2024-00



# OMCR®

STANDARD DIE COMPONENTS

OMCR®
STANDARD DIE COMPONENTS

www.omcr.it

# INDEX

OMCR


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## THE COMPANY - UNTERNEHMEN - L'AZIENDA

GB Almost 40 years ago, **OMCR** started its activity of precision engineering with the object of **'Customer Satisfaction'** as its main target. Since then, having gained much experience in many fields of engineering **OMCR** has been concentrating its efforts in the production of standard die components for the automotive industry becoming step by step a point of reference for the most important die manufacturers. Quality is the main thread of **OMCR**'s activities: competence, engineering, flexibility of production, precise organisation and responsibility are the cornerstones of the services the company offers. Our greatest strength is the passion we put at the disposal of our customers and to whom we are fully dedicated to resolve their problems and fulfil their needs. **OMCR is the partner who helps make your company competitive.**

D Vor fast 40 Jahren wurde die Firma **OMCR** als Werkstatt für mechanische Bearbeitungen und Präzisionsarbeiten aller Art gegründet. Von Anfang an steht die **Zufriedenheit der Kunden** im Mittelpunkt. Nach umfangreichen Erfahrungen in diversen Bereichen der Mechanik spezialisiert sich die Firma OMCR im Laufe der Zeit auf die Herstellung von Normalien für Großwerkzeuge nach Automobilherstellernorm und wird nach und nach zu einem Referenzpunkt für alle wichtigen Werkzeugbauer. Die Qualität steht im Zentrum aller Aktivitäten von OMCR: Kompetenz, Engineering, flexible Herstellungssysteme, akkurate Organisation und Verantwortung sind die Basis der Serviceleistungen von **OMCR**. Unsere größte Stärke ist das Engagement, mit dem wir unseren Kunden zur Verfügung stehen und mit dem wir uns täglich der Lösung der Probleme unserer Kunden widmen, um all Ihre Bedürfnisse abzudecken. **OMCR, ein Partner der Sie wettbewerbsfähig macht**.

I Quasi 40 anni fa **OMCR** iniziò la sua attività di lavorazioni meccaniche di precisione e fin dalle origini pose al centro delle sue attenzioni **"la soddisfazione del cliente"**. Dopo aver maturato innumerevoli esperienze in svariati settori della meccanica nel corso degli anni la **OMCR** si specializza nella produzione di normalizzati per stampi in lamiera per l'automotive, diventando progressivamente un punto di riferimento per tutti i più importanti costruttori di stampi. La qualità è il filo conduttore di tutte le attività **OMCR**: competenza, engineering, sistemi di produzione flessibili, organizzazione accurata e responsabilità, sono i cardini del servizio offerto. La nostra forza maggiore è la passione che mettiamo a disposizione dei nostri clienti e con la quale ci dedichiamo quotidianamente a risolvere i loro problemi ed adempiere alle loro necessità. **OMCR, un partner che Vi rende competitivi**.

*"Your partner"*



**Domenico Zentilin**
OMCR Founder



## THE COMPANY - UNTERNEHMEN - L'AZIENDA

*CAD Design and Co-Engineering*



*Customer Service*



*Flexible manufacturing systems*



*Miniload System*



*Eco-Friendly*



## PAGE ORGANIZATION
## LEGENDE
## ORGANIZZAZIONE PAGINE

Article Nr./reference of specification
Artikelnummer oder Referenznorm
Codice articolo o norma di riferimento — 01

Order example
Bestellbeispiel
Esempio d'ordine — 02

Material information
Materialinformationen
Informazioni sui materiali — 03

Informations
Informationen
Informazioni — 04

Application example
Einbaubeispiele
Esempio di applicazione — 05

Item description
Artikelbeschreibung
Descrizione articolo — 06

Warning/technical information
Technische Hinweise oder Informationen
Avvertenze o informazioni tecniche — 07

Technical - dimension table
Tabelle techn. Angaben und Maße
Tabella tecnico - dimensionale — 08

## SYMBOLOGY
## SYMBOLIK
## SIMBOLOGIA

Product available on stock
Produkt auf Lager
Prodotto disponibile a magazzino




Prices and delivery time on request
Preis und Lieferzeit auf Anfrage
Prezzi e tempi di consegna a richiesta



Delivery time in working days from ordering date
Lieferzeit in Werktagen ab Bestelldatum
Giorni lavorativi per spedizione dalla data d'ordine




Item supplied with shown parts
Artikel setzt sich aus den angegebenen Teilen zusammen
Articolo fornito con i particolari indicati



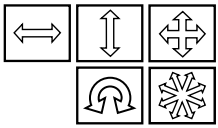
Ordering code
Bestellnummer
Codice d'ordine




Pay attention to this point!
Wir weisen besonders auf diesen Punkt hin
Attenzione a questa nota



Sliding direction
Gleitrichtung
Senso di scorrimento



Obtained from press-forged
Geschmiedet
Particolare ricavato da stampato



CAD files available on our website
CAD-Datei auf unserer Webseite
File CAD disponibili sul nostro sito web




Technical info available on our website
Technische Informationen auf unserer Webseite
Info disponibili sul nostro sito web



Purchase order of spare parts
Bestellung Ersatzteile
Ordine ricambi



CE manual available on our website
CE Betriebsanleitungen auf unserer Internetseite verfügbar
Manuali CE disponibili sul nostro sito web

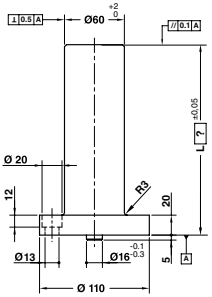


01

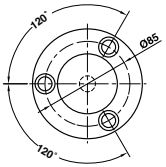
C12.11.?

OMCR

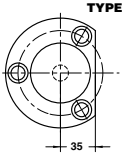
06 AIR PIN - UNTERLUFTBOLZEN - CANDELA

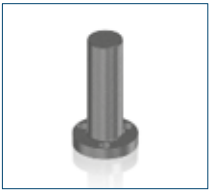



TYPE 01




TYPE 02



Standard OMCR

10 | WEB

04

⚠
Lmax = 450 mm

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

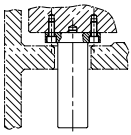
07

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

03

**Application example**



05

| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.11. | 01 | 220 |

02

| OMCR CODE | TYPE | Max Load (kN) |
|---|---|---|
| C12.11. | 01 | 80 |
| C12.11. | 02 | 80 |

08

53

INDEX

## (GB) DOWNLOAD CAD DATA

On our website, **www.omcr.it** you can find, besides CAD 3D (CATIA V5, STEP) data, specific technical information, **use and maintenance manuals** for Lifting Elements complete with **declaration of EC conformity** and the digital **catalogue in PDF format**.

## (D) DOWNLOAD SCHIEBERDATEN

Auf **www.omcr.it** finden Sie abgesehen von den **3D CAD Daten** (CATIA V5, STEP) auch spezifische technische Informationen, die **Betriebsund Instandhaltungsanleitung** der **Tragelemente mit CE Konformitätserklärung**, unseren **Katalog als pdf-Datei** und Eine Suchmaschine.

## (I) DOWNLOAD DATI CAMME

Su **www.omcr.it** è possibile trovare, oltre ai **dati CAD 3D** (CATIA V5, STEP), informazioni tecniche specifiche, i **manuali di uso e manutenzione** degli Elementi di Sollevamento completi di **dichiarazione di conformità CE** e il **catalogo digitale in formato PDF**.




Catalog - CAD files - Technical info - CE Manual
Katalog - CAD Daten - Technische Informationen - Manuali CE
Cataloghi - Dati CAD - Info tecniche - Manuali CE

Download from our web-site all the information about OMCR Cam Units.

Alle Informationen über Schieber von OMCR können Sie von unserer Internetseite downloaden.

Scarica dal nostro sito web tutte le informazioni sulle Unità a Camme OMCR.

### (GB) CAM SEARCH

By consulting the search engine on our website, you can choose the most suitable cam units for most types of project through information regarding **forces**, **delivery times and prices**.

### (D) SCHIEBERSUCHE

Über die Suchmaschine auf unserer Internetseite können Sie den für das jeweilige Projekt am besten geeigneten Schieber anhand von Informationen zu **Kraft**, **Preis** und **Lieferzeit auswählen**.

### (I) RICERCA CAMME

Consultando il motore di ricerca sul nostro sito, puoi scegliere l'unità a camma più adatta ad ogni tipo di progetto attraverso informazioni di **forza**, **prezzo** e **tempi di consegna**.




Visit the Cam Search page on our website.

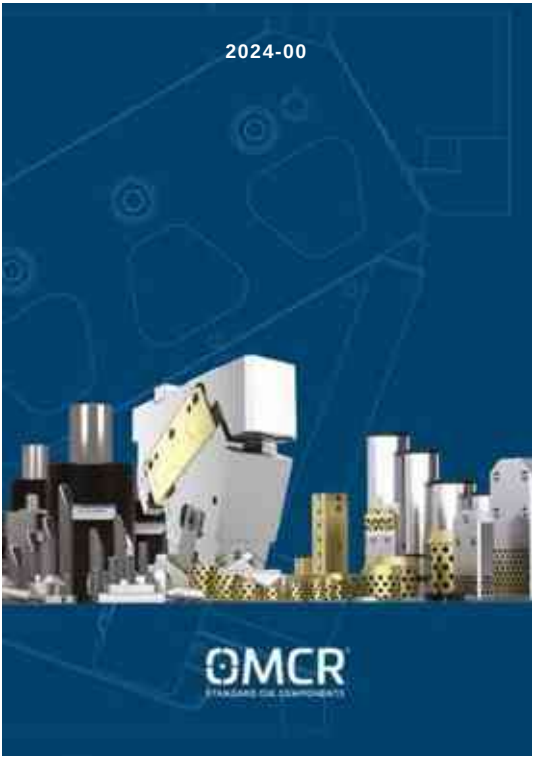
Bitte gehen Sie auf unsere Internetseite und klicken Sie auf „Schiebersuche".

Visita la pagina Ricerca Camme sul nostro sito web.

(GB) Our **PDF online catalogue** is constantly updated.

(D) Den **Katalog als PDF-Datei** zum herunterladen oder online konsultieren.

(I) Il **catalogo in versione PDF** consultabile online e periodicamente aggiornato.




2024-00
YEAR RELEASE

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# Die Components OMCR
# OMCR Normalien
# Componenti OMCR

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

# Die Components
# Werkzeugkomponenten
# Componenti per Stampi

GB **OMCR**'s line of die components offers an extraordinary variety of items meeting the standards of the leading automotive manufacturers. Thanks to the widespread use of computerised management systems, flexible production systems and wide availability of items in stock, this range of products meets the majority of customers needs and ensures quality, reliability and quick delivery. In this **Die Components** range we offer the **OMCR Standard** series, results of a selection which has allowed us to identify the ideal standard items for an efficient design and manufacture of dies for working sheet metal.

D Die Linie der **Werkzeugkomponenten** bietet eine außergewöhnliche Vielfalt an Artikeln, die den Normen der europäischen Automobilhersteller entsprechen. Dank der EDV-gestützten Steuerung des Unternehmens, flexibler Produktionssysteme und durch einen großen Bestand an fertigen Produkten im Lager deckt diese Produktreihe den Bedarf der Kunden in vollem Umfang ab und gewährleistet Qualität, Zuverlässigkeit und schnelle Lieferung.
Unsere **Werkzeugkomponenten** beinhalten auch die Serie **Standard OMCR**, eine Auswahl an Normalien zur effizienten Konstruktion von Stanzwerkzeugen.

I La linea **Componenti per Stampi** offre una straordinaria varietà di articoli, conformi alle normative delle principali case automobilistiche. Grazie al diffuso utilizzo di sistemi informatici di gestione, di sistemi di produzione flessibili e all'ampia disponibilità di prodotti pronti a magazzino, questa gamma di prodotti risponde in modo esauriente alle necessità dei clienti e garantisce qualità, affidabilità e rapidità nelle consegne.
All'interno della linea **Componenti per Stampi**, proponiamo la serie **Standard OMCR**, frutto di una selezione che ha permesso di individuare i normalizzati ideali per un'efficiente progettazione di stampi lavorazione lamiere.





# OMCR®

STANDARD DIE COMPONENTS



| C10.09 | C10.10 | C10.11 | C10.12 | C10.13 |
|---|---|---|---|---|
|  |  |  |  |  |
| BMW-MERCEDES-BENZ-FCA-FORD-OPEL-VW/AUDI | BMW-MERCEDES-BENZ-FCA-FORD-OPEL-VW/AUDI | | | MERCEDES-BENZ |
| Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito | Gage<br>Einweiser<br>Riferimento | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore | Gage<br>Einweiser<br>Riferimento | Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito |
| 20 | 21 | 22 | 23 | 24 |

| C10.14 | C10.15 | C10.16 | C10.18 | C10.20 |
|---|---|---|---|---|
|  |  |  |  |  |
| MERCEDES-BENZ | BMW - FCA | VW/AUDI | BMW - MERCEDES-BENZ | FCA - OPEL |
| Gage<br>Einweiser<br>Riferimento | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore | Gage<br>Feineinweiser<br>Riferimento di precisione | Gage<br>Einweiser<br>Riferimento | Front gage<br>Einlaufanschlag<br>Portasensore |
| 24 | 25 | 26 | 27 | 28 |

| C10.25 | C10.30 | C10.90 | C10.91 | C10.92 |
|---|---|---|---|---|
|  |  |  |  |  |
| VW/AUDI | | | | |
| Support for sensor<br>Lagekontrolle für Platinen<br>Supporto sensore | Gage<br>Einweiser<br>Riferimento | Sensor<br>Induktive sensor<br>Sensore | Connector<br>Steckverbinder<br>Connettore | Sensor<br>Induktive sensor<br>Sensore |
| 29 | 31 | 32 | 33 | 34 |

| C10.95 | C11.08 | C11.09 | C11.11 | C11.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| FORD - VW/AUDI | | FCA - VW/AUDI | FCA - VW/AUDI | FCA |
| Plate for sensor<br>Halterung<br>Piastrina portasensore | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Locating pin<br>Zentrierbolzen<br>Perno di centraggio |
| 35 | 36 | 38 | 40 | 42 |

| C11.15 | C11.20 | C11.30 | C11.31 | C11.32 |
|---|---|---|---|---|
|  |  |  |  |  |
| BMW | BMW - VW/AUDI | VW/AUDI | FCA | FCA |
| Locating pin<br>Zentrierbolzen<br>Perno di centraggio | Locating pin<br>Zentrierbolzen<br>Perno di centraggio | Visual locator setting punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Adjustment plate<br>Scheibe<br>Rondella di registro |
| 42 | 43 | 44 | 45 | 46 |

| C11.33 | C11.40 | C11.45 | C11.50 | C11.51 |
|---|---|---|---|---|
|  |  |  |  |  |
| FORD | FCA-PSA-RENAULT | FCA-PSA-RENAULT | FCA-PSA-RENAULT | FCA - PSA - RENAULT |
| Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Stamp retainer<br>Halteplatte<br>Portatimbri | Backing plate<br>Druckplatte<br>Reazione | Stamp<br>Buchstabenstempel<br>Punzone marchio | Stamp<br>Buchstabenstempel<br>Punzone marchio |
| 46 | 47 | 48 | 49 | 50 |

| C12.10.? | C12.11.? | C12.11.? | C12.12 | C12.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| BMW - FORD - OPEL | VW/AUDI | VW/AUDI | BMW - MERCEDES BENZ | BMW - MERCEDES BENZ |
| Air pin<br>Druckbolzen<br>Candela | Air pin<br>Unterluftbolzen<br>Candela | Air pin<br>Unterluftbolzen<br>Candela | Air pin<br>Unterluftbolzen<br>Candela | Air pin<br>Unterluftbolzen<br>Candela |
| 51 | 52 | 53 | 54 | 55 |

| C12.12 | C12.12.? | C12.16 | C12.20 | C12.21 |
|---|---|---|---|---|
|  |  |  |  |  |
| BMW - MERCEDES BENZ | BMW - MERCEDES BENZ | BMW<br>VW/AUDI | FCA | |
| Air pin<br>Unterluftbolzen<br>Candela | Air pin<br>Unterluftbolzen<br>Candela | Spacer plate toothed<br>Distanzplatte gezahnt<br>Tassello di compensazione | Compensation block<br>Abstandsblock<br>Tassello di compensazione | Shim<br>Ausgleichscheib<br>Spessore |
| 56 | 57 | 58 | 59 | 59 |

| C12.22 | C12.23 | C12.24 | C12.25 | C12.26 |
|---|---|---|---|---|
|   |   |   |  |  |
| VW/AUDI | VW/AUDI | BMW - FCA - MERCEDES-BENZ | FORD | VW/AUDI |
| Pressure plate<br>Druckplatte<br>Piastra di reazione | Pressure plate<br>Druckplatte<br>Piastra di reazione | Pressure plate<br>Druckplatte<br>Piastra di reazione | Balance block<br>Distanzstück<br>Distanziale | Balance block<br>Distanzstück<br>Distanziale |
| 60 | 61 | 62 | 63 | 64 |

| C12.26.? | C12.27 | C12.27.? | C12.28 | C12.30 |
|---|---|---|---|---|
|  |  |  |   |  |
| VW/AUDI | VW/AUDI | VW/AUDI | PSA | VW/AUDI |
| Balance block<br>Distanzstück<br>Distanziale | Balance block<br>Distanzstück<br>Distanziale | Balance block<br>Distanzstück<br>Distanziale | Balance block<br>Distanzstück<br>Distanziale | Spacing bar<br>Abstellbolzen<br>Distanziale |
| 66 | 68 | 70 | 72 | 74 |

| C12.30.? | C13.10 | C13.11 | C13.20.? | C13.24 |
|---|---|---|---|---|
|   |  |  |  |  |
| VW/AUDI | VW/AUDI | VW/AUDI | FCA - FORD | |
| Spacing bar<br>Abstellbolzen<br>Distanziale | Pad retainer pin VDI 3365<br>Steckbolzen VDI 3365<br>Perno di arresto VDI 3365 | Pad retainer pin VDI 3365<br>Steckbolzen VDI 3365<br>Perno di arresto VDI 3365 | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Ground collar screw<br>Schraube mit distanzrohr<br>Vite con colletto |
| 76 | 78 | 79 | 80 | 82 |

| C13.25.? | C13.26.? | C13.27 | C13.30 | C14.09 |
|---|---|---|---|---|
|  |  |  |  |  |
| | FORD | BMW - VW/AUDI | | VW/AUDI |
| Pad retainer<br>Halteelement<br>Gruppo tirante | Pad retainer<br>Halteelement<br>Gruppo tirante | Anti-rebound pad retainer<br>Halteelement mit Dämpfung<br>Gruppo tirante antirimbalzo | Collar screw<br>Schulter-passschraube<br>Vite con colletto | Key<br>Passfeder<br>Chiavetta di reazione |
| 84 | 84 | 85 | 88 | 89 |

| C14.10 | C14.11 | C14.20 | C14.25 | C14.28 |
|---|---|---|---|---|
|  |  |  |  |  |
| FCA | VW/AUDI | | | VW/AUDI |
| Key<br>Passfeder<br>Chiavetta di reazione | Retainer<br>Haltestück<br>Ritegno per matrice | Key<br>Passfeder<br>Chiavetta di reazione | Key<br>Passfeder<br>Chiavetta di reazione | Key<br>Passfeder<br>Chiavetta |
| 90 | 90 | 91 | 92 | 93 |

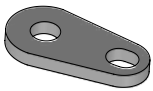
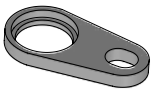
| C14.30 | C15.10 | C15.11 | C15.12 | C15.13 |
|---|---|---|---|---|
|  |  |  |  |  |
| VW/AUDI | FCA | FCA | FCA | FCA |
| Locating block<br>Fangbacke<br>Tassello di centraggio | Clamp<br>Befestigungselement<br>Morsetto | Sleeve<br>Führungseinheit<br>Canotto guida | Guide post<br>Führungssaule<br>Colonna | Union nut<br>Befestigungselement<br>Dado di unione |
| 94 | 95 | 95 | 96 | 97 |

| C15.14 | C15.15 | C16.18 | C16.19 | C16.20 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | VW/AUDI | VW/AUDI | VW/AUDI |
| Air coupling bracket<br>Luftanschlussblock<br>Supporto innesti rapidi | Flux control<br>Verteilerblock<br>Regolatore di flusso | Roller<br>Rolle<br>Rotella | Roller<br>Rolle<br>Rotella | Roller stock lifter<br>Federnde laufrolle<br>Rullino sollevamento nastro |
| 98 | 99 | 100 | 100 | 101 |

| C16.20 | C16.21 | C16.25 | C16.26 | C16.27 |
|---|---|---|---|---|
|  |  |  |  |  |
| VW/AUDI | FCA | | FCA | BMW - MERCEDES-BENZ |
| Roller stock lifter<br>Federnde laufrolle<br>Rullino sollevamento nastro | Roller group<br>Förderrolle<br>Gruppo rullini | Coil support<br>Abstreifer<br>Sollevatore nastro | Ball caster<br>Kugelrollensystem<br>Sfera portante | Coil guide roller<br>Führungsrolle<br>Guida nastro |
| 102 | 103 | 104 | 105 | 106 |

| C16.30 | C16.31 | C16.40 | C16.45 | C16.50 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | FCA | | VW/AUDI |
| Flange lifter<br>Abstreifer<br>Sflangiatore | Flange lifter<br>Abstreifer<br>Sflangiatore | Spring plunger<br>Federne druckstücke<br>Espulsore a molla | Spring plunger<br>Federne druckstücke<br>Espulsore a molla | Spring rams<br>Federbolzen<br>Sollevatore |
| 107 | 108 | 109 | 110 | 111 |

| C17.10 | C17.11 | C17.15 | C17.16 | C17.17 |
|---|---|---|---|---|
|  |  |  |  |  |
| FCA - PSA | | | | |
| Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Elastomer stripper<br>Abstreifer<br>Estrattore per punzoni | Washer<br>Scheibe<br>Rondella | Elastomer spring<br>Elastomerfeder<br>Molla in elastomero |
| 112 | 115 | 118 | 118 | 119 |

| C17.18 | C17.19 | C17.20 | C17.21 | C17.27 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | FCA - PSA | OPEL | BMW - VW/AUDI |
| Stripping unit - Pressure plate<br>Abstreifer - Druckplatte<br>Piastra premente dell'estrattore | Stripping unit - Mounting plate<br>Abstreifer - Halteplatte<br>Piastra di fissaggio dell'estrattore | Elastomer cap<br>Elastomerdruckstück<br>Puntalino in elastomero | Shock absorber<br>Halteelement<br>Ammortizzatore | Anti-rebound elastomer<br>Dämpfungselement<br>Ammortizzatore antirimbalzo |
| 120 | 120 | 121 | 121 | 122 |

| C17.30 | C17.31 | C17.32 | C17.40 | C17.51 |
|---|---|---|---|---|
|  |  |  |  |  |
| FCA | | | FCA - VW/AUDI | VW/AUDI - BMW |
| Elastomer spring pin<br>Aufnahmebolzen<br>Perno per molle in elastomero | Washer for elastomer spring<br>Federscheibe<br>Rondella per molle in elastomero | Column DIN 9835<br>Führungsbolzen DIN 9835<br>Colonna di guida DIN 9835 | Stripper for blanking dies<br>Abstreifer für Platinenschnitte<br>Estrattore per stampi | Anti-rebound elastomer<br>Dämpfungselement<br>Ammortizzatore antirimbalzo |
| 123 | 124 | 125 | 126 | 127 |

| C17.52 | C18.05 | C18.06 | C18.07 | C18.10 |
|---|---|---|---|---|
|  |  |   |   |  |
| BMW | BMW - VW/AUDI | VW/AUDI | BMW - VW/AUDI | FCA |
| Anti-rebound elastomer<br>Dämpfungselement<br>Ammortizzatore antirimbalzo | Anti-rebound slide stop<br>Arretierung gegen Rückfederung<br>Arresto anti rimbalzo | Slide stop block<br>Schieberanschlag<br>Arresto slitta | Anti-rebound slide stop<br>Arretierung gegen Rückfederung<br>Arresto anti rimbalzo | Slide stop block<br>Schieberanschlag<br>Arresto slitta |
| 128 | 129 | 130 | 131 | 132 |

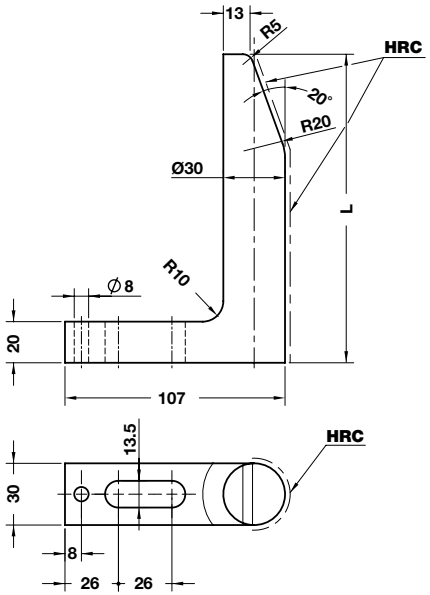
| C18.11 | C18.12 | C18.20.? | C18.21 | C18.25 |
|---|---|---|---|---|
|  |   |  |  |  |
| VW/AUDI | VW/AUDI | FCA | FCA | |
| Slide stop block<br>Schieberanschlag<br>Arresto slitta | Slide stop block<br>Schieberanschlag<br>Arresto slitta | Positive return plate<br>Zwangsrückholer<br>Gancio di sicurezza | Key<br>Passfeder<br>Chiavetta | Cam blank-holder guide<br>Gleitplatte für Schieber<br>Guida per premilamiera |
| 132 | 133 | 134 | 135 | 136 |

| C18.30 | C18.31 |
|---|---|
|  |  |
| FORD | FCA |
| Coupling plate<br>Befestigungsplatte<br>Staffa di reazione | Coupling nut<br>Kupplungsmutter<br>Aggancio staffa |
| 137 | 138 |



MAIN INDEX

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 56÷60

WEB

Delivery time
Lieferzeit in Werktagen
Tempi di spedizione

STOCK = ●

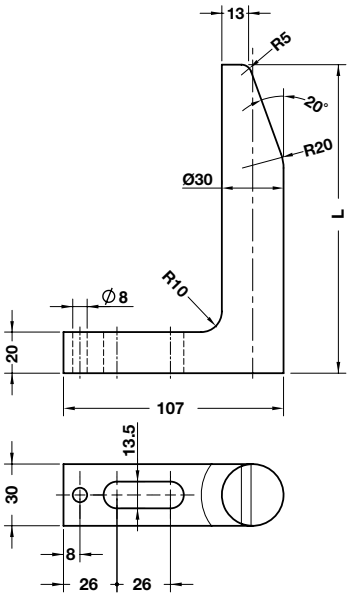
10 = ○

| ORDER EXAMPLE | Art. | L=70 |
|---|---|---|
| | C10.09. | 070 |

| OMCR CODE | L | Delivery Time | OMCR CODE | L | Delivery Time | OMCR CODE | L | Delivery Time |
|---|---|---|---|---|---|---|---|---|
| C10.09.065 | 65 | ● | C10.09.145 | 145 | ○ | C10.09.225 | 225 | ○ |
| C10.09.070 | 70 | ○ | C10.09.150 | 150 | ● | C10.09.230 | 230 | ○ |
| C10.09.075 | 75 | ○ | C10.09.155 | 155 | ○ | C10.09.235 | 235 | ○ |
| C10.09.080 | 80 | ○ | C10.09.160 | 160 | ○ | C10.09.240 | 240 | ○ |
| C10.09.085 | 85 | ○ | C10.09.165 | 165 | ○ | C10.09.245 | 245 | ○ |
| C10.09.090 | 90 | ● | C10.09.170 | 170 | ○ | C10.09.250 | 250 | ● |
| C10.09.095 | 95 | ○ | C10.09.175 | 175 | ○ | C10.09.260 | 260 | ○ |
| C10.09.100 | 100 | ○ | C10.09.180 | 180 | ● | C10.09.270 | 270 | ○ |
| C10.09.105 | 105 | ○ | C10.09.185 | 185 | ○ | C10.09.280 | 280 | ○ |
| C10.09.110 | 110 | ○ | C10.09.190 | 190 | ○ | C10.09.290 | 290 | ○ |
| C10.09.115 | 115 | ○ | C10.09.195 | 195 | ○ | C10.09.300 | 300 | ● |
| C10.09.120 | 120 | ● | C10.09.200 | 200 | ○ | C10.09.310 | 310 | ○ |
| C10.09.125 | 125 | ○ | C10.09.205 | 205 | ○ | C10.09.320 | 320 | ○ |
| C10.09.130 | 130 | ○ | C10.09.210 | 210 | ○ | C10.09.330 | 330 | ○ |
| C10.09.135 | 135 | ○ | C10.09.215 | 215 | ○ | C10.09.340 | 340 | ○ |
| C10.09.140 | 140 | ○ | C10.09.220 | 220 | ○ | C10.09.350 | 350 | ● |

## GAGE - EINWEISER - RIFERIMENTO








**Notes**

**Material:** CK60

WEB

Delivery time
Lieferzeit in Werktagen
Tempi di spedizione

STOCK = ●

10 = ○

| ORDER EXAMPLE | Art. | L=70 |
|---|---|---|
| | C10.10. | 070 |

| OMCR CODE | L | Delivery Time |
|---|---|---|
| C10.10.065 | 65 | ● |
| C10.10.070 | 70 | ○ |
| C10.10.075 | 75 | ○ |
| C10.10.080 | 80 | ○ |
| C10.10.085 | 85 | ○ |
| C10.10.090 | 90 | ● |
| C10.10.095 | 95 | ○ |
| C10.10.100 | 100 | ○ |
| C10.10.105 | 105 | ○ |
| C10.10.110 | 110 | ○ |
| C10.10.115 | 115 | ○ |
| C10.10.120 | 120 | ● |
| C10.10.125 | 125 | ○ |
| C10.10.130 | 130 | ○ |
| C10.10.135 | 135 | ○ |
| C10.10.140 | 140 | ○ |

| OMCR CODE | L | Delivery Time |
|---|---|---|
| C10.10.145 | 145 | ○ |
| C10.10.150 | 150 | ● |
| C10.10.155 | 155 | ○ |
| C10.10.160 | 160 | ○ |
| C10.10.165 | 165 | ○ |
| C10.10.170 | 170 | ○ |
| C10.10.175 | 175 | ○ |
| C10.10.180 | 180 | ● |
| C10.10.185 | 185 | ○ |
| C10.10.190 | 190 | ○ |
| C10.10.195 | 195 | ○ |
| C10.10.200 | 200 | ○ |
| C10.10.205 | 205 | ○ |
| C10.10.210 | 210 | ○ |
| C10.10.215 | 215 | ○ |
| C10.10.220 | 220 | ○ |

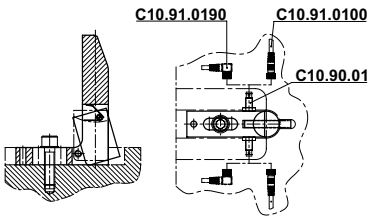
| OMCR CODE | L | Delivery Time |
|---|---|---|
| C10.10.225 | 225 | ○ |
| C10.10.230 | 230 | ○ |
| C10.10.235 | 235 | ○ |
| C10.10.240 | 240 | ○ |
| C10.10.245 | 245 | ○ |
| C10.10.250 | 250 | ● |
| C10.10.260 | 260 | ○ |
| C10.10.270 | 270 | ○ |
| C10.10.280 | 280 | ○ |
| C10.10.290 | 290 | ○ |
| C10.10.300 | 300 | ● |
| C10.10.310 | 310 | ○ |
| C10.10.320 | 320 | ○ |
| C10.10.330 | 330 | ○ |
| C10.10.340 | 340 | ○ |
| C10.10.350 | 350 | ● |

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

### Notes

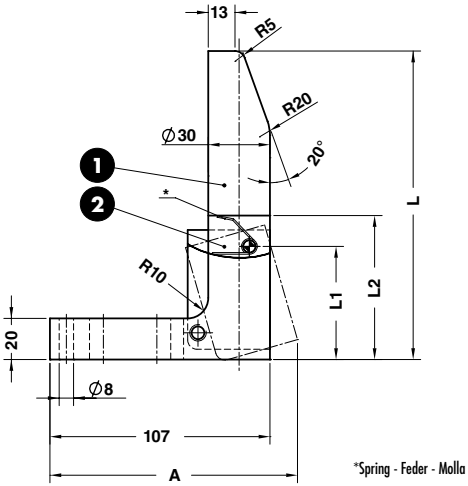
1. **Material:** CK60
   **HRC:** 50÷55
2. **Material:** St37

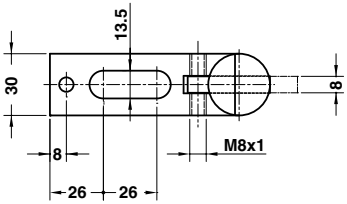
### Application example






STOCK | ... | WEB



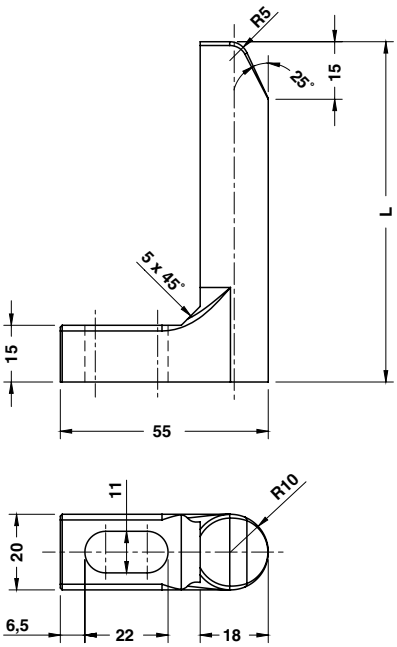




| ORDER EXAMPLE | Art. | L=180 |
|---|---|---|
| | C10.11. | 180 |

| OMCR CODE | A | L | L1 | L2 |
|---|---|---|---|---|
| C10.11.120 | 120 | 120 | 55 | 70 |
| C10.11.150 | 120 | 150 | 55 | 70 |
| C10.11.180 | 124 | 180 | 105 | 120 |
| C10.11.250 | 124 | 250 | 105 | 120 |

## GAGE - EINWEISER - RIFERIMENTO








STOCK | WEB

**Notes**

**Material:** CK45

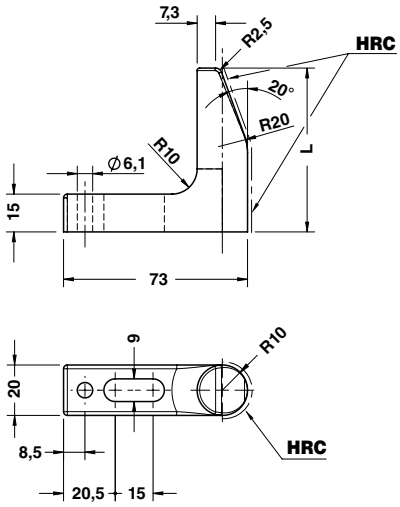
| ORDER EXAMPLE | Art. | L=90 |
|---|---|---|
| | C10.12. | 090 |

| OMCR CODE | L |
|---|---|
| C10.12.055 | 55 |
| C10.12.065 | 65 |
| C10.12.090 | 90 |
| C10.12.095 | 95 |
| C10.12.120 | 120 |

# C10.13

OMCR

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






STOCK | 3D WEB

**Notes**

**Material:** CK60 - **HRC:** 58÷60

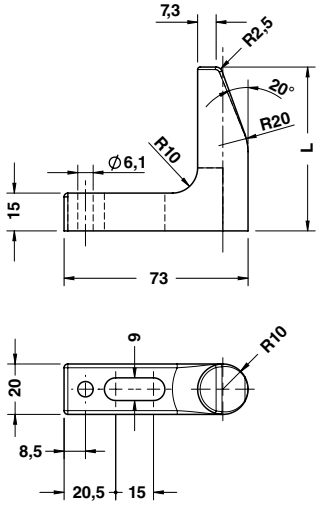
| ORDER EXAMPLE | Art. | L=65 |
|---|---|---|
| | C10.13. | 065 |

| OMCR CODE | L |
|---|---|
| C10.13.065 | 65 |
| C10.13.090 | 90 |

# C10.14

OMCR

## GAGE - EINWEISER - RIFERIMENTO






STOCK | 3D WEB

**Notes**

**Material:** CK60

| ORDER EXAMPLE | Art. | L=65 |
|---|---|---|
| | C10.14. | 065 |

| OMCR CODE | L |
|---|---|
| C10.14.065 | 65 |
| C10.14.090 | 90 |

# GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

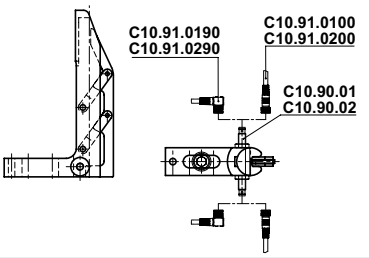


## Notes

1
**Material:** CK60

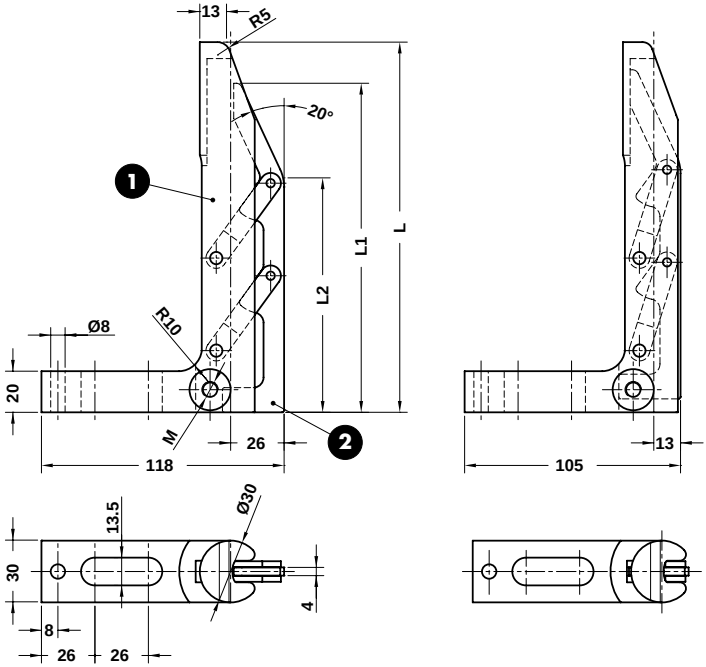
2
**Material:** St37 - **HRC:** 58÷60

## Application example





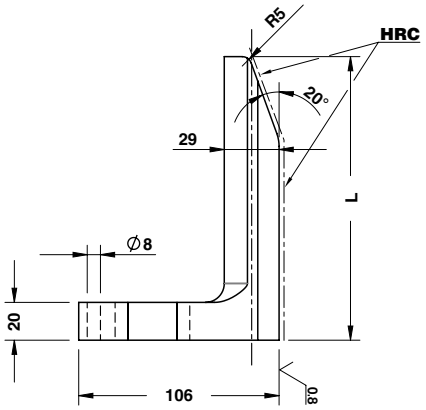

STOCK ... WEB

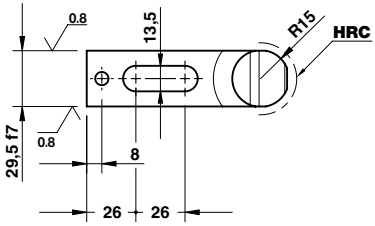



| ORDER EXAMPLE | Art. | L=120 | L1=113 | M=8x1 |
|---|---|---|---|---|
| | C10.15. | 120 | 113 | 08 |

| OMCR CODE | L | L1 | L2 | M |
|---|---|---|---|---|
| C10.15.12011308 | 120 | 113 | 78 | 8x1 |
| C10.15.12011312 | 120 | 113 | 78 | 12x1 |
| C10.15.15013008 | 150 | 130 | 90 | 8x1 |
| C10.15.15013012 | 150 | 130 | 90 | 12x1 |
| C10.15.18016008 | 180 | 160 | 114 | 8x1 |
| C10.15.18016012 | 180 | 160 | 114 | 12x1 |
| C10.15.25016008 | 250 | 160 | 114 | 8x1 |
| C10.15.25016012 | 250 | 160 | 114 | 12x1 |
| C10.15.25023008 | 250 | 230 | 184 | 8x1 |
| C10.15.25023012 | 250 | 230 | 184 | 12x1 |

## PRECISION GAGE - FEINENWEISER - RIFERIMENTO DI PRECISIONE






**Notes**

**Material:** CK60 - **HRC:** 58÷60

WEB

Delivery time
Lieferzeit in Werktagen
Tempi di spedizione

STOCK = ●

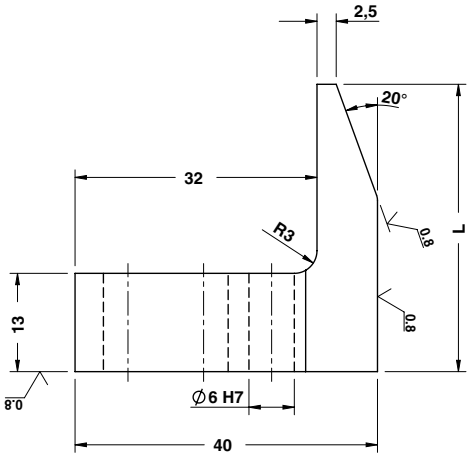
15 = ○

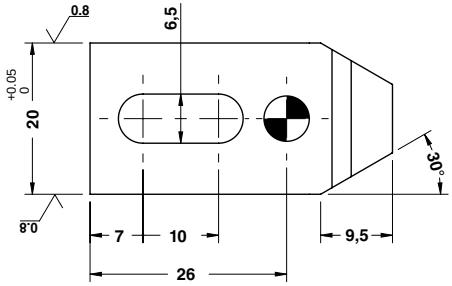
| ORDER EXAMPLE | Art. | L=70 |
|---|---|---|
| | C10.16. | 070 |

| OMCR CODE | L | Delivery Time | OMCR CODE | L | Delivery Time | OMCR CODE | L | Delivery Time |
|---|---|---|---|---|---|---|---|---|
| C10.16.065 | 65 | ● | C10.16.145 | 145 | ○ | C10.16.225 | 225 | ○ |
| C10.16.070 | 70 | ○ | C10.16.150 | 150 | ● | C10.16.230 | 230 | ○ |
| C10.16.075 | 75 | ○ | C10.16.155 | 155 | ○ | C10.16.235 | 235 | ○ |
| C10.16.080 | 80 | ○ | C10.16.160 | 160 | ○ | C10.16.240 | 240 | ○ |
| C10.16.085 | 85 | ○ | C10.16.165 | 165 | ○ | C10.16.245 | 245 | ○ |
| C10.16.090 | 90 | ● | C10.16.170 | 170 | ○ | C10.16.250 | 250 | ● |
| C10.16.095 | 95 | ○ | C10.16.175 | 175 | ○ | C10.16.260 | 260 | ○ |
| C10.16.100 | 100 | ○ | C10.16.180 | 180 | ● | C10.16.270 | 270 | ○ |
| C10.16.105 | 105 | ○ | C10.16.185 | 185 | ○ | C10.16.280 | 280 | ○ |
| C10.16.110 | 110 | ○ | C10.16.190 | 190 | ○ | C10.16.290 | 290 | ○ |
| C10.16.115 | 115 | ○ | C10.16.195 | 195 | ○ | C10.16.300 | 300 | ● |
| C10.16.120 | 120 | ● | C10.16.200 | 200 | ○ | C10.16.310 | 310 | ○ |
| C10.16.125 | 125 | ○ | C10.16.205 | 205 | ○ | C10.16.320 | 320 | ○ |
| C10.16.130 | 130 | ○ | C10.16.210 | 210 | ○ | C10.16.330 | 330 | ○ |
| C10.16.135 | 135 | ○ | C10.16.215 | 215 | ○ | C10.16.340 | 340 | ○ |
| C10.16.140 | 140 | ○ | C10.16.220 | 220 | ○ | C10.16.350 | 350 | ● |

## GAGE - EINWEISER - RIFERIMENTO








STOCK

3D WEB

### Notes

**Material:** 21MnCr5 - **HRC:** 58÷60

| ORDER EXAMPLE | Art. | L=38 |
|---|---|---|
| | C10.18. | 038 |

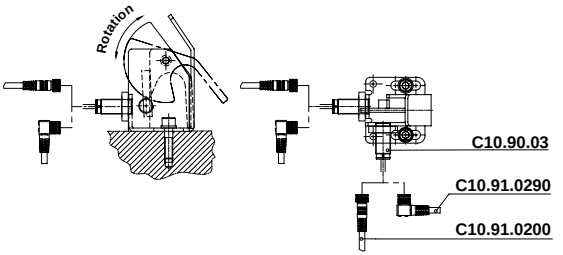
| OMCR CODE | L |
|---|---|
| C10.18.028 | 28 |
| C10.18.038 | 38 |
| C10.18.048 | 48 |
| C10.18.058 | 58 |
| C10.18.068 | 68 |
| C10.18.078 | 78 |
| C10.18.088 | 88 |

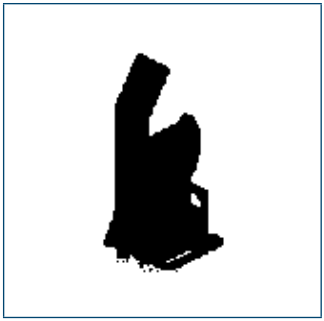
## FRONT GAGE - EINLAUFANSCHLAG - PORTASENSORE

### Notes

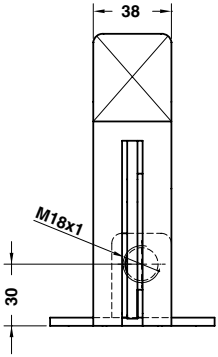
**Material:** St37

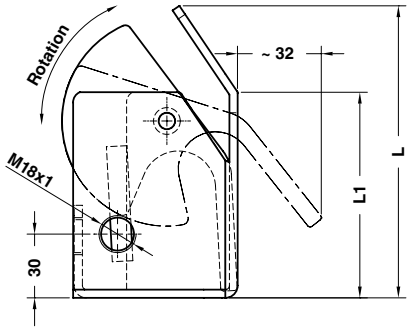
### Application example

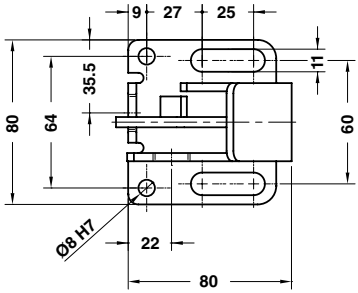


STOCK 3D WEB




| ORDER EXAMPLE | Art. | L=142 |
|---|---|---|
| | C10.20. | 142 |

| OMCR CODE | L | L1 |
|---|---|---|
| C10.20.117 | 117 | 75 |
| C10.20.142 | 142 | 100 |
| C10.20.192 | 192 | 150 |

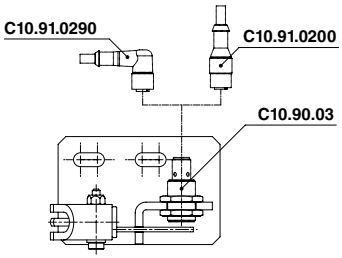
## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



### Notes

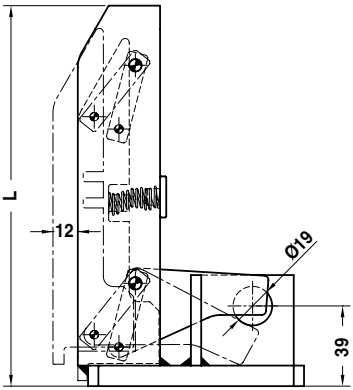
**Material:** Steel

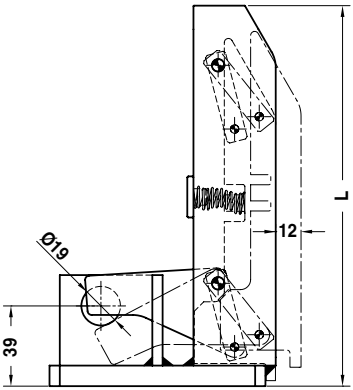
### Application example



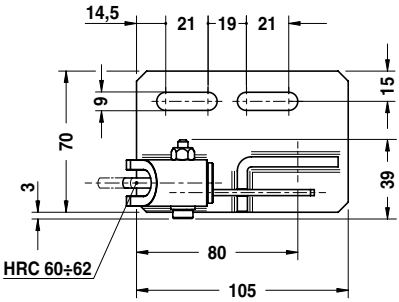



STOCK 3D WEB

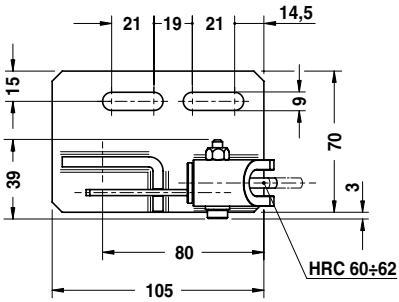



**FORM A**




**FORM B**




ORDER EXAMPLE

| Art. | TYPE |
|---|---|
| C10.25. | 01 |

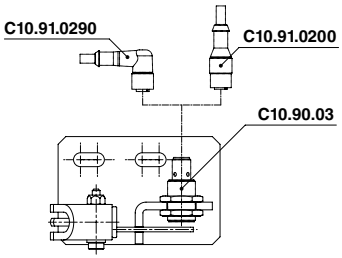
| OMCR CODE | TYPE | L | FORM |
|---|---|---|---|
| C10.25.01 | 01 | 145 | A |
| C10.25.02 | 02 | 145 | B |
| C10.25.03 | 03 | 185 | A |
| C10.25.04 | 04 | 185 | B |
| C10.25.25 | 25 | 225 | A |
| C10.25.26 | 26 | 225 | B |

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE

### Notes

**Material:** Steel

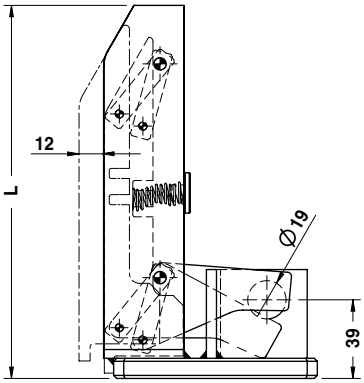
### Application example

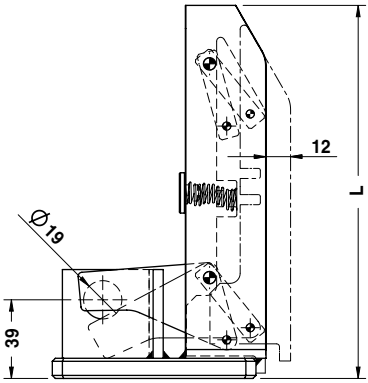




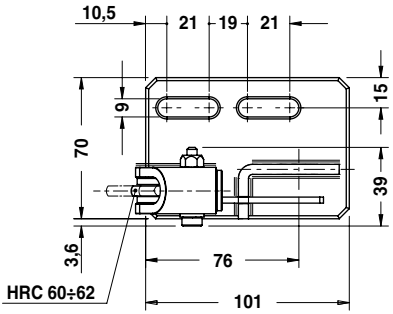

STOCK

3D WEB

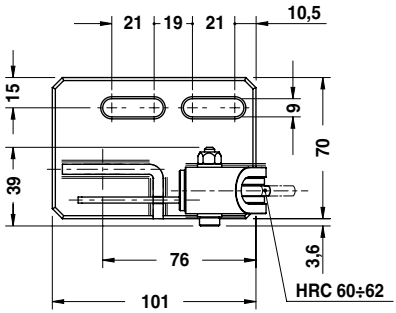



**FORM A**




**FORM B**



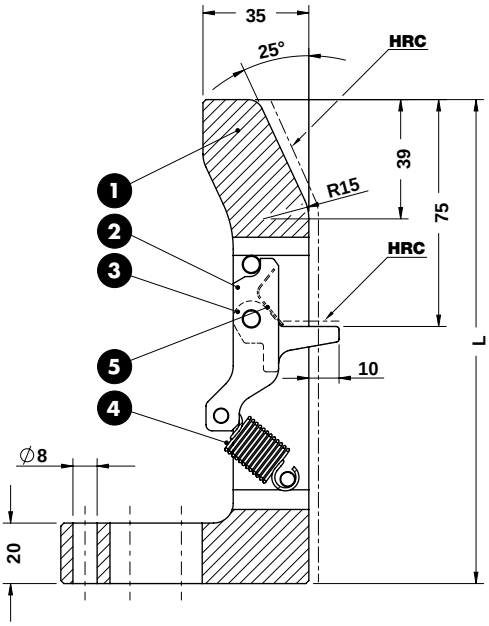

ORDER EXAMPLE

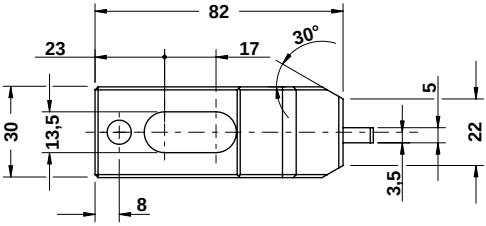
| Art. | TYPE |
|---|---|
| C10.25. | 30 |

| OMCR CODE | TYPE | L | FORM |
|---|---|---|---|
| C10.25.30 | 30 | 145 | A |
| C10.25.31 | 31 | 145 | B |
| C10.25.32 | 32 | 185 | A |
| C10.25.33 | 33 | 185 | B |
| C10.25.34 | 34 | 225 | A |
| C10.25.35 | 35 | 225 | B |

## GAGE - EINWEISER - RIFERIMENTO






STOCK

3D WEB



### Notes

1 3
**Material:** CK45 - **HRC:** 58÷60

2 **Material:** CK45 - **HRC:** 54÷56

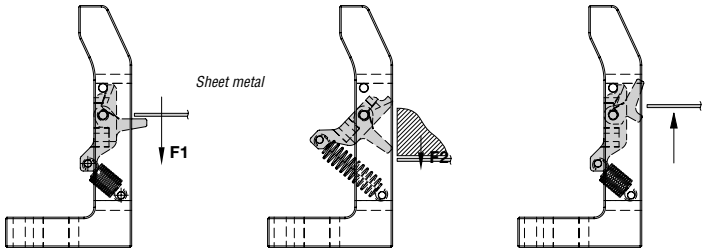
4 Spring

5 Spring

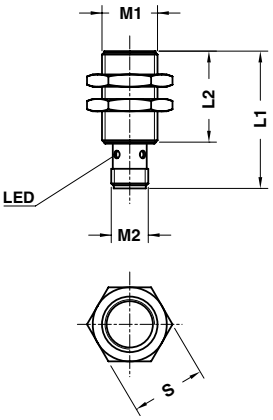
| ORDER EXAMPLE | Art. | L=180 | F1=5,9 |
|---|---|---|---|
| | C10.30. | 180 | 05 |

| OMCR CODE | L | F1(N) | F2(N) |
|---|---|---|---|
| C10.30.16005 | 160 | 5,9 | 18,5 |
| C10.30.16010 | 160 | 10 | 30 |
| C10.30.16022 | 160 | 22 | 65 |
| C10.30.17005 | 170 | 5,9 | 18,5 |
| C10.30.17010 | 170 | 10 | 30 |
| C10.30.17022 | 170 | 22 | 65 |
| C10.30.18005 | 180 | 5,9 | 18,5 |
| C10.30.18010 | 180 | 10 | 30 |
| C10.30.18022 | 180 | 22 | 65 |
| C10.30.19005 | 190 | 5,9 | 18,5 |
| C10.30.19010 | 190 | 10 | 30 |
| C10.30.19022 | 190 | 22 | 65 |
| C10.30.20005 | 200 | 5,9 | 18,5 |
| C10.30.20010 | 200 | 10 | 30 |
| C10.30.20022 | 200 | 22 | 65 |

### Application example



## SENSOR - INDUKTIVE SENSOR - SENSORE





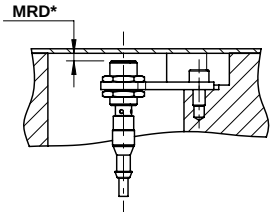

STOCK

3D WEB

### Notes

Manufactured by
Hersteller - Costruttore: **BALLUFF**

### Application example




*Max reading distance
Maximale Lesereichweite
Distanza massima di lettura

ORDER EXAMPLE

| Art. |
|---|
| C10.90.01 |

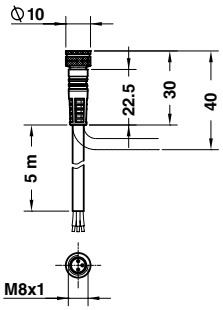
| OMCR CODE | L1 | L2 | M1 | M2 | S | MRD* on steel (mm) | MRD* on aluminium (mm) |
|---|---|---|---|---|---|---|---|
| **C10.90.01** | 30 | 23,5 | M8x1 | M8x1 | 13 | 1,5 | - |
| **C10.90.02** | 45 | 30 | M12x1 | M12x1 | 17 | 4 | - |
| **C10.90.03** | 44,5 | 29,5 | M18x1 | M12x1 | 24 | 5 | 3 |
| **C10.90.04** | 44,5 | 30 | M30x1,5 | M12x1 | 36 | 10 | 6 |

| TECHNICAL DATA | C10.90.01 | C10.90.02 | C10.90.03 | C10.90.04 |
|---|---|---|---|---|
| 1 **Rated operational voltage (Ue)** | 24 V DC | 24 V DC | 24 V DC | 24 V DC |
| 2 **Supply voltage (Ub)** | 10...30 V DC | 10...30 V DC | 10...30 V DC | 10...30 V DC |
| 3 **No load supply current (Io max.)** | ≤ 7 mA | ≤ 10 mA | ≤ 10 mA | ≤ 25 mA |
| 4 **Residual current (Ir)** | ≤ 10 µA | ≤ 50 µA | ≤ 50 µA | ≤ 80 µA |
| 5 **Repeat accuracy (R)** | ≤ 5 % | ≤ 5 % | ≤ 5 % | ≤ 5 % |
| 6 **Ambient temperature range (Ta)** | -40…+85° C | -25…+85° C | -25…+70° C | -25…+70° C |
| 7 **Frequency of operating cycles (f)** | 5000 Hz | 2000 Hz | 1000 Hz | 150 Hz |
| 8 **Degree of protection per IEC 60529** | IP 68 | IP 68 | IP 67 | IP 67 |
| 9 **Housing material** | Stainless Steel | Stainless Steel | Brass | Brass |
| 10 **Connection** | Connector | Connector | Connector | Connector |
| 11 **Approval** | CE/UL | CE/UL | CE/UL | CE/UL |
| 12 **Switching output** | PNP normally open | PNP normally open | PNP normally open | PNP normally open |

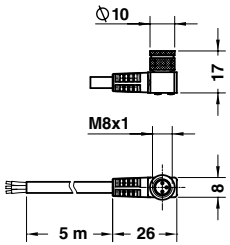
## CONNECTOR - STECKVERBINDER - CONNETTORE



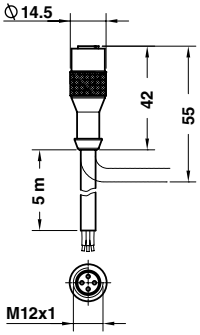
### FORM A



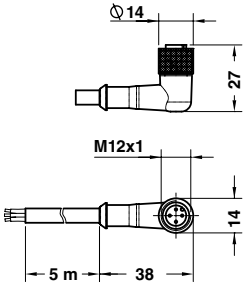

### FORM B




### FORM C




### FORM D






STOCK

3D WEB

**Notes**

Manufactured by
Hersteller - Costruttore: **BALLUFF**

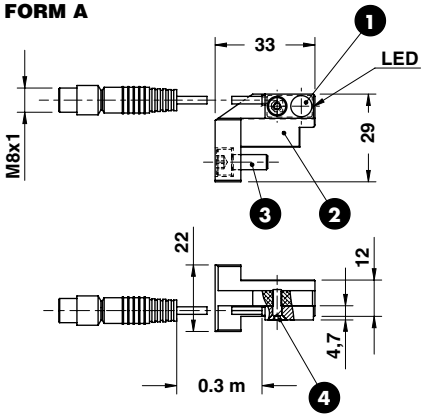
ORDER EXAMPLE

| Art. |
|---|
| C10.91.0190 |

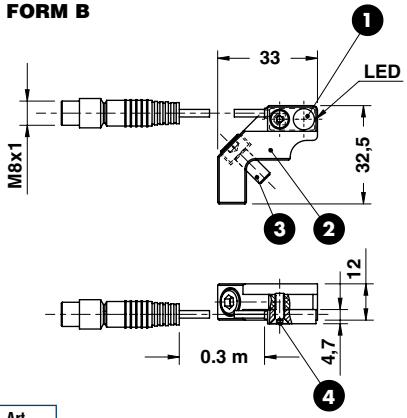
| OMCR CODE | FORM |
|---|---|
| C10.91.0100 | A |
| C10.91.0190 | B |
| C10.91.0200 | C |
| C10.91.0290 | D |

## SENSOR - INDUKTIVE SENSOR - SENSORE

**FORM A**




**FORM B**



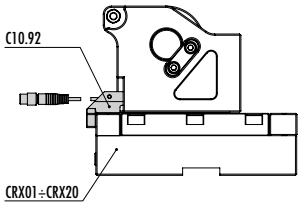



STOCK ... 3D WEB

### Notes

1. Manufactured by Hersteller - Costruttore: **BALLUFF**
2. Aluminium
3. M5x12 DIN 912
4. M3x10 DIN 7991

### Application example




ORDER EXAMPLE

| Art. |
|---|
| C10.92.01 |

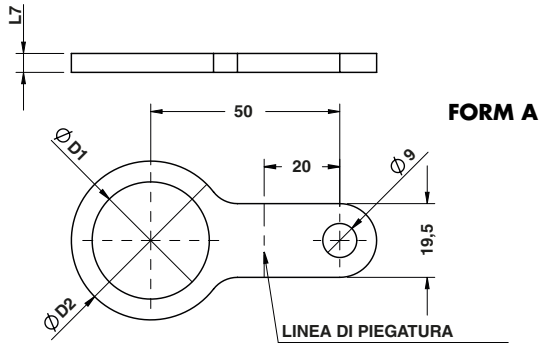
* Max reading distance
Maximale Lesereichweite
Distanza massima di lettura

| OMCR CODE | Form | MRD* on steel (mm) | Using with cam units |
|---|---|---|---|
| C10.92.01 | A | 2 | CRX01 |
| C10.92.02 | B | 2 | CRX03, CRX05, CRX15, CRX20 |

| SENSOR TECHNICAL DATA | | |
|---|---|---|
| 1 | Rated operational voltage (Ue) | 24 V DC |
| 2 | Supply voltage (Ub) | 10...30 V DC |
| 3 | No load supply current (Io max.) | ≤ 10 mA |
| 4 | Residual current (Ir) | ≤ 50 µA |
| 5 | Repeat accuracy (R) | ≤ 1 % |
| 6 | Ambient temperature range (Ta) | -25…+70° C |
| 7 | Frequency of operating cycles (f) | 5000 Hz |
| 8 | Degree of protection per IEC 60529 | IP 67 |
| 9 | Housing material | Brass |
| 10 | Connection | Cable with connector, 0.30 m |
| 11 | Approval | CE/UL |
| 12 | Switching output | PNP normally open |

## PLATE FOR SENSOR - HALTERUNG - PIASTRINA PORTASENSORE



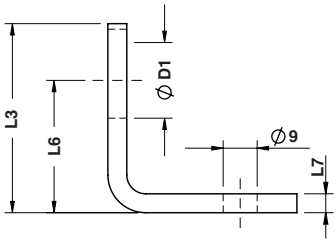


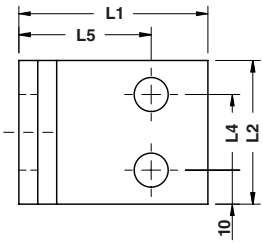


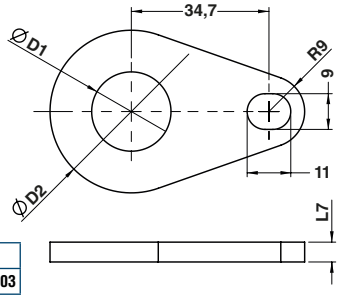

STOCK 3D WEB

### Notes

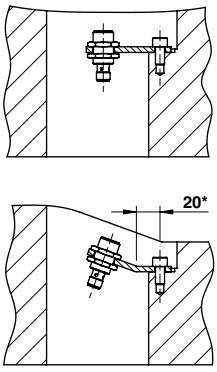
**Material:** St37




### Application example

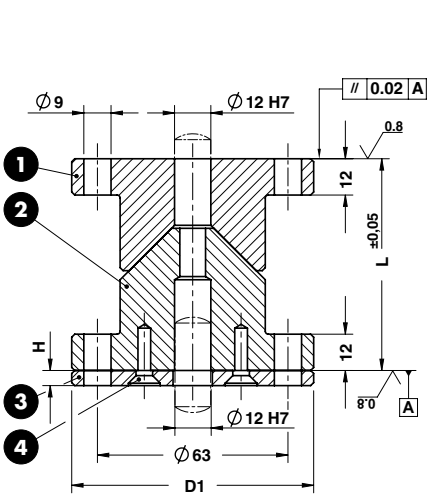


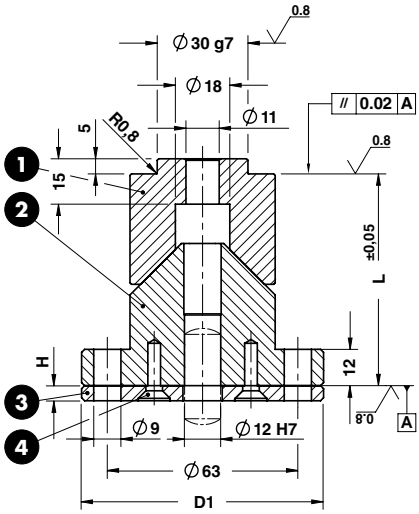

* Biegekante
Edge bending
Linea di piegatura

ORDER EXAMPLE Art. C10.95.03

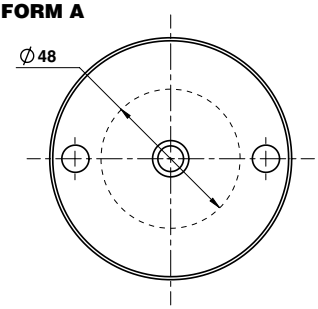
| OMCR CODE | L1 | L2 | L3 | L4 | L5 | L6 | L7 | D1 | D2 | FORM | Using with sensor |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C10.95.01 | - | - | - | - | - | - | 5 | 19 | 30 | A | C10.90.03 |
| C10.95.02 | - | - | - | - | - | - | 5 | 31 | 42 | A | C10.90.04 |
| C10.95.03 | 80 | 50 | 60 | 30 | 60 | 35 | 7 | 19 | - | B | C10.90.03 |
| C10.95.04 | 80 | 50 | 60 | 30 | 60 | 35 | 7 | 31 | - | B | C10.90.04 |
| C10.95.05 | 40 | 40 | 80 | 20 | 25 | - | 6 | - | - | B | - |
| C10.95.06 | - | - | - | - | - | - | 5 | 20 | 41 | C | C10.90.03 |

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO

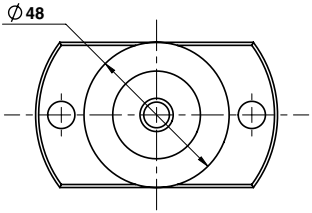


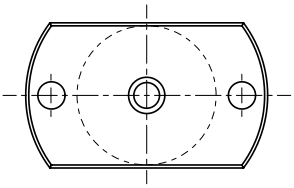

**FORM A**




**FORM C**




**FORM B**



## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



### Notes

1 2 **Material:** 16MnCr5 - **HRC:** 60÷62

3 **Material:** CK45

4 M5x12 DIN 7991



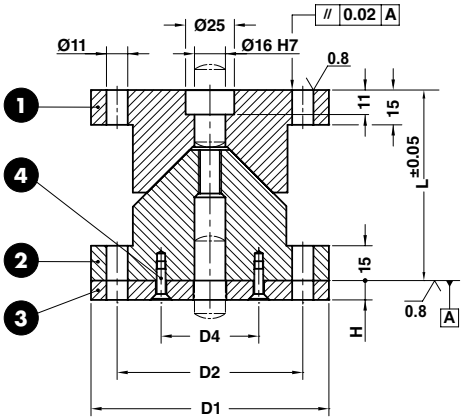
STOCK ... 3D WEB

ORDER EXAMPLE

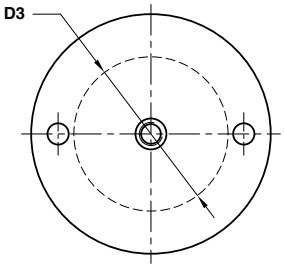
| Art. | D1=80 | L=70 | FORM | TYPE |
|---|---|---|---|---|
| C11.08. | 80 | 70 | A | 01 |

| OMCR CODE | D1 | L | H | FORM | TYPE |
|---|---|---|---|---|---|
| C11.08.08070A00 | 80 | 70 | 5 | A | 00 |
| C11.08.08070A01 | 80 | 70 | 5,5 | A | 01 |
| C11.08.08070B00 | 80 | 70 | 5 | B | 00 |
| C11.08.08070B01 | 80 | 70 | 5,5 | B | 01 |
| C11.08.08070C00 | 80 | 70 | 5 | C | 00 |
| C11.08.08070C01 | 80 | 70 | 5,5 | C | 01 |

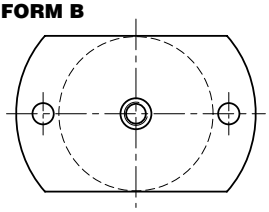
## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



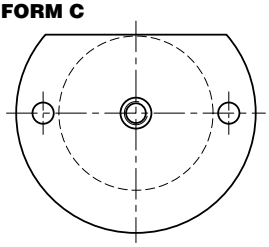

**FORM A**




**FORM B**



**FORM C**



## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



### Notes

1 2 **Material:** 16MnCr5 - **HRC:** 60÷62

3 **Material:** CK45

4 M5x16 DIN 7991

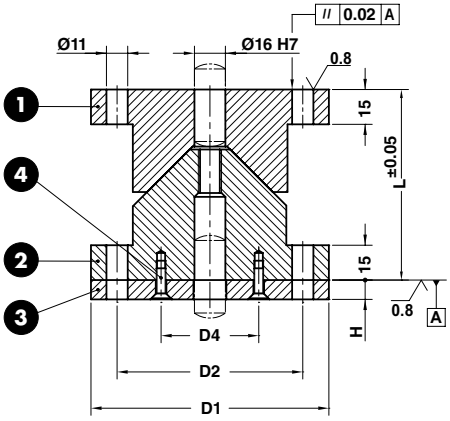


STOCK ... 3D WEB

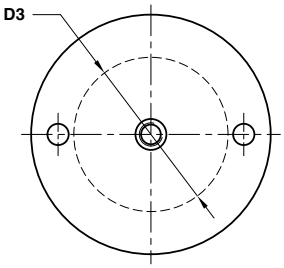
| ORDER EXAMPLE | Art. | D1=100 | L=80 | FORM | TYPE |
|---|---|---|---|---|---|
| | C11.09. | 100 | 80 | B | 01 |

| OMCR CODE | D1 | D2 | D3 | D4 | L | H | FORM | TYPE |
|---|---|---|---|---|---|---|---|---|
| C11.09.10080A00 | 100 | 76 | 58 | 40,5 | 80 | 10,5 | A | 00 |
| C11.09.10080A01 | 100 | 76 | 58 | 40,5 | 80 | 10 | A | 01 |
| C11.09.10080B00 | 100 | 76 | 58 | 40,5 | 80 | 10,5 | B | 00 |
| C11.09.10080B01 | 100 | 76 | 58 | 40,5 | 80 | 10 | B | 01 |
| C11.09.10080C00 | 100 | 76 | 58 | 40,5 | 80 | 10,5 | C | 00 |
| C11.09.10080C01 | 100 | 76 | 58 | 40,5 | 80 | 10 | C | 01 |
| C11.09.12090A00 | 120 | 96 | 78 | 50,5 | 90 | 10,5 | A | 00 |
| C11.09.12090A01 | 120 | 96 | 78 | 50,5 | 90 | 10 | A | 01 |
| C11.09.12090B00 | 120 | 96 | 78 | 50,5 | 90 | 10,5 | B | 00 |
| C11.09.12090B01 | 120 | 96 | 78 | 50,5 | 90 | 10 | B | 01 |
| C11.09.12090C00 | 120 | 96 | 78 | 50,5 | 90 | 10,5 | C | 00 |
| C11.09.12090C01 | 120 | 96 | 78 | 50,5 | 90 | 10 | C | 01 |

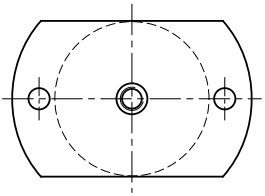
## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



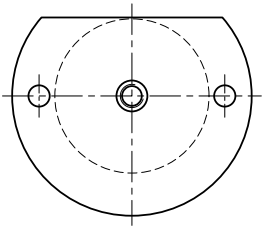

**"FORM A"**




**"FORM B"**



**"FORM C"**



## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



### Notes

1 2 **Material:** 16MnCr5 - **HRC:** 60÷62

3 **Material:** CK45

4 M5x16 DIN 7991



STOCK ... 3D WEB

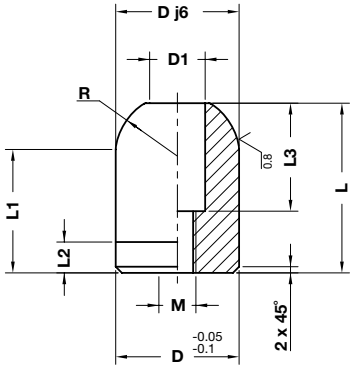
| ORDER EXAMPLE | Art. | D1=100 | L=80 | FORM | TYPE |
|---|---|---|---|---|---|
| | C11.11. | 100 | 80 | B | 01 |

| OMCR CODE | D1 | D2 | D3 | D4 | L | H | FORM | TYPE |
|---|---|---|---|---|---|---|---|---|
| C11.11.10080A00 | 100 | 76 | 58 | 40,5 | 80 | 10,5 | A | 00 |
| C11.11.10080A01 | 100 | 76 | 58 | 40,5 | 80 | 10 | A | 01 |
| C11.11.10080A02 | 100 | 76 | 58 | 40,5 | 80 | 5,5 | A | 02 |
| C11.11.10080A03 | 100 | 76 | 58 | 40,5 | 80 | 5 | A | 03 |
| C11.11.10080B00 | 100 | 76 | 58 | 40,5 | 80 | 10,5 | B | 00 |
| C11.11.10080B01 | 100 | 76 | 58 | 40,5 | 80 | 10 | B | 01 |
| C11.11.10080B02 | 100 | 76 | 58 | 40,5 | 80 | 5,5 | B | 02 |
| C11.11.10080B03 | 100 | 76 | 58 | 40,5 | 80 | 5 | B | 03 |
| C11.11.10080C00 | 100 | 76 | 58 | 40,5 | 80 | 10,5 | C | 00 |
| C11.11.10080C01 | 100 | 76 | 58 | 40,5 | 80 | 10 | C | 01 |
| C11.11.10080C02 | 100 | 76 | 58 | 40,5 | 80 | 5,5 | C | 02 |
| C11.11.10080C03 | 100 | 76 | 58 | 40,5 | 80 | 5 | C | 03 |
| C11.11.12090A00 | 120 | 96 | 78 | 50,5 | 90 | 10,5 | A | 00 |
| C11.11.12090A01 | 120 | 96 | 78 | 50,5 | 90 | 10 | A | 01 |
| C11.11.12090A02 | 120 | 96 | 78 | 50,5 | 90 | 5,5 | A | 02 |
| C11.11.12090A03 | 120 | 96 | 78 | 50,5 | 90 | 5 | A | 03 |
| C11.11.12090B00 | 120 | 96 | 78 | 50,5 | 90 | 10,5 | B | 00 |
| C11.11.12090B01 | 120 | 96 | 78 | 50,5 | 90 | 10 | B | 01 |
| C11.11.12090B02 | 120 | 96 | 78 | 50,5 | 90 | 5,5 | B | 02 |
| C11.11.12090B03 | 120 | 96 | 78 | 50,5 | 90 | 5 | B | 03 |
| C11.11.12090C00 | 120 | 96 | 78 | 50,5 | 90 | 10,5 | C | 00 |
| C11.11.12090C01 | 120 | 96 | 78 | 50,5 | 90 | 10 | C | 01 |
| C11.11.12090C02 | 120 | 96 | 78 | 50,5 | 90 | 5,5 | C | 02 |
| C11.11.12090C03 | 120 | 96 | 78 | 50,5 | 90 | 5 | C | 03 |

# C11.12

OMCR

## LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO




STOCK

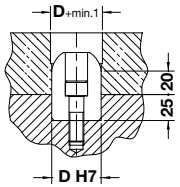
3D WEB



**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

**Application example**




ORDER EXAMPLE

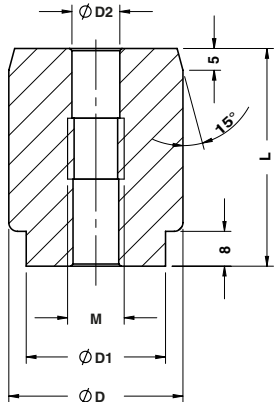
| Art. | D=22 | L=45 |
|---|---|---|
| C11.12. | 22 | 45 |

| OMCR CODE | D | D1 | L | L1 | L2 | L3 | M | R |
|---|---|---|---|---|---|---|---|---|
| C11.12.2245 | 22 | 14 | 45 | 37,5 | 8 | 25 | 10 | 12,5 |
| C11.12.3250 | 32 | 18 | 50 | 40 | 10 | 35 | 12 | 20 |
| C11.12.4055 | 40 | 18 | 55 | 40 | 10 | 35 | 12 | 20 |
| C11.12.5055 | 50 | 18 | 55 | 40 | 10 | 35 | 12 | 20 |

# C11.15

OMCR

## LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO




STOCK

3D WEB



**Notes**

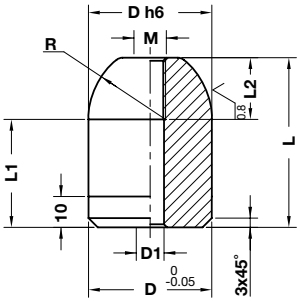
**Material:** 16MnCr5 - **HRC:** 58÷60

ORDER EXAMPLE

| Art. | D=32 | L=50 |
|---|---|---|
| C11.15. | 32 | 50 |

| OMCR CODE | D | D1 | D2 | L | M |
|---|---|---|---|---|---|
| C11.15.2550 | 25 | 18 | 11 | 50 | M8 |
| C11.15.3250 | 32 | 25 | 11 | 50 | M8 |
| C11.15.4050 | 40 | 32 | 15 | 50 | M10 |
| C11.15.5050 | 50 | 42 | 15 | 50 | M10 |

## LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO




STOCK

3D

WEB



**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

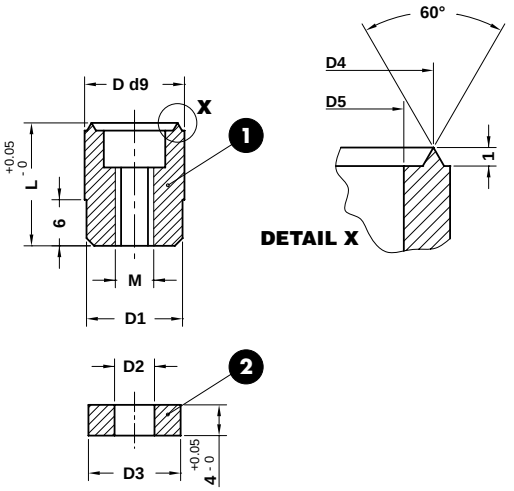


ORDER EXAMPLE

| Art. | D=22 | L=45 |
|---|---|---|
| C11.20. | 22 | 45 |

| OMCR CODE | D | D1 | L | L1 | L2 | M | R |
|---|---|---|---|---|---|---|---|
| **C11.20.2245** | 22 | 7 | 45 | 35 | 16 | M8 | 15 |
| **C11.20.2255** | 22 | 7 | 55 | 45 | 16 | M8 | 15 |
| **C11.20.3250** | 32 | 9 | 50 | 37,5 | 20 | M10 | 20 |
| **C11.20.4055** | 40 | 9 | 55 | 35 | 20 | M10 | 25 |
| **C11.20.4065** | 40 | 9 | 65 | 45 | 20 | M10 | 25 |
| **C11.20.4085** | 40 | 9 | 85 | 65 | 20 | M10 | 25 |
| **C11.20.5055** | 50 | 9 | 55 | 41,25 | 20 | M10 | 25 |
| **C11.20.5680** | 56 | 9 | 80 | 60 | 20 | M10 | 30 |

# VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE






STOCK ... 3D WEB

## Notes

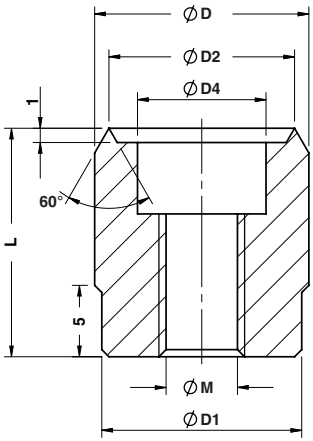
1. **Material:** X205Cr12KU
   **HRC:** 60÷62
2. **Material:** X205Cr12KU

| ORDER EXAMPLE | Art. | D=10 | L=16 |
|---|---|---|---|
| | C11.30. | 10 | 16 |

| OMCR CODE | D | D1 | D2 | D3 | D4 | D5 | L | M |
|---|---|---|---|---|---|---|---|---|
| C11.30.1016 | 10 | 9,5 | 4,2 | 9,7 | 8 | 6 | 16 | M4 |
| C11.30.1316 | 13 | 12,5 | 5,2 | 12 | 11,2 | 8 | 16 | M5 |

# VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE








STOCK

3D WEB

## Notes

**Material:** X155CrVNo121
**HRC:** 58÷60

ORDER EXAMPLE

| Art. | D=18 | L=16 |
|---|---|---|
| C11.31. | 18 | 16 |

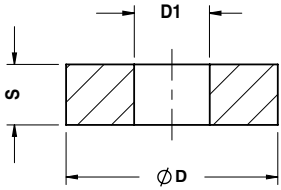
| OMCR CODE | D | D1 | D2 | D3 | D4 | L | M |
|---|---|---|---|---|---|---|---|
| C11.31.1316 | 13 | 12 | 11,8 | 5 | 8 | 16 | M6 |
| C11.31.1516 | 15 | 14 | 13 | 5 | 9 | 16 | M6 |
| C11.31.1816 | 18 | 17,5 | 16 | 7 | 11 | 16 | M8 |
| C11.31.2116 | 21 | 20,5 | 19 | 9 | 14 | 16 | M10 |

# C11.32

OMCR

## ADJUSTMENT PLATE - SCHEIBE - RONDELLA DI REGISTRO

STOCK | 3D WEB






**Notes**

**Material:** 42CrMo4

| ORDER EXAMPLE | Art. | D=17,5 | S=4 |
|---|---|---|---|
| | C11.32. | 175 | 4 |

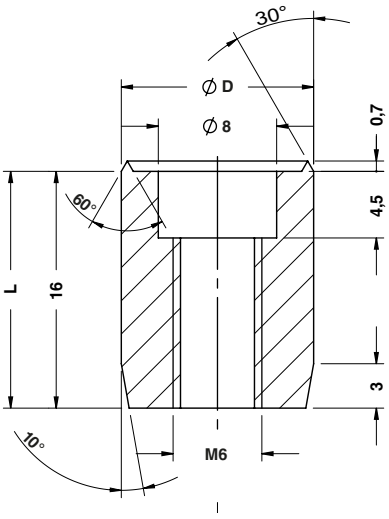
| OMCR CODE | D | D1 | S |
|---|---|---|---|
| C11.32.1203 | 12 | 5 | 3 |
| C11.32.1404 | 14 | 5 | 4 |
| C11.32.1754 | 17.5 | 7 | 4 |
| C11.32.2054 | 20.5 | 9 | 4 |

# C11.33

OMCR

## VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE

STOCK | ... | 3D WEB






**Notes**

**Material:** X210Cr12 - **HRC:** 60÷62

| ORDER EXAMPLE | Art. | D=13 | L=16,7 |
|---|---|---|---|
| | C11.33. | 13 | 167 |

| OMCR CODE | D | L |
|---|---|---|
| C11.33.13167 | 13 | 16,7 |

## STAMP RETAINER - HALTEPLATTE - PORTATIMBRI

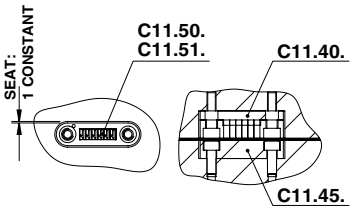


### Notes

❶ ❷
**Material:** CK45

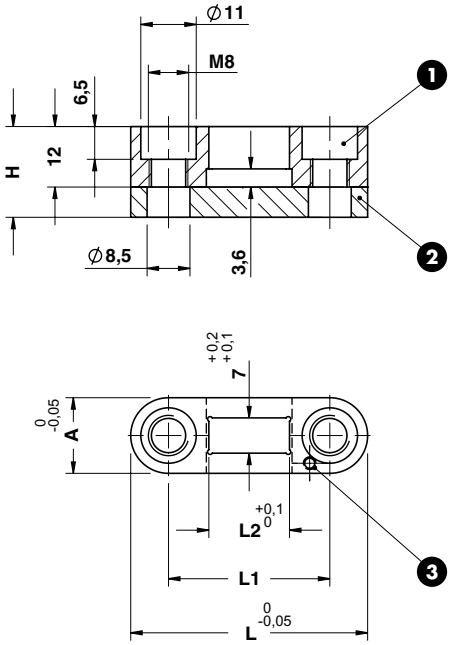
❸
ELASTIC PIN Ø2.5x14 DIN 1481

### Application example





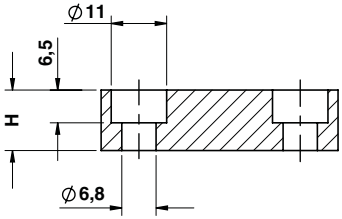

STOCK ... 3D WEB

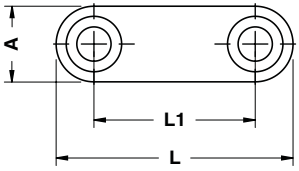


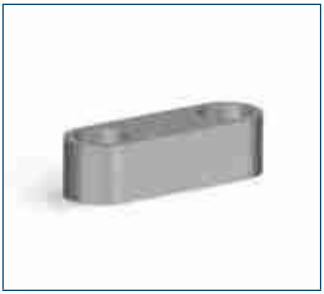

| ORDER EXAMPLE | Art. | A=15 | H=18 | L=47 |
|---|---|---|---|---|
| | C11.40. | 15 | 18 | 047 |

| OMCR CODE | A | H | L | L1 | L2 | Nr. of stamps C11.50. | Nr. of stamps C11.51. |
|---|---|---|---|---|---|---|---|
| C11.40.1518045 | 15 | 18 | 45 | 30 | 12 | 3 | 6 |
| C11.40.1518047 | 15 | 18 | 47 | 32 | 16 | 4 | 8 |
| C11.40.1518055 | 15 | 18 | 55 | 40 | 24 | 6 | 12 |
| C11.40.1518063 | 15 | 18 | 63 | 48 | 32 | 8 | 16 |
| C11.40.1518071 | 15 | 18 | 71 | 56 | 40 | 10 | 20 |

## BACKING PLATE - DRUCKPLATTE - REAZIONE



STOCK

3D WEB

**Notes**

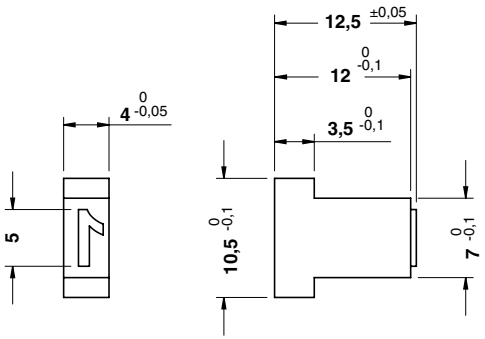
**Material:** CK45

| ORDER EXAMPLE | Art. | A=15 | H=12 | L=47 |
|---|---|---|---|---|
| | C11.45. | 15 | 12 | 047 |

| OMCR CODE | A | H | L | L1 | Used with Stamp Retainer |
|---|---|---|---|---|---|
| **C11.45.1512045** | 15 | 12 | 45 | 30 | C11.40.1518045 |
| **C11.45.1512047** | 15 | 12 | 47 | 32 | C11.40.1518047 |
| **C11.45.1512055** | 15 | 12 | 55 | 40 | C11.40.1518055 |
| **C11.45.1512063** | 15 | 12 | 63 | 48 | C11.40.1518063 |
| **C11.45.1512071** | 15 | 12 | 71 | 56 | C11.40.1518071 |

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO








STOCK 3D WEB

**Notes**

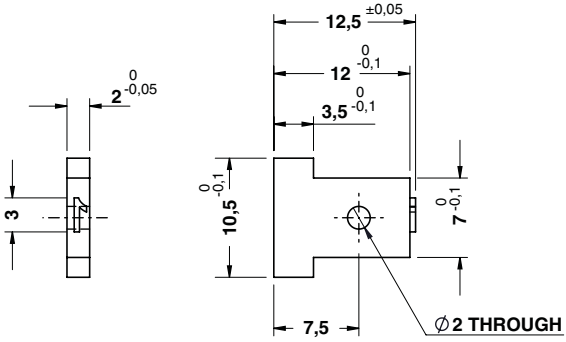
**Material:** X153CrMoV12
**HRC:** 54÷56

ORDER EXAMPLE

| Art. |
|---|
| C11.50.01 |

| OMCR CODE | Stamp | OMCR CODE | Stamp | OMCR CODE | Stamp | OMCR CODE | Stamp |
|---|---|---|---|---|---|---|---|
| C11.50.00 | 0 | C11.50.10 | B | C11.50.20 | L | C11.50.30 | V |
| C11.50.01 | 1 | C11.50.11 | C | C11.50.21 | M | C11.50.31 | W |
| C11.50.02 | 2 | C11.50.12 | D | C11.50.22 | N | C11.50.32 | X |
| C11.50.03 | 3 | C11.50.13 | E | C11.50.23 | O | C11.50.33 | Y |
| C11.50.04 | 4 | C11.50.14 | F | C11.50.24 | P | C11.50.34 | Z |
| C11.50.05 | 5 | C11.50.15 | G | C11.50.25 | Q | C11.50.35 | SPACE |
| C11.50.06 | 6 or 9 | C11.50.16 | H | C11.50.26 | R | C11.50.36 | - |
| C11.50.07 | 7 | C11.50.17 | I | C11.50.27 | S | C11.50.37 | _ |
| C11.50.08 | 8 | C11.50.18 | J | C11.50.28 | T | | |
| C11.50.09 | A | C11.50.19 | K | C11.50.29 | U | | |

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO






STOCK

3D WEB

### Notes

**Material:** X153CrMoV12
**HRC:** 54÷56

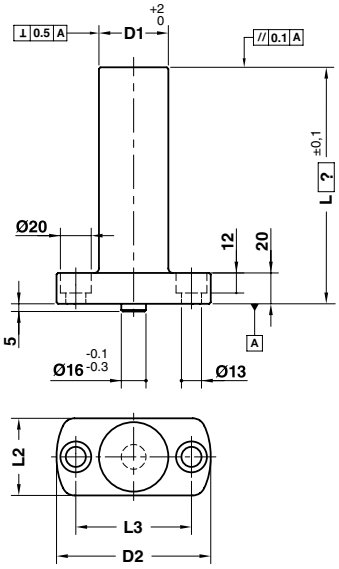
ORDER EXAMPLE

| Art. |
|---|
| C11.51.01 |

| OMCR CODE | Stamp | OMCR CODE | Stamp | OMCR CODE | Stamp | OMCR CODE | Stamp |
|---|---|---|---|---|---|---|---|
| C11.51.00 | 0 | C11.51.10 | B | C11.51.20 | L | C11.51.30 | V |
| C11.51.01 | 1 | C11.51.11 | C | C11.51.21 | M | C11.51.31 | W |
| C11.51.02 | 2 | C11.51.12 | D | C11.51.22 | N | C11.51.32 | X |
| C11.51.03 | 3 | C11.51.13 | E | C11.51.23 | O | C11.51.33 | Y |
| C11.51.04 | 4 | C11.51.14 | F | C11.51.24 | P | C11.51.34 | Z |
| C11.51.05 | 5 | C11.51.15 | G | C11.51.25 | Q | C11.51.35 | SPACE |
| C11.51.06 | 6 or 9 | C11.51.16 | H | C11.51.26 | R | C11.51.36 | - |
| C11.51.07 | 7 | C11.51.17 | I | C11.51.27 | S | C11.51.37 | _ |
| C11.51.08 | 8 | C11.51.18 | J | C11.51.28 | T | | |
| C11.51.09 | A | C11.51.19 | K | C11.51.29 | U | | |

## AIR PIN - DRUCKBOLZEN - CANDELA








10 | 3D | WEB

Lmax = 360 mm

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

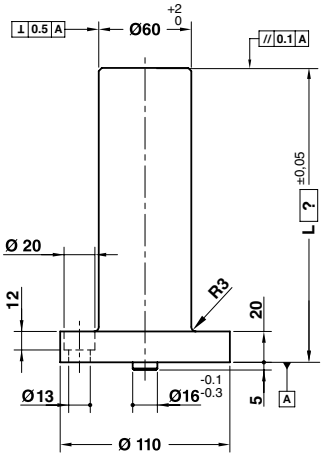
**Material:** CK45 - 800÷1000 N/mm²

ORDER EXAMPLE

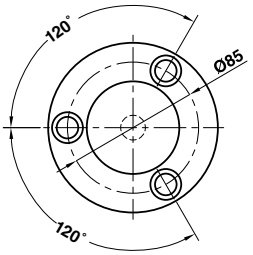
| Art. | D1=36 | L=230 |
|---|---|---|
| C12.10. | 36 | 230 |

| OMCR CODE | D1 | D2 | L2 | L3 | Max load (kN) |
|---|---|---|---|---|---|
| C12.10. | 36 | 90 | 40 | 65 | 50 |
| C12.10. | 45 | 100 | 50 | 75 | 70 |

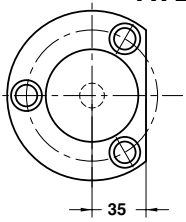
## AIR PIN - UNTERLUFTBOLZEN - CANDELA




**TYPE 01**




**TYPE 02**






10 | 3D WEB

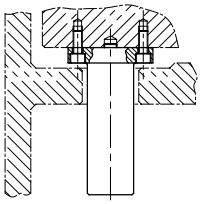
Lmax = 450 mm

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

**Material:** CK45 - 800÷1000 N/mm²

### Application example

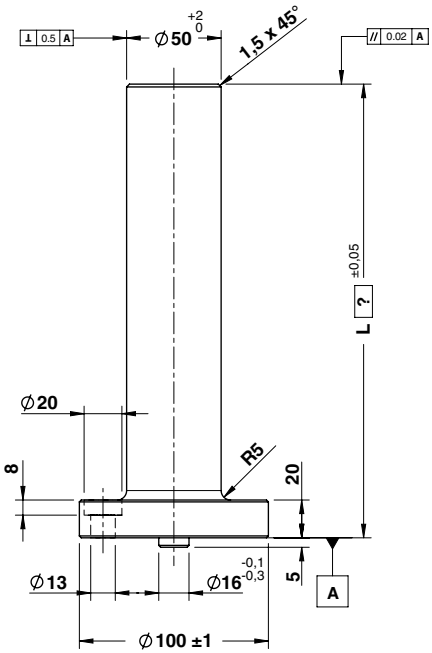


| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.11. | 01 | 220 |

| OMCR CODE | TYPE | Max Load (kN) |
|---|---|---|
| C12.11. | 01 | 80 |
| C12.11. | 02 | 80 |

## AIR PIN - UNTERLUFTBOLZEN - CANDELA








10 | WEB

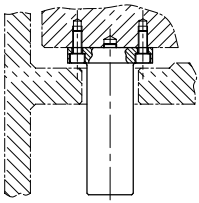
Lmax = 450 mm

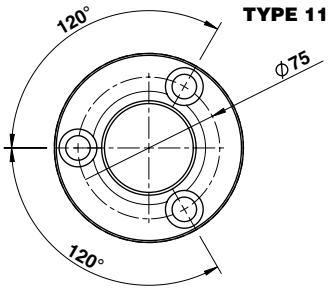
Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

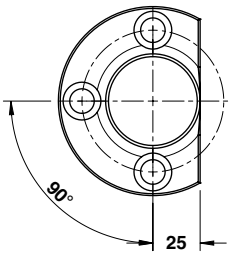
### Notes

**Material:** CK45 - 800÷1000 N/mm²

### Application example



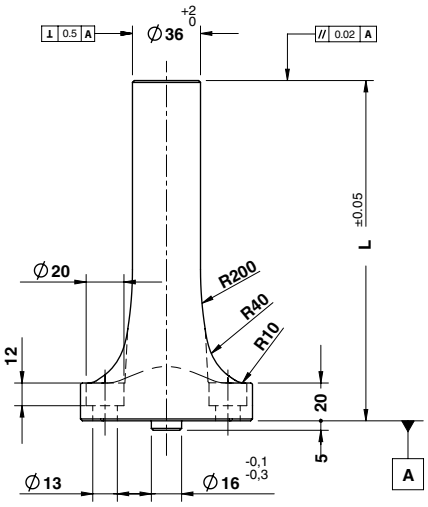



| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.11. | 11 | 220 |

| OMCR CODE | TYPE | Max Load (kN) |
|---|---|---|
| C12.11. | 11 | 80 |
| C12.11. | 12 | 80 |

## AIR PIN VDI 3002 - DRUCKBOLZEN VDI 3002 - CANDELA VDI 3002





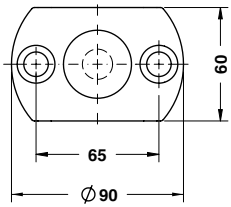

STOCK | WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**Notes**

**Material:** CK45
800÷1000 N/mm²

**TYPE 10**




| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.12. | 10 | 220 |

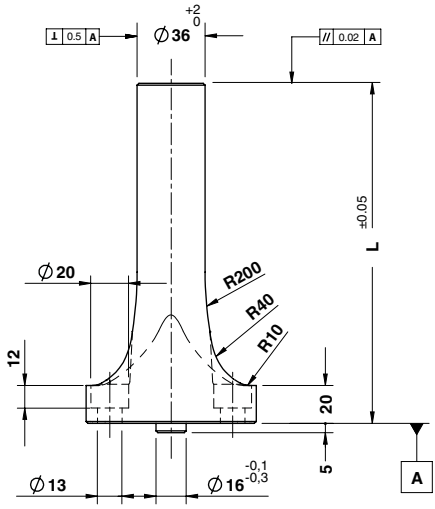
| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.10150 | 10 | 150 | 50 |
| C12.12.10155 | 10 | 155 | 50 |
| C12.12.10160 | 10 | 160 | 50 |
| C12.12.10165 | 10 | 165 | 50 |
| C12.12.10170 | 10 | 170 | 50 |
| C12.12.10175 | 10 | 175 | 50 |
| C12.12.10180 | 10 | 180 | 50 |
| C12.12.10185 | 10 | 185 | 50 |
| C12.12.10190 | 10 | 190 | 50 |
| C12.12.10195 | 10 | 195 | 50 |
| C12.12.10200 | 10 | 200 | 50 |
| C12.12.10205 | 10 | 205 | 50 |
| C12.12.10210 | 10 | 210 | 50 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.10215 | 10 | 215 | 50 |
| C12.12.10220 | 10 | 220 | 50 |
| C12.12.10225 | 10 | 225 | 50 |
| C12.12.10230 | 10 | 230 | 50 |
| C12.12.10235 | 10 | 235 | 50 |
| C12.12.10240 | 10 | 240 | 50 |
| C12.12.10245 | 10 | 245 | 50 |
| C12.12.10250 | 10 | 250 | 50 |
| C12.12.10255 | 10 | 255 | 50 |
| C12.12.10260 | 10 | 260 | 50 |
| C12.12.10265 | 10 | 265 | 50 |
| C12.12.10270 | 10 | 270 | 50 |
| C12.12.10275 | 10 | 275 | 50 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.10280 | 10 | 280 | 50 |
| C12.12.10285 | 10 | 285 | 50 |
| C12.12.10290 | 10 | 290 | 50 |
| C12.12.10295 | 10 | 295 | 50 |
| C12.12.10300 | 10 | 300 | 50 |
| C12.12.10310 | 10 | 310 | 50 |
| C12.12.10320 | 10 | 320 | 50 |
| C12.12.10330 | 10 | 330 | 50 |
| C12.12.10340 | 10 | 340 | 50 |
| C12.12.10350 | 10 | 350 | 50 |
| C12.12.10360 | 10 | 360 | 50 |

# AIR PIN VDI 3002 - DRUCKBOLZEN VDI 3002 - CANDELA VDI 3002







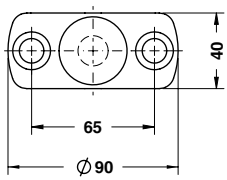

STOCK | WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

## Notes

**Material:** CK45
800÷1000 N/mm²

**TYPE 11**



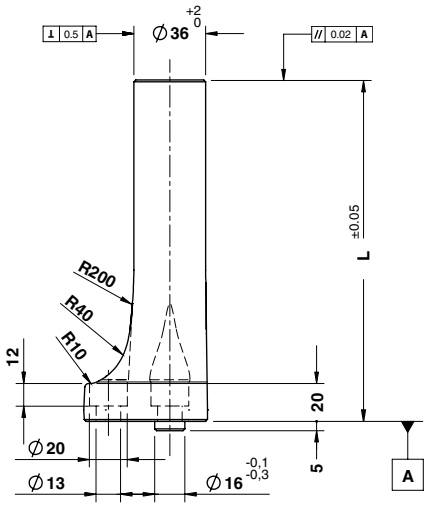

| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.12. | 11 | 220 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.11150 | 11 | 150 | 50 |
| C12.12.11155 | 11 | 155 | 50 |
| C12.12.11160 | 11 | 160 | 50 |
| C12.12.11165 | 11 | 165 | 50 |
| C12.12.11170 | 11 | 170 | 50 |
| C12.12.11175 | 11 | 175 | 50 |
| C12.12.11180 | 11 | 180 | 50 |
| C12.12.11185 | 11 | 185 | 50 |
| C12.12.11190 | 11 | 190 | 50 |
| C12.12.11195 | 11 | 195 | 50 |
| C12.12.11200 | 11 | 200 | 50 |
| C12.12.11205 | 11 | 205 | 50 |
| C12.12.11210 | 11 | 210 | 50 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.11215 | 11 | 215 | 50 |
| C12.12.11220 | 11 | 220 | 50 |
| C12.12.11225 | 11 | 225 | 50 |
| C12.12.11230 | 11 | 230 | 50 |
| C12.12.11235 | 11 | 235 | 50 |
| C12.12.11240 | 11 | 240 | 50 |
| C12.12.11245 | 11 | 245 | 50 |
| C12.12.11250 | 11 | 250 | 50 |
| C12.12.11255 | 11 | 255 | 50 |
| C12.12.11260 | 11 | 260 | 50 |
| C12.12.11265 | 11 | 265 | 50 |
| C12.12.11270 | 11 | 270 | 50 |
| C12.12.11275 | 11 | 275 | 50 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.11280 | 11 | 280 | 50 |
| C12.12.11285 | 11 | 285 | 50 |
| C12.12.11290 | 11 | 290 | 50 |
| C12.12.11295 | 11 | 295 | 50 |
| C12.12.11300 | 11 | 300 | 50 |
| C12.12.11310 | 11 | 310 | 50 |
| C12.12.11320 | 11 | 320 | 50 |
| C12.12.11330 | 11 | 330 | 50 |
| C12.12.11340 | 11 | 340 | 50 |
| C12.12.11350 | 11 | 350 | 50 |
| C12.12.11360 | 11 | 360 | 50 |

## AIR PIN VDI 3002 - DRUCKBOLZEN VDI 3002 - CANDELA VDI 3002






STOCK

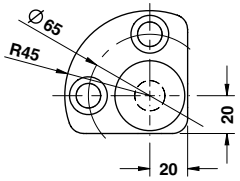
WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

**Material:** CK45
800÷1000 N/mm²

### TYPE 12




| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.12. | 12 | 220 |

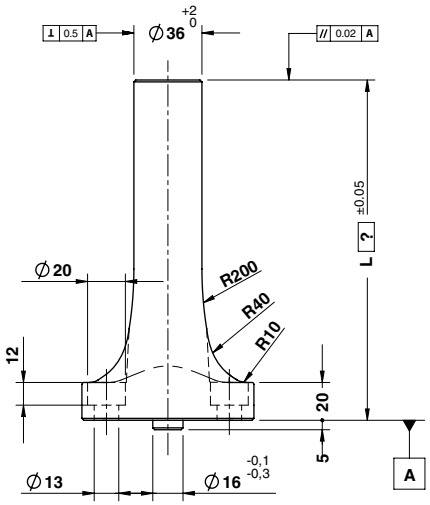
| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.12150 | 12 | 150 | 50 |
| C12.12.12155 | 12 | 155 | 50 |
| C12.12.12160 | 12 | 160 | 50 |
| C12.12.12165 | 12 | 165 | 50 |
| C12.12.12170 | 12 | 170 | 50 |
| C12.12.12175 | 12 | 175 | 50 |
| C12.12.12180 | 12 | 180 | 50 |
| C12.12.12185 | 12 | 185 | 50 |
| C12.12.12190 | 12 | 190 | 50 |
| C12.12.12195 | 12 | 195 | 50 |
| C12.12.12200 | 12 | 200 | 50 |
| C12.12.12205 | 12 | 205 | 50 |
| C12.12.12210 | 12 | 210 | 50 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.12215 | 12 | 215 | 50 |
| C12.12.12220 | 12 | 220 | 50 |
| C12.12.12225 | 12 | 225 | 50 |
| C12.12.12230 | 12 | 230 | 50 |
| C12.12.12235 | 12 | 235 | 50 |
| C12.12.12240 | 12 | 240 | 50 |
| C12.12.12245 | 12 | 245 | 50 |
| C12.12.12250 | 12 | 250 | 50 |
| C12.12.12255 | 12 | 255 | 50 |
| C12.12.12260 | 12 | 260 | 50 |
| C12.12.12265 | 12 | 265 | 50 |
| C12.12.12270 | 12 | 270 | 50 |
| C12.12.12275 | 12 | 275 | 50 |

| OMCR CODE | TYPE | L | Max Load (kN) |
|---|---|---|---|
| C12.12.12280 | 12 | 280 | 50 |
| C12.12.12285 | 12 | 285 | 50 |
| C12.12.12290 | 12 | 290 | 50 |
| C12.12.12295 | 12 | 295 | 50 |
| C12.12.12300 | 12 | 300 | 50 |
| C12.12.12310 | 12 | 310 | 50 |
| C12.12.12320 | 12 | 320 | 50 |
| C12.12.12330 | 12 | 330 | 50 |
| C12.12.12340 | 12 | 340 | 50 |
| C12.12.12350 | 12 | 350 | 50 |
| C12.12.12360 | 12 | 360 | 50 |

## AIR PIN VDI 3002 - DRUCKBOLZEN VDI 3002 - CANDELA VDI 3002








10 | 3D WEB

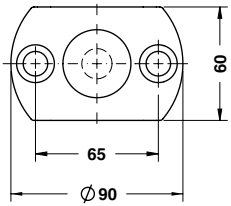
Lmax = 360 mm

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

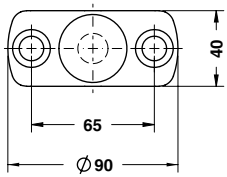
### Notes

**Material:** C45
800÷1000 N/mm²

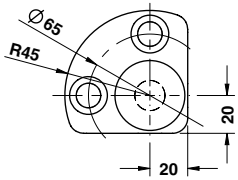
**TYPE 10**




**TYPE 11**




**TYPE 12**




| ORDER EXAMPLE | Art. | TYPE | L=220 |
|---|---|---|---|
| | C12.12. | 10 | 220 |

| OMCR CODE | TYPE | Max Load (kN) |
|---|---|---|
| C12.12. | 10 | 50 |
| C12.12. | 11 | 50 |
| C12.12. | 12 | 50 |

# SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE

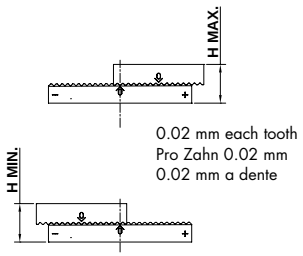
## Notes

1 2 3
**Material:** 90MnCrV8
**HRC:** 58÷60

4 **Material:** X155CrVMo12

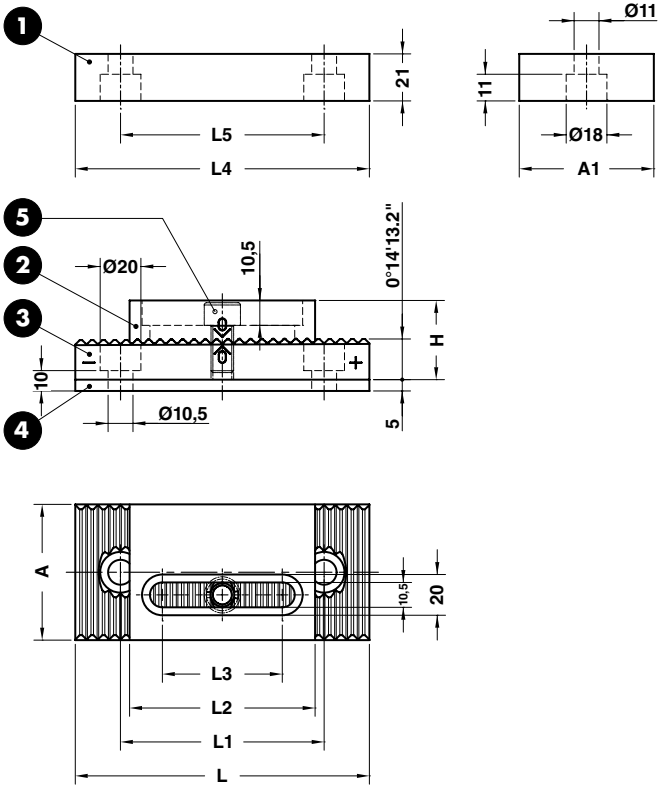
5 DIN 912

## Application example






STOCK ... 3D WEB




| ORDER EXAMPLE | Art. | A=60 | H=35 | L=130 |
|---|---|---|---|---|
| | C12.16. | 060 | 35 | 130 |

| OMCR CODE | A | A1 | H | H min. | H max. | L | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C12.16.06035130 | 60 | 60 | 35 | 34,88 | 35,12 | 130 | 90 | 90 | 61 | 130 | 90 |
| C12.16.08035160 | 80 | 80 | 35 | 34,86 | 35,14 | 160 | 120 | 110 | 71 | 160 | 120 |

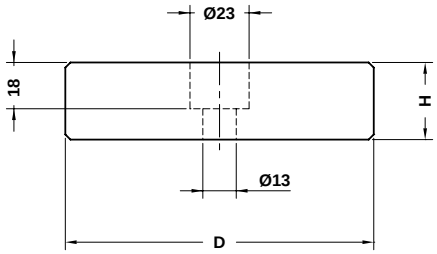
# C12.20

OMCR

## COMPENSATION BLOCK - ABSTANDSBLOCK - TASSELLO DI COMPENSAZIONE

STOCK

3D WEB






**Notes**

**Material:** 42CrMo4 - **HRC:** 46÷48

ORDER EXAMPLE

| Art. | D=80 | H=25 |
|---|---|---|
| C12.20. | 080 | 25 |

| OMCR CODE | D | H |
|---|---|---|
| C12.20.08025 | 80 | 25 |
| C12.20.08030 | 80 | 30 |
| C12.20.10025 | 100 | 25 |
| C12.20.10030 | 100 | 30 |
| C12.20.12025 | 120 | 25 |
| C12.20.12030 | 120 | 30 |

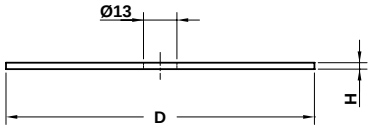
# C12.21

OMCR

## SHIM - AUSGLEICHSCHEIB - SPESSORE

STOCK

3D WEB






**Notes**

**Material:** CK45

ORDER EXAMPLE

| Art. | D=80 | H=0,5 |
|---|---|---|
| C12.21. | 080 | 05 |

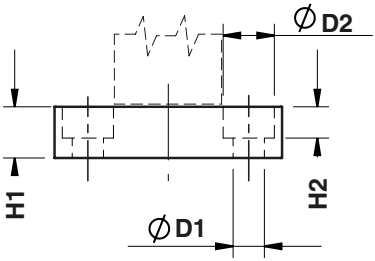
| OMCR CODE | D | H | Material |
|---|---|---|---|
| C12.21.08001 | 80 | 0,1 | BRASS |
| C12.21.08005 | 80 | 0,5 | STEEL |
| C12.21.10001 | 100 | 0,1 | BRASS |
| C12.21.10005 | 100 | 0,5 | STEEL |
| C12.21.12001 | 120 | 0,1 | BRASS |
| C12.21.12005 | 120 | 0,5 | STEEL |

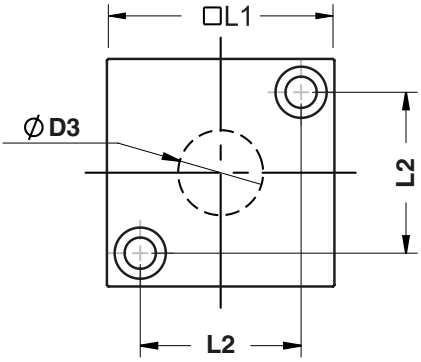
## PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE

STOCK

3D WEB






**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

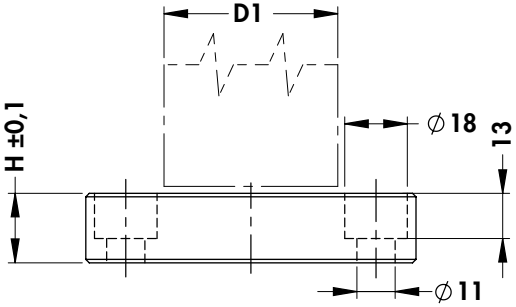
ORDER EXAMPLE

| Art. | L1=60 | H1=15 |
|---|---|---|
| C12.22. | 060 | 15 |

| OMCR CODE | L1 | L2 | D1 | D2 | D3 | H1 | H2 |
|---|---|---|---|---|---|---|---|
| C12.22.04012 | 40 | 24 | 7 | 11 | ≤ 20 | 12 | 7 |
| C12.22.06015 | 60 | 40 | 9 | 15 | ≤ 36 | 15 | 9 |
| C12.22.07015 | 70 | 50 | 9 | 15 | ≤ 50 | 15 | 9 |
| C12.22.08018 | 80 | 56,5 | 11 | 18 | ≤ 65 | 18 | 11 |
| C12.22.10020 | 100 | 74 | 11 | 18 | ≤ 80 | 20 | 11 |
| C12.22.14020 | 140 | 110 | 11 | 18 | ≤ 95 | 20 | 11 |

## PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE






STOCK

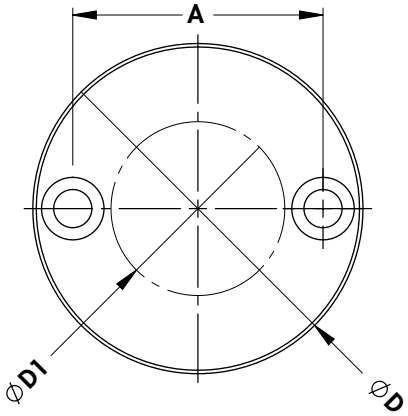
3D WEB



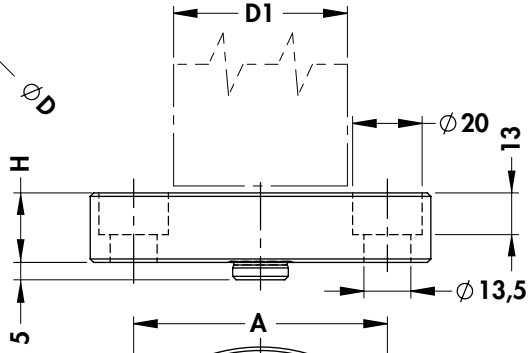
**Notes**

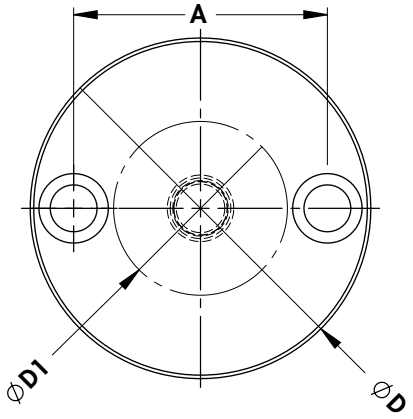
**Material:** 16MnCr5 - **HRC:** 58÷60

**FORM A**




**FORM B**



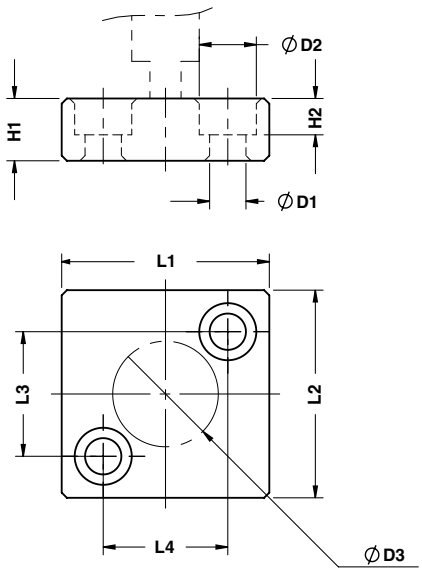



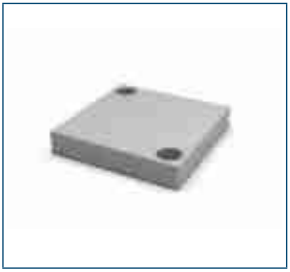

ORDER EXAMPLE

| Art. | D=95 | H=20 |
|---|---|---|
| C12.23. | 095 | 20 |

| OMCR CODE | A | D | D1 | H | FORM |
|---|---|---|---|---|---|
| C12.23.06520 | 42 | 65 | ≤ 25 | 20 | A |
| C12.23.09520 | 72 | 95 | ≤ 50 | 20 | A |
| C12.23.09820 | 73 | 98 | ≤ 50 | 20 | B |
| C12.23.11320 | 88 | 113 | ≤ 60 | 20 | B |
| C12.23.12820 | 103 | 128 | ≤ 75 | 20 | B |
| C12.23.14320 | 118 | 143 | ≤ 95 | 20 | B |

## PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE



STOCK | 3D WEB

**Notes**

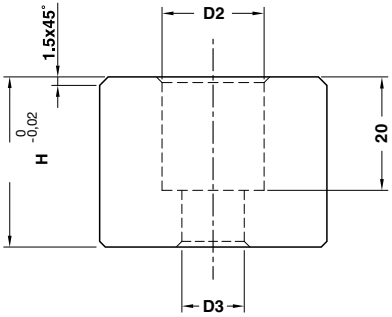
**Material:** 90MnCrV8
**HRC:** 50÷52

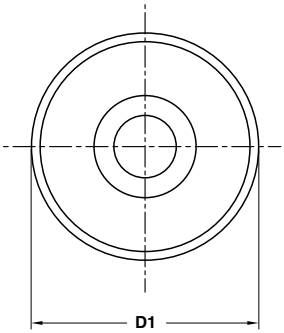
| ORDER EXAMPLE | Art. | L1=100 | L2=80 | H1=20 |
|---|---|---|---|---|
| | C12.24. | 100 | 080 | 20 |

| OMCR CODE | L1 | L2 | L3 | L4 | H1 | H2 | D1 | D2 | D3 |
|---|---|---|---|---|---|---|---|---|---|
| C12.24.04004012 | 40 | 40 | 24 | 24 | 12 | 7 | 7 | 11 | ≤ 20 |
| C12.24.04004015 | 40 | 40 | 21 | 21 | 15 | 10 | 9 | 15 | ≤ 15 |
| C12.24.05002512 | 50 | 25 | 8 | 32 | 12 | 7 | 7 | 11 | ≤ 15 |
| C12.24.05003012 | 50 | 30 | 14 | 35 | 12 | 7 | 7 | 11 | ≤ 20 |
| C12.24.05605620 | 56 | 56 | 32 | 32 | 20 | 13 | 11 | 18 | ≤ 25 |
| C12.24.06006012 | 60 | 60 | 38 | 38 | 12 | 9 | 9 | 15 | ≤ 36 |
| C12.24.06006015 | 60 | 60 | 40 | 40 | 15 | 9 | 9 | 15 | ≤ 36 |
| C12.24.07003515 | 70 | 35 | 14 | 48 | 15 | 9 | 9 | 15 | ≤ 25 |
| C12.24.07005015 | 70 | 50 | 30 | 56 | 15 | 9 | 9 | 15 | ≤ 36 |
| C12.24.07007015 | 70 | 70 | 50 | 50 | 15 | 9 | 9 | 15 | ≤ 50 |
| C12.24.07107120 | 71 | 71 | 48 | 48 | 20 | 13 | 11 | 18 | ≤ 50 |
| C12.24.08506015 | 80 | 60 | 40 | 56 | 15 | 9 | 9 | 15 | ≤ 50 |
| C12.24.09009012 | 90 | 90 | 70 | 70 | 12 | 9 | 9 | 15 | ≤ 75 |
| C12.24.09009020 | 90 | 90 | 67 | 67 | 20 | 13 | 11 | 18 | ≤ 65 |
| C12.24.10008020 | 100 | 80 | 56 | 72 | 20 | 11 | 11 | 18 | ≤ 65 |
| C12.24.10010012 | 100 | 100 | 81 | 81 | 12 | 9 | 9 | 15 | ≤ 90 |
| C12.24.10010020 | 100 | 100 | 74 | 74 | 20 | 11 | 11 | 18 | ≤ 80 |
| C12.24.11010020 | 110 | 100 | 75 | 85 | 20 | 11 | 11 | 18 | ≤ 95 |
| C12.24.11011020 | 110 | 110 | 84 | 84 | 20 | 11 | 11 | 18 | ≤ 95 |
| C12.24.14014020 | 140 | 140 | 110 | 110 | 20 | 13 | 11 | 18 | ≤ 95 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE








STOCK

3D WEB

### Notes

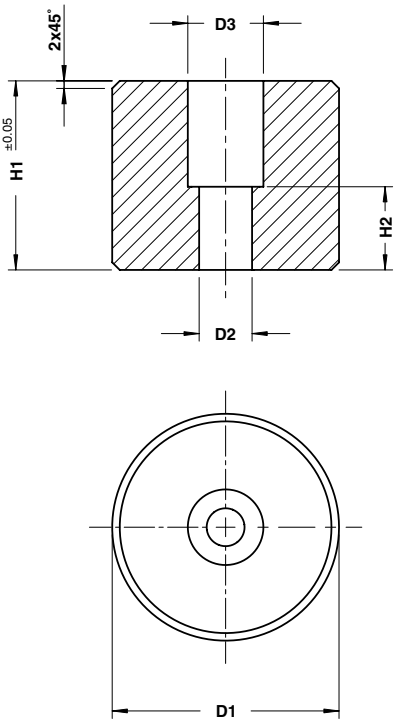
**Material:** CK45

ORDER EXAMPLE

| Art. | D1=40 | H=30 |
|---|---|---|
| C12.25. | 040 | 30 |

| OMCR CODE | D1 | D2 | D3 | H |
|---|---|---|---|---|
| C12.25.04030 | 40 | 18 | 11 | 30 |
| C12.25.06050 | 60 | 20 | 13,5 | 50 |
| C12.25.10050 | 100 | 20 | 13,5 | 50 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






STOCK

3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

**Material:** CK45

Screws not included

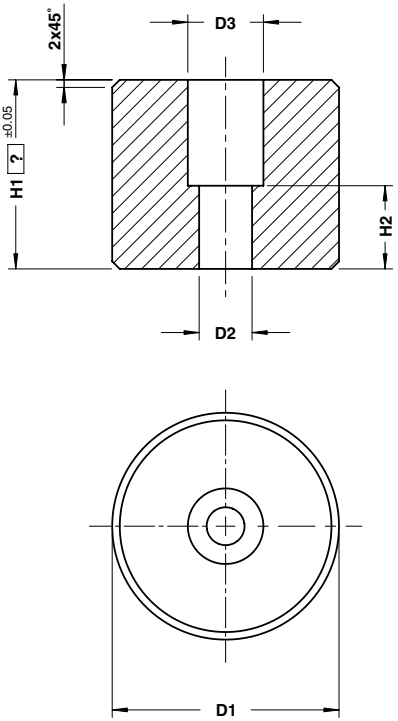
Unpainted

| ORDER EXAMPLE | Art. | D1=60 | H1=40,50 |
|---|---|---|---|
| | C12.26. | 060 | 04050 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE

| D1 | 25 | | 30 | | 40 | | 50 | | 60 | | | 80 | | | 100 | | 120 | | 150 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D2 | 9 | | 9 | | 9 | | 9 | | 14 | | | 14 | | | 18 | | 22 | | 22 | |
| D3 | 15 | | 15 | | 15 | | 15 | | 20 | | | 20 | | | 26 | | 33 | | 33 | |
| Max load (t) | 3,5 | | 8 | | 20 | | 35 | | 55 | | | 100 | | | 170 | | 250 | | 400 | |
| H2 | 10 | 28 | 10 | 28 | 10 | 28 | 10 | 28 | 12 | 22 | 42 | 12 | 22 | 42 | 20 | 36 | 15 | 30 | 15 | 30 |
| Screw DIN EN ISO 4762 | M8x25 | M8x40 | M8x25 | M8x40 | M8x25 | M8x40 | M8x25 | M8x40 | M12x30 | M12x40 | M12x60 | M12x30 | M12x40 | M12x60 | M16x40 | M16x60 | M20x50 | M20x60 | M20x50 | M20x60 |
| **H1** | | | | | | | | | | | | | | | | | | | | |
| 20 | • | | • | | • | | • | | | | | | | | | | | | | |
| 20,3 | • | | • | | • | | • | | | | | | | | | | | | | |
| 20,5 | • | | • | | • | | • | | | | | | | | | | | | | |
| 23 | • | | • | | • | | • | | | | | | | | | | | | | |
| 25 | • | | • | | • | | • | | • | | | | | | | | | | | |
| 28 | • | | • | | • | | • | | • | | | | | | | | | | | |
| 30 | • | | • | | • | | • | | • | | | • | | | | | | | | |
| 30,3 | • | | • | | • | | • | | • | | | • | | | | | | | | |
| 30,5 | • | | • | | • | | • | | • | | | • | | | | | | | | |
| 33 | • | | • | | • | | • | | • | | | • | | | | | | | | |
| 35 | • | | • | | • | | • | | • | | | • | | | | | | | | |
| 38 | • | | • | | • | | • | | • | | | • | | | | | | | | |
| 40 | • | | • | | • | | • | | | • | | | • | | • | | | | | |
| 40,3 | | • | | • | | • | | • | | • | | | • | | • | | | | | |
| 40,5 | | • | | • | | • | | • | | • | | | • | | • | | | | | |
| 41 | | | | • | | • | | • | | • | | | • | | • | | | | | |
| 43 | | | | • | | • | | • | | • | | | • | | • | | | | | |
| 45 | | | | • | | • | | • | | • | | | • | | • | | | | | |
| 48 | | | | • | | • | | • | | • | | | • | | • | | | | | |
| 50 | | | | • | | • | | • | | • | | | • | | • | | • | | • | |
| 50,3 | | | | • | | • | | • | | • | | | • | | • | | • | | • | |
| 50,5 | | | | • | | • | | • | | • | | | • | | • | | • | | • | |
| 51 | | | | | | • | | • | | • | | | • | | • | | • | | • | |
| 55 | | | | | | • | | • | | • | | | • | | • | | • | | • | |
| 60 | | | | | | • | | • | | • | | | • | | • | | • | | • | |
| 60,3 | | | | | | • | | • | | | • | | | • | | • | | • | | • |
| 60,5 | | | | | | • | | • | | | • | | | • | | • | | • | | • |
| 61 | | | | | | | | | | | • | | | • | | • | | • | | • |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






10 3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**Notes**

**Material:** CK45

Screws not included

Unpainted

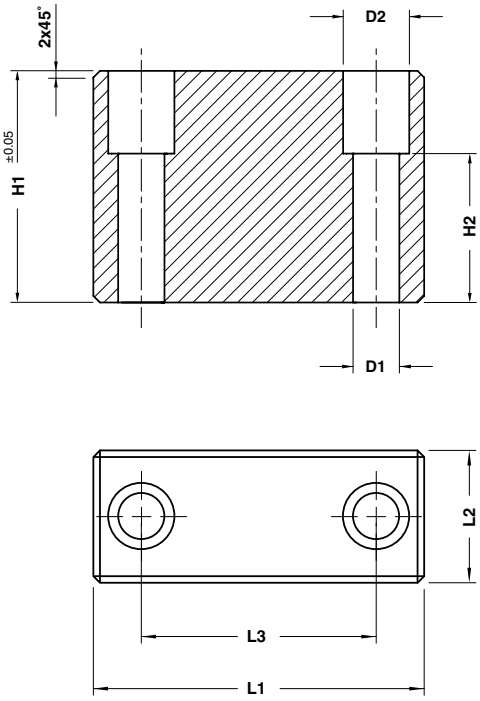
| ORDER EXAMPLE | Art. | D1=80 | H1=45 |
|---|---|---|---|
| | C12.26. | 080 | 04500 |

| OMCR CODE | D1 | D2 | D3 | H1 | H2 | Screw DIN EN ISO 4762 | Max load (t) |
|---|---|---|---|---|---|---|---|
| **C12.26.** | 25 | 9 | 15 | ≥ 20 - 40 | 10 | M8x25 | 3,5 |
| **C12.26.** | 25 | 9 | 15 | > 40 - 60 | 28 | M8x40 | 3,5 |
| **C12.26.** | 30 | 9 | 15 | ≥ 20 - 40 | 10 | M8x25 | 8 |
| **C12.26.** | 30 | 9 | 15 | > 40 - 60 | 28 | M8x40 | 8 |
| **C12.26.** | 40 | 9 | 15 | ≥ 20 - 40 | 10 | M8x25 | 20 |
| **C12.26.** | 40 | 9 | 15 | > 40 - 60 | 28 | M8x40 | 20 |
| **C12.26.** | 50 | 9 | 15 | ≥ 20 - 40 | 10 | M8x25 | 35 |
| **C12.26.** | 50 | 9 | 15 | > 40 - 60 | 28 | M8x40 | 35 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE

| OMCR CODE | D1 | D2 | D3 | H1 | H2 | Screw DIN EN ISO 4762 | Max load (t) |
|---|---|---|---|---|---|---|---|
| **C12.26.** | 60 | 14 | 20 | ≥ 25 < 40 | 12 | M12x30 | 55 |
| **C12.26.** | 60 | 14 | 20 | ≥ 40 - 60 | 22 | M12x40 | 55 |
| **C12.26.** | 60 | 14 | 20 | > 60 - 80 | 42 | M12x60 | 55 |
| **C12.26.** | 60 | 14 | 20 | > 80 - 100 | 62 | M12x80 | 55 |
| **C12.26.** | 60 | 14 | 20 | > 100 - 120 | 82 | M12x100 | 55 |
| **C12.26.** | 60 | 14 | 20 | > 120 - 140 | 102 | M12x120 | 55 |
| **C12.26.** | 60 | 14 | 20 | > 140 - 160 | 122 | M12x140 | 55 |
| **C12.26.** | 80 | 14 | 20 | ≥ 25 < 40 | 12 | M12x30 | 100 |
| **C12.26.** | 80 | 14 | 20 | ≥ 40 - 60 | 20 | M12x40 | 100 |
| **C12.26.** | 80 | 14 | 20 | > 60 - 80 | 36 | M12x60 | 100 |
| **C12.26.** | 80 | 14 | 20 | > 80 - 100 | 56 | M12x80 | 100 |
| **C12.26.** | 80 | 14 | 20 | > 100 - 120 | 76 | M12x100 | 100 |
| **C12.26.** | 80 | 14 | 20 | > 120 - 140 | 96 | M12x120 | 100 |
| **C12.26.** | 80 | 14 | 20 | > 140 - 160 | 116 | M12x140 | 100 |
| **C12.26.** | 100 | 18 | 26 | ≥ 40 - 60 | 20 | M16x40 | 170 |
| **C12.26.** | 100 | 18 | 26 | > 60 - 80 | 36 | M16x60 | 170 |
| **C12.26.** | 100 | 18 | 26 | > 80 - 100 | 56 | M16x80 | 170 |
| **C12.26.** | 100 | 18 | 26 | > 100 - 120 | 76 | M16x100 | 170 |
| **C12.26.** | 100 | 18 | 26 | > 120 - 140 | 96 | M16x120 | 170 |
| **C12.26.** | 100 | 18 | 26 | > 140 - 160 | 116 | M16x140 | 170 |
| **C12.26.** | 120 | 22 | 33 | ≥ 40 - 60 | 15 | M20x40 | 250 |
| **C12.26.** | 120 | 22 | 33 | > 60 - 80 | 30 | M20x60 | 250 |
| **C12.26.** | 120 | 22 | 33 | > 80 - 100 | 50 | M20x80 | 250 |
| **C12.26.** | 120 | 22 | 33 | > 100 - 120 | 70 | M20x100 | 250 |
| **C12.26.** | 120 | 22 | 33 | > 120 - 140 | 90 | M20x120 | 250 |
| **C12.26.** | 120 | 22 | 33 | > 140 - 160 | 110 | M20x140 | 250 |
| **C12.26.** | 150 | 22 | 33 | ≥ 40 - 60 | 15 | M20x40 | 400 |
| **C12.26.** | 150 | 22 | 33 | > 60 - 80 | 30 | M20x60 | 400 |
| **C12.26.** | 150 | 22 | 33 | > 80 - 100 | 50 | M20x80 | 400 |
| **C12.26.** | 150 | 22 | 33 | > 100 - 120 | 70 | M20x100 | 400 |
| **C12.26.** | 150 | 22 | 33 | > 120 - 140 | 90 | M20x120 | 400 |
| **C12.26.** | 150 | 22 | 33 | > 140 - 160 | 110 | M20x140 | 400 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






STOCK

3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

**Material:** CK45

Screws not included

Unpainted

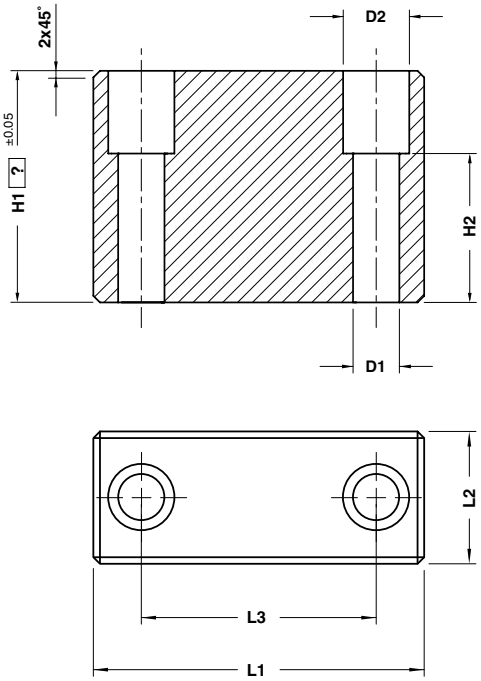
ORDER EXAMPLE

| Art. | L1=60 | L2=40 | H1=60,5 |
|---|---|---|---|
| C12.27. | 060 | 040 | 06050 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE

| L1 x L2 | 60 x 40 | | | 80 x 40 | | | 100 x 40 | | | 100 x 50 | | | 120 x 60 | | | 150 x 80 | | 160 x 100 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1 | 9 | | | 11 | | | 14 | | | 14 | | | 14 | | | 18 | | 18 | |
| D2 | 15 | | | 18 | | | 20 | | | 20 | | | 20 | | | 26 | | 26 | |
| Max load (t) | 50 | | | 65 | | | 85 | | | 110 | | | 160 | | | 270 | | 380 | |
| L3 | 40 | | | 56 | | | 71 | | | 76 | | | 93 | | | 120 | | 130 | |
| H2 | 10 | 28 | 48 | 8 | 25 | 45 | 6 | 22 | 42 | 6 | 22 | 42 | 6 | 22 | 42 | 18 | 38 | 18 | 38 |
| Screw DIN EN ISO 4762 | M8x25 | M8x40 | M8x60 | M10x25 | M10x40 | M10x60 | M12x25 | M12x40 | M12x60 | M12x25 | M12x40 | M12x60 | M12x25 | M12x40 | M12x60 | M16x40 | M16x60 | M16x40 | M16x60 |
| H1 | | | | | | | | | | | | | | | | | | | |
| 20 | • | | | • | | | | | | | | | | | | | | | |
| 20,3 | • | | | • | | | | | | | | | | | | | | | |
| 20,5 | • | | | • | | | | | | | | | | | | | | | |
| 23 | • | | | • | | | | | | | | | | | | | | | |
| 25 | • | | | • | | | • | | | | | | | | | | | | |
| 28 | • | | | • | | | • | | | | | | | | | | | | |
| 30 | • | | | • | | | • | | | • | | | | | | | | | |
| 30,3 | • | | | • | | | • | | | • | | | | | | | | | |
| 30,5 | • | | | • | | | • | | | • | | | | | | | | | |
| 33 | • | | | • | | | • | | | • | | | | | | | | | |
| 35 | • | | | • | | | • | | | • | | | | | | | | | |
| 38 | • | | | • | | | • | | | • | | | | | | | | | |
| 40 | • | | | • | | | • | | | • | | | • | | | • | | • | |
| 40,3 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 40,5 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 41 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 43 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 45 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 48 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 50 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 50,3 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 50,5 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 51 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 55 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 60 | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 60,5 | | | • | | | • | | | • | | | • | | | • | | • | | • | |
| 61 | | | | | | | | | • | | | • | | | • | | • | | • | |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






10 3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**Notes**

**Material:** CK45

Screws not included

Unpainted

ORDER EXAMPLE

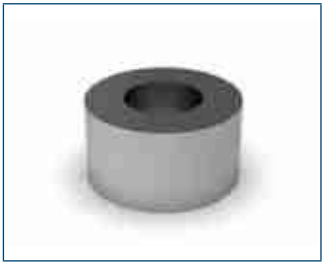
| Art. | L1=150 | L2=80 | H1=85 |
|---|---|---|---|
| C12.27. | 150 | 080 | 08500 |

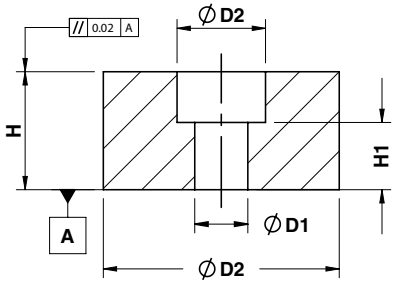
| OMCR CODE | D1 | D2 | H1 | H2 | L1 | L2 | L3 | Screw DIN EN ISO 4762 | Max load (t) |
|---|---|---|---|---|---|---|---|---|---|
| C12.27. | 9 | 15 | ≥ 20 - 40 | 10 | 60 | 40 | 40 | M8x25 | 50 |
| C12.27. | 9 | 15 | > 40 - 60 | 28 | 60 | 40 | 40 | M8x40 | 50 |
| C12.27. | 9 | 15 | > 60 - 80 | 48 | 60 | 40 | 40 | M8x60 | 50 |
| C12.27. | 9 | 15 | > 80 - 100 | 68 | 60 | 40 | 40 | M8x80 | 50 |
| C12.27. | 9 | 15 | > 100 - 120 | 68 | 60 | 40 | 40 | M8x80 | 50 |
| C12.27. | 9 | 15 | > 120 - 140 | 68 | 60 | 40 | 40 | M8x80 | 50 |
| C12.27. | 9 | 15 | > 140 - 160 | 68 | 60 | 40 | 40 | M8x80 | 50 |
| C12.27. | 11 | 18 | ≥ 20 - 40 | 8 | 80 | 40 | 56 | M10x25 | 65 |
| C12.27. | 11 | 18 | > 40 - 60 | 25 | 80 | 40 | 56 | M10x40 | 65 |
| C12.27. | 11 | 18 | > 60 - 80 | 45 | 80 | 40 | 56 | M10x60 | 65 |
| C12.27. | 11 | 18 | > 80 - 100 | 65 | 80 | 40 | 56 | M10x80 | 65 |
| C12.27. | 11 | 18 | > 100 - 120 | 85 | 80 | 40 | 56 | M10x100 | 65 |
| C12.27. | 11 | 18 | > 120 - 140 | 105 | 80 | 40 | 56 | M10x120 | 65 |
| C12.27. | 11 | 18 | > 140 - 160 | 105 | 80 | 40 | 56 | M10x120 | 65 |
| C12.27. | 14 | 20 | ≥ 20 - 40 | 6 | 100 | 40 | 71 | M12x25 | 85 |
| C12.27. | 14 | 20 | > 40 - 60 | 22 | 100 | 40 | 71 | M12x40 | 85 |
| C12.27. | 14 | 20 | > 60 - 80 | 42 | 100 | 40 | 71 | M12x60 | 85 |
| C12.27. | 14 | 20 | > 80 - 100 | 62 | 100 | 40 | 71 | M12x80 | 85 |
| C12.27. | 14 | 20 | > 100 - 120 | 82 | 100 | 40 | 71 | M12x100 | 85 |
| C12.27. | 14 | 20 | > 120 - 140 | 102 | 100 | 40 | 71 | M12x120 | 85 |

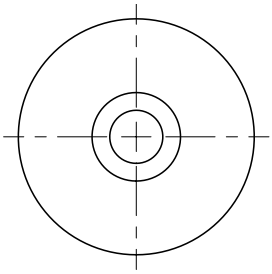
## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE

| OMCR CODE | D1 | D2 | H1 | H2 | L1 | L2 | L3 | Screw DIN EN ISO 4762 | Max load (t) |
|---|---|---|---|---|---|---|---|---|---|
| **C12.27.** | 14 | 20 | > 140 - 160 | 122 | 100 | 40 | 71 | M12x140 | 85 |
| **C12.27.** | 14 | 20 | ≥ 20 - 40 | 6 | 100 | 50 | 76 | M12x25 | 110 |
| **C12.27.** | 14 | 20 | > 40 - 60 | 22 | 100 | 50 | 76 | M12x40 | 110 |
| **C12.27.** | 14 | 20 | > 60 - 80 | 42 | 100 | 50 | 76 | M12x60 | 110 |
| **C12.27.** | 14 | 20 | > 80 - 100 | 62 | 100 | 50 | 76 | M12x80 | 110 |
| **C12.27.** | 14 | 20 | > 100 - 120 | 82 | 100 | 50 | 76 | M12x100 | 110 |
| **C12.27.** | 14 | 20 | > 120 - 140 | 102 | 100 | 50 | 76 | M12x120 | 110 |
| **C12.27.** | 14 | 20 | > 140 - 160 | 122 | 100 | 50 | 76 | M12x140 | 110 |
| **C12.27.** | 14 | 20 | ≥ 20 - 40 | 6 | 120 | 60 | 93 | M12x25 | 160 |
| **C12.27.** | 14 | 20 | > 40 - 60 | 22 | 120 | 60 | 93 | M12x40 | 160 |
| **C12.27.** | 14 | 20 | > 60 - 80 | 42 | 120 | 60 | 93 | M12x60 | 160 |
| **C12.27.** | 14 | 20 | > 80 - 100 | 62 | 120 | 60 | 93 | M12x80 | 160 |
| **C12.27.** | 14 | 20 | > 100 - 120 | 82 | 120 | 60 | 93 | M12x100 | 160 |
| **C12.27.** | 14 | 20 | > 120 - 140 | 102 | 120 | 60 | 93 | M12x120 | 160 |
| **C12.27.** | 14 | 20 | > 140 - 160 | 122 | 120 | 60 | 93 | M12x140 | 160 |
| **C12.27.** | 18 | 26 | > 40 - 60 | 18 | 150 | 80 | 120 | M16x40 | 270 |
| **C12.27.** | 18 | 26 | > 60 - 80 | 38 | 150 | 80 | 120 | M16x60 | 270 |
| **C12.27.** | 18 | 26 | > 80 - 100 | 58 | 150 | 80 | 120 | M16x80 | 270 |
| **C12.27.** | 18 | 26 | > 100 - 120 | 78 | 150 | 80 | 120 | M16x100 | 270 |
| **C12.27.** | 18 | 26 | > 120 - 140 | 98 | 150 | 80 | 120 | M16x120 | 270 |
| **C12.27.** | 18 | 26 | > 140 - 160 | 118 | 150 | 80 | 120 | M16x140 | 270 |
| **C12.27.** | 18 | 26 | > 40 - 60 | 18 | 160 | 100 | 130 | M16x40 | 380 |
| **C12.27.** | 18 | 26 | > 60 - 80 | 38 | 160 | 100 | 130 | M16x60 | 380 |
| **C12.27.** | 18 | 26 | > 80 - 100 | 58 | 160 | 100 | 130 | M16x80 | 380 |
| **C12.27.** | 18 | 26 | > 100 - 120 | 78 | 160 | 100 | 130 | M16x100 | 380 |
| **C12.27.** | 18 | 26 | > 120 - 140 | 98 | 160 | 100 | 130 | M16x120 | 380 |
| **C12.27.** | 18 | 26 | > 140 - 160 | 118 | 160 | 100 | 130 | M16x140 | 380 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE





10 3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**Notes**

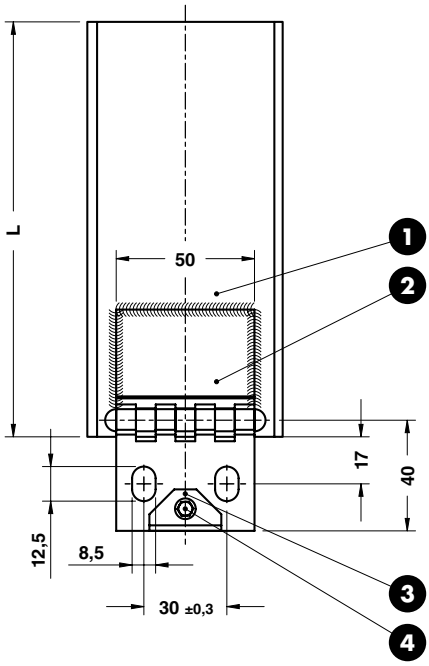
**Material:** CK45

Screws not included

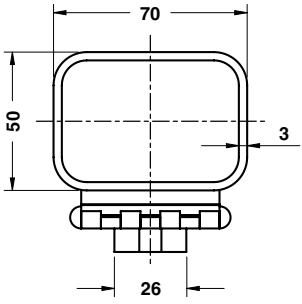
Unpainted

| ORDER EXAMPLE | Art. | D=70 | H=30 | Screw |
|---|---|---|---|---|
| | C12.28. | 070 | 030 | M12 |

| OMCR CODE | D | D1 | D2 | H | H1 | Screw |
|---|---|---|---|---|---|---|
| C12.28.040020M12 | 40 | 13 | 20 | 20 | 6 | M12 |
| C12.28.070030M08 | 70 | 9 | 15 | 30 | 16 | M08 |
| C12.28.070030M12 | 70 | 13 | 20 | 30 | 15 | M12 |




TYPE 02



## SPACING BAR - ABSTELLBOLZEN - DISTANZIALE



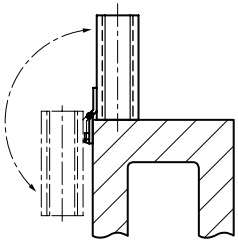
⚠

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** St37
2. AHA Hinge
3. **Material:** Elastomer 68SH
4. Screw M4x8 - DIN912

### Application example





STOCK ... 3D WEB

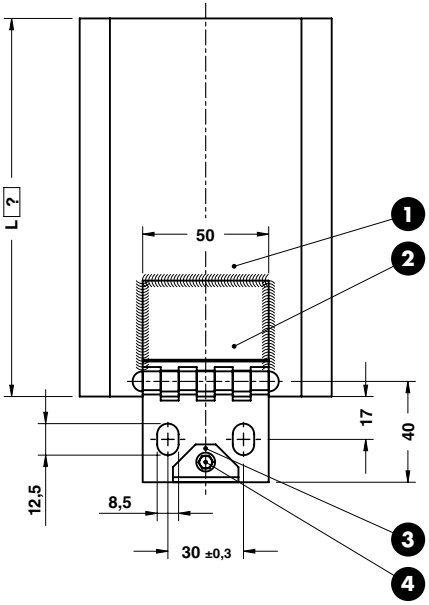
| ORDER EXAMPLE | Art. | TYPE | L=70 |
|---|---|---|---|
| | C12.30. | 02 | 070 |

| OMCR CODE | TYPE | L | Max load (kN) |
|---|---|---|---|
| C12.30.02065 | 02 | 65 | 100 |
| C12.30.02070 | 02 | 70 | 100 |
| C12.30.02075 | 02 | 75 | 100 |
| C12.30.02080 | 02 | 80 | 100 |
| C12.30.02085 | 02 | 85 | 100 |
| C12.30.02090 | 02 | 90 | 100 |
| C12.30.02095 | 02 | 95 | 100 |
| C12.30.02100 | 02 | 100 | 100 |
| C12.30.02105 | 02 | 105 | 100 |
| C12.30.02110 | 02 | 110 | 100 |
| C12.30.02115 | 02 | 115 | 100 |
| C12.30.02120 | 02 | 120 | 100 |
| C12.30.02125 | 02 | 125 | 100 |
| C12.30.02130 | 02 | 130 | 100 |
| C12.30.02135 | 02 | 135 | 100 |
| C12.30.02140 | 02 | 140 | 100 |

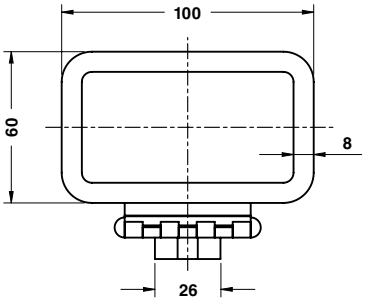
| OMCR CODE | TYPE | L | Max load (kN) |
|---|---|---|---|
| C12.30.02150 | 02 | 150 | 100 |
| C12.30.02155 | 02 | 155 | 100 |
| C12.30.02160 | 02 | 160 | 100 |
| C12.30.02165 | 02 | 165 | 100 |
| C12.30.02170 | 02 | 170 | 100 |
| C12.30.02175 | 02 | 175 | 100 |
| C12.30.02180 | 02 | 180 | 100 |
| C12.30.02185 | 02 | 185 | 100 |
| C12.30.02190 | 02 | 190 | 100 |
| C12.30.02195 | 02 | 195 | 100 |
| C12.30.02200 | 02 | 200 | 100 |
| C12.30.02205 | 02 | 205 | 100 |
| C12.30.02210 | 02 | 210 | 100 |
| C12.30.02215 | 02 | 215 | 100 |
| C12.30.02220 | 02 | 220 | 100 |
| C12.30.02225 | 02 | 225 | 100 |

| OMCR CODE | TYPE | L | Max load (kN) |
|---|---|---|---|
| C12.30.02230 | 02 | 230 | 100 |
| C12.30.02235 | 02 | 235 | 100 |
| C12.30.02240 | 02 | 240 | 100 |
| C12.30.02245 | 02 | 245 | 100 |
| C12.30.02250 | 02 | 250 | 100 |
| C12.30.02260 | 02 | 260 | 100 |
| C12.30.02270 | 02 | 270 | 100 |
| C12.30.02280 | 02 | 280 | 100 |
| C12.30.02290 | 02 | 290 | 100 |
| C12.30.02300 | 02 | 300 | 100 |
| C12.30.02310 | 02 | 310 | 100 |
| C12.30.02320 | 02 | 320 | 100 |
| C12.30.02330 | 02 | 330 | 100 |
| C12.30.02340 | 02 | 340 | 100 |
| C12.30.02350 | 02 | 350 | 100 |

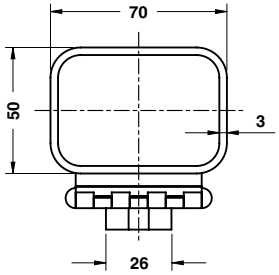
## SPACING BAR - ABSTELLBOLZEN - DISTANZIALE




**TYPE 01**




**TYPE 02**






10 ... 3D WEB

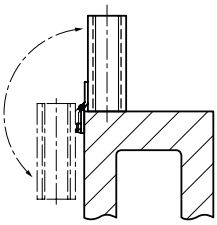
L max. = 400

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** St37
2. AHA Hinge
3. **Material:** Elastomer 68SH
4. Screw M4x8 - DIN912

### Application example

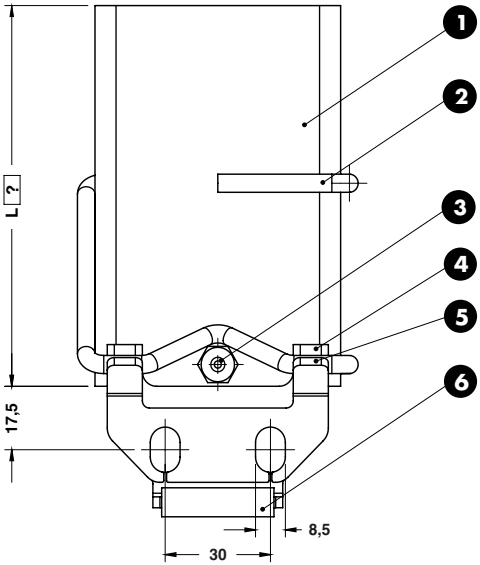


| ORDER EXAMPLE | Art. | TYPE | L=200 |
|---|---|---|---|
| | C12.30. | 01 | 200 |

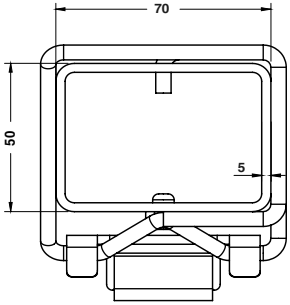
| OMCR CODE | TYPE | Max load (kN) |
|---|---|---|
| C12.30. | 01 | 300 |
| C12.30. | 02 | 100 |

## SPACING BAR - ABSTELLBOLZEN - DISTANZIALE

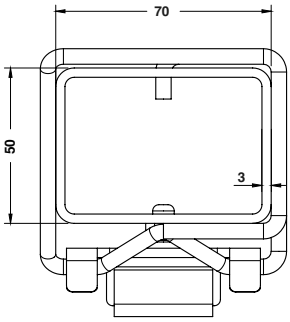


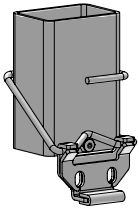



**TYPE 03**




**TYPE 04**



10 ... 3D WEB

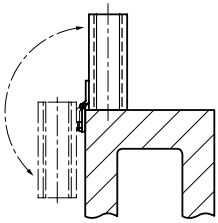
80 ≤ L ≥ 400

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** St37
2. Steel spring
3. Rivet
4. Plate
5. Plate
6. PVC

### Application example



| ORDER EXAMPLE | Art. | TYPE | L=200 |
|---|---|---|---|
| | C12.30. | 03 | 200 |

| OMCR CODE | TYPE | Max load (kN) |
|---|---|---|
| C12.30. | 03 | 235 |
| C12.30. | 04 | 125 |

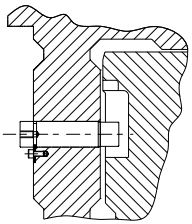
# PAD RETAINER PIN VDI 3365 - STECKBOLZEN VDI 3365 - PERNO DI ARRESTO VDI 3365

Respect the dynamic load
Dynamische Last berücksichtigen
Rispettare il carico dinamico

## Notes

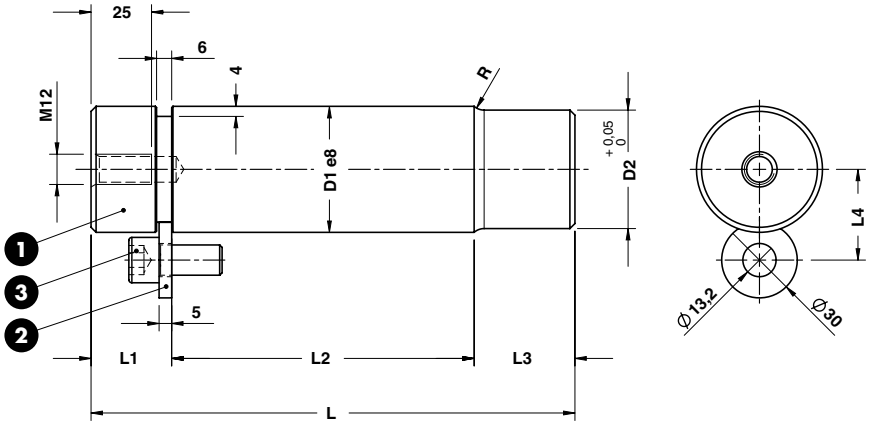
1. **Material:** 42CrMo4 800÷1000 N/mm²
2. **Material:** CK45
3. Screw M12x20 - DIN 912

## Application example





STOCK ... 3D WEB




| ORDER EXAMPLE | Art. | D1=32 | L=105 |
|---|---|---|---|
| | C13.10. | 32 | 105 |

| OMCR CODE | D1 | D2 | L | L1 | L2 | L3 | L4 | R | Dynamic load (kN) |
|---|---|---|---|---|---|---|---|---|---|
| C13.10.32105 | 32 | 29 | 105 | 22 | 58 | 25 | 27 | 4 | 3 |
| C13.10.32122 | 32 | 29 | 122 | 22 | 75 | 25 | 27 | 4 | 3 |
| C13.10.40139 | 40 | 37 | 139 | 32 | 75 | 32 | 31 | 5 | 5 |
| C13.10.40159 | 40 | 37 | 159 | 32 | 95 | 32 | 31 | 5 | 5 |
| C13.10.50167 | 50 | 47 | 167 | 32 | 95 | 40 | 36 | 6 | 7,5 |
| C13.10.50192 | 50 | 47 | 192 | 32 | 120 | 40 | 36 | 6 | 7,5 |
| C13.10.63202 | 63 | 60 | 202 | 32 | 120 | 50 | 42,5 | 6 | 12,5 |
| C13.10.63237 | 63 | 60 | 237 | 32 | 155 | 50 | 42,5 | 6 | 12,5 |

# PAD RETAINER PIN VDI 3365 - STECKBOLZEN VDI 3365 - PERNO DI ARRESTO VDI 3365

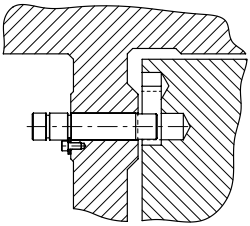


Respect the dynamic load
Dynamische Last berücksichtigen
Rispettare il carico dinamico

## Notes

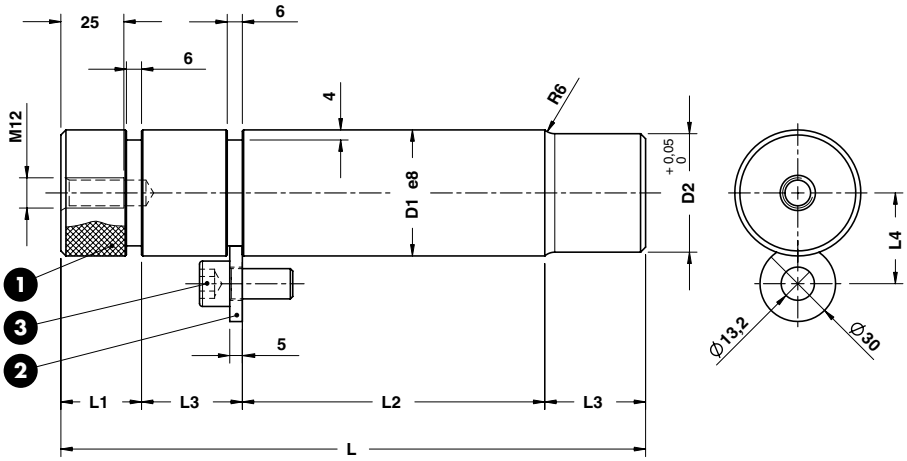
1. **Material:** 42CrMo4 800÷1000 N/mm²
2. **Material:** CK45
3. Screw M12x20 - DIN 912

## Application example





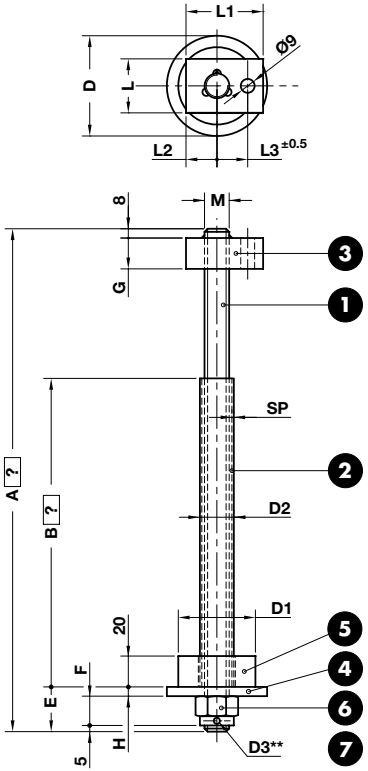
STOCK ... 3D WEB




| ORDER EXAMPLE | Art. | D1=32 | L=130 |
|---|---|---|---|
| | C13.11. | 32 | 130 |

| OMCR CODE | D1 | D2 | L | L1 | L2 | L3 | L4 | R | Dynamic load (kN) |
|---|---|---|---|---|---|---|---|---|---|
| C13.11.32130 | 32 | 29 | 130 | 22 | 58 | 25 | 27 | 4 | 3 |
| C13.11.32147 | 32 | 29 | 147 | 22 | 75 | 25 | 27 | 4 | 3 |
| C13.11.40171 | 40 | 37 | 171 | 32 | 75 | 32 | 31 | 5 | 5 |
| C13.11.40191 | 40 | 37 | 191 | 32 | 95 | 32 | 31 | 5 | 5 |
| C13.11.50207 | 50 | 47 | 207 | 32 | 95 | 40 | 36 | 6 | 7,5 |
| C13.11.50232 | 50 | 47 | 232 | 32 | 120 | 40 | 36 | 6 | 7,5 |
| C13.11.63252 | 63 | 60 | 252 | 32 | 120 | 50 | 42,5 | 6 | 12,5 |
| C13.11.63287 | 63 | 60 | 287 | 32 | 155 | 50 | 42,5 | 6 | 12,5 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE




** Drill hole in rod for copper pin at assembly
Bohrung für splint durchzufuhren bei der montage
Foro per copiglia da eseguire al montaggio



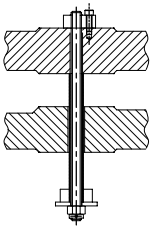
10 ... 3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. 3. **Material:** St37
4. **Material:** CK45
5. Elastomer 92SH
6. DIN 935 cl. 8.8
7. DIN 94

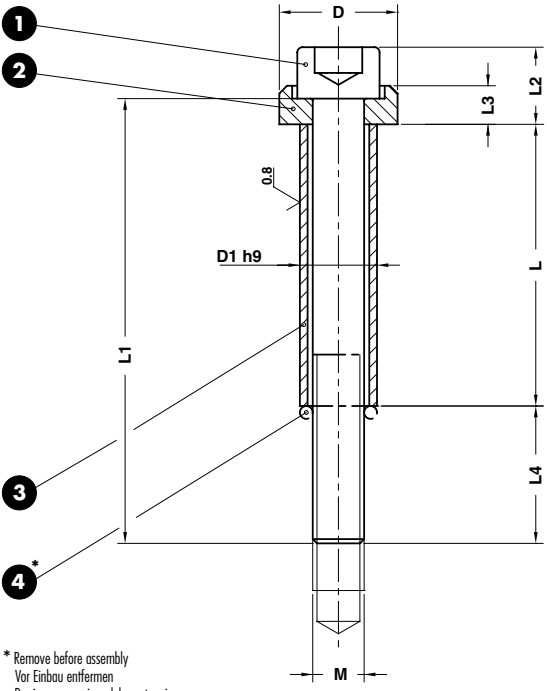
### Application example



| ORDER EXAMPLE | Art. | M=M30 | A=100 | B=60 |
|---|---|---|---|---|
| | C13.20. | M30 | 100 | 60 |

| OMCR CODE | D | D1 | D2 | D3 | SP | E | F | G | H | L | L1 | L2 | L3 | M | Max load (kN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C13.20. | 65 | 50 | 22 | 4 | 2,5 | 30 | 19 | 20 | 6 | 35 | 50 | 20 | 20 | M16 | 2,5 |
| C13.20. | 82 | 63 | 25 | 4 | 2 | 35 | 22 | 20 | 8 | 40 | 50 | 20 | 20 | M20 | 4,5 |
| C13.20. | 105 | 80 | 30 | 5 | 2,5 | 42 | 27 | 20 | 10 | 45 | 50 | 20 | 20 | M24 | 7,5 |
| C13.20. | 130 | 100 | 38 | 6,3 | 3,5 | 50 | 33 | 25 | 12 | 50 | 63 | 28 | 26 | M30 | 12,5 |

## GROUND COLLAR SCREW - SCHRAUBE MIT DISTANZROHR - VITE CON COLLETTO




* Remove before assembly
Vor Einbau entfernen
Da rimuovere prima del montaggio

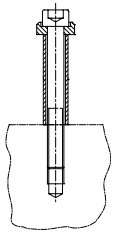


STOCK ... 3D WEB

### Notes

1. DIN 912 cl. 12.9
2. **Material:** Steel 1000 N/mm²
3. **Material:** Steel 1200÷1400 N/mm²
4. O-Ring*

### Application example



| ORDER EXAMPLE | Art. | M=M6 | L=70 |
|---|---|---|---|
| | C13.24. | M06 | 070 |

| OMCR CODE | D | D1 | L | L1 | L2 | L3 | L4 | M |
|---|---|---|---|---|---|---|---|---|
| C13.24.M06020 | 15 | 10 | 20 | 35 | 10 | 5,5 | 11 | M6 |
| C13.24.M06025 | 15 | 10 | 25 | 40 | 10 | 5,5 | 11 | M6 |
| C13.24.M06030 | 15 | 10 | 30 | 45 | 10 | 5,5 | 11 | M6 |
| C13.24.M06035 | 15 | 10 | 35 | 50 | 10 | 5,5 | 11 | M6 |
| C13.24.M06040 | 15 | 10 | 40 | 55 | 10 | 5,5 | 11 | M6 |
| C13.24.M06045 | 15 | 10 | 45 | 60 | 10 | 5,5 | 11 | M6 |
| C13.24.M06050 | 15 | 10 | 50 | 65 | 10 | 5,5 | 11 | M6 |
| C13.24.M06055 | 15 | 10 | 55 | 70 | 10 | 5,5 | 11 | M6 |
| C13.24.M06060 | 15 | 10 | 60 | 80 | 10 | 5,5 | 16 | M6 |
| C13.24.M06070 | 15 | 10 | 70 | 90 | 10 | 5,5 | 16 | M6 |
| C13.24.M06080 | 15 | 10 | 80 | 100 | 10 | 5,5 | 16 | M6 |
| C13.24.M06090 | 15 | 10 | 90 | 110 | 10 | 5,5 | 16 | M6 |
| C13.24.M06100 | 15 | 10 | 100 | 120 | 10 | 5,5 | 16 | M6 |
| C13.24.M08030 | 19 | 12,5 | 30 | 45 | 13 | 6,5 | 10 | M8 |
| C13.24.M08035 | 19 | 12,5 | 35 | 50 | 13 | 6,5 | 10 | M8 |
| C13.24.M08040 | 19 | 12,5 | 40 | 55 | 13 | 6,5 | 10 | M8 |
| C13.24.M08045 | 19 | 12,5 | 45 | 60 | 13 | 6,5 | 10 | M8 |

## GROUND COLLAR SCREW - SCHRAUBE MIT DISTANZROHR - VITE CON COLLETTO

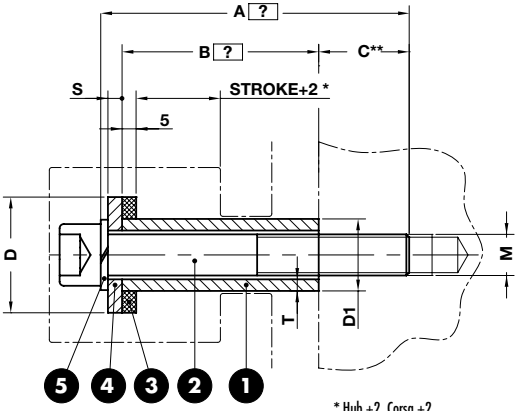


| OMCR CODE | D | D1 | L | L1 | L2 | L3 | L4 | M |
|---|---|---|---|---|---|---|---|---|
| C13.24.M08050 | 19 | 12,5 | 50 | 65 | 13 | 6,5 | 10 | M8 |
| C13.24.M08055 | 19 | 12,5 | 55 | 70 | 13 | 6,5 | 10 | M8 |
| C13.24.M08060 | 19 | 12,5 | 60 | 80 | 13 | 6,5 | 15 | M8 |
| C13.24.M08070 | 19 | 12,5 | 70 | 90 | 13 | 6,5 | 15 | M8 |
| C13.24.M08080 | 19 | 12,5 | 80 | 100 | 13 | 6,5 | 15 | M8 |
| C13.24.M08090 | 19 | 12,5 | 90 | 110 | 13 | 6,5 | 15 | M8 |
| C13.24.M08100 | 19 | 12,5 | 100 | 120 | 13 | 6,5 | 15 | M8 |
| C13.24.M10030 | 23 | 15 | 30 | 50 | 15 | 7,5 | 15 | M10 |
| C13.24.M10035 | 23 | 15 | 35 | 55 | 15 | 7,5 | 15 | M10 |
| C13.24.M10040 | 23 | 15 | 40 | 60 | 15 | 7,5 | 15 | M10 |
| C13.24.M10045 | 23 | 15 | 45 | 65 | 15 | 7,5 | 15 | M10 |
| C13.24.M10050 | 23 | 15 | 50 | 70 | 15 | 7,5 | 15 | M10 |
| C13.24.M10055 | 23 | 15 | 55 | 75 | 15 | 7,5 | 15 | M10 |
| C13.24.M10060 | 23 | 15 | 60 | 80 | 15 | 7,5 | 15 | M10 |
| C13.24.M10070 | 23 | 15 | 70 | 90 | 15 | 7,5 | 15 | M10 |
| C13.24.M10080 | 23 | 15 | 80 | 100 | 15 | 7,5 | 15 | M10 |
| C13.24.M10090 | 23 | 15 | 90 | 110 | 15 | 7,5 | 15 | M10 |
| C13.24.M10100 | 23 | 15 | 100 | 120 | 15 | 7,5 | 15 | M10 |
| C13.24.M10120 | 23 | 15 | 120 | 140 | 15 | 7,5 | 15 | M10 |
| C13.24.M12030 | 27 | 17,5 | 30 | 50 | 18 | 9 | 14 | M12 |
| C13.24.M12040 | 27 | 17,5 | 40 | 60 | 18 | 9 | 14 | M12 |
| C13.24.M12045 | 27 | 17,5 | 45 | 65 | 18 | 9 | 14 | M12 |
| C13.24.M12050 | 27 | 17,5 | 50 | 70 | 18 | 9 | 14 | M12 |
| C13.24.M12055 | 27 | 17,5 | 55 | 80 | 18 | 9 | 19 | M12 |
| C13.24.M12060 | 27 | 17,5 | 60 | 90 | 18 | 9 | 24 | M12 |
| C13.24.M12070 | 27 | 17,5 | 70 | 100 | 18 | 9 | 24 | M12 |
| C13.24.M12080 | 27 | 17,5 | 80 | 110 | 18 | 9 | 24 | M12 |
| C13.24.M12090 | 27 | 17,5 | 90 | 120 | 18 | 9 | 24 | M12 |
| C13.24.M12100 | 27 | 17,5 | 100 | 130 | 18 | 9 | 24 | M12 |
| C13.24.M12110 | 27 | 17,5 | 110 | 140 | 18 | 9 | 24 | M12 |
| C13.24.M12120 | 27 | 17,5 | 120 | 150 | 18 | 9 | 24 | M12 |
| C13.24.M12140 | 27 | 17,5 | 140 | 180 | 18 | 9 | 24 | M12 |
| C13.24.M16050 | 34 | 23 | 50 | 80 | 24 | 11 | 22 | M16 |
| C13.24.M16060 | 34 | 23 | 60 | 90 | 24 | 11 | 22 | M16 |
| C13.24.M16070 | 34 | 23 | 70 | 100 | 24 | 11 | 22 | M16 |
| C13.24.M16080 | 34 | 23 | 80 | 110 | 24 | 11 | 22 | M16 |
| C13.24.M16090 | 34 | 23 | 90 | 120 | 24 | 11 | 22 | M16 |
| C13.24.M16100 | 34 | 23 | 100 | 130 | 24 | 11 | 22 | M16 |
| C13.24.M16110 | 34 | 23 | 110 | 140 | 24 | 11 | 22 | M16 |
| C13.24.M16120 | 34 | 23 | 120 | 150 | 24 | 11 | 22 | M16 |
| C13.24.M16140 | 34 | 23 | 140 | 180 | 24 | 11 | 32 | M16 |
| C13.24.M16150 | 34 | 23 | 150 | 180 | 24 | 11 | 22 | M16 |
| C13.24.M16160 | 34 | 23 | 160 | 200 | 24 | 11 | 32 | M16 |

# C13.25.?

OMCR

## PAD RETAINER - HALTEELEMENT - GRUPPO TIRANTE




10 ...

3D WEB



| ORDER EXAMPLE | Art. | M=M10 | A=100 | B=76 |
|---|---|---|---|---|
| | C13.25. | M10 | A100 | B076 |

* Hub +2, Corsa +2

** 1,5 x d on steel, auf stahl, su acciaio
2 x d on cast iron, auf gusseisen, su ghisa

| OMCR CODE | D | D1 | M | S | T | Max load (kN) |
|---|---|---|---|---|---|---|
| C13.25. | 32 | 16 | M10 | 4 | 2,5 | 1 |
| C13.25. | 36 | 20 | M12 | 6 | 3,5 | 1,5 |
| C13.25. | 45 | 28 | M16 | 6 | 5,5 | 2,5 |

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

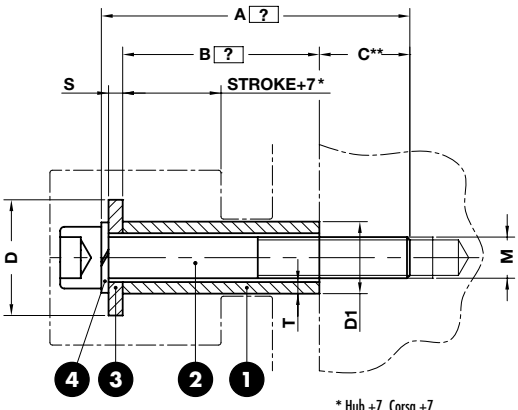
### Notes

1. **Material:** St37
2. DIN 912 cl. 8.8
3. **Material:** Elastomer 92SH
4. **Material:** CK45
5. DIN 127

# C13.26.?

OMCR

## PAD RETAINER - HALTEELEMENT - GRUPPO TIRANTE




10 ...

3D WEB



| ORDER EXAMPLE | Art. | M=M10 | A=100 | B=76 |
|---|---|---|---|---|
| | C13.26. | M10 | A100 | B076 |

* Hub +7, Corsa +7

** 1,5 x d on steel, auf stahl, su acciaio
2 x d on cast iron, auf gusseisen, su ghisa

| OMCR CODE | D | D1 | M | S | T | Max load (kN) |
|---|---|---|---|---|---|---|
| C13.26. | 25 | 16 | M10 | 4 | 2,5 | 1 |
| C13.26. | 30 | 20 | M12 | 6 | 3,5 | 1,5 |
| C13.26. | 40 | 28 | M16 | 6 | 5,5 | 2,5 |

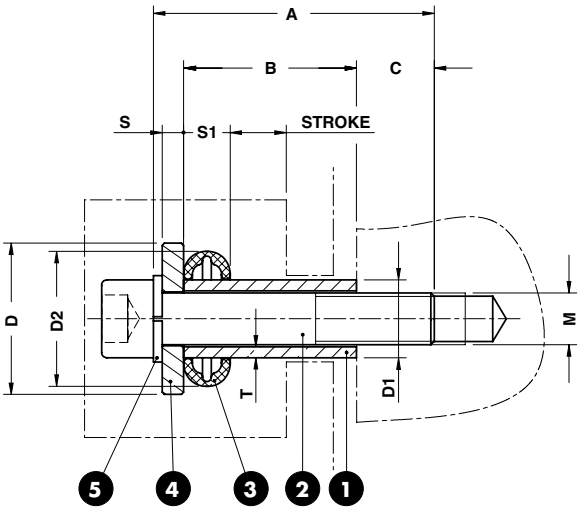
Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** St37
2. DIN 912 cl. 8.8
3. **Material:** CK45
4. DIN 127

# ANTI-REBOUND PAD RETAINER
# HALTEELEMENT MIT DÄMPFUNG
# GRUPPO TIRANTE ANTIRIMBALZO








STOCK ... 3D WEB

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**For dimensioning see pages 86-87**
**Dimensionierung s. Seiten 86-87**
**Per il dimensionamento vedi pagine 86-87**

## Notes

1. **Material:** St37
2. DIN 912 cl. 8.8
3. C17.27
4. **Material:** CK45
5. DIN 127

| ORDER EXAMPLE | Art. | M=M10 | A=75 | B=50 |
|---|---|---|---|---|
| | C13.27. | M10 | 075 | 050 |

| OMCR CODE | A | B | C | D | D1 | D2 | M | S | S1 | T |
|---|---|---|---|---|---|---|---|---|---|---|
| C13.27.M10065040 | 65 | 40 | 18 | 30 | 16 | 26,4 | M10 | 5 | 7,8 | 2,5 |
| C13.27.M10075050 | 75 | 50 | 18 | 30 | 16 | 26,4 | M10 | 5 | 7,8 | 2,5 |
| C13.27.M10090063 | 90 | 63 | 20 | 30 | 16 | 26,4 | M10 | 5 | 7,8 | 2,5 |
| C13.27.M10130100 | 130 | 100 | 18 | 30 | 16 | 26,4 | M10 | 5 | 7,8 | 2,5 |
| C13.27.M12080050 | 80 | 50 | 23 | 35 | 20 | 32,1 | M12 | 5 | 10,8 | 3,5 |
| C13.27.M12090063 | 90 | 63 | 20 | 35 | 20 | 32,1 | M12 | 5 | 10,8 | 3,5 |
| C13.27.M12110080 | 110 | 80 | 23 | 35 | 20 | 32,1 | M12 | 5 | 10,8 | 3,5 |
| C13.27.M12130100 | 130 | 100 | 23 | 35 | 20 | 32,1 | M12 | 5 | 10,8 | 3,5 |
| C13.27.M16100063 | 100 | 63 | 28 | 50 | 25 | 45,8 | M16 | 6 | 17,0 | 4 |
| C13.27.M16120080 | 120 | 80 | 31 | 50 | 25 | 45,8 | M16 | 6 | 17,0 | 4 |
| C13.27.M16140100 | 140 | 100 | 31 | 50 | 25 | 45,8 | M16 | 6 | 17,0 | 4 |
| C13.27.M16160125 | 160 | 125 | 26 | 50 | 25 | 45,8 | M16 | 6 | 17,0 | 4 |
| C13.27.M20130080 | 130 | 80 | 38 | 65 | 30 | 54,6 | M20 | 8 | 21,3 | 4 |
| C13.27.M20170125 | 170 | 125 | 33 | 65 | 30 | 54,6 | M20 | 8 | 21,3 | 4 |
| C13.27.M24140080 | 140 | 80 | 45 | 70 | 36 | 61,8 | M24 | 10 | 21,5 | 5 |
| C13.27.M24160100 | 160 | 100 | 45 | 70 | 36 | 61,8 | M24 | 10 | 21,5 | 5 |
| C13.27.M24180125 | 180 | 125 | 40 | 70 | 36 | 61,8 | M24 | 10 | 21,5 | 5 |
| C13.27.M30160080 | 160 | 80 | 59 | 90 | 42 | 78,5 | M30 | 15 | 29,4 | 5 |
| C13.27.M30180100 | 180 | 100 | 59 | 90 | 42 | 78,5 | M30 | 15 | 29,4 | 5 |
| C13.27.M30200125 | 200 | 125 | 54 | 90 | 42 | 78,5 | M30 | 15 | 29,4 | 5 |

# ANTI-REBOUND PAD RETAINER
# HALTEELEMENT MIT DÄMPFUNG
# GRUPPO TIRANTE ANTIRIMBALZO

## EXAMPLE:

Pressure pad weight - Niederhaltergewicht - Massa del premilamiera: **500 daN**
Pressure pad speed - Niederhaltergeschwindigkeit - Velocità del premilamiera: **0,4 m/s**
Strokes/minute - Hübe/min - Corse/min.: **20**

**Strokes/minute 18÷25**

| Pressure pad weight (daN) | Pressure pad speed (m/s) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 | 0,6 | 0,7 | 0,8 | 0,9 | 1 | 1,1 |
| 100 | 2x M10 | 2x M10 | 2x M10 | 2x M12 | 2x M12 | 3x M12 | 3x M12 | 2x M16 | 3x M16 | 3x M16 | 2x M20 |
| | | | | 4x M10 | 5x M10 | 7x M10 | 9x M10 | 4x M12 | 5x M12 | 6x M12 | 4x M16 |
| 250 | 2x M10 | 3x M10 | 2x M12 | 3x M12 | 3x M16 | 3x M16 | 2x M20 | 2x M20 | 3x M20 | 3x M20 | 3x M24 |
| | | | 5x M10 | 8x M10 | 4x M12 | 6x M12 | 4x M16 | 5x M16 | 6x M16 | 8x M16 | 4x M20 |
| 500 | 3x M10 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M30 | 3x M30 | 4x M30 |
| | | 6x M10 | 4x M12 | 6x M12 | 5x M16 | 6x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M24 | 5x M24 |
| 750 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M30 | 4x M30 | 4x M30 | 5x M30 |
| | 5x M10 | 4x M12 | 6x M12 | 5x M16 | 7x M16 | 4x M20 | 5x M20 | 4x M24 | 5x M24 | 6x M24 | 7x M24 |
| 1000 | 3x M12 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M30 | 3x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 |
| | 6x M10 | 5x M12 | 4x M16 | 6x M16 | 4x M20 | 4x M24 | 4x M24 | 5x M24 | 7x M24 | 8x M24 | 9x M24 |

- **Nr.3 C13.27.M16 or nr.6 C13.27.M12**
- **3 St. C13.27.M16 oder 6 St. C13.27.M12**
- **N.3 C13.27.M16 o n.6 C13.27.M12**

**Strokes/minute ≤17**

| Pressure pad weight (daN) | Pressure pad speed (m/s) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 | 0,6 | 0,7 | 0,8 | 0,9 | 1 | 1,1 | 1,2 | 1,3 |
| 100 | 2x M10 | 2x M10 | 2x M10 | 2x M12 | 2x M12 | 3x M12 | 3x M12 | 2x M16 | 3x M16 | 3x M16 | 2x M20 | 2x M20 | 2x M20 |
| | | | | 4x M10 | 5x M10 | 7x M10 | 9x M10 | 4x M12 | 5x M12 | 6x M12 | 4x M16 | 4x M16 | 5x M16 |
| 250 | 2x M10 | 3x M10 | 2x M12 | 3x M12 | 2x M16 | 3x M16 | 2x M20 | 2x M20 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M24 |
| | | | 5x M10 | 8x M10 | 4x M12 | 6x M12 | 4x M16 | 5x M16 | 6x M16 | 7x M16 | 4x M20 | 5x M20 | 5x M20 |
| 500 | 3x M10 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M30 | 3x M30 | 3x M30 | 3x M30 | 4x M30 |
| | | 6x M10 | 4x M12 | 6x M12 | 4x M16 | 6x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M24 | 5x M24 | 6x M24 | 6x M24 |
| 750 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M30 | 3x M30 | 3x M30 | 4x M30 | 5x M30 | 5x M30 |
| | 5x M10 | 4x M12 | 6x M12 | 5x M16 | 6x M16 | 4x M20 | 5x M20 | 4x M24 | 5x M24 | 6x M24 | 7x M24 | 8x M24 | 9x M24 |
| 1000 | 3x M12 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M30 | 3x M30 | 3x M30 | 4x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 |
| | 6x M10 | 5x M12 | 4x M16 | 6x M16 | 4x M20 | 4x M24 | 4x M24 | 5x M24 | 7x M24 | 8x M24 | 9x M24 | 11x M24 | 12x M24 |
| 1250 | 4x M12 | 4x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M24 | 4x M30 | 4x M30 | 5x M30 | 5x M30 | 6x M30 | 7x M30 | 9x M30 |
| | 7x M10 | 6x M12 | 5x M16 | 7x M16 | 5x M20 | 7x M20 | 5x M24 | 7x M24 | 8x M24 | 10x M24 | 11x M24 | | |
| 1500 | 4x M12 | 4x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M30 | 4x M30 | 5x M30 | 5x M30 | 6x M30 | 8x M30 | 9x M30 | 10x M30 |
| | 9x M10 | 7x M12 | 6x M16 | 9x M16 | 6x M20 | 5x M24 | 6x M24 | 8x M24 | 10x M24 | 11x M24 | | | |
| 1750 | 4x M16 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 4x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 9x M30 | 10x M30 | 12x M30 |
| | 5x M12 | 8x M12 | 7x M16 | 5x M20 | 5x M24 | 6x M24 | 7x M24 | 9x M24 | 11x M24 | | | | |
| 2000 | 4x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 8x M30 | 10x M30 | 12x M30 | |
| | 6x M12 | 5x M16 | 8x M16 | 6x M20 | 5x M24 | 7x M24 | 8x M24 | 10x M24 | | | | | |
| 2500 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 9x M30 | 10x M30 | 12x M30 | | |
| | 7x M12 | 6x M16 | 5x M20 | 5x M24 | 6x M24 | 8x M24 | 10x M24 | | | | | | |
| 3000 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 9x M30 | 10x M30 | 12x M30 | | | |
| | 8x M12 | 7x M16 | 6x M20 | 6x M24 | 7x M24 | 10x M24 | 12x M24 | | | | | | |
| 3500 | 4x M20 | 4x M24 | 4x M30 | 4x M30 | 5x M30 | 7x M30 | 8x M30 | 10x M30 | 12x M30 | | | | |
| | 5x M16 | 5x M20 | 5x M24 | 6x M24 | 9x M24 | 11x M24 | | | | | | | |
| 4000 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 9x M30 | 11x M30 | | | | | |
| | 6x M16 | 6x M20 | 5x M24 | 7x M24 | 10x M24 | | | | | | | | |
| 4500 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 7x M30 | 8x M30 | 10x M30 | | | | | | |
| | 6x M16 | 6x M20 | 6x M24 | 8x M24 | 11x M24 | | | | | | | | |
| 5000 | 4x M24 | 4x M30 | 4x M30 | 6x M30 | 7x M30 | 9x M30 | 12x M30 | | | | | | |
| | 5x M20 | 5x M24 | 6x M24 | 9x M24 | 12x M24 | | | | | | | | |
| 5500 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 8x M30 | 10x M30 | | | | | | | |
| | 5x M20 | 5x M24 | 7x M24 | 10x M24 | | | | | | | | | |
| 6000 | 4x M24 | 4x M30 | 5x M30 | 7x M30 | 9x M30 | 11x M30 | | | | | | | |
| | 5x M20 | 5x M24 | 8x M24 | 11x M24 | | | | | | | | | |

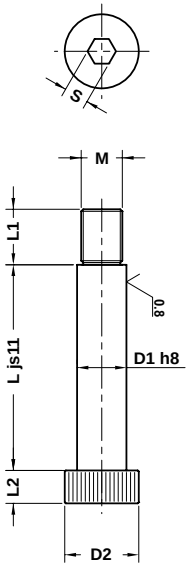
### Strokes/minute 18÷25

| Pressure pad weight (daN) | Pressure pad speed (m/s) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 | 0,6 | 0,7 | 0,8 | 0,9 | 1 | 1,1 | 1,2 | 1,3 |
| 100 | 2x M10 | 2x M10 | 2x M10 | 2x M12 | 2x M12 | 3x M12 | 3x M12 | 2x M16 | 3x M16 | 3x M16 | 2x M20 | 2x M20 | 2x M20 |
| | | | | 4x M10 | 5x M10 | 7x M10 | 9x M10 | 4x M12 | 5x M12 | 6x M12 | 4x M16 | 5x M16 | 5x M16 |
| 250 | 2x M10 | 3x M10 | 2x M12 | 3x M12 | 3x M16 | 3x M16 | 2x M20 | 2x M20 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M24 |
| | | | 5x M10 | 8x M10 | 4x M12 | 6x M12 | 4x M16 | 5x M16 | 6x M16 | 8x M16 | 4x M20 | 5x M20 | 5x M20 |
| 500 | 3x M10 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M30 | 3x M30 | 4x M30 | 4x M30 | 5x M30 |
| | | 6x M10 | 4x M12 | 6x M12 | 5x M16 | 6x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M24 | 5x M24 | 6x M24 | 6x M24 |
| 750 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M24 | 3x M30 | 4x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 |
| | 5x M10 | 4x M12 | 6x M12 | 5x M16 | 7x M16 | 4x M20 | 5x M20 | 4x M24 | 5x M24 | 6x M24 | 7x M24 | 8x M24 | 9x M24 |
| 1000 | 3x M12 | 3x M16 | 3x M20 | 3x M20 | 3x M24 | 3x M30 | 3x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 8x M30 | 9x M30 |
| | 6x M10 | 5x M12 | 4x M16 | 6x M16 | 4x M20 | 4x M24 | 4x M24 | 5x M24 | 7x M24 | 8x M24 | 9x M24 | 11x M24 | 12x M24 |
| 1250 | 4x M12 | 4x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 8x M30 | 10x M30 | 11x M30 |
| | 7x M10 | 6x M12 | 5x M16 | 8x M16 | 5x M20 | 7x M20 | 5x M24 | 7x M24 | 8x M24 | 10x M24 | 11x M24 | | |
| 1500 | 4x M12 | 4x M16 | 4x M20 | 4x M24 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 8x M30 | 10x M30 | 12x M30 | |
| | 9x M10 | 7x M12 | 6x M16 | 5x M20 | 6x M20 | 5x M24 | 6x M24 | 8x M24 | 10x M24 | 11x M24 | | | |
| 1750 | 4x M16 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 4x M30 | 6x M30 | 7x M30 | 8x M30 | 10x M30 | 12x M30 | | |
| | 5x M12 | 8x M12 | 7x M16 | 5x M20 | 5x M24 | 6x M24 | 7x M24 | 9x M24 | 11x M24 | | | | |
| 2000 | 4x M16 | 4x M20 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 8x M30 | 9x M30 | 11x M30 | | | |
| | 6x M12 | 5x M16 | 8x M16 | 6x M20 | 5x M24 | 7x M24 | 8x M24 | 10x M24 | | | | | |
| 2500 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 8x M30 | 10x M30 | 12x M30 | | | | |
| | 7x M12 | 6x M16 | 5x M20 | 5x M24 | 6x M24 | 8x M24 | 10x M24 | | | | | | |
| 3000 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 6x M30 | 7x M30 | 9x M30 | 11x M30 | | | | | |
| | 8x M12 | 7x M16 | 6x M20 | 6x M24 | 7x M24 | 10x M24 | 12x M24 | | | | | | |
| 3500 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 7x M30 | 8x M30 | 11x M30 | | | | | | |
| | 5x M16 | 5x M20 | 5x M24 | 6x M24 | 9x M24 | 11x M24 | | | | | | | |
| 4000 | 4x M20 | 4x M24 | 4x M30 | 6x M30 | 7x M30 | 10x M30 | 12x M30 | | | | | | |
| | 6x M16 | 6x M20 | 5x M24 | 7x M24 | 10x M24 | | | | | | | | |
| 4500 | 4x M20 | 4x M24 | 5x M30 | 6x M30 | 8x M30 | 11x M30 | | | | | | | |
| | 6x M16 | 6x M20 | 6x M24 | 8x M24 | 11x M24 | | | | | | | | |
| 5000 | 4x M24 | 4x M30 | 5x M30 | 7x M30 | 9x M30 | 12x M30 | | | | | | | |
| | 5x M20 | 5x M24 | 6x M24 | 9x M24 | 12x M24 | | | | | | | | |
| 5500 | 4x M24 | 4x M30 | 6x M30 | 8x M30 | 10x M30 | | | | | | | | |
| | 5x M20 | 5x M24 | 7x M24 | 10x M24 | | | | | | | | | |
| 6000 | 4x M24 | 4x M30 | 6x M30 | 8x M30 | 11x M30 | | | | | | | | |
| | 6x M20 | 5x M24 | 8x M24 | 11x M24 | | | | | | | | | |

### Strokes/minute 26÷40

| Pressure pad weight (daN) | Pressure pad speed (m/s) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 | 0,6 | 0,7 | 0,8 | 0,9 | 1 | 1,1 | 1,2 | 1,3 |
| 100 | 2x M10 | 2x M10 | 2x M10 | 2x M12 | 2x M12 | 3x M12 | 3x M12 | 2x M16 | 3x M16 | 3x M16 | 3x M20 | 3x M20 | 2x M24 |
| | | | | 4x M10 | 5x M10 | 7x M10 | 9x M10 | 4x M12 | 5x M12 | 6x M12 | 4x M16 | 5x M16 | 4x M20 |
| 250 | 2x M10 | 3x M10 | 2x M12 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 2x M24 | 3x M24 | 3x M24 | 3x M30 | 4x M30 | 4x M30 |
| | | | 5x M10 | 8x M10 | 4x M12 | 6x M12 | 4x M16 | 4x M20 | 4x M20 | 5x M20 | 4x M24 | 5x M24 | 5x M24 |
| 400 | 3x M10 | 2x M12 | 3x M12 | 3x M16 | 3x M20 | 2x M24 | 3x M24 | 3x M30 | 3x M30 | 4x M30 | 5x M30 | 5x M30 | 6x M30 |
| | | 5x M10 | 8x M10 | 5x M12 | 4x M16 | 4x M20 | 5x M20 | 4x M24 | 4x M24 | 5x M24 | 6x M24 | 7x M24 | 8x M24 |
| 550 | 3x M10 | 3x M12 | 3x M16 | 3x M20 | 3x M24 | 3x M324 | 3x M30 | 4x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 8x M30 |
| | | 6x M10 | 4x M12 | 4x M16 | 4x M20 | 5x M20 | 4x M24 | 5x M24 | 6x M24 | 7x M24 | 8x M24 | 9x M24 | 11x M24 |
| 700 | 3x M12 | 3x M16 | 3x M16 | 3x M20 | 3x M24 | 3x M30 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 8x M30 | 9x M30 | 10x M30 |
| | 4x M10 | 4x M12 | 5x M12 | 4x M16 | 5x M20 | 4x M24 | 5x M24 | 6x M24 | 7x M24 | 8x M24 | 10x M24 | 12x M24 | |
| 850 | 3x M12 | 3x M16 | 3x M20 | 3x M24 | 3x M24 | 4x M30 | 4x M30 | 5x M30 | 7x M30 | 8x M30 | 9x M30 | 11x M30 | 12x M30 |
| | 5x M10 | 4x M12 | 4x M16 | 4x M20 | 5x M20 | 4x M24 | 6x M24 | 7x M24 | 8x M24 | 10x M24 | 12x M24 | | |
| 1000 | 3x M12 | 3x M16 | 3x M20 | 3x M24 | 3x M30 | 4x M30 | 5x M30 | 6x M30 | 8x M30 | 9x M30 | 11x M30 | | |
| | 6x M10 | 5x M12 | 4x M16 | 5x M20 | 4x M24 | 5x M24 | 7x M24 | 8x M24 | 10x M24 | 12x M24 | | | |
| 1150 | 3x M16 | 3x M16 | 3x M24 | 3x M24 | 4x M30 | 5x M30 | 6x M30 | 7x M30 | 9x M30 | 10x M30 | 12x M30 | | |
| | 4x M12 | 6x M12 | 4x M20 | 5x M20 | 4x M24 | 6x M24 | 7x M24 | 9x M24 | 11x M24 | | | | |
| 1300 | 4x M12 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 6x M30 | 8x M30 | 10x M30 | 12x M30 | | | |
| | 7x M10 | 6x M12 | 5x M16 | 6xM20 | 5x M24 | 7x M24 | 8x M24 | 10x M24 | | | | | |
| 1450 | 4x M12 | 4x M16 | 4x M24 | 4x M24 | 4x M30 | 6x M30 | 7x M30 | 9x M30 | 11x M30 | | | | |
| | 8x M10 | 7x M12 | 5x M20 | 7x M20 | 6x M24 | 7x M24 | 9x M24 | 12x M24 | | | | | |
| 1600 | 4x M16 | 4x M16 | 4x M24 | 4x M24 | 5x M30 | 6x M30 | 8x M30 | 10x M30 | 12x M30 | | | | |
| | 5x M12 | 8x M12 | 5x M20 | 7x M20 | 6x M24 | 8x M24 | 10x M24 | | | | | | |
| 1850 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 5x M30 | 7x M30 | 9x M30 | 11x M30 | | | | | |
| | 5x M12 | 5x M16 | 6x M20 | 5x M24 | 7x M24 | 9x M24 | 12x M24 | | | | | | |
| 2000 | 4x M16 | 4x M20 | 4x M24 | 4x M30 | 6x M30 | 8x M30 | 10x M30 | 12x M30 | | | | | |
| | 6x M12 | 5x M16 | 6x M20 | 5x M24 | 7x M24 | 10x M24 | | | | | | | |
| 2150 | 4x M16 | 4x M20 | 4x M24 | 5x M30 | 6x M30 | 8x M30 | 10x M30 | | | | | | |
| | 6x M12 | 5x M16 | 7x M20 | 6x M24 | 8x M24 | 10x M24 | | | | | | | |
| 2300 | 4x M16 | 4x M24 | 4x M24 | 5x M30 | 7x M30 | 9x M30 | 11x M30 | | | | | | |
| | 7x M12 | 5x M20 | 7x M20 | 6x M24 | 8x M24 | 11x M24 | | | | | | | |
| 2450 | 4x M16 | 4x M24 | 4x M30 | 5x M30 | 7x M30 | 9x M30 | 12x M30 | | | | | | |
| | 7x M12 | 5x M20 | 5x M24 | 7x M24 | 9x M24 | 12x M24 | | | | | | | |
| 2600 | 4x M16 | 4x M24 | 4x M30 | 6x M30 | 8x M30 | 10x M30 | 12x M30 | | | | | | |
| | 7x M12 | 5x M20 | 5x M24 | 7x M24 | 9x M24 | | | | | | | | |

## COLLAR SCREW - SCHULTER-PASSCHRAUBE - VITE CON COLLETTO






STOCK

3D WEB

**Notes**

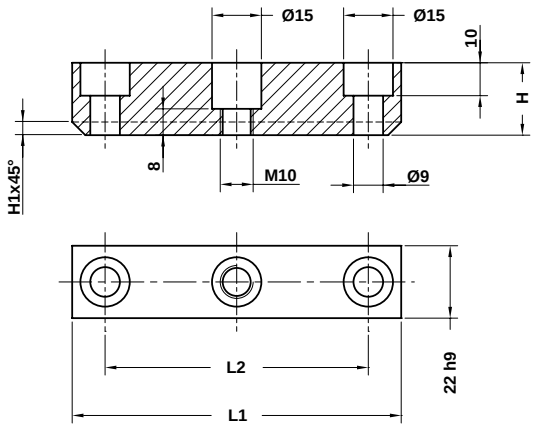
**Material:** Steel cl. 12.9

| ORDER EXAMPLE | Art. | D1=6 | L=10 |
|---|---|---|---|
| | C13.30. | 06 | 010 |

| M | M5 | M6 | M8 | M10 | M12 | M16 | M20 |
|---|---|---|---|---|---|---|---|
| D1 | 6 | 8 | 10 | 12 | 16 | 20 | 24 |
| D2 | 10 | 13 | 16 | 18 | 24 | 30 | 36 |
| L1 | 9,5 | 11 | 13 | 16 | 18 | 22 | 27 |
| L2 | 4,5 | 5,5 | 7 | 9 | 11 | 14 | 16 |
| S | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| **L** | | | | | | | |
| 10 | • | • | | | | | |
| 12 | • | • | | | | | |
| 15 | • | • | • | • | | | |
| 16 | • | • | • | • | | | |
| 20 | • | • | • | • | | | |
| 25 | • | • | • | • | | | |
| 30 | • | • | • | • | • | | |
| 35 | • | • | • | • | • | | |
| 40 | • | • | • | • | • | • | |
| 45 | • | • | • | • | • | • | |
| 50 | • | • | • | • | • | • | • |
| 55 | • | • | • | • | • | • | • |
| 60 | • | • | • | • | • | • | • |
| 65 | | • | • | • | • | • | • |
| 70 | | • | • | • | • | • | • |
| 80 | | • | • | • | • | • | • |
| 90 | | • | • | • | • | • | • |
| 100 | | • | • | • | • | • | • |
| 120 | | | | • | • | • | • |

## KEY - PASSFEDER - CHIAVETTA DI REAZIONE








STOCK 3D WEB

**Notes**

**Material:** CK45

ORDER EXAMPLE

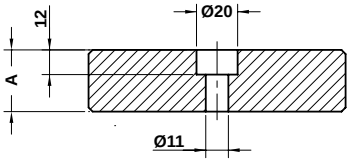
| Art. | H=14 | L1=50 |
|---|---|---|
| C14.09. | 14 | 050 |

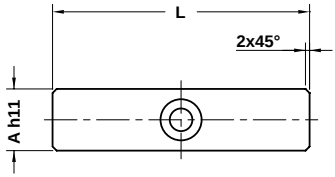
| OMCR CODE | H | H1 | L1 | L2 |
|---|---|---|---|---|
| C14.09.14050 | 14 | - | 50 | 32 |
| C14.09.14080 | 14 | - | 80 | 50 |
| C14.09.14100 | 14 | - | 100 | 80 |
| C14.09.14125 | 14 | - | 125 | 100 |
| C14.09.22050 | 22 | 4 | 50 | 32 |
| C14.09.22080 | 22 | 4 | 80 | 50 |
| C14.09.22100 | 22 | 4 | 100 | 80 |
| C14.09.22125 | 22 | 4 | 125 | 100 |
| C14.09.40050 | 40 | 4 | 50 | 32 |
| C14.09.40080 | 40 | 4 | 80 | 50 |
| C14.09.40100 | 40 | 4 | 100 | 80 |
| C14.09.40125 | 40 | 4 | 125 | 100 |

# C14.10

OMCR

## KEY - PASSFEDER - CHIAVETTA DI REAZIONE




STOCK

3D WEB



**Notes**

**Material:** CK45

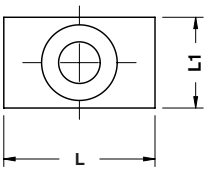
| ORDER EXAMPLE | Art. | A=25 | L=80 |
|---|---|---|---|
| | C14.10. | 25 | 080 |

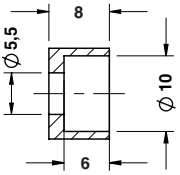
| OMCR CODE | A | L |
|---|---|---|
| C14.10.25080 | 25 | 80 |
| C14.10.25125 | 25 | 125 |
| C14.10.30080 | 30 | 80 |
| C14.10.30125 | 30 | 125 |

# C14.11

OMCR

## RETAINER - HALTESTÜCK - RITEGNO PER MATRICE




STOCK

3D WEB



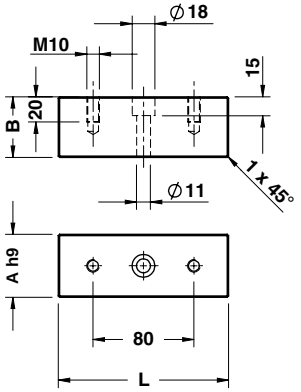
**Notes**

**Material:** CK45

| ORDER EXAMPLE | Art. | L1=12 | L=20 |
|---|---|---|---|
| | C14.11. | 12 | 20 |

| OMCR CODE | L1 | L |
|---|---|---|
| C14.11.1220 | 12 | 20 |
| C14.11.1620 | 16 | 20 |

## KEY - PASSFEDER - CHIAVETTA DI REAZIONE






STOCK

3D WEB

**Notes**

**Material:** CK45

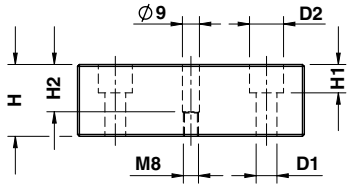


ORDER EXAMPLE

| Art. | A=50 | L=135 |
|---|---|---|
| C14.20. | 50 | 135 |

| OMCR CODE | A | B | L |
|---|---|---|---|
| C14.20.42125 | 42 | 40 | 125 |
| C14.20.50135 | 50 | 48 | 135 |
| C14.20.50220 | 50 | 48 | 220 |

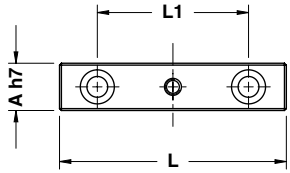
## KEY - PASSFEDER - CHIAVETTA DI REAZIONE



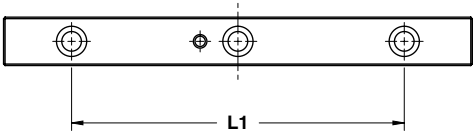



STOCK 3D WEB

### TYPE 01




### TYPE 02



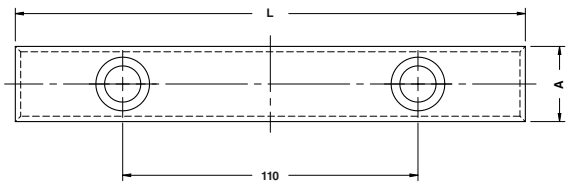

**Notes**

**Material:** CK45

| ORDER EXAMPLE | Art. | A=25 | H=38 | L=120 |
|---|---|---|---|---|
| | C14.25. | 25 | 38 | 120 |

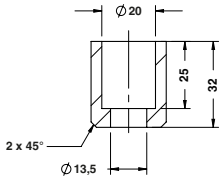
| OMCR CODE | A | D1 | D2 | H | H1 | H2 | L | L1 | TYPE |
|---|---|---|---|---|---|---|---|---|---|
| C14.25.2538090 | 25 | 11 | 18 | 38 | 15 | 25 | 90 | 50 | 01 |
| C14.25.2538120 | 25 | 11 | 18 | 38 | 15 | 25 | 120 | 80 | 01 |
| C14.25.3248150 | 32 | 13 | 20 | 48 | 25 | 35 | 150 | 90 | 01 |
| C14.25.3248210 | 32 | 13 | 20 | 48 | 25 | 35 | 210 | 130 | 01 |
| C14.25.3258260 | 32 | 13 | 20 | 58 | 25 | 42 | 260 | 150 | 01 |
| C14.25.3258310 | 32 | 13 | 20 | 58 | 25 | 42 | 310 | 220 | 02 |
| C14.25.3258350 | 32 | 13 | 20 | 58 | 25 | 42 | 350 | 250 | 02 |

## TYPE 01





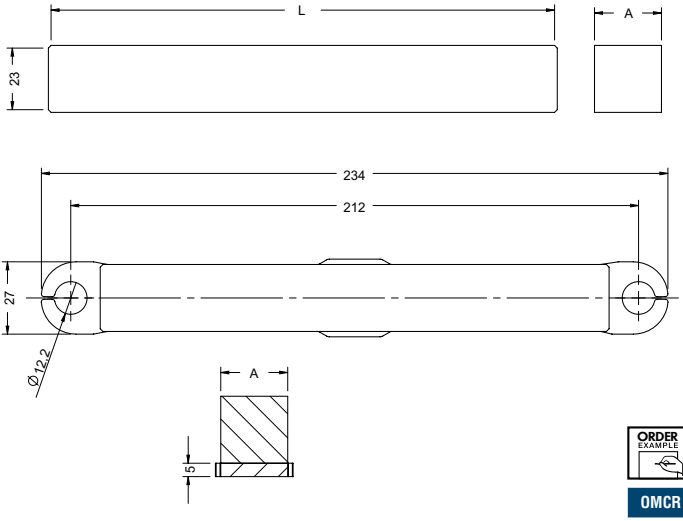

STOCK 3D WEB




**Notes**

**Material:** CK45

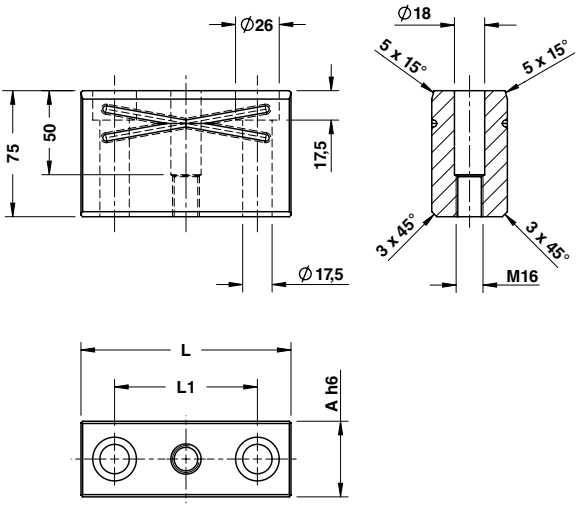
## TYPE 10




| ORDER EXAMPLE | Art. | TYPE |
|---|---|---|
| | C14.28. | 10 |

| OMCR CODE | L | A | TYPE |
|---|---|---|---|
| C14.28.01 | 190 | 28 | 01 |
| C14.28.10 | 188 | 25 | 10 |

## LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO






STOCK

3D WEB

### Notes

**Material:** 16MnCr5 - **HRC:** 60÷62

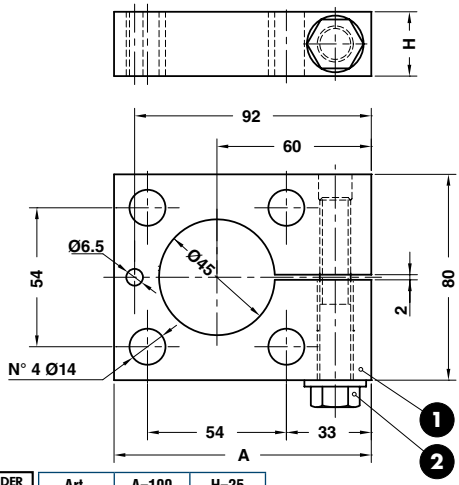
| ORDER EXAMPLE | Art. | A=45 | L=125 |
|---|---|---|---|
| | C14.30. | 45 | 125 |

| OMCR CODE | A | L | L1 |
|---|---|---|---|
| C14.30.45100 | 45 | 100 | 60 |
| C14.30.45125 | 45 | 125 | 85 |
| C14.30.45160 | 45 | 160 | 120 |
| C14.30.45200 | 45 | 200 | 160 |

# C15.10

OMCR

## CLAMP - BEFESTIGUNGSELEMENT - MORSETTO




STOCK

...

3D

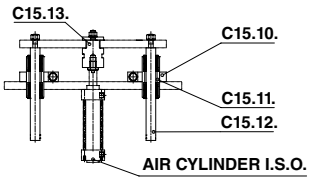
WEB



### Notes

1. **Material:** CK45
2. M12 x 70 DIN 931

### Application example




ORDER EXAMPLE

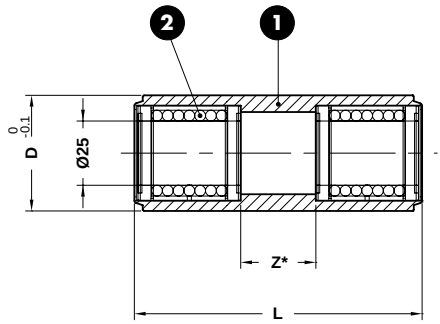
| Art. | A=100 | H=25 |
|---|---|---|
| C15.10. | 100 | 25 |

| OMCR CODE | A | H |
|---|---|---|
| C15.10.10025 | 100 | 25 |

# C15.11

OMCR

## SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA




STOCK

...

3D

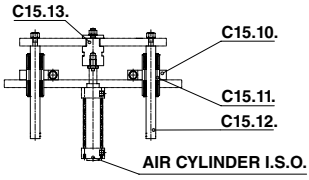
WEB



### Notes

1. **Material:** CK45
2. **Material:** STAR 0658-225-40

### Application example



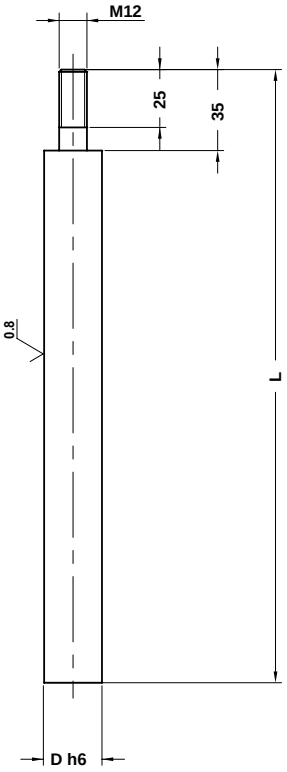

ORDER EXAMPLE

| Art. | D=45 | L=112 |
|---|---|---|
| C15.11. | 45 | 112 |

* Fixing zone
Befestigungsbereich Klammer
Zona di fissaggio

| OMCR CODE | D | L | Z |
|---|---|---|---|
| C15.11.45112 | 45 | 112 | 40 |
| C15.11.45200 | 45 | 200 | 120 |

## GUIDE POST - FÜHRUNGSSAULE - COLONNA





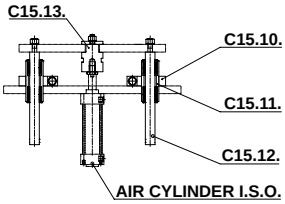

STOCK

3D WEB

### Notes

**Material:** CK45
**HRC:** 60÷62

### Application example



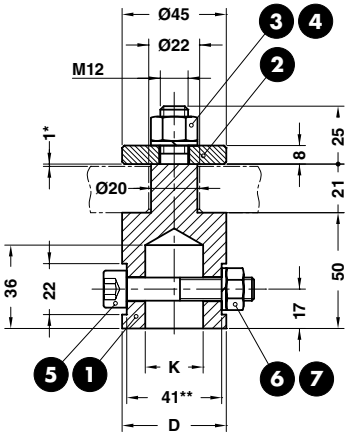

ORDER EXAMPLE

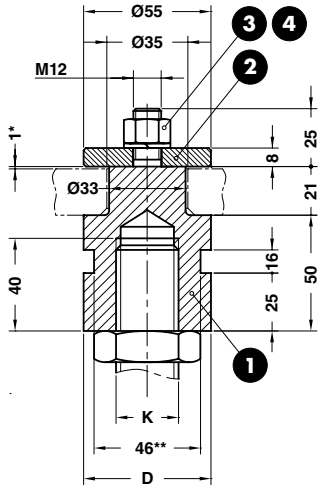
| Art. | D=25 | L=265 |
|---|---|---|
| C15.12. | 25 | 265 |

| OMCR CODE | D | L |
|---|---|---|
| C15.12.25265 | 25 | 265 |
| C15.12.25350 | 25 | 350 |
| C15.12.25400 | 25 | 400 |
| C15.12.25450 | 25 | 450 |
| C15.12.25500 | 25 | 500 |

## UNION NUT - BEFESTIGUNGSELEMENT - DADO DI UNIONE






* Backlash
Spiel
Gioco

** Spanner
Schlussel
Chiave

*** Rackwork
Zahnstange-antireb
Sollevatore a cremagliera

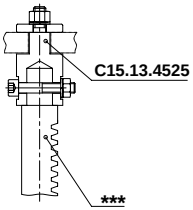


STOCK | ... | 3D WEB

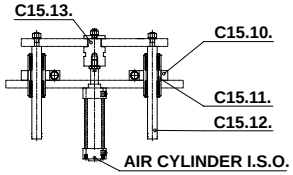
### Notes

1 2 **Material:** CK45
3 M12 DIN 934
4 Ø12 DIN 127B
5 M10X55 DIN 912
6 M10 DIN 934
7 Ø10 DIN 127B

### Application example FORM A




### Application example FORM B




ORDER EXAMPLE

| Art. | D=45 | K=25 |
|---|---|---|
| C15.13. | 45 | 25 |

| OMCR CODE | D | K | FORM |
|---|---|---|---|
| C15.13.4525 | 45 | 25 | A |
| C15.13.5516 | 55 | M16x1,5 | B |
| C15.13.5520 | 55 | M20x1,5 | B |
| C15.13.5527 | 55 | M27x2 | B |

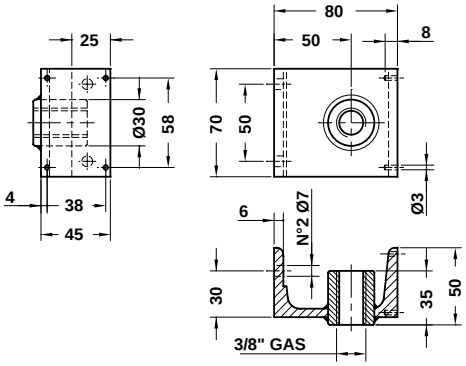
# AIR COUPLING BRACKET - LUFTANSCHLUSSBLOCK - SUPPORTO INNESTI RAPIDI



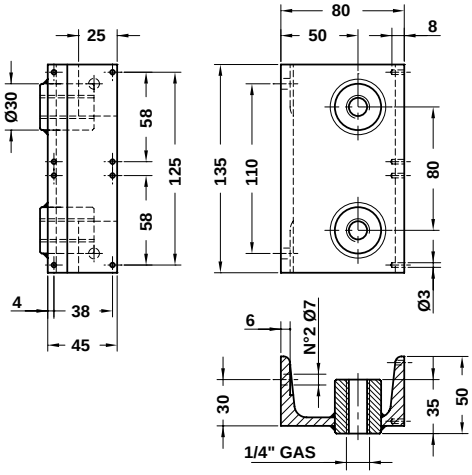
STOCK

3D WEB

## "FORM A"




## "FORM B"




## Notes

**Material:** St37

ORDER EXAMPLE

| Art. | FORM |
|---|---|
| C15.14. | A |

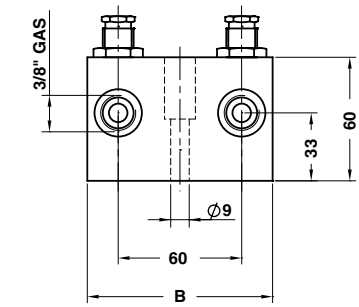
| OMCR CODE | FORM |
|---|---|
| C15.14. | A |
| C15.14. | B |

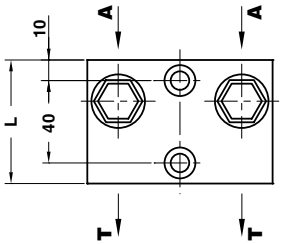
## FLUX CONTROL - VERTEILERBLOCK - REGOLATORE DI FLUSSO

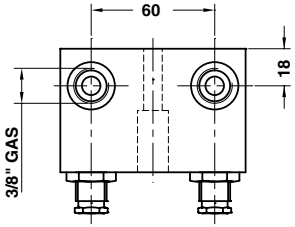


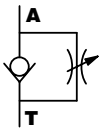


STOCK 3D WEB




**Notes**

**Material:** CK45

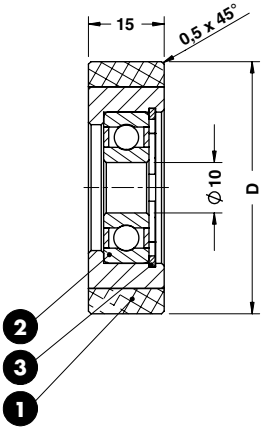
| ORDER EXAMPLE | Art. | A=60 | B=90 |
|---|---|---|---|
| | C15.15. | 60 | 90 |

| OMCR CODE | A | B |
|---|---|---|
| C15.15.6090 | 60 | 90 |

# C16.18

OMCR

## ROLLER - ROLLE - ROTELLA




STOCK

3D

WEB



### Notes

1. **Material:** Steel+Vulkolan
2. Roller Bearing 6200 2RS
3. I30 DIN472

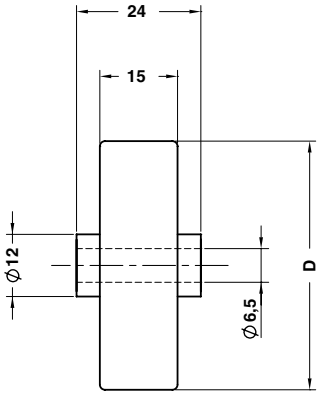
| ORDER EXAMPLE | Art. | D=50 |
|---|---|---|
| | C16.18. | 50 |

| OMCR CODE | D | Max Load (daN) |
|---|---|---|
| C16.18. | 50 | 70 |

# C16.19

OMCR

## ROLLER - ROLLE - ROTELLA






STOCK

3D

WEB

### Notes

**Material:** Steel

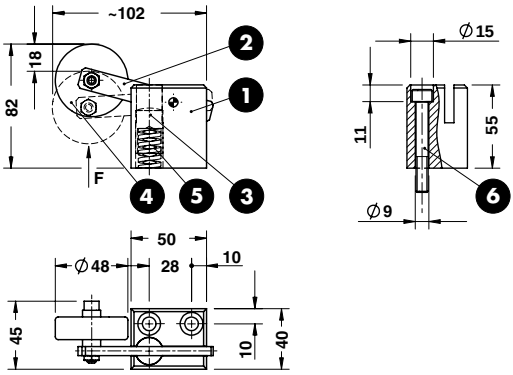
| ORDER EXAMPLE | Art. | D=48 |
|---|---|---|
| | C16.19. | 48 |

| OMCR CODE | D | Max Load (daN) |
|---|---|---|
| C16.19. | 48 | 25 |

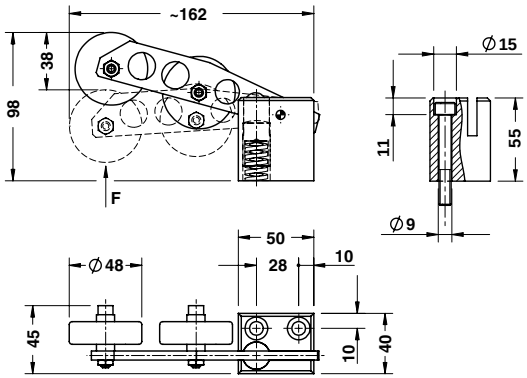
## ROLLER STOCK LIFTER - FEDERNDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



### TYPE 01




### TYPE 02






STOCK ... 3D WEB

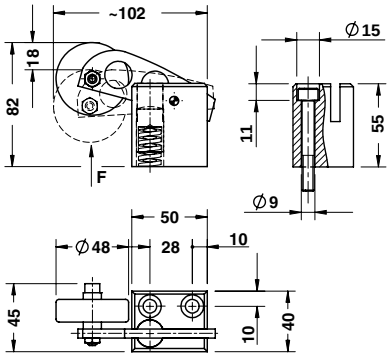
### Notes

1. **Material:** C15
2. **Material:** S235JRG2K
3. **Material:** 42CrMo4
4. C16.19.48
5. Spring
6. Screws M8x60 DIN 912

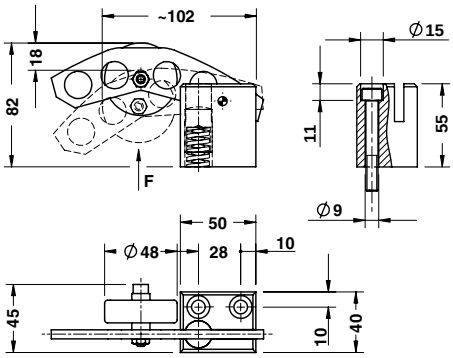
| ORDER EXAMPLE | Art. | TYPE |
|---|---|---|
| | C16.20. | 01 |

| OMCR CODE | F (N) | TYPE |
|---|---|---|
| C16.20.01 | 66 | 01 |
| C16.20.02 | 32 | 02 |
| C16.20.03 | 66 | 03 |
| C16.20.04 | 66 | 04 |

### TYPE 03

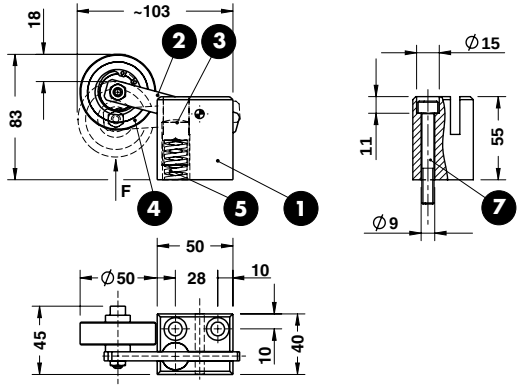



### TYPE 04

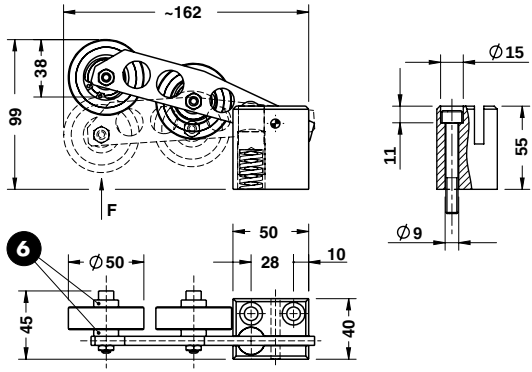


## ROLLER STOCK LIFTER - FEDERNDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO

### TYPE 20




### TYPE 21






STOCK ... 3D WEB

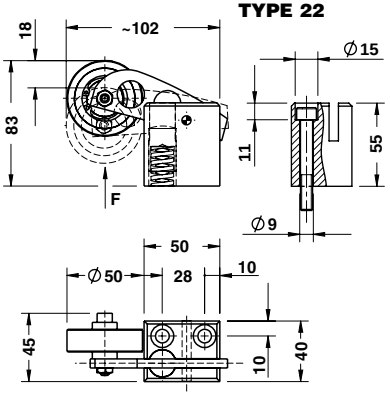
### Notes

1. **Material:** C15
2. **Material:** S235JRG2K
3. **Material:** 42CrMo4
4. C16.18.50
5. Spring
6. **Material:** steel
7. Screws M8x60 DIN 912

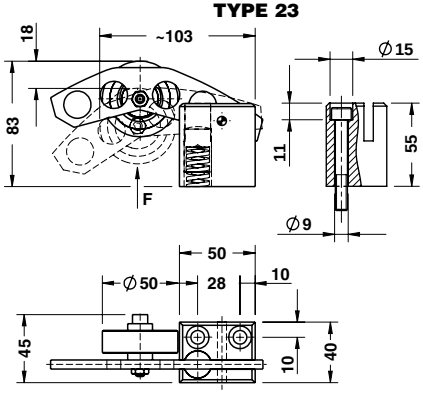
| ORDER EXAMPLE | Art. | TYPE |
|---|---|---|
| | C16.20. | 20 |

| OMCR CODE | F (N) | TYPE |
|---|---|---|
| C16.20.20 | 66 | 20 |
| C16.20.21 | 32 | 21 |
| C16.20.22 | 66 | 22 |
| C16.20.23 | 66 | 23 |

### TYPE 22

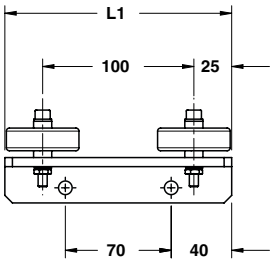


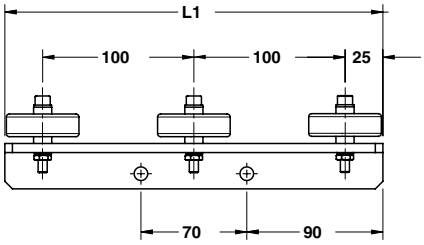

### TYPE 23

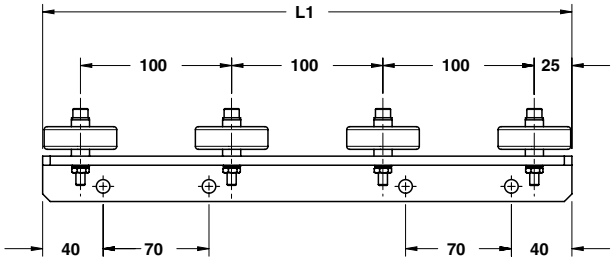


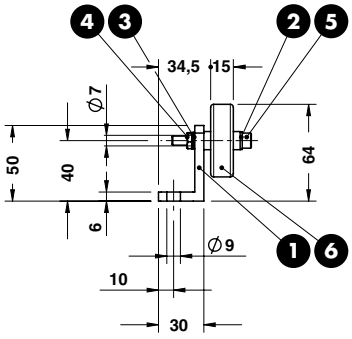
## ROLLER GROUP - FÖRDERROLLE - GRUPPO RULLINI








STOCK ... 3D WEB

### Notes

1. **Material:** St37
2. 3 Washers for M6
4. Nut for M6
5. Screw M6x40 DIN 912
6. **Material:** Steel - C16.19.48

| ORDER EXAMPLE | Art. | L1 |
|---|---|---|
| | C16.21. | 150 |

| OMCR CODE | L1 | Max Load (daN) |
|---|---|---|
| C16.21.150 | 150 | 50 |
| C16.21.250 | 250 | 75 |
| C16.21.350 | 350 | 100 |

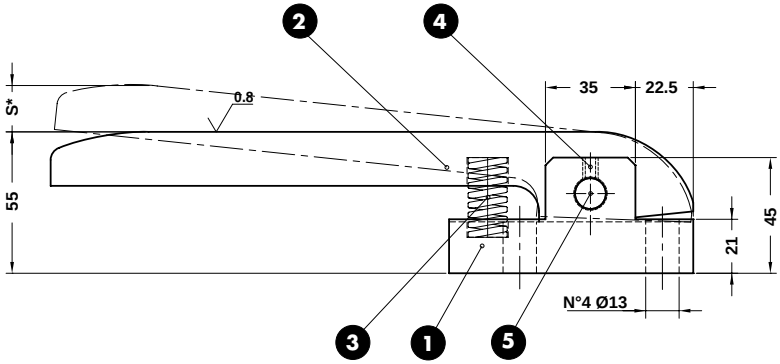
## COIL SUPPORT - ABSTREIFER - SOLLEVATORE NASTRO

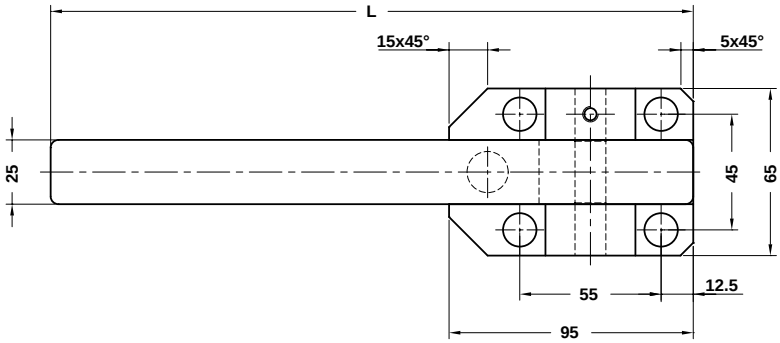
**Notes**

1. **Material:** CK45
2. **Material:** Bronze - **HB**>190
3. SPRING
4. M6x8 DIN 913
5. Ø12x60 DIN 6325



STOCK | ... | 3D WEB



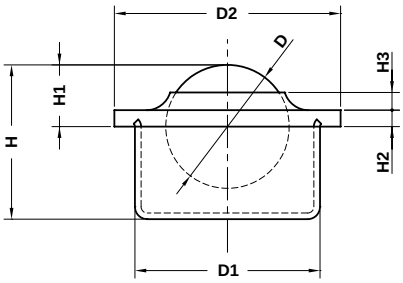

ORDER EXAMPLE

| Art. | TYPE |
|---|---|
| C16.25. | 01 |

| OMCR CODE | L | S | Spring | Spring initial force (daN) | Spring final force (daN) | TYPE |
|---|---|---|---|---|---|---|
| **C16.25.01** | 250 | 18 | TV016044 | 7,9 N | 12,3 N | 01 |
| **C16.25.02** | 250 | 18 | B16044 | 27 N | 42 N | 02 |
| **C16.25.03** | 300 | 30 | B16044 | 24 N | 42 N | 03 |

## BALL CASTER - KUGELROLLENSYSTEM - SFERA PORTANTE








STOCK

3D WEB

### Notes

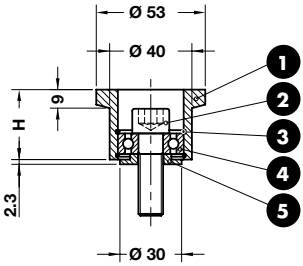
**Material:** Steel

ORDER EXAMPLE

| Art. | D=15 |
|---|---|
| C16.26. | 15 |

| OMCR CODE | D | D1 | D2 | Max load (daN) | H | H1 | H2 | H3 |
|---|---|---|---|---|---|---|---|---|
| **C16.26.15** | 15 | 24±0,065 | 31 | 50 | 21,5 | 9,5±0,2 | 2,8 | 3,5 |
| **C16.26.30** | 30 | 45±0,080 | 55 | 250 | 37,5 | 13,8±0,3 | 4 | 4,3 |

## COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO




**TYPE 01**

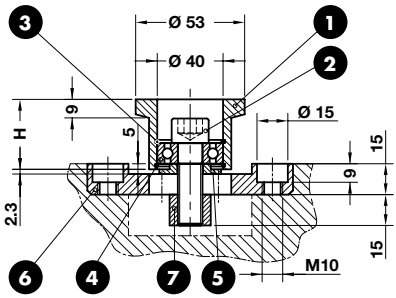
**TYPE 01**



STOCK ... 3D WEB

**Notes TYPE 01**

1. **Material:** 16MnCr5 - **HRC:** 55÷58
2. M12x40 DIN 472
3. I32 DIN 472
4. 6201 2Z VA DIN 625
5. **Material:** CK45




**TYPE 02**

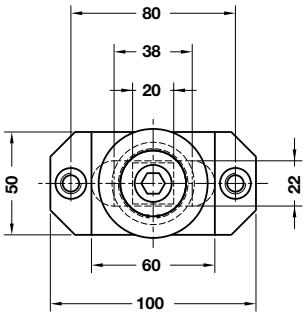
**TYPE 02**



STOCK ... 3D WEB

**Notes TYPE 02**

1. **Material:** 16MnCr5 - **HRC:** 55÷58
2. M12x40 DIN 472
3. I32 DIN 472
4. 6201 2Z VA DIN 625
5. **Material:** CK45
6. **Material:** St37
7. **Material:** CK45




ORDER EXAMPLE

| Art. | TYPE | H=34 |
|---|---|---|
| C16.27. | 01 | 34 |

| OMCR CODE | TYPE | H |
|---|---|---|
| C16.27.0117 | 01 | 17 |
| C16.27.0134 | 01 | 34 |
| C16.27.0154 | 01 | 54 |
| C16.27.0180 | 01 | 80 |
| C16.27.0217 | 02 | 17 |
| C16.27.0234 | 02 | 34 |
| C16.27.0254 | 02 | 54 |
| C16.27.0280 | 02 | 80 |

## FLANGE LIFTER - ABSTREIFER - SFLANGIATORE



⚠

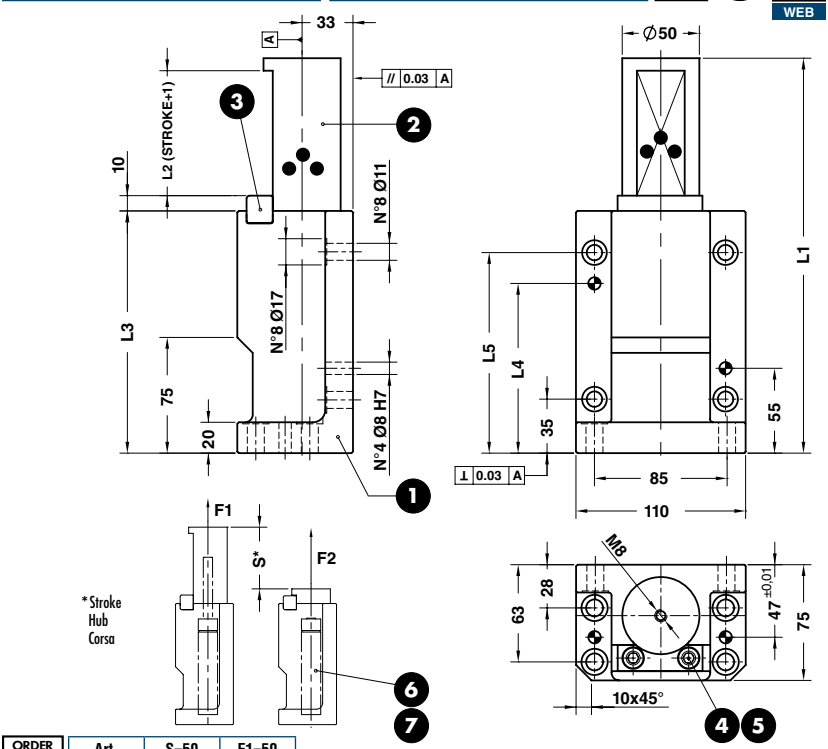
Do not exceed the stroke
Hub nicht überschreiten
Non superare la corsa

**Notes**

1. **Material:** EN-GJL300
2. **Material:** Bronze + Graphite - **HB**>190
3. **Material:** 36NiCrMo4
4. M8x25 DIN 912
5. Schnorr Ø8
6. Gas Spring
7. M6x12 DIN 7991



STOCK ... 3D WEB




| ORDER EXAMPLE | Art. | S=50 | F1=50 |
|---|---|---|---|
| | C16.30. | 50 | 050 |

| OMCR CODE | F1 (daN) | F2 (daN) | L1 | L2 | L3 | L4 | L5 | S |
|---|---|---|---|---|---|---|---|---|
| C16.30.50050 | 50 | 86 | 196 | 51 | 127 | 80 | 100 | 50 |
| C16.30.50100 | 100 | 172 | 196 | 51 | 127 | 80 | 100 | 50 |
| C16.30.50150 | 150 | 258 | 196 | 51 | 127 | 80 | 100 | 50 |
| C16.30.50200 | 200 | 344 | 196 | 51 | 127 | 80 | 100 | 50 |
| C16.30.80050 | 50 | 86 | 256 | 81 | 157 | 110 | 130 | 80 |
| C16.30.80100 | 100 | 172 | 256 | 81 | 157 | 110 | 130 | 80 |
| C16.30.80150 | 150 | 258 | 256 | 81 | 157 | 110 | 130 | 80 |
| C16.30.80200 | 200 | 344 | 256 | 81 | 157 | 110 | 130 | 80 |

## FLANGE LIFTER - ABSTREIFER - SFLANGIATORE

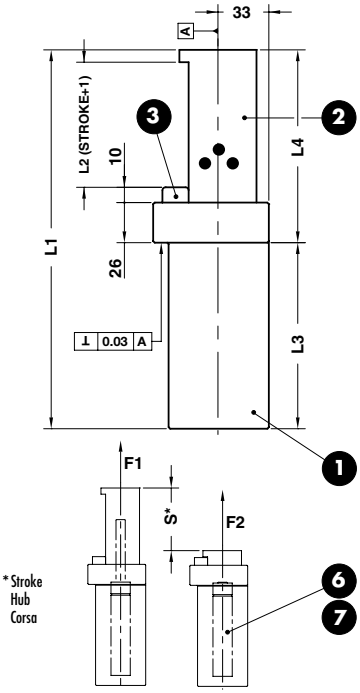
⚠
Do not exceed the stroke
Hub nicht überschreiten
Non superare la corsa

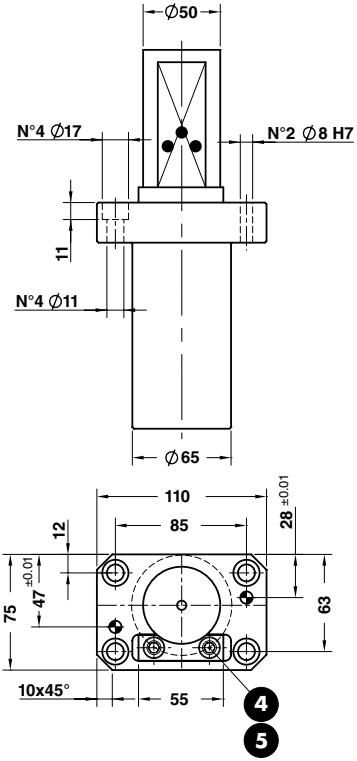
**Notes**

1. **Material:** EN-GJL300
2. **Material:** Bronze + Graphite - **HB**>190
3. **Material:** 36NiCrMo4
4. M8x25 DIN 912
5. Schnorr Ø8
6. Gas Spring
7. M6x12 DIN 7991



STOCK ... 3D WEB



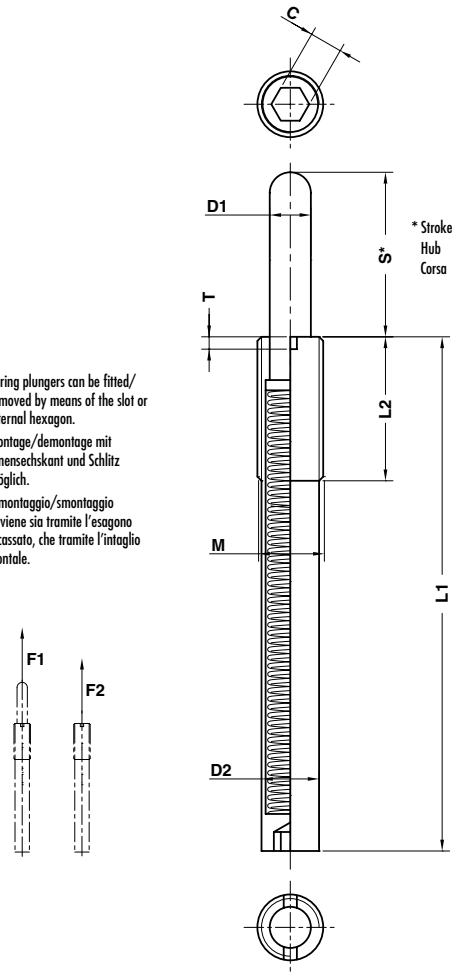




| ORDER EXAMPLE | Art. | S=50 | F1=50 |
|---|---|---|---|
| | C16.31. | 50 | 050 |

| OMCR CODE | F1 (daN) | F2 (daN) | L1 | L2 | L3 | L4 | S |
|---|---|---|---|---|---|---|---|
| C16.31.50050 | 50 | 86 | 196 | 51 | 101 | 95 | 50 |
| C16.31.50100 | 100 | 172 | 196 | 51 | 101 | 95 | 50 |
| C16.31.50150 | 150 | 258 | 196 | 51 | 101 | 95 | 50 |
| C16.31.50200 | 200 | 344 | 196 | 51 | 101 | 95 | 50 |
| C16.31.80050 | 50 | 86 | 256 | 81 | 131 | 125 | 80 |
| C16.31.80100 | 100 | 172 | 256 | 81 | 131 | 125 | 80 |
| C16.31.80150 | 150 | 258 | 256 | 81 | 131 | 125 | 80 |
| C16.31.80200 | 200 | 344 | 256 | 81 | 131 | 125 | 80 |

## SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA






Spring plungers can be fitted/ removed by means of the slot or internal hexagon.

Montage/demontage mit Innensechskant und Schlitz möglich.

Il montaggio/smontaggio avviene sia tramite l'esagono incassato, che tramite l'intaglio frontale.



STOCK

3D WEB

**Notes**

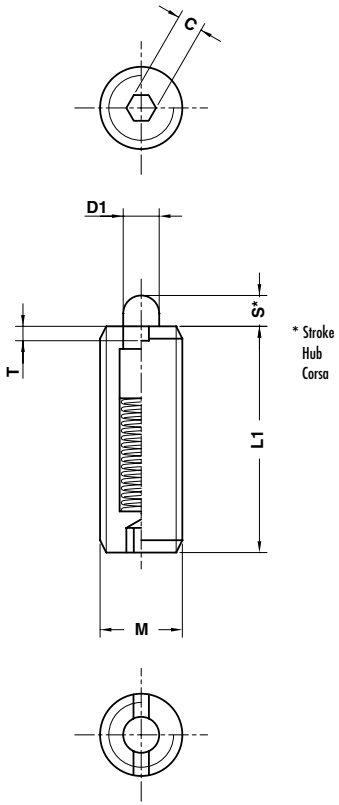
**Material:** Steel

| ORDER EXAMPLE | Art. | M=M16 | S=40 |
|---|---|---|---|
| | C16.40. | M16 | 40 |

| OMCR CODE | C | D1 | D2 | F1 (N) | F2 (N) | L1 | L2 | M | S | T |
|---|---|---|---|---|---|---|---|---|---|---|
| C16.40.M1210 | 4 | 5,5 | 9,5 | 7 | 40 | 45 | 35 | M12 | 10 | 2 |
| C16.40.M1615 | 5 | 8 | 13,4 | 15 | 80 | 60 | 35 | M16 | 15 | 3 |
| C16.40.M1620 | 5 | 8 | 13,4 | 17 | 80 | 85 | 35 | M16 | 20 | 3 |
| C16.40.M1630 | 5 | 8 | 13,4 | 20 | 80 | 125 | 35 | M16 | 30 | 3 |
| C16.40.M1640 | 8 | 8 | 13,4 | 20 | 80 | 125 | 35 | M16 | 40 | 3 |
| C16.40.M1650 | 8 | 8 | 13,4 | 30 | 100 | 155 | 35 | M16 | 50 | 3 |
| C16.40.M1660 | 8 | 8 | 13,4 | 20 | 80 | 155 | 35 | M16 | 60 | 3 |
| C16.40.M2415 | 8 | 10 | 19,6 | 40 | 200 | 60 | 45 | M24 | 15 | 3 |
| C16.40.M3020 | 12 | 15 | 22,5 | 50 | 300 | 80 | 45 | M30 | 20 | 3 |

## SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA






STOCK

3D WEB

**Notes**

**Material:** Steel

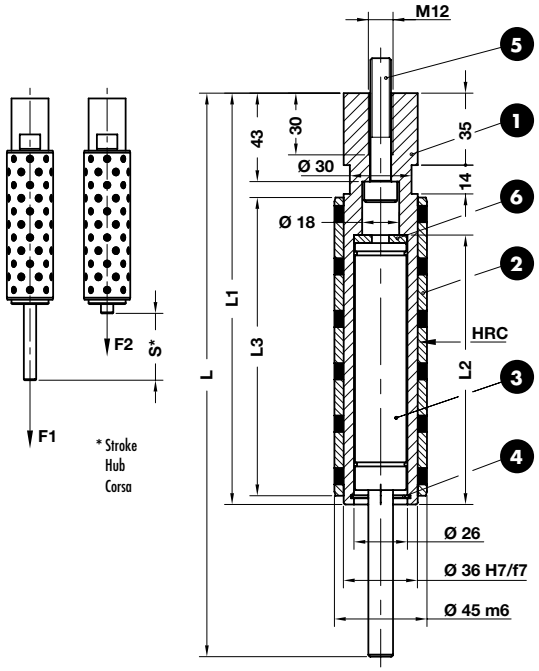
ORDER EXAMPLE

| Art. | M=M3 |
|---|---|
| C16.45. | M03 |

| OMCR CODE | C | D1 | F1 (N) | F2 (N) | L1 | M | S | T |
|---|---|---|---|---|---|---|---|---|
| C16.45.M03 | 0,7 | 1 | 2 | 4 | 10 | M3 | 1,5 | 0,5 |
| C16.45.M04 | 1,3 | 1,6 | 5 | 16 | 12 | M4 | 2 | 0,6 |
| C16.45.M05 | 1,5 | 2 | 6 | 19 | 20 | M5 | 3 | 0,8 |
| C16.45.M06 | 2 | 2,5 | 6 | 19 | 25 | M6 | 3 | 0,9 |
| C16.45.M08 | 2,5 | 3,1 | 10 | 39 | 25 | M8 | 4 | 1,4 |
| C16.45.M10 | 3 | 3,8 | 10 | 39 | 30 | M10 | 5 | 1,4 |
| C16.45.M12 | 4 | 5,5 | 12 | 53 | 30 | M12 | 5 | 2 |

## SPRING RAMS - FEDERBOLZEN - SOLLEVATORE








STOCK | ... | 3D WEB

### Notes

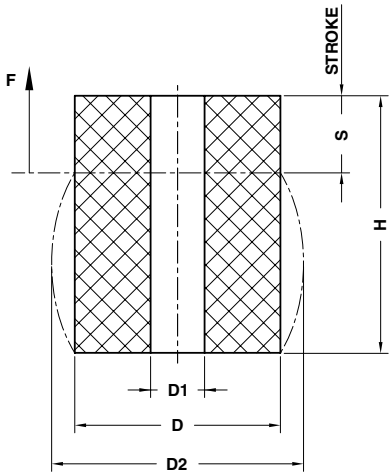
1. **Material:** CK45 - **HRC:** 58÷62
2. **Material:** Bronze+Graphite - **HB**>190
3. Gas Spring
4. DIN 472
5. M10x60 DIN 912
6. **Material:** 90MnCrV8 - **HRC:** 54÷60

ORDER EXAMPLE

| Art. | S=50 | F1=50 |
|---|---|---|
| C16.50. | 50 | 050 |

| OMCR CODE | F1 (daN) | F2 (daN) | L | L1 | L2 | L3 | S |
|---|---|---|---|---|---|---|---|
| C16.50.50050 | 50 | 68 | 240 | 182 | 118 | 115 | 50 |
| C16.50.50100 | 100 | 136 | 240 | 182 | 118 | 115 | 50 |
| C16.50.50150 | 150 | 204 | 240 | 182 | 118 | 115 | 50 |
| C16.50.50200 | 200 | 272 | 240 | 182 | 118 | 115 | 50 |
| C16.50.65050 | 50 | 68 | 274 | 200 | 135 | 145 | 65 |
| C16.50.65100 | 100 | 136 | 274 | 200 | 135 | 145 | 65 |
| C16.50.65150 | 150 | 204 | 274 | 200 | 135 | 145 | 65 |
| C16.50.65200 | 200 | 272 | 274 | 200 | 135 | 145 | 65 |
| C16.50.80050 | 50 | 68 | 314 | 220 | 155 | 170 | 80 |
| C16.50.80100 | 100 | 136 | 314 | 220 | 155 | 170 | 80 |
| C16.50.80150 | 150 | 204 | 314 | 220 | 155 | 170 | 80 |
| C16.50.80200 | 200 | 272 | 314 | 220 | 155 | 170 | 80 |

## ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO






STOCK 3D WEB

S = max. 30% H

**Notes**

**Material:** Elastomer 92SH

| ORDER EXAMPLE | Art. | D=63 | H=80 |
|---|---|---|---|
| | C17.10. | 063 | 080 |

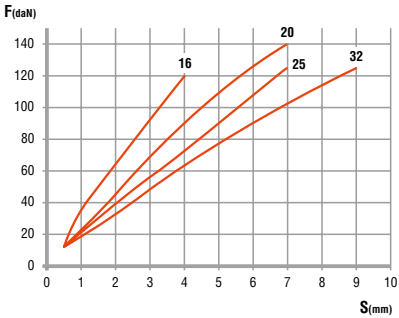
| D | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|---|---|---|
| D1 | 6,5 | 8,5 | 10,5 | 13,5 | 13,5 | 17 | 17 | 21 | 21 | 27 |
| D2 | 19 | 26 | 30 | 41 | 50 | 62 | 78 | 98 | 120 | 152 |
| F (daN) | 130 | 200 | 300 | 580 | 1250 | 1700 | 2600 | 4300 | 5900 | 9900 |

| H | S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 4,8 | • | • | • | • | | | | | | |
| 20 | 6 | • | • | • | • | • | | | | | |
| 25 | 7,5 | • | • | • | • | • | • | | | | |
| 32 | 9,6 | • | • | • | • | • | • | • | | | |
| 40 | 12 | | • | • | • | • | • | • | • | | |
| 50 | 15 | | | • | • | • | • | • | • | • | |
| 63 | 19 | | | | • | • | • | • | • | • | • |
| 80 | 24 | | | | | • | • | • | • | • | • |
| 100 | 30 | | | | | | • | • | • | • | • |
| 125 | 37,5 | | | | | | | • | • | • | • |
| 160 | 48 | | | | | | | | • | • | • |

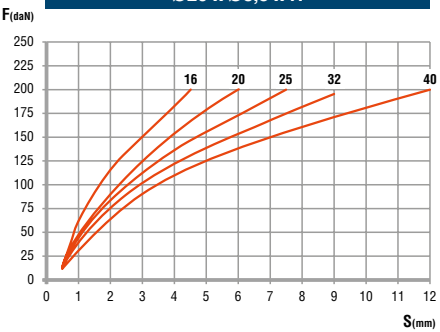
# LOAD DIAGRAMS FOR ELASTOMER SPRINGS 92SH
# KRAFT-WEG-DIAGRAMM ELASTOMERFEDERN 92SH
# DIAGRAMMI DI CARICO MOLLE IN ELASTOMERO 92SH



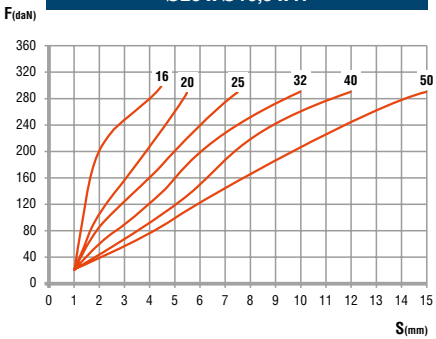
## Ø16 x Ø6,5 x H



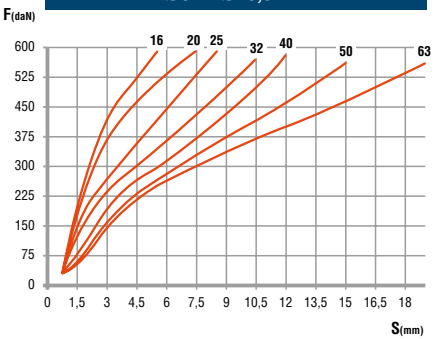

## Ø20 x Ø8,5 x H



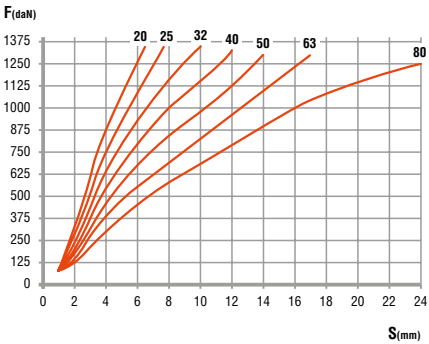

## Ø25 x Ø10,5 x H




## Ø32 x Ø13,5 x H

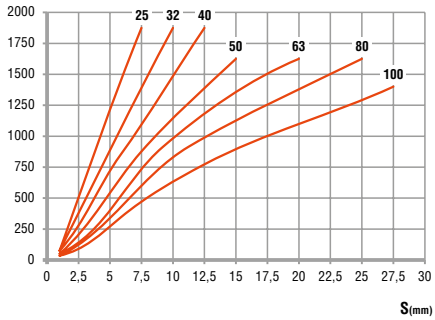



## Ø40 x Ø13,5 x H

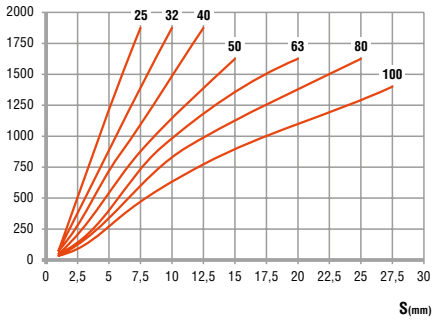


## LOAD DIAGRAMS FOR ELASTOMER SPRINGS 92SH
## KRAFT-WEG-DIAGRAMM ELASTOMERFEDERN 92SH
## DIAGRAMMI DI CARICO MOLLE IN ELASTOMERO 92SH

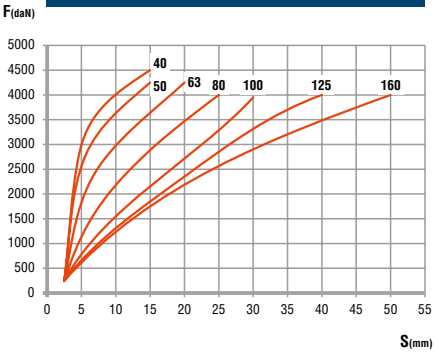
### Ø50 x Ø17 x H



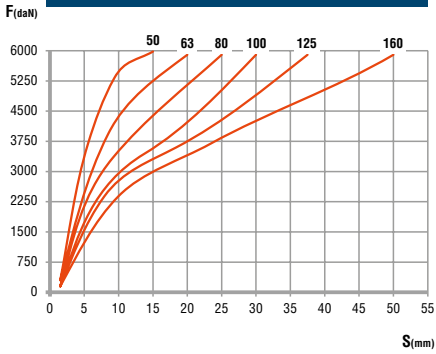

### Ø63 x Ø17 x H



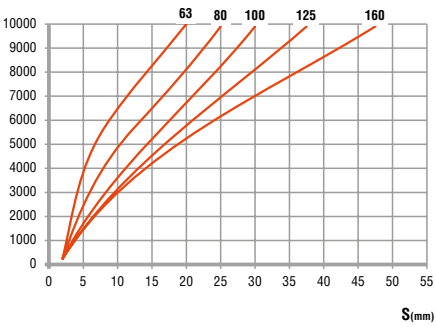

### Ø80 x Ø21 x H




### Ø100 x Ø21 x H

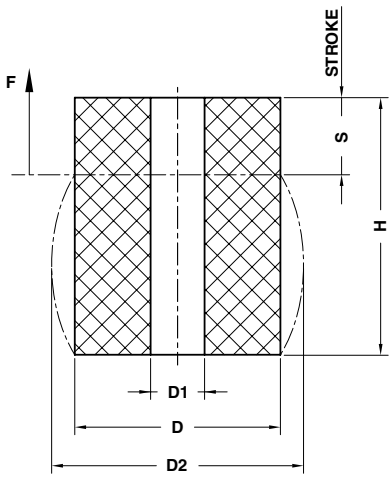



### Ø125 x Ø27 x H



## ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO








STOCK 3D WEB

**Notes**

**Material:** Elastomer 70 Shore

ORDER EXAMPLE

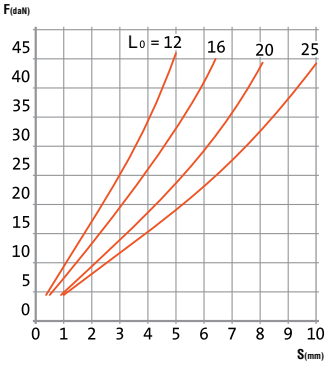
| Art. | D=63 | H=80 |
|---|---|---|
| C17.11. | 063 | 080 |

| D | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|---|---|---|
| D1 | 6,5 | 8,5 | 10,5 | 13,5 | 13,5 | 17 | 17 | 21 | 21 | 27 |
| D2 | 19 | 26 | 30 | 41 | 50 | 62 | 78 | 98 | 120 | 152 |
| F (daN) | 40 | 50 | 90 | 225 | 400 | 600 | 1000 | 1800 | 3000 | 5000 |

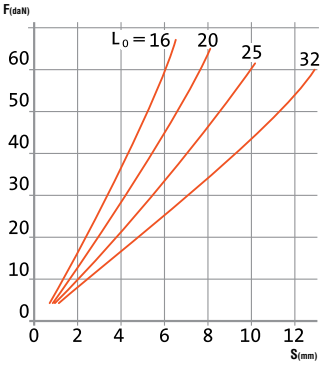
| H | S | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 4,8 | • | | | | | | | | | |
| 16 | 6,4 | • | • | | | | | | | | |
| 20 | 8 | • | • | • | | | | | | | |
| 25 | 10 | • | • | • | | | | | | | |
| 32 | 12,8 | | • | • | • | • | • | • | • | • | • |
| 40 | 16 | | | • | • | • | • | • | • | • | • |
| 50 | 20 | | | | • | • | • | • | • | • | • |
| 63 | 25,2 | | | | • | • | • | • | • | • | • |
| 80 | 32 | | | | | • | • | • | • | • | • |
| 100 | 40 | | | | | | • | • | • | • | • |
| 125 | 50 | | | | | | | • | • | • | • |
| 160 | 64 | | | | | | | | | | • |

# LOAD DIAGRAMS FOR ELASTOMER SPRINGS 70 SHORE
# KRAFT-WEG-DIAGRAMM ELASTOMERFEDERN 70 SHORE
# DIAGRAMMI DI CARICO MOLLE IN ELASTOMERO 70 SHORE

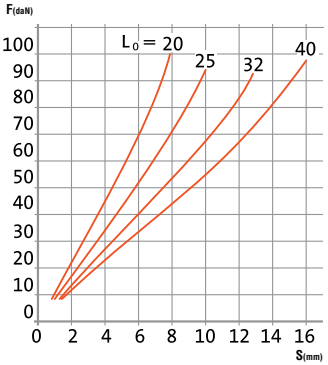
**Ø16 x Ø6,5 x H**



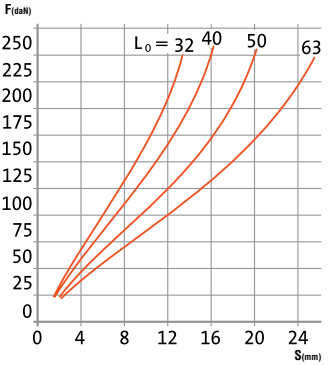

**Ø20 x Ø8,5 x H**



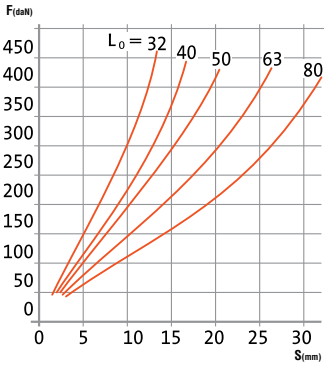

**Ø25 x Ø10,5 x H**




**Ø32 x Ø13,5 x H**



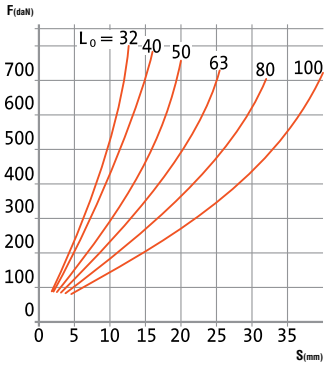

**Ø40 x Ø13,5 x H**



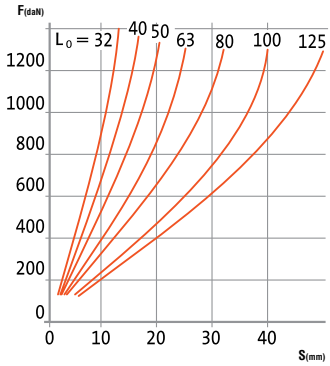
# LOAD DIAGRAMS FOR ELASTOMER SPRINGS 70 SHORE
# KRAFT-WEG-DIAGRAMM ELASTOMERFEDERN 70 SHORE
# DIAGRAMMI DI CARICO MOLLE IN ELASTOMERO 70 SHORE



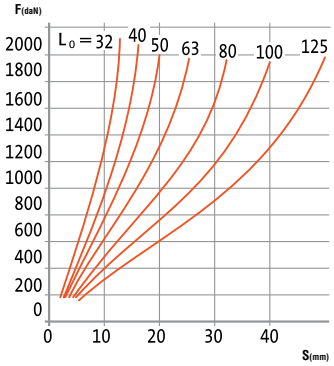
## Ø50 x Ø17 x H



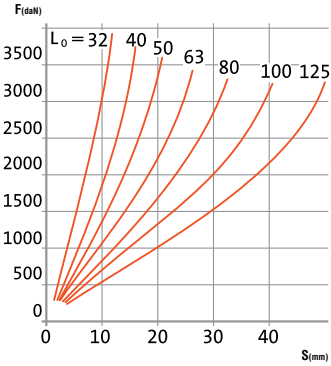

## Ø63 x Ø17 x H



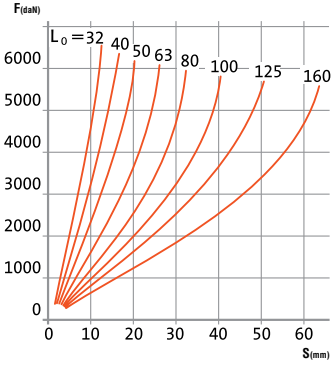

## Ø80 x Ø21 x H




## Ø100 x Ø21 x H




## Ø125 x Ø27 x H

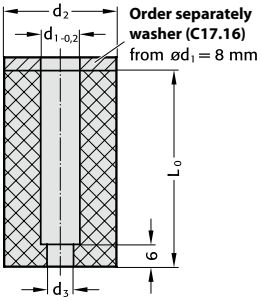


# C17.15

OMCR

## ELASTOMER STRIPPER - ABSTREIFER - ESTRATTORE PER PUNZONI

STOCK 3D

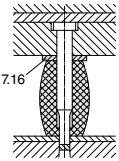





### Notes

**Material:** Elastomer 95SH

### Application example




ORDER EXAMPLE

| Art. | D1 = 4 | L |
|---|---|---|
| C17.15. | 04 | 39 |

| CODE | d1 | d2 | d3 | L |
|---|---|---|---|---|
| C17.15.0439 | 4 | 17 | 1,6 | 39 |
| C17.15.0447 | 4 | 17 | 1,6 | 47 |
| C17.15.0456 | 4 | 17 | 1,6 | 56 |
| C17.15.0639 | 6 | 19 | 1,6 | 39 |
| C17.15.0647 | 6 | 19 | 1,6 | 47 |
| C17.15.0656 | 6 | 19 | 1,6 | 56 |
| C17.15.0839 | 8 | 21 | 3 | 39 |
| C17.15.0847 | 8 | 21 | 3 | 47 |
| C17.15.0856 | 8 | 21 | 3 | 56 |
| C17.15.1039 | 10 | 23 | 3 | 39 |
| C17.15.1047 | 10 | 23 | 3 | 47 |
| C17.15.1056 | 10 | 23 | 3 | 56 |

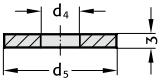
| CODE | d1 | d2 | d3 | L |
|---|---|---|---|---|
| C17.15.1339 | 13 | 26 | 3 | 39 |
| C17.15.1347 | 13 | 26 | 3 | 47 |
| C17.15.1356 | 13 | 26 | 3 | 56 |
| C17.15.1639 | 16 | 30 | 3 | 39 |
| C17.15.1647 | 16 | 30 | 3 | 47 |
| C17.15.1656 | 16 | 30 | 3 | 56 |
| C17.15.2039 | 20 | 38 | 3 | 39 |
| C17.15.2047 | 20 | 38 | 3 | 47 |
| C17.15.2056 | 20 | 38 | 3 | 56 |
| C17.15.2539 | 25 | 50 | 3 | 39 |
| C17.15.2547 | 25 | 50 | 3 | 47 |
| C17.15.2556 | 25 | 50 | 3 | 56 |

# C17.16

OMCR

## WASHER - SCHEIBE - RONDELLA

STOCK 3D






ORDER EXAMPLE

| Art. | D4 = 8,5 |
|---|---|
| C17.16. | 085 |

| CODE | d4 | d5 |
|---|---|---|
| C17.16.085 | 8,5 | 21 |
| C17.16.105 | 10,5 | 23 |
| C17.16.130 | 13 | 26 |
| C17.16.135 | 13,5 | 26 |
| C17.16.165 | 16,5 | 30 |

| CODE | d4 | d5 |
|---|---|---|
| C17.16.205 | 20,5 | 38 |
| C17.16.255 | 25,5 | 50 |
| C17.16.325 | 32,5 | 55 |
| C17.16.385 | 38,5 | 60 |
| C17.16.405 | 40,5 | 63 |

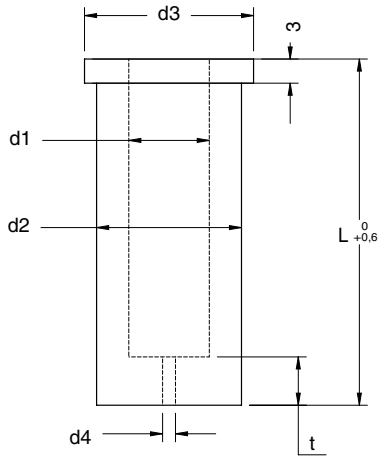
### Notes

**Material:** Steel

## ELASTOMER STRIPPER - ABSTREIFER - ESTRATTORE PER PUNZONI



STOCK 3D

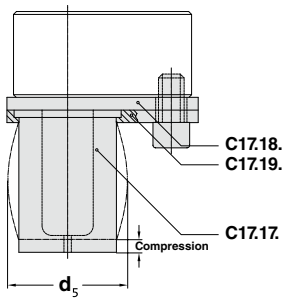





### Notes

**Material:** Elastomer 95SH A

### Application example




* values for the stripping force are dependent on a number of parameters (e.g. lubricant, temperature etc.) and may vary from those given here.
** max spring travel should not exceed 15% of the length

ORDER EXAMPLE

| Art. | d1 | L |
|---|---|---|
| C17.17. | 10 | 43 |

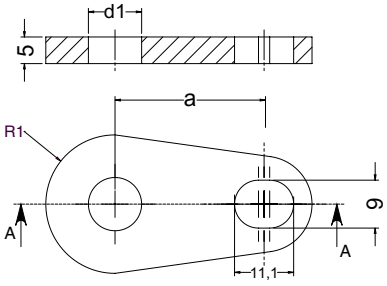
| CODE | d1 | d2 | d3 | d4 | d5 | t | L |
|---|---|---|---|---|---|---|---|
| **C17.17.1043** | 10 | 18 | 21 | 1,6 | 22 | 6 | 43 |
| **C17.17.1053** | 10 | 18 | 21 | 1,6 | 22 | 6 | 53 |
| **C17.17.1063** | 10 | 18 | 21 | 1,6 | 22 | 6 | 63 |
| **C17.17.1343** | 13 | 23 | 26 | 3 | 26,5 | 6 | 43 |
| **C17.17.1353** | 13 | 23 | 26 | 3 | 26,5 | 6 | 53 |
| **C17.17.1363** | 13 | 23 | 26 | 3 | 26,5 | 6 | 63 |
| **C17.17.1373** | 13 | 23 | 26 | 3 | 26,5 | 6 | 73 |
| **C17.17.1643** | 16 | 28 | 31 | 3 | 34 | 6 | 43 |
| **C17.17.1653** | 16 | 28 | 31 | 3 | 34 | 6 | 53 |
| **C17.17.1663** | 16 | 28 | 31 | 3 | 34 | 6 | 63 |
| **C17.17.1673** | 16 | 28 | 31 | 3 | 34 | 6 | 73 |
| **C17.17.2043** | 20 | 33 | 36 | 3 | 38 | 7 | 43 |
| **C17.17.2053** | 20 | 33 | 36 | 3 | 38 | 7 | 53 |
| **C17.17.2063** | 20 | 33 | 36 | 3 | 38 | 7 | 63 |
| **C17.17.2073** | 20 | 33 | 36 | 3 | 38 | 7 | 73 |
| **C17.17.2543** | 25 | 40 | 43 | 3 | 47,5 | 7 | 43 |
| **C17.17.2553** | 25 | 40 | 43 | 3 | 47,5 | 7 | 53 |
| **C17.17.2563** | 25 | 40 | 43 | 3 | 47,5 | 7 | 63 |
| **C17.17.2573** | 25 | 40 | 43 | 3 | 47,5 | 7 | 73 |

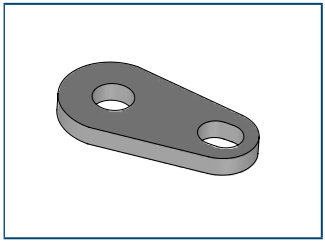
| STROKE** | 3mm | 6mm | 9mm | 3mm | 6mm | 9mm | 3mm | 6mm | 9mm | 3mm | 6mm | 9mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LENGHT | 43 | 43 | 43 | 53 | 53 | 53 | 63 | 63 | 63 | 73 | 73 | 73 |
| d1 | Stripping forces (N)* | | | | | | | | | | | |
| 10 | 1060 | 1820 | - | 900 | 1650 | - | 720 | 1450 | 1860 | - | - | - |
| 13 | 1700 | 2850 | - | 1460 | 2610 | - | 1170 | 2320 | 2910 | 930 | 2080 | 2500 |
| 16 | 2310 | 3900 | - | 1990 | 3560 | - | 1590 | 3150 | 3980 | 1270 | 2810 | 3440 |
| 20 | 2900 | 4900 | - | 2500 | 4470 | - | 2000 | 3950 | 5000 | 1590 | 3420 | 4330 |
| 25 | 4440 | 7520 | - | 3810 | 6860 | - | 3050 | 6050 | 7680 | 2420 | 5390 | 6780 |

# C17.18

OMCR

## STRIPPING UNIT- PRESSURE PLATE
## ABSTREIFER - DRUCKPLATTE
## PIASTRA PREMENTE DELL´ESTRATTORE



STOCK 3D

ORDER EXAMPLE

| Art. | d1 = 10 |
|---|---|
| C17.18. | 010 |

**Notes**

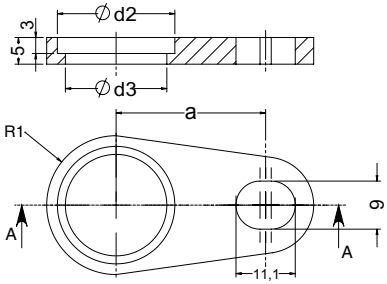
**Material:** St37

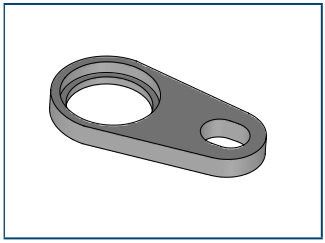
| CODE | d1 | R1 | A |
|---|---|---|---|
| C17.18.010 | 10 | 13 | 28 |
| C17.18.013 | 13 | 15,5 | 31 |
| C17.18.016 | 16 | 18 | 32,9 |
| C17.18.020 | 20 | 20,5 | 34,8 |
| C17.18.025 | 25 | 24 | 39,8 |

# C17.19

OMCR

## STRIPPING UNIT - MOUNTING PLATE
## ABSTREIFER - HALTEPLATTE
## PIASTRA DI FISSAGGIO DELL´ESTRATTORE



STOCK 3D

ORDER EXAMPLE

| Art. | d1 = 10 |
|---|---|
| C17.19. | 010 |

**Notes**

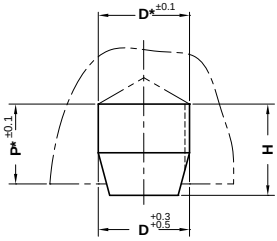
**Material:** St37

| CODE | d1 | d2 | d3 | R1 | A |
|---|---|---|---|---|---|
| C17.19.010 | 10 | 22 | 19 | 13 | 28 |
| C17.19.013 | 13 | 27 | 24 | 15,5 | 31 |
| C17.19.016 | 16 | 32 | 29 | 18 | 32,9 |
| C17.19.020 | 20 | 37 | 34 | 20,5 | 34,8 |
| C17.19.025 | 25 | 44 | 41 | 24 | 39,8 |

# C17.20

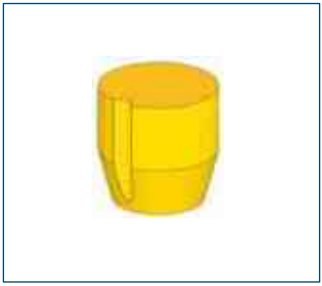
OMCR

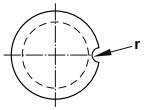
## ELASTOMER CAP - ELASTOMERDRUCKSTÜCK - PUNTALINO IN ELASTOMERO




STOCK

3D WEB






* Seat
Sitz
Sede

ORDER EXAMPLE

| Art. | D=6 | H=10 |
|---|---|---|
| C17.20. | 06 | 10 |

| OMCR CODE | D | F max. (N) | H | P | r |
|---|---|---|---|---|---|
| C17.20.0610 | 6 | 100 | 10 | 8 | 0 |
| C17.20.1015 | 10 | 450 | 15 | 13 | 1 |
| C17.20.1625 | 16 | 1500 | 25 | 21 | 1,5 |
| C17.20.2425 | 24 | 3000 | 25 | 20 | 2 |
| C17.20.3035 | 30 | 3000 | 35 | 30 | 2,5 |
| C17.20.3232 | 32 | 12000 | 32 | 26 | 3 |
| C17.20.3940 | 39,5 | 25000 | 40 | 34 | 3 |
| C17.20.4040 | 40 | 25000 | 40 | 35 | 3 |

### Notes

**Material:** Elastomer 90SH

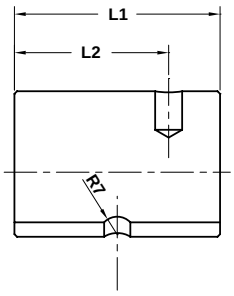
# C17.21

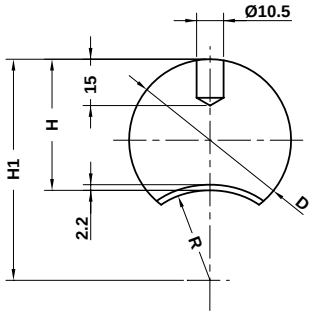
OMCR

## SHOCK ABSORBER - HALTEELEMENT - AMMORTIZZATORE

3D WEB

STOCK



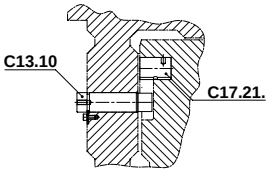






### Notes

**Material:** Elastomer 92SH

### Application example

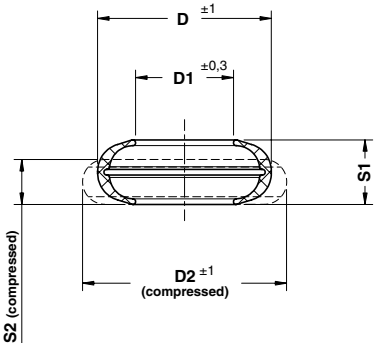



ORDER EXAMPLE

| Art. | D=50 | L1=80 |
|---|---|---|
| C17.21. | 50 | 80 |

| OMCR CODE | D | H | H1 | L1 | L2 | R |
|---|---|---|---|---|---|---|
| C17.21.4060 | 40 | 32 | 50 | 60 | 45 | 18 |
| C17.21.5080 | 50 | 40 | 63 | 80 | 60 | 23 |
| C17.21.6380 | 63 | 51 | 86 | 80 | 60 | 35 |

## ANTI-REBOUND ELASTOMER - DÄMPFUNGSELEMENT - AMMORTIZZATORE ANTIRIMBALZO






STOCK

3D WEB

**Notes**

**Material:** CO-Polyester Elastomer

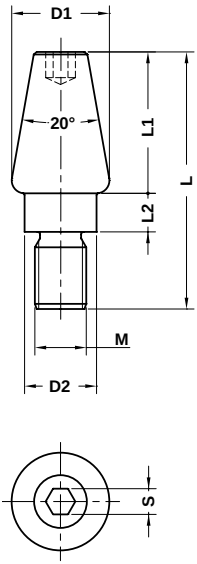
ORDER EXAMPLE

| Art. | D=32,1 | S1=10,8 |
|---|---|---|
| C17.27. | 321 | 108 |

| OMCR CODE | D | D1 | D2 | F max. (daN) | S1 | S2 |
|---|---|---|---|---|---|---|
| **C17.27.262077** | 26,4 | 16,3 | 28,4 | 550 | 7,8 | 5,5 |
| **C17.27.321108** | 32,1 | 20,3 | 35,1 | 900 | 10,8 | 6,0 |
| **C17.27.463177** | 45,8 | 25,3 | 49,8 | 2000 | 17,0 | 11,6 |
| **C17.27.546216** | 54,6 | 30,3 | 61,8 | 3000 | 21,3 | 13,0 |
| **C17.27.618215** | 61,8 | 36,3 | 69,9 | 4600 | 21,5 | 13,2 |
| **C17.27.782300** | 78,5 | 42,8 | 89,0 | 7500 | 29,4 | 17,9 |

## ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE IN ELASTOMERO







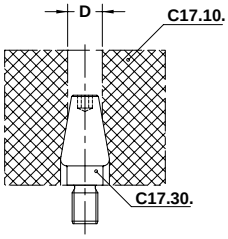

STOCK

3D WEB

### Notes

**Material:** CK45

### Application example




| ORDER EXAMPLE | Art. | D1 | M=M16 |
|---|---|---|---|
| | C17.30. | 32 | M16 |

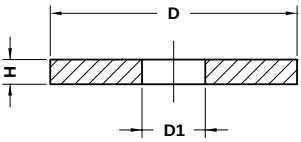
| OMCR CODE | D | D1 | D2 | L | L1 | L2 | M | S |
|---|---|---|---|---|---|---|---|---|
| C17.30.28M12 | 17 | 28 | 19 | 56 | 30 | 8 | M12 | 6 |
| C17.30.32M16 | 21 | 32 | 22 | 74 | 40 | 10 | M16 | 8 |
| C17.30.38M20 | 27 | 38 | 28 | 100 | 55 | 15 | M20 | 10 |

# WASHER FOR ELASTOMER SPRINGS - FEDERSCHEIBE - RONDELLA PER MOLLE IN ELASTOMERO



STOCK

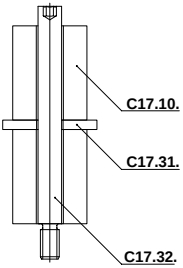
3D WEB




## Notes

**Material:** CK45

## Application example



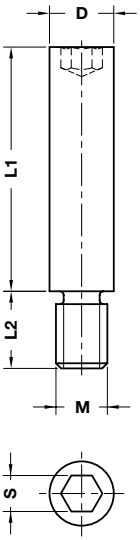

ORDER EXAMPLE

| Art. | D=20 |
|---|---|
| C17.31. | 020 |

| OMCR CODE | D | D1 | H |
|---|---|---|---|
| C17.31.020 | 20 | 6,5 | 4 |
| C17.31.025 | 25 | 8,5 | 4 |
| C17.31.030 | 30 | 10,5 | 5 |
| C17.31.040 | 40 | 13,5 | 5 |
| C17.31.050 | 50 | 13,5 | 5 |
| C17.31.060 | 60 | 16,5 | 6 |
| C17.31.080 | 80 | 16,5 | 6 |
| C17.31.100 | 100 | 20,5 | 8 |
| C17.31.120 | 120 | 20,5 | 8 |
| C17.31.150 | 150 | 26 | 8 |

## COLUMN DIN 9835 - FÜHRUNGSBOLZEN DIN 9835 - COLONNA DI GUIDA DIN 9835







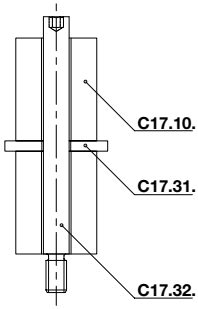

STOCK

3D WEB

### Notes

**Material:** CK45

### Application example



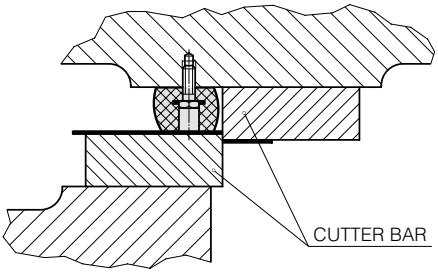

ORDER EXAMPLE

| Art. | D=6 | L1=20 |
|---|---|---|
| C17.32. | 06 | 020 |

| D | 6 | 8 | 10 | 13 | 16 | 20 | 25 |
|---|---|---|---|---|---|---|---|
| L2 | 6 | 9 | 15 | 15 | 18 | 25 | 30 |
| M | M4 | M6 | M8 | M10 | M12 | M16 | M20 |
| S | 3 | 4 | 5 | 6 | 8 | 10 | 14 |
| **L1** | | | | | | | |
| 20 | • | • | • | | | | |
| 25 | • | • | • | | | | |
| 32 | • | • | • | • | • | • | • |
| 40 | | • | • | • | • | • | • |
| 50 | | • | • | • | • | • | • |
| 63 | | | • | • | • | • | • |
| 80 | | | | • | • | • | • |
| 95 | | | | • | • | • | • |
| 118 | | | | | • | • | • |
| 140 | | | | | • | • | • |
| 180 | | | | | | | • |

# STRIPPER FOR BLANKING DIES - ABSTREIFER FÜR PLATINENSCHNITTE - ESTRATTORE PER STAMPI

## Application example



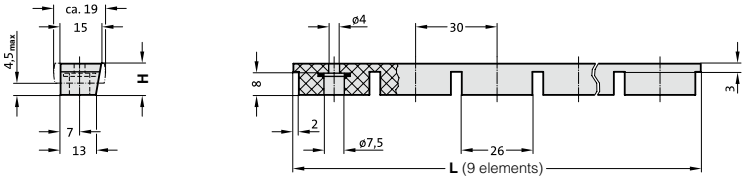



STOCK 3D WEB

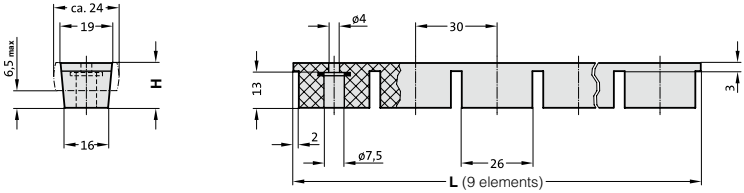
## Notes

**Material:** Elastomer 70 SH

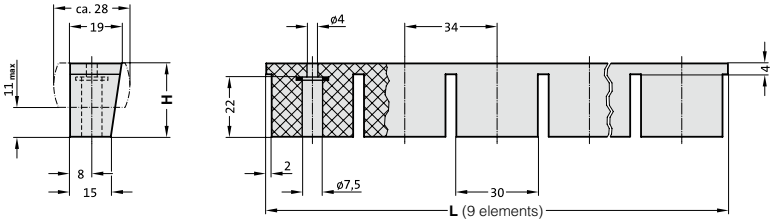
**C17.40.11270**




**C17.40.16270**




**C17.40.27306**

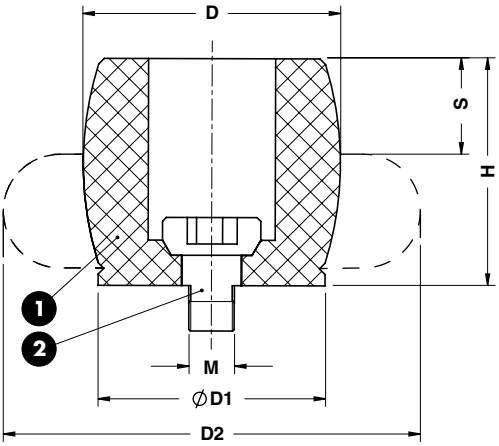



| ORDER EXAMPLE | Art. | H=11,5 | L=270 |
|---|---|---|---|
| | C17.40. | 11 | 270 |

| OMCR CODE | H | L |
|---|---|---|
| C17.40.11270 | 11,5 | 270 |
| C17.40.16270 | 16,5 | 270 |
| C17.40.27306 | 27 | 306 |

## ANTI-REBOUND ELASTOMER - DÄMPFUNGSELEMENT - AMMORTIZZATORE ANTIRIMBALZO








STOCK ... 3D WEB

**Notes**

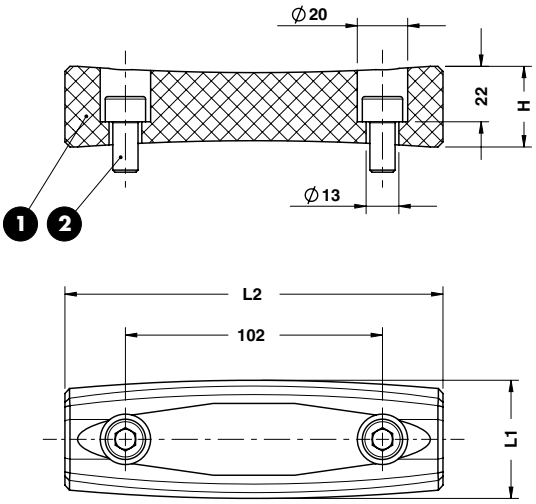
1. **Material:** CO-Polyester Elastomer
2. Screw

ORDER EXAMPLE

| Art. |
|---|
| C17.51.1211 |

| OMCR CODE | D | D1 | D2 | M | H | S | Nm/S |
|---|---|---|---|---|---|---|---|
| **C17.51.1211** | 12 | 11 | 15 | 3 | 11 | 4 | 2 |
| **C17.51.1716** | 17 | 15 | 22 | 4 | 16 | 6 | 6 |
| **C17.51.2118** | 21 | 18 | 26 | 5 | 18 | 7 | 10 |
| **C17.51.2219** | 22 | 19 | 27 | 6 | 19 | 6 | 11.5 |
| **C17.51.2826** | 28 | 25 | 36 | 6 | 26 | 9 | 29 |
| **C17.51.3430** | 34 | 30 | 43 | 6 | 30 | 10 | 48 |
| **C17.51.3733** | 37 | 33 | 48 | 8 | 33 | 12 | 65 |

## ANTI-REBOUND ELASTOMER - DÄMPFUNGSELEMENT - AMMORTIZZATORE ANTIRIMBALZO






STOCK ... 3D WEB

### Notes

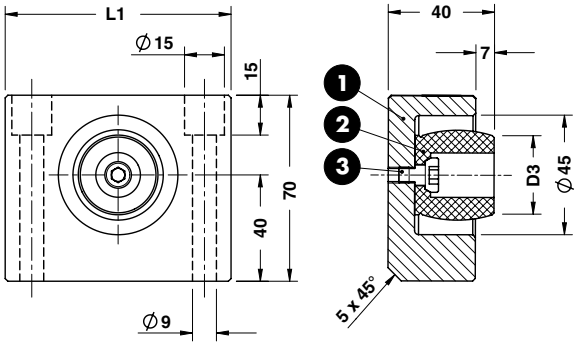
1. **Material:** CO-Polyester Elastomer
2. M10 DIN 912

| ORDER EXAMPLE | Art. | H=32 | L1=47 | L2=150 |
|---|---|---|---|---|
| | C17.52. | 32 | 47 | 150 |

| OMCR CODE | H | L1 | L2 |
|---|---|---|---|
| C17.52.2952153 | 29 | 52 | 153 |
| C17.52.3247150 | 32 | 47 | 150 |

## ANTI-REBOUND SLIDE STOP - ARRETIERUNG GEGEN RÜCKFEDERUNG - ARRESTO ANTIRIMBALZO



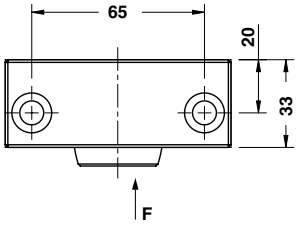





STOCK ... 3D WEB

**Notes**

1. **Material:** CK45
2. C17.51
3. Screw

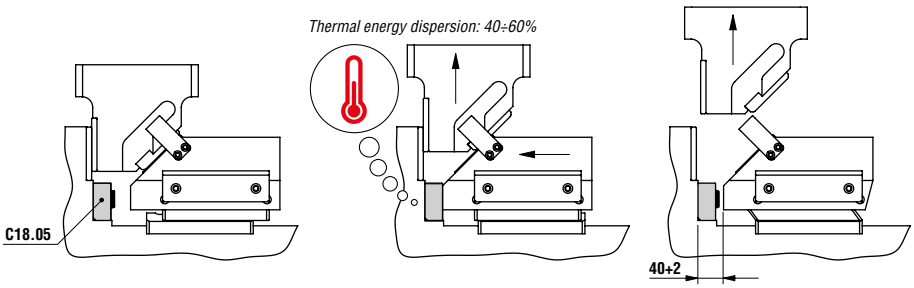



| ORDER EXAMPLE | Art. | L1=85 | D3=30 |
|---|---|---|---|
| | C18.05. | 85 | 30 |

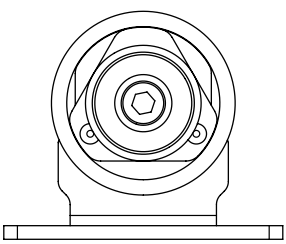
* Maximum absorbed energy
Engergieaufnahme
Massima energia assorbita

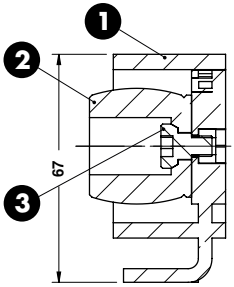
| OMCR CODE | L1 | D3 | F max (kN) | Max Energy Absorbed (J)* | Max Stroke (mm) |
|---|---|---|---|---|---|
| C18.05.8530 | 85 | 30 | 3,75 | 8 | 7 |

### Application example



## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA

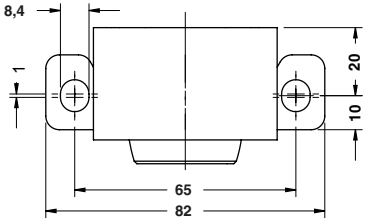







**Notes**

1. **Material:** St37
2. **Material:** CO-Polyester Elastomer
3. M6x12 DIN 912

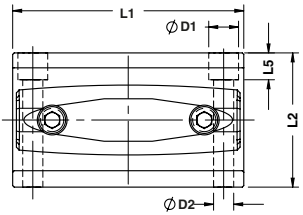


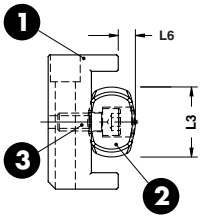

| ORDER EXAMPLE | Art. |
|---|---|
| | C18.06.01 |

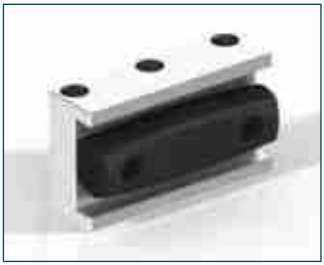
| OMCR CODE | F max (kN) | Max Energy Absorbed (J)* | Max Stroke (mm) |
|---|---|---|---|
| C18.06.01 | 3,75 | 8 | 7 |

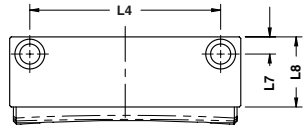
## ANTI-REBOUND SLIDE STOP - ARRETIERUNG GEGEN RÜCKFEDERUNG - ARRESTO ANTIRIMBALZO



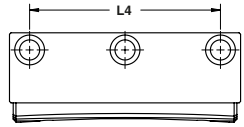





**FORM A**




**FORM B**

STOCK ... 3D WEB

### Notes

1. **Material:** CK45
2. C17.52
3. M10 DIN 912

* Maximum absorbed energy
Engergieaufnahme
Massima energia assorbita

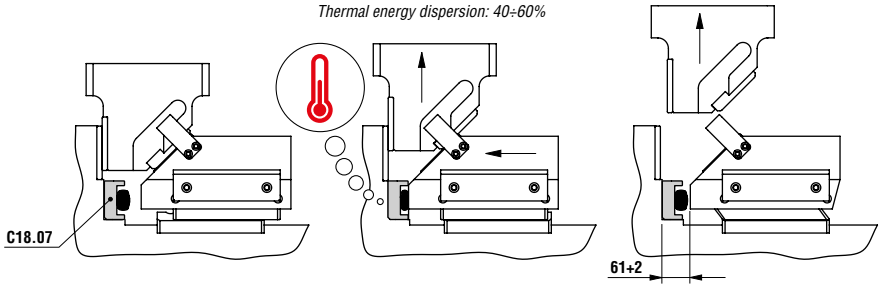
| ORDER EXAMPLE | Art. | L1=155 | L2=90 | L3=52 |
|---|---|---|---|---|
| | C18.07. | 155 | 90 | 52 |

| OMCR CODE | F max (kN) | Max Energy Absorbed (J)* | Max Stroke (mm) | Nr. of screws | FORM |
|---|---|---|---|---|---|
| C18.07.1558047 | 155 | 210 | 10,3 | 2 | A |
| C18.07.1559047 | 47 | 160 | 14 | 3 | B |
| C18.07.1559052 | 370 | 230 | 7 | 2 | A |

| OMCR CODE | L1 | L2 | L3 | L4 | L5 | L6 | L7 | D1 | D2 |
|---|---|---|---|---|---|---|---|---|---|
| C18.07.1558047 | 155 | 80 | 47 | 130 | 9 | 10,3 | 10 | 15 | 9 |
| C18.07.1559047 | 155 | 90 | 47 | 128 | 18 | 14 | 11,5 | 20 | 13,5 |
| C18.07.1559052 | 155 | 90 | 52 | 130 | 19 | 7 | 10 | 15 | 9 |

### Application example

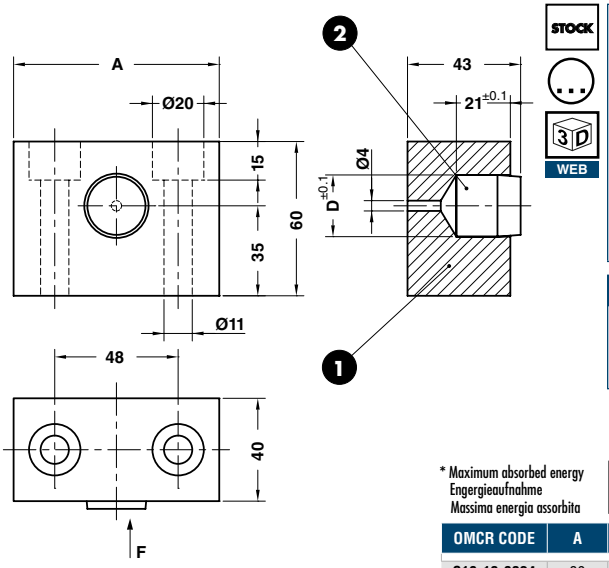
*Thermal energy dispersion: 40÷60%*

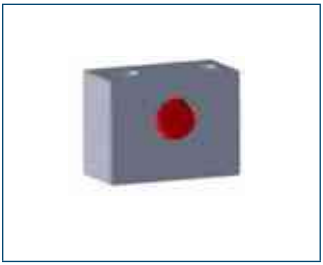


# C18.10

OMCR

## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA



**Notes**

1. **Material:** CK45
2. C17.20.2425

* Maximum absorbed energy
Engergieaufnahme
Massima energia assorbita

ORDER EXAMPLE

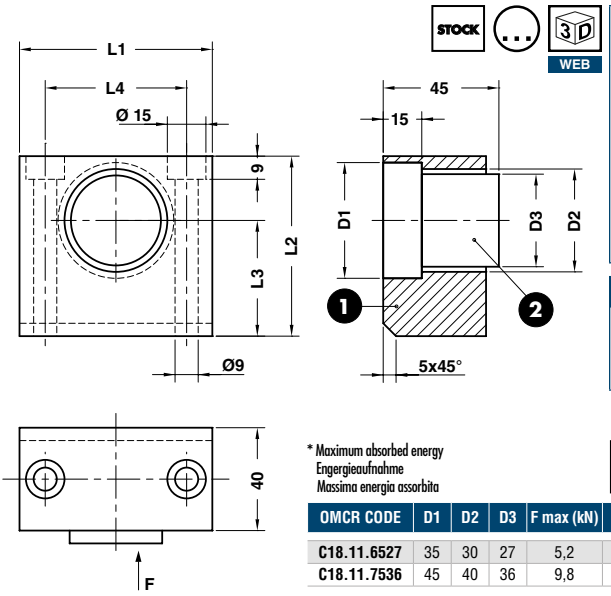
| Art. | A=80 | D=24 |
|---|---|---|
| C18.10. | 80 | 24 |

| OMCR CODE | A | D | F max (kN) | Max Energy Absorbed (J)* |
|---|---|---|---|---|
| C18.10.8024 | 80 | 24 | 3 | 4,8 |

# C18.11

OMCR

## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA






**Notes**

1. **Material:** CK45
2. **Material:** Elastomer 90 SH

* Maximum absorbed energy
Engergieaufnahme
Massima energia assorbita

ORDER EXAMPLE

| Art. | L1=65 | D3=27 |
|---|---|---|
| C18.11. | 65 | 27 |

| OMCR CODE | D1 | D2 | D3 | F max (kN) | L1 | L2 | L3 | L4 | Max Energy Absorbed (J)* |
|---|---|---|---|---|---|---|---|---|---|
| C18.11.6527 | 35 | 30 | 27 | 5,2 | 65 | 60 | 40 | 45 | 13 |
| C18.11.7536 | 45 | 40 | 36 | 9,8 | 75 | 70 | 45 | 55 | 24,5 |

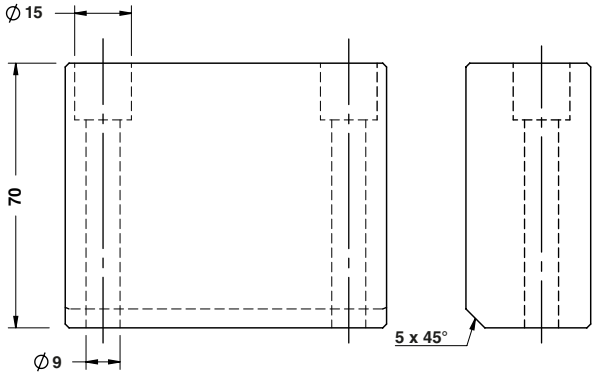
## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA

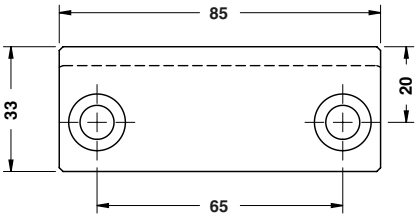


WEB

STOCK






### Notes

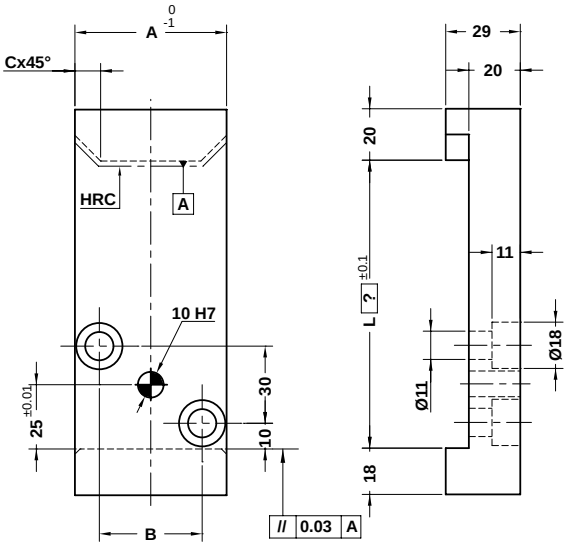
**Material:** CK45

ORDER EXAMPLE

| Art. |
| --- |
| C18.12.01 |

| OMCR CODE |
| --- |
| C18.12.01 |

## POSITIVE RETURN PLATE - ZWANGSRÜCKHOLER - GANCIO DI SICUREZZA



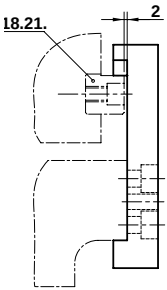



10 3D WEB

### Notes

**Material:** CK45 - **HRC:** 52÷54

### Application example

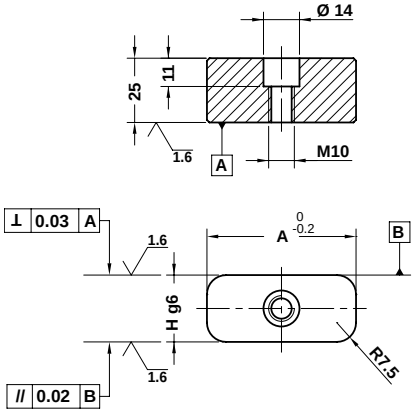



| ORDER EXAMPLE | Art. | A=35 | L=? |
|---|---|---|---|
| | C18.20. | 35 | 80 |

| OMCR CODE | A | B | C |
|---|---|---|---|
| C18.20.35 | 35 | 15 | 7 |
| C18.20.60 | 60 | 40 | 10 |

## KEY - PASSFEDER - CHIAVETTA






* For adjustment
Für umrüsten
Per adattamento



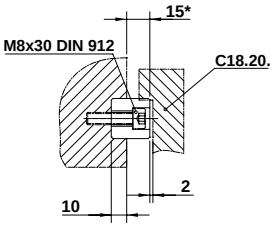
STOCK

3D WEB

### Notes

**Material:** 90MnCrV8 - **HRC:** 58÷60

### Application example




| ORDER EXAMPLE | Art. | H=26 | A=35 |
|---|---|---|---|
| | C18.21. | 26 | 35 |

| OMCR CODE | H | A |
|---|---|---|
| C18.21.2635 | 26 | 35 |
| C18.21.2660 | 26 | 60 |

# CAM BLANK-HOLDER GUIDE - FÜHRUNG FÜR ZIEHKISSEN - GUIDA PER PREMILAMIERA

## Notes

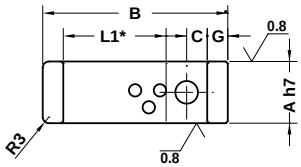
**Material:** Bronze + Graphite - **HB** >190

STOCK

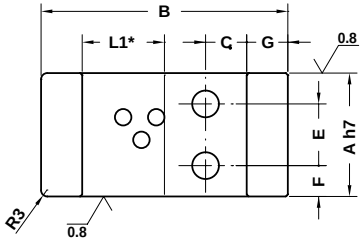
WEB

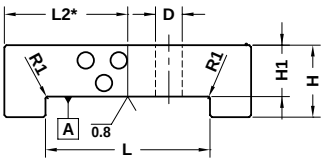


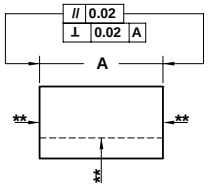
**"FORM A"**




**"FORM B"**




ORDER EXAMPLE

| Art. | A=30 | B=70 |
|---|---|---|
| C18.25. | 030 | 070 |

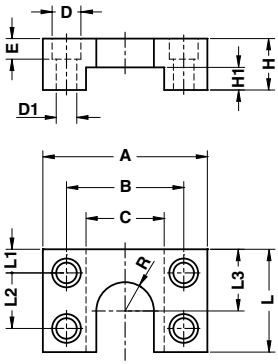
* Surface with solid lubricant / Oberfläche mit Festschmierstoff / Superficie con inserti autolubrificanti

** Sliding Surface / Geitfläche / Superficie di Scorrimento

| OMCR CODE | A | B | C | D | E | F | G | H | H1 | L | L1 | L2 | FORM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C18.25.030070 | 30 | 70 | 10 | 11 | - | - | 10 | 17 | 12 | 50 | 30 | 40 | A |
| C18.25.030090 | 30 | 90 | 10 | 11 | - | - | 10 | 17 | 12 | 70 | 50 | 60 | A |
| C18.25.045070 | 45 | 70 | 10 | 11 | 22 | 11,5 | 10 | 25 | 15 | 50 | 30 | 40 | B |
| C18.25.045090 | 45 | 90 | 10 | 11 | 22 | 11,5 | 10 | 25 | 15 | 70 | 50 | 60 | B |
| C18.25.060120 | 60 | 120 | 20 | 13 | 30 | 15 | 20 | 35 | 25 | 80 | 40 | 60 | B |
| C18.25.060140 | 60 | 140 | 20 | 13 | 30 | 15 | 20 | 35 | 25 | 100 | 60 | 80 | B |
| C18.25.060160 | 60 | 160 | 20 | 13 | 30 | 15 | 20 | 35 | 25 | 120 | 80 | 100 | B |

## COUPLING PLATE – BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE








STOCK

3D WEB

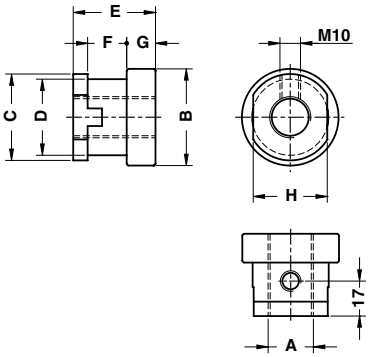
**Notes**

**Material:** CK45

| ORDER EXAMPLE | Art. | A=80 | R=14 |
|---|---|---|---|
| | C18.30. | 080 | 14 |

| OMCR CODE | A | B | C | D | D1 | E | H | H1 | L | L1 | L2 | L3 | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C18.30.08014 | 080 | 57 | 38 | 18 | 11 | 10 | 25 | 11 | 50 | 11,5 | 27 | 30 | 14 |
| C18.30.10020 | 100 | 75 | 50 | 20 | 13 | 12 | 32 | 15 | 55 | 12,5 | 30 | 35 | 20 |
| C18.30.12025 | 120 | 88 | 60 | 26 | 17 | 16 | 40 | 20 | 65 | 16 | 33 | 45 | 25 |
| C18.30.15033 | 150 | 114 | 80 | 33 | 22 | 26 | 45 | 20 | 100 | 18 | 64 | 64 | 33 |

## COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIO STAFFA






STOCK 3D WEB

**Notes**

**Material:** CK45

| ORDER EXAMPLE | Art. | D=47 | A=M27 |
|---|---|---|---|
| | C18.31. | 47 | M27 |

| OMCR CODE | A | B | C | D | E | F | G | H | Air cyl. (I.S.O.) bore size | Using with coupling plate |
|---|---|---|---|---|---|---|---|---|---|---|
| **C18.31.25M10** | M10x1,25 | 35 | 30 | 25 | 30 | 16 | 10 | 24 | 32 | C18.30.08014 |
| **C18.31.25M12** | M12x1,25 | 35 | 30 | 25 | 30 | 16 | 10 | 24 | 40 | C18.30.08014 |
| **C18.31.37M16** | M16x1,5 | 47 | 42 | 37 | 40 | 19 | 14 | 36 | 50, 63 | C18.30.10020 |
| **C18.31.37M20** | M20x1,5 | 47 | 42 | 37 | 40 | 19 | 14 | 36 | 80, 100 | C18.30.10020 |
| **C18.31.37M27** | M27x2 | 47 | 42 | 37 | 40 | 19 | 14 | 36 | 125 | C18.30.10020 |
| **C18.31.47M27** | M27x2 | 57 | 52 | 47 | 50 | 24 | 19 | 46 | 125 | C18.30.12025 |
| **C18.31.47M36** | M36x2 | 57 | 52 | 47 | 50 | 24 | 19 | 46 | 160, 200 | C18.30.12025 |
| **C18.31.59M42** | M42x2 | 76 | 64 | 59 | 76 | 50 | 19 | 60 | 250 | C18.30.15033 |


QUADRA





# Die Components
# Normalien
# Componenti

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

| B2 2101 016 | B2 2305 016 | B2 2305 017 | B2 2305 022 | B2 2305 022 |
|---|---|---|---|---|
|  |  |  |  |  |
| Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di sollevamento | Gage<br>Einweiser<br>Riferimento | Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore |
| 146 | 146 | 147 | 147 | 148 |

| B2 2305 024 | B2 2305 024 | B2 2506 012 | B2 2604 012 | B2 2615 002 |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore | Hook for chute<br>Haken<br>Gancio | Air pin<br>Druckbolzen<br>Candela | Air pin<br>Druckbolzen<br>Candela |
| 148 | 149 | 149 | 150 | 151 |

| B2 2625 011 | B2 2625 011 | B2 2705 011 | B2 2705 011 | B2 2705 011 |
|---|---|---|---|---|
|  |  |  |  |  |
| Retainer<br>Sicherungsplatte<br>Piastrina | Retainer<br>Sicherungsplatte<br>Piastrina | Stop block<br>Abstandsblock<br>Distanziale | Stop block<br>Abstandsblock<br>Distanziale | Shim<br>Ausgleichscheib<br>Spessore |
| 152 | 152 | 153 | 153 | 153 |

| B2 2708 011 | B2 2709 011 | B2 2709 020 | B2 2715 011 | B2 2715 011 |
|---|---|---|---|---|
|  |  |  |  |  |
| Spacer<br>Distanzstück<br>Distanziale | Backing plate<br>Distanzkappe<br>Reazione per cilindro | Backing plate<br>Distanzkappe<br>Reazione per cilindro | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Shim<br>Ausgleichscheib<br>Spessore |
| 154 | 155 | 155 | 156 | 156 |

| B2 2715 014 | B2 2715 014 | B2 2717 012a -013a | B2 2904 009 | B2 2904 011 |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating cone<br>Kegeldistanz<br>Cono di centraggio | Shim<br>Ausgleichscheib<br>Spessore | Spacer plate toothed<br>Distanzplatte gezahnt<br>Tassello di compensazione | Retainer<br>Sicherungsplatte<br>Piastrina | Retaining bolt<br>Sicherungsbolzen<br>Perno di bloccaggio |
| 157 | 157 | 158 | 158 | 159 |

| B2 2920 001 | B2 2920 001 | B2 2920 001 | B2 2920 001 | B2 2920 003 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Washer<br>Federscheibe<br>Rondella per colonne |
| 160 | 161 | 162 | 163 | 164 |

| B2 2920 003 | B2 2933 001 | B2 2933 001 | B2 2933 001 | B2 2960 012 |
|---|---|---|---|---|
|  |  |  |  |  |
| Toe clamp<br>Haltestück<br>Ritegno per boccola | Guide bush DIN 9834<br>Führungsbuchse DIN 9834<br>Boccola DIN 9834 | Guide bush<br>Führungsbuchse<br>Boccola | Guide bush<br>Führungsbuchse<br>Boccola | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 |
| 164 | 165 | 165 | 166 | 167 |

| B2 2960 012 | B2 2960 012 | B2 2960 012 | B2 2969 011 | B2 2975 011 |
|---|---|---|---|---|
|  |  |  |  |  |
| Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Gib VDI 3387<br>Führungslasche VDI 3387<br>Guida VDI 3387 | Guide bar VDI 3357<br>Führungsleiste VDI 3357<br>Lardone VDI 3357 |
| 168 | 169 | 170 | 171 | 171 |

| B2 2978 021 | B2 2978 021 | B2 2978 021 | B2 2978 21 | B2 2978 023 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver VDI 3357<br>Prismenführung<br>VDI 3357<br>Guida a "V" VDI 3357 | "V" driver VDI 3357<br>Prismenführung<br>VDI 3357<br>Guida a "V" VDI 3357 | "V" driver VDI 3357<br>Prismenführung<br>VDI 3357<br>Guida a "V" VDI 3357 | "V" driver VDI 3357<br>Prismenführung<br>VDI 3357<br>Guida a "V" VDI 3357 | Distance plate for "V" driver<br>Höhenausgleich für<br>Prismenfuhrung<br>Distanziale per guida a "V" |
| 172 | 172 | 173 | 173 | 174 |

| B2 3001 021 | B2 3001 021 | B2 3001 021 | B2 3001 021 | B2 3001 021 |
|---|---|---|---|---|
|  |  |  |  |  |
| Slide stop block<br>Schieberranschlag<br>Arresto slitta | Slide stop block<br>Schieberranschlag<br>Arresto slitta | Anti-rebound elastomer<br>Dämpfungselement<br>Ammortizzatore<br>antirimbalzo | Slide stop block<br>Schieberranschlag<br>Arresto slitta | Anti-rebound elastomer<br>Dämpfungselement<br>Ammortizzatore<br>antirimbalzo |
| 174 | 175 | 175 | 176 | 176 |

| B2 3302 021 | B2 3302 021 | B2 3602 003 | B2 3602 003 | B2 3765 001 |
|---|---|---|---|---|
|  |  |  |  |  |
| Coupling plate<br>Befestigungsplatte<br>Staffa di reazione | Coupling nut<br>Kupplungsmutter<br>Aggancio staffa | Shim<br>Prägestempel<br>Spessore | Visual locator setting punch<br>Stempel f.<br>entgasungsnoppen<br>Punzone di visualizzazione | Key<br>Passfeder<br>Chiavetta |
| 177 | 177 | 178 | 178 | 179 |

| B2 3925 011 | B2 4010 001 | B2 4068 001 | B2 4068 002 | B2 4069 001 |
|---|---|---|---|---|
|  |  |  |  |  |
| Elastomer spring pin<br>Aufnahmebolzen<br>Perno per molle | Backing plate<br>Distanzkappe<br>Reazione per cilindro | Locating pin<br>Zentrierbolzen<br>Centraggio | Locating pin<br>Zentrierbolzen<br>Centraggio | Key<br>Passfeder<br>Chiavetta |
| 179 | 180 | 180 | 181 | 181 |

| B2 5601 011 | B2 5602 011 | B2 5602 012 | B2 5605 011 | B2 5605 011a |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento | Lifting bracket with rope stop safety<br>Tragzapfen mit Seilsicherung<br>Staffa di sollevamento con sicurezza fermafune | Lifting pin VDI 3366<br>Tragschraube VDI 3366<br>Perno di sollevamento VDI 3366 | Lifting bracket with pin and locating pins<br>Tragwange mit Tragbolzen und Zentrierbolzen<br>Staffa di sollevamento completa di perno e centraggi | Lifting bracket with pin and keys<br>Tragwange mit Tragbolzen und Passfeder<br>Staffa di sollevamento completa di perno e chiavette |
| 182 | 183 | 184 | 185 | 186 |

| B2 5605 012 | B2 5702 012 | B2 5702 012 | B2 6201 011 | B2 6201 012 |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Washer<br>Scheibe<br>Rondella | Spacer tube<br>Distanzbuchse<br>Tubo distanziale |
| 187 | 188 | 188 | 189 | 189 |

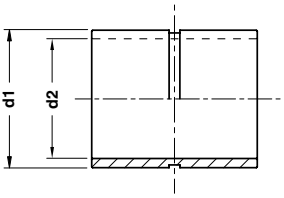
| B2 6202 001 | B2 6202 001 | B2 6202 001 | B2 6204 012 |
|---|---|---|---|
|  |  |  |  |
| Buffer<br>Stossdämpfer<br>Ammortizzatore | Washer<br>Scheibe<br>Rondella | Washer<br>Scheibe<br>Rondella | Shock absorber<br>Halteelement<br>Ammortizzatore |
| 190 | 190 | 190 | 191 |

# B2 2101 016

OMCR

## BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO






**FORM A**



**FORM B**

| Notes |
|---|
| **Material:** St35 |

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 173 600 |

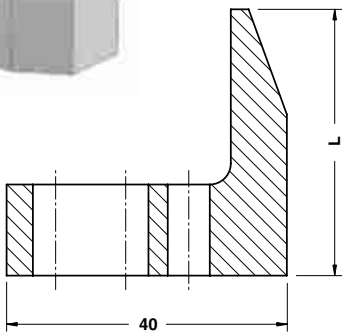
| BMW CODE | d1 | d2 | FORM |
|---|---|---|---|
| 2 173 599 | 44 | 34 | A |
| 2 173 600 | 52 | 42 | A |
| 2 173 601 | 62 | 52 | A |
| 2 173 602 | 75 | 65 | A |
| 2 173 603 | 100 | 78 | B |
| 2 173 604 | 105 | 78 | B |

# B2 2305 016

OMCR

## GAGE - EINWEISER - RIFERIMENTO






| Notes |
|---|
| **Material:** 21MnCr5 - **HRC:** 58÷60 |

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 175 120 |

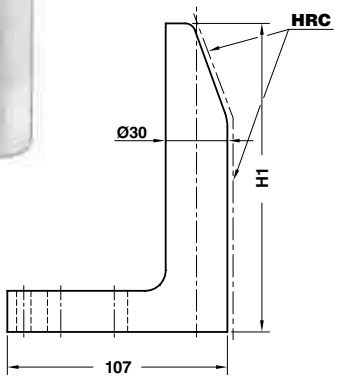
| BMW CODE | L |
|---|---|
| 2 175 119 | 28 |
| 2 175 120 | 38 |
| 2 175 121 | 48 |
| 5 792 350 | 68 |
| 5 792 351 | 88 |

# B2 2305 017

OMCR

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

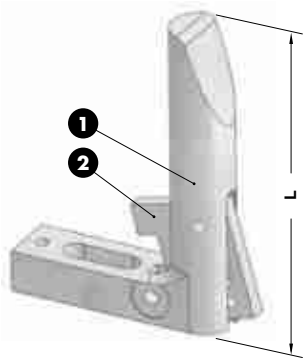
| BMW CODE |
|---|
| 2 173 836 |

| BMW CODE | H1 |
|---|---|
| 2 173 835 | 65 |
| 2 173 836 | 90 |
| 2 173 837 | 120 |
| 2 173 838 | 150 |
| 2 173 839 | 180 |
| 2 175 927 | 210 |
| 2 173 840 | 250 |
| 2 175 127 | 300 |
| 2 175 128 | 350 |

# B2 2305 022

OMCR

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

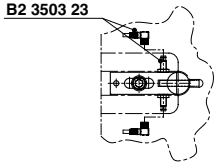



STOCK

**Notes**

1. **Material:** CK60
2. **Material:** St37 - **HRC:** 50÷55

**Application example**




ORDER EXAMPLE

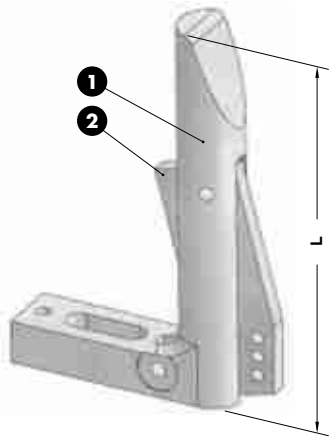
| BMW CODE |
|---|
| 2 173 842 |

| BMW CODE | L | Sensor |
|---|---|---|
| 2 173 841 | 120 | included |
| 2 173 842 | 120 | not included |
| 2 173 843 | 150 | included |
| 2 173 844 | 150 | not included |

# B2 2305 022

OMCR

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE

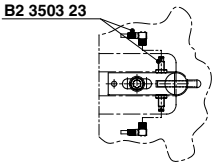



STOCK

**Notes**

1. **Material:** CK60
2. **Material:** St37 - **HRC:** 50÷55

**Application example**



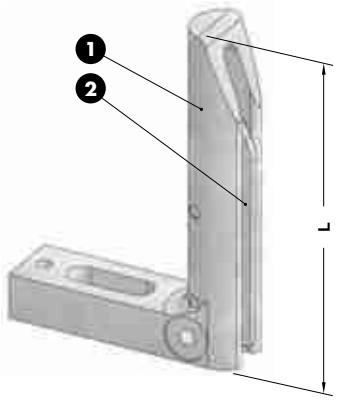

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 173 846 |

| BMW CODE | L | Sensor |
|---|---|---|
| 2 173 845 | 180 | included |
| 2 173 846 | 180 | not included |
| 2 173 847 | 250 | included |
| 2 173 848 | 250 | not included |

# B2 2305 024

OMCR

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE




**Notes**

1. **Material:** CK60
2. **Material:** St37 - **HRC:** 58÷60

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 173 850 |

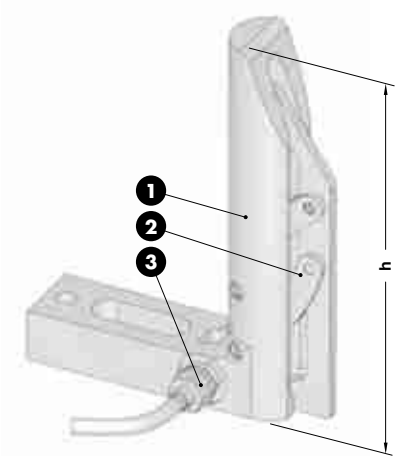
| BMW CODE | L |
|---|---|
| 2 173 849 | 120 |
| 2 173 850 | 150 |
| 2 173 851 | 180 |
| 2 173 852 | 250 |
| 2 173 853* | 250 |

* With short plate
Mit Kurzschild
Con piastra corta

## B2 2305 024

OMCR

### GAGE WITH SENSOR- EINWEISER MIT TEILLAGEKONTROLLE - RIFERIMENTO CON SENSORE

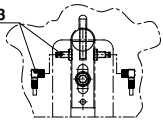



**Notes**

1. **Material:** CK60 - **HRC:** 58÷60
2. **Material:** 16MnCr5 - **HRC:** 58÷60
3. Proximity sensor with cable coupling

**Application example**

B2 3503 23



| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 175 999 |

| BMW CODE | h |
|---|---|
| 2 175 998 | 120 |
| 2 175 999 | 150 |
| 2 176 000 | 180 |
| 2 176 001 | 250 |

## B2 2506 012

OMCR

### HOOK FOR CHUTE - HAKEN - GANCIO



**Notes**

**Material:** St37

STOCK

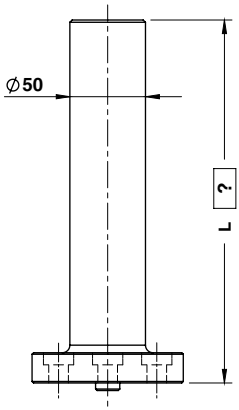
| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 168 287 |

| BMW CODE |
|---|
| 2 168 287 |

## AIR PIN - DRUCKBOLZEN - CANDELA



FORM A






FORM B



FORM C

85 < L ≤ 500 mm

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

10

| ORDER EXAMPLE | BMW CODE | L=355 |
|---|---|---|
| | 6 293 157 | 355 |

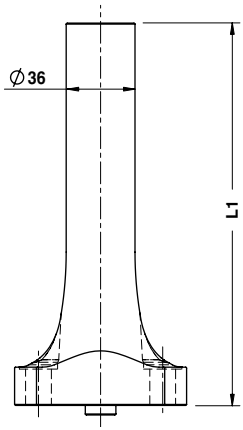
| BMW CODE | FORM |
|---|---|
| 6 293 156 | A |
| 6 293 157 | B |
| 6 293 158 | C |

# B2 2615 002

OMCR

## AIR PIN - DRUCKBOLZEN - CANDELA






**Notes**

**Material:** 42CrMo4
800÷1000 N/mm²

10

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 175 218 |

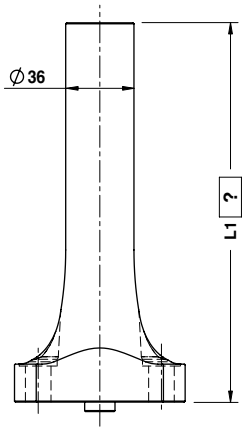
| BMW CODE | L1 |
|---|---|
| 2 175 217 | 150 |
| 2 175 218 | 175 |
| 2 175 219 | 200 |
| 2 175 220 | 225 |
| 2 175 221 | 250 |

B2 2615 002

OMCR

AIR PIN - DRUCKBOLZEN - CANDELA






⚠

L max = 250 mm

**Notes**

**Material:** 42CrMo4
800÷1000 N/mm²

10

| ORDER EXAMPLE | BMW CODE | L1=185 |
|---|---|---|
| | 2 175 222 | 185 |

| BMW CODE |
|---|
| 2 175 222 |

## B2 2625 011

OMCR

### RETAINER - SICHERUNGSPLATTE - PIASTRINA

| Notes |
| --- |
| **Material:** St37 |

STOCK



| ORDER EXAMPLE | BMW CODE |
| --- | --- |
| | 2 171 716 |

| BMW CODE |
| --- |
| 2 171 716 |


## B2 2625 011

OMCR

### RETAINER - SICHERUNGSPLATTE - PIASTRINA


| Notes |
| --- |
| **Material:** 90MnCrV8 - **HRC:** 60÷62 |

STOCK



| ORDER EXAMPLE | BMW CODE |
| --- | --- |
| | 2 172 935 |

| BMW CODE |
| --- |
| 2 172 935 |

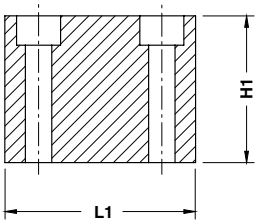
## B2 2705 011

OMCR

### STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE



STOCK




**Notes**

**Material:** St37

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 175 075 |

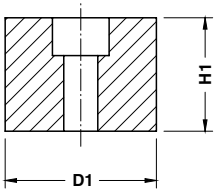
| BMW CODE | L1 | H1 |
|---|---|---|
| 2 175 074 | 65 | 30 |
| 2 175 075 | 65 | 50 |
| 2 175 076 | 100 | 30 |
| 2 175 077 | 100 | 50 |
| 2 175 375 | 80 | 30 |
| 2 175 376 | 100 | 30 |

## B2 2705 011

OMCR

### STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

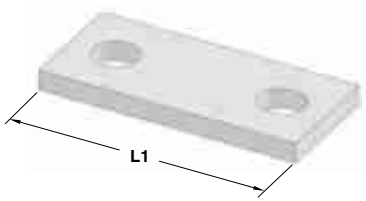
| BMW CODE |
|---|
| 2 175 079 |

| BMW CODE | D1 | H1 |
|---|---|---|
| 2 175 078 | 40 | 30 |
| 2 175 079 | 40 | 50 |

## B2 2705 011

OMCR

### SHIM - ABSTIMMSCHEIBE - SPESSORE




**Notes**

**Material:** St52

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 6554390 |

| BMW CODE | L1 |
|---|---|
| 6554389 | 65 |
| 6554390 | 100 |

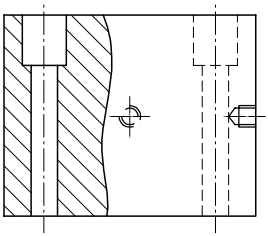
## SPACER - DISTANZSTÜCK - DISTANZIALE

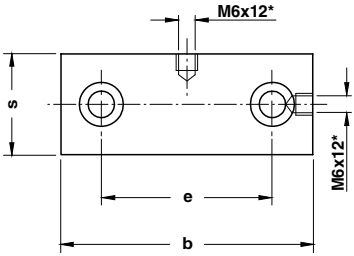
**Notes**

**Material:** St37

STOCK








| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 172 065 |

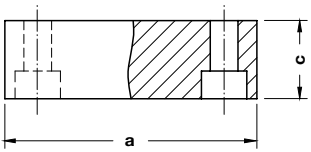
| BMW CODE | b | e | s | Max load (kN) | BMW CODE *(without thread M6) | b | e | s | Max load (kN) |
|---|---|---|---|---|---|---|---|---|---|
| **2 172 064** | 65 | 35 | 30 | 270 | **2 173 866** | 65 | 35 | 30 | 270 |
| **2 172 065** | 100 | 68 | 40 | 700 | **2 173 867** | 100 | 68 | 40 | 700 |
| **2 168 316** | 160 | 98 | 40 | 1100 | **2 173 868** | 160 | 98 | 40 | 1100 |
| **2 172 066** | 110 | 78 | 50 | 1000 | **2 173 869** | 110 | 78 | 50 | 1000 |
| **2 168 317** | 180 | 114 | 50 | 1600 | **2 173 870** | 180 | 114 | 50 | 1600 |
| **2 172 067** | 130 | 90 | 60 | 1500 | **2 173 871** | 130 | 90 | 60 | 1500 |
| **2 175 145** | 130 | 90 | 60 | 1500 | **2 175 146** | 130 | 90 | 60 | 1500 |
| **2 168 318** | 200 | 130 | 60 | 2300 | **2 173 872** | 200 | 130 | 60 | 2300 |
| **2 174 518** | 200 | 125 | 60 | 2300 | **2 174 519** | 200 | 125 | 60 | 2300 |
| **2 168 319** | 160 | 115 | 80 | 2350 | **2 173 873** | 160 | 115 | 80 | 2350 |
| **2 175 003** | 160 | 115 | 80 | 2350 | **2 175 004** | 160 | 115 | 80 | 2350 |
| **2 168 320** | 250 | 160 | 80 | 3650 | **2 173 874** | 250 | 160 | 80 | 3650 |
| **2 174 520** | 250 | 155 | 80 | 3650 | **2 174 521** | 250 | 155 | 80 | 3650 |

# B2 2709 011

OMCR

## BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO






**Notes**

**Material:** 90MnCrV8 - **HRC:** 49÷52

STOCK

ORDER EXAMPLE

**BMW CODE**
**2 171 494**

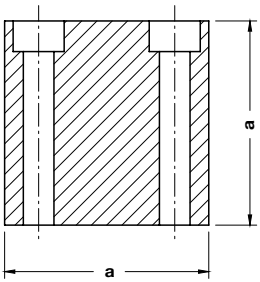
| BMW CODE | a | c |
|---|---|---|
| **2 171 493** | 60 | 48 |
| **2 171 494** | 60 | 43 |
| **2 171 495** | 70 | 39 |
| **2 171 496** | 100 | 36 |
| **2 171 497** | 100 | 31 |
| **2 172 219** | 60 | 30 |
| **2 172 220** | 60 | 25 |
| **2 172 221** | 70 | 20 |
| **2 172 222** | 100 | 20 |
| **2 172 223** | 100 | 15 |

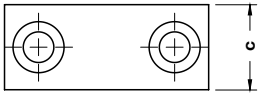
# B2 2709 020

OMCR

## BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO






**Notes**

**Material:** 90MnCrV8 - **HRC:** 49÷52

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

**BMW CODE**
**2 173 596**

| BMW CODE | Nom. load (daN) | a | c |
|---|---|---|---|
| **2 173 596** | 750÷1500 | 60 | 25 |
| **2 173 597** | 3000 | 70 | 25 |
| **2 173 598** | 5000÷7500 | 100 | 30 |

# B2 2715 011

OMCR

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO




FORM A




FORM B

**Notes**

1 2
**Material:** 16MnCr5 - **HRC:** 60÷62

3 **Material:** CK45

STOCK ... 

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 171 883 |

| BMW CODE | d1 | FORM |
|---|---|---|
| 2 171 882 | 100 | A |
| 2 171 883 | 100 | B |
| 2 171 884 | 120 | A |
| 2 171 885 | 120 | B |

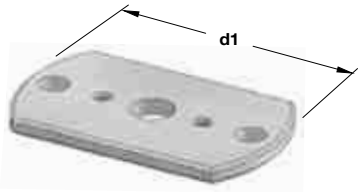
# B2 2715 011

OMCR

## SHIM - ABSTIMMSCHEIBE - SPESSORE



FORM A




FORM B

**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 171 887 |

| BMW CODE | d1 | FORM |
|---|---|---|
| 2 171 886 | 100 | A |
| 2 171 887 | 100 | B |
| 2 171 888 | 120 | A |
| 2 171 889 | 120 | B |

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO




FORM A




FORM B

**Notes**

1 2
**Material:** 16MnCr5 - **HRC:** 60÷62

3 **Material:** CK45

STOCK ... 



| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 173 124 |

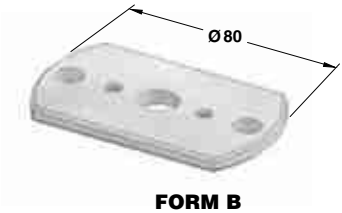
| BMW CODE | FORM |
|---|---|
| 2 173 123 | A |
| 2 173 124 | B |

B2 2715 014 OMCR

## SHIM - ABSTIMMSCHEIBE - SPESSORE



FORM A




FORM B

**Notes**

**Material:** CK45

STOCK

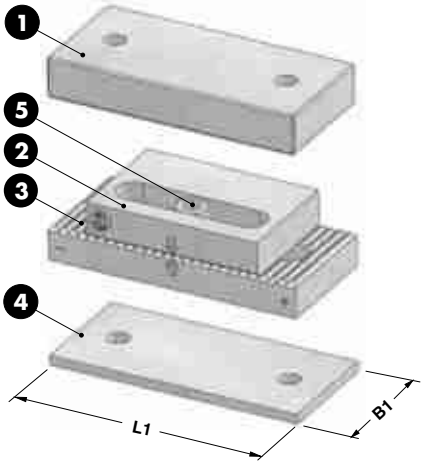
| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 173 126 |

| BMW CODE | FORM |
|---|---|
| 2 173 125 | A |
| 2 173 126 | B |

# B2 2717 012a-013a

OMCR

## SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE




**Notes**

1 2 3 **Material:** 90MnCrV8 - **HRC**: 58÷60

4 **Material:** St52

5 DIN 912

STOCK ...

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 171 715 |

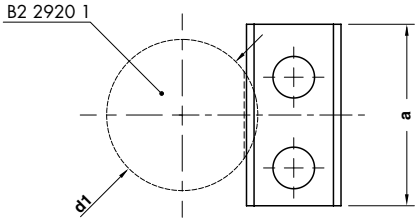
| BMW CODE | B1 | L1 | * |
|---|---|---|---|
| 2 171 714 | 60 | 130 | 12a |
| 2 171 715 | 80 | 160 | 13a |

# B2 2904 009

OMCR

## RETAINER - SICHERUNGSPLATTE - PIASTRINA






**Notes**

**Material:** St37

STOCK

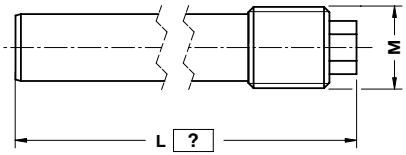
ORDER EXAMPLE

| BMW CODE |
|---|
| 2 174 517 |

| BMW CODE | a | d1 |
|---|---|---|
| 2 174 516 | 40 | 25÷32 |
| 2 174 517 | 48 | 40÷50 |

## RETAINING BOLT - SICHERUNGSBOLZEN - PERNO DI BLOCCAGGIO






| Notes |
|---|
| **Material:** CK45 |

10

| ORDER EXAMPLE | BMW CODE | L=240 |
|---|---|---|
| | 2 174 247 | 240 |

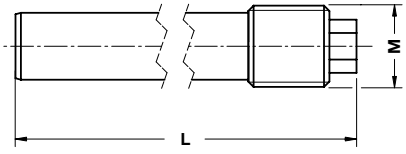
| BMW CODE | L | M |
|---|---|---|
| 2 174 247 | ≤ 300 | M 30 |



B2 2904 011

## RETAINING BOLT - SICHERUNGSBOLZEN - PERNO DI BLOCCAGGIO






| Notes |
|---|
| **Material:** CK45 |

STOCK

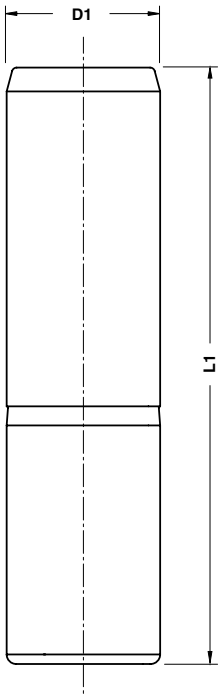
| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 174 246 |

| BMW CODE | L | M |
|---|---|---|
| 2 174 780 | 180 | M 30 |
| 2 174 246 | 230 | M 30 |
| 2 175 009 | 200 | M 20 |

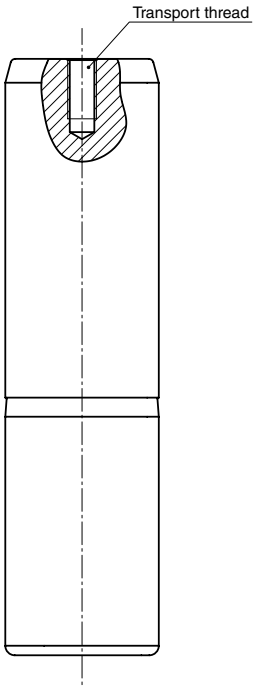
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

| Notes |
|---|
| **Material:** 16MnCr5 - **HRC** 60÷62 |






**FORM A**




**FORM B**

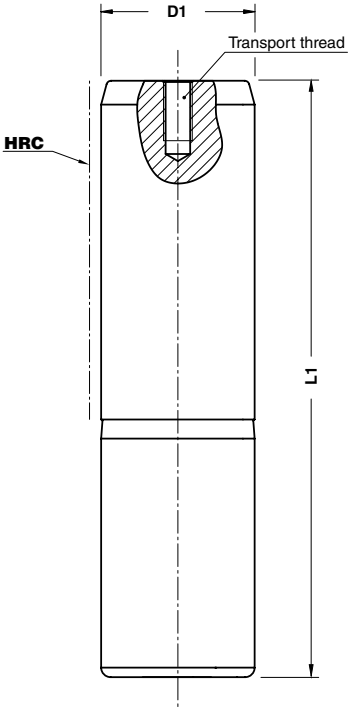
| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 168 678 |

| BMW CODE | D1 | L1 | FORM | BMW CODE | D1 | L1 | FORM |
|---|---|---|---|---|---|---|---|
| **2 168 677** | 63 | 200 | A | **2 168 682** | 80 | 250 | B |
| **2 168 678** | 63 | 250 | A | **2 168 684** | 80 | 280 | B |
| **2 175 085** | 63 | 280 | A | **2 168 686** | 80 | 315 | B |
| **2 168 679** | 63 | 315 | A | **2 168 688** | 80 | 355 | B |
| **2 168 680** | 63 | 355 | A | | | | |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

| Notes |
|---|
| **Material:** 16MnCr5 - **HRC** 60÷62 |






| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 175 006 |

| BMW CODE | D1 | L1 | BMW CODE | D1 | L1 |
|---|---|---|---|---|---|
| **2 175 005** | 80 | 250 | **2 171 214** | 100 | 355 |
| **2 175 006** | 80 | 280 | **2 171 216** | 100 | 400 |
| **2 175 007** | 80 | 315 | **2 171 218** | 125 | 355 |
| **2 175 008** | 80 | 355 | **2 172 239** | 125 | 400 |
| **2 174 777** | 100 | 280 | **2 171 220** | 125 | 450 |
| **2 174 778** | 100 | 315 | | | |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

**Notes**

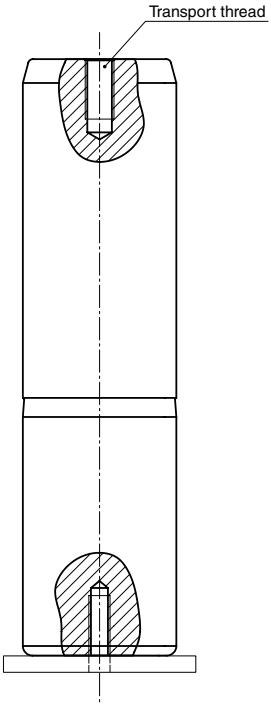
**Material:** 16MnCr5 - **HRC** 60÷62

10






FORM A




FORM B

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 173 907 |

| BMW CODE | D1 | L1 | FORM | Washer Code |
|---|---|---|---|---|
| **2 173 906** | 40 | 160 | A | 2173912 |
| **2 173 907** | 40 | 180 | A | 2173912 |
| **2 173 908** | 40 | 200 | A | 2173912 |
| **2 173 909** | 40 | 224 | A | 2173912 |
| **2 173 910** | 40 | 250 | A | 2173912 |
| **2 173 911** | 40 | 280 | A | 2173912 |
| **2 173 913** | 50 | 160 | A | 2173919 |

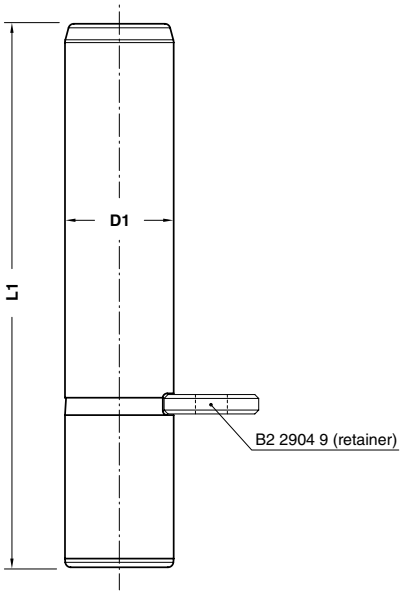
| BMW CODE | D1 | L1 | FORM | Washer Code |
|---|---|---|---|---|
| **2 173 914** | 50 | 200 | A | 2173919 |
| **2 173 915** | 50 | 250 | A | 2173919 |
| **2 173 916** | 50 | 280 | A | 2173919 |
| **2 173 917** | 50 | 315 | A | 2173919 |
| **2 173 918** | 50 | 355 | A | 2173919 |
| **2 173 920** | 63 | 200 | A | 2173925 |
| **2 173 921** | 63 | 250 | A | 2173925 |

| BMW CODE | D1 | L1 | FORM | Washer Code |
|---|---|---|---|---|
| **2 175 086** | 63 | 280 | A | 2173925 |
| **2 173 922** | 63 | 315 | A | 2173925 |
| **2 173 923** | 63 | 355 | A | 2173925 |
| **2 173 926** | 80 | 250 | B | 2 173 930 |
| **2 173 927** | 80 | 280 | B | 2 173 930 |
| **2 173 928** | 80 | 315 | B | 2 173 930 |
| **2 173 929** | 80 | 355 | B | 2 173 930 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

| Notes |
|---|
| **Material:** 16MnCr5 - **HRC** 60÷62 |






| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 174 493 |

| BMW CODE | D1 | L1 | Retainer Code | BMW CODE | D1 | L1 | Retainer Code | BMW CODE | D1 | L1 | Retainer Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2 174 492** | 25 | 125 | 2 174 516 | **2 174 499** | 40 | 160 | 2 174 517 | **2 174 506** | 50 | 200 | 2 174 517 |
| **2 174 493** | 25 | 140 | 2 174 516 | **2 174 500** | 40 | 180 | 2 174 517 | **2 174 507** | 50 | 250 | 2 174 517 |
| **2 174 494** | 25 | 160 | 2 174 516 | **2 174 501** | 40 | 200 | 2 174 517 | **2 174 508** | 50 | 280 | 2 174 517 |
| **2 174 495** | 25 | 180 | 2 174 516 | **2 174 502** | 40 | 224 | 2 174 517 | **2 174 509** | 50 | 315 | 2 174 517 |
| **2 174 496** | 25 | 200 | 2 174 516 | **2 174 503** | 40 | 250 | 2 174 517 | **2 174 510** | 50 | 355 | 2 174 517 |
| **2 174 497** | 32 | 160 | 2 174 516 | **2 174 504** | 40 | 280 | 2 174 517 | | | | |
| **2 174 498** | 32 | 200 | 2 174 516 | **2 174 505** | 50 | 160 | 2 174 517 | | | | |

## B2 2920 003

OMCR

### WASHER - FEDERSCHEIBE - RONDELLA PER COLONNE

**Notes**

**Material:** CK45

STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 173 919 |

| BMW CODE | D1 |
|---|---|
| 2 173 912 | 60 |
| 2 173 919 | 70 |
| 2 173 925 | 83 |
| 2 173 930 | 100 |

## B2 2920 003

OMCR

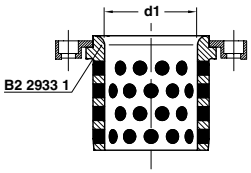
### TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA

STOCK

**Notes**

**Material:** CK45

**Application example**





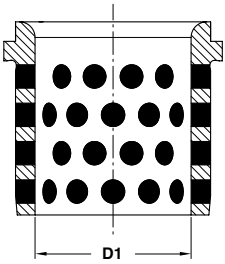

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 842 |

| BMW CODE | d1 |
|---|---|
| 2 168 834 | 25÷50 |
| 2 168 842 | 63÷160 |
| 2 172 560 | 16 |
| 2 172 561 | 20 |

## GUIDE BUSH DIN 9834 - FÜHRUNGSBUCHSE DIN 9834 - BOCCOLA DIN 9834






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 700 |

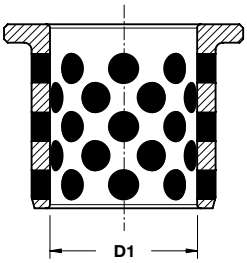
| BMW CODE | D1 |
|---|---|
| 2 168 699 | 25 |
| 2 168 700 | 32 |
| 2 168 701 | 40 |
| 2 168 702 | 50 |
| 2 168 703 | 63 |
| 2 168 704 | 80 |
| 2 168 705 | 100 |
| 2 168 706 | 125 |
| 2 168 707 | 160 |



B2 2933 001

## GUIDE BUSH - FÜHRUNGSBUCHSE - BOCCOLA






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

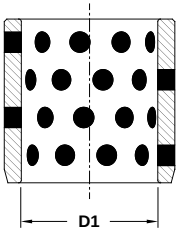
ORDER EXAMPLE

| BMW CODE |
|---|
| 2 172 557 |

| BMW CODE | D1 |
|---|---|
| 2 172 556 | 16 |
| 2 172 557 | 20 |

## GUIDE BUSH - FÜHRUNGSBUCHSE - BOCCOLA






| Notes |
|---|
| **Material:** Bronze + Graphite<br>**HB** > 190 |

STOCK

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 172 559 |

| BMW CODE | D1 |
|---|---|
| 2 172 558 | 16 |
| 2 172 559 | 20 |

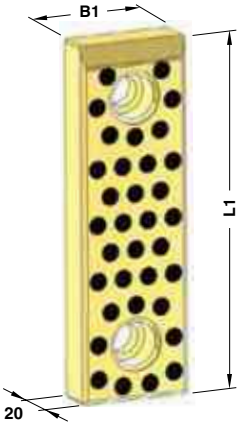
# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK






FORM A



FORM B



FORM C

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 338 |

| BMW CODE | B1 | L1 | FORM | BMW CODE | B1 | L1 | FORM |
|---|---|---|---|---|---|---|---|
| 2 168 337 | 50 | 80 | A | 2 168 352 | 100 | 160 | B |
| 2 168 338 | 50 | 100 | A | 2 168 353 | 100 | 200 | B |
| 2 168 339 | 50 | 125 | A | 2 168 354 | 125 | 50 | B |
| 2 168 340 | 50 | 160 | A | 2 168 355 | 125 | 80 | B |
| 2 168 341 | 50 | 200 | A | 2 168 356 | 125 | 100 | C |
| 2 168 342 | 80 | 50 | B | 2 168 357 | 125 | 125 | C |
| 2 168 343 | 80 | 80 | A | 2 168 358 | 125 | 160 | C |
| 2 168 344 | 80 | 100 | A | 2 168 359 | 125 | 200 | C |
| 2 168 345 | 80 | 125 | A | 2 168 360 | 160 | 50 | B |
| 2 168 346 | 80 | 160 | A | 2 168 361 | 160 | 80 | B |
| 2 168 347 | 80 | 200 | A | 2 168 362 | 160 | 100 | C |
| 2 168 348 | 100 | 50 | B | 2 168 363 | 160 | 125 | C |
| 2 168 349 | 100 | 80 | B | 2 168 364 | 160 | 160 | C |
| 2 168 350 | 100 | 100 | A | 2 168 365 | 160 | 200 | C |
| 2 168 351 | 100 | 125 | A | | | | |



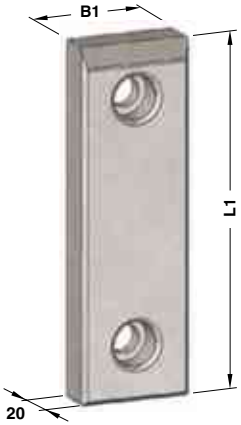
INDEX

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357

**Notes**

**Material:** X153CrMoV12 - **HRC** 58÷60

STOCK




FORM A



FORM B



FORM C

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 367 |

| BMW CODE | B1 | L1 | FORM | BMW CODE | B1 | L1 | FORM |
|---|---|---|---|---|---|---|---|
| **2 168 366** | 50 | 80 | A | **2 168 381** | 100 | 160 | B |
| **2 168 367** | 50 | 100 | A | **2 168 382** | 100 | 200 | B |
| **2 168 368** | 50 | 125 | A | **2 168 383** | 125 | 50 | B |
| **2 168 369** | 50 | 160 | A | **2 168 384** | 125 | 80 | B |
| **2 168 370** | 50 | 200 | A | **2 168 385** | 125 | 100 | C |
| **2 168 371** | 80 | 50 | B | **2 168 386** | 125 | 125 | C |
| **2 168 372** | 80 | 80 | A | **2 168 387** | 125 | 160 | C |
| **2 168 373** | 80 | 100 | A | **2 168 388** | 125 | 200 | C |
| **2 168 374** | 80 | 125 | A | **2 168 389** | 160 | 50 | B |
| **2 168 375** | 80 | 160 | A | **2 168 390** | 160 | 80 | B |
| **2 168 376** | 80 | 200 | A | **2 168 391** | 160 | 100 | C |
| **2 168 377** | 100 | 50 | B | **2 168 392** | 160 | 125 | C |
| **2 168 378** | 100 | 80 | B | **2 168 393** | 160 | 160 | C |
| **2 168 379** | 100 | 100 | A | **2 168 394** | 160 | 200 | C |
| **2 168 380** | 100 | 125 | A | | | | |

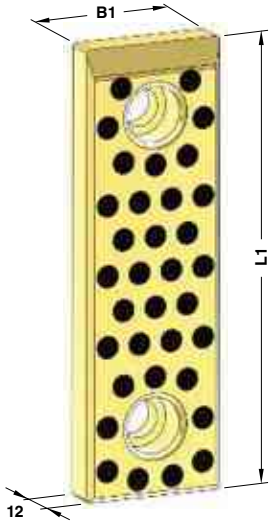
# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

**Notes**

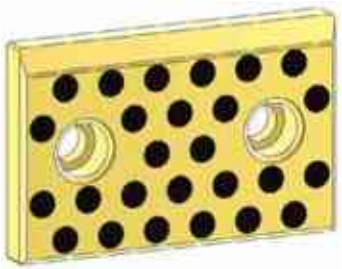
**Material:** Bronze + Graphite
**HB** > 190

STOCK






**FORM A**



**FORM B**

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 169 172 |

| BMW CODE | B1 | L1 | FORM | BMW CODE | B1 | L1 | FORM |
|---|---|---|---|---|---|---|---|
| **2 169 171** | 30 | 80 | A | **2 169 184** | 50 | 160 | A |
| **2 169 172** | 30 | 100 | A | **2 169 185** | 50 | 200 | A |
| **2 169 173** | 30 | 125 | A | **2 169 186** | 60 | 80 | A |
| **2 169 174** | 30 | 160 | A | **2 169 187** | 60 | 100 | A |
| **2 169 175** | 30 | 200 | A | **2 169 188** | 60 | 125 | A |
| **2 169 176** | 40 | 80 | A | **2 169 189** | 60 | 160 | A |
| **2 169 177** | 40 | 100 | A | **2 169 190** | 60 | 200 | A |
| **2 169 178** | 40 | 125 | A | **2 169 191** | 80 | 80 | A |
| **2 169 179** | 40 | 160 | A | **2 169 192** | 80 | 100 | A |
| **2 169 180** | 40 | 200 | A | **2 169 193** | 80 | 125 | A |
| **2 169 181** | 50 | 80 | A | **2 169 194** | 80 | 160 | A |
| **2 169 182** | 50 | 100 | A | **2 169 195** | 80 | 200 | A |
| **2 169 183** | 50 | 125 | A | **3 007 727** | 80 | 50 | B |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357

**Notes**

**Material:** 16MnCr5 - **HRC** 58÷60

STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 170 889 |

| BMW CODE | B1 | L1 | BMW CODE | B1 | L1 |
|---|---|---|---|---|---|
| 2 170 888 | 30 | 80 | 2 170 901 | 50 | 160 |
| 2 170 889 | 30 | 100 | 2 170 902 | 50 | 200 |
| 2 170 890 | 30 | 125 | 2 170 903 | 60 | 80 |
| 2 170 891 | 30 | 160 | 2 170 904 | 60 | 100 |
| 2 170 892 | 30 | 200 | 2 170 905 | 60 | 125 |
| 2 170 893 | 40 | 80 | 2 170 906 | 60 | 160 |
| 2 170 894 | 40 | 100 | 2 170 907 | 60 | 200 |
| 2 170 895 | 40 | 125 | 2 170 908 | 80 | 80 |
| 2 170 896 | 40 | 160 | 2 170 909 | 80 | 100 |
| 2 170 897 | 40 | 200 | 2 170 910 | 80 | 125 |
| 2 170 898 | 50 | 80 | 2 170 911 | 80 | 160 |
| 2 170 899 | 50 | 100 | 2 170 912 | 80 | 200 |
| 2 170 900 | 50 | 125 | | | |

# B2 2969 011

OMCR

## GIB VDI 3387 - FÜHRUNGSLASCHE VDI 3387 - GUIDA VDI 3387




FORM A FORM B

**Notes**

**Material:** CK45 + Graphite
**HRC:** 58÷60
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

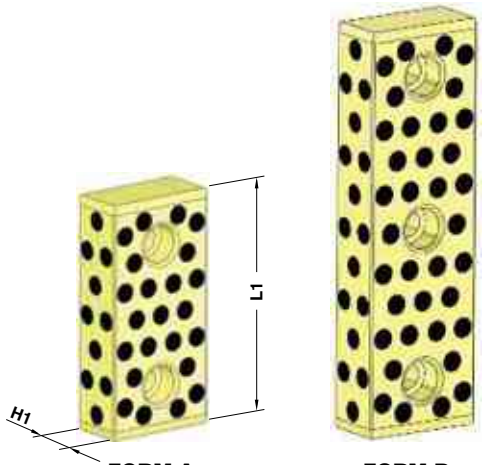
ORDER EXAMPLE — BMW CODE: 2 168 880

| BMW CODE | a | b | L1 | FORM |
|---|---|---|---|---|
| 2 168 879 | 112 | 45 | 250 | A |
| 2 168 880 | 140 | 45 | 315 | B |
| 2 168 881 | 190 | 56 | 400 | B |
| 2 174 248 | 240 | 56 | 500 | B |

# B2 2975 011

OMCR

## GUIDE BAR VDI 3357 - FÜHRUNGSLEISTE VDI 3357 - LARDONE VDI 3357




FORM A FORM B

**Notes**

**Material:** Bronze + Graphite - **HB** >190

STOCK

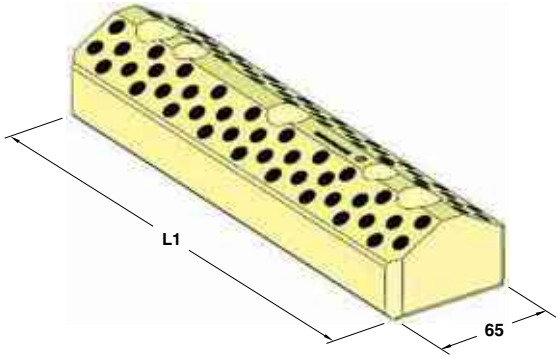
ORDER EXAMPLE — BMW CODE: 2 168 884

| BMW CODE | H1 | L1 | FORM |
|---|---|---|---|
| 2 168 883 | 30 | 125 | A |
| 2 168 884 | 30 | 160 | A |
| 2 168 885 | 30 | 200 | B |
| 2 168 886 | 40 | 125 | A |
| 2 168 887 | 40 | 160 | A |
| 2 168 888 | 40 | 200 | B |

## B2 2978 021

MCR

**“V” DRIVER SELF-LUBRICATING VDI 3357**
**PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**GUIDA A “V” AUTOLUBRIFICANTE VDI 3357**




**Notes**

**Material:** Bronze + Graphite - **HB**>190

STOCK

ORDER EXAMPLE

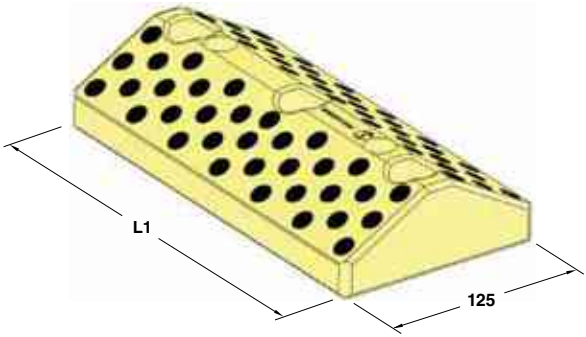
| BMW CODE |
|---|
| 2 168 900 |

| BMW CODE | L1 |
|---|---|
| 2 168 899 | 150 |
| 2 168 900 | 200 |
| 2 168 901 | 250 |
| 2 168 902 | 300 |

## B2 2978 021

MCR

**“V” DRIVER SELF-LUBRICATING VDI 3357**
**PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**GUIDA A “V” AUTOLUBRIFICANTE VDI 3357**




**Notes**

**Material:** Bronze + Graphite - **HB**>190

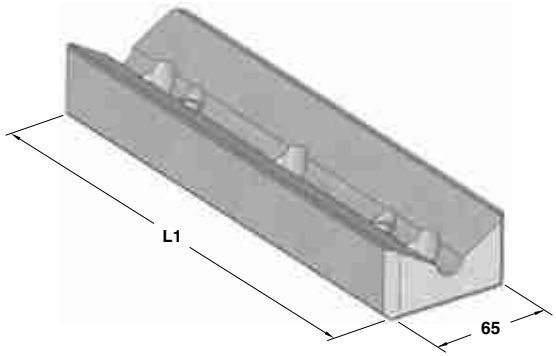
STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 904 |

| BMW CODE | L1 |
|---|---|
| 2 168 903 | 150 |
| 2 168 904 | 200 |
| 2 168 905 | 250 |
| 2 168 906 | 300 |

## "V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357




| Notes |
|---|
| **Material:** CK45 - **HRC:** 58÷60 |

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 919 |

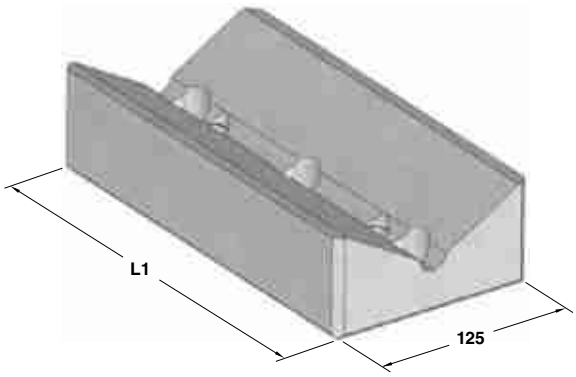
| BMW CODE | L1 |
|---|---|
| 2 168 918 | 150 |
| 2 168 919 | 200 |
| 2 168 920 | 250 |
| 2 168 921 | 300 |



B2 2978 021

OMCR

"V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357




| Notes |
|---|
| **Material:** CK45 - **HRC:** 58÷60 |

STOCK

ORDER EXAMPLE

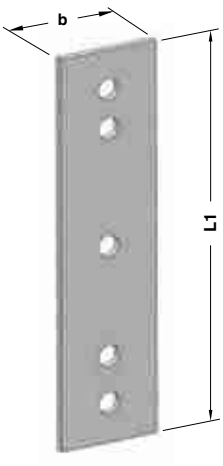
| BMW CODE |
|---|
| 2 168 923 |

| BMW CODE | L1 |
|---|---|
| 2 168 922 | 150 |
| 2 168 923 | 200 |
| 2 168 924 | 250 |
| 2 168 925 | 300 |

## B2 2978 023

OMCR

### DISTANCE PLATE FOR "V" DRIVER
### HÖHENAUSGLEICH FÜR PRISMENFUHRUNG
### DISTANZIALE PER GUIDA A "V"




**Notes**

**Material:** St52

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 172 953 |

| BMW CODE | b | L1 |
|---|---|---|
| 2 172 952 | 65 | 150 |
| 2 172 953 | 65 | 200 |
| 2 172 954 | 65 | 250 |
| 2 172 955 | 65 | 300 |
| 2 172 956 | 125 | 150 |
| 2 172 957 | 125 | 200 |
| 2 172 958 | 125 | 250 |
| 2 172 959 | 125 | 300 |

## B2 3001 021

OMCR

### SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA



**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 175 393 |

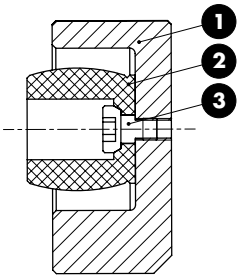
| BMW CODE |
|---|
| 2 175 393 |

## B2 3001 021

OMCR

### SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA






| Notes |
|---|
| 1 **Material:** CK45 |
| 2 **Material:** CO-Polyester Elastomer |
| 3 Screw |

STOCK ...

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 174 768 |

| BMW CODE |
|---|
| 2 174 768 |

## B2 3001 021

OMCR

### ANTI-REBOUND ELASTOMER - DÄMPFUNGSELEMENT - AMMORTIZZATORE ANTIRIMBALZO

| Notes |
|---|
| **Material:** CO-Polyester Elastomer |

STOCK



| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 174 767 |

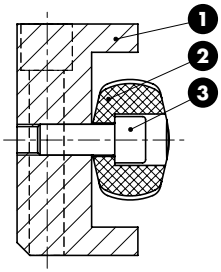
| BMW CODE |
|---|
| 2 174 767 |

## B2 3001 021

OMCR

### SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA






| Notes |
|---|
| 1 **Material:** CK45 |
| 2 **Material:** CO-Polyester Elastomer |
| 3 M10x30 DIN 912 |

STOCK ...

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 174 838 |

| BMW CODE |
|---|
| 2 174 838 |

## B2 3001 021

OMCR

### ANTI-REBOUND ELASTOMER - DÄMPFUNGSELEMENT - AMMORTIZZATORE ANTIRIMBALZO

| Notes |
|---|
| **Material:** CO-Polyester Elastomer |

STOCK

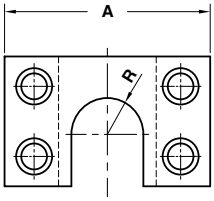


| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 174 837 |

| BMW CODE |
|---|
| 2 174 837 |

## COUPLING PLATE – BEFESTIGUNGSPLATTE - STAFFA DI FISSAGGIO






**Notes**

**Material:** CK45

STOCK



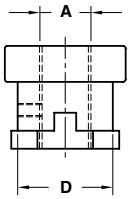
| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 175 052 |

| BMW CODE | A | R |
|---|---|---|
| 2 175 051 | 100 | 20 |
| 2 175 052 | 120 | 25 |

B2 3302 021 OMCR

## COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIO STAFFA






**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 175 054 |

| BMW CODE | A | D |
|---|---|---|
| 2 175 053 | M16x1,5 | 37 |
| 2 175 054 | M20x1,5 | 37 |
| 2 175 055 | M27x2 | 47 |
| 2 175 056 | M36x2 | 47 |

# B2 3602 003

OMCR

## SHIM - PRÄGESTEMPEL - SPESSORE



**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 546 |

| BMW CODE |
|---|
| 2 168 546 |

# B2 3602 003

OMCR

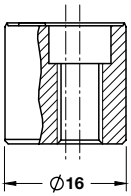
## VISUAL LOCATOR SETTING PUNCH
## STEMPEL F. ENTGASUNGSNOPPEN
## PUNZONE DI VISUALIZZAZIONE

**Notes**

**Material:** X155CrVMo12 - **HRC:** 55÷58

STOCK









ORDER EXAMPLE

| BMW CODE | Option |
|---|---|
| 2 171 527 | U 25 |

| BMW CODE | Option |
|---|---|
| 2 169 003 | 2 digit number |
| 2 171 527 | U + 2 digit number |
| 2 171 528 | A + 2 digit number |
| 2 175 080 | CN |
| 2 171 530 | C |
| 2 169 002 | - |
| 2 171 533 | 2 digit number |

| BMW CODE | Option |
|---|---|
| 2 171 529 | B + 2 digit number |
| 2 171 530 | 2 digit number |
| 2 171 531 | L |
| 2 171 532 | R |
| 2 174 593 | - |
| 2 173 712 | P + number 1 |
| 2 173 713 | P + number 2 |

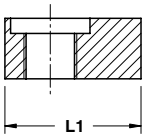
| BMW CODE | Option |
|---|---|
| 2 173 812 | P + number 3 |
| 2 173 813 | P + number 4 |
| 2 173 714 | LP + number 1 |
| 2 173 715 | LP + number 2 |
| 2 173 716 | RP + number 1 |
| 2 173 717 | RP + number 2 |
| | |

## B2 3765 001

OMCR

### KEY - PASSFEDER - CHIAVETTA






**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 175 929 |

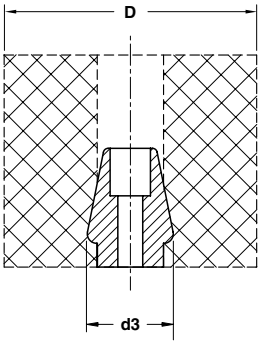
| BMW CODE | L1 |
|---|---|
| 2 175 928 | 16 |
| 2 175 929 | 18 |
| 2 175 930 | 20 |
| 2 175 931 | 22 |
| 2 175 932 | 26 |
| 2 175 933 | 32 |
| 2 175 934 | 35 |
| 2 175 935 | 40 |

## B2 3925 011

OMCR

### ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE






**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 169 345 |

| BMW CODE | D | d3 |
|---|---|---|
| 2 169 344 | 63 | 28 |
| 2 169 345 | 80÷100 | 32 |
| 2 169 346 | 125 | 38 |

## B2 4010 001

OMCR

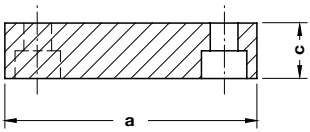
### BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



**Notes**

**Material:** 90MnCrV8 - **HRC:** 50÷52

STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 171 499 |

| BMW CODE | a | c |
|---|---|---|
| 2 171 498 | 40 | 12 |
| 2 171 499 | 60 | 15 |
| 2 171 500 | 70 | 15 |
| 2 171 501 | 100 | 20 |
| 2 175 147 | 110 | 20 |

## B2 4068 001

OMCR

### LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO

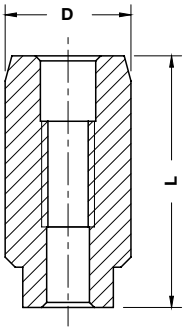


**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 169 053 |

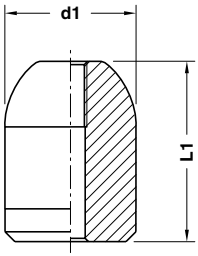
| BMW CODE | D | L |
|---|---|---|
| 0 970 435 | 25 | 50 |
| 2 169 053 | 25 | 65 |
| 0 970 413 | 32 | 50 |
| 2 169 054 | 32 | 65 |
| 0 970 412 | 40 | 50 |
| 2 169 055 | 40 | 65 |
| 0 970 411 | 50 | 50 |
| 2 169 056 | 50 | 65 |

## B2 4068 002

OMCR

### LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO






**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 172 411 |

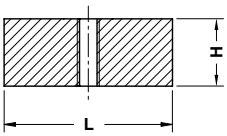
| BMW CODE | d1 | L1 |
|---|---|---|
| 2 172 410 | 22 | 45 |
| 2 172 411 | 32 | 50 |
| 2 172 412 | 40 | 55 |
| 2 172 413 | 50 | 55 |
| 2 173 658 | 56 | 80 |

## B2 4069 001

OMCR

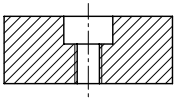
### KEY - PASSFEDER - CHIAVETTA






**FORM A**





**FORM B**

**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| BMW CODE | FORM |
|---|---|
| 2 172 224 | A |

| BMW CODE | H | L | FORM |
|---|---|---|---|
| 2 172 053 | 14 | 80 | A |
| 2 172 224 | 30 | 80 | A |
| 2 172 808 | 14 | 50 | A |
| 2 172 809 | 30 | 120 | A |
| 2 174 226 A | 20 | 50 | A |
| 2 174 226 B | 20 | 50 | B |
| 2 174 227 A | 20 | 80 | A |
| 2 174 227 B | 20 | 80 | B |
| 2 174 835 | 10 | 50 | B |
| 2 174 836 | 10 | 80 | B |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

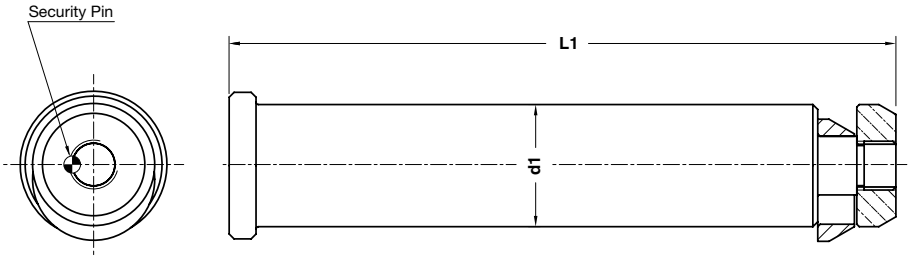
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**Notes**

**Material:**
See table - siehe Tabelle - vedi tabella

CE STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 396 |

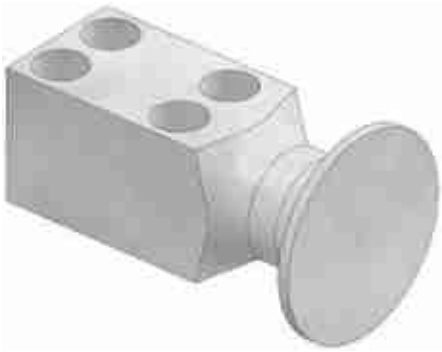
| BMW CODE | Max load (kg) | Max die weight (kg) | L1 | d1 | Material |
|---|---|---|---|---|---|
| **2 168 395** | 3200 | 6400 | 175 | 32 | CK45 |
| **2 168 396** | 5000 | 10000 | 225 | 40 | CK45 |
| **2 168 397** | 8000 | 16000 | 273 | 50 | CK45 |
| **2 168 398** | 12500 | 25000 | 347 | 63 | CK45 |
| **2 168 399** | 31500 | 63000 | 422 | 76 | 42CrMo4 + QT |

# LIFTING BRACKET WITH ROPE STOP SAFETY
# TRAGZAPFEN MIT SEILSICHERUNG
# STAFFA DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE





**FORM A**



**FORM B**

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**WARNING -ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

**Material:** CK45 - 700÷800 N/mm²

Screws not included

CE STOCK

ORDER EXAMPLE

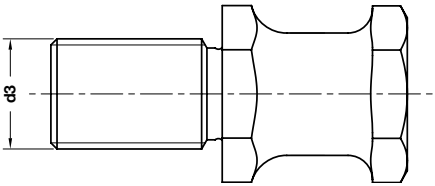
| BMW CODE |
|---|
| 3 275 834 |

| BMW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| **2 169 231** | 320 | 640 | A |
| **3 275 834** | 630 | 1260 | A |
| **3 275 835** | 1250 | 2500 | A |
| **3 275 836** | 2000 | 4000 | A |
| **3 275 838** | 3200 | 6400 | A |

| BMW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| **3 275 839** | 5000 | 10000 | A |
| **3 275 840** | 8000 | 16000 | B |
| **2 169 238** | 12500 | 25000 | B |
| **2 169 239** | 20000 | 40000 | B |
| | | | |

# LIFTING PIN VDI 3366
# TRAGSCHRAUBE VDI 3366
# PERNO DI SOLLEVAMENTO VDI 3366






Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

## Notes

**Material:** CK45 - 700÷800 N/mm²

CE STOCK

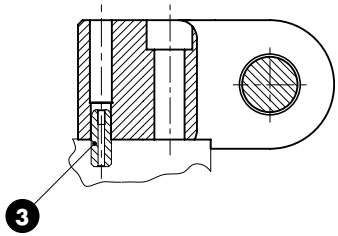
ORDER EXAMPLE

| BMW CODE |
|---|
| 2 172 289 |

| BMW CODE | Max load (kg) | Max die weight (kg) | d3 |
|---|---|---|---|
| 2 172 288 | 320 | 640 | M16 |
| 2 172 289 | 500 | 1000 | M20 |

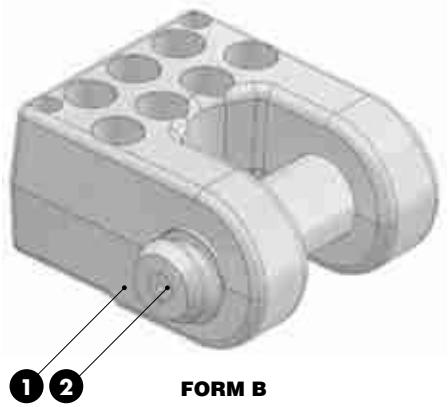
# LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CENTRAGGI








**FORM A**




**FORM B**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. **Material:** CK45
3. B2 4068 2
   **Material:** 16MnCr5 - **HRC:** 58÷60

Screws not included

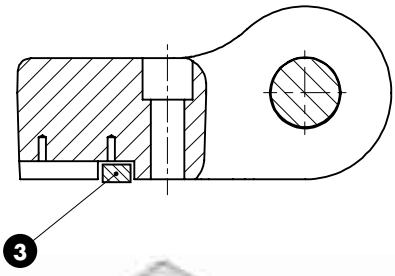
ORDER EXAMPLE

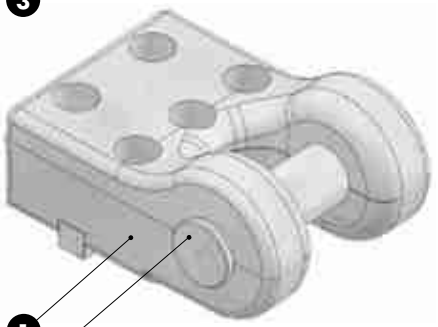
| BMW CODE |
|---|
| 2 174 861 |

| BMW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| **2 174 690** | 3200 | 6400 | A |
| **2 174 861** | 5000 | 10000 | A |
| **2 174 692** | 8000 | 16000 | A |

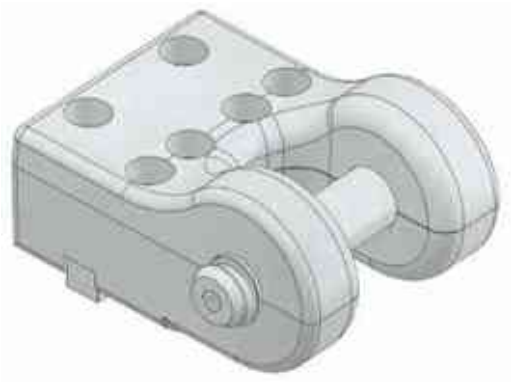
| BMW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| **2 175 233** | 12500 | 25000 | A |
| **2 174 694** | 18000 | 36000 | B |

# LIFTING BRACKET WITH PIN AND KEYS
# TRAGWANGE MIT TRAGBOLZEN UND PASSFEDER
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CHIAVETTE




**FORM C**



**FORM D**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. **Material:** CK45 - **FORM C**
2. **Material:** 42CrMo4 - **FORM D**
3. C14.20 - **Material:** CK45

Screws not included

STOCK

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 174 864 |

| BMW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| 2 174 863 | 25000 | 50000 | C |
| 2 174 864 | 31500 | 63000 | D |

# REPLACEMENT LIFTING PIN FOR LIFTING BRACKET BMW
# ERSATZTRAGBOLZEN FÜR TRAGWANGE BMW
# PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO BMW





Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

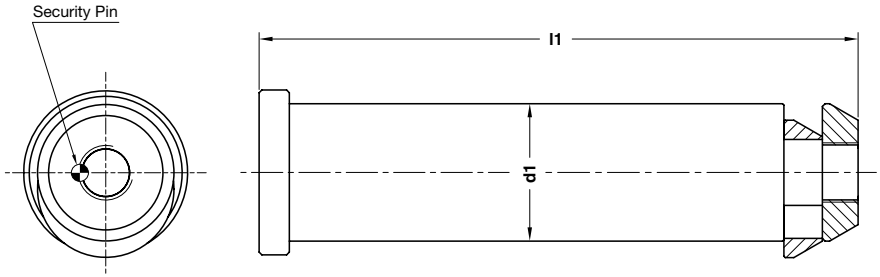
**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

CE STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 174 867 |

| BMW CODE | Max load (kg) | Max die weight (kg) | l1 | d1 | Material |
|---|---|---|---|---|---|
| **2 168 400** | 3200 | 6400 | 158 | 30 | CK45 |
| **2 174 867** | 5000 | 10000 | 187 | 40 | CK45 |
| **2 168 402** | 8000 | 16000 | 220 | 50 | CK45 |
| **2 174 868** | 12500 | 25000 | 246 | 60 | CK45 |
| **2 168 404** | 18000 | 36000 | 305 | 80 | CK45 |
| **2 174 865** | 25000 | 50000 | 360 | 80 | CK45 |
| **2 174 866** | 31500 | 63000 | 405 | 80 | 42CrMo4 + QT |

# B2 5702 012

OMCR

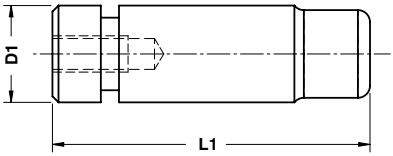
## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



**Notes**

**Material:** 42CrMo4
800÷1000 N/mm²

STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 173 660 |

| BMW CODE | D1 | L1 | BMW CODE | D1 | L1 |
|---|---|---|---|---|---|
| 2 173 659 | 32 | 111 | 2 173 663 | 32 | 128 |
| 2 173 660 | 40 | 145 | 2 173 664 | 40 | 165 |
| 2 173 661 | 50 | 171 | 2 173 665 | 50 | 196 |
| 2 173 662 | 63 | 206 | 2 173 666 | 63 | 241 |


# B2 5702 012

OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO

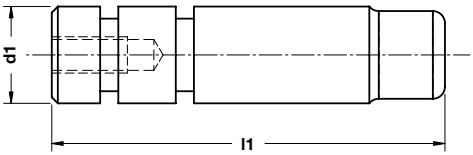



**Notes**

**Material:** 42CrMo4

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK




ORDER EXAMPLE

| BMW CODE |
|---|
| 2 173 668 |

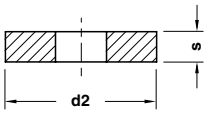
| BMW CODE | d1 | l1 | BMW CODE | d1 | l1 |
|---|---|---|---|---|---|
| 2 173 667 | 32 | 136 | 2 173 671 | 32 | 153 |
| 2 173 668 | 40 | 177 | 2 173 672 | 40 | 197 |
| 2 173 669 | 50 | 211 | 2 173 673 | 50 | 236 |
| 2 173 670 | 63 | 256 | 2 173 674 | 63 | 291 |

# B2 6201 011

OMCR

## WASHER - SCHEIBE - RONDELLA






STOCK

**Notes**

**Material:** CK45 - **HRC:** 45÷50

ORDER EXAMPLE

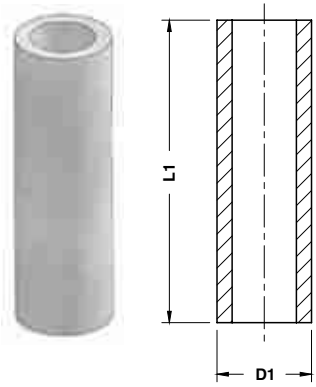
| BMW CODE |
|---|
| 0 281 619 |

| BMW CODE | d2 | s |
|---|---|---|
| 0 281 618 | 56 | 10 |
| 0 281 619 | 42 | 8 |
| 0 281 620 | 35 | 6 |
| 2 171 891 | 68 | 10 |

# B2 6201 012

OMCR

## SPACER TUBE - DISTANZBUCHSE - TUBO DISTANZIALE




**Notes**

**Material:** St37 - **HRC:** 60÷64

Delivery time
Lieferzeit in Werktagen
Tempi di spedizione

STOCK = ●

10 = ○

ORDER EXAMPLE

| BMW CODE |
|---|
| 2 168 800 |

| BMW CODE | D1 | L1 | Delivery Time |
|---|---|---|---|
| 0 266 957 | 16 | 125 | ● |
| 2 168 802 | 16 | 50 | ● |
| 2 168 803 | 16 | 63 | ● |
| 2 168 804 | 16 | 80 | ● |
| 2 168 807 | 16 | 200 | ● |
| 2 168 808 | 20 | 50 | ● |
| 2 168 809 | 20 | 63 | ● |
| 2 168 811 | 20 | 100 | ● |
| 2 168 812 | 20 | 125 | ● |
| 2 168 813 | 20 | 200 | ● |
| 2 168 814 | 25 | 50 | ● |
| 2 168 815 | 25 | 63 | ● |

| BMW CODE | D1 | L1 | Delivery Time |
|---|---|---|---|
| 2 168 816 | 25 | 80 | ● |
| 2 168 817 | 25 | 100 | ● |
| 2 168 818 | 25 | 125 | ● |
| 2 168 819 | 25 | 200 | ● |
| 2 168 820 | 30 | 50 | ● |
| 2 168 821 | 30 | 63 | ● |
| 2 168 822 | 30 | 80 | ● |
| 2 168 823 | 30 | 100 | ● |
| 2 168 824 | 30 | 125 | ● |
| 2 168 825 | 30 | 150 | ● |
| 2 168 826 | 30 | 200 | ● |
| 2 168 829 | 36 | 125 | ● |

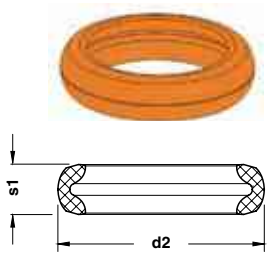
| BMW CODE | D1 | L1 | Delivery Time |
|---|---|---|---|
| 2 168 830 | 36 | 150 | ● |
| 2 168 831 | 36 | 200 | ● |
| 2 168 832 | 42 | 150 | ● |
| 2 168 833 | 42 | 200 | ● |
| 2 171 893 | 16 | >200 | ○ |
| 2 171 894 | 20 | >200 | ○ |
| 2 171 895 | 25 | 150 | ● |
| 2 171 896 | 25 | >200 | ○ |
| 2 171 897 | 30 | >200 | ○ |
| 2 171 898 | 36 | >200 | ○ |
| 2 171 899 | 42 | >200 | ○ |
| 2 172 153 | 36 | 80 | ● |

| BMW CODE | D1 | L1 | Delivery Time |
|---|---|---|---|
| 2 173 792 | 16 | <200 | ○ |
| 2 173 793 | 20 | <200 | ○ |
| 2 173 794 | 25 | <200 | ○ |
| 2 173 795 | 30 | <200 | ○ |
| 2 173 796 | 36 | <200 | ○ |
| 2 173 797 | 42 | <200 | ○ |
| 3 021 663 | 16 | 100 | ● |
| 3 021 664 | 36 | 100 | ● |
| 3 021 666 | 20 | 80 | ● |

## B2 6202 001

OMCR

### BUFFER - STOSSDÄMPFER - AMMORTIZZATORE




STOCK

**Notes**

**Material:** CO-Polyester Elastomer

ORDER EXAMPLE

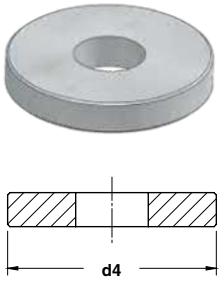
| BMW CODE |
|---|
| 2 173 881 |

| BMW CODE | d2 | s1 | Shore | Max load (kN) |
|---|---|---|---|---|
| 2 173 880 | 26,2 | 7,7 | 55D | 5500 |
| 2 173 881 | 32,1 | 10,8 | 72D | 9000 |
| 2 173 882 | 46,3 | 17,7 | 72D | 20000 |
| 2 173 883 | 54,6 | 21,6 | 55D | 30000 |
| 2 173 884 | 61,8 | 21,5 | 55D | 46000 |
| 2 173 885 | 78,2 | 30 | 55D | 75000 |

## B2 6202 001

OMCR

### WASHER - SCHEIBE - RONDELLA




STOCK

**Notes**

**Material:** CK45

ORDER EXAMPLE

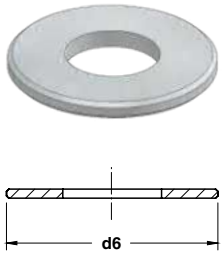
| BMW CODE |
|---|
| 2 175 382 |

| BMW CODE | d4 |
|---|---|
| 2 175 381 | 30 |
| 2 175 382 | 35 |
| 2 175 383 | 50 |
| 2 175 384 | 65 |
| 2 175 385 | 70 |
| 2 175 386 | 90 |

## B2 6202 001

OMCR

### WASHER - SCHEIBE - RONDELLA




STOCK

**Notes**

**Material:** 90MnCrV8 - **HRC:** 56

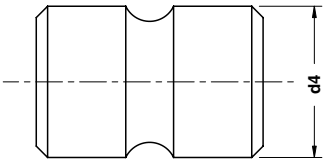
ORDER EXAMPLE

| BMW CODE |
|---|
| 2 175 388 |

| BMW CODE | d6 |
|---|---|
| 2 175 387 | 30 |
| 2 175 388 | 35 |
| 2 175 389 | 50 |
| 2 175 390 | 65 |
| 2 175 391 | 70 |
| 2 175 392 | 90 |

## SHOCK ABSORBER - HALTEELEMENT - AMMORTIZZATORE






**Notes**

**Material:** CO-Polyester Elastomer

STOCK



| ORDER EXAMPLE | BMW CODE |
|---|---|
| | 2 173 698 |

| BMW CODE | d4 |
|---|---|
| 2 173 697 | 40 |
| 2 173 698 | 50 |
| 2 173 699 | 63 |
| 2 173 700 | 80 |





# Die Components
# Normalien
# Componenti

FCA
FIAT CHRYSLER AUTOMOBILES

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

| 010.90.05 | 010.90.05 | 010.90.10 | 010.90.50 | 010.90.55 |
|---|---|---|---|---|
|  |  |  |  |  |
| Stamp<br>Buchstabenstempel<br>Gruppo punzone | Backing plate<br>Druckplatte<br>Distanziale | Stamp<br>Buchstabenstempel<br>Gruppo punzone marchio emblematico | Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Adjustment plate<br>Scheibe<br>Rondella di registro |
| 200 | 200 | 201 | 202 | 202 |

| 010.90.60 | 010.90.61 | 010.90.85 | 025.90.05 | 025.90.10 |
|---|---|---|---|---|
|  |  |  |  |  |
| Key<br>Passfeder<br>Chiavetta | Key<br>Passfeder<br>Chiavetta | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Ball caster<br>Kugelrollensystem<br>Sfera portante | Trestle guide group<br>Führungsgruppe<br>Gruppo guida traliccio |
| 203 | 203 | 204 | 204 | 205 |

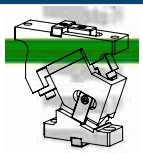
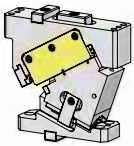
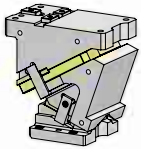
| 025.90.35 | 025.90.40 | 025.90.45 | 025.90.55 | 025.90.60 |
|---|---|---|---|---|
|  |  |  |  |  |
| Coil guide roller<br>Bandführung<br>Guida nastro mobile | Coil guide roller<br>Bandführung<br>Guida nastro fisso | Roller group<br>Förderrolle<br>Gruppo rullini | Roller<br>Rolle<br>Rotella | Spring group<br>Federeinheit<br>Gruppo molla |
| 206 | 206 | 207 | 208 | 208 |

| 025.90.65 | 025.90.70 | 025.90.75 | 025.90.80 | 025.90.85 |
|---|---|---|---|---|
|  |  |  |  |  |
| Spring group<br>Federeinheit<br>Gruppo molla | Lifter stop<br>Anschlag Heber<br>Gruppo arresto traliccio | Spring group<br>Federeinheit<br>Gruppo molla | Stripper for blanking dies<br>Abstreifer fur platinenschnitte<br>Estrattore per stampi tranciasviluppo | Roller stock lifter<br>Federnde laufrolle<br>Rullino sollevamento nastro |
| 209 | 209 | 210 | 210 | 211 |

| 025.90.90 | 025.90.95 | 025.90.95 | 025.90.105 | 025.90.155 |
|---|---|---|---|---|
|  |  |  |  |  |
| Spring group<br>Federeinheit<br>Gruppo molla | Pad retainer<br>Zugbolzensatz<br>Gruppo di arresto | Pad retainer<br>Zugbolzensatz<br>Gruppo di arresto | Roller<br>Rolle<br>Gruppo rullo di evacuazione | Guide post group<br>Fuhrungssäule mit führungslager<br>Gruppo colonna |
| 211 | 212 | 212 | 213 | 214 |

| 025.90.160 | 030.90.05 | 030.90.10 | 030.90.15 | 030.90.20 |
|---|---|---|---|---|
|  |  |  |  |  |
| Sring group<br>Federeinheit<br>Gruppo molla | Compensation block<br>Abstandsblock<br>Tassello di compensazione | Spacer plate toothed<br>Distanzplatte gezahnt<br>Tassello di compensazione | Pre-centering punch<br>Stempelvorzentrierung<br>Precentraggio punzone | Air pin<br>Unterluftbolzen<br>Candela |
| 215 | 216 | 216 | 217 | 217 |

| 030.90.40 | 030.90.41 | 030.90.45 | 030.90.165 | 040.90.10 |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage<br>Einweiser<br>Riferimento | Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito | Gage for sensor<br>Einweiser für teillagekontrolle<br>Riferimento per sensore | Air relief tubing<br>Tube<br>Tubetto sfogo aria | Flange Lifter<br>Abstreifer<br>Sflangiatore |
| 218 | 218 | 219 | 219 | 220 |

| 045.90.90 | 050.85.10 | 050.90.30 | 050.90.30 | 050.90.30 |
|---|---|---|---|---|
|  |  |  |  |  |
| Key<br>Passfeder<br>Chiavetta | Roller cam units CRX<br>Rollenschieber CRX<br>Camma a rullo CRX | Aerial cam unit CHD<br>Oben hängender schieber CHD<br>Unità a camme sospesa CHD | Aerial cam unit CHV<br>Oben hängender schieber CHV<br>Unità a camme sospesa CHV | Aerial cam unit CLB<br>Oben hängender schieber CLB<br>Unità a camme sospesa CLB |
| 220 | 221 | 222 | 223 | 224 |

| 050.90.65 | 050.90.70 | 050.90.75 | 050.90.90 | 050.90.95 |
|---|---|---|---|---|
|  |  |  |  |  |
| Distance plate for wear plate<br>Höhenausgleich für gleitplatte<br>Distanziale per piastra | Wear plate self-lubricating<br>Gleitplatte bronze mit festschmierstoff<br>Piastra guida autolubrificante | Wear plate steel<br>Gleitplatte stahl<br>Piastra guida in acciaio | Wear plate steel<br>Deckleiste Stahl<br>Piastra guida in acciaio | Wear plate steel<br>Deckleiste Stahl<br>Piastra guida in acciaio |
| 225 | 225 | 226 | 226 | 227 |

| 050.90.105 | 050.90.110 | 050.90.115 | 050.90.120 | 050.90.150 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver steel<br>Prismenführung<br>Guida a "V" in acciaio | "V" driver self-lubricating<br>Prismenführung bronze mit festschmierstoff<br>Guida a "V" autolubrificante | Distance plate for "V" driver<br>Höhenausgleich für Prismenfuhrung<br>Distanziale per guida a "V" | Angular guide<br>Winkelleiste<br>Guida angolare | Fork pawl<br>Befestigungsplatte<br>Forcella nottolino |
| 227 | 228 | 228 | 229 | 230 |

| 050.90.177 | 050.90.200 | 050.90.205 | 065.90.30 | 065.90.35 |
|---|---|---|---|---|
|  |  |  |  |  |
| Positive return plate<br>Zwangsrückholer<br>Gancio di sicurezza | Stop block<br>Anschlag<br>Arresto | Slide stop block<br>Schieberanschlag<br>Arresto slitta | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante |
| 230 | 231 | 231 | 232 | 233 |

| 065.90.40 | 065.90.45 | 065.90.65 | 065.90.70 | 065.90.70 |
|---|---|---|---|---|
|  |  |  |  |  |
| Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Shock absorber<br>Halteelement<br>Ammortizzatore | Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna guida DIN 9833 | Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna guida DIN 9833 |
| 234 | 235 | 236 | 237 | 238 |

| 065.90.75 | 065.90.80 | 065.90.85 | 065.90.90 | 065.90.96 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Führungssäule<br>Colonna guida | Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna guida DIN 9833 | Bush self-lubricating DIN 9834<br>Führungsbuchse DIN 9834<br>Boccola autolubrificante DIN 9834 | Toe clamp<br>Haltestück<br>Ritegno per boccola | Bush self lubricating<br>Führungsbuchse<br>Boccola autolubrificante |
| 239 | 240 | 241 | 241 | 242 |

| 065.90.102 | 065.90.120 | 065.90.120 | 065.90.125 | 065.90.130 |
|---|---|---|---|---|
|  |  |  |  |  |
| Toe clamp<br>Haltestück<br>Ritegno per boccola | Guide bar self-lubricating VDI 3357<br>Führungsleite bronze mit festschmierstoff VDI 3357<br>Lardone autolubrificante VDI 3357 | Wear plate steel VDI 3357<br>Gleitplatte stahl VDI 3357<br>Piastra guida in acciaio VDI 3357 | Distance plate for wear plate<br>Höhenausgleich für gleitplatte | Pad retainer pin<br>Steckbolzen<br>Perno di arresto |
| 242 | 243 | 244 | 245 | 246 |

| 065.90.190 | 065.90.195 | 065.90.200 | 075.90.45 | 075.90.110 |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating pin<br>Zentrierbolzen<br>Centraggio | Balance block<br>Distanzstück<br>Distanziale | Guide pin retainer plate<br>Sicherungsplatte<br>Ritegno per colonna | Spring plunger<br>Federne druckstücke<br>Espulsore a molla | Pressure plate<br>Druckplatte<br>Piastra di reazione |
| 246 | 247 | 247 | 248 | 249 |

| 075.90.115 | 075.90.120 | 080.90.60 | 080.90.65 | 080.90.70 |
|---|---|---|---|---|
|  |  |  |  |  |
| Pressure plate<br>Druckplatte<br>Piastra di reazione | Pressure plate<br>Druckplatte<br>Piastra di reazione | Clamp<br>Befestigungselement<br>Morsetto | Union nut<br>Befestigungselemen<br>Dado di unione | Union nut<br>Befestigungselemen<br>Dado di unione |
| 249 | 250 | 250 | 251 | 251 |

| 080.90.75 | 080.90.80 | 080.90.90 | 085.90.135 | 085.90.140 |
|---|---|---|---|---|
|  |  |  |  |  |
| Sleeve<br>Führungseinheit<br>Canotto guida | Guide post<br>Führungssaule<br>Colonna per traliccio | Elastomer cap<br>Elastomerdruckstük<br>Puntalino elastico | Coupling plate<br>Befestigungplatte<br>Staffa di reazione | Coupling nut<br>Kupplungsmutter<br>Aggancio staffa |
| 252 | 252 | 253 | 253 | 254 |

| 095.90.10 | 095.90.20 | 095.90.25 | 095.90.30 | 095.90.30 |
|---|---|---|---|---|
|  |  |  |  |  |
| Threaded steel insert<br>Gewindeeinsatz Aus Stahl<br>Inserto filettato in acciaio | Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Elastomer spring pin<br>Aufnahmebolzen<br>Perno per molle in elastomero | Replacement lifting pin for lifting bracket<br>Ersatztragbolzen für tragwange<br>Perno di ricambio per staffa di sollevamento | Replacement lifting pin for lifting bracket<br>Ersatztragbolzen für tragwange<br>Perno di ricambio per staffa di sollevamento |
| 254 | 255 | 255 | 256 | 257 |

| 095.90.35 | 095.90.40 | 095.90.60 | 095.90.71 | 095.90.75 |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin<br>Tragbolzen mit fallringsicherung<br>Perno di sollevamento | Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di sollevamento | Lifting bracket<br>Tragwange mit fallringsicherung<br>Staffa di sollevamento | Lifting bracket with pin and locating pins<br>Tragwange mit Tragbolzen und Zentrierbolzen<br>Staffa di sollevamento completa di perno e centraggi | Lifting pin<br>Tragbolzen mit fallringsicherung<br>Perno di sollevamento |
| 258 | 259 | 260 | 261 | 262 |

| 095.90.75 | STQ 10012 - BR | STQ 10012 - ACC | STQ 10012 - TIPO | STQ 10012 - BR |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin<br>Tragbolzen mit fallringsicherung<br>Perno di sollevamento | Wear plate self-lubricating<br>Gleitplatte bronze mit festschmierstoff<br>Piastra guida autolubrificante | Wear plate steel<br>Gleitplatte stahl<br>Piastra guida in acciaio | Distance plate for wear plate<br>Höhenausgleich für gleitplatte<br>Distanziale per piastra | Guide bar self-lubricating<br>Führungsleite bronze mit festschmierstoff<br>Lardone autolubrificante |
| 263 | 264 | 265 | 266 | 267 |

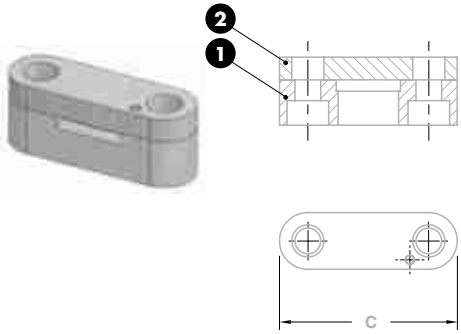
| STQ 10012 - ACC | STQ 20027 - RIF_M18 | STQ 40005 - ST | STQ 40005 - PIA-PA | STQ 40005 - PIA-PA |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide bar steel<br>Führungsleite stahl<br>Lardone in acciaio | Front gage<br>Einlaufanschlag<br>Portasensore | Bracket for clamps<br>Klammern für clamps<br>Staffe per clamps | Plate for clamps<br>Haltestücke für clamps<br>Piastrina per clamps | Plate for clamps<br>Haltestücke für clamps<br>Piastrina per clamps |
| 267 | 268 | 269 | 270 | 270 |

| STQ 40005 - PIA-PA | STQ 40005 - PIA-PR | STQ 40010 - CNT | STQ 40011 - CTN | STQ 40013 - CH |
|---|---|---|---|---|
|  |  |  |  |  |
| Plate for clamps<br>Haltestücke für clamps<br>Piastrina per clamps | Plate for clamps<br>Haltestücke für clamps<br>Piastrina per clamps | Locating<br>Zentrierung<br>Centraggio stampo | Stop block<br>Anschlag<br>Fine corsa diritto e a "V" | Key<br>Passfeder<br>Chiavetta di reazione |
| 271 | 271 | 272 | 272 | 272 |

## 010.90.05

OMCR

### STAMP - BUCHSTABENSTEMPEL - GRUPPO PUNZONE




**Notes**

1 2 **Material:** CK45

STOCK ... 3D WEB

ORDER EXAMPLE

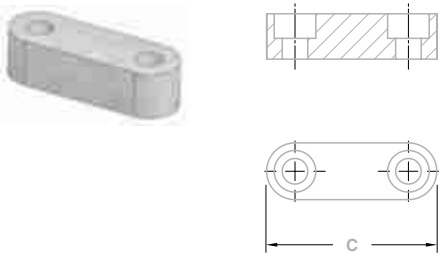
| FCA CODE |
|---|
| GRLO_4P_163247 |

| FCA CODE | C | Nr. of Punch |
|---|---|---|
| GRLO_3P_123045 | 45 | 3 |
| GRLO_4P_163247 | 47 | 4 |
| GRLO_8P_324863 | 63 | 8 |

## 010.90.05

OMCR

### BACKING PLATE - DRUCKPLATTE - DISTANZIALE




**Notes**

**Material:** 90MnVCr8KU - **HRC:** 56÷58

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| TCON_4P_163247 |

| FCA CODE | C | Nr. of punch |
|---|---|---|
| TCON_3P_123045 | 45 | 3 |
| TCON_4P_163247 | 47 | 4 |
| TCON_8P_324863 | 63 | 8 |

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO EMBLEMATICO

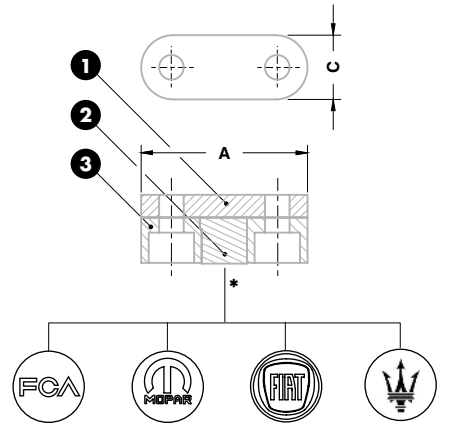


| Notes |
|---|
| 1 2 |
| **Material:** 90MnCrV8 - **HRC:** 54÷56 |
| 3 **Material:** 36CrNiMo4 - **HRC:** 48÷50 |

10 ... 3D WEB

* Specify the type of trademark punch
Typ Markenstempel angeben
Specificare il tipo di punzone marchio






**TYPE 01** **TYPE 02** **TYPE 03** **TYPE 04**

| ORDER EXAMPLE | FCA CODE | TYPE |
|---|---|---|
| | GRME_N15052022 | 02 |

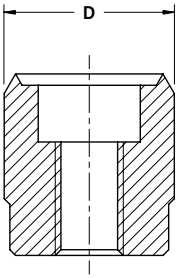
| FCA CODE | A | C |
|---|---|---|
| GRME_N10044017 | 44 | 17 |
| GRME_N15052022 | 52 | 22 |

## 010.90.50

OMCR

### VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE






| Notes |
|---|
| **Material:** X155CrVNo121<br>**HRC:** 58÷60 |

STOCK 3D WEB

ORDER EXAMPLE

| COMMODITY CODE |
|---|
| 21-750-0028 |

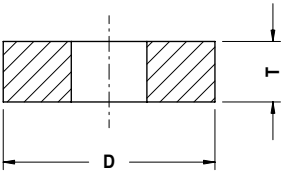
| COMMODITY CODE | D |
|---|---|
| 21-750-0019 | 13 |
| 21-750-0028 | 15 |
| 21-750-0038 | 18 |
| 21-750-0048 | 21 |

## 010.90.55

OMCR

### ADJUSTMENT PLATE - SCHEIBE - RONDELLA DI REGISTRO






| Notes |
|---|
| **Material:** 42CrMo4 |

STOCK 3D WEB

ORDER EXAMPLE

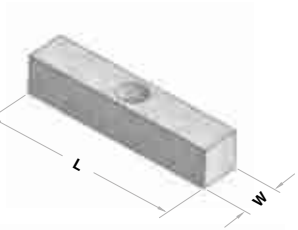
| COMMODITY CODE |
|---|
| 19-010-0119 |

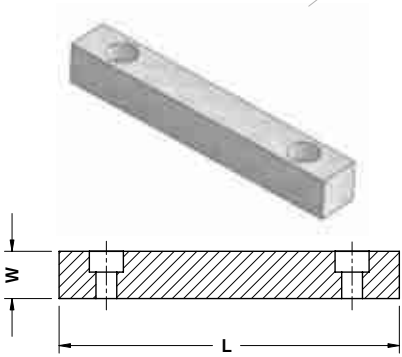
| COMMODITY CODE | D | T |
|---|---|---|
| 19-010-0121 | 12 | 3 |
| 19-010-0119 | 14 | 4 |
| 19-010-0118 | 17.5 | 4 |
| 19-010-0117 | 20.5 | 4 |

## 010.90.60

OMCR

### KEY - PASSFEDER - CHIAVETTA DI REAZIONE




**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| COMMODITY CODE |
|---|
| 19-010-9430 |

| COMMODITY CODE | L | W | Holes |
|---|---|---|---|
| 19-010-0089 | 80 | 25 | 1 |
| 19-010-9430 | 125 | 25 | 1 |
| 19-010-9431 | 180 | 25 | 2 |
| 19-010-0088 | 80 | 30 | 1 |
| 19-010-9432 | 125 | 30 | 1 |
| 19-010-9433 | 180 | 30 | 2 |

## 010.90.61

OMCR

### KEY - PASSFEDER - CHIAVETTA DI REAZIONE



**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| Ch_R_034090 |

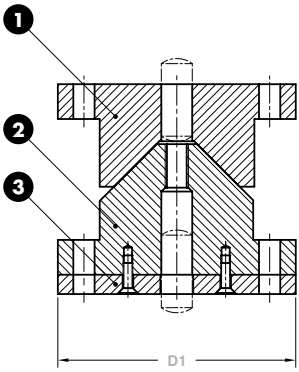
| FCA CODE |
|---|
| Ch_R_034090 |

## 010.90.85

OMCR

### LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO






**Notes**

1 2

**Material:** 16MnCr5 - **HRC:** 60÷62

3 **Material:** CK45

STOCK ... WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| CN_120_B |

| FCA CODE | COMMODITY CODE | D1 |
|---|---|---|
| CN_100_B | 19-010-0082 | 100 |
| CN_120_B | 19-010-0085 | 120 |

## 025.90.05

OMCR

### BALL CASTER - KUGELROLLENSYSTEM - SFERA PORTANTE

**Notes**

**Material:** Steel

STOCK WEB

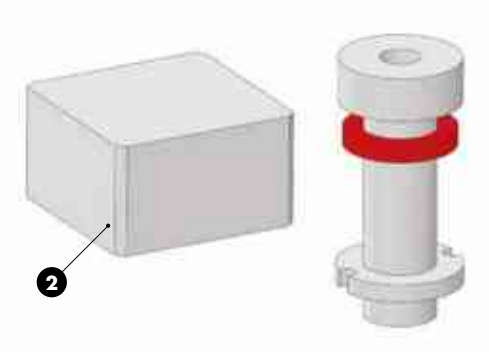


ORDER EXAMPLE

| FCA CODE |
|---|
| SF_KU30 |

| FCA CODE |
|---|
| SF_KU30 |

## TRESTLE GUIDE GROUP - FÜHRUNGSGRUPPE - GRUPPO GUIDA TRALICCIO



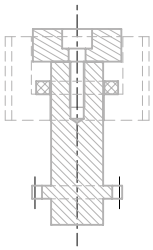

### Notes

1 2 **Material:** CK45

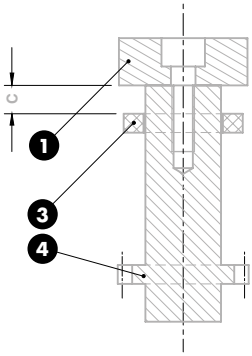
3 **Material:** Urelast 92 SH

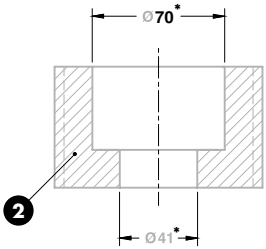
4 **Material:** 16MnCr5 - **HRC:** 58÷60

### Application example



STOCK ... 3D WEB




* To be performed after assembling with trestle.
Muss nach dem Zusammenbau mit der Schiene durchgeführt werden.
Da eseguire dopo assemblaggio con traliccio.

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GRG_TRA_C25 |

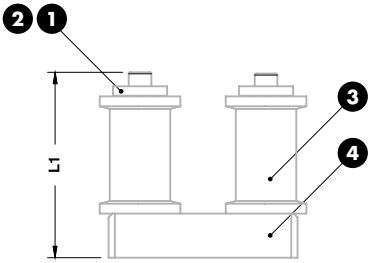
| FCA CODE | C |
|---|---|
| GRG_TRA_C15 | 15 |
| GRG_TRA_C25 | 25 |
| GRG_TRA_C30 | 50 |

## 025.90.35

OMCR

### COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDA NASTRO FISSO






**Notes**

1 2 **Material:** CK45

3 **Material:** 16MnCr5 - **HRC:** 58÷60

4 **Material:** St37

STOCK ... 3D WEB

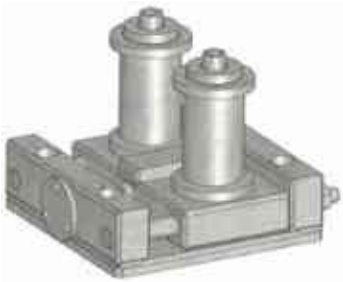
| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GUN_F_73159 |

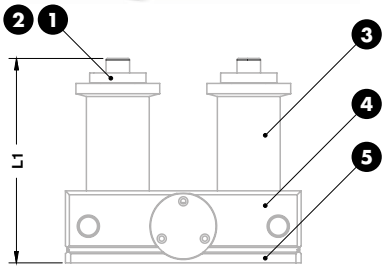
| FCA CODE | L1 | Stroke |
|---|---|---|
| GUN_F_55141 | 141 | 13 - 23 |
| GUN_F_73159 | 159 | 48 |

## 025.90.40

OMCR

### COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDA NASTRO MOBILE






**Notes**

1 2 **Material:** CK45

3 **Material:** 16MnCr5 - **HRC:** 58÷60

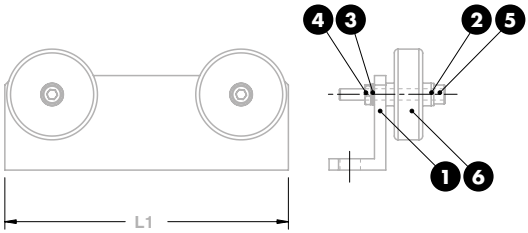
4 5 **Material:** St37

STOCK ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GUN_M_73157 |

| FCA CODE | L1 | Stroke |
|---|---|---|
| GUN_M_55150 | 150 | 13 |
| GUN_M_73157 | 157 | 23 |

## ROLLER GROUP - FÖRDERROLLE - GRUPPO RULLINI




**Notes**

1. **Material:** St52
2. 3 Washer for M6
4. Nut for M6
5. M6x50 DIN 912
6. 025.90.55

STOCK ... 3D WEB





**FORM A**



**FORM B**



**FORM C**

ORDER EXAMPLE

| FCA CODE |
|---|
| SP_R_250 |

| FCA CODE | L1 | FORM |
|---|---|---|
| SP_R_150 | 150 | A |
| SP_R_250 | 250 | B |
| SP_R_350 | 350 | C |

## 025.90.55

OMCR

### ROLLER - ROLLE - ROTELLA

| Notes |
|---|
| **Material:** Steel |

STOCK | 3D WEB




| ORDER EXAMPLE | FCA CODE |
|---|---|
| | ROT_048015 |

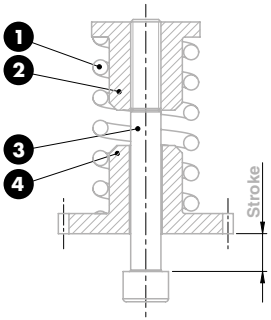
| FCA CODE |
|---|
| ROT_048015 |

## 025.90.60

OMCR

### SPRING GROUP - FEDEREINHEIT - GRUPPO MOLLA






| Notes |
|---|
| 1 Spring |
| 2 4 **Material:** CK45 |
| 3 M12x150 DIN 912 |

STOCK | ... | 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GR_MTR_C15 |

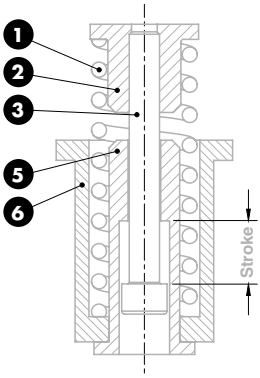
| FCA CODE | Stroke |
|---|---|
| GR_MTR_C15 | 15 |

## 025.90.65

OMCR

### SPRING GROUP - FEDEREINHEIT - GRUPPO MOLLA






**Notes**

1 Spring

2 5 6 **Material:** CK45

3 M12x150 DIN 912

STOCK ... 3D WEB

ORDER EXAMPLE

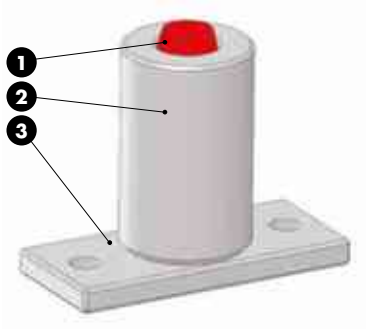
| FCA CODE |
|---|
| GR_MO_C50 |

| FCA CODE | Stroke |
|---|---|
| GR_MO_C25 | 25 |
| GR_MO_C50 | 50 |

## 025.90.70

OMCR

### LIFTER STOP - ANSCHLAG HEBER - GRUPPO ARRESTO TRALICCIO




**Notes**

1 **Material:** Elastomer 90SH

2 **Material:** C40

3 **Material:** Fe320

STOCK ... 3D WEB

ORDER EXAMPLE

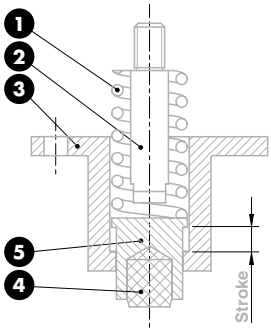
| FCA CODE |
|---|
| GRA_TRA1 |

| FCA CODE |
|---|
| GRA_TRA1 |

## 025.90.75

### SPRING GROUP - FEDEREINHEIT - GRUPPO MOLLA






**Notes**

1. Spring
2. 3. **Material:** 16MnCr5
4. **Material:** Urelast 90 SH
5. **Material:** 36CrNiMo4

STOCK ... 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| GR_RIM_TRA1 |

| FCA CODE | Stroke |
|---|---|
| GR_RIM_TRA1 | 13 |

## 025.90.80

### STRIPPER FOR BLANKING DIES
### ABSTREIFER FUR PLATINENSCHNITTE
### ESTRATTORE PER STAMPI TRANCIASVILUPPO



**Notes**

**Material:** Elastomer 70SH

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| ES_EL_027306 |

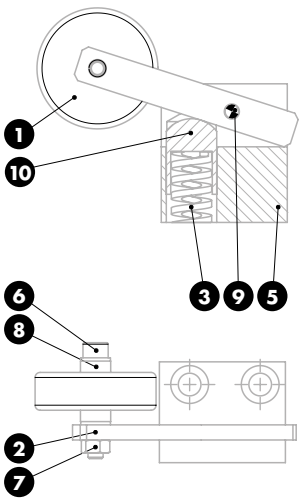
| FCA CODE |
|---|
| ES_EL_027306 |

## 025.90.85

OMCR

### ROLLER STOCK LIFTER - FEDERNDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO






**Notes**

1. **Material:** Steel ROT_048015 - 025.90.55
2. 5 **Material:** St37
3. Spring - load = 2 kg
6. M6x40 DIN 912
7. M6 DIN 934
8. DIN 127
9. 6x30 DIN 6325
10. **Material:** 16MnCr5

STOCK ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GRRU_SN_040080 |

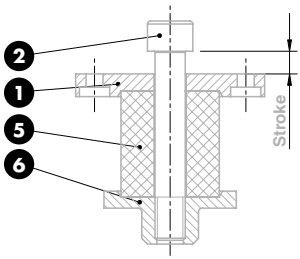
| FCA CODE |
|---|
| GRRU_SN_040080 |

## 025.90.90

OMCR

### SPRING GROUP - FEDEREINHEIT - GRUPPO MOLLA






**Notes**

1. **Material:** CK45
2. M16x100 DIN 912
5. **Material:** Elastomer 92 SH
6. **Material:** 36NiCrMo4

STOCK ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GR_MTR_C12 |

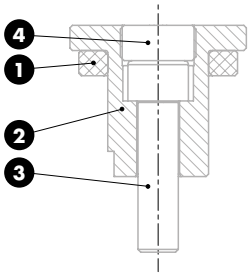
| FCA CODE | Stroke |
|---|---|
| GR_MTR_C12 | 12 |

## 025.90.95

OMCR

### PAD RETAINER - ZUGBOLZENSATZ - GRUPPO DI ARRESTO






**Notes**

1. **Material:** Elastomer 90SH
3. M16x60 DIN 912
4. **Material:** CK45
2. **Material:** 36CrNiMo4

STOCK ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GR_AR_070100 |

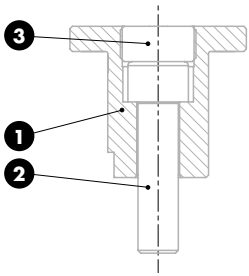
| FCA CODE |
|---|
| GR_AR_070100 |

## 025.90.95

OMCR

### PAD RETAINER - ZUGBOLZENSATZ - GRUPPO DI ARRESTO






**Notes**

1. **Material:** 36CrNiMo4
2. M16x60 DIN 912
3. **Material:** CK45

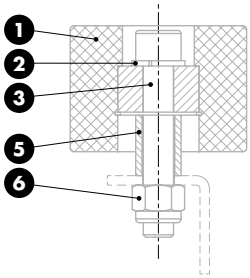
STOCK ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GR_SI_070100 |

| FCA CODE |
|---|
| GR_SI_070100 |

## ROLLER - ROLLE - GRUPPO RULLO DI EVACUAZIONE





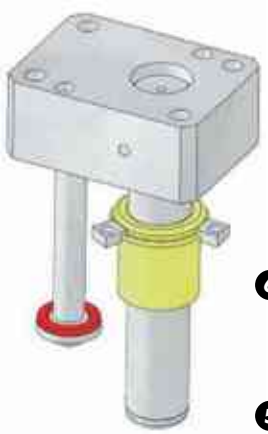

| Notes |
|---|
| 1 **Material:** Nylon |
| 2 DIN 127 |
| 3 M12x70 DIN 912 |
| 5 **Material:** CK45 |
| 6 M12 DIN 6924 |

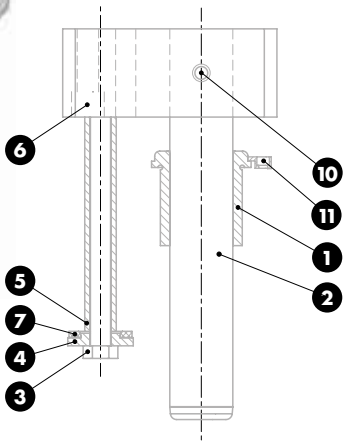
10 ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GRRU_EV_070050 |

| FCA CODE |
|---|
| GRRU_EV_070050 |

## GUIDE POST GROUP - FUHRUNGSSÄULE MIT FÜHRUNGSLAGER - GRUPPO COLONNA






### Notes

1. **Material:** Bronze - **HB**>190
2. **Material:** 16MnCr5 - **HRC:** 58÷60
3. 4 **Material:** CK45
5. **Material:** C12
6. **Material:** St52
7. **Material:** Elastomer 90 SH
10. M12x30 DIN 913
11. **Material:** St37

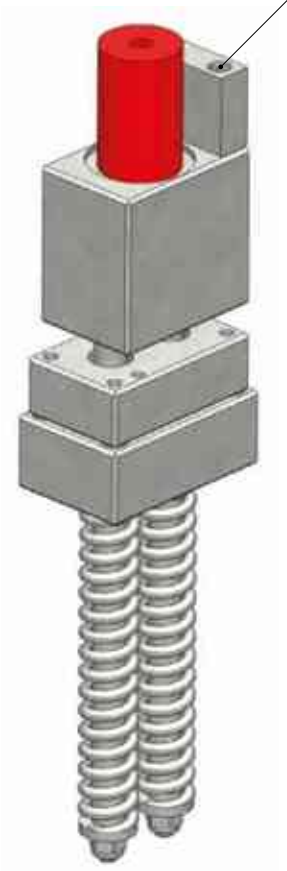
STOCK ... 3D WEB

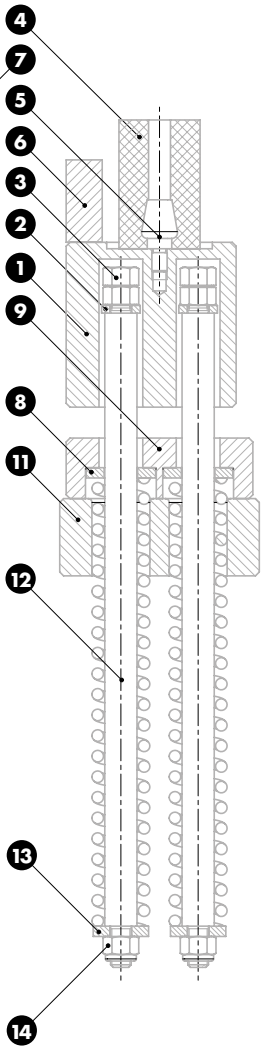
ORDER EXAMPLE

| FCA CODE |
| --- |
| GRC_AR_D50300 |

| FCA CODE |
| --- |
| GRC_AR_D50300 |

## SPRING GROUP - FEDEREINHEIT - GRUPPO MOLLA






| Notes |
|---|
| 1 9 11 **Material:** St37 |
| 2 8 13 **Material:** CK45 |
| 3 M16 DIN 934 |
| 4 5 095.90.20 - 095.90.25 |
| 6 12 **Material:** 36NiCrMo4 |
| 7 M10x60 DIN912 |
| 14 M16 DIN 6924 |

STOCK ... 3D WEB

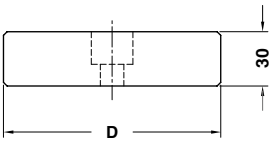
| ORDER EXAMPLE | FCA CODE |
|---|---|
| | GR_MTR_C120 |

| FCA CODE | Stroke |
|---|---|
| GR_MTR_C120 | 120 |

## 030.90.05

### COMPENSATION BLOCK - ABSTANDSBLOCK - TASSELLO DI COMPENSAZIONE






**Notes**

**Material:** 42CrMo4 - **HRC:** 46÷48

STOCK 3D WEB

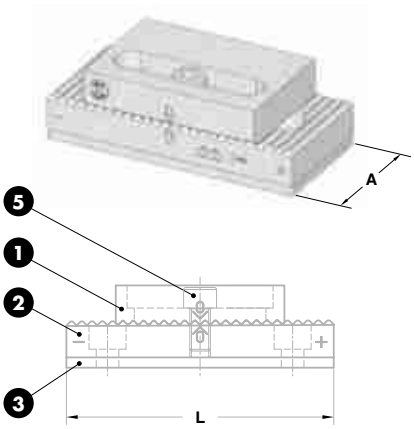
ORDER EXAMPLE

| FCA CODE |
|---|
| TC_100030 |

| FCA CODE | COMMODITY CODE | D |
|---|---|---|
| TC_080030 | 19-235-0058 | 80 |
| TC_100030 | 19-235-0057 | 100 |
| TC_120030 | 19-235-0054 | 120 |

## 030.90.10

### SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE




**Notes**

1 2 **Material:** 90MnCrV8
**HRC**: 58÷60

3 **Material:** X155CrVMo12

5 DIN 912

STOCK ... 3D WEB

ORDER EXAMPLE

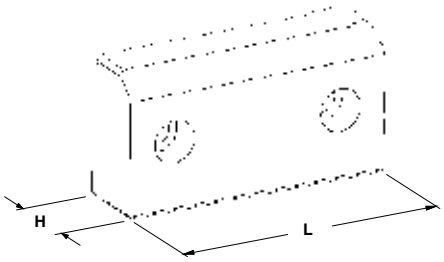
| FCA CODE |
|---|
| TCRS_16080 |

| FCA CODE | COMMODITY CODE | A | L |
|---|---|---|---|
| TCRS_13060 | 19-010-0123 | 60 | 130 |
| TCRS_16080 | 19-010-0122 | 80 | 160 |

## 030.90.15

OMCR

### PRE-CENTERING PUNCH - STEMPELVORZENTRIERUNG - PRECENTRAGGIO PUNZONE




**Notes**

**Material:** Ertalon

STOCK

3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| PPSP_90SH |

| FCA CODE | L | H |
|---|---|---|
| PPSP_100SH | 100 | 20 |
| PPSP_90SH | 115 | 31 |

## 030.90.20

OMCR

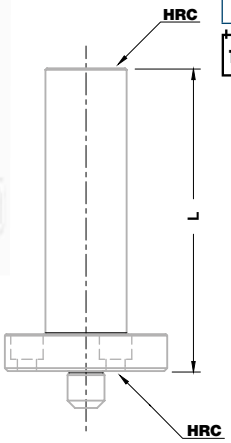
### AIR PIN - UNTERLUFTBOLZEN - CANDELA



FORM A



FORM B




**Notes**

**Material:** 42CrMo4 - **HRC:** 50÷52

10 3D WEB

ORDER EXAMPLE

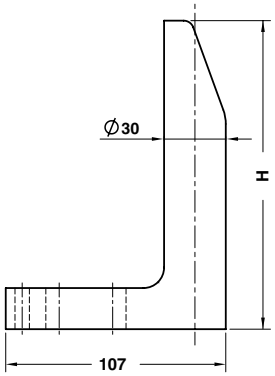
| FCA CODE |
|---|
| CA_A_50 |

| FCA CODE | COMMODITY CODE | L | FORM | FCA CODE | COMMODITY CODE | L | FORM |
|---|---|---|---|---|---|---|---|
| CA_A_25 | 19-235-0142 | 25 | A | CA_B_25 | 19-235-0068 | 25 | B |
| CA_A_50 | 19-235-0141 | 50 | A | CA_B_50 | 19-235-0067 | 50 | B |
| CA_A_75 | 19-235-0140 | 75 | A | CA_B_75 | 19-235-0066 | 75 | B |
| CA_A_100 | 19-235-0143 | 100 | A | CA_B_100 | 19-235-0065 | 100 | B |
| CA_A_125 | 19-235-0139 | 125 | A | CA_B_125 | 19-235-0064 | 125 | B |
| CA_A_150 | 19-235-0138 | 150 | A | CA_B_150 | 19-235-0063 | 150 | B |
| CA_A_175 | 19-235-0073 | 175 | A | CA_B_175 | 19-235-0062 | 175 | B |
| CA_A_200 | 19-235-0071 | 200 | A | CA_B_200 | 19-235-0061 | 200 | B |
| CA_A_225 | 19-235-0070 | 225 | A | CA_B_225 | 19-235-0060 | 225 | B |
| CA_A_250 | 19-235-0069 | 250 | A | CA_B_250 | 19-235-0059 | 250 | B |

## 030.90.40

### GAGE - EINWEISER - RIFERIMENTO






**Notes**

**Material:** CK60

STOCK | 3D WEB

ORDER EXAMPLE

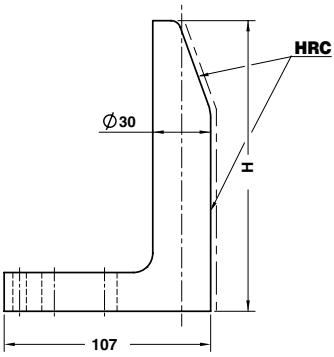
| FCA CODE |
|---|
| RIF_L_090 |

| FCA CODE | COMMODITY CODE | H |
|---|---|---|
| RIF_L_065 | 19-010-1706 | 65 |
| RIF_L_090 | 19-010-1709 | 90 |
| RIF_L_120 | 19-010-1712 | 120 |
| RIF_L_150 | 19-010-1715 | 150 |
| RIF_L_180 | 19-010-1718 | 180 |
| RIF_L_250 | 19-010-1725 | 250 |

## 030.90.41

### GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 56÷60

STOCK | 3D WEB

ORDER EXAMPLE

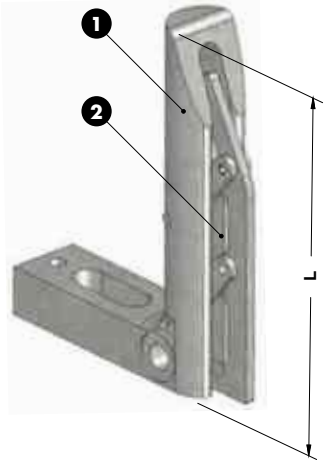
| COMMODITY CODE |
|---|
| 19-010-0209 |

| COMMODITY CODE | H |
|---|---|
| 19-010-0208 | 65 |
| 19-010-0209 | 90 |
| 19-010-0210 | 120 |
| 19-010-0211 | 150 |
| 19-010-0212 | 180 |
| 19-010-0213 | 250 |

## 030.90.45

OMCR

### GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE




**Notes**

1. **Material:** CK60
2. **Material:** St37 - **HRC:** 58÷60

STOCK · 3D WEB

ORDER EXAMPLE

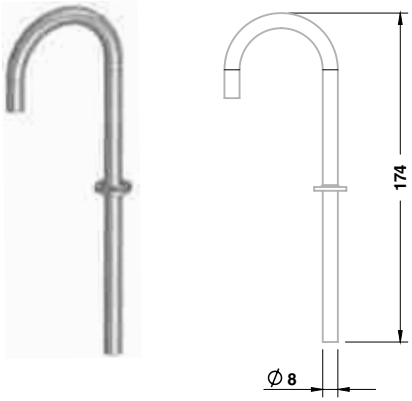
| FCA CODE |
|---|
| RIF_M12L150 |

| FCA CODE | L |
|---|---|
| RIF_M12L120 | 120 |
| RIF_M12L150 | 150 |
| RIF_M12L180 | 180 |
| RIF_M12L250 | 250 |

## 030.90.165

OMCR

### AIR RELIEF TUBING - TUBE - TUBETTO SFOGO ARIA




**Notes**

**Material:** Steel

STOCK · 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| TU_08174 |

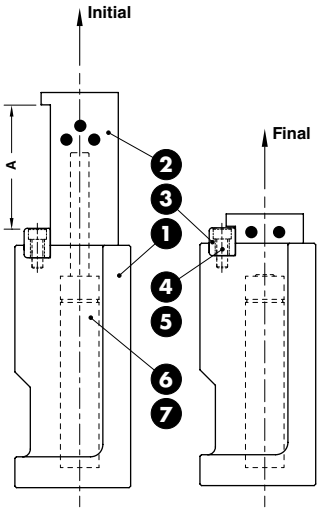
| FCA CODE |
|---|
| TU_08174 |

# 040.90.10

OMCR

## FLANGE LIFTER - ABSTREIFER - SFLANGIATORE






**Notes**

1. **Material:** EN-GJL300
2. **Material:** Bronze + Graphite - **HB**>190
3. **Material:** 36NiCrMo4
4. M8x30 DIN 912
5. Schnorr Ø8
6. Gas Spring
7. M6x12 DIN 7991

STOCK ... 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| C16.30.50100 |

| Supplier No. | A | Initial (daN) | Final (daN) |
|---|---|---|---|
| C16.30.50050 | 50 | 50 | 86 |
| C16.30.50100 | 50 | 100 | 172 |
| C16.30.50150 | 50 | 150 | 258 |
| C16.30.50200 | 50 | 200 | 344 |
| C16.30.80050 | 80 | 50 | 86 |
| C16.30.80100 | 80 | 100 | 172 |
| C16.30.80150 | 80 | 150 | 258 |
| C16.30.80200 | 80 | 200 | 344 |

# 045.90.90

OMCR

## KEY - PASSFEDER - CHIAVETTA




**Notes**

**Material:** CK45

STOCK 3D WEB

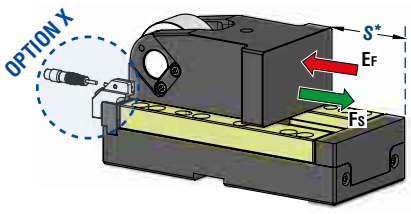
ORDER EXAMPLE

| FCA CODE |
|---|
| CH_MA_101620 |

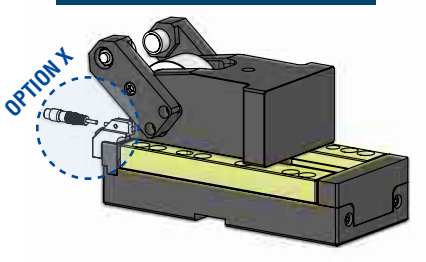
| FCA CODE | S1 |
|---|---|
| CH_MA_081220 | 12 |
| CH_MA_101620 | 16 |

# ROLLER CAM UNITS CRX - ROLLENSCHIEBER CRX - CAMMA A RULLO CRX

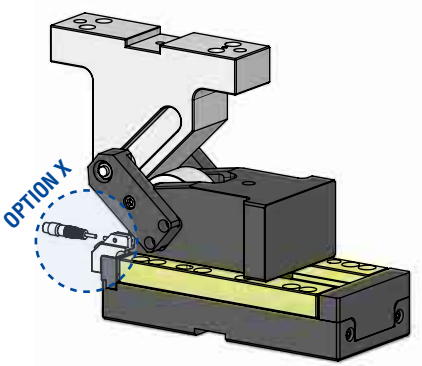
## Without Positive Return - OPTION X




## With Positive Return - OPTION P




## With Driver - OPTION DRIVER




ORDER EXAMPLE

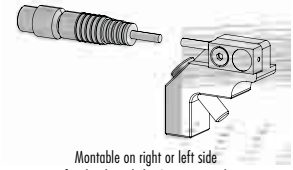
| FCA CODE |
|---|
| SEE ORDER CODE ON OMCR CAM UNITS PAGES |

## Notes

For technical info see pages 874÷898

STOCK | 3D WEB | WEB

## Back Position Check - OPTION X

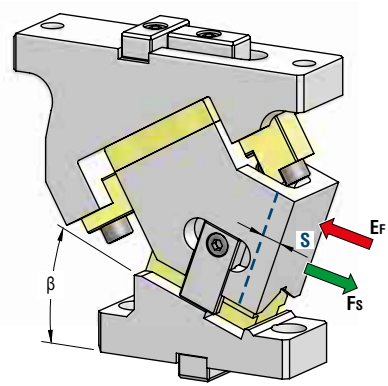


Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

Standard FCA

| CRX TYPE | Work Angle β | Slider Width (mm) | Work Area W x H (mm) | Max Work Force $10^6$ cycles (kN) | Extraction Force (kN) | OMCR cam units pages |
|---|---|---|---|---|---|---|
| | | | | FS | EF | |
| CRX01 | -15°÷50° | 78 | 78x63 | 45 | 2,5÷3,4 | 874 |
| CRX03 | -15°÷50° | 98 | 98x63 | 76 | 3,4÷3,6 | 880 |
| CRX05 | -15°÷50° | 118 | 118x74 | 142 | 6,36÷6,46 | 886 |
| CRX15 | -15°÷50° | 170 | 170x94 | 166 | 6,45÷6,61 | 892 |
| CRX20 | -15°÷50° | 240 | 240x110 | 258 | 9,29÷9,38 | 898 |

# AERIAL CAM UNIT CHD
# OBEN HÄNGENDER SCHIEBER CHD
# UNITÀ A CAMME SOSPESA CHD




**Notes**

For technical info see pages 634÷666

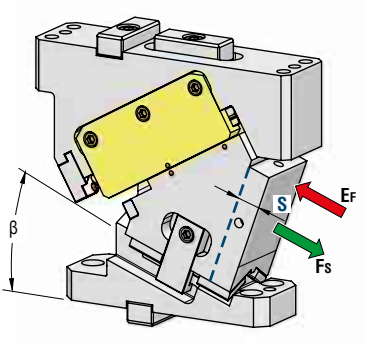
STOCK | 3D WEB | WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| SEE ORDER CODE ON OMCR CAM UNITS PAGES |

| CHD TYPE | Work Angle β | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | | OMCR cam units pages |
|---|---|---|---|---|---|---|---|---|
| | | | | | | $E_F$ | | |
| | | | | | $F_S$ | Spring | Gas Spring | |
| **CHD050** | 0°÷65° (5° steps) | 50 | 180 | 50x65 | 60 | 1,14÷1,31 | 1,44÷1,72 | 634 |
| **CHD065** | 0°÷65° (5° steps) | 65 | 180 | 65x65 | 60 | 1,14÷1,31 | 1,44÷1,72 | 638 |
| **CHD080** | 0°÷65° (5° steps) | 80 | 275 | 80x88 | 149 | 1,13÷1,37 | 1,50÷1,85 | 642 |
| **CHD100** | 0°÷65° (5° steps) | 100 | 275 | 100x88 | 149 | 1,13÷1,37 | 1,50÷1,85 | 646 |
| **CHD150** | 0°÷65° (5° steps) | 150 | 355 | 150x120 | 391 | 2,29 | 7,15 | 650 |
| **CHD180** | 0°÷65° (5° steps) | 180 | 355 | 180x120 | 396 | 2,29 | 7,15 | 654 |
| **CHD200** | 0°÷65° (5° steps) | 200 | 355 | 200x120 | 396 | 2,29 | 7,15 | 658 |
| **CHD250** | 0°÷65° (5° steps) | 250 | 355 | 250x160 | 645 | 4,58 | 14,30 | 662 |
| **CHD300** | 0°÷65° (5° steps) | 300 | 355 | 300x160 | 645 | 4,58 | 14,30 | 666 |

# AERIAL CAM UNIT CHV
# OBEN HÄNGENDER SCHIEBER CHV
# UNITÀ A CAMME SOSPESA CHV




**Notes**

For technical info see pages 712÷760

STOCK | 3D WEB | WEB

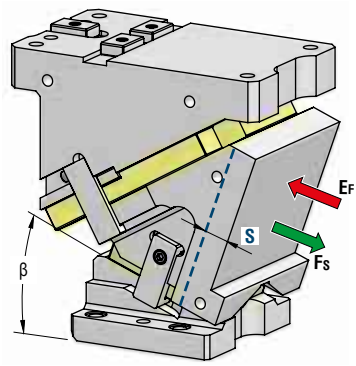


ORDER EXAMPLE

| FCA CODE |
|---|
| SEE ORDER CODE ON OMCR CAM UNITS PAGES |

| CHV TYPE | Work Angle β | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | OMCR cam units pages |
|---|---|---|---|---|---|---|---|
| | | | | | FS | EF | |
| **CHV050** | 0°÷75° (5° steps) | 50 | 175÷195 | 60x100 | 92÷110 | 4,5÷6,1 | 712 |
| **CHV060** | 0°÷75° (5° steps) | 60 | 210 | 60x100 | 136÷143 | 5,1÷6,2 | 716 |
| **CHV085** | 0°÷75° (5° steps) | 85 | 225 | 85x120 | 229÷293 | 7,10÷12 | 720 |
| **CHV110** | 0°÷75° (5° steps) | 110 | 275 | 110x160 | 357÷407 | 6,2÷16,8 | 724 |
| **CHV150** | 0°÷75° (5° steps) | 150 | 300 | 150x160 | 421÷584 | 17,3÷20,8 | 728 |
| **CHV180** | 0°÷75° (5° steps) | 180 | 300 | 180x160 | 474÷598 | 17,1÷20,5 | 732 |
| **CHV220** | 0°÷75° (5° steps) | 220 | 300 | 220x160 | 635÷732 | 16,6÷46,2 | 736 |
| **CHV260** | 0°÷75° (5° steps) | 260 | 300 | 260x160 | 536÷767 | 16,6÷46,2 | 740 |
| **CHV330** | 0°÷75° (5° steps) | 330 | 375 | 330x180 | 1005÷1020 | 46,5÷94,9 | 744 |
| **CHV400** | 0°÷75° (5° steps) | 400 | 375 | 400x180 | 1052÷1055 | 48÷87,1 | 748 |
| **CHV500** | 0°÷75° (5° steps) | 500 | 375 | 500x180 | 1155 | 64,5÷87,0 | 752 |
| **CHV600** | 0°÷75° (5° steps) | 600 | 400 | 600x200 | 1202 | 84,2÷98,2 | 758 |

# AERIAL CAM UNIT CLB
# OBEN HÄNGENDER SCHIEBER CLB
# UNITÀ A CAMME SOSPESA CLB




**Notes**

For technical info see pages 804÷820

STOCK | 3D WEB | WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| SEE ORDER CODE ON OMCR CAM UNITS PAGES |

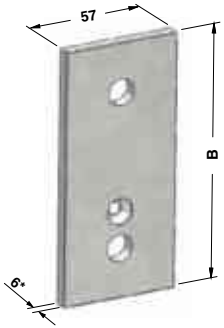
| CLB TYPE | Work Angle β | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) FS | Extraction Force (kN) EF Spring | Extraction Force (kN) EF Gas Spring | OMCR cam units pages |
|---|---|---|---|---|---|---|---|---|
| **CLB200** | 0°÷60° (5° steps) | 200 | 350 | 200x180 | 302 | 2,12÷2,73 | 8,88÷11,42 | 804 |
| **CLB300** | 0°÷60° (5° steps) | 300 | 350 | 300x180 | 411 | 4,25÷5,46 | 17,76÷22,83 | 808 |
| **CLB400** | 0°÷60° (5° steps) | 400 | 350 | 400x180 | 526 | 4,25÷5,46 | 17,76÷22,83 | 812 |
| **CLB500** | 0°÷60° (5° steps) | 500 | 350 | 500x180 | 743 | 6,37÷8,19 | 26,64÷34,25 | 816 |
| **CLB600** | 0°÷60° (5° steps) | 600 | 350 | 600x180 | 865 | 8,50÷10,92 | 35,52÷45,67 | 820 |

## 050.90.65

OMCR

### DISTANCE PLATE FOR WEAR PLATE
### HÖHENAUSGLEICH FÜR GLEITPLATTE
### DISTANZIALE PER PIASTRA

* Provided 0,5 mm plus for adjustment
wird mit 0,5 mm Aufmaß geliefert, zur Anpassung am Werkzeug
Fornita maggiorata di 0,5 mm per adattamento su stampo




FORM A



FORM B

**Notes**

**Material:** St37

STOCK | 3D | WEB

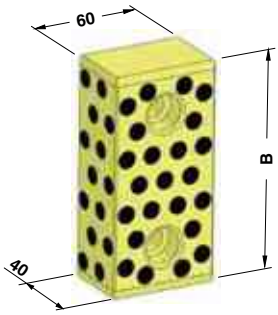
| ORDER EXAMPLE | FCA CODE |
|---|---|
| | PSP2S_057006158 |

| FCA CODE | COMMODITY CODE | B | FORM |
|---|---|---|---|
| PSP2S_057006123 | 19-005-0161 | 123 | A |
| PSP2S_057006158 | 19-005-0162 | 158 | A |
| PSP2S_057006198 | 19-005-0163 | 198 | B |
| PSP2S_057006248 | 19-005-0164 | 248 | B |
| PSP2S_057006318 | 19-005-0165 | 318 | B |

## 050.90.70

OMCR

### WEAR PLATE SELF-LUBRICATING
### GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
### PIASTRA GUIDA AUTOLUBRIFICANTE




FORM A



FORM B

**Notes**

**Material:** Bronze + Graphite - **HB**>190

STOCK | | 3D | WEB

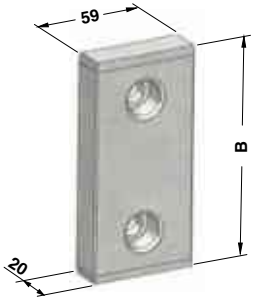
| ORDER EXAMPLE | FCA CODE |
|---|---|
| | P2S_060040160 |

| FCA CODE | COMMODITY CODE | B | FORM |
|---|---|---|---|
| P2S_060040125 | 19-205-0179 | 125 | A |
| P2S_060040160 | 19-205-0178 | 160 | A |
| P2S_060040200 | 19-205-0177 | 200 | B |

## 050.90.75

OMCR

**WEAR PLATE STEEL**
**GLEITPLATTE STAHL**
**PIASTRA GUIDA IN ACCIAIO**




FORM A



FORM B

**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷62

STOCK | 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| PA2S_059020160 |

| FCA CODE | COMMODITY CODE | B | FORM |
|---|---|---|---|
| PA2S_059020125 | 19-205-0176 | 125 | A |
| PA2S_059020160 | 19-205-0180 | 160 | A |
| PA2S_059020200 | 19-205-0181 | 200 | B |
| PA2S_059020250 | 19-205-0182 | 250 | B |
| PA2S_059020320 | 19-205-0183 | 320 | B |

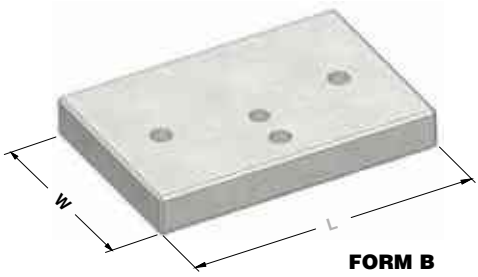
## 050.90.90

OMCR

**WEAR PLATE STEEL - DECKLEISTE STAHL - PIASTRA GUIDA IN ACCIAIO**



FORM A




FORM B

**Notes**

**Material:** 42CrMo4- **HRC:** 58÷62

STOCK | 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| LA_130200_S |

| FCA CODE | W | L | FORM |
|---|---|---|---|
| LA_130160_S | 130 | 160 | A |
| LA_130200_S | 130 | 200 | A |
| LA_170250_S | 170 | 250 | B |
| LA_170320_S | 170 | 320 | B |

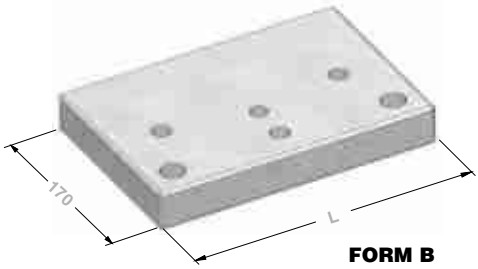
## 050.90.95

OMCR

### WEAR PLATE STEEL - DECKLEISTE STAHL - PIASTRA GUIDA IN ACCIAIO



**FORM A**




**FORM B**

**Notes**

**Material:** 42CrMo4 - **HRC:** 58÷62

STOCK | WEB

ORDER EXAMPLE

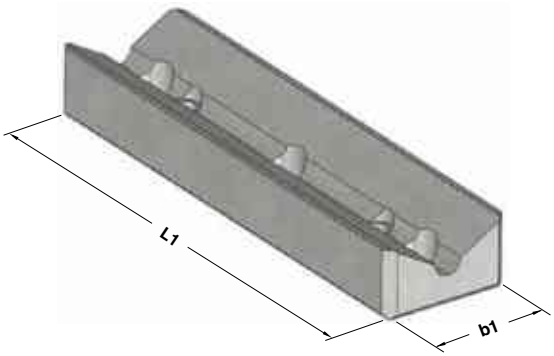
| FCA CODE |
|---|
| LA_170200_C |

| FCA CODE | L | FORM |
|---|---|---|
| LA_170160_C | 160 | A |
| LA_170200_C | 200 | A |
| LA_170250_C | 250 | B |
| LA_170320_C | 320 | B |

## 050.90.105

OMCR

### "V" DRIVER STEEL VDI 3357
### PRISMENFÜHRUNG STAHL VDI 3357
### GUIDA A "V" IN ACCIAIO VDI 3357




**Notes**

**Material:** CK45 - **HRC:** 58÷60

STOCK | WEB

ORDER EXAMPLE

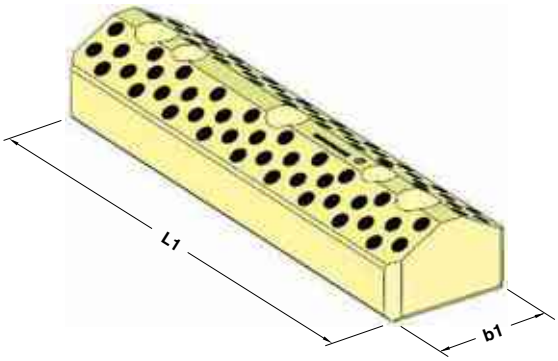
| FCA CODE |
|---|
| G_V_200065_F |

| FCA CODE | COMMODITY CODE | b1 | L1 |
|---|---|---|---|
| G_V_150065_F | 19-205-0213 | 65 | 150 |
| G_V_200065_F | 19-205-0214 | 65 | 200 |
| G_V_250065_F | 19-205-0215 | 65 | 250 |
| G_V_300065_F | 19-205-0216 | 65 | 300 |
| G_V_150125_F | 19-205-0217 | 125 | 150 |
| G_V_200125_F | 19-205-0218 | 125 | 200 |
| G_V_250125_F | 19-205-0219 | 125 | 250 |
| G_V_300125_F | 19-205-0221 | 125 | 300 |

# 050.90.110

OMCR

## "V" DRIVER SELF-LUBRICATING VDI 3357
## PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
## GUIDA A "V" AUTOLUBRIFICANTE VDI 3357




**Notes**

**Material:** Bronze + Graphite - **HB**>190

STOCK | WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| G_V_200065_M |

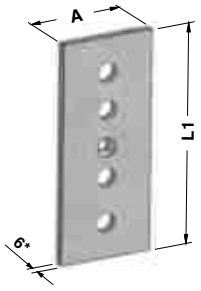
| FCA CODE | COMMODITY CODE | b1 | L1 |
|---|---|---|---|
| G_V_150065_M | 19-205-0205 | 65 | 150 |
| G_V_200065_M | 19-205-0206 | 65 | 200 |
| G_V_250065_M | 19-205-0207 | 65 | 250 |
| G_V_300065_M | 19-205-0208 | 65 | 300 |
| G_V_150125_M | 19-205-0209 | 125 | 150 |
| G_V_200125_M | 19-205-0210 | 125 | 200 |
| G_V_250125_M | 19-205-0211 | 125 | 250 |
| G_V_300125_M | 19-205-0212 | 125 | 300 |

# 050.90.115

OMCR

## DISTANCE PLATE FOR "V" DRIVER
## HÖHENAUSGLEICH FÜR PRISMENFUHRUNG
## DISTANZIALE PER GUIDA A "V"

* Provided 0,5 mm plus for adjustment
wird mit 0,5 mm Aufmaß geliefert, zur Anpassung am Werkzeug
Fornita maggiorata di 0,5 mm per adattamento su stampo




FORM A



FORM B

**Notes**

**Material:** St37

STOCK | WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| SP_V_06200065 |

| FCA CODE | A | L1 | FORM |
|---|---|---|---|
| SP_V_06150065 | 63 | 148 | A |
| SP_V_06200065 | 63 | 198 | A |
| SP_V_06250065 | 63 | 248 | A |
| SP_V_06300065 | 63 | 298 | A |
| SP_V_06150125 | 123 | 148 | B |
| SP_V_06200125 | 123 | 198 | B |
| SP_V_06250125 | 123 | 248 | B |
| SP_V_06300125 | 123 | 298 | B |

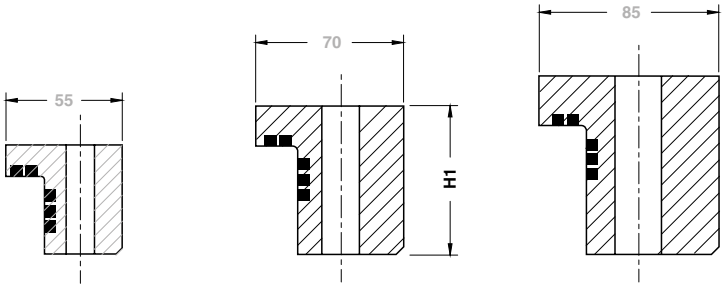
## ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

**Notes**

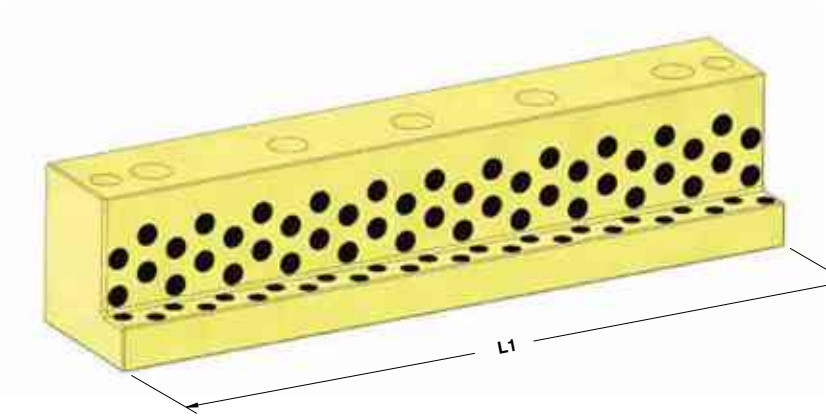
**Material:** Bronze + Graphite - **HB**>190

STOCK WEB






**FORM A** **FORM B** **FORM C**




ORDER EXAMPLE

| FCA CODE |
|---|
| G_L_055055160 |

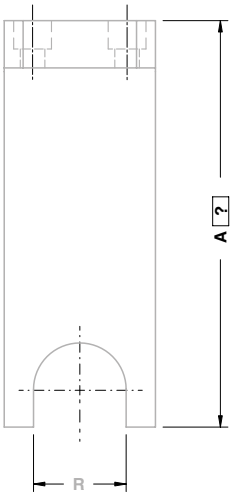
| FCA CODE | COMMODITY CODE | L1 | H1 | FORM | FCA CODE | COMMODITY CODE | L1 | H1 | FORM |
|---|---|---|---|---|---|---|---|---|---|
| G_L_055055100 | 19-205-0165 | 100 | 55,5 | A | G_L_070075400 | 19-205-0170 | 400 | 75,5 | B |
| G_L_055055160 | 19-205-0166 | 160 | 55,5 | A | G_L_085090160 | 19-205-0171 | 160 | 90,5 | C |
| G_L_070075160 | 19-205-0167 | 160 | 75,5 | B | G_L_085090200 | 19-205-0172 | 200 | 90,5 | C |
| G_L_070075200 | 19-205-0168 | 200 | 75,5 | B | G_L_085090250 | 19-205-0173 | 250 | 90,5 | C |
| G_L_070075250 | 19-205-0169 | 250 | 75,5 | B | G_L_085090400 | 19-205-0174 | 400 | 90,5 | C |

## 050.90.150

OMCR

### FORK PAWL - BEFESTIGUNGSPLATTE - FORCELLA NOTTOLINO






⚠

150 ≤ A ≤ 220

**Notes**

**Material:** St37

10 3D WEB

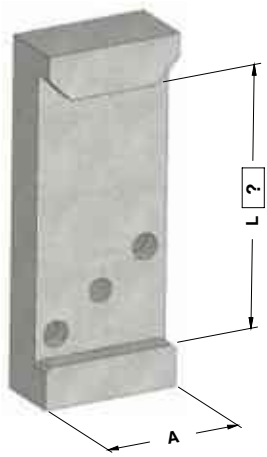
| ORDER EXAMPLE | FCA CODE | A=? |
|---|---|---|
| | FOR_49 | 160 |

| FCA CODE | R |
|---|---|
| FOR_39 | 39 |
| FOR_49 | 49 |

## 050.90.177

OMCR

### POSITIVE RETURN PLATE - ZWANGSRÜCKHOLER - GANCIO DI SICUREZZA




**Notes**

**Material:** CK45 - **HRC:** 52÷54

10 3D WEB

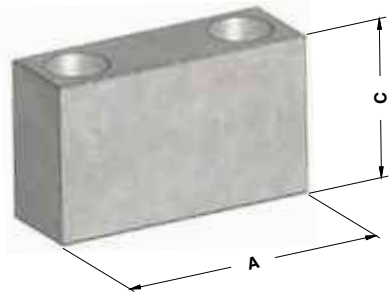
| ORDER EXAMPLE | FCA CODE | L=80 |
|---|---|---|
| | GA_60 | 80 |

| FCA CODE | A |
|---|---|
| GA_35 | 35 |
| GA_60 | 60 |

## 050.90.200

OMCR

### STOP BLOCK - ANSCHLAG - ARRESTO




**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

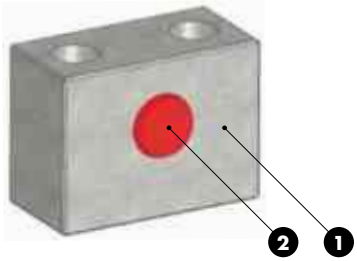
| FCA CODE |
|---|
| ARR_752545 |

| FCA CODE | A | C |
|---|---|---|
| ARR_502545 | 50 | 45 |
| ARR_502565 | 50 | 65 |
| ARR_752545 | 75 | 45 |
| ARR_752565 | 75 | 65 |

## 050.90.205

OMCR

### SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA




**Notes**

1. **Material:** CK45
2. **Material:** Urelast 92SH PU_EL_24 - 080.90.90

STOCK ... 3D WEB

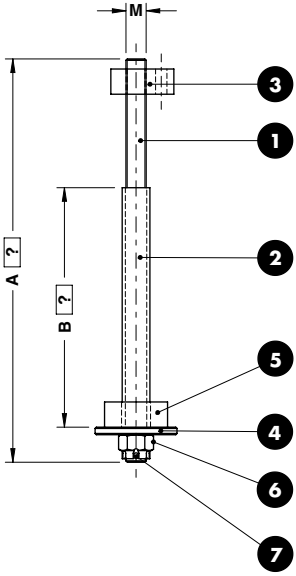
ORDER EXAMPLE

| FCA CODE |
|---|
| ARR_AMM_D24 |

| FCA CODE |
|---|
| ARR_AMM_D24 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE





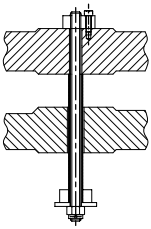

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. 3 **Material:** St37
4. **Material:** CK45
5. Elastomer 92SH
6. DIN 935 cl. 8.8
7. DIN 94

10 ... 3D WEB

### Application example

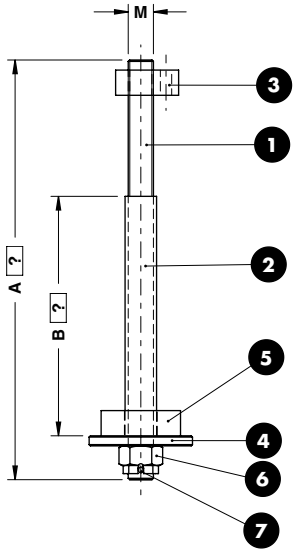


| ORDER EXAMPLE | FCA CODE | A=100 | B=60 |
|---|---|---|---|
| | GRTI_M16 | A100 | B60 |

| FCA CODE | M | Max load (kg) |
|---|---|---|
| GRTI_M16AB | M16 | 250 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE





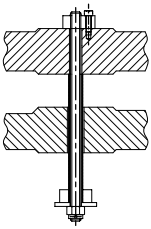

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. 3 **Material:** St37
4. **Material:** CK45
5. Elastomer 92SH
6. DIN 935 cl. 8.8
7. DIN 94

10 ... 3D WEB

### Application example



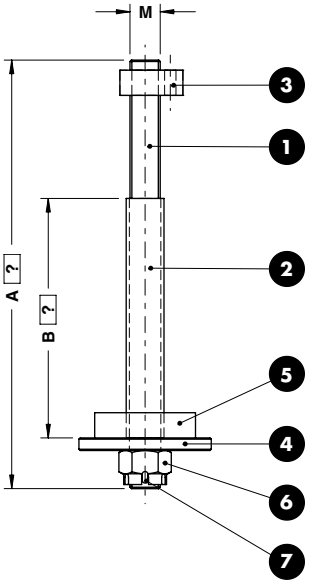


| ORDER EXAMPLE | FCA CODE | A=100 | B=60 |
|---|---|---|---|
| | GRTI_M20 | A100 | B60 |

| FCA CODE | M | Max load (kg) |
|---|---|---|
| GRTI_M20AB | M20 | 450 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE





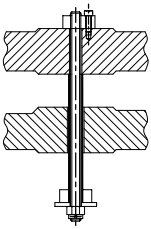

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. 3 **Material:** St37
4. **Material:** CK45
5. Elastomer 92SH
6. DIN 935 cl. 8.8
7. DIN 94

10 ... 3D WEB

### Application example



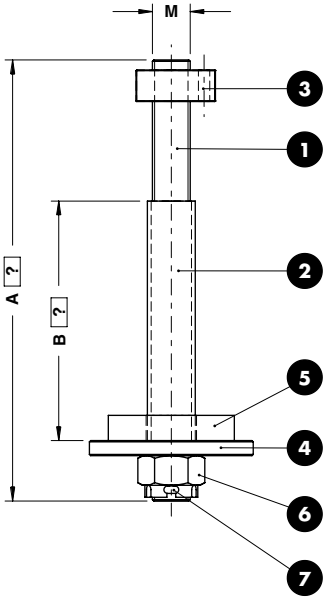
ORDER EXAMPLE

| FCA CODE | A=100 | B=60 |
|---|---|---|
| GRTI_M24 | A100 | B60 |

| FCA CODE | M | Max load (kg) |
|---|---|---|
| GRTI_M24AB | M24 | 750 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE





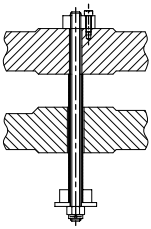

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. 3 **Material:** St37
4. **Material:** CK45
5. Elastomer 92SH
6. DIN 935 cl. 8.8
7. DIN 94

10 ... 3D WEB

### Application example



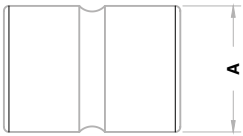
Standard FCA

| ORDER EXAMPLE | FCA CODE | A=100 | B=60 |
|---|---|---|---|
| | GRTI_M30 | A100 | B60 |

| FCA CODE | M | Max load (kg) |
|---|---|---|
| GRTI_M30AB | M30 | 1250 |

## SHOCK ABSORBER - HALTEELEMENT - AMMORTIZZATORE






| Notes |
|---|
| **Material:** Elastomer 92 SH |

STOCK

3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| AMM_06380 |

| FCA CODE | COMMODITY CODE | A |
|---|---|---|
| AMM_05070 | 19-001-0072 | 50 |
| AMM_06380 | 19-001-0073 | 63 |

# GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA GUIDA DIN 9833





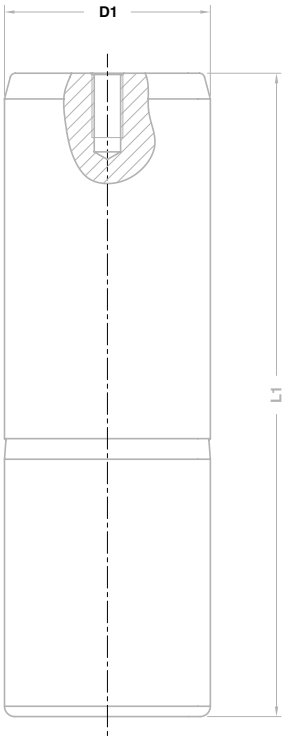
**Notes**

**Material:** 16MnCr5 - **HRC** 60÷62

10

3D

WEB




ORDER EXAMPLE

| FCA CODE |
|---|
| COL_080315_V |

| FCA CODE | COMMODITY CODE | D1 | L1 | FCA CODE | COMMODITY CODE | D1 | L1 |
|---|---|---|---|---|---|---|---|
| COL_080250_V | 19-245-7210 | 80 | 250 | COL_100400_V | 19-245-7416 | 100 | 400 |
| COL_080280_V | 19-245-7211 | 80 | 280 | COL_125355_V | - | 125 | 355 |
| COL_080315_V | 19-245-7212 | 80 | 315 | COL_125400_V | 19-245-7816 | 125 | 400 |
| COL_080355_V | 19-245-7214 | 80 | 355 | COL_125450_V | 19-245-7818 | 125 | 450 |
| COL_100315_V | 19-245-7412 | 100 | 315 | COL_125500_V | 19-245-7820 | 125 | 500 |
| COL_100355_V | 19-245-7414 | 100 | 355 | COL_125550_V | 19-245-7822 | 125 | 550 |

# GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA GUIDA DIN 9833

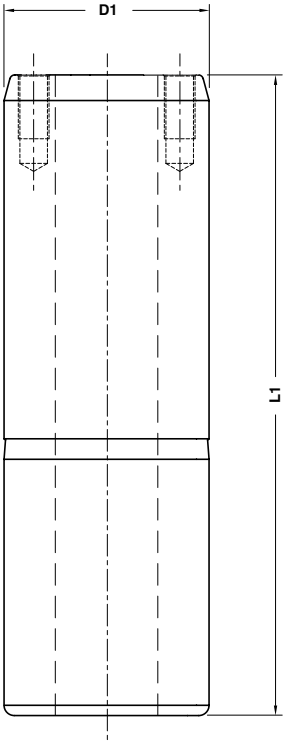
**Notes**

**Material:** 16MnCr5 - **HRC** 60÷62

10

WEB






ORDER EXAMPLE

| FCA CODE |
|---|
| COLH_080280_V |

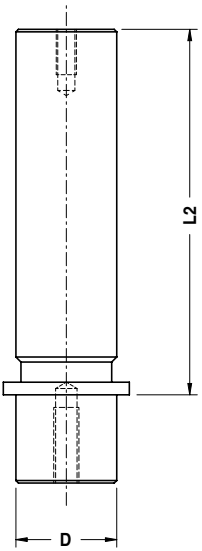
| FCA CODE | COMMODITY CODE | D1 | L1 |
|---|---|---|---|
| COLH_080250_V | 19-245-0034 | 80 | 250 |
| COLH_080280_V | 19-245-0033 | 80 | 280 |
| COLH_080315_V | 19-245-0032 | 80 | 315 |
| COLH_080355_V | 19-245-0031 | 80 | 355 |
| COLH_100315_V | 19-245-0029 | 100 | 315 |
| COLH_100355_V | 19-245-0028 | 100 | 355 |

| FCA CODE | COMMODITY CODE | D1 | L1 |
|---|---|---|---|
| COLH_100400_V | 19-245-0027 | 100 | 400 |
| COLH_125355_V | 19-245-0039 | 125 | 355 |
| COLH_125400_V | 19-245-0038 | 125 | 400 |
| COLH_125450_V | 19-245-0037 | 125 | 450 |
| COLH_125500_V | 19-245-0036 | 125 | 500 |
| COLH_125550_V | 19-245-0035 | 125 | 550 |

OMCR

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5 - **HRC** 60÷62

10 | 3D WEB

Supplied with retainers and screws.
Befestigungsklammern und Schrauben im Lieferumfang enthalten.
Fornite con staffette di fissaggio e viti.

Standard FCA

ORDER EXAMPLE

| FCA CODE |
|---|
| COL_SL_25110 |

| FCA CODE | COMMODITY CODE | D | L2 | FCA CODE | COMMODITY CODE | D | L2 |
|---|---|---|---|---|---|---|---|
| COL_SL_25100 | 19-250-0053 | 25 | 100 | COL_SL_40180 | 19-250-0077 | 40 | 180 |
| COL_SL_25110 | 19-250-0054 | 25 | 110 | COL_SL_40200 | 19-250-0076 | 40 | 200 |
| COL_SL_25120 | 19-250-0055 | 25 | 120 | COL_SL_40220 | 19-250-0075 | 40 | 220 |
| COL_SL_25130 | 19-250-0056 | 25 | 130 | COL_SL_40240 | 19-250-0074 | 40 | 240 |
| COL_SL_25140 | 19-250-0057 | 25 | 140 | COL_SL_50110 | 19-250-0073 | 50 | 110 |
| COL_SL_25160 | 19-250-0058 | 25 | 160 | COL_SL_50120 | 19-250-0072 | 50 | 120 |
| COL_SL_25170 | 19-250-0059 | 25 | 170 | COL_SL_50130 | 19-250-0071 | 50 | 130 |
| COL_SL_25180 | 19-250-0060 | 25 | 180 | COL_SL_50140 | 19-250-0070 | 50 | 140 |
| COL_SL_25200 | 19-250-0061 | 25 | 200 | COL_SL_50160 | 19-250-0069 | 50 | 160 |
| COL_SL_32100 | 19-250-0062 | 32 | 100 | COL_SL_50170 | 19-250-0068 | 50 | 170 |
| COL_SL_32110 | 19-250-0063 | 32 | 110 | COL_SL_50180 | 19-250-0092 | 50 | 180 |
| COL_SL_32120 | 19-250-0064 | 32 | 120 | COL_SL_50200 | 19-250-0091 | 50 | 200 |
| COL_SL_32130 | 19-250-0065 | 32 | 130 | COL_SL_50220 | 19-250-0090 | 50 | 220 |
| COL_SL_32140 | 19-250-0066 | 32 | 140 | COL_SL_50240 | 19-250-0089 | 50 | 240 |
| COL_SL_32160 | 19-250-0067 | 32 | 160 | COL_SL_63130 | 19-250-0100 | 63 | 130 |
| COL_SL_32170 | 19-250-0004 | 32 | 170 | COL_SL_63140 | 19-250-0088 | 63 | 140 |
| COL_SL_32180 | 19-250-0080 | 32 | 180 | COL_SL_63160 | 19-250-0099 | 63 | 160 |
| COL_SL_32200 | 19-250-0081 | 32 | 200 | COL_SL_63170 | 19-250-0098 | 63 | 170 |
| COL_SL_32220 | 19-250-0082 | 32 | 220 | COL_SL_63180 | 19-250-0097 | 63 | 180 |
| COL_SL_32240 | 19-250-0083 | 32 | 240 | COL_SL_63200 | 19-250-0096 | 63 | 200 |
| COL_SL_40110 | 19-250-0084 | 40 | 110 | COL_SL_63220 | 19-250-0095 | 63 | 220 |
| COL_SL_40120 | 19-250-0085 | 40 | 120 | COL_SL_63240 | 19-250-0101 | 63 | 240 |
| COL_SL_40130 | 19-250-0086 | 40 | 130 | COL_SL_80200 | 19-250-0094 | 80 | 200 |
| COL_SL_40140 | 19-250-0079 | 40 | 140 | COL_SL_80220 | 19-250-0093 | 80 | 220 |
| COL_SL_40160 | 19-250-0087 | 40 | 160 | COL_SL_80240 | 19-250-0102 | 80 | 240 |
| COL_SL_40170 | 19-250-0078 | 40 | 170 | | | | |

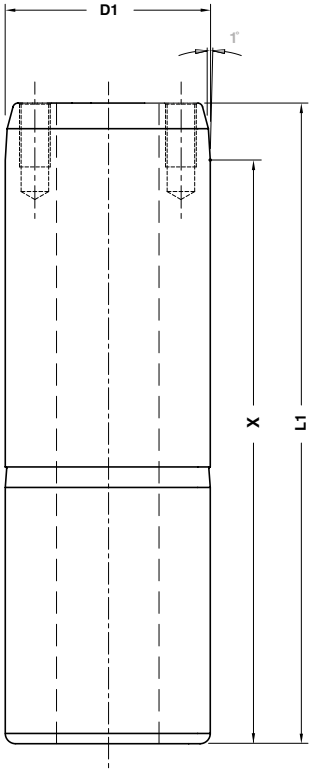
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

**Notes**

**Material:** 16MnCr5 - **HRC** 60÷62

WEB






| ORDER EXAMPLE | FCA CODE |
|---|---|
| | COLH100355_T |

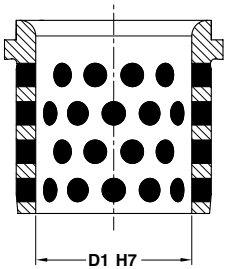
| FCA CODE | D1 | L1 | X |
|---|---|---|---|
| COLH100315_T | 100 | 315 | 250 |
| COLH100355_T | 100 | 355 | 290 |

## 065.90.85

OMCR

### BUSH SELF-LUBRICATING DIN 9834
### FÜHRUNGSBUCHSE DIN 9834
### BOCCOLA AUTOLUBRIFICANTE DIN 9834






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK | WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| BOC_032050_V |

| FCA CODE | COMMODITY CODE | D1 |
|---|---|---|
| BOC_025040_V | 19-029-0023 | 25 |
| BOC_032050_V | 19-029-0024 | 32 |
| BOC_040063_V | 19-029-0025 | 40 |
| BOC_050071_V | 19-029-0026 | 50 |
| BOC_063080_V | 19-029-0029 | 63 |
| BOC_080100_V | 19-029-0027 | 80 |
| BOC_100125_V | 19-029-0028 | 100 |
| BOC_125160_V | 19-029-0030 | 125 |

## 065.90.90

OMCR

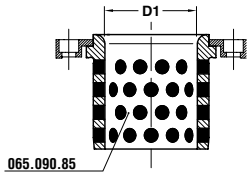
### TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



**Notes**

**Material:** CK45

**Application example**




STOCK | WEB

ORDER EXAMPLE

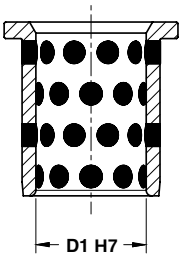
| FCA CODE |
|---|
| RIT_323216 |

| FCA CODE | COMMODITY CODE | D1 |
|---|---|---|
| RIT_202010 | 19-010-0106 | 25÷50 |
| RIT_323216 | 19-010-0105 | 63÷160 |

## 065.90.96

### BUSH SELF LUBRICATING - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE






**Notes**

**Material:** Bronze + Graphite
**HB** >190

STOCK | 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| BO_PR_50_H7 |

| FCA CODE | D1 |
|---|---|
| BO_PR_25_H7 | 25 |
| BO_PR_32_H7 | 32 |
| BO_PR_40_H7 | 40 |
| BO_PR_50_H7 | 50 |
| BO_PR_63_H7 | 63 |
| BO_PR_80_H7 | 80 |
| BO_PR_100_H7 | 100 |
| BO_PR_125_H7 | 125 |

## 065.90.102

### TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA

**Notes**

**Material:** CK45

STOCK | 3D WEB

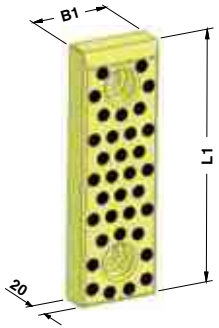


ORDER EXAMPLE

| COMMODITY CODE |
|---|
| 19-029-0100 |

| COMMODITY CODE |
|---|
| 19-029-0100 |

# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357




FORM A

**Notes**

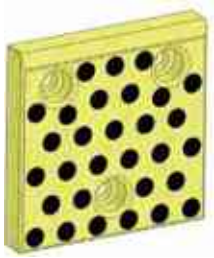
**Material:** Bronze + Graphite - **HB** >190

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK | 3D WEB



FORM B



FORM C



FORM D

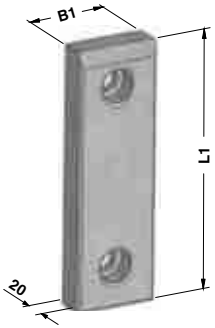
ORDER EXAMPLE

| FCA CODE |
|---|
| PBR_05020100 |

| FCA CODE | COMMODITY CODE | B1 | L1 | FORM |
|---|---|---|---|---|
| PBR_05020080 | 19-290-0069 | 50 | 80 | A |
| PBR_05020100 | 19-290-3204 | 50 | 100 | A |
| PBR_05020125 | 19-290-3205 | 50 | 125 | A |
| PBR_05020160 | 19-290-3206 | 50 | 160 | A |
| PBR_05020200 | 19-290-3208 | 50 | 200 | A |
| PBR_08020050 | 19-290-0067 | 80 | 50 | B |
| PBR_08020080 | 19-290-0066 | 80 | 80 | A |
| PBR_08020100 | 19-290-3304 | 80 | 100 | A |
| PBR_08020125 | 19-290-3305 | 80 | 125 | A |
| PBR_08020160 | 19-290-3306 | 80 | 160 | A |
| PBR_08020200 | 19-290-3308 | 80 | 200 | A |
| PBR_10020050 | 19-290-3402 | 100 | 50 | B |
| PBR_10020080 | 19-290-3403 | 100 | 80 | B |
| PBR_10020100 | 19-290-3404 | 100 | 100 | A |
| PBR_10020125 | 19-290-3405 | 100 | 125 | A |
| PBR_10020160 | 19-290-3406 | 100 | 160 | A |
| PBR_10020200 | 19-290-3408 | 100 | 200 | A |
| PBR_10020250 | - | 100 | 250 | A |

| FCA CODE | COMMODITY CODE | B1 | L1 | FORM |
|---|---|---|---|---|
| PBR_10020315 | - | 100 | 315 | A |
| PBR_12520050 | 19-290-0071 | 125 | 50 | B |
| PBR_12520080 | 19-290-3503 | 125 | 80 | B |
| PBR_12520100 | 19-290-3504 | 125 | 100 | C |
| PBR_12520125 | 19-290-3505 | 125 | 125 | C |
| PBR_12520160 | 19-290-3506 | 125 | 160 | C |
| PBR_12520200 | 19-290-3508 | 125 | 200 | C |
| PBR_12520250 | - | 125 | 250 | C |
| PBR_12520315 | - | 125 | 315 | C |
| PBR_16020050 | 19-290-0075 | 160 | 50 | C |
| PBR_16020080 | 19-290-0073 | 160 | 80 | C |
| PBR_16020100 | 19-290-3604 | 160 | 100 | C |
| PBR_16020125 | 19-290-3605 | 160 | 125 | C |
| PBR_16020160 | 19-290-3606 | 160 | 160 | C |
| PBR_16020200 | 19-290-3608 | 160 | 200 | C |
| PBR_16020250 | - | 160 | 250 | D |
| PBR_16020315 | - | 160 | 315 | D |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357




FORM A

**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷62

STOCK

WEB



FORM B



FORM C



FORM D

ORDER EXAMPLE

| FCA CODE |
|---|
| PAC_05020100 |

| FCA CODE | COMMODITY CODE | B1 | L1 | FORM | FCA CODE | COMMODITY CODE | B1 | L1 | FORM |
|---|---|---|---|---|---|---|---|---|---|
| PAC_05020080 | 19-290-0070 | 50 | 80 | A | PAC_10020315 | - | 100 | 315 | A |
| PAC_05020100 | 19-290-4204 | 50 | 100 | A | PAC_12520050 | 19-290-0072 | 125 | 50 | B |
| PAC_05020125 | 19-290-4205 | 50 | 125 | A | PAC_12520080 | 19-290-4503 | 125 | 80 | B |
| PAC_05020160 | 19-290-4206 | 50 | 160 | A | PAC_12520100 | 19-290-4504 | 125 | 100 | C |
| PAC_05020200 | 19-290-4208 | 50 | 200 | A | PAC_12520125 | 19-290-4505 | 125 | 125 | C |
| PAC_08020050 | 19-290-0068 | 80 | 50 | B | PAC_12520160 | 19-290-4506 | 125 | 160 | C |
| PAC_08020080 | 19-290-0065 | 80 | 80 | A | PAC_12520200 | 19-290-4508 | 125 | 200 | C |
| PAC_08020100 | 19-290-4304 | 80 | 100 | A | PAC_12520250 | - | 125 | 250 | C |
| PAC_08020125 | 19-290-4305 | 80 | 125 | A | PAC_12520315 | - | 125 | 315 | C |
| PAC_08020160 | 19-290-4306 | 80 | 160 | A | PAC_16020050 | 19-290-0076 | 160 | 50 | C |
| PAC_08020200 | 19-290-4308 | 80 | 200 | A | PAC_16020080 | 19-290-0074 | 160 | 80 | C |
| PAC_10020050 | 19-290-4402 | 100 | 50 | B | PAC_16020100 | 19-290-4604 | 160 | 100 | C |
| PAC_10020080 | 19-290-4403 | 100 | 80 | B | PAC_16020125 | 19-290-4605 | 160 | 125 | C |
| PAC_10020100 | 19-290-4404 | 100 | 100 | A | PAC_16020160 | 19-290-4606 | 160 | 160 | C |
| PAC_10020125 | 19-290-4405 | 100 | 125 | A | PAC_16020200 | 19-290-4608 | 160 | 200 | C |
| PAC_10020160 | 19-290-4406 | 100 | 160 | A | PAC_16020250 | - | 160 | 250 | D |
| PAC_10020200 | 19-290-4408 | 100 | 200 | A | PAC_16020315 | - | 160 | 315 | D |
| PAC_10020250 | - | 100 | 250 | A | | | | | |

# DISTANCE PLATE FOR WEAR PLATE
# HÖHENAUSGLEICH FÜR GLEITPLATTE
# DISTANZIALE PER PIASTRA

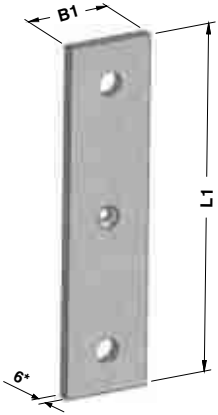
* Provided 0,5 mm plus for adjustment
wird mit 0,5 mm Aufmaß geliefert, zur Anpassung am Werkzeug
Fornita maggiorata di 0,5 mm per adattamento su stampo

**Notes**

**Material:** St37

STOCK 3D WEB






**FORM A**



**FORM B**



**FORM C**



**FORM D**

ORDER EXAMPLE

| FCA CODE |
|---|
| PSP_08006050 |

| FCA CODE | B1 | L1 | FORM |
|---|---|---|---|
| PSP_05006200 | 48 | 198 | A |
| PSP_08006050 | 78 | 48 | B |
| PSP_08006080 | 78 | 78 | A |
| PSP_08006100 | 78 | 98 | A |
| PSP_08006125 | 78 | 123 | A |
| PSP_08006160 | 78 | 158 | A |
| PSP_08006200 | 78 | 198 | A |
| PSP_10006050 | 98 | 48 | B |
| PSP_10006100 | 98 | 98 | A |
| PSP_10006125 | 98 | 123 | A |

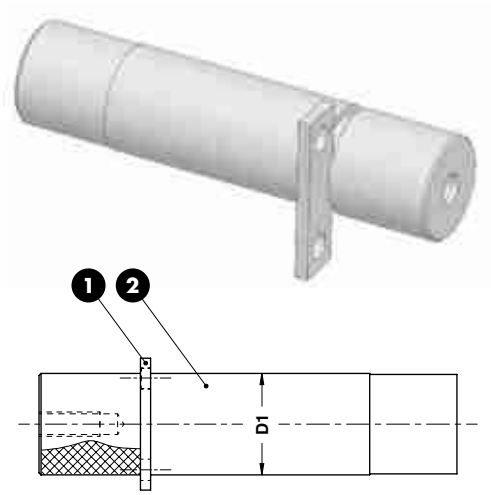
| FCA CODE | B1 | L1 | FORM |
|---|---|---|---|
| PSP_10006160 | 98 | 158 | A |
| PSP_10006200 | 98 | 198 | A |
| PSP_10006250 | 98 | 248 | A |
| PSP_10006315 | 98 | 313 | A |
| PSP_12506050 | 123 | 48 | B |
| PSP_12506100 | 123 | 98 | C |
| PSP_12506125 | 123 | 123 | C |
| PSP_12506160 | 123 | 158 | C |
| PSP_12506200 | 123 | 198 | C |
| PSP_12506250 | 123 | 248 | C |

| FCA CODE | B1 | L1 | FORM |
|---|---|---|---|
| PSP_12506315 | 123 | 313 | C |
| PSP_16006050 | 158 | 48 | B |
| PSP_16006100 | 158 | 98 | C |
| PSP_16006125 | 158 | 123 | C |
| PSP_16006160 | 158 | 158 | C |
| PSP_16006200 | 158 | 198 | C |
| PSP_16006250 | 158 | 248 | D |
| PSP_16006315 | 158 | 313 | D |

## 065.90.130

OMCR

### PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO




**Notes**

1. **Material:** St37
2. **Material:** 36CrNiMo4

Screws not included

STOCK ... 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | PRN_050206 |

| FCA CODE | COMMODITY CODE | D1 |
|---|---|---|
| PRN_040172 | 19-010-0098 | 40 |
| PRN_050206 | 19-010-0097 | 50 |
| - | 19-010-0101 | 63 |

## 065.90.190

OMCR

### LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO




**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

STOCK 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | PDC_04055 |

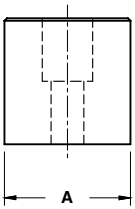
| FCA CODE | COMMODITY CODE |
|---|---|
| PDC_04055 | 19-010-0104 |

## 065.90.195

OMCR

### BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| DST_090050 |

| FCA CODE | COMMODITY CODE | A |
|---|---|---|
| DST_050050 | 19-010-0102 | 50 |
| DST_090050 | 19-010-0103 | 90 |

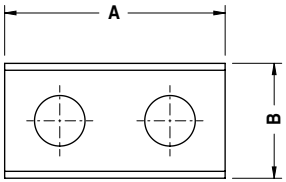
## 065.90.200

OMCR

### GUIDE PIN RETAINER PLATE - SICHERUNGSPLATTE - RITEGNO PER COLONNA



**FORM A**






**FORM B**

**Notes**

**Material:** CK45

STOCK 3D WEB

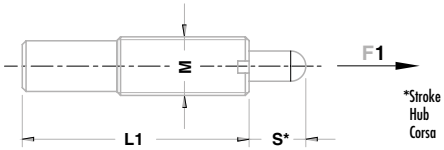
ORDER EXAMPLE

| FCA CODE |
|---|
| 19-010-0205 |

| FCA CODE | A | B | FORM |
|---|---|---|---|
| 19-010-0204 | 40 | 20 | A |
| 19-010-0205 | 48 | 25 | A |
| 19-010-0206 | 60 | 34 | A |
| 19-010-0251 | 80 | 57 | B |

## SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA









**Notes**

**Material:** Steel

STOCK 3D WEB

Spring plungers can be fitted/removed by means of the slot or internal hexagon.

Montage/demontage mit Innensechskant und Schlitz möglich.

Il montaggio/smontaggio avviene sia tramite l'esagono incassato, che tramite l'intaglio frontale.

ORDER EXAMPLE

| FCA CODE |
|---|
| ESP_H_M1615 |

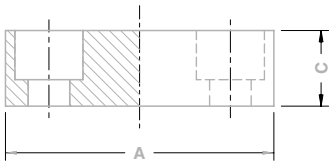
| FCA CODE | COMMODITY CODE | M | L1 | S | F1 (N/mm²) | F2 (N/mm²) |
|---|---|---|---|---|---|---|
| ESP_H_M1210 | 42-497-0104 | M12 | 45 | 10 | 7 | 40 |
| ESP_H_M1615 | 42-497-0220 | M16 | 60 | 15 | 15 | 80 |
| ESP_H_M1630 | 42-497-0093 | M16 | 125 | 30 | 20 | 80 |

## 075.90.110

OMCR

### PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE






**Notes**

**Material:** 90MnCrV8 - **HRC:** 50÷52

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| RE_565620_Q |

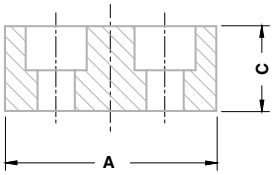
| FCA CODE | COMMODITY CODE | A | C |
|---|---|---|---|
| RE_404015_Q | 19-010-0151 | 40 | 15 |
| RE_565620_Q | 19-010-0154 | 56 | 20 |
| RE_717120_Q | 19-010-0153 | 71 | 20 |
| RE_909020_Q | 19-010-0152 | 90 | 20 |
| RE_14014020_Q | 19-010-0150 | 140 | 20 |

## 075.90.115

OMCR

### PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE






**Notes**

**Material:** 90MnCrV8 - **HRC:** 50÷52

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| RE_70SP20_C |

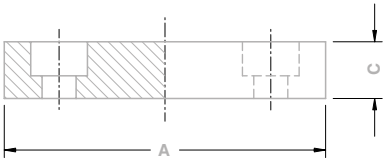
| FCA CODE | COMMODITY CODE | A | C |
|---|---|---|---|
| RE_50SP15_C | 19-010-0155 | 50 | 15 |
| RE_70SP20_C | 19-010-0149 | 70 | 20 |
| RE_94SP20_C | 19-010-0148 | 94 | 20 |

## 075.90.120

OMCR

### PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE




**Notes**

**Material:** 90MnCrV8 - **HRC:** 50÷52

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| RE_553012_R |

| FCA CODE | COMMODITY CODE | A | B | C |
|---|---|---|---|---|
| RE_502512_R | 19-010-0147 | 50 | 25 | 12 |
| RE_503012_R | 19-010-0144 | 50 | 30 | 12 |
| RE_703515_R | 19-010-0146 | 70 | 35 | 15 |
| RE_755015_R | 19-010-0143 | 75 | 50 | 15 |
| RE_856015_R | 19-010-0142 | 85 | 60 | 15 |
| RE_1008020_R | 19-010-0141 | 100 | 80 | 20 |
| RE_11010020_R | 19-010-0139 | 110 | 100 | 20 |

## 080.90.60

OMCR

### CLAMP - BEFESTIGUNGSELEMENT - MORSETTO




**Notes**

1. **Material:** CK45
2. M12x70 DIN 931

STOCK ... 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| MOR_025080100 |

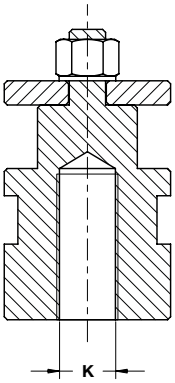
| FCA CODE |
|---|
| MOR_025080100 |

## 080.90.65

OMCR

### UNION NUT - BEFESTIGUNGSELEMEN - DADO DI UNIONE






**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| DU_M20_2B |

| FCA CODE | K |
|---|---|
| DU_M16_2A | M16x1,5 |
| DU_M20_2B | M20x1,5 |
| DU_M27_2C | M27x2 |

## 080.90.70

OMCR

### UNION NUT - BEFESTIGUNGSELEMEN - DADO DI UNIONE



**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| DU_025045 |

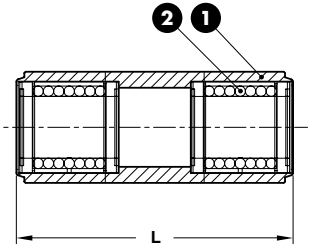
| FCA CODE |
|---|
| DU_025045 |

## 080.90.75

OMCR

### SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA






**Notes**

1. **Material:** CK45
2. **Material:** STAR 0658-225-40

STOCK ... 3D WEB

ORDER EXAMPLE

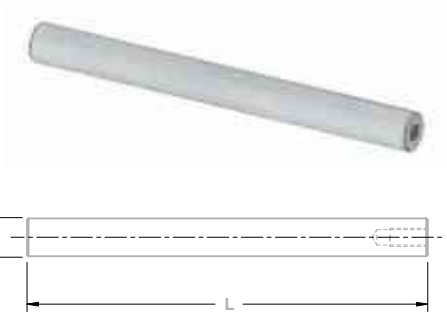
| FCA CODE |
|---|
| BOC_025200_4B |

| FCA CODE | L |
|---|---|
| BOC_025112_4A | 230 |
| BOC_025200_4B | 315 |

## 080.90.80

OMCR

### GUIDE POST - FÜHRUNGSSAULE - COLONNA PER TRALICCIO




**Notes**

**Material:** CK45 - **HRC:** 56÷58

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| COL_025315_3B |

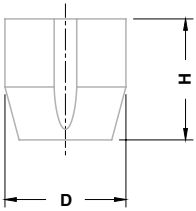
| FCA CODE | L |
|---|---|
| COL_025230_3A | 230 |
| COL_025315_3B | 315 |
| COL_025365_3C | 365 |
| COL_025415_3D | 415 |
| COL_025465_3E | 465 |

## 080.90.90

OMCR

### ELASTOMER CAP - ELASTOMERDRUCKSTÜK - PUNTALINO ELASTICO






**Notes**

**Material:** Urelast 92 SH

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| PU_EL_10 |

| FCA CODE | D | H | F max (N) |
|---|---|---|---|
| PU_EL_06 | 6 | 9,5 | 100 |
| PU_EL_10 | 10 | 15,5 | 450 |
| PU_EL_16 | 16 | 25 | 1500 |
| PU_EL_24 | 24 | 25 | 3000 |

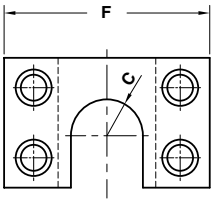
| FCA CODE | D | H | F max (N) |
|---|---|---|---|
| PU_EL_30 | 30 | 35 | 3000 |
| PU_EL_32 | 32 | 32 | 12000 |
| PU_EL_39,5 | 39,5 | 40 | 25000 |

## 085.90.135

OMCR

### COUPLING PLATE – BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE






**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| FO_NO_4740 |

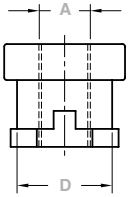
| FCA CODE | COMMODITY CODE | F | C |
|---|---|---|---|
| FO_NO_3530 | 19-010-2360 | 80 | 14 |
| FO_NO_4740 | 19-010-2365 | 100 | 20 |
| FO_NO_5750 | 19-010-2370 | 120 | 25 |
| N/A | 19-010-2375 | 150 | 33 |

## 085.90.140

OMCR

### COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIO STAFFA






**Notes**

**Material:** CK45

STOCK 3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| NO_3530M12 |

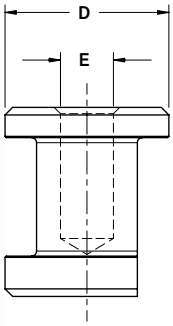
| FCA CODE | COMMODITY CODE | D | A |
|---|---|---|---|
| **NO_3530M10** | 39-295-0032 | 25 | M10 x 1,25 |
| **NO_3530M12** | 39-295-0031 | 25 | M12 x 1,25 |
| **NO_4740M16** | 39-295-0029 | 37 | M16 x 1,5 |
| **NO_4740M20** | 39-811-0667 | 37 | M20 x 1,5 |
| **NO_5750M27** | 39-811-0416 | 47 | M27 x 2 |
| **NO_5750M36** | 39-811-0455 | 47 | M36 x 2 |
| **N/A** | 39-295-0033 | 59 | M42 x 2 |

## 095.90.10

OMCR

### THREADED STEEL INSERT - GEWINDEEINSATZ AUS STAHL - INSERTO FILETTATO IN ACCIAIO






**Notes**

**Material:** 42CrMo4

STOCK 3D WEB

ORDER EXAMPLE

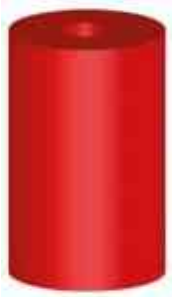
| COMMODITY CODE |
|---|
| 19-235-0148 |

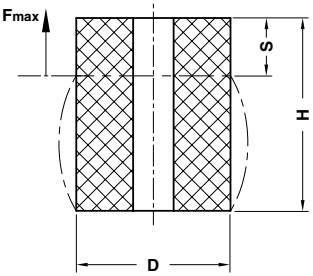
| COMMODITY CODE | Max load 1 point (kg) | Max load 2÷4 point (kg) | D | E | COMMODITY CODE | Max load 1 point (kg) | Max load 2÷4 point (kg) | D | E |
|---|---|---|---|---|---|---|---|---|---|
| **19-235-0149** | 2800 | 5600 | 65 | M22 x 2,5 | **19-235-0146** | 6500 | 13000 | 107 | M36 x 4,0 |
| **19-235-0148** | 3000 | 6000 | 65 | M24 x 3,0 | **19-235-0145** | 7200 | 14400 | 107 | M42 x 4,5 |
| **19-235-0147** | 5000 | 10000 | 85 | M30 x 3,5 | | | | | |

# 095.90.20

OMCR

## ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO






**Notes**

**Material:** Elastomer 92SH

S = max. 30% H

STOCK

3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| MOL_080080 |

| FCA CODE | D | H | S | Fmax (N) |
|---|---|---|---|---|
| MOL_063100 | 63 | 100 | 30 | 2600 |
| MOL_080080 | 80 | 80 | 24 | 4300 |
| MOL_080100 | 80 | 100 | 30 | 4300 |
| MOL_080125 | 80 | 125 | 37,5 | 4300 |

| FCA CODE | D | H | S | Fmax (N) |
|---|---|---|---|---|
| MOL_100080 | 100 | 80 | 24 | 5900 |
| MOL_100100 | 100 | 100 | 30 | 5900 |
| MOL_100125 | 100 | 125 | 37,5 | 5900 |
| MOL_125100 | 125 | 100 | 30 | 9900 |

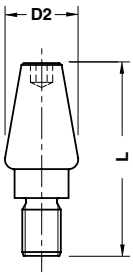
| FCA CODE | D | H | S | Fmax (N) |
|---|---|---|---|---|
| MOL_125125 | 125 | 125 | 37,5 | 9900 |
| MOL_125160 | 125 | 160 | 48 | 9900 |
| | | | | |
| | | | | |

# 095.90.25

OMCR

## ELASTOMER SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE IN ELASTOMERO





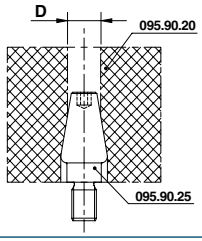

STOCK

3D WEB

**Notes**

**Material:** CK45

**Application example**




ORDER EXAMPLE

| FCA CODE |
|---|
| PRN_MO_M16 |

| FCA CODE | D | D2 | L |
|---|---|---|---|
| PRN_MO_M12 | 63÷80 | 28 | 56 |
| PRN_MO_M16 | 100 | 32 | 74 |
| PRN_MO_M20 | 125 | 38 | 100 |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

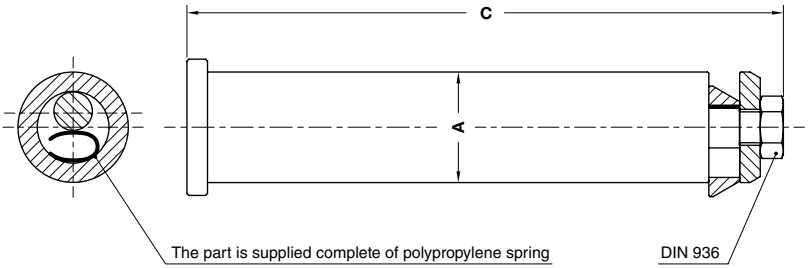
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

### Notes

**Material:** 42CrMo4 + QT

CE STOCK 3D WEB




ORDER EXAMPLE

| FCA CODE |
|---|
| SOL_KG7000_HL |

| FCA CODE | COMMODITY CODE | Max load (kg) | Max die weight (kg) | C | A |
|---|---|---|---|---|---|
| SOL_KG4000_HL | - | 4000 | 8000 | 178,5 | 29 |
| SOL_KG7000_HL | - | 7000 | 14000 | 200,5 | 33 |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO





Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

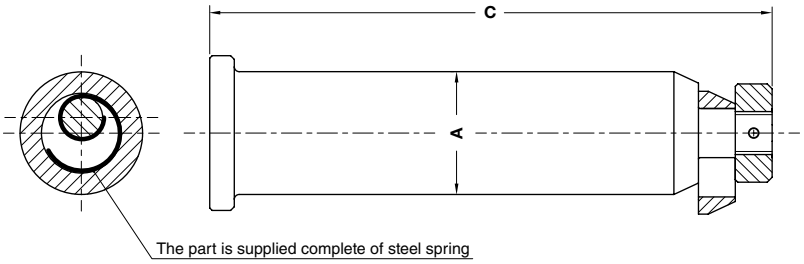
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

### Notes

**Material:** 42CrMo4 + QT

CE STOCK 3D WEB




ORDER EXAMPLE

| COMMODOTY CODE |
|---|
| 19-255-0252 |

| FCA CODE | COMMODITY CODE | Max load (kg) | Max die weight (kg) | C | A |
|---|---|---|---|---|---|
| - | **19-255-0200** | 10000 | 20000 | 230 | 50 |
| - | **19-255-0252** | 20000 | 40000 | 320 | 63 |
| - | **19-255-0320** | 40000 | 80000 | 370 | 80 |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

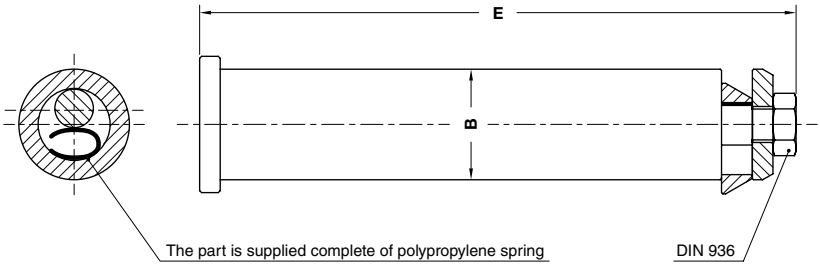
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

### Notes

**Material:** 42CrMo4 + QT

CE STOCK 3D WEB



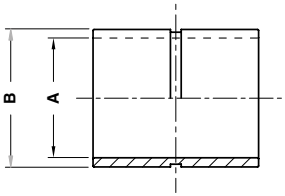

ORDER EXAMPLE

| FCA CODE |
|---|
| SOL_KG26000_T_HL |

| FCA CODE | Max load (kg) | Max die weight (kg) | E | B |
|---|---|---|---|---|
| SOL_KG16000_T_HL | 16000 | 32000 | 227 | 53 |
| SOL_KG26000_T_HL | 26000 | 52000 | 272,5 | 63 |

# BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO






**Notes**

**Material:** St35

STOCK

3D WEB



ORDER EXAMPLE

| COMMODITY CODE |
|---|
| 19-232-0252 |

| COMMODITY CODE | A | B |
|---|---|---|
| **19-232-0200** | 52,4 | 60,33 |
| **19-232-0252** | 65,10 | 73,03 |
| **19-232-0320** | 82,50 | 92,08 |

# LIFTING BRACKET WITH LIFTING BOLT
# TRAGWANGE MIT TRAGBOLZEN MIT FALLRINGSICHERUNG
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO




**FORM A**



**FORM B**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1 **Material:** CK45 - 800÷1000 N/mm²

2 **Material:** CK45

Screws not included

CE STOCK ... WEB

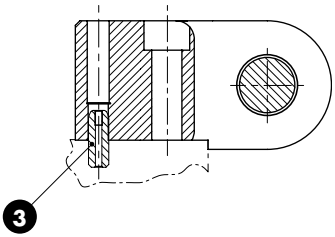
ORDER EXAMPLE

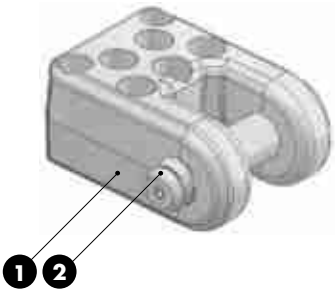
| FCA CODE |
|---|
| GR_ST_KG1000 |

| FCA CODE | Max load (kg) | Max die weight (kg) | FORM | LIFTING BRACKET | LIFTING BOLT |
|---|---|---|---|---|---|
| GR_ST_KG600 | 600 | 1200 | A | ST_KG600_S | ST_KG600_P |
| GR_ST_KG1000 | 1000 | 2000 | A | ST_KG1000_S | ST_KG1000_P |
| GR_ST_KG2000 | 2000 | 4000 | A | ST_KG2000_S | ST_KG2000_P |
| GR_ST_KG4000 | 4000 | 8000 | B | ST_KG4000_S | ST_KG4000_P |
| GR_ST_KG7000 | 7000 | 14000 | B | ST_KG7000_S | ST_KG7000_P |

# LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CENTRAGGI






Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. **Material:** CK45
3. **Material:** 16MnCr5 - **HRC:** 58÷60

Screws not included

CE STOCK ... WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| ST_KG12500 |

| FCA CODE | Max load (kg) | Max die weight (kg) | LIFTING BRACKET | LIFTING BOLT |
|---|---|---|---|---|
| ST_KG12500 | 12500 | 25000 | ST_KG12500_S | ST_KG12500_P |

# REPLACEMENT LIFTING PIN FOR LIFTING BRACKET
# ERSATZTRAGBOLZEN FÜR TRAGWANGE
# PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

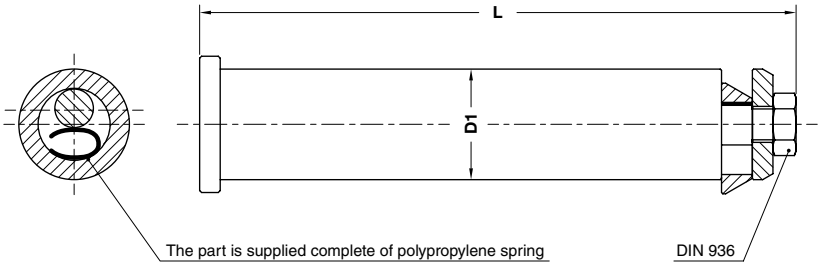
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

## Notes

**Material:** CK45

CE STOCK 3D WEB




ORDER EXAMPLE

| FCA CODE |
|---|
| ST_KG1000_P |

| FCA CODE | Max load (kg) | Max die weight (kg) | L | D1 |
|---|---|---|---|---|
| ST_KG600_P | 600 | 1200 | 102,5 | 15,6 |
| ST_KG1000_P | 1000 | 2000 | 113,5 | 20,6 |
| ST_KG2000_P | 2000 | 4000 | 128,5 | 25,6 |
| ST_KG4000_P | 4000 | 8000 | 166,5 | 33 |
| ST_KG7000_P | 7000 | 14000 | 210,5 | 43 |

# REPLACEMENT LIFTING PIN FOR LIFTING BRACKET
# ERSATZTRAGBOLZEN FÜR TRAGWANGE
# PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO





Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

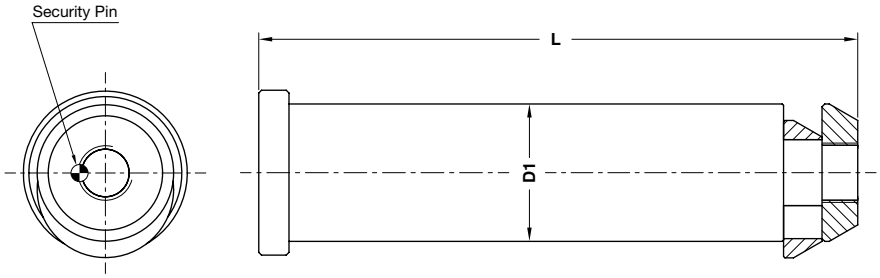
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

## Notes

**Material:** CK45

CE STOCK 3D WEB




ORDER EXAMPLE

| FCA CODE |
|---|
| ST_KG12500_P |

| FCA CODE | Max load (kg) | Max die weight (kg) | L | D1 |
|---|---|---|---|---|
| ST_KG12500_P | 12500 | 25000 | 246 | 60 |

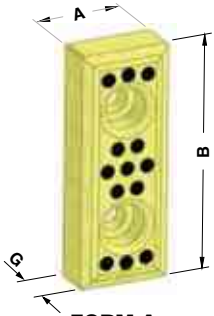
# WEAR PLATE SELF-LUBRICATING
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA AUTOLUBRIFICANTE

**Notes**

**Material:** Bronze + Graphite -

Only for replacement
Nur für Reparatur
Solo per riparazione

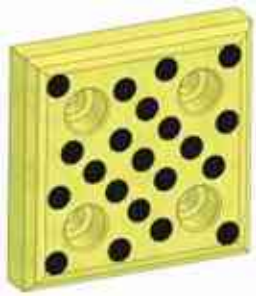
STOCK | WEB




**FORM A**



**FORM B**



**FORM C**



**FORM D**



**FORM E**

ORDER EXAMPLE

| FCA CODE |
|---|
| BR2 |

| FCA CODE | A | B | G | FORM |
|---|---|---|---|---|
| BR1 | 38 | 100 | 20 | A |
| BR2 | 38 | 150 | 20 | A |
| BR3 | 75 | 100 | 20 | B |
| BR4 | 75 | 150 | 20 | A |
| BR5 | 100 | 100 | 20 | C |

| FCA CODE | A | B | G | FORM |
|---|---|---|---|---|
| BR6 | 100 | 150 | 20 | C |
| BR10 | 100 | 75 | 18 | D |
| BR11 | 125 | 100 | 25 | E |
| BR12 | 150 | 125 | 25 | E |

# WEAR PLATE STEEL
# GLEITPLATTE STAHL
# PIASTRA GUIDA IN ACCIAIO

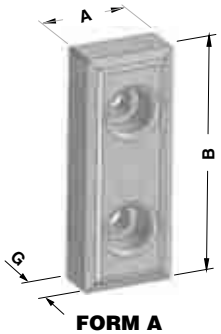
**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK | WEB






FORM A



FORM B



FORM C



FORM D



FORM E

ORDER EXAMPLE

| FCA CODE |
|---|
| ACC2 |

| FCA CODE | A | B | G | FORM |
|---|---|---|---|---|
| ACC1 | 38 | 100 | 20 | A |
| ACC2 | 38 | 150 | 20 | A |
| ACC3 | 75 | 100 | 20 | B |
| ACC4 | 75 | 150 | 20 | A |
| ACC5 | 100 | 100 | 20 | C |

| FCA CODE | A | B | G | FORM |
|---|---|---|---|---|
| ACC6 | 100 | 150 | 20 | C |
| ACC10 | 100 | 75 | 18 | D |
| ACC11 | 125 | 100 | 25 | E |
| ACC12 | 150 | 125 | 25 | E |

# STQ 10012

## DISTANCE PLATE FOR WEAR PLATE
## HÖHENAUSGLEICH FÜR GLEITPLATTE
## DISTANZIALE PER PIASTRA GUIDA

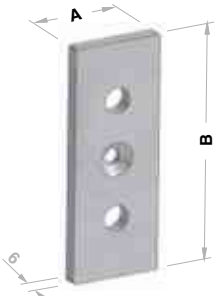
**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

3D WEB




**FORM A**



**FORM B**



**FORM C**

ORDER EXAMPLE

| FCA CODE |
|---|
| TIPO 2-S-B |

| FCA CODE | A | B | FORM |
|---|---|---|---|
| TIPO 1-S-B | 38 | 100 | A |
| TIPO 2-S-B | 38 | 150 | A |
| TIPO 3-S-B | 75 | 100 | B |
| TIPO 4-S-B | 75 | 150 | A |
| TIPO 5-S-B | 100 | 100 | C |

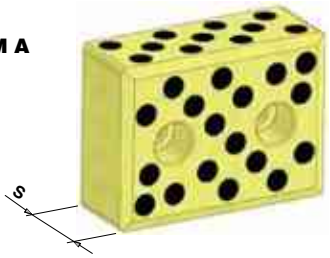
| FCA CODE | A | B | FORM |
|---|---|---|---|
| TIPO 6-S-B | 100 | 150 | C |
| TIPO 10-S-B | 100 | 75 | B |
| TIPO 11-S-B | 125 | 100 | C |
| TIPO 12-S-B | 150 | 125 | C |

# STQ 10012

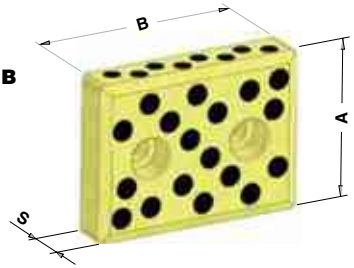
OMCR

## GUIDE BAR SELF-LUBRICATING
## FÜHRUNGSLEITE BRONZE MIT FESTSCHMIERSTOFF
## LARDONE AUTOLUBRIFICANTE

**FORM A**




**FORM B**




**Notes**

**Material:** Bronze + Graphite -
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK ⟺ 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | BR31 |

| FCA CODE | A | B | S | FORM |
|---|---|---|---|---|
| BR30 | 48 | 100 | 20 | B |
| BR31 | 48 | 150 | 20 | B |
| BR32 | 75 | 100 | 20 | B |
| BR33 | 75 | 150 | 20 | B |
| BR7 | 75 | 100 | 38 | A |
| BR8 | 75 | 150 | 38 | A |



# STQ 10012

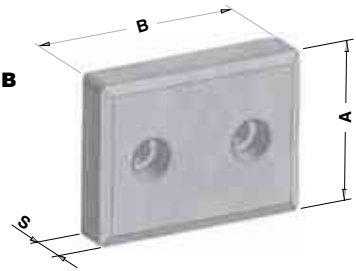
OMCR

## GUIDE BAR STEEL
## FÜHRUNGSLEITE STAHL
## LARDONE IN ACCIAIO

**FORM A**




**FORM B**




**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60
Only for replacement
Nur für Reparatur
Solo per riparazione

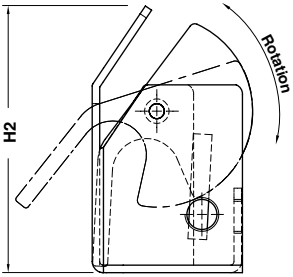
STOCK ⟺ 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | ACC31 |

| FCA CODE | A | B | S | FORM |
|---|---|---|---|---|
| ACC30 | 48 | 100 | 20 | B |
| ACC31 | 48 | 150 | 20 | B |
| ACC32 | 75 | 100 | 20 | B |
| ACC33 | 75 | 150 | 20 | B |
| ACC7 | 75 | 100 | 38 | A |
| ACC8 | 75 | 150 | 38 | A |

## FRONT GAGE - EINLAUFANSCHLAG - PORTASENSORE






**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

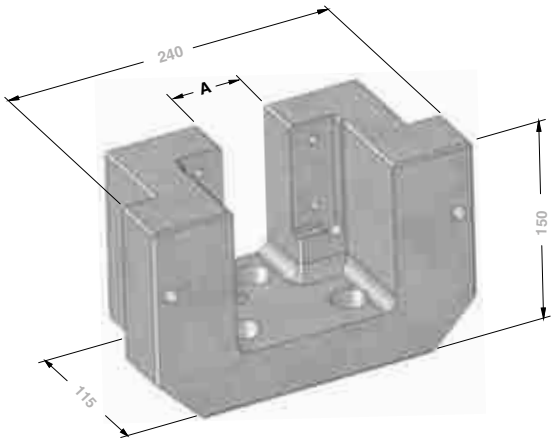
STOCK 3D WEB

ORDER EXAMPLE

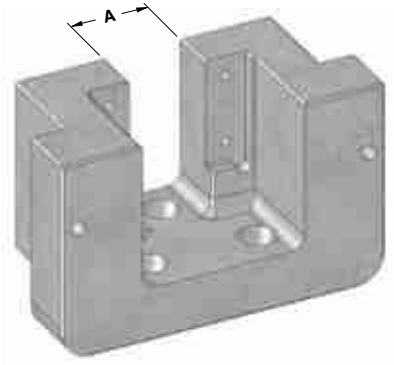
| FCA CODE |
|---|
| RIF_M18L150 |

| FCA CODE | H2 |
|---|---|
| RIF_M18L120 | 117 |
| RIF_M18L150 | 142 |
| RIF_M18L180 | 192 |

## BRACKET FOR CLAMPS - KLAMMERN FÜR CLAMPS - STAFFE PER CLAMPS




**ST_S01**



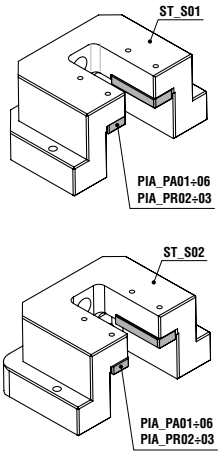

**ST_S02**

### Notes

**Material:** 36CrNiMo4
950 ÷1000 N/mm²

STOCK | 3D WEB

### Application example*




* See STD 10062
Sehen STD 10062
Vedi STD 10062

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | ST_S02 |

| FCA CODE | A |
|---|---|
| ST_S01 | 51 |
| ST_S02 | 56 |

# STQ 40005

OMCR

## PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE

| Notes |
| --- |
| **Material:** 36CrNiMo4 - **HRC:** 50÷52 |

STOCK | 3D WEB



| ORDER EXAMPLE | FCA CODE |
| --- | --- |
| | PIA_PA01 |

| FCA CODE |
| --- |
| PIA_PA01 |


# STQ 40005

OMCR

## PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE

| Notes |
| --- |
| **Material:** 36CrNiMo4 - **HRC:** 50÷52 |

STOCK | 3D WEB



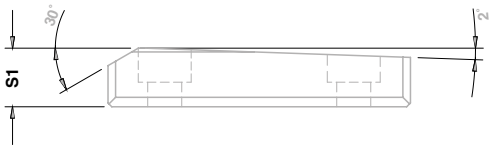

| ORDER EXAMPLE | FCA CODE |
| --- | --- |
| | PIA_PA02 |

| FCA CODE |
| --- |
| PIA_PA02 |

# STQ 40005

OMCR

## PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE






**Notes**

**Material:** 36CrNiMo4 - **HRC:** 50÷52

STOCK | 3D WEB

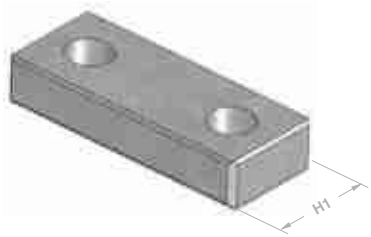
| ORDER EXAMPLE | FCA CODE |
|---|---|
| | PIA_PA05 |

| FCA CODE | S1 |
|---|---|
| PIA_PA05 | 15.5 |
| PIA_PA06 | 20.5 |

# STQ 40005

OMCR

## PLATE FOR BRACKET - HALTESTÜCKE FÜR KLAMMERN - PIASTRINA PER STAFFE




**Notes**

**Material:** 36CrNiMo4 - **HRC:** 50÷52

STOCK | 3D WEB

| ORDER EXAMPLE | FCA CODE |
|---|---|
| | PIA_PR03 |

| FCA CODE | H1 |
|---|---|
| PIA_PR02 | 32.5 |
| PIA_PR03 | 35 |

## STQ 40010

OMCR

### LOCATING - ZENTRIERUNG - CENTRAGGIO STAMPO



| Notes |
|---|
| **Material:** 36CrNiMo4 |

STOCK

3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| CNT_ST_01 |

| FCA CODE |
|---|
| CNT_ST_01 |

## STQ 40011

OMCR

### STOP BLOCK - ANSCHLAG - FINE CORSA DIRITTO E A "V"



CTN_ST_02



CTN_ST_03

| Notes |
|---|
| **Material:** 36CrNiMo4 |

STOCK

3D WEB

ORDER EXAMPLE

| FCA CODE |
|---|
| CTN_ST_03 |

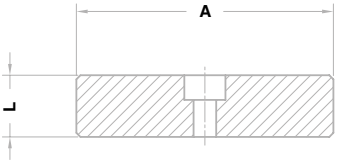
| FCA CODE |
|---|
| CTN_ST_02 |
| CTN_ST_03 |

## STQ 40013

OMCR

### KEY - PASSFEDER - CHIAVETTA DI REAZIONE






STOCK

3D WEB

| Notes |
|---|
| **Material:** CK45 |

ORDER EXAMPLE

| FCA CODE |
|---|
| CH_R_025125 |

| FCA CODE | A | L |
|---|---|---|
| CH_R_025080 | 80 | 25 |
| CH_R_025125 | 125 | 25 |
| CH_R_030080 | 80 | 30 |
| CH_R_030125 | 125 | 30 |
| CH_R_034090 | 90 | 34 |


MCR





# Die Components
# Normalien
# Componenti

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

| WDX3-60-0165 | WDX3-70 0101÷103 | WDX3-70-0201 | WDX3-70-2001-A | WDX3-70-2002-A |
|---|---|---|---|---|
|  |  |  |  |  |
| Stripper for blanking dies<br>Abstreifer fur platinenschnitte<br>Estrattore Per Stampi | Stock Keeper Plate<br>Platte<br>Piastra | Shoulder screw<br>Stift<br>Perno | Coil guide roller<br>Bandführung<br>Guidanastro | Coil guide roller<br>Bandführung<br>Guidanastro |
| 282 | 282 | 283 | 284 | 284 |

| WDX3-70-2101-A | WDX3-80 2401÷2402 | WDX4-70 0301÷0401 | WDX4-70 0501÷0502 | WDX4-70-0801 |
|---|---|---|---|---|
|  |  |  |  |  |
| Coil guide roller<br>Bandführung<br>Guidanastro | Visual locatore setting punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Distance Plate<br>Abstimmscheibe<br>Distanziale | Locating Cone<br>Zentrierbolzen<br>Centraggio |
| 284 | 285 | 285 | 286 | 286 |

| WDX7-60 1101÷1102 | WDX7-60 1701÷1704 | WDX7-60 1802÷1807 | WDX7-65 01075200÷01150450 | WDX7-65 03165150÷03165300 |
|---|---|---|---|---|
|  |  |  |  |  |
| Positive return wear plate<br>Platte<br>Piastra di reazione | Coupling plate<br>Befestigungsplatte<br>Staffa di reazione | Coupling nut<br>Kupplungsmutte<br>Aggancio Staffa | Wear plate steel<br>Deckleiste stahl<br>Piastra Guida in acciaio | “V” driver<br>Prismenführung<br>Guida a "V" |
| 287 | 287 | 288 | 289 | 290 |

| WDX7-65 05111÷05243-A | WDX7-65 09100125÷09160170 | WDX7-65 09100125÷09160170 | WDX7-65-0445 | WDX7-65-11175100÷11175200 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver with positive return<br>Prismenführung mit Zwangsrückholer<br>Guida a "V" con gancio di ritorno | Cam dwell wear plate<br>Uberlaufkeile<br>Cuneo | Cam dwell wear plate<br>Uberlaufkeile<br>Cuneo | Positive return<br>Zwangrückholer<br>Gancio | Cam slide cover plate<br>Deckleiste für Schieber<br>Supporto per camme |
| 291 | 292 | 293 | 294 | 294 |

| WDX7-70-1001-A | WDX7-70-1536 | WDX7-70 16080÷16130 | WDX7-70 18050÷18100 | WDX7-70 19090÷19140 |
|---|---|---|---|---|
|  |  |  |  |  |
| Upper cam safety screw<br>Sicherheitschraube für oberschieber<br>Tirante di sicurezza | Slide stop block<br>Schieberanschlag<br>Arresto slitta | Stop block<br>Anschlag<br>Blocchetto di arresto | Cam buffer<br>Anschlag<br>Arresto | Buffer support<br>Dämpferhalterung<br>Supporto ammortizzatore |
| 295 | 295 | 296 | 296 | 297 |

| WDX13-60 08025÷08125-A | WDX13-60 08025÷08125 | WDX13-60-1001 | WDX13-65 01050100X÷01160315X | WDX13-65 01050100Y÷01160315Y |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide bush NAAMS<br>Führungsbuchse NAAMS<br>Boccola autolubrificante NAAMS | Guide bush NAAMS<br>Führungsbuchse NAAMS<br>Boccola autolubrificante NAAMS | Toe clamp<br>Haltestück<br>Ritegno | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 |
| 297 | 298 | 298 | 299 | 300 |

| WDX13-65 04040÷04152-1 | WDX13-65 10080315÷10080400-A | WDX13-65 10080315÷10080400 | WDX13-65 11080315÷11080400 | WDX13-65 12125400÷12125500-A |
|---|---|---|---|---|
|  |  |  |  |  |
| Stop block<br>Abstandsblock<br>Distanziale | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida |
| 301 | 302 | 302 | 303 | 303 |

| WDX13-65 12125400÷12125500 | WDX13-65 13125400÷13125500 | WDX13-65 20025140÷20100500-A | WDX13-65 20025140÷20100500 | WDX13-65 22025140÷22100500 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post NAAMS<br>Führungssäule NAAMS<br>Colonna guida NAAMS | Guide post<br>Führungssäule<br>Colonna guida | Guide post NAAMS<br>Führungssäule NAAMS<br>Colonna guida NAAMS |
| 304 | 304 | 305 | 306 | 307 |

| WDX14-60 0125÷0163 | WDX14-60 025501-A | WDX14-60 025502-A | WDX14-60 0325÷0363-A | WDX14-60-0406 |
|---|---|---|---|---|
|  |  |  |  |  |
| Pad retainer plate<br>Platte<br>Piastra | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Securing disc<br>Scheibe<br>Rondella di sicurezza |
| 308 | 308 | 309 | 310 | 310 |

| WDX14-60 0425÷0463-A | WDX14-60 0516÷0530 | WDX14-60 0612÷0620 | WDX14-60 0901÷0904 | WDX14-60 1001÷1004 |
|---|---|---|---|---|
|  |  |  |  |  |
| Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Buffer<br>Stoßdämpfer<br>Ammortizzatore | Washer retainer<br>Scheibe<br>Rondella |
| 311 | 312 | 313 | 314 | 314 |

| WDX14-60 1006÷1009 | WDX14-60 1310÷1320 | WDX14-60 1425÷1463-A | WDX14-60 1525÷1563-A | WDX14-60 1701÷1703 |
|---|---|---|---|---|
|  |  |  |  |  |
| Threaded Block<br>Dübel<br>Tassello | Washer retainer<br>Scheibe<br>Rondella | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Shock absorber<br>Halteelement<br>Ammortizzatore |
| 314 | 314 | 315 | 316 | 316 |

| WDX14-62-0175 | WDX14-65 1110÷1116 | WDX14-65 0150180÷015250 | WDX14-65 0263200÷0263465 | WDX14-65 0380250÷0380400 |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating cone<br>Kegeldistanz<br>Cono di centraggio | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante |
| 317 | 317 | 319 | 319 | 320 |

| WDX14-65<br>04050180÷04080400 | WDX14-70<br>194032÷1980125 | WDX15-70 0101 | WDX15-70-0201 | WDX15-70-0301 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Führungssäule<br>Colonna guida | Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Bush<br>Buchse<br>Boccola | Washer<br>Scheibe<br>Rondella | Shim<br>Spannschlitz<br>Spessore |
| 321 | 322 | 322 | 323 | 323 |

| WDX15-70-0401 | WDX16-60<br>01065÷01250 | WDX16-70<br>0301R÷0301L | WDX16-70<br>0701R÷0701L | WDX16-70<br>0901R÷0901L |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating Pin<br>Zentrierbolzen<br>Centraggio | Gage Hardened<br>Einweiser Gehärtet<br>Riferimento indurito | Support for sensor<br>Lagekontrolle für platinen<br>Supporto sensore | Support for sensor<br>Lagekontrolle für platinen<br>Supporto sensore | Support for sensor<br>Lagekontrolle für platinen<br>Supporto sensore |
| 323 | 324 | 325 | 325 | 326 |

| WDX17-70-0501 | WDX17-60<br>0236175÷0245360 | WDX17-60<br>0345175÷0345360 | WDX17-70<br>0736175÷0745360 | WDX17-70<br>0845175÷0845360 |
|---|---|---|---|---|
|  |  |  |  |  |
| Clamp<br>Haltestück<br>Staffa | Air Pin<br>Druckbolzen<br>Candela | Air Pin<br>Druckbolzen<br>Candela | Air Pin<br>Druckbolzen<br>Candela | Air Pin<br>Druckbolzen<br>Candela |
| 326 | 327 | 327 | 328 | 328 |

| WDX19-70<br>0701÷0703 | WDX20-65<br>0310÷0325 | WDX20-65-0601 | WDX20-66<br>0110-A÷0119-A | WDX20-66<br>02110÷02119 |
|---|---|---|---|---|
|  |  |  |  |  |
| Bracket<br>Bügel<br>Staffa | Trademark stamp<br>Buchstabenstempel<br>Punzone marchio | Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Retainer for stamps<br>Halteplatte<br>Portatimbri | Retainer for stamps<br>Halteplatte<br>Portatimbri |
| 329 | 329 | 329 | 330 | 330 |

| WDX20-66 02210÷02219 | WDX20-66 03120÷03220-A | WDX20-66 03115÷03112 | WDX20-66 03205÷03208 | WDX20-66 04120-A÷04121-A |
|---|---|---|---|---|
|  |  |  |  |  |
| Backing plate<br>Druckplatte<br>Distanziale | Retainer for stamps<br>Halteplatte<br>Portatimbri | Retainer for stamps<br>Halteplatte<br>Portatimbri | Backing plate<br>Druckplatte<br>Distanziale | Retainer for stamps<br>Halteplatte<br>Portatimbri |
| 330 | 331 | 331 | 331 | 332 |

| WDX20-66 04115÷04119 | WDX20-66 04205÷04277 | WDX20-66 0601÷0610 | WDX20-70-0101 | WDX20-70 0330÷0372 |
|---|---|---|---|---|
|  |  |  |  |  |
| Retainer for stamps<br>Halteplatte<br>Portatimbri | Backing plate<br>Druckplatte<br>Distanziale | Stamps<br>Buchstabenstempel<br>Punzone marchio | Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Retainer for stamps<br>Halteplatte<br>Portatimbri |
| 332 | 332 | 333 | 333 | 334 |

| WDX20-70 0430÷0472 | WDX22-70 0135÷0180 | WDX22-70-0501 | WDX30-60 0125125÷0130180 | WDX30-60 02080÷02125 |
|---|---|---|---|---|
|  |  |  |  |  |
| Backing plate<br>Druckplatte<br>Distanziale | Lifting pin<br>Tragbolzen mit fallringsicherung<br>Perno di sollevamento | Lifting bracket<br>Tragzapfen<br>Staffa di sollevamento | Standard key<br>Passfeder<br>Chiavetta | Standard key<br>Passfeder<br>Chiavetta |
| 334 | 335 | 336 | 336 | 337 |

| WDX35-70 1401÷1502 | WDX35-70 1611÷1662 |
|---|---|
|  |  |
| Air coupling bracket<br>Luftanschlussblock<br>Supporto innesti rapidi | Color mark air connection<br>Farbige Scheibe<br>Coperchio colorato |
| 337 | 337 |



# WDX3-60

OMCR

## STRIPPER FOR BLANKING DIES - ABSTREIFER FUR PLATINENSCHNITTE - ESTRATTORE PER STAMPI



**Notes**

**Material:** Urelast 90 SH

STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX3-60-0165 |

| FORD CODE |
|---|
| WDX3-60-0165 |

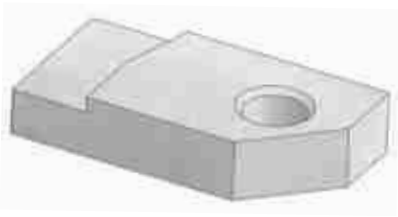
# WDX3-70

OMCR

## STOCK KEEPER PLATE - PLATTE - PIASTRA



WDX3-70-0101



WDX3-70-0102



WDX3-70-0103

**Notes**

**Material:** St37

STOCK

*Stanzwerkzeuge
Stampi di tranciatura

**Folgeverbundwerkzeuge
Stampi progressivi

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX3-70-0102 |

| FORD CODE | Using |
|---|---|
| WDX3-70-0101 | Blank dies* |
| WDX3-70-0102 | Progressive dies** |
| WDX3-70-0103 | Progressive dies** |

## SHOULDER SCREW - STIFT - PERNO



| Notes |
| --- |
| **Material:** CK45 |

STOCK

| ORDER EXAMPLE | FORD CODE |
| --- | --- |
| | WDX3-70-0201 |

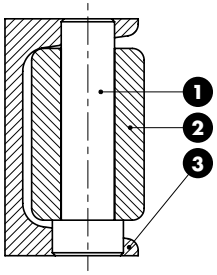
| FORD CODE |
| --- |
| WDX3-70-0201 |

## WDX3-70

OMCR

### COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO






**Notes**

2 **Material:** Steel - **HRC:** 58÷60

1 3 **Material:** Steel

... STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX3-70-2001-A |

**FORD CODE**

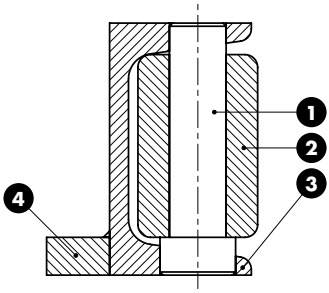
WDX3-70-2001-A

## WDX3-70

OMCR

### COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO






**Notes**

2 **Material:** Steel - **HRC:** 58÷60

1 3 4 **Material:** Steel

... STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX3-70-2002-A |

**FORD CODE**

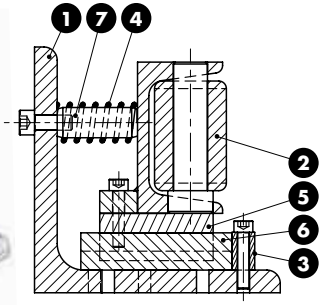
WDX3-70-2002-A

## WDX3-70

OMCR

### COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO MOBILE






**Notes**

2 WDX3-70-2202-A

1 3 4 5 6 7 **Material:** Steel

... STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX3-70-2101-A |

**FORD CODE**

WDX3-70-2101-A

# WDX3-80

OMCR

## VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE







**Notes**

**Material:** X155CrVMo
**HRC:** 58÷60

STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX3-80-2402 |

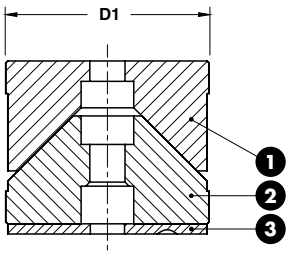
| FORD CODE | D1 |
|---|---|
| WDX3-80-2401 | 30 |
| WDX3-80-2402 | 25 |

# WDX4-70

OMCR

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO






**Notes**

1 2 **Material:** 16MnCr5
**HRC:** 58÷60

3 **Material:** St37

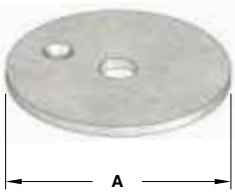
Only for replacement
Nur für Reparatur
Solo per riparazione

... STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX4-70-0401-A |

| FORD CODE | D1 |
|---|---|
| WDX4-70-0301-A | 100 |
| WDX4-70-0401-A | 75 |

## DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE




**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX4-70-0502 |

| FORD CODE | A | For cone assembly |
|---|---|---|
| WDX4-70-0501 | 73 | WDX4-70-0401-A |
| WDX4-70-0502 | 98 | WDX4-70-0301-A |

WDX4-70

## LOCATING CONE - ZENTRIERBOLZEN - CENTRAGGIO



**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX4-70-0801 |

| FORD CODE |
|---|
| WDX4-70-0801 |

## POSITIVE RETURN WEAR PLATE - PLATTE - PIASTRA DI REAZIONE

| Notes |
|---|
| **Material:** CK45 - **HRC**: 58÷60 |

STOCK



WDX7-60-1101



WDX7-60-1102

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX7-60-1102 |

| FORD CODE |
|---|
| WDX7-60-1101 |
| WDX7-60-1102 |

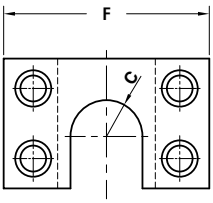


## COUPLING PLATE - BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE

| Notes |
|---|
| **Material:** CK45 |

STOCK



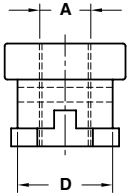



| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX7-60-1702 |

| FORD CODE | F | C |
|---|---|---|
| WDX7-60-1701 | 80 | 14 |
| WDX7-60-1702 | 100 | 20 |
| WDX7-60-1703 | 120 | 25 |
| WDX7-60-1704 | 150 | 33 |

## COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIO STAFFA




**Notes**

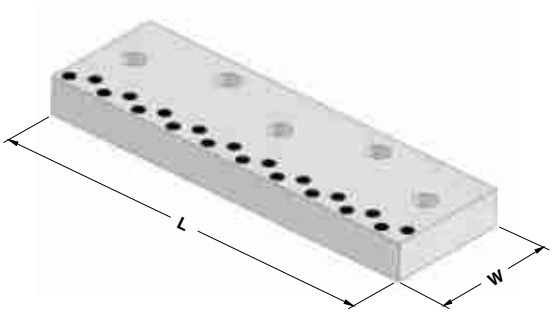
1. **Material:** CK45
2. Spring-type straight pin DIN EN ISO 8752

STOCK ...

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX7-60-1803 |

| FORD CODE | A | D |
|---|---|---|
| WDX7-60-1802 | M12x1.25 | 25 |
| WDX7-60-1803 | M16x1.5 | 37 |
| WDX7-60-1804 | M20x1.5 | 37 |
| WDX7-60-1808 | M27x2 | 37 |
| WDX7-60-1806 | M36x2 | 47 |
| WDX7-60-1807 | M42x2 | 59 |

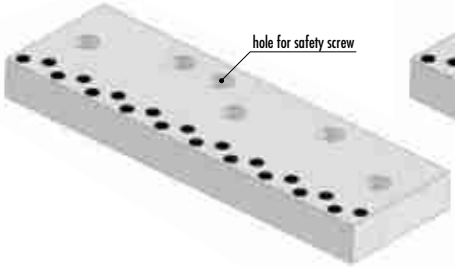
# WEAR PLATE STEEL SELF-LUBRICATING
# DECKLEISTE STAHL MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA IN ACCIAIO AUTOLUBRIFICANTE



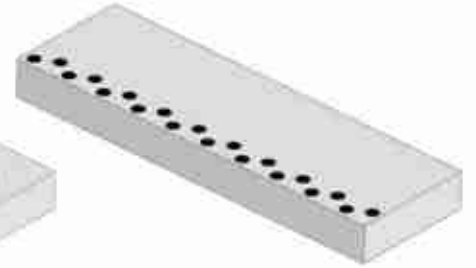

**Notes**

**Material:** CK45 + Graphite
**HRC**: 58÷60

10




**OPTION S**



**OPTION N**

**OPTION**
**S**: With holes and hole for safety screw / mit Löchern und Bohrung für Sicherheitsschrauben / Con fori e foro per vite di sicurezza
**N**: Without holes / Ohne Löcher / Senza fori

ORDER EXAMPLE

| FORD CODE | OPTION |
|---|---|
| WDX7-65-01075253 | S |

| FORD CODE | W | L | Holes |
|---|---|---|---|
| WDX7-65-01075200 | 75 | 200 | 3 |
| WDX7-65-01075253 | 75 | 250 | 3 |
| WDX7-65-01075315 | 75 | 315 | 5 |
| WDX7-65-01075350 | 75 | 350 | 5 |
| WDX7-65-01075400 | 75 | 400 | 5 |
| WDX7-65-01075450 | 75 | 450 | 5 |
| WDX7-65-01100200 | 100 | 200 | 3 |
| WDX7-65-01100253 | 100 | 250 | 3 |
| WDX7-65-01100315 | 100 | 315 | 5 |
| WDX7-65-01100350 | 100 | 350 | 5 |
| WDX7-65-01100400 | 100 | 400 | 5 |
| WDX7-65-01100450 | 100 | 450 | 5 |

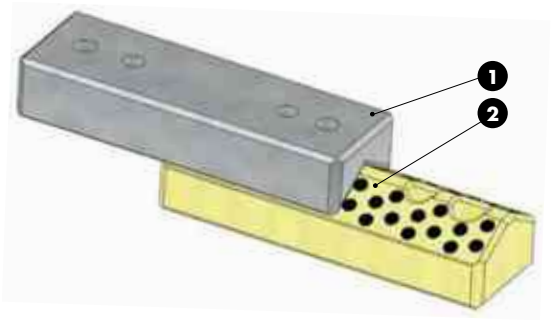
| FORD CODE | W | L | Holes |
|---|---|---|---|
| WDX7-65-01125200 | 125 | 200 | 3 |
| WDX7-65-01125253 | 125 | 250 | 3 |
| WDX7-65-01125315 | 125 | 315 | 5 |
| WDX7-65-01125350 | 125 | 350 | 5 |
| WDX7-65-01125400 | 125 | 400 | 5 |
| WDX7-65-01125450 | 125 | 450 | 5 |
| WDX7-65-01150200 | 150 | 200 | 3 |
| WDX7-65-01150253 | 150 | 250 | 3 |
| WDX7-65-01150315 | 150 | 315 | 5 |
| WDX7-65-01150350 | 150 | 350 | 5 |
| WDX7-65-01150400 | 150 | 400 | 5 |
| WDX7-65-01150450 | 150 | 450 | 5 |

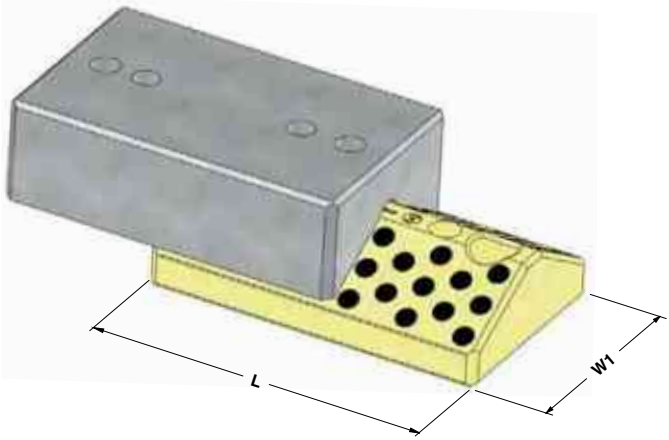
## "V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"

**Notes**

1. **Material:** CK45
   **HRC:** 58÷60
2. **Material:** Bronze + Graphite
   **HB** > 190

STOCK



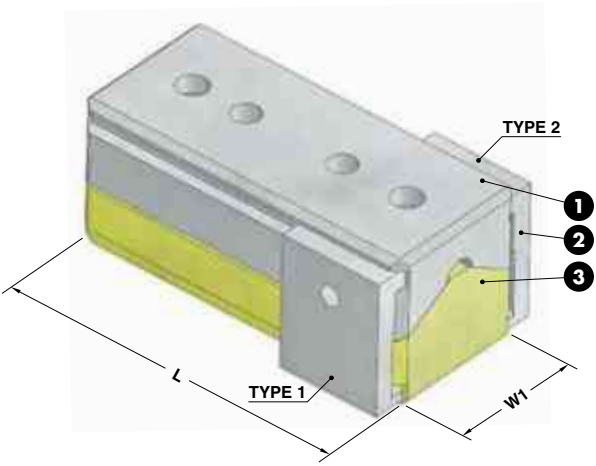




ORDER EXAMPLE

| FORD CODE |
|---|
| WDX7-65-03065200 |

| FORD CODE | W1 | H1 | L |
|---|---|---|---|
| WDX7-65-03065150 | 65 | 65 | 150 |
| WDX7-65-03065200 | 65 | 65 | 200 |
| WDX7-65-03065250 | 65 | 65 | 250 |
| WDX7-65-03065300 | 65 | 65 | 300 |
| WDX7-65-03125150 | 125 | 85 | 150 |
| WDX7-65-03125200 | 125 | 85 | 200 |
| WDX7-65-03125250 | 125 | 85 | 250 |
| WDX7-65-03125300 | 125 | 85 | 300 |

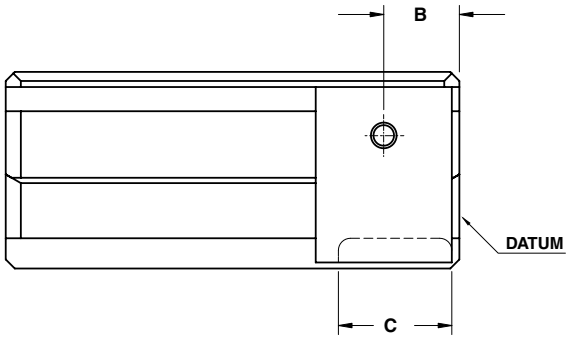
## "V" DRIVER WITH POSITIVE RETURN
## PRISMENFÜHRUNG MIT ZWANGSRÜCKHOLER
## GUIDA A "V" CON GANCIO DI RITORNO




**Notes**

1. **Material:** CK45 - **HRC:** 58÷60
2. **Material:** 42CrMo4
3. **Material:** Bronze + Graphite **HB** > 190




| ORDER EXAMPLE | FORD CODE | B=26 | C=24 |
|---|---|---|---|
| | WDX7-65-05112-A | B26 | C24 |

| FORD CODE | W1 | L | Clamp | FORD CODE | W1 | L | Clamp |
|---|---|---|---|---|---|---|---|
| WDX7-65-05111-A | 65 | 150 | RIGHT | WDX7-65-05211-A | 125 | 150 | RIGHT |
| WDX7-65-05112-A | 65 | 150 | LEFT | WDX7-65-05212-A | 125 | 150 | LEFT |
| WDX7-65-05113-A | 65 | 150 | BOTH | WDX7-65-05213-A | 125 | 150 | BOTH |
| WDX7-65-05121-A | 65 | 200 | RIGHT | WDX7-65-05221-A | 125 | 200 | RIGHT |
| WDX7-65-05122-A | 65 | 200 | LEFT | WDX7-65-05222-A | 125 | 200 | LEFT |
| WDX7-65-05123-A | 65 | 200 | BOTH | WDX7-65-05223-A | 125 | 200 | BOTH |
| WDX7-65-05131-A | 65 | 250 | RIGHT | WDX7-65-05231-A | 125 | 250 | RIGHT |
| WDX7-65-05132-A | 65 | 250 | LEFT | WDX7-65-05232-A | 125 | 250 | LEFT |
| WDX7-65-05133-A | 65 | 250 | BOTH | WDX7-65-05233-A | 125 | 250 | BOTH |
| WDX7-65-05141-A | 65 | 300 | RIGHT | WDX7-65-05241-A | 125 | 300 | RIGHT |
| WDX7-65-05142-A | 65 | 300 | LEFT | WDX7-65-05242-A | 125 | 300 | LEFT |
| WDX7-65-05143-A | 65 | 300 | BOTH | WDX7-65-05243-A | 125 | 300 | BOTH |

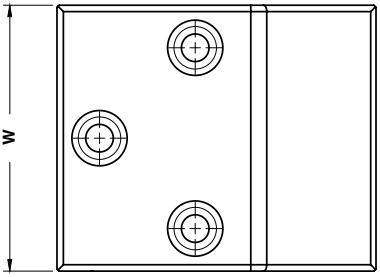
# CAM DWELL WEAR PLATE STEEL
# UBERLAUFKEILE STAHL
# CUNEO IN ACCIAIO

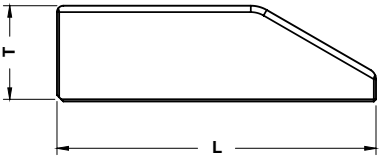


**Notes**

**Material:** 20MnCr5
**HRC:** 56÷60

STOCK



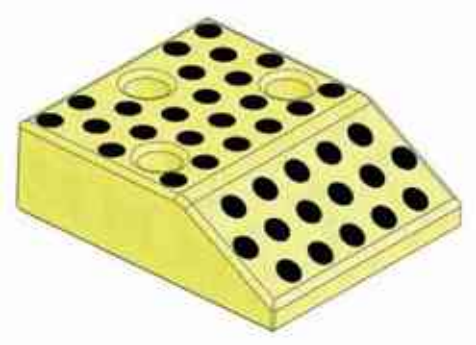




ORDER EXAMPLE

| FORD CODE |
|---|
| WDX7-65-09100150X |

| FORD CODE | T | W | L |
|---|---|---|---|
| WDX7-65-09100125X | 30 | 100 | 125 |
| WDX7-65-09100150X | 45 | 100 | 150 |
| WDX7-65-09100170X | 60 | 100 | 170 |
| WDX7-65-09125125X | 30 | 125 | 125 |
| WDX7-65-09125150X | 45 | 125 | 150 |
| WDX7-65-09125170X | 60 | 125 | 170 |
| WDX7-65-09160125X | 30 | 160 | 125 |
| WDX7-65-09160150X | 45 | 160 | 150 |
| WDX7-65-09160170X | 60 | 160 | 170 |

# CAM DWELL WEAR PLATE SELF-LUBRICATING
# UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
# CUNEO AUTOLUBRIFICANTE

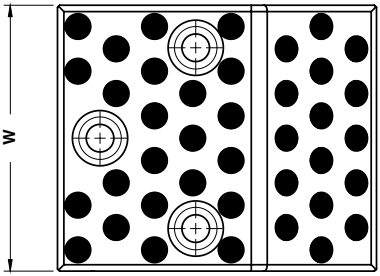


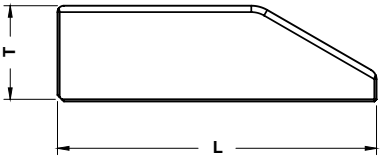
**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK





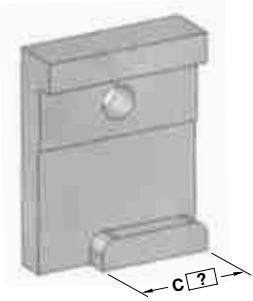

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX7-65-09100150Y |

| FORD CODE | T | W | L |
|---|---|---|---|
| WDX7-65-09100125Y | 30 | 100 | 125 |
| WDX7-65-09100150Y | 45 | 100 | 150 |
| WDX7-65-09100170Y | 60 | 100 | 170 |
| WDX7-65-09125125Y | 30 | 125 | 125 |
| WDX7-65-09125150Y | 45 | 125 | 150 |
| WDX7-65-09125170Y | 60 | 125 | 170 |
| WDX7-65-09160125Y | 30 | 160 | 125 |
| WDX7-65-09160150Y | 45 | 160 | 150 |
| WDX7-65-09160170Y | 60 | 160 | 170 |

## POSITIVE RETURN - ZWANGRÜCKHOLER - GANCIO

**TYPE 1**




**TYPE 2**




| Notes |
|---|
| **Material:** CK45 - **HRC:** 28÷30 |

10

| ORDER EXAMPLE | FORD CODE | TYPE | C=24 |
|---|---|---|---|
| | WDX7-65-0445 | 1 | C24 |

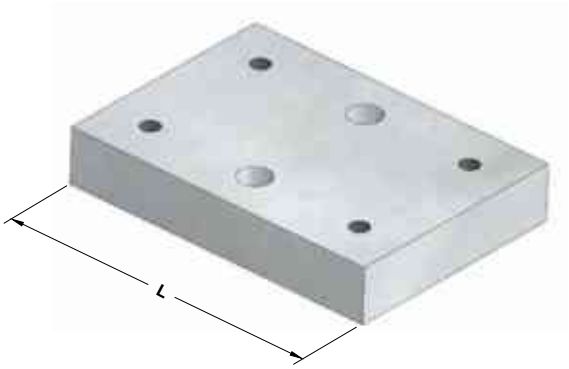
| FORD CODE |
|---|
| WDX7-65-0445 |

WDX7-65

## CAM SLIDE COVER PLATE - DECKLEISTE FÜR SCHIEBER - SUPPORTO PER CAMME

| Notes |
|---|
| **Material:** St37 |

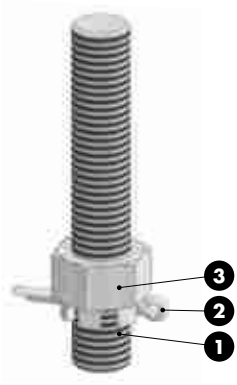
STOCK




| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX7-65-11175125 |

| FORD CODE | L |
|---|---|
| WDX7-65-11175100 | 100 |
| WDX7-65-11175125 | 125 |
| WDX7-65-11175160 | 160 |
| WDX7-65-11175200 | 200 |

## UPPER CAM SAFETY SCREW
## SICHERHEITSCHRAUBE FÜR OBERSCHIEBER
## TIRANTE DI SICUREZZA




⚠
Max load= 1000 kg

**Notes**

1. Thread rod cl 8.8
2. DIN EN ISO 1234 - 4x32
3. DIN 935 cl. 8.8

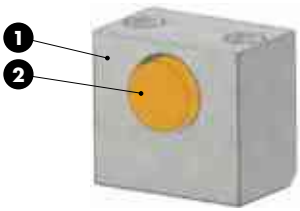
STOCK ...

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX7-70-1001-A |

| FORD CODE |
|---|
| WDX7-70-1001-A |

WDX7-70 OMCR

## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA




**Notes**

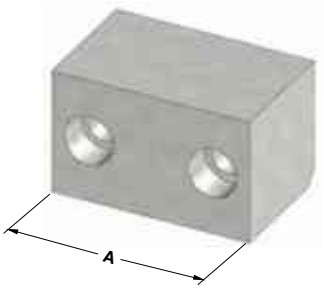
1. **Material:** CK45
2. **Material:** Urethan 90 SH

STOCK ...

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX7-70-1536 |

| FORD CODE |
|---|
| WDX7-70-1536 |

## STOP BLOCK - ANSCHLAG - BLOCCHETTO DI ARRESTO




**Notes**

**Material:** CK45

STOCK

*Eigesetz mit nockendämpfer
Usato con cam buffer

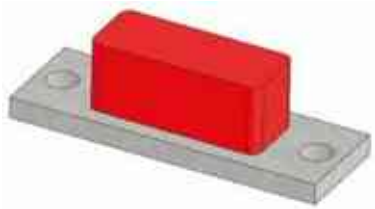
ORDER EXAMPLE

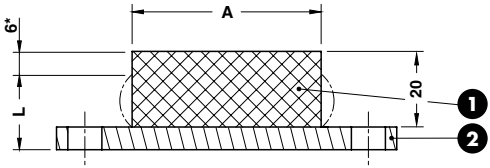
| FORD CODE |
|---|
| WDX7-70-16130 |

| FORD CODE | A | Used with cam buffer* |
|---|---|---|
| WDX7-70-16080 | 80 | WDX7-60-1501 |
| WDX7-70-16130 | 130 | WDX7-60-1502 |

WDX7-70

## CAM BUFFER - ANSCHLAG - ARRESTO






**Notes**

1 **Material:** Polyurethane 90 SH

2 **Material:** St37

STOCK ...

*Max. deflection
Max. zul. Federweg
Deflessione massima

**Gegenkraft bei 6mm max. zul. Federweg
Max. reaction force with 6 mm deflection
Forza di reazione massima per deflessione di 6mm

***Maximal absorbierte Energie bei 6 mm max. zul. Federweg
Massima energia assorbita con deflessione di 6 mm

ORDER EXAMPLE

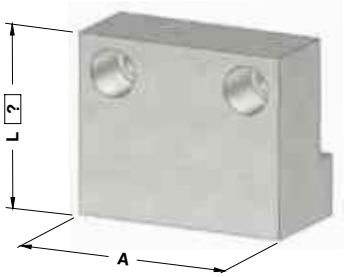
| FORD CODE |
|---|
| WDX7-70-18100 |

| FORD CODE | A | Force for length "L" (kN)** | Max energy absorbion with 6 mm deflection (J)*** |
|---|---|---|---|
| WDX7-70-18050 | 50 | 10 | 30 |
| WDX7-70-18100 | 100 | 20 | 60 |

# WDX7-70

OMCR

## BUFFER SUPPORT - DÄMPFERHALTERUNG - SUPPORTO AMMORTIZZATORE




**Notes**

**Material:** CK45

10

*Eigesetz mit nockendämpfer
Usato con cam buffer

| ORDER EXAMPLE | FORD CODE | L=100 |
|---|---|---|
| | WDX7-70-19140 | L100 |

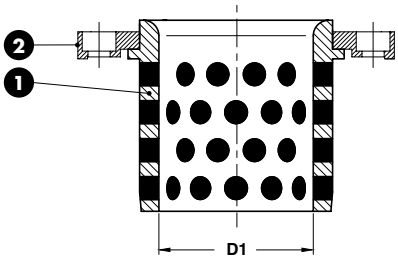
| FORD CODE | A | Used with cam buffer* |
|---|---|---|
| WDX7-70-19090 | 90 | WDX7-70-18050 |
| WDX7-70-19140 | 140 | WDX7-70-18100 |

# WDX13-60

OMCR

## GUIDE BUSH NAAMS - FÜHRUNGSBUCHSE NAAMS - BOCCOLA AUTOLUBRIFICANTE NAAMS






**Notes**

1. **Material:** Bronze + Graphite
   **HB** > 190
2. **Material:** CK45 - WDX13-60-1001

STOCK ...

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-60-08032-A |

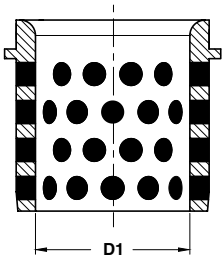
| FORD CODE | D1 | Toe clamp qty. |
|---|---|---|
| WDX13-60-08025-A | 25 | 1 |
| WDX13-60-08032-A | 32 | 1 |
| WDX13-60-08040-A | 40 | 1 |
| WDX13-60-08050-A | 50 | 1 |
| WDX13-60-08063-A | 63 | 2 |
| WDX13-60-08080-A | 80 | 2 |
| WDX13-60-08100-A | 100 | 2 |
| WDX13-60-08125-A | 125 | 2 |

# WDX13-60

OMCR

## GUIDE BUSH NAAMS - FÜHRUNGSBUCHSE NAAMS - BOCCOLA AUTOLUBRIFICANTE NAAMS






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-60-08032 |

| FORD CODE | D1 |
|---|---|
| WDX13-60-08025 | 25 |
| WDX13-60-08032 | 32 |
| WDX13-60-08040 | 40 |
| WDX13-60-08050 | 50 |
| WDX13-60-08063 | 63 |
| WDX13-60-08080 | 80 |
| WDX13-60-08100 | 100 |
| WDX13-60-08125 | 125 |

# WDX13-60

OMCR

## TOE CLAMP - HALTESTÜCK - RITEGNO

**Notes**

**Material:** CK45

STOCK



ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-60-1001 |

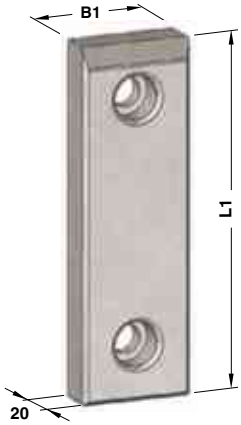
| FORD CODE |
|---|
| WDX13-60-1001 |

## WEAR PLATE STEEL - GLEITPLATTE STAHL - PIASTRA GUIDA IN ACCIAIO

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK




FORM A



FORM B



FORM C



ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-65-01050125X |

| FORD CODE | B1 | L1 | FORM |
|---|---|---|---|
| WDX13-65-01050100X | 50 | 100 | A |
| WDX13-65-01050125X | 50 | 125 | A |
| WDX13-65-01050160X | 50 | 160 | A |
| WDX13-65-01050200X | 50 | 200 | A |
| WDX13-65-01080100X | 80 | 100 | A |
| WDX13-65-01080125X | 80 | 125 | A |
| WDX13-65-01080160X | 80 | 160 | A |
| WDX13-65-01080200X | 80 | 200 | A |
| WDX13-65-01080250X | 80 | 250 | A |
| WDX13-65-01080315X | 80 | 315 | A |
| WDX13-65-01100050X | 100 | 50 | B |
| WDX13-65-01100100X | 100 | 100 | A |
| WDX13-65-01100125X | 100 | 125 | A |
| WDX13-65-01100160X | 100 | 160 | A |
| WDX13-65-01100200X | 100 | 200 | A |

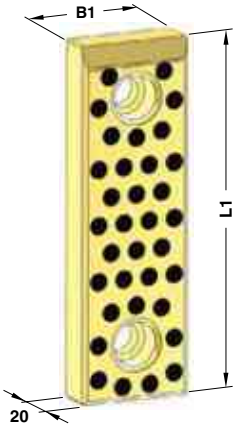
| FORD CODE | B1 | L1 | FORM |
|---|---|---|---|
| WDX13-65-01100250X | 100 | 250 | A |
| WDX13-65-01100315X | 100 | 315 | A |
| WDX13-65-01125100X | 125 | 100 | C |
| WDX13-65-01125125X | 125 | 125 | C |
| WDX13-65-01125160X | 125 | 160 | C |
| WDX13-65-01125200X | 125 | 200 | C |
| WDX13-65-01125250X | 125 | 250 | C |
| WDX13-65-01125315X | 125 | 315 | C |
| WDX13-65-01160100X | 160 | 100 | C |
| WDX13-65-01160125X | 160 | 125 | C |
| WDX13-65-01160160X | 160 | 160 | C |
| WDX13-65-01160200X | 160 | 200 | C |
| WDX13-65-01160250X | 160 | 250 | C |
| WDX13-65-01160315X | 160 | 315 | C |

# WEAR PLATE SELF-LUBRICATING
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA AUTOLUBRIFICANTE

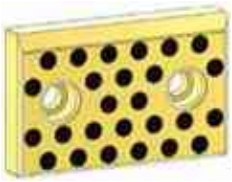
**Notes**

**Material:** Bronze + Graphite
**HB** > 190

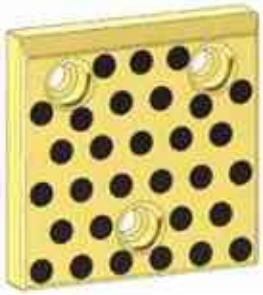
STOCK




FORM A



FORM B



FORM C

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-65-01050125Y |

| FORD CODE | B1 | L1 | FORM |
|---|---|---|---|
| WDX13-65-01050100Y | 50 | 100 | A |
| WDX13-65-01050125Y | 50 | 125 | A |
| WDX13-65-01050160Y | 50 | 160 | A |
| WDX13-65-01050200Y | 50 | 200 | A |
| WDX13-65-01080100Y | 80 | 100 | A |
| WDX13-65-01080125Y | 80 | 125 | A |
| WDX13-65-01080160Y | 80 | 160 | A |
| WDX13-65-01080200Y | 80 | 200 | A |
| WDX13-65-01080250Y | 80 | 250 | A |
| WDX13-65-01080315Y | 80 | 315 | A |
| WDX13-65-01100050Y | 100 | 50 | B |
| WDX13-65-01100100Y | 100 | 100 | A |
| WDX13-65-01100125Y | 100 | 125 | A |
| WDX13-65-01100160Y | 100 | 160 | A |
| WDX13-65-01100200Y | 100 | 200 | A |

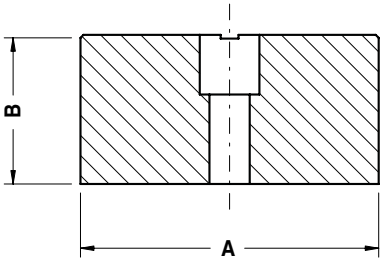
| FORD CODE | B1 | L1 | FORM |
|---|---|---|---|
| WDX13-65-01100250Y | 100 | 250 | A |
| WDX13-65-01100315Y | 100 | 315 | A |
| WDX13-65-01125100Y | 125 | 100 | C |
| WDX13-65-01125125Y | 125 | 125 | C |
| WDX13-65-01125160Y | 125 | 160 | C |
| WDX13-65-01125200Y | 125 | 200 | C |
| WDX13-65-01125250Y | 125 | 250 | C |
| WDX13-65-01125315Y | 125 | 315 | C |
| WDX13-65-01160100Y | 160 | 100 | C |
| WDX13-65-01160125Y | 160 | 125 | C |
| WDX13-65-01160160Y | 160 | 160 | C |
| WDX13-65-01160200Y | 160 | 200 | C |
| WDX13-65-01160250Y | 160 | 250 | C |
| WDX13-65-01160315Y | 160 | 315 | C |

**STOP BLOCK**
**ABSTANDSBLOCK**
**DISTANZIALE**

| Notes |
| --- |
| **Material:** CK45 |

STOCK



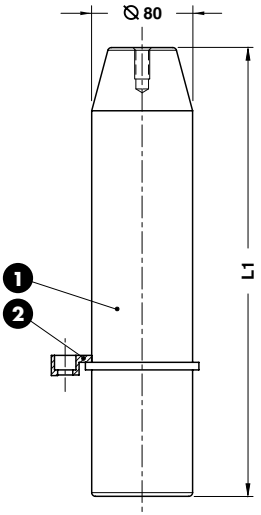



| ORDER EXAMPLE | FORD CODE |
| --- | --- |
| | WDX13-65-04060 1 |

| FORD CODE | A | B |
| --- | --- | --- |
| WDX13-65-04040 1 | 40 | 30 |
| WDX13-65-04060 1 | 60 | 50 |
| WDX13-65-04100 1 | 100 | 50 |
| WDX13-65-04152 1 | 152 | 50 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

1. **Material:** 16MnCr5
   **HRC:** 58÷60
2. **Material:** CK45
   WDX13-60-1001

10 ...

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-65-10080355-A |

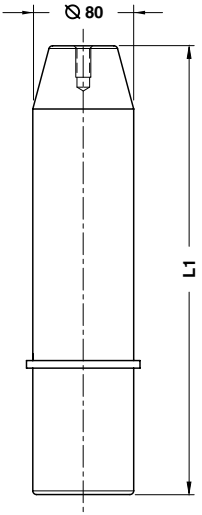
| FORD CODE | L1 | Toe clamp qty. |
|---|---|---|
| WDX13-65-10080315-A | 315 | 3 |
| WDX13-65-10080355-A | 355 | 3 |
| WDX13-65-10080400-A | 400 | 3 |

WDX13-65

OMCR

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

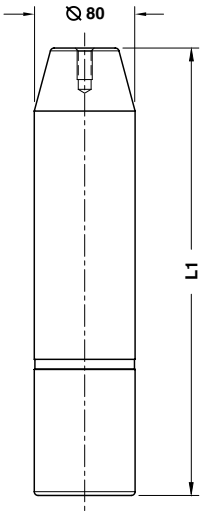
10

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-65-10080355 |

| FORD CODE | L1 |
|---|---|
| WDX13-65-10080315 | 315 |
| WDX13-65-10080355 | 355 |
| WDX13-65-10080400 | 400 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

10

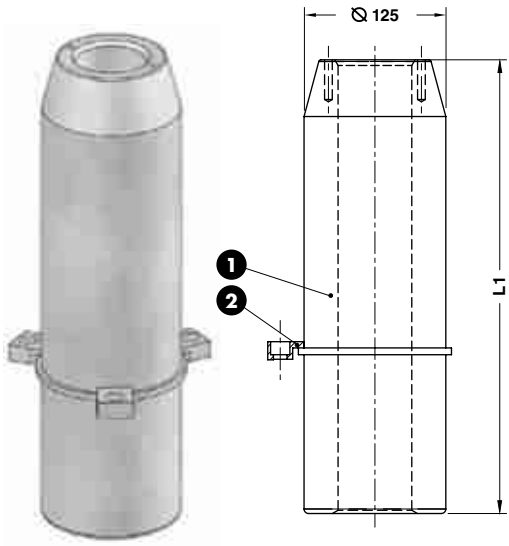
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-65-11080355 |

| FORD CODE | L1 |
|---|---|
| WDX13-65-11080315 | 315 |
| WDX13-65-11080355 | 355 |
| WDX13-65-11080400 | 400 |



WDX13-65

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA




**Notes**

1. **Material:** 16MnCr5
   **HRC:** 60÷62
2. **Material:** CK45
   WDX13-60-1001

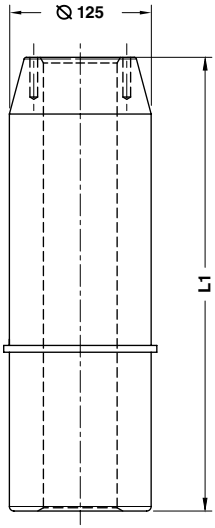
10

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-65-12125450-A |

| FORD CODE | L1 | Toe clamp qty. |
|---|---|---|
| WDX13-65-12125400-A | 400 | 3 |
| WDX13-65-12125450-A | 450 | 3 |
| WDX13-65-12125500-A | 500 | 3 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-65-12125450 |

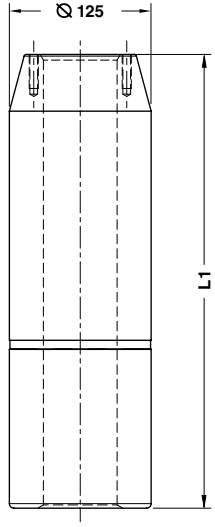
| FORD CODE | L1 |
|---|---|
| WDX13-65-12125400 | 400 |
| WDX13-65-12125450 | 450 |
| WDX13-65-12125500 | 500 |

WDX13-65

OMCR

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX13-65-13125400 |

| FORD CODE | L1 |
|---|---|
| WDX13-65-13125355 | 355 |
| WDX13-65-13125400 | 400 |
| WDX13-65-13125450 | 450 |
| WDX13-65-13125500 | 500 |

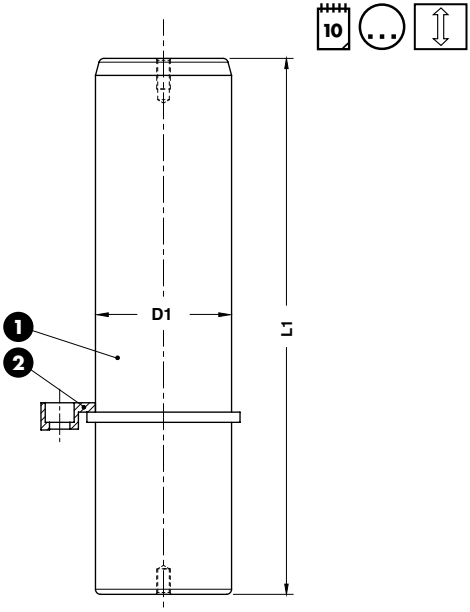
## GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS





**Notes**

1. **Material:** 16MnCr5
   **HRC:** 60÷62
2. **Material:** CK45
   WDX13-60-1001




ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-65-20025160-A |

| FORD CODE | D1 | L1 | Toe clamp qty. |
|---|---|---|---|
| WDX13-65-20025140-A | 25 | 140 | 2 |
| WDX13-65-20025160-A | 25 | 160 | 2 |
| WDX13-65-20025180-A | 25 | 180 | 2 |
| WDX13-65-20032140-A | 32 | 140 | 2 |
| WDX13-65-20032160-A | 32 | 160 | 2 |
| WDX13-65-20032180-A | 32 | 180 | 2 |
| WDX13-65-20032200-A | 32 | 200 | 2 |
| WDX13-65-20040160-A | 40 | 160 | 2 |
| WDX13-65-20040180-A | 40 | 180 | 2 |
| WDX13-65-20040200-A | 40 | 200 | 2 |
| WDX13-65-20040224-A | 40 | 224 | 2 |
| WDX13-65-20040250-A | 40 | 250 | 2 |
| WDX13-65-20050160-A | 50 | 160 | 2 |
| WDX13-65-20050180-A | 50 | 180 | 2 |
| WDX13-65-20050200-A | 50 | 200 | 2 |
| WDX13-65-20050224-A | 50 | 224 | 2 |
| WDX13-65-20050250-A | 50 | 250 | 2 |
| WDX13-65-20050280-A | 50 | 280 | 2 |

| FORD CODE | D1 | L1 | Toe clamp qty. |
|---|---|---|---|
| WDX13-65-20050315-A | 50 | 315 | 2 |
| WDX13-65-20063200-A | 63 | 200 | 3 |
| WDX13-65-20063224-A | 63 | 224 | 3 |
| WDX13-65-20063250-A | 63 | 250 | 3 |
| WDX13-65-20063280-A | 63 | 280 | 3 |
| WDX13-65-20063315-A | 63 | 315 | 3 |
| WDX13-65-20063355-A | 63 | 355 | 3 |
| WDX13-65-20063400-A | 63 | 400 | 3 |
| WDX13-65-20080250-A | 80 | 250 | 3 |
| WDX13-65-20080280-A | 80 | 280 | 3 |
| WDX13-65-20080315-A | 80 | 315 | 3 |
| WDX13-65-20080355-A | 80 | 355 | 3 |
| WDX13-65-20080400-A | 80 | 400 | 3 |
| WDX13-65-20080500-A | 80 | 500 | 3 |
| WDX13-65-20100315-A | 100 | 315 | 3 |
| WDX13-65-20100355-A | 100 | 355 | 3 |
| WDX13-65-20100400-A | 100 | 400 | 3 |
| WDX13-65-20100500-A | 100 | 500 | 3 |

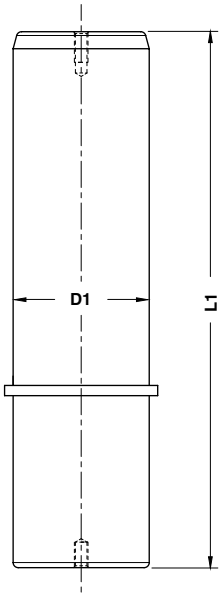
## GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10




ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-65-20025160 |

| FORD CODE | D1 | L1 |
|---|---|---|
| WDX13-65-20025140 | 25 | 140 |
| WDX13-65-20025160 | 25 | 160 |
| WDX13-65-20025180 | 25 | 180 |
| WDX13-65-20032140 | 32 | 140 |
| WDX13-65-20032160 | 32 | 160 |
| WDX13-65-20032180 | 32 | 180 |
| WDX13-65-20032200 | 32 | 200 |
| WDX13-65-20040160 | 40 | 160 |
| WDX13-65-20040180 | 40 | 180 |
| WDX13-65-20040200 | 40 | 200 |
| WDX13-65-20040224 | 40 | 224 |
| WDX13-65-20040250 | 40 | 250 |
| WDX13-65-20050160 | 50 | 160 |
| WDX13-65-20050180 | 50 | 180 |
| WDX13-65-20050200 | 50 | 200 |
| WDX13-65-20050224 | 50 | 224 |
| WDX13-65-20050250 | 50 | 250 |
| WDX13-65-20050280 | 50 | 280 |

| FORD CODE | D1 | L1 |
|---|---|---|
| WDX13-65-20050315 | 50 | 315 |
| WDX13-65-20063200 | 63 | 200 |
| WDX13-65-20063224 | 63 | 224 |
| WDX13-65-20063250 | 63 | 250 |
| WDX13-65-20063280 | 63 | 280 |
| WDX13-65-20063315 | 63 | 315 |
| WDX13-65-20063355 | 63 | 355 |
| WDX13-65-20063400 | 63 | 400 |
| WDX13-65-20080250 | 80 | 250 |
| WDX13-65-20080280 | 80 | 280 |
| WDX13-65-20080315 | 80 | 315 |
| WDX13-65-20080355 | 80 | 355 |
| WDX13-65-20080400 | 80 | 400 |
| WDX13-65-20080500 | 80 | 500 |
| WDX13-65-20100315 | 100 | 315 |
| WDX13-65-20100355 | 100 | 355 |
| WDX13-65-20100400 | 100 | 400 |
| WDX13-65-20100500 | 100 | 500 |

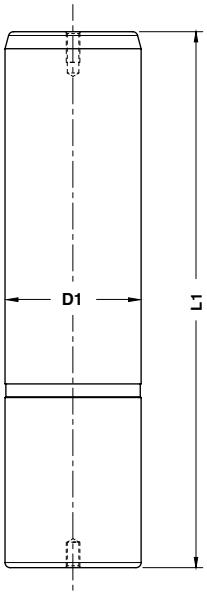
## GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10




ORDER EXAMPLE

| FORD CODE |
|---|
| WDX13-65-22025160 |

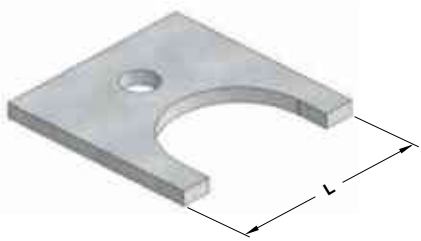
| FORD CODE | D1 | L1 |
|---|---|---|
| WDX13-65-22025140 | 25 | 140 |
| WDX13-65-22025160 | 25 | 160 |
| WDX13-65-22025180 | 25 | 180 |
| WDX13-65-22032140 | 32 | 140 |
| WDX13-65-22032160 | 32 | 160 |
| WDX13-65-22032180 | 32 | 180 |
| WDX13-65-22032200 | 32 | 200 |
| WDX13-65-22040160 | 40 | 160 |
| WDX13-65-22040180 | 40 | 180 |
| WDX13-65-22040200 | 40 | 200 |
| WDX13-65-22040224 | 40 | 224 |
| WDX13-65-22040250 | 40 | 250 |
| WDX13-65-22050160 | 50 | 160 |
| WDX13-65-22050180 | 50 | 180 |
| WDX13-65-22050200 | 50 | 200 |
| WDX13-65-22050224 | 50 | 224 |
| WDX13-65-22050250 | 50 | 250 |
| WDX13-65-22050280 | 50 | 280 |

| FORD CODE | D1 | L1 |
|---|---|---|
| WDX13-65-22050315 | 50 | 315 |
| WDX13-65-22063200 | 63 | 200 |
| WDX13-65-22063224 | 63 | 224 |
| WDX13-65-22063250 | 63 | 250 |
| WDX13-65-22063280 | 63 | 280 |
| WDX13-65-22063315 | 63 | 315 |
| WDX13-65-22063355 | 63 | 355 |
| WDX13-65-22063400 | 63 | 400 |
| WDX13-65-22080250 | 80 | 250 |
| WDX13-65-22080280 | 80 | 280 |
| WDX13-65-22080315 | 80 | 315 |
| WDX13-65-22080355 | 80 | 355 |
| WDX13-65-22080400 | 80 | 400 |
| WDX13-65-22080500 | 80 | 500 |
| WDX13-65-22100315 | 100 | 315 |
| WDX13-65-22100355 | 100 | 355 |
| WDX13-65-22100400 | 100 | 400 |
| WDX13-65-22100500 | 100 | 500 |

# WDX14-60

OMCR

## RETAINER PLATE - PLATTE - PIASTRA




**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-60-0135 |

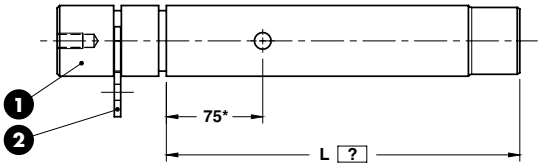
| FORD CODE | L | Pin Size |
|---|---|---|
| WDX14-60-0125 | 40 | 25 |
| WDX14-60-0135 | 50 | 35 |
| WDX14-60-0150 | 60 | 50 |
| WDX14-60-0155 | 70 | 55 |
| WDX14-60-0163 | 80 | 63 |

# WDX14-60

OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** CK45
2. **Material:** St37
   WDX14-60-0155

10 ...

ORDER EXAMPLE

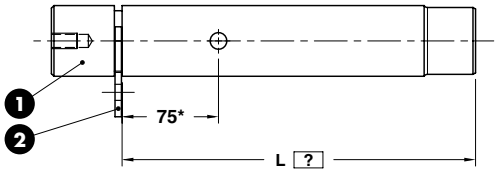
| FORD CODE | L=275 |
|---|---|
| WDX14-60-025501-A | L275 |

| FORD CODE |
|---|
| WDX14-60-025501-A |

*Only with L>500, supplied with safety pin WDX14-60-0280
Nur für L>500, mit Stift zugeführt WDX14-60-0280
Solo per L>500, fornito con perno di sicurezza WDX14-60-0280

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






*Only with L>500, supplied with safety pin WDX14-60-0280
Nur für L>500, mit Stift zugeführt WDX14-60-0280
Solo per L>500, fornito con perno di sicurezza WDX14-60-0280

**Notes**

1. **Material:** CK45
2. **Material:** St37
   WDX14-60-0155

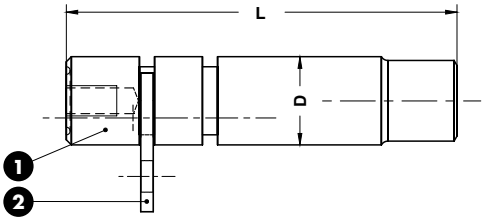
10 ...

| ORDER EXAMPLE | FORD CODE | L=275 |
|---|---|---|
| | WDX14-60-025502-A | L275 |

| FORD CODE |
|---|
| WDX14-60-025502-A |

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** CK45
2. **Material:** St37

STOCK ...

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX14-60-0335-A |

| FORD CODE | Retainer plate (2) | D | L |
|---|---|---|---|
| WDX14-60-0325-A | WDX14-60-0125 | 25 | 130 |
| WDX14-60-0335-A | WDX14-60-0135 | 35 | 155 |
| WDX14-60-0350-A | WDX14-60-0150 | 50 | 200 |
| WDX14-60-0363-A | WDX14-60-0163 | 63 | 250 |

WDX14-60 OMCR

## SECURING DISC - SCHEIBE - RONDELLA DI SICUREZZA



**Notes**

**Material:** CK45

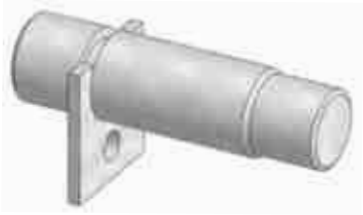
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX14-60-0406 |

| FORD CODE |
|---|
| WDX14-60-0406 |

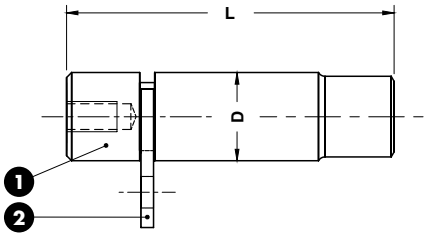
## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO



**Notes**

1. **Material:** CK45
2. **Material:** St37

STOCK ...




ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-60-0435-A |

| FORD CODE | Retainer plate (2) | D | L |
|---|---|---|---|
| WDX14-60-0425-A | WDX14-60-0125 | 25 | 110 |
| WDX14-60-0435-A | WDX14-60-0135 | 35 | 130 |
| WDX14-60-0450-A | WDX14-60-0150 | 50 | 170 |
| WDX14-60-0463-A | WDX14-60-0163 | 63 | 210 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

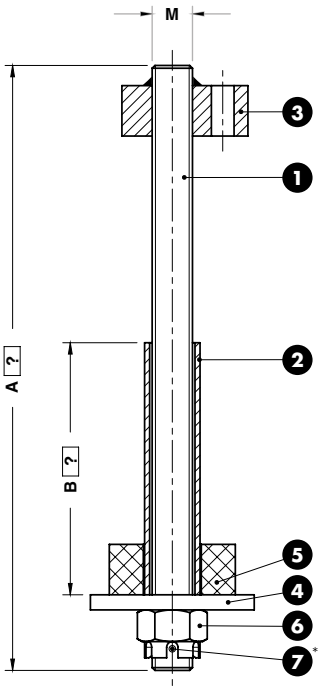


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. Tube DIN 2391
3. **Material:** St37
4. **Material:** CK45
5. **Material:** Elastomer 92SH
6. Hexagon castle nut DIN 935
7. Split Pin. DIN EN ISO 1234

10 ...




*Drill hole in rod for copper pin at assembly
Bohrung für splint durchzuführen bei der montage
Foro per coppiglia da eseguire al montaggio

ORDER EXAMPLE

| FORD CODE | A=290 | B=170 |
|---|---|---|
| WDX14-60-0520 | A290 | B170 |

| FORD CODE | Max load (kg) |
|---|---|
| WDX14-60-0516 | 250 |
| WDX14-60-0520 | 450 |
| WDX14-60-0524 | 750 |
| WDX14-60-0530 | 1250 |

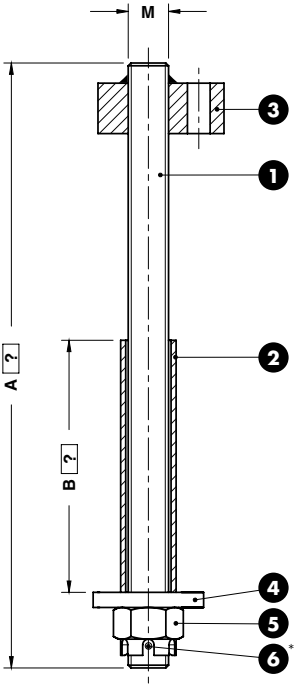
## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. Tube DIN 2391
3. **Material:** St37
4. **Material:** CK45
5. Hexagon castle nut DIN 935
6. Split Pin. DIN EN ISO 1234




*Drill hole in rod for copper pin at assembly
Bohrung für splint durchzufuhren bei der montage
Foro per coppiglia da eseguire al montaggio

ORDER EXAMPLE

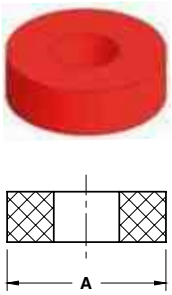
| FORD CODE | A=290 | B=170 |
|---|---|---|
| WDX14-60-0620 | A290 | B170 |

| FORD CODE | Max load (kg) |
|---|---|
| WDX14-60-0612 | 550 |
| WDX14-60-0616 | 1000 |
| WDX14-60-0620 | 1400 |

## WDX14-60

OMCR

### BUFFER - STOSSDÄMPFER - AMMORTIZZATORE




STOCK

**Notes**

**Material:** Elastomer 92 SH

ORDER EXAMPLE

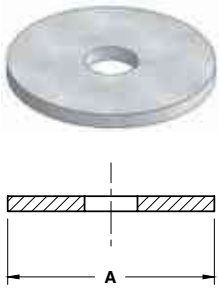
| FORD CODE |
|---|
| WDX14-60-0902 |

| FORD CODE | Size | A |
|---|---|---|
| WDX14-60-0901 | M16 | 50 |
| WDX14-60-0902 | M20 | 63 |
| WDX14-60-0903 | M24 | 80 |
| WDX14-60-0904 | M30 | 100 |

## WDX14-60

OMCR

### WASHER RETAINER - SCHEIBE - RONDELLA




STOCK

**Notes**

**Material:** CK45

ORDER EXAMPLE

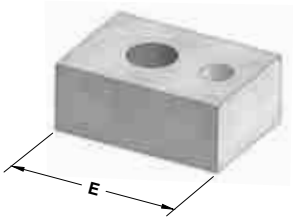
| FORD CODE |
|---|
| WDX14-60-1002 |

| FORD CODE | Size | A |
|---|---|---|
| WDX14-60-1001 | M16 | 65 |
| WDX14-60-1002 | M20 | 82 |
| WDX14-60-1003 | M24 | 105 |
| WDX14-60-1004 | M30 | 130 |

## WDX14-60

OMCR

### THREADED BLOCK - DÜBEL - TASSELLO




STOCK

**Notes**

**Material:** St37

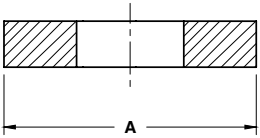
ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-60-1007 |

| FORD CODE | Size | E |
|---|---|---|
| WDX14-60-1005 | M12 | 25 |
| WDX14-60-1006 | M16 | 35 |
| WDX14-60-1007 | M20 | 40 |
| WDX14-60-1008 | M24 | 45 |
| WDX14-60-1009 | M30 | 50 |

## WASHER RETAINER - SCHEIBE - RONDELLA






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

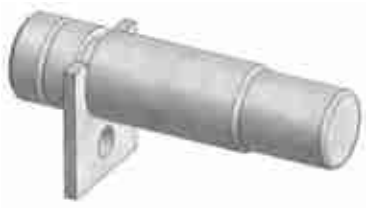
| FORD CODE |
|---|
| WDX14-60-1312 |

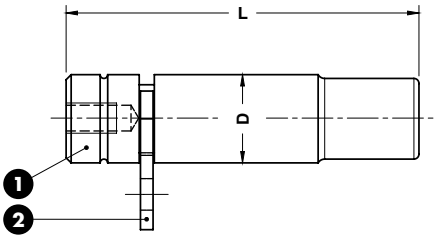
| FORD CODE | Size | A |
|---|---|---|
| WDX14-60-1310 | M10 | 25 |
| WDX14-60-1312 | M12 | 30 |
| WDX14-60-1316 | M16 | 40 |
| WDX14-60-1320 | M20 | 44 |



WDX14-60 OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** CK45
2. **Material:** St37
   WDX14-60-0155

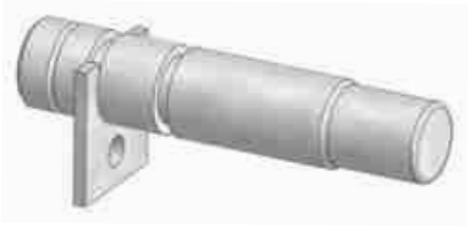
STOCK ...

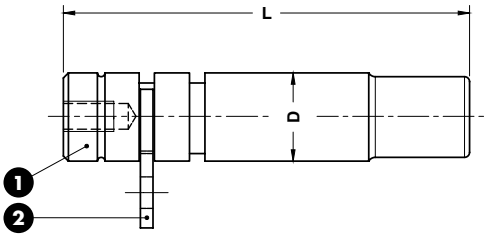
ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-60-1435-A |

| FORD CODE | D | L |
|---|---|---|
| WDX14-60-1425-A | 25 | 120 |
| WDX14-60-1435-A | 35 | 140 |
| WDX14-60-1450-A | 50 | 180 |
| WDX14-60-1463-A | 63 | 210 |

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** CK45
2. **Material:** St37
   WDX14-60-0155

STOCK ...

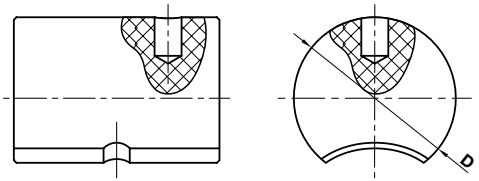
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX14-60-1535-A |

| FORD CODE | D | L |
|---|---|---|
| WDX14-60-1525-A | 25 | 145 |
| WDX14-60-1535-A | 35 | 170 |
| WDX14-60-1550-A | 50 | 215 |
| WDX14-60-1563-A | 63 | 255 |

WDX14-60 OMCR

## SHOCK ABSORBER - HALTEELEMENT - AMMORTIZZATORE






**Notes**

**Material:** Elastomer 92SH

STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX14-60-1702 |

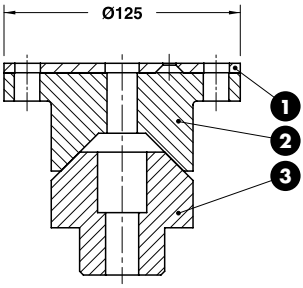
| FORD CODE | Pad side pin | D |
|---|---|---|
| WDX14-60-1701 | 25 | 40 |
| WDX14-60-1702 | 35 | 50 |
| WDX14-60-1703 | 50 | 63 |
| | 63 | 63 |

## WDX14-62

OMCR

### LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO






**Notes**

1 **Material:** St37

2 3 **Material:** 42CrMo4 - **HRC:** 58÷60

STOCK ...

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-62-0175 |

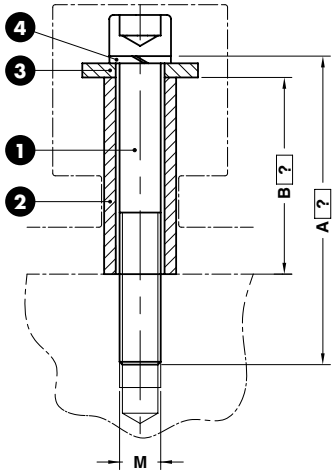
| FORD CODE |
|---|
| WDX14-62-0175 |

## WDX14-65

OMCR

### RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE






Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**Notes**

1 DIN 912

2 Tube DIN 2391

3 **Material:** CK45

4 DIN 127

10 ...

ORDER EXAMPLE

| FORD CODE | A=290 | B=170 |
|---|---|---|
| WDX14-65-1112 | A290 | B170 |

| FORD CODE | M | Max load (kg) |
|---|---|---|
| WDX14-65-1110 | M10 | 100 |
| WDX14-65-1112 | M12 | 150 |
| WDX14-65-1116 | M16 | 250 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

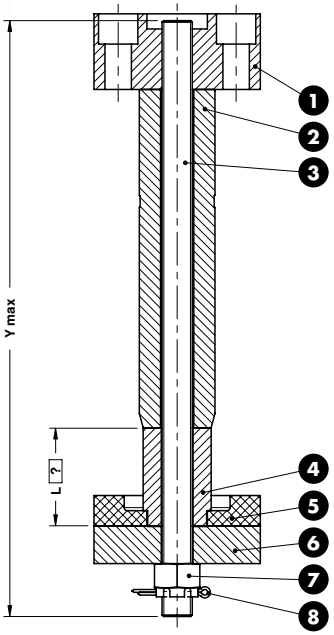


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. WDX14-65-06110
2. WDX14650-4050180/200/224/250
3. WDX14650-820350/370/394/420
4. WDX14-65-05050
5. WDX14-65-07110
6. WDX14-65-05110
7. M20 Hexagon slotted nut DIN 935
8. Split Pin. DIN EN ISO 1234

10 ...




| ORDER EXAMPLE | FORD CODE | L=50 |
|---|---|---|
| | WDX14-65-0150200 | L50 |

| FORD CODE | Y max | Max load (kg) |
|---|---|---|
| WDX14-65-0150180 | 350 | 450 |
| WDX14-65-0150200 | 370 | 450 |
| WDX14-65-0150224 | 394 | 450 |
| WDX14-65-0150250 | 420 | 450 |
| WDX14-65-0150280 | 450 | 450 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE



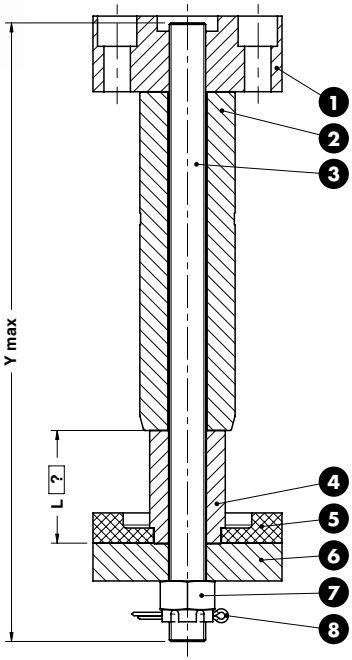


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. WDX14-65-06150
2. WDX14-65-04063200/224/250/280/315
3. WDX1465 0824385/409/435/465
4. WDX14-65-05063
5. WDX14-65-07125
6. WDX14-65-05125
7. M24 Hexagon slotted nut DIN 935
8. Split Pin. DIN EN ISO 1234

10 ...

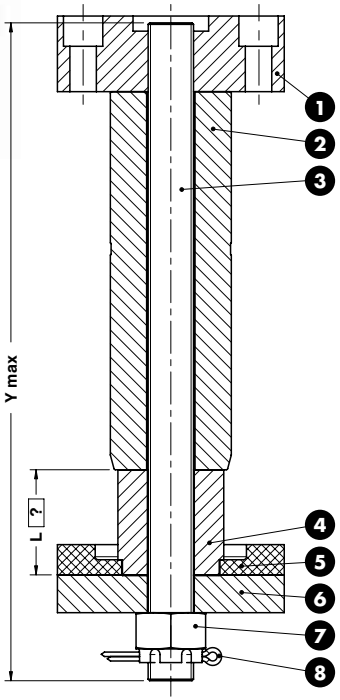



| ORDER EXAMPLE | FORD CODE | L=70 |
|---|---|---|
| | WDX14-65-0263224 | L70 |

| FORD CODE | Y max | Max load (kg) |
|---|---|---|
| WDX14-65-0263200 | 385 | 750 |
| WDX14-65-0263224 | 409 | 750 |
| WDX14-65-0263250 | 435 | 750 |
| WDX14-65-0263280 | 465 | 750 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE






Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. WDX14-65-06150
2. WDX14-65-04080250/280/315/ 355/340
3. WDX14-65-0830435/465/500/ 540/585
4. WDX14-65-05080
5. WDX14-65-07150
6. WDX14-65-05150
7. M30 Hexagon slotted nut DIN 935
8. Split Pin. DIN EN ISO 1234

10 ...

| ORDER EXAMPLE | FORD CODE | L=65 |
|---|---|---|
| | WDX14-65-0380280 | L65 |

| FORD CODE | Y max | Max load (kg) |
|---|---|---|
| WDX14-65-0380250 | 435 | 1250 |
| WDX14-65-0380280 | 465 | 1250 |
| WDX14-65-0380315 | 500 | 1250 |
| WDX14-65-0380355 | 540 | 1250 |
| WDX14-65-0380400 | 585 | 1250 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

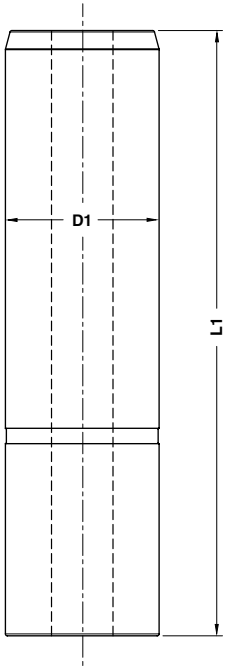


**Notes**

**Material:** 16MnCr5 - **HRC:** 57÷62

10






ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-65-04050200 |

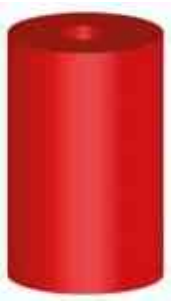
| FORD CODE | D1 | L1 |
|---|---|---|
| WDX14-65-04050180 | 50 | 180 |
| WDX14-65-04050200 | 50 | 200 |
| WDX14-65-04050224 | 50 | 224 |
| WDX14-65-04050250 | 50 | 250 |
| WDX14-65-04050280 | 50 | 280 |
| WDX14-65-04063200 | 63 | 200 |
| WDX14-65-04063224 | 63 | 224 |
| WDX14-65-04063250 | 63 | 250 |

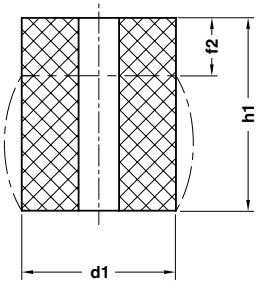
| FORD CODE | D1 | L1 |
|---|---|---|
| WDX14-65-04063280 | 63 | 280 |
| WDX14-65-04063315 | 63 | 315 |
| WDX14-65-04080250 | 80 | 250 |
| WDX14-65-04080280 | 80 | 280 |
| WDX14-65-04080315 | 80 | 315 |
| WDX14-65-04080355 | 80 | 355 |
| WDX14-65-04080400 | 80 | 400 |

# WDX14-70

OMCR

## ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO






**Notes**

**Material:** Elastomer 90SH

S = max. 30% H

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX14-70-194040 |

| FORD CODE | d1 | f2 | h1 |
|---|---|---|---|
| WDX14-70-194032 | 40 | 2,5 | 32 |
| WDX14-70-194040 | 40 | 3,2 | 40 |
| WDX14-70-194050 | 40 | 4 | 50 |
| WDX14-70-194063 | 40 | 5 | 63 |
| WDX14-70-194080 | 40 | 6,4 | 80 |
| WDX14-70-195032 | 50 | 2,5 | 32 |
| WDX14-70-195040 | 50 | 3,2 | 40 |
| WDX14-70-195050 | 50 | 4 | 50 |
| WDX14-70-195063 | 50 | 5 | 63 |

| FORD CODE | d1 | f2 | h1 |
|---|---|---|---|
| WDX14-70-195080 | 50 | 6,4 | 80 |
| WDX14-70-1950100 | 50 | 8 | 100 |
| WDX14-70-196332 | 63 | 2,5 | 32 |
| WDX14-70-196340 | 63 | 3,2 | 40 |
| WDX14-70-196350 | 63 | 4 | 50 |
| WDX14-70-196363 | 63 | 5 | 63 |
| WDX14-70-196380 | 63 | 6,4 | 80 |
| WDX14-70-1963100 | 63 | 8 | 100 |
| WDX14-70-1963125 | 63 | 10 | 125 |

| FORD CODE | d1 | f2 | h1 |
|---|---|---|---|
| WDX14-70-198032 | 80 | 2,5 | 32 |
| WDX14-70-198040 | 80 | 3,2 | 40 |
| WDX14-70-198050 | 80 | 4 | 50 |
| WDX14-70-198063 | 80 | 5 | 63 |
| WDX14-70-198080 | 80 | 6,4 | 80 |
| WDX14-70-1980100 | 80 | 8 | 100 |
| WDX14-70-1980125 | 80 | 10 | 125 |

# WDX15-70

OMCR

## BUSH - BUCHSE - BOCCOLA



**Notes**

**Material:** St52

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX15-70-0101 |

| FORD CODE |
|---|
| WDX15-70-0101 |

## WDX15-70

OMCR

### WASHER - SCHEIBE - RONDELLA



**Notes**

**Material:** 42CrMo4

STOCK

ORDER EXAMPLE

| FORD CODE |
| --- |
| WDX15-70-0201 |

| FORD CODE |
| --- |
| WDX15-70-0201 |

## WDX15-70

OMCR

### SHIM - SPANNSCHLITZ - SPESSORE



**Notes**

**Material:** St52

STOCK

ORDER EXAMPLE

| FORD CODE |
| --- |
| WDX15-70-0301 |

| FORD CODE |
| --- |
| WDX15-70-0301 |

## WDX15-70

OMCR

### LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO



**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| FORD CODE |
| --- |
| WDX15-70-0401 |

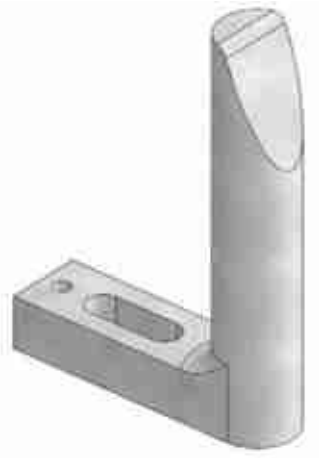
| FORD CODE |
| --- |
| WDX15-70-0401 |

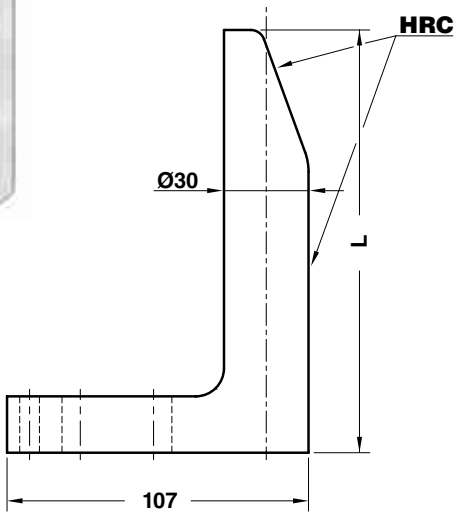
## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO

**Notes**

**Material:** CK60 - **HRC:** 56÷60

STOCK



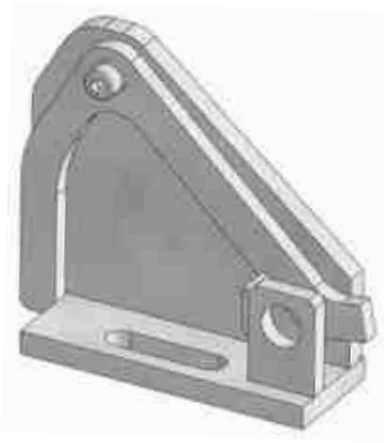



ORDER EXAMPLE

| FORD CODE |
|---|
| WDX16-60-01090 |

| FORD CODE | L |
|---|---|
| WDX16-60-01065 | 65 |
| WDX16-60-01090 | 90 |
| WDX16-60-01120 | 120 |
| WDX16-60-01150 | 150 |
| WDX16-60-01180 | 180 |
| WDX16-60-01250 | 250 |

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

*Germäß zeichnung
Come a disegno

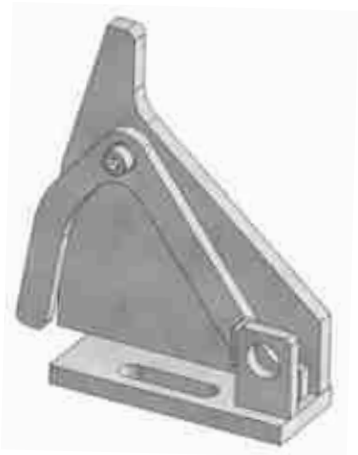
**Spiegelverkehrt
Opposto al disegno

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX16-70-0301R |

| FORD CODE | FORM |
|---|---|
| WDX16-70-0301R | As shown in drawing* |
| WDX16-70-0301L | Opposite to drawing** |

WDX16-70

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

*Germäß zeichnung
Come a disegno

**Spiegelverkehrt
Opposto al disegno

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX16-70-0701R |

| FORD CODE | FORM |
|---|---|
| WDX16-70-0701R | As shown in drawing* |
| WDX16-70-0701L | Opposite to drawing** |

# WDX16-70

OMCR

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE



**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

*Germäß zeichnung
Come a disegno

**Spiegelverkehrt
Opposto al disegno

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX16-70-0901R |

| FORD CODE | FORM |
|---|---|
| WDX16-70-0901R | As shown in drawing* |
| WDX16-70-0901L | Opposite to drawing** |

# WDX17-70

OMCR

## CLAMP - HALTESTÜCK - STAFFA



**Notes**

**Material:** St37

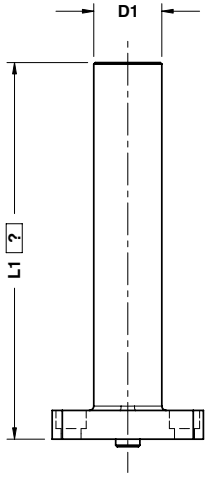
STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX17-70-0501 |

| FORD CODE |
|---|
| WDX17-70-0501 |

## AIR PIN - DRUCKBOLZEN - CANDELA






L1 max = 350

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

10



| ORDER EXAMPLE | FORD CODE | L1=095 |
|---|---|---|
| | WDX17-60-0245 | 095 |

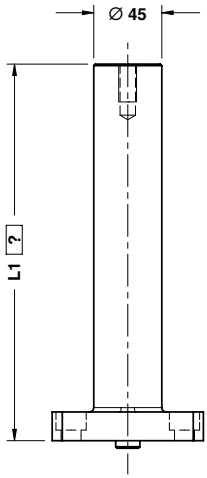
| FORD CODE | D1 |
|---|---|
| WDX17-60-0236 | 36 |
| WDX17-60-0245 | 45 |

WDX17-60

OMCR

## AIR PIN - DRUCKBOLZEN - CANDELA






L1 max = 350

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

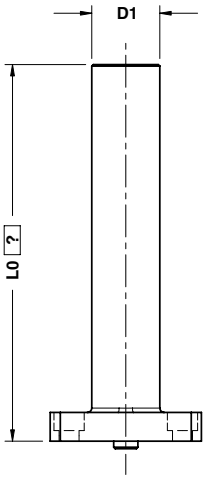
10

| ORDER EXAMPLE | FORD CODE | L1=095 |
|---|---|---|
| | WDX17-60-0345 | 095 |

| FORD CODE | D1 |
|---|---|
| WDX17-60-0345 | 45 |

## AIR PIN - DRUCKBOLZEN - CANDELA






L0 max = 360

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

10

| ORDER EXAMPLE | FORD CODE | L0=345 |
|---|---|---|
| | WDX17-70-0736250 | L0345 |

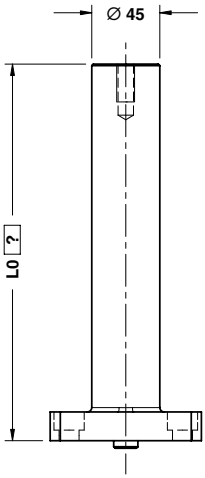
| FORD CODE | D1 | L0 |
|---|---|---|
| WDX17-70-0736175 | 36 | 30÷175 |
| WDX17-70-0736250 | 36 | 176÷250 |
| WDX17-70-0736360 | 36 | 251÷360 |
| WDX17-70-0745175 | 45 | 30÷175 |
| WDX17-70-0745250 | 45 | 176÷250 |
| WDX17-70-0745360 | 45 | 251÷360 |

WDX17-70

OMCR

AIR PIN - DRUCKBOLZEN - CANDELA






L0 max = 360

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

10

| ORDER EXAMPLE | FORD CODE | L0=345 |
|---|---|---|
| | WDX17-70-0845250 | L0345 |

| FORD CODE | L0 |
|---|---|
| WDX17-70-0845175 | 30÷175 |
| WDX17-70-0845250 | 176÷250 |
| WDX17-70-0845360 | 251÷360 |

## WDX19-70

OMCR

### BRACKET - BÜGEL - STAFFA



**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX19-70-0702 |

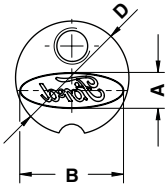
| FORD CODE |
|---|
| WDX19-70-0703 |

## WDX20-65

OMCR

### TRADEMARK STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO






**Notes**

**Material:** X155CrVMo12
**HRC:** 60÷62

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX20-65-0313 |

| FORD CODE | A | B | D |
|---|---|---|---|
| WDX20-65-0310 | 2.2 | 6 | 10 |
| WDX20-65-0313 | 3.6 | 10 | 13 |
| WDX20-65-0325 | 7.3 | 20 | 25 |

## WDX20-65

OMCR

### VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



**Notes**

**Material:** X210Cr12 - **HRC:** 60÷62

STOCK

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX20-65-0601 |

| FORD CODE |
|---|
| WDX20-65-0601 |

## WDX20-66

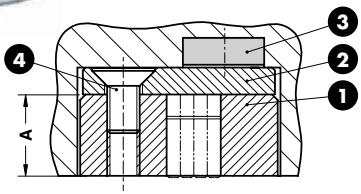
OMCR

### RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI



STOCK

Only for replacement
Nur für Reparatur
Solo per riparazione




**Notes**

1. WDX20-66-02110/02119
2. WDX20-66-02210/02219
3. Magnet Ø15x5 - Force=40N
4. M6x12 DIN EN ISO 10642

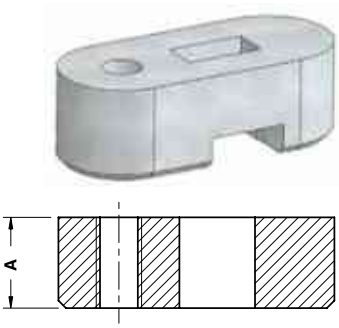
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-0119-A |

| FORD CODE | A |
|---|---|
| WDX20-66-0110-A | 15 |
| WDX20-66-0119-A | 12 |

## WDX20-66

OMCR

### RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




STOCK

**Notes**

**Material:** 90MnV8Ku - **HRC:** 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

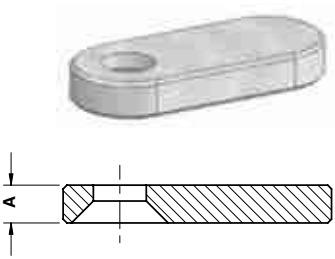
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-02119 |

| FORD CODE | A |
|---|---|
| WDX20-66-02110 | 15 |
| WDX20-66-02119 | 12 |

## WDX20-66

OMCR

### BACKING PLATE - DRUCKPLATTE - DISTANZIALE




STOCK

**Notes**

**Material:** 90MnV8Ku - **HRC:** 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

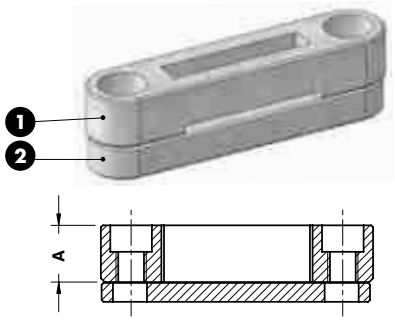
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-02219 |

| FORD CODE | A |
|---|---|
| WDX20-66-02210 | 5 |
| WDX20-66-02219 | 7.7 |

## WDX20-66

OMCR

### RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




STOCK ...

**Notes**

1. WDX20-66-03112/03115
2. WDX20-66-03205/03208

Only for replacement
Nur für Reparatur
Solo per riparazione

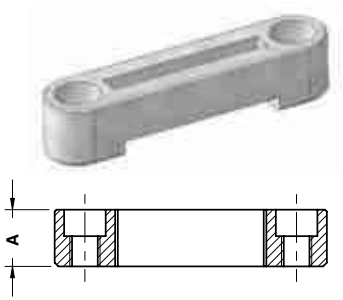
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-03220-A |

| FORD CODE | A |
|---|---|
| WDX20-66-03120-A | 15 |
| WDX20-66-03220-A | 12 |

## WDX20-66

OMCR

### RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




STOCK

**Notes**

**Material:** 90MnV8Ku - **HRC:** 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

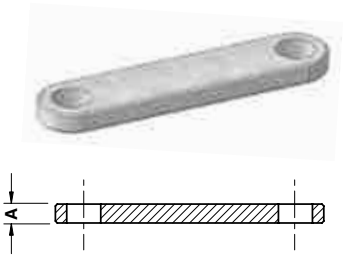
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-03115 |

| FORD CODE | A |
|---|---|
| WDX20-66-03112 | 12 |
| WDX20-66-03115 | 15 |

## WDX20-66

OMCR

### BACKING PLATE - DRUCKPLATTE - DISTANZIALE




STOCK

**Notes**

**Material:** 90MnV8Ku - **HRC:** 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

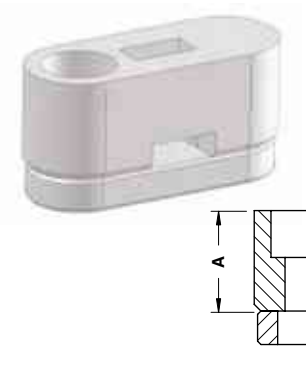
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-03208 |

| FORD CODE | A |
|---|---|
| WDX20-66-03205 | 5 |
| WDX20-66-03208 | 7.7 |

## WDX20-66

OMCR

### RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




**Notes**

1. WDX20-66-04115/04119
2. WDX20-66-04205/04277

STOCK ...

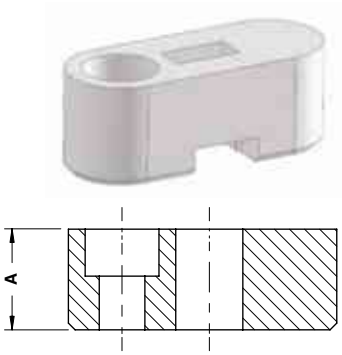
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-04121-A |

| FORD CODE | A |
|---|---|
| WDX20-66-04120-A | 15 |
| WDX20-66-04121-A | 12 |

## WDX20-66

OMCR

### RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




**Notes**

**Material:** 90MnV8Ku - **HRC:** 60÷62

STOCK

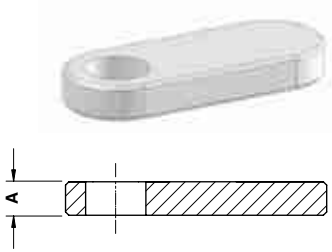
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-04119 |

| FORD CODE | A |
|---|---|
| WDX20-66-04115 | 15 |
| WDX20-66-04119 | 12 |

## WDX20-66

OMCR

### BACKING PLATE - DRUCKPLATTE - DISTANZIALE




**Notes**

**Material:** 90MnV8Ku - **HRC:** 60÷62

STOCK

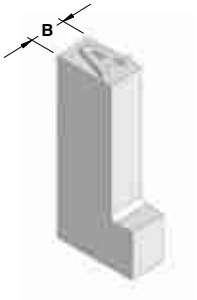
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-66-04277 |

| FORD CODE | A |
|---|---|
| WDX20-66-04205 | 5 |
| WDX20-66-04277 | 7,7 |

# WDX20-66

OMCR

## STAMPS - BUCHSTABENSTEMPEL - PUNZONE MARCHIO




**Notes**

**Material:** X155CrVMo121 - **HRC:** 60÷62

STOCK

* Stamp kit all letters, numbers and blanks
Stempel-Kit mit allen Buchstaben, Zahlen und Leerzeiche
Serie punzoni marchio tutte le lettere, i numeri ed i riempitivi

** Stamp kit all numbers and blanks
Stempel-Kit mit allen Zahlen und Leerzeichen
Serie punzoni marchio tutti i numeri ed i riempitivi

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX20-66-0601-1 |

| FORD CODE | B | Stamp |
|---|---|---|
| WDX20-66-0601-0 | 2,5 | 0 |
| WDX20-66-0601-1 | 2,5 | 1 |
| WDX20-66-0601-2 | 2,5 | 2 |
| WDX20-66-0601-3 | 2,5 | 3 |
| WDX20-66-0601-4 | 2,5 | 4 |
| WDX20-66-0601-5 | 2,5 | 5 |
| WDX20-66-0601-6 | 2,5 | 6 |
| WDX20-66-0601-7 | 2,5 | 7 |
| WDX20-66-0601-8 | 2,5 | 8 |
| WDX20-66-0601-9 | 2,5 | 9 |
| WDX20-66-0602-A | 3,0 | A |
| WDX20-66-0602-B | 3,0 | B |
| WDX20-66-0602-C | 3,0 | C |
| WDX20-66-0602-D | 3,0 | D |
| WDX20-66-0602-E | 3,0 | E |

| FORD CODE | B | Stamp |
|---|---|---|
| WDX20-66-0602-F | 2,5 | F |
| WDX20-66-0602-G | 3,0 | G |
| WDX20-66-0602-H | 3,0 | H |
| WDX20-66-0602-I | 2,5 | I |
| WDX20-66-0602-J | 2,5 | J |
| WDX20-66-0602-K | 3,0 | K |
| WDX20-66-0602-L | 2,5 | L |
| WDX20-66-0602-M | 3,5 | M |
| WDX20-66-0602-N | 3,0 | N |
| WDX20-66-0602-P | 3,0 | P |
| WDX20-66-0602-Q | 3,0 | Q |
| WDX20-66-0602-R | 3,0 | R |
| WDX20-66-0602-S | 3,0 | S |
| WDX20-66-0602-T | 2,5 | T |
| WDX20-66-0602-U | 3,0 | U |

| FORD CODE | B | Stamp |
|---|---|---|
| WDX20-66-0602-V | 2,5 | V |
| WDX20-66-0602-W | 3,5 | W |
| WDX20-66-0602-X | 2,5 | X |
| WDX20-66-0602-Y | 2,5 | Y |
| WDX20-66-0602-Z | 2,5 | Z |
| WDX20-66-0603 | 0,5 | FILLER |
| WDX20-66-0604 | 1,0 | FILLER |
| WDX20-66-0605 | 1,5 | FILLER |
| WDX20-66-0606 | 2,0 | FILLER |
| WDX20-66-0607 | 2,5 | FILLER |
| WDX20-66-0608 | 22,0 | FILLER |
| WDX20-66-0609 | 6,0 | FILLER |
| *WDX20-66-0610 | - | - |
| **WDX20-66-0611 | - | - |



# WDX20-70

OMCR

## VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



STOCK

**Notes**

**Material:** X210Cr12 - **HRC:** 60÷62

Only for replacement
Nur für Reparatur
Solo per riparazione

ORDER EXAMPLE

| FORD CODE |
|---|
| WDX20-70-0101 |

| FORD CODE |
|---|
| WDX20-70-0101 |

## RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI



FORM A




FORM B

**Notes**

**Material:** X155CrVMo12
**HRC:** 60÷62
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-70-0333 |

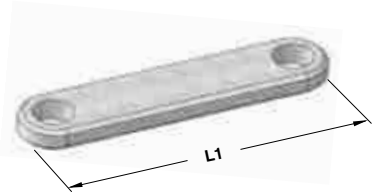
| FORD CODE | FORM | L1 |
|---|---|---|
| WDX20-70-0330 | A | 30 |
| WDX20-70-0333 | A | 32,5 |
| WDX20-70-0352 | B | 52 |
| WDX20-70-0372 | B | 72 |

WDX20-70 OMCR

## BACKING PLATE - DRUCKPLATTE - DISTANZIALE



FORM A




FORM B

**Notes**

**Material:** 90MnV8KU - **HRC:** 60÷62
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX20-70-0432 |

| FORD CODE | FORM | L1 |
|---|---|---|
| WDX20-70-0430 | A | 30 |
| WDX20-70-0432 | A | 32 |
| WDX20-70-0452 | B | 52 |
| WDX20-70-0472 | B | 72 |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

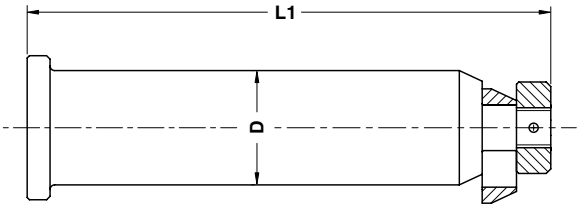
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

### Notes

**Material:** 42CrMo4 + QT

CE STOCK






ORDER EXAMPLE

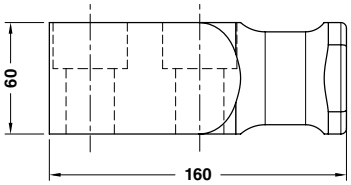
| FORD CODE |
|---|
| WDX22-70-0150 |

| FORD CODE | Max load (kg) | Max die weight (kg) | D | L1 |
|---|---|---|---|---|
| **WDX22-70-0150** | 5500 | 10050 | 50 | 230 |
| **WDX22-70-0163** | 23000 | 45500 | 63 | 320 |
| **WDX22-70-0180** | 30000 | 60000 | 80 | 370 |

# WDX22-70

## LIFTING BRACKET - TRAGZAPFEN - STAFFA DI SOLLEVAMENTO






STOCK

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**WARNING -ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

**Notes**

**Material:** CK45 - 700÷800 N/mm²

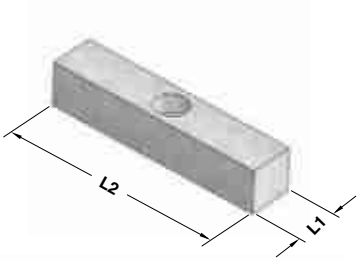
Screws not included

| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX22-70-0501 |

| FORD CODE | Max load (kg) | Max die weight (kg) |
|---|---|---|
| WDX22-70-0501 | 5000 | 10000 |

# WDX30-60

## STANDARD KEY - PASSFEDER - CHIAVETTA






**Notes**

**Material:** CK45

STOCK

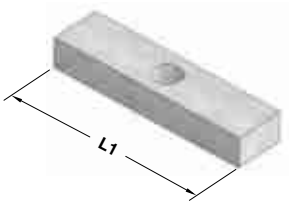
| ORDER EXAMPLE | FORD CODE |
|---|---|
| | WDX30-60-0125180 |

| FORD CODE | L1 | L2 | Holes |
|---|---|---|---|
| WDX30-60-0125125 | 25 | 125 | 1 |
| WDX30-60-0125180 | 25 | 180 | 2 |
| WDX30-60-0130125 | 30 | 125 | 1 |
| WDX30-60-0130180 | 30 | 180 | 2 |

## WDX30-60

OMCR

### STANDARD KEY - PASSFEDER - CHIAVETTA




**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE | FORD CODE: WDX30-60-02125

| FORD CODE | L1 |
|---|---|
| WDX30-60-02080 | 80 |
| WDX30-60-02125 | 125 |

## WDX35-70

OMCR

### AIR COUPLING BRACKET - LUFTANSCHLUSSBLOCK - SUPPORTO INNESTI RAPIDI



WDX35-70-1401



WDX35-70-1502

**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE | FORD CODE: WDX35-70-1502

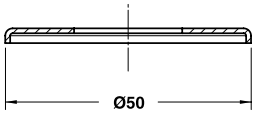
| FORD CODE |
|---|
| WDX35-70-1401 |
| WDX35-70-1502 |

## WDX35-70

OMCR

### COLOR MARK AIR CONNECTION - FARBIGE SCHEIBE - COPERCHIO COLORATO






**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE | FORD CODE: WDX35-70-1612

| FORD CODE | Color designation | Paint number |
|---|---|---|
| WDX35-70-1611 | Flamed red | RAL 3000 |
| WDX35-70-1612 | Zinc yellow | RAL 1018 |
| WDX35-70-1621 | Azure blue | RAL 5009 |
| WDX35-70-1622 | Pastel green | RAL 6019 |

| FORD CODE | Color designation | Paint number |
|---|---|---|
| WDX35-70-1631 | Jet black | RAL 9005 |
| WDX35-70-1632 | Gray white | RAL 9002 |
| WDX35-70-1641 | Clay brown | RAL 8003 |
| WDX35-70-1651 | Patina green | RAL 6000 |

| FORD CODE | Color designation | Paint number |
|---|---|---|
| WDX35-70-1652 | Deep orange | RAL 2011 |
| WDX35-70-1661 | Iron grey | RAL 7011 |
| WDX35-70-1662 | Light pink | RAL 3015 |





# Die Components
# Normalien
# Componenti

NEW

JLR

OMCR®

STANDARD DIE COMPONENTS

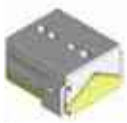
MAIN INDEX

| TDSA03-A | TDSA03-B | TDSA03-D | TDSA03-E | TDSA04-E |
|---|---|---|---|---|
|  |  |  |  |  |
| Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Coil guide roller<br>Bandführung<br>Guidanastro mobile | Stripper for blanking dies<br>Abstreifer für Platinenschnitte<br>Estrattore per stampi tranciasviluppo | Roller<br>Rolle<br>Rotella | Distance Plate<br>Abstimmscheibe<br>Distanziale |
| 345 | 345 | 346 | 346 | 347 |

| TDSA05-B | TDSA05-C | TDSA05-I | TDSA05-N | TDSA06-A |
|---|---|---|---|---|
|  |  |  |  |  |
| Support<br>Unterstützung<br>Supporto | Support<br>Unterstützung<br>Supporto | Elastomer stripper<br>Abstreifer<br>Estrattore per punzoni | Retainer<br>Haltestück<br>Ritegno per matrice | Locating cone<br>Kegeldistanz<br>Cono di centraggio |
| 347 | 348 | 349 | 350 | 350 |

| TDSA06-B | TDSA06-C | TDSA07-A | TDSA17-C | TDSA07-D |
|---|---|---|---|---|
|  |  |  |  |  |
| Flange lifter<br>Abstreifer<br>Sflangiatore | Flange lifter<br>Abstreifer<br>Sflangiatore | Positive return wear plate<br>Platte<br>Piastra di reazione | Balance block<br>Distanzstück<br>Distanziale | Cam buffer<br>Anschlag<br>Arresto |
| 351 | 352 | 352 | 353 | 353 |

| TDSA07-E | TDSA07-F | TDSA07-G | TDSA07-H | TDSA07-I |
|---|---|---|---|---|
|  |  |  |  |  |
| Buffer support<br>Dämpferhalterung<br>Supporto ammortizzatore | Coupling plate<br>Befestigungsplatte<br>Staffa di reazione | Coupling nut<br>Kupplungsmutter<br>Aggancio staffa | "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida a "V" VDI 3357 | "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida a "V" VDI 3357 |
| 354 | 354 | 355 | 355 | 356 |

| TDSA07-J | TDSA07-J | TDSA07-K | TDSA12-A | TDSA12-B |
|---|---|---|---|---|
|  |  |  |  |  |
| Positive return<br>Zwangrückholer<br>Gancio | "V" driver with positive return<br>Prismenführung mit zwangsrückholer<br>Guida a "V" con gancio di ritorno | "V" driver with positive return<br>Prismenführung mit zwangsrückholer<br>Guida a "V" con gancio di ritorno | Spacing bar<br>Abstellbolzen<br>Distanziale | Spacing bar<br>Abstellbolzen<br>Distanziale |
| 356 | 357 | 358 | 359 | 360 |

| TDSA12-B | TDSA13-A | TDSA13-A | TDSA13-B | TDSA13-C |
|---|---|---|---|---|
|  |  |  |  |  |
| Spacing bar<br>Abstellbolzen<br>Distanziale | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Guide post NAAMS<br>Führungssäule NAAMS<br>Colonna guida NAAMS | Guide post NAAMS<br>Führungssäule NAAMS<br>Colonna guida NAAMS |
| 361 | 362 | 363 | 364 | 365 |

| TDSA13-C | TDSA13-D | TDSA13-D | TDSA13-E | TDSA13-F |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post NAAMS<br>Führungssäule NAAMS<br>Colonna guida NAAMS | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida |
| 366 | 367 | 367 | 368 | 368 |

| TDSA13-F | TDSA13-G | TDSA13-H | TDSA13-I | TDSA13-J |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Führungssäule<br>Colonna guida | Guide post<br>Führungssäule<br>Colonna guida | Spacer plate toothed<br>Distanzplatte gezahnt<br>Tassello di compensazione | Stop Block<br>Abstandsblock<br>Distanziale | Stop Block<br>Anschlag<br>Blocchetto di arresto |
| 369 | 369 | 370 | 370 | 370 |

| TDSA13-J | TDSA13-K | TDSA13-L | TDSA13-L | TDSA14-D |
|---|---|---|---|---|
|  |  |  |  |  |
| Shim<br>Abstimmscheibe<br>Spessore | Toe clamp<br>Haltestück<br>Ritegno per boccola | Guide bush NAAMS<br>Fuhrungsbuchse NAAMS<br>Boccola autolubrificante NAAMS | Guide bush NAAMS<br>Fuhrungsbuchse NAAMS<br>Boccola autolubrificante NAAMS | Pad retainer pin<br>Steckbolzen<br>Perno di arresto |
| 371 | 372 | 372 | 373 | 373 |

| TDSA14-E | TDSA14-F | TDSA14-G | TDSA14-G | TDSA14-G |
|---|---|---|---|---|
|  |  |  |  |  |
| Buffer<br>Stossdämpfer<br>Ammortizzatore | Special retainer pin plate<br>Spezial-Haltestiftplatte<br>Piastra speciale per perno di arresto | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Anti-rebound pad retainer<br>Halteelement mit Dämpfung<br>Gruppo tirante antirimbalzo |
| 374 | 374 | 375 | 376 | 377 |

| TDSA14-H | TDSA14-I | TDSA14-J | TDSA14-K | TDSA14-L |
|---|---|---|---|---|
|  |  |  |  |  |
| Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Pad retainer pin<br>Steckbolzen<br>Perno di arresto |
| 378 | 379 | 380 | 380 | 381 |

| TDSA14-M | TDSA14-N | TDSA14-N | TDSA14-N | TDSA15-D |
|---|---|---|---|---|
|  |  |  |  |  |
| Elastomer cap<br>Elastomerdruckstück<br>Puntalino in elastomero | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Retainer bolt<br>Zugbolzensatz<br>Gruppo tirante | Locating Pin<br>Zentrierbolzen<br>Perno di centraggio |
| 381 | 382 | 383 | 384 | 385 |

| TDSA16-A | TDSA17-A | TDSA17-A | TDSA17-B | TDSA17-C |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito | Air pin<br>Druckbolzen unter<br>Candela | Air pin<br>Druckbolzen unter<br>Candela | Air pin<br>Unterluftbolzen<br>Candela | Air pin<br>Druckbolzen<br>Candela |
| 386 | 387 | 387 | 388 | 388 |

| TDSA17-G | TDSA17-H | TDSA17-H | TDSA20-B | TDSA20-D |
|---|---|---|---|---|
|  |  |  |  |  |
| Clamp<br>Haltestück<br>Staffa | Pressure plate<br>Druckplatte<br>Piastra di reazione | Pressure plate<br>Druckplatte<br>Piastra di reazione | Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Trademark stamp<br>Buchstabenstempel<br>Punzone marchio |
| 389 | 389 | 390 | 391 | 391 |

| TDSA20-D | TDSA20-D | TDSA20-E | TDSA20-G | TDSA20-H |
|---|---|---|---|---|
|  |  |  |  |  |
| Trademark stamp<br>Buchstabenstempel<br>Punzone marchio | Trademark stamp<br>Buchstabenstempel<br>Punzone marchio | Stamps<br>Buchstabenstempel<br>Punzone di marcatura | Retainer for stamps<br>Halteplatte<br>Portatimbri | Stamps<br>Buchstabenstempel<br>Punzone marchio |
| 391 | 392 | 392 | 392 | 393 |

| TDSA21-A | TDSA21-B | TDSA21-D | TDSA30-C | TDSA35-A |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di sollevamento | Threaded Steel Insert<br>Gewindeeinsatz für Guss<br>Inserto filettato per fusione | Standard key<br>Passfeder<br>Chiavetta | Spring plunger<br>Federne druckstücke<br>Espulsore a molla |
| 394 | 395 | 395 | 396 | 396 |

| TDSB13-C | TDSB13-C | TDSB13-E |
|---|---|---|
|  |  |  |
| Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Stop block<br>Abstandsblock<br>Distanziale |
| 397 | 398 | 399 |

# TDSA03-A

OMCR

## VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE

**Notes**

**Material:** X155CrVMo121
**HRC:** 58÷60

STOCK




FORM A25




FORM A30

ORDER EXAMPLE

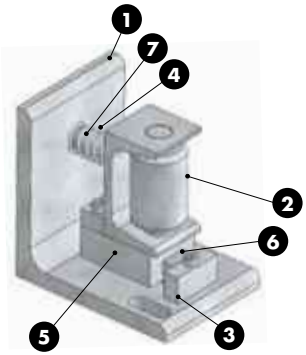
| JLR CODE |
|---|
| TDSA03-A30 |

| JLR CODE | D1 |
|---|---|
| TDSA03-A25 | 25 |
| TDSA03-A30 | 30 |

# TDSA03-B

OMCR

## COIL GUIDE ROLLER - BANDFÜHRUNG - GUIDANASTRO MOBILE




**Notes**

2 WDX3-70-2202-A

1 3 4 5 6 7 **Material:** Steel

STOCK

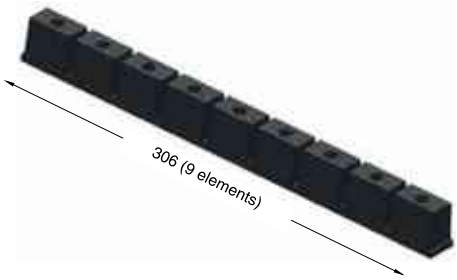
ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA03-B |

| JLR CODE |
|---|
| TDSA03-B |

# TDSA03-D

**STRIPPER FOR BLANKING DIES**
**ABSTREIFER FUR PLATINENSCHNITTE**
**ESTRATTORE PER STAMPI TRANCIASVILUPPO**




| Notes |
|---|
| **Material:** Elastomer 70SH |

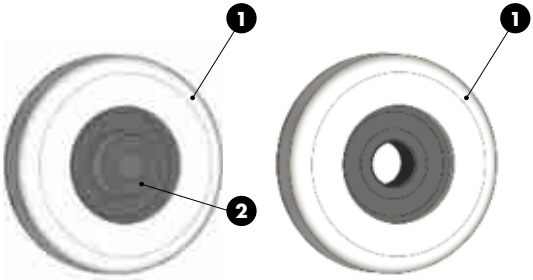
STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA03-D |

| JLR CODE |
|---|
| TDSA03-D |

# TDSA03-E

**ROLLER - ROLLE - ROTELLA**




**FORM A** **FORM B**

| Notes |
|---|
| 1 **Material:** Polyurethane 96 Shore |
| 2 Steel |

... STOCK

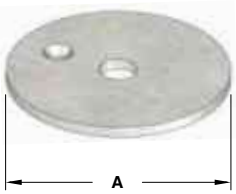
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA03-E1 |

| JLR CODE | FORM |
|---|---|
| TDSA03-E1 | A |
| TDSA03-E2 | B |

# TDSA04-E

OMCR

## DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE




**Notes**

**Material:** St37

STOCK

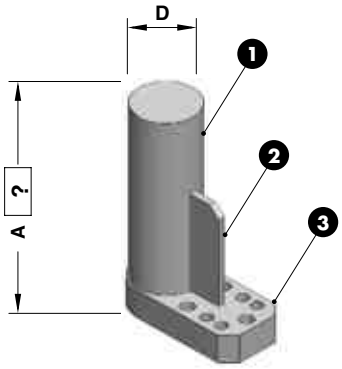
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA04-E100 |

| JLR CODE | A |
|---|---|
| TDSA04-E075 | 73 |
| TDSA04-E100 | 98 |

# TDSA05-B

OMCR

## SUPPORT - UNTERSTÜTZUNG - SUPPORTO




**Notes**

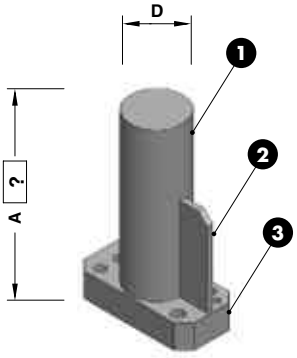
1 2 3 **Material:** C15

... STOCK

| ORDER EXAMPLE | JLR CODE | A=200 |
|---|---|---|
| | TDSA05-B70- | 200 |

| JLR CODE | D |
|---|---|
| TDSA05-B60- | 60 |
| TDSA05-B70- | 70 |
| TDSA05-B75- | 75 |

## SUPPORT - UNTERSTÜTZUNG - SUPPORTO




**Notes**

1 2 3 **Material:** C15

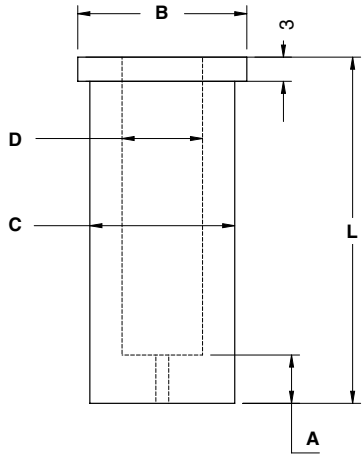
... STOCK

| ORDER EXAMPLE | JLR CODE | A=200 |
|---|---|---|
| | TDSA05-C70- | 200 |

| JLR CODE | D |
|---|---|
| TDSA05-C60- | 60 |
| TDSA05-C70- | 70 |
| TDSA05-C75- | 75 |

## ELASTOMER STRIPPER - ABSTREIFER - ESTRATTORE PER PUNZONI





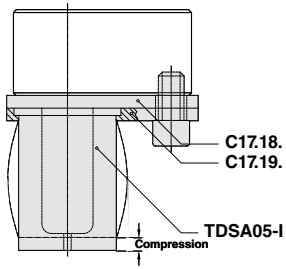

STOCK



**Notes**

**Material:** Elastomer 95SH A

**Application example**




* values for the stripping force are dependent on a number of parameters (e.g. lubricant, temperature etc.) and may vary from those given here.
** max spring travel should not exceed 15% of the length

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA05-I20-43 |

| JLR CODE | D | L | A | B | C |
|---|---|---|---|---|---|
| TDSA05-I10-43 | 10 | 43 | 6 | 21 | 18 |
| TDSA05-I10-63 | 10 | 63 | 6 | 21 | 18 |
| TDSA05-I13-43 | 13 | 43 | 6 | 26 | 23 |
| TDSA05-I13-63 | 13 | 63 | 6 | 26 | 23 |
| TDSA05-I16-43 | 16 | 43 | 6 | 33 | 30 |
| TDSA05-I16-63 | 16 | 63 | 6 | 33 | 30 |
| TDSA05-I20-43 | 20 | 43 | 7 | 36 | 33 |
| TDSA05-I20-63 | 20 | 63 | 7 | 36 | 33 |
| TDSA05-I25-43 | 25 | 43 | 7 | 43 | 40 |
| TDSA05-I25-63 | 25 | 63 | 7 | 43 | 40 |
| TDSA05-I32-43 | 32 | 43 | 7 | 54 | 50 |
| TDSA05-I32-63 | 32 | 63 | 7 | 54 | 50 |
| TDSA05-I40-43 | 40 | 43 | 7 | 64 | 60 |
| TDSA05-I40-63 | 40 | 63 | 7 | 64 | 60 |

| STROKE** | 3mm | 6mm | 9mm | 3mm | 6mm | 9mm |
|---|---|---|---|---|---|---|
| LENGHT | 43 | 43 | 43 | 63 | 63 | 63 |
| D | Stripping forces (N)* | | | | | |
| 10 | 1060 | 1820 | 2420 | 720 | 1450 | 1860 |
| 13 | 1700 | 2850 | 3820 | 1170 | 2320 | 2910 |
| 16 | 2514 | 4022 | 5229 | 1693 | 2709 | 3521 |
| 20 | 2900 | 4900 | 6490 | 2000 | 3950 | 5000 |
| 25 | 4440 | 7520 | 9680 | 3050 | 6050 | 7680 |
| 32 | 6840 | 11390 | 14660 | 4700 | 9310 | 11640 |
| 40 | 10100 | 20190 | 30290 | 6890 | 13780 | 20678 |

# TDSA05-N

## RETAINER - HALTESTÜCK - RITEGNO PER MATRICE



**Notes**

**Material:** C15

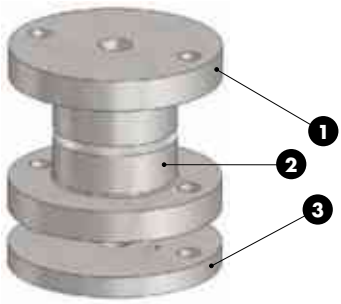
STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA05-N |

| JLR CODE |
|---|
| TDSA05-N |

# TDSA06-A

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO




**Notes**

1 2 **Material:** 16MnCr5
**HRC:** 58÷60

3 **Material:** CK45

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA06-A |

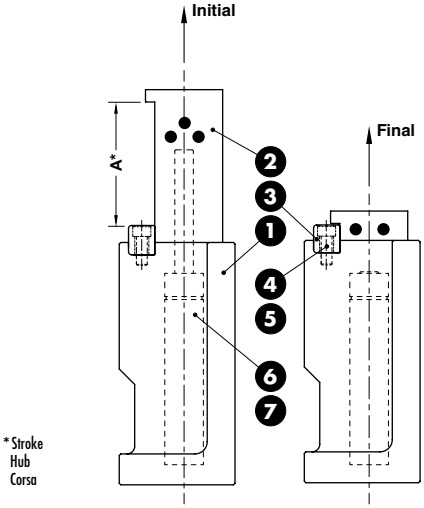
| JLR CODE |
|---|
| TDSA06-A |

## FLANGE LIFTER - ABSTREIFER - SFLANGIATORE



| Notes |
|---|
| 1 **Material:** EN-GJL300 |
| 2 **Material:** Bronze + Graphite - **HB**>190 |
| 3 **Material:** 36NiCrMo4 |
| 4 M8x30 DIN 912 |
| 5 Schnorr Ø8 |
| 6 Gas Spring |
| 7 M6x12 DIN 7991 |

STOCK ...




ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA06-B 80 050 |

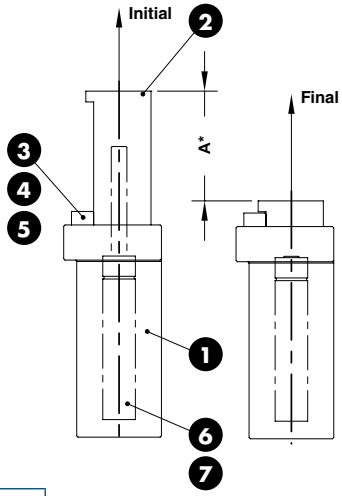
| JLR CODE | A | Initial (daN) | Final (daN) |
|---|---|---|---|
| TDSA06-B 50 050 | 50 | 50 | 86 |
| TDSA06-B 50 100 | 50 | 100 | 172 |
| TDSA06-B 50 150 | 50 | 150 | 258 |
| TDSA06-B 50 200 | 50 | 200 | 344 |
| TDSA06-B 80 050 | 80 | 50 | 86 |
| TDSA06-B 80 100 | 80 | 100 | 172 |
| TDSA06-B 80 150 | 80 | 150 | 258 |
| TDSA06-B 80 200 | 80 | 200 | 344 |

# TDSA06-C

OMCR

## FLANGE LIFTER - ABSTREIFER - SFLANGIATORE






* Stroke
Hub
Corsa

| Notes |
|---|
| 1 **Material:** EN-GJL300 |
| 2 **Material:** Bronze + Graphite - **HB**>190 |
| 3 **Material:** 36NiCrMo4 |
| 4 M8x30 DIN 912 |
| 5 Schnorr Ø8 |
| 6 Gas Spring |
| 7 M6x12 DIN 7991 |

STOCK ...

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA06-C 50 150 |

| JLR CODE | A | Initial (daN) | Final (daN) |
|---|---|---|---|
| TDSA06-C 50 050 | 50 | 50 | 86 |
| TDSA06-C 50 100 | 50 | 100 | 172 |
| TDSA06-C 50 150 | 50 | 150 | 258 |
| TDSA06-C 50 200 | 50 | 200 | 344 |
| TDSA06-C 80 050 | 80 | 50 | 86 |
| TDSA06-C 80 100 | 80 | 100 | 172 |
| TDSA06-C 80 150 | 80 | 150 | 258 |
| TDSA06-C 80 200 | 80 | 200 | 344 |

# TDSA07-A

OMCR

## POSITIVE RETURN WEAR PLATE - PLATTE - PIASTRA DI REAZIONE



TDSA07-A1



TDSA07-A2

| Notes |
|---|
| **Material:** C15 - **HRC**: 58÷60 |

STOCK

ORDER EXAMPLE

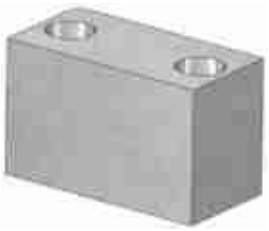
| JLR CODE |
|---|
| TDSA07-A2 |

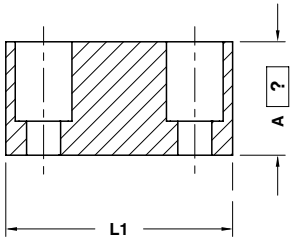
| JLR CODE |
|---|
| TDSA07-A1 |
| TDSA07-A2 |

# TDSA07-C

OMCR

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






**Notes**

**Material:** S235

10

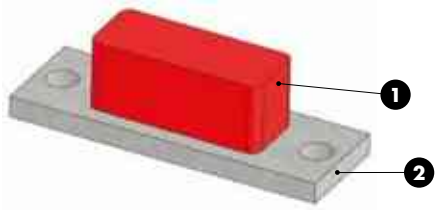
| ORDER EXAMPLE | JLR CODE | A=50 |
|---|---|---|
| | TDSA07-C1 | A050 |

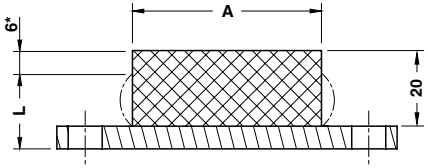
| JLR CODE | L1 |
|---|---|
| TDSA07-C1 | 100 |
| TDSA07-C2 | 150 |

# TDSA07-D

OMCR

## CAM BUFFER - ANSCHLAG - ARRESTO




**Notes**

1 **Material:** Polyurethane 90 SH

2 **Material:** St37

STOCK ...

*Max. deflection
Max. zul. Federweg
Deflessione massima

**Gegenkraft bei 6mm max. zul. Federweg
Max. reaction force with 6 mm deflection
Forza di reazione massima per deflessione di 6mm

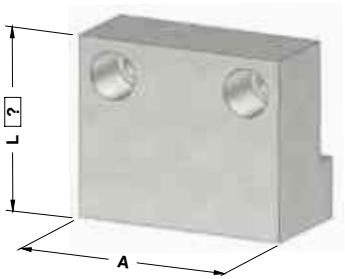
***Maximal absorbierte Energie bei 6 mm max. zul. Federweg
Massima energia assorbita con deflessione di 6 mm

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA07-D2 |

| JLR CODE | A | Force for length "L" (kN)** | Max energy absorbion with 6 mm deflection (J)*** |
|---|---|---|---|
| TDSA07-D1 | 50 | 10 | 30 |
| TDSA07-D2 | 100 | 20 | 60 |

# TDSA07-E

## BUFFER SUPPORT - DÄMPFERHALTERUNG - SUPPORTO AMMORTIZZATORE




**Notes**

**Material:** CK45

10

*Eigesetz mit nockendämpfer
Usato con cam buffer

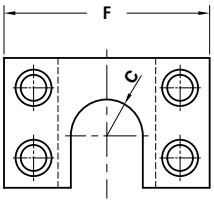
| ORDER EXAMPLE | JLR CODE | L=70 |
|---|---|---|
| | TDSA07-E1 | L070 |

| JLR CODE | A | Used with cam buffer* |
|---|---|---|
| TDSA07-E1 | 90 | TDSA07-D1 |
| TDSA07-E2 | 140 | TDSA07-D2 |

# TDSA07-F

## COUPLING PLATE - BEFESTIGUNGSPLATTE - STAFFA DI REAZIONE






**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA07-F2 |

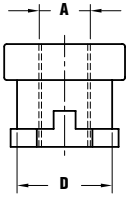
| JLR CODE | F | C |
|---|---|---|
| TDSA07-F1 | 80 | 14 |
| TDSA07-F2 | 100 | 20 |
| TDSA07-F3 | 120 | 25 |
| TDSA07-F4 | 150 | 33 |

# TDSA07-G

OMCR

## COUPLING NUT - KUPPLUNGSMUTTER - AGGANCIO STAFFA






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

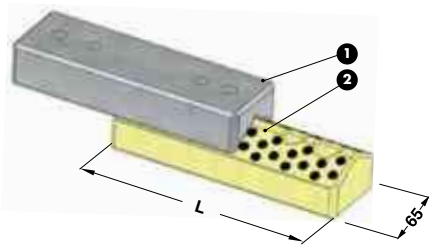
| JLR CODE |
|---|
| TDSA07-G3 |

| JLR CODE | A | D |
|---|---|---|
| TDSA07-G1 | M10x1.25 | 25 |
| TDSA07-G2 | M12x1.25 | 25 |
| TDSA07-G3 | M16x1.5 | 37 |
| TDSA07-G4 | M20x1.5 | 37 |
| TDSA07-G5 | M27x2 | 37 |
| TDSA07-G6 | M36x2 | 47 |
| TDSA07-G7 | M42x2 | 59 |

# TDSA07-H

OMCR

## "V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357




**Notes**

1. **Material:** CK45
   **HRC:** 58÷60
2. **Material:** Bronze + Graphite
   **HB** > 190

STOCK

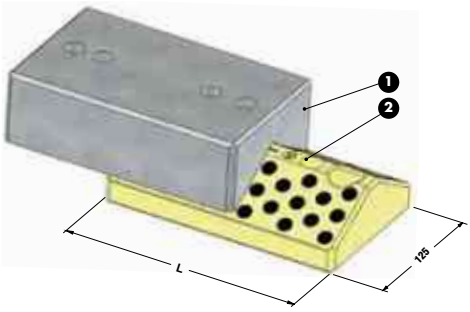
ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA07-H1 |

| JLR CODE | L |
|---|---|
| TDSA07-H1 | 150 |
| TDSA07-H2 | 200 |

# TDSA07-I

## "V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357




**Notes**

1. **Material:** CK45
   **HRC:** 58÷60
2. **Material:** Bronze + Graphite
   **HB** > 190

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA07-I1 |

| JLR CODE | L |
|---|---|
| TDSA07-I1 | 150 |
| TDSA07-I2 | 200 |

# TDSA07-J

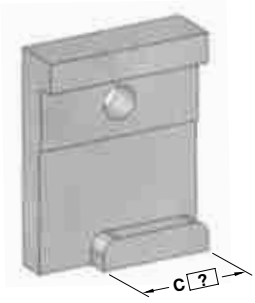
## POSITIVE RETURN - ZWANGRÜCKHOLER - GANCIO

**Notes**

**Material:** CK45 - **HRC:** 28÷30

10

**TYPE R**



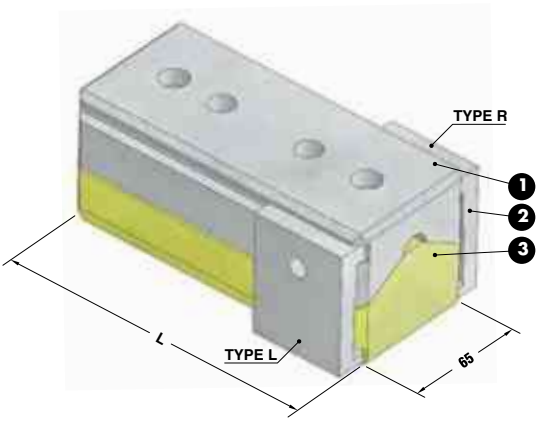

**TYPE L**




| ORDER EXAMPLE | JLR CODE | TYPE | C=24 |
|---|---|---|---|
| | TDSA07-J | R | C24 |

| JLR CODE |
|---|
| TDSA07-J |

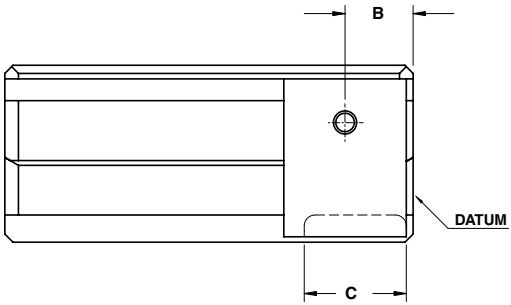
## "V" DRIVER WITH POSITIVE RETURN
## PRISMENFÜHRUNG MIT ZWANGSRÜCKHOLER
## GUIDA A "V" CON GANCIO DI RITORNO




**Notes**

1. **Material:** CK45 - **HRC:** 58÷60
2. **Material:** 42CrMo4
3. **Material:** Bronze + Graphite **HB** > 190



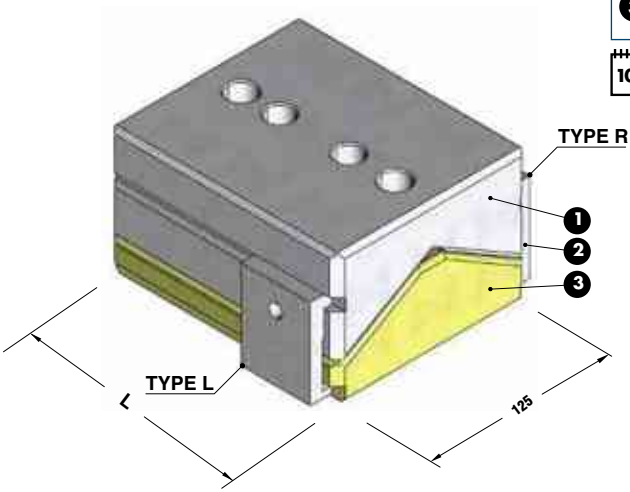

| ORDER EXAMPLE | JLR CODE | B=26 | C=24 | TYPE |
|---|---|---|---|---|
| | TDSA07-J1 | B26 | C24 | R |

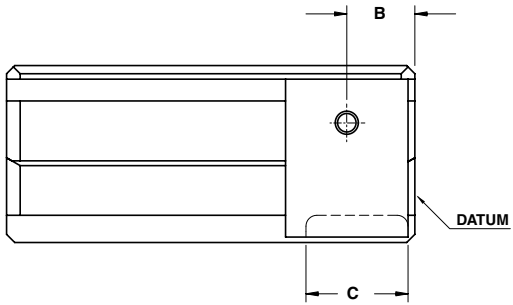
| JLR CODE | L | Clamp | TYPE |
|---|---|---|---|
| TDSA07-J1 | 150 | RIGHT | R |
| TDSA07-J1 | 150 | LEFT | L |
| TDSA07-J1 | 150 | BOTH | RL |
| TDSA07-J2 | 200 | RIGHT | R |
| TDSA07-J2 | 200 | LEFT | L |
| TDSA07-J2 | 200 | BOTH | RL |

## "V" DRIVER WITH POSITIVE RETURN
## PRISMENFÜHRUNG MIT ZWANGSRÜCKHOLER
## GUIDA A "V" CON GANCIO DI RITORNO

**Notes**

1. **Material:** CK45 - **HRC:** 58÷60
2. **Material:** 42CrMo4
3. **Material:** Bronze + Graphite **HB** > 190

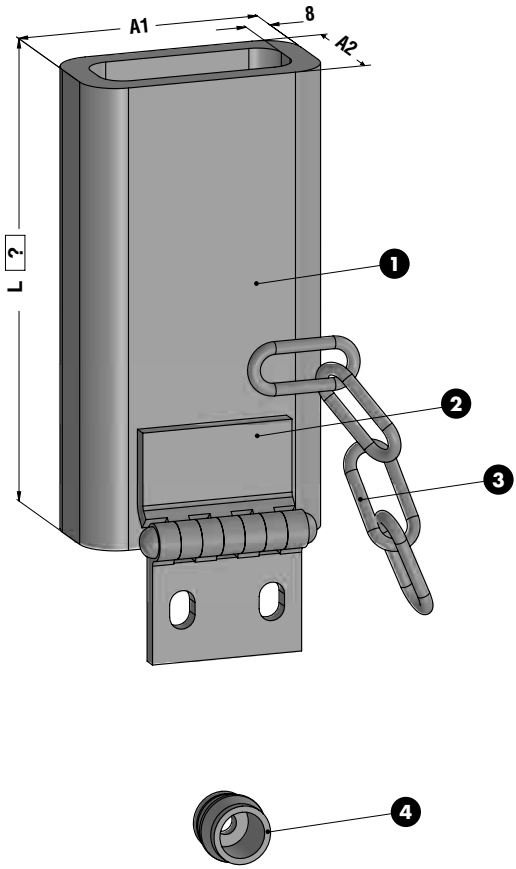



| ORDER EXAMPLE | JLR CODE | B=26 | C=24 | TYPE |
|---|---|---|---|---|
| | TDSA07-K1 | B26 | C24 | R |

| JLR CODE | L | Clamp | TYPE |
|---|---|---|---|
| TDSA07-K1 | 150 | RIGHT | R |
| TDSA07-K1 | 150 | LEFT | L |
| TDSA07-K1 | 150 | BOTH | RL |
| TDSA07-K2 | 200 | RIGHT | R |
| TDSA07-K2 | 200 | LEFT | L |
| TDSA07-K2 | 200 | BOTH | RL |

## "SPACING BAR - ABSTELLBOLZEN - DISTANZIALE




L max. = 400

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

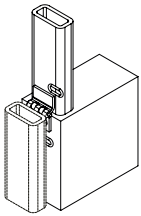
### Notes

1 2 3 **Material:** Steel

4 **Material:** CO-Polyester Elastomer

STOCK ...

### Application example



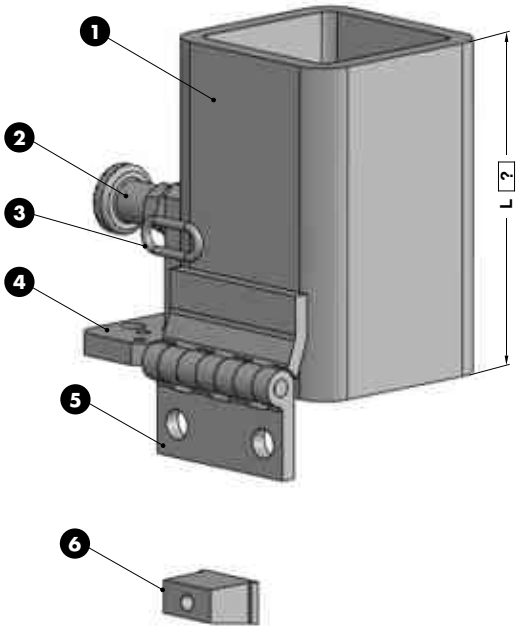
Standard JLR

| ORDER EXAMPLE | JLR CODE | L=150 |
|---|---|---|
| | TDSA12-A | L150 |

| JLR CODE | A1 | A2 |
|---|---|---|
| TDSA12-A | 80 | 40 |

## "SPACING BAR - ABSTELLBOLZEN - DISTANZIALE

STOCK




L max. = 400

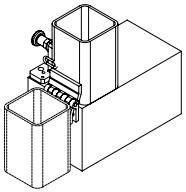
Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

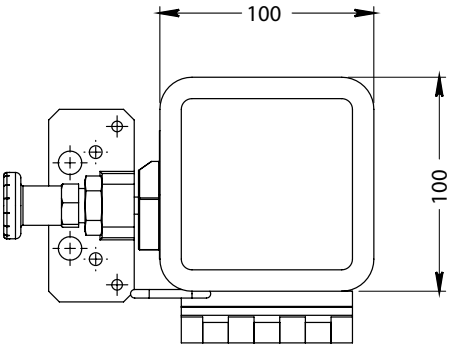
1 2 3 4 5 **Material:** Steel

6 **Material:** Elastomer

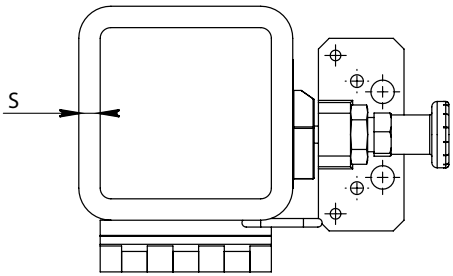
### Application example



**TYPE L**



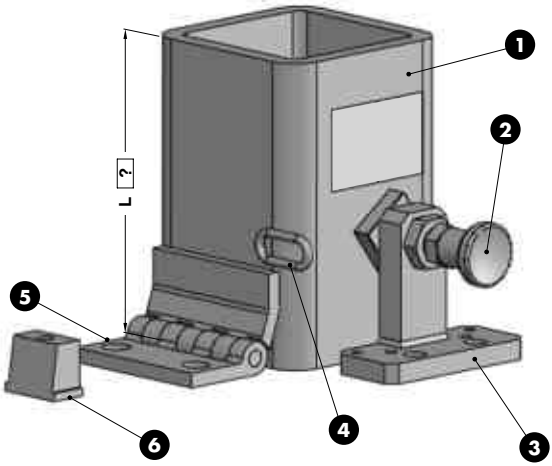

**TYPE R**




| ORDER EXAMPLE | JLR CODE | L=150 |
|---|---|---|
| | TDSA12-B3-L | 150 |

| JLR CODE | S | TYPE |
|---|---|---|
| TDSA12-B1-L | 10 | L |
| TDSA12-B1-R | 10 | R |
| TDSA12-B3-L | 5 | L |
| TDSA12-B3-R | 5 | R |

## "SPACING BAR - ABSTELLBOLZEN - DISTANZIALE




L max. = 400

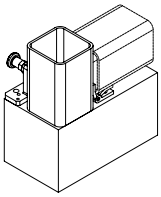
Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1 2 3 4 5 **Material:** Steel

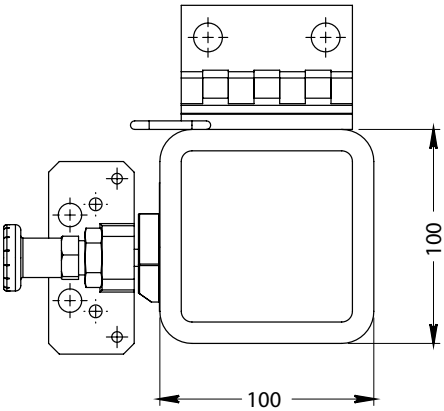
6 **Material:** Elastomer

### Application example

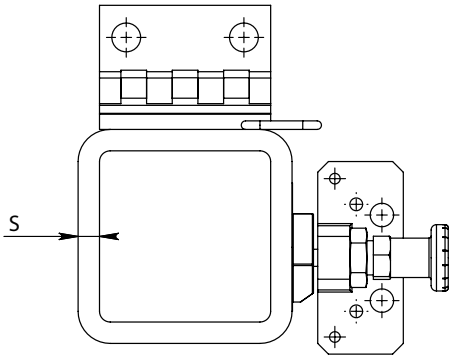




**TYPE L**




**TYPE R**




| ORDER EXAMPLE | JLR CODE | L=150 |
|---|---|---|
| | TDSA12-B2-R | 150 |

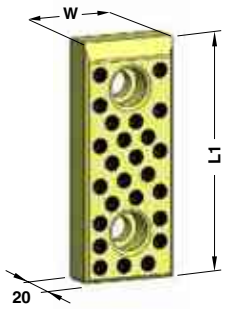
| JLR CODE | S | TYPE |
|---|---|---|
| TDSA12-B2-L | 10 | L |
| TDSA12-B2-R | 10 | R |
| TDSA12-B4-L | 5 | L |
| TDSA12-B4-R | 5 | R |

## WEAR PLATE VDI 3357 - GLEITPLATTE VDI 3357 - PIASTRA GUIDA VDI 3357

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




**FORM A**



**FORM B**



**FORM C**

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA13-A 100 100-Y |

| JLR CODE | W | L | FORM |
|---|---|---|---|
| TDSA13-A 50 100-Y | 50 | 100 | A |
| TDSA13-A 50 160-Y | 50 | 160 | A |
| TDSA13-A 50 200-Y | 50 | 200 | A |
| TDSA13-A 80 100-Y | 80 | 100 | A |
| TDSA13-A 80 160-Y | 80 | 160 | A |
| TDSA13-A 80 200-Y | 80 | 200 | A |
| TDSA13-A 80 250-Y | 80 | 250 | A |
| TDSA13-A 80 315-Y | 80 | 315 | A |
| TDSA13-A 100 50-Y | 100 | 50 | A |
| TDSA13-A 100 100-Y | 100 | 100 | A |
| TDSA13-A 100 160-Y | 100 | 160 | A |
| TDSA13-A 100 200-Y | 100 | 200 | A |
| TDSA13-A 100 250-Y | 100 | 250 | A |
| TDSA13-A 100 315-Y | 100 | 315 | A |
| TDSA13-A 125 100-Y | 125 | 100 | B |
| TDSA13-A 125 160-Y | 125 | 160 | B |
| TDSA13-A 125 200-Y | 125 | 200 | B |
| TDSA13-A 125 250-Y | 125 | 250 | B |
| TDSA13-A 125 315-Y | 125 | 315 | B |
| TDSA13-A 160 100-Y | 160 | 100 | B |
| TDSA13-A 160 160-Y | 160 | 160 | B |
| TDSA13-A 160 200-Y | 160 | 200 | B |
| TDSA13-A 160 250-Y | 160 | 250 | C |
| TDSA13-A 160 315-Y | 160 | 315 | C |

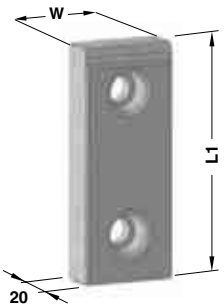
## WEAR PLATE VDI 3357 - GLEITPLATTE VDI 3357 - PIASTRA GUIDA VDI 3357

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK






**FORM A**



**FORM B**



**FORM C**

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA13-A 125 200-X |

| JLR CODE | W | L | FORM |
|---|---|---|---|
| TDSA13-A 50 100-Y | 50 | 100 | A |
| TDSA13-A 50 160-Y | 50 | 160 | A |
| TDSA13-A 50 200-Y | 50 | 200 | A |
| TDSA13-A 80 100-Y | 80 | 100 | A |
| TDSA13-A 80 160-Y | 80 | 160 | A |
| TDSA13-A 80 200-Y | 80 | 200 | A |
| TDSA13-A 80 250-Y | 80 | 250 | A |
| TDSA13-A 80 315-Y | 80 | 315 | A |
| TDSA13-A 100 50-Y | 100 | 50 | A |
| TDSA13-A 100 100-Y | 100 | 100 | A |
| TDSA13-A 100 160-Y | 100 | 160 | A |
| TDSA13-A 100 200-Y | 100 | 200 | A |
| TDSA13-A 100 250-Y | 100 | 250 | A |
| TDSA13-A 100 315-Y | 100 | 315 | A |
| TDSA13-A 125 100-Y | 125 | 100 | B |

| JLR CODE | W | L | FORM |
|---|---|---|---|
| TDSA13-A 125 160-X | 125 | 160 | B |
| TDSA13-A 125 200-X | 125 | 200 | B |
| TDSA13-A 125 250-X | 125 | 250 | B |
| TDSA13-A 125 315-X | 125 | 315 | B |
| TDSA13-A 160 100-X | 160 | 100 | B |
| TDSA13-A 160 160-X | 160 | 160 | B |
| TDSA13-A 160 200-X | 160 | 200 | B |
| TDSA13-A 160 250-X | 160 | 250 | C |
| TDSA13-A 160 315-X | 160 | 315 | C |

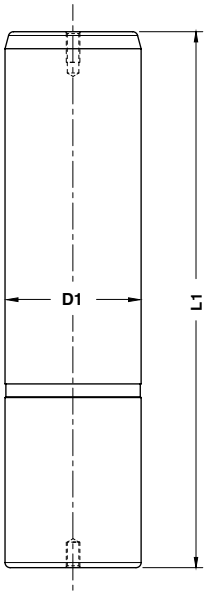
## GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10




ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA13-B 80 355 |

| JLR CODE | D1 | L1 | JLR CODE | D1 | L1 |
|---|---|---|---|---|---|
| TDSA13-B 25 140 | 25 | 140 | TDSA13-B 50 315 | 50 | 315 |
| TDSA13-B 25 160 | 25 | 160 | TDSA13-B 63 200 | 63 | 200 |
| TDSA13-B 25 180 | 25 | 180 | TDSA13-B 63 224 | 63 | 224 |
| TDSA13-B 32 140 | 32 | 140 | TDSA13-B 63 250 | 63 | 250 |
| TDSA13-B 32 160 | 32 | 160 | TDSA13-B 63 280 | 63 | 280 |
| TDSA13-B 32 180 | 32 | 180 | TDSA13-B 63 315 | 63 | 315 |
| TDSA13-B 32 200 | 32 | 200 | TDSA13-B 63 355 | 63 | 355 |
| TDSA13-B 40 160 | 40 | 160 | TDSA13-B 63 400 | 63 | 400 |
| TDSA13-B 40 180 | 40 | 180 | TDSA13-B 80 250 | 80 | 250 |
| TDSA13-B 40 200 | 40 | 200 | TDSA13-B 80 280 | 80 | 280 |
| TDSA13-B 40 224 | 40 | 224 | TDSA13-B 80 315 | 80 | 315 |
| TDSA13-B 40 250 | 40 | 250 | TDSA13-B 80 355 | 80 | 355 |
| TDSA13-B 50 160 | 50 | 160 | TDSA13-B 80 400 | 80 | 400 |
| TDSA13-B 50 180 | 50 | 180 | TDSA13-B 80 500 | 80 | 500 |
| TDSA13-B 50 200 | 50 | 200 | TDSA13-B 100 315 | 100 | 315 |
| TDSA13-B 50 224 | 50 | 224 | TDSA13-B 100 355 | 100 | 355 |
| TDSA13-B 50 250 | 50 | 250 | TDSA13-B 100 400 | 100 | 400 |
| TDSA13-B 50 280 | 50 | 280 | TDSA13-B 100 500 | 100 | 500 |

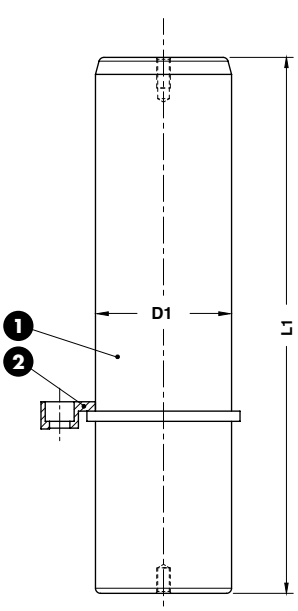
## GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS





**Notes**

1. **Material:** 16MnCr5
   **HRC:** 60÷62
2. **Material:** CK45
   E47.11.323216




ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA13-C 50 160-A |

| JLR CODE | D1 | L1 | Toe clamp qty. |
|---|---|---|---|
| TDSA13-C 25 140-A | 25 | 140 | 2 |
| TDSA13-C 25 160-A | 25 | 160 | 2 |
| TDSA13-C 25 180-A | 25 | 180 | 2 |
| TDSA13-C 32 140-A | 32 | 140 | 2 |
| TDSA13-C 32 160-A | 32 | 160 | 2 |
| TDSA13-C 32 180-A | 32 | 180 | 2 |
| TDSA13-C 32 200-A | 32 | 200 | 2 |
| TDSA13-C 40 160-A | 40 | 160 | 2 |
| TDSA13-C 40 180-A | 40 | 180 | 2 |
| TDSA13-C 40 200-A | 40 | 200 | 2 |
| TDSA13-C 40 224-A | 40 | 224 | 2 |
| TDSA13-C 40 250-A | 40 | 250 | 2 |
| TDSA13-C 50 160-A | 50 | 160 | 2 |
| TDSA13-C 50 180-A | 50 | 180 | 2 |
| TDSA13-C 50 200-A | 50 | 200 | 2 |
| TDSA13-C 50 224-A | 50 | 224 | 2 |
| TDSA13-C 50 250-A | 50 | 250 | 2 |
| TDSA13-C 50 280-A | 50 | 280 | 2 |

| JLR CODE | D1 | L1 | Toe clamp qty. |
|---|---|---|---|
| TDSA13-C 50 315-A | 50 | 315 | 2 |
| TDSA13-C 63 200-A | 63 | 200 | 3 |
| TDSA13-C 63 224-A | 63 | 224 | 3 |
| TDSA13-C 63 250-A | 63 | 250 | 3 |
| TDSA13-C 63 280-A | 63 | 280 | 3 |
| TDSA13-C 63 315-A | 63 | 315 | 3 |
| TDSA13-C 63 355-A | 63 | 355 | 3 |
| TDSA13-C 63 400-A | 63 | 400 | 3 |
| TDSA13-C 80 250-A | 80 | 250 | 3 |
| TDSA13-C 80 280-A | 80 | 280 | 3 |
| TDSA13-C 80 315-A | 80 | 315 | 3 |
| TDSA13-C 80 355-A | 80 | 355 | 3 |
| TDSA13-C 80 400-A | 80 | 400 | 3 |
| TDSA13-C 80 500-A | 80 | 500 | 3 |
| TDSA13-C 100 315-A | 100 | 315 | 3 |
| TDSA13-C 100 355-A | 100 | 355 | 3 |
| TDSA13-C 100 400-A | 100 | 400 | 3 |
| TDSA13-C 100 500-A | 100 | 500 | 3 |

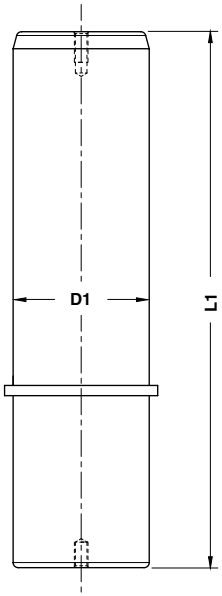
## GUIDE POST NAAMS - FÜHRUNGSSÄULE NAAMS - COLONNA GUIDA NAAMS



**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10



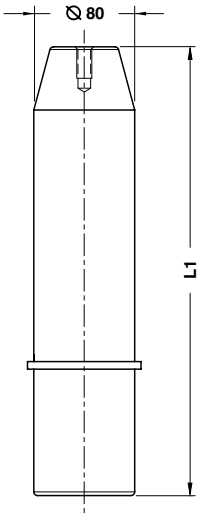

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA13-C 80 355 |

| JLR CODE | D1 | L1 | JLR CODE | D1 | L1 |
|---|---|---|---|---|---|
| TDSA13-C 25 140 | 25 | 140 | TDSA13-C 50 315 | 50 | 315 |
| TDSA13-C 25 160 | 25 | 160 | TDSA13-C 63 200 | 63 | 200 |
| TDSA13-C 25 180 | 25 | 180 | TDSA13-C 63 224 | 63 | 224 |
| TDSA13-C 32 140 | 32 | 140 | TDSA13-C 63 250 | 63 | 250 |
| TDSA13-C 32 160 | 32 | 160 | TDSA13-C 63 280 | 63 | 280 |
| TDSA13-C 32 180 | 32 | 180 | TDSA13-C 63 315 | 63 | 315 |
| TDSA13-C 32 200 | 32 | 200 | TDSA13-C 63 355 | 63 | 355 |
| TDSA13-C 40 160 | 40 | 160 | TDSA13-C 63 400 | 63 | 400 |
| TDSA13-C 40 180 | 40 | 180 | TDSA13-C 80 250 | 80 | 250 |
| TDSA13-C 40 200 | 40 | 200 | TDSA13-C 80 280 | 80 | 280 |
| TDSA13-C 40 224 | 40 | 224 | TDSA13-C 80 315 | 80 | 315 |
| TDSA13-C 40 250 | 40 | 250 | TDSA13-C 80 355 | 80 | 355 |
| TDSA13-C 50 160 | 50 | 160 | TDSA13-C 80 400 | 80 | 400 |
| TDSA13-C 50 180 | 50 | 180 | TDSA13-C 80 500 | 80 | 500 |
| TDSA13-C 50 200 | 50 | 200 | TDSA13-C 100 315 | 100 | 315 |
| TDSA13-C 50 224 | 50 | 224 | TDSA13-C 100 355 | 100 | 355 |
| TDSA13-C 50 250 | 50 | 250 | TDSA13-C 100 400 | 100 | 400 |
| TDSA13-C 50 280 | 50 | 280 | TDSA13-C 100 500 | 100 | 500 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

10



| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-D355 |

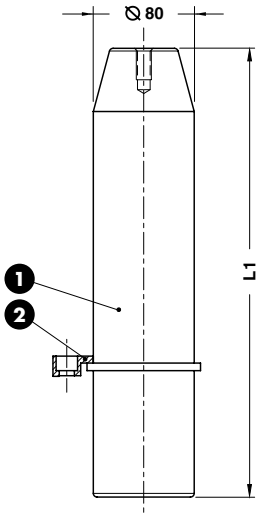
| JLR CODE | L1 |
|---|---|
| TDSA13-D315 | 315 |
| TDSA13-D355 | 355 |
| TDSA13-D400 | 400 |

TDSA13-D

OMCR

GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

1. **Material:** 16MnCr5
   **HRC:** 58÷60
2. **Material:** CK45
   E47.11.323216

10

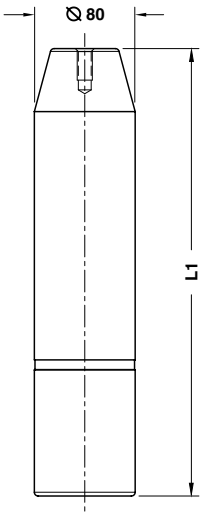
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-D355-A |

| JLR CODE | L1 | Toe clamp qty. |
|---|---|---|
| TDSA13-D315-A | 315 | 3 |
| TDSA13-D355-A | 355 | 3 |
| TDSA13-D400-A | 400 | 3 |

# TDSA13-E

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

10

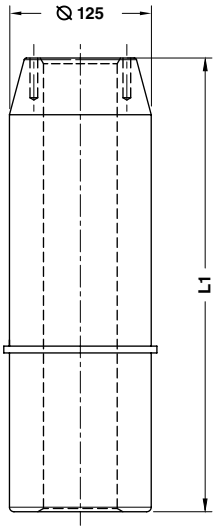
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-E315 |

| JLR CODE | L1 |
|---|---|
| TDSA13-E315 | 315 |
| TDSA13-E355 | 355 |
| TDSA13-E400 | 400 |

# TDSA13-F

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA






**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10

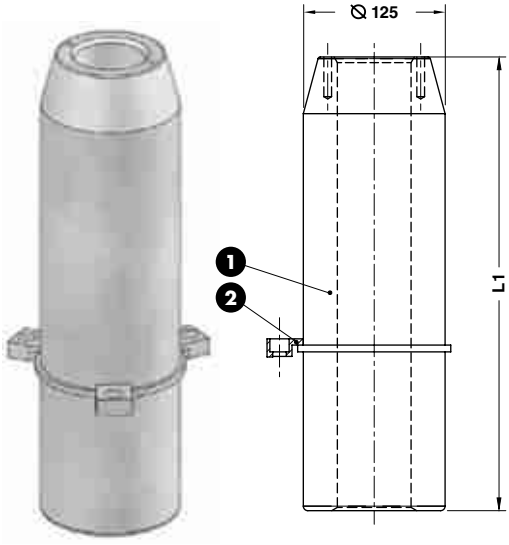
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-F450 |

| JLR CODE | L1 |
|---|---|
| TDSA13-F400 | 400 |
| TDSA13-F450 | 450 |
| TDSA13-F500 | 500 |

# TDSA13-F

OMCR

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA




**Notes**

1. **Material:** 16MnCr5
   **HRC:** 60÷62
2. **Material:** CK45
   E47.11.323216

10

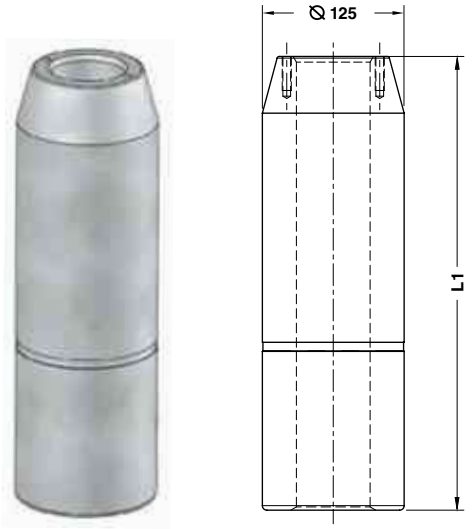
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-F450-A |

| JLR CODE | L1 | Toe clamp qty. |
|---|---|---|
| TDSA13-F400-A | 400 | 3 |
| TDSA13-F450-A | 450 | 3 |
| TDSA13-F500-A | 500 | 3 |

# TDSA13-G

OMCR

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA




**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10

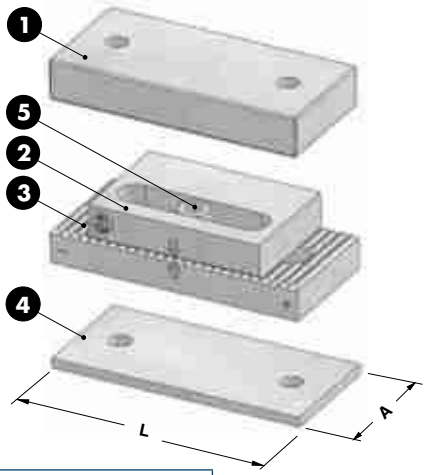
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-G450 |

| JLR CODE | L1 |
|---|---|
| TDSA13-G400 | 400 |
| TDSA13-G450 | 450 |
| TDSA13-G500 | 500 |

# TDSA13-H

OMCR

## SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE




**Notes**

1 2 3 **Material:** 90MnCrV8 - **HRC**: 58÷60

4 **Material:** St52

5 DIN 912

STOCK ...

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA13-H |

| JLR CODE | L | A |
|---|---|---|
| TDSA13-H | 130 | 60 |

# TDSA13-I

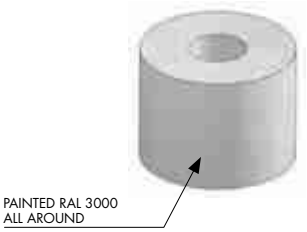
OMCR

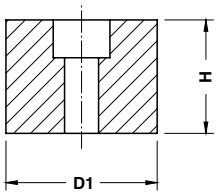
## STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE

**Notes**

**Material:** CK45

STOCK




ORDER EXAMPLE

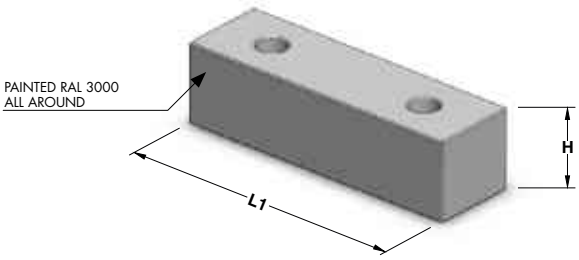
| JLR CODE |
|---|
| TDSA13-I060 |

| JLR CODE | D1 | H |
|---|---|---|
| TDSA13-I040 | 40 | 30 |
| TDSA13-I060 | 60 | 50 |
| TDSA13-I100 | 100 | 50 |

## STOP BLOCK - ANSCHLAG - BLOCCHETTO DI ARRESTO

| Notes |
|---|
| **Material:** CK45 |

STOCK




| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-J1 |

| JLR CODE | L1 | H |
|---|---|---|
| TDSA13-J1 | 200 | 55 |

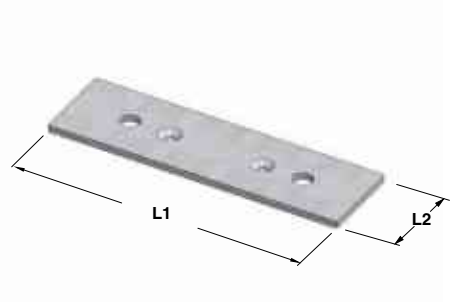


TDSA13-J OMCR

## SHIM - ABSTIMMSCHEIBE - SPESSORE

| Notes |
|---|
| **Material:** CK45 |

STOCK




| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-J2 v2 |

| JLR CODE | L1 | L2 |
|---|---|---|
| TDSA13-J2 v2 | 200 | 60 |

# TDSA13-K

## TOE CLAMP - HALTESTÜCK - RITEGNO

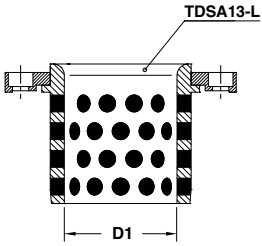


STOCK

**Notes**

**Material:** CK45

**Application example**




| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-K |

| JLR CODE |
|---|
| TDSA13-K |

# TDSA13-L

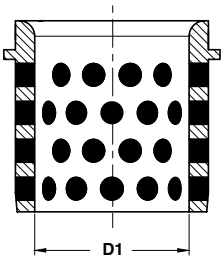
## GUIDE BUSH NAAMS - FÜHRUNGSBUCHSE NAAMS - BOCCOLA AUTOLUBRIFICANTE NAAMS



**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-L40 |

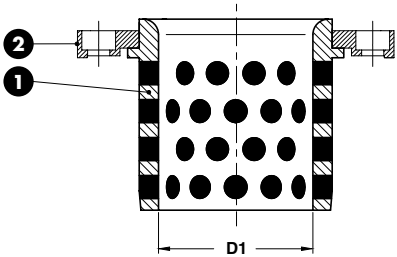
| JLR CODE | D1 |
|---|---|
| TDSA13-L25 | 25 |
| TDSA13-L32 | 32 |
| TDSA13-L40 | 40 |
| TDSA13-L50 | 50 |
| TDSA13-L63 | 63 |
| TDSA13-L80 | 80 |
| TDSA13-L100 | 100 |
| TDSA13-L125 | 125 |

# TDSA13-L

OMCR

## GUIDE BUSH NAAMS - FÜHRUNGSBUCHSE NAAMS - BOCCOLA AUTOLUBRIFICANTE NAAMS






**Notes**

1. **Material:** Bronze + Graphite **HB** > 190
2. **Material:** CK45 - E47.11.323216

STOCK ... ↕

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA13-L40-A |

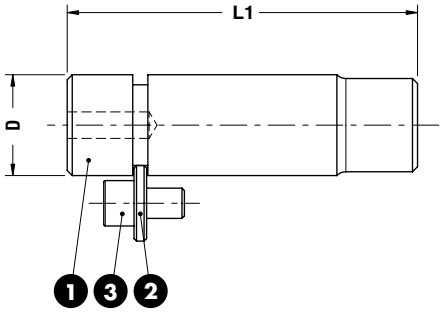
| JLR CODE | D1 | Toe clamp qty. |
|---|---|---|
| TDSA13-L 25-A | 25 | 1 |
| TDSA13-L 32-A | 32 | 1 |
| TDSA13-L 40-A | 40 | 1 |
| TDSA13-L 50-A | 50 | 1 |
| TDSA13-L 63-A | 63 | 2 |
| TDSA13-L 80-A | 80 | 2 |
| TDSA13-L 100-A | 100 | 2 |
| TDSA13-L 125-A | 125 | 2 |

# TDSA14-D

OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** CK45
2. **Material**: St37
3. DIN 912 M12x20

STOCK ...

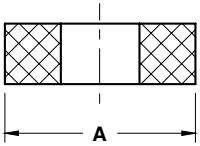
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA14-D35 |

| JLR CODE | D | L |
|---|---|---|
| TDSA14-D25 | 25 | 110 |
| TDSA14-D35 | 35 | 130 |
| TDSA14-D50 | 50 | 170 |
| TDSA14-D63 | 63 | 210 |

# TDSA14-E

**BUFFER - STOSSDÄMPFER - AMMORTIZZATORE**






| Notes |
|---|
| **Material:** Elastomer 92 SH |

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA14-E24 |

| JLR CODE | Size | A |
|---|---|---|
| TDSA14-E16 | M16 | 50 |
| TDSA14-E20 | M20 | 63 |
| TDSA14-E24 | M24 | 80 |
| TDSA14-E30 | M30 | 100 |

# TDSA14-F

**SPECIAL RETAINER PIN PLATE**
**SPEZIAL-HALTESTIFTPLATTE**
**PIASTRA SPECIALE PER PERNO DI ARRESTO**



| Notes |
|---|
| **Material:** S235JR |

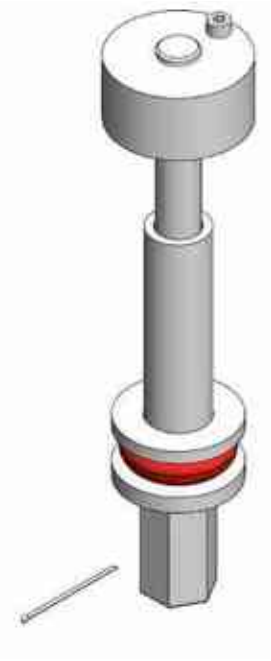
STOCK

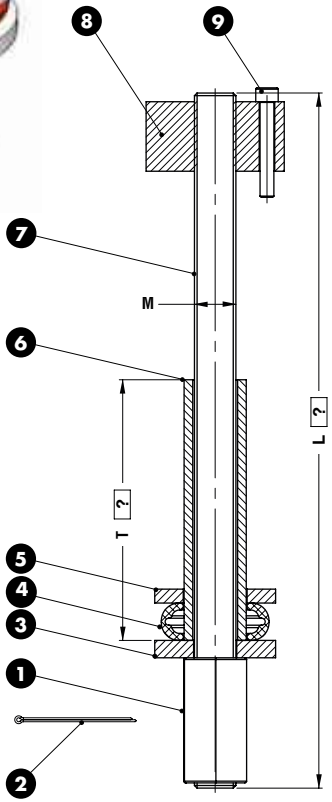
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA14-F |

| JLR CODE |
|---|
| TDSA14-F |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE








Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

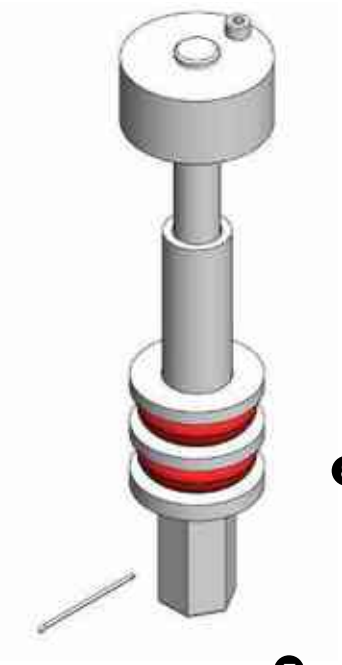
1. Hexagon connecting nuts DIN 6334
2. Split Pin. DIN EN ISO 1234
3. Material: CK45 - HRC: 30÷34
4. Material: CO-Polyester Elastomer
5. Material: 90MnCrV8 - HRC: 54÷58
6. Tube
7. Material: Thread rod cl 12.9
8. Material: CK45
9. DIN 912

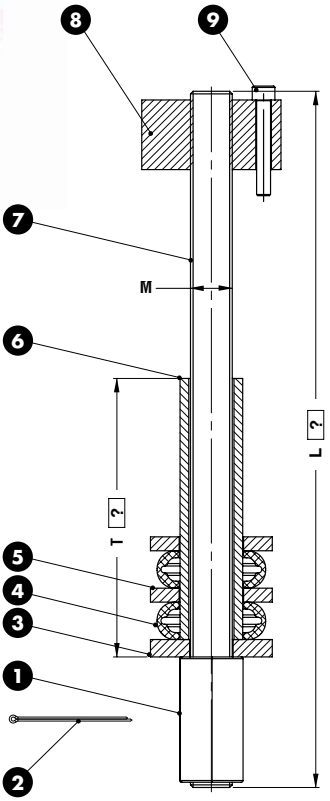
10 ...

| ORDER EXAMPLE | JLR CODE | M=M24 | T=160 | L=381 |
|---|---|---|---|---|
| | TDSA14-G1 | M24 | T160 | L381 |

| JLR CODE | Y max |
|---|---|
| TDSA14-G1 M16 | M16 |
| TDSA14-G1 M20 | M20 |
| TDSA14-G1 M24 | M24 |
| TDSA14-G1 M30 | M30 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE






Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. Hexagon connecting nuts DIN 6334
2. Split Pin. DIN EN ISO 1234
3. Material: CK45 - HRC: 30÷34
4. Material: CO-Polyester Elastomer
5. Material: 90MnCrV8 - HRC: 54÷58
6. Tube
7. Material: Thread rod cl 12.9
8. Material: CK45
9. DIN 912

10 ...

| ORDER EXAMPLE | JLR CODE | M=M24 | T=160 | L=381 |
|---|---|---|---|---|
| | TDSA14-G2 | M24 | T160 | L381 |

| JLR CODE | Y max |
|---|---|
| TDSA14-G2 M16 | M16 |
| TDSA14-G2 M20 | M20 |
| TDSA14-G2 M24 | M24 |
| TDSA14-G2 M30 | M30 |

# ANTI-REBOUND PAD RETAINER
# HALTEELEMENT MIT DÄMPFUNG
# GRUPPO TIRANTE ANTIRIMBALZO

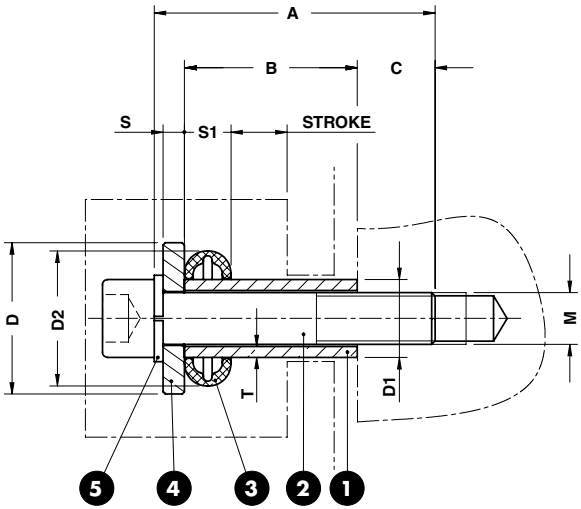


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

## Notes

1. **Material:** St37
2. DIN 912 cl. 8.8
3. C17.27
4. **Material:** CK45
5. DIN 127

STOCK ...




**For dimensioning see pages <?>-<?>**
**Dimensionierung s. Seiten <?>-<?>**
**Per il dimensionamento vedi pagine <?>-<?>**

| ORDER EXAMPLE | JLR CODE | M=M24 | B=125 |
|---|---|---|---|
| | TDSA14-G3 | M24 | B125 |

| JLR CODE | M | B |
|---|---|---|
| TDSA14-G3 M10 B040 | M10 | 40 |
| TDSA14-G3 M10 B050 | M10 | 50 |
| TDSA14-G3 M10 B063 | M10 | 63 |
| TDSA14-G3 M10 B100 | M10 | 100 |
| TDSA14-G3 M12 B050 | M12 | 50 |
| TDSA14-G3 M12 B063 | M12 | 63 |
| TDSA14-G3 M12 B080 | M12 | 80 |
| TDSA14-G3 M12 B100 | M12 | 100 |
| TDSA14-G3 M16 B063 | M16 | 63 |
| TDSA14-G3 M16 B080 | M16 | 80 |
| TDSA14-G3 M16 B100 | M16 | 100 |
| TDSA14-G3 M16 B125 | M16 | 125 |
| TDSA14-G3 M20 B080 | M20 | 80 |
| TDSA14-G3 M20 B125 | M20 | 125 |
| TDSA14-G3 M24 B080 | M24 | 80 |
| TDSA14-G3 M24 B100 | M24 | 100 |
| TDSA14-G3 M24 B125 | M24 | 125 |
| TDSA14-G3 M30 B080 | M30 | 80 |
| TDSA14-G3 M30 B100 | M30 | 100 |
| TDSA14-G3 M30 B125 | M30 | 125 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

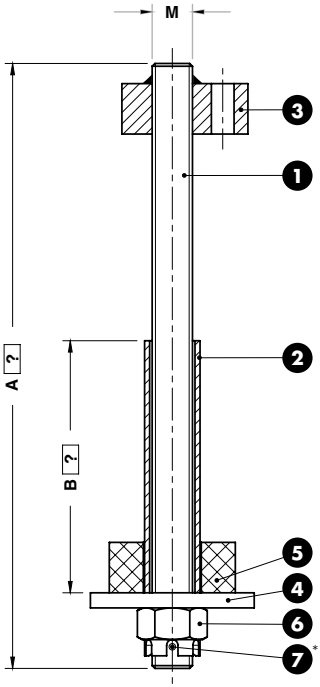


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. Tube DIN 2391
3. **Material:** St37
4. **Material:** CK45
5. **Material:** Elastomer 92SH
6. Hexagon castle nut DIN 935
7. Split Pin. DIN EN ISO 1234






ORDER EXAMPLE

| JLR CODE | M=M20 | B=160 | A=352 |
|---|---|---|---|
| TDSA14-H | M20 | B160 | A352 |

| JLR CODE | M |
|---|---|
| TDSA14-H M16 | M16 |
| TDSA14-H M20 | M20 |
| TDSA14-H M24 | M24 |
| TDSA14-H M30 | M30 |

*Drill hole in rod for copper pin at assembly
Bohrung für splint durchzuführen bei der montage
Foro per coppiglia da eseguire al montaggio

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

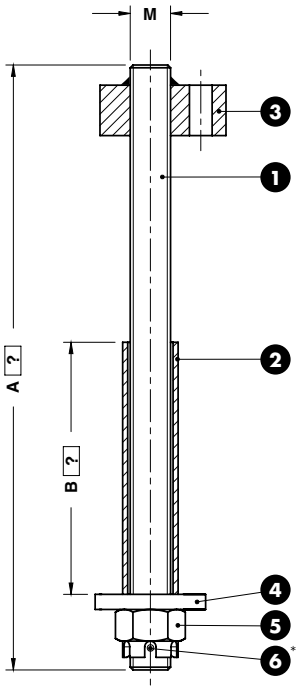


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. **Material:** Thread rod cl 8.8
2. Tube DIN 2391
3. **Material:** St37
4. **Material:** CK45
5. Hexagon castle nut DIN 935
6. Split Pin. DIN EN ISO 1234

10 ...




ORDER EXAMPLE

| JLR CODE | M=M20 | B=160 | A=352 |
|---|---|---|---|
| TDSA14-I | M20 | B160 | A352 |

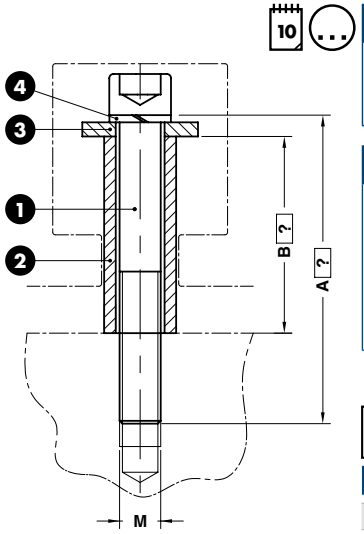
| JLR CODE | M |
|---|---|
| TDSA14-I M16 | M16 |
| TDSA14-I M20 | M20 |

*Drill hole in rod for copper pin at assembly
Bohrung für splint durchzufuhren bei der montage
Foro per coppiglia da eseguire al montaggio

# TDSA14-J

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE






Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. DIN 912
2. Tube DIN 2391
3. **Material:** CK45
4. DIN 912 CL8.8

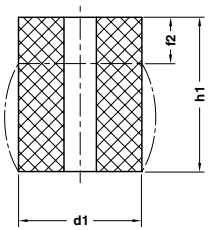
| ORDER EXAMPLE | JLR CODE | M=M12 | B=165 | A=190 |
|---|---|---|---|---|
| | TDSA14-J | M12 | B165 | A190 |

| JLR CODE | M |
|---|---|
| TDSA14-J M10 | M10 |
| TDSA14-J M12 | M12 |
| TDSA14-J M16 | M16 |

# TDSA14-K

## ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO






### Notes

**Material:** Elastomer 90SH

S = max. 30% H

STOCK

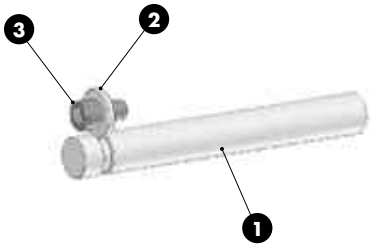
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA14-K 63 40 |

| JLR CODE | d1 | f2 | h1 | JLR CODE | d1 | f2 | h1 | JLR CODE | d1 | f2 | h1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TDSA14-K 40 32 | 40 | 2,5 | 32 | TDSA14-K 50 80 | 50 | 6,4 | 80 | TDSA14-K 80 32 | 80 | 2,5 | 32 |
| TDSA14-K 40 40 | 40 | 3,2 | 40 | TDSA14-K 50 100 | 50 | 8 | 100 | TDSA14-K 80 40 | 80 | 3,2 | 40 |
| TDSA14-K 40 50 | 40 | 4 | 50 | TDSA14-K 63 32 | 63 | 2,5 | 32 | TDSA14-K 80 50 | 80 | 4 | 50 |
| TDSA14-K 40 63 | 40 | 5 | 63 | TDSA14-K 63 40 | 63 | 3,2 | 40 | TDSA14-K 80 63 | 80 | 5 | 63 |
| TDSA14-K 40 80 | 40 | 6,4 | 80 | TDSA14-K 63 50 | 63 | 4 | 50 | TDSA14-K 80 80 | 80 | 6,4 | 80 |
| TDSA14-K 50 32 | 50 | 2,5 | 32 | TDSA14-K 63 63 | 63 | 5 | 63 | TDSA14-K 80 100 | 80 | 8 | 100 |
| TDSA14-K 50 40 | 50 | 3,2 | 40 | TDSA14-K 63 80 | 63 | 6,4 | 80 | TDSA14-K 80 125 | 80 | 10 | 125 |
| TDSA14-K 50 50 | 50 | 4 | 50 | TDSA14-K 63 100 | 63 | 8 | 100 | | | | |
| TDSA14-K 50 63 | 50 | 5 | 63 | TDSA14-K 63 125 | 63 | 10 | 125 | | | | |

# TDSA14-L

OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO




**Notes**

1. **Material:** CK45
2. **Material**: St37
3. DIN 912 M12x20

STOCK ...



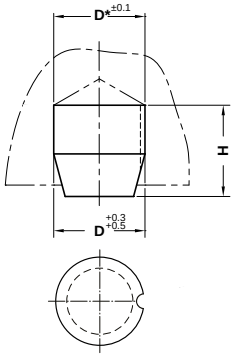
| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA14-L |

| JLR CODE |
|---|
| TDSA14-L |

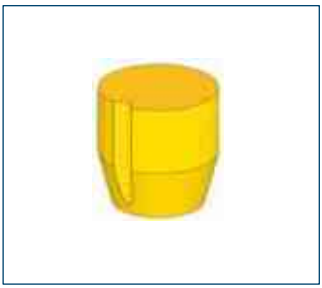
# TDSA14-M

OMCR

## ELASTOMER CAP - ELASTOMERDRUCKSTÜCK - PUNTALINO IN ELASTOMERO




STOCK



**Notes**

**Material:** Elastomer 90SH

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA14-M010 |

| JLR CODE | D | H | F max (N) | JLR CODE | D | H | F max (N) |
|---|---|---|---|---|---|---|---|
| TDSA14-M006 | 6 | 9,5 | 100 | TDSA14-M030 | 30 | 35 | 3000 |
| TDSA14-M010 | 10 | 15,5 | 450 | TDSA14-M032 | 32 | 32 | 12000 |
| TDSA14-M016 | 16 | 25 | 1500 | TDSA14-M039 | 39,5 | 40 | 25000 |
| TDSA14-M024 | 24 | 25 | 3000 | | | | |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

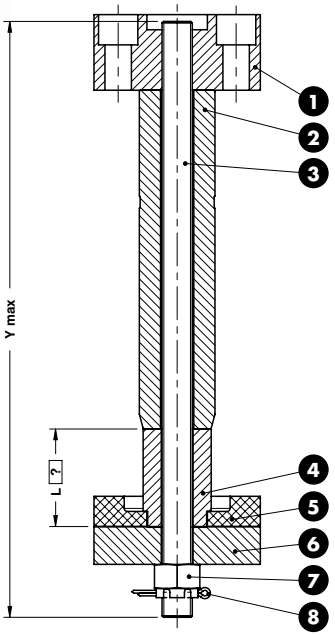


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. TDSA14-NA 50
2. TDSA14-NB 50180/200/224/250/280
3. Retainer bolt DIN 975
4. TDSA14-NC 50
5. TDSA14-ND 50
6. TDSA14-NE 50
7. M20 Hexagon slotted nut DIN 935
8. Split Pin. DIN EN ISO 1234

10 ...




| ORDER EXAMPLE | JLR CODE | L=50 |
|---|---|---|
| | TDSA14-N 50224 | L50 |

| JLR CODE | Y max | Max load (kg) |
|---|---|---|
| TDSA14-N 50180 | 350 | 450 |
| TDSA14-N 50200 | 370 | 450 |
| TDSA14-N 50224 | 394 | 450 |
| TDSA14-N 50250 | 420 | 450 |
| TDSA14-N 50280 | 450 | 450 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

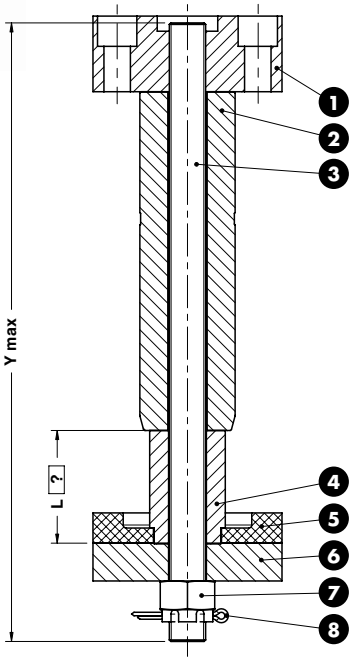


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. TDSA14-NA 63
2. TDSA14-NB 63200/224/250/280
3. Retainer bolt DIN 975
4. TDSA14-NC 63
5. TDSA14-ND 63
6. TDSA14-NE 63
7. M24 Hexagon slotted nut DIN 935
8. Split Pin. DIN EN ISO 1234

10 ...




| ORDER EXAMPLE | JLR CODE | L=70 |
|---|---|---|
| | TDSA14-N 63250 | L70 |

| JLR CODE | Y max | Max load (kg) |
|---|---|---|
| TDSA14-N 63200 | 385 | 750 |
| TDSA14-N 63224 | 409 | 750 |
| TDSA14-N 63250 | 435 | 750 |
| TDSA14-N 63280 | 465 | 750 |

## RETAINER BOLT - ZUGBOLZENSATZ - GRUPPO TIRANTE

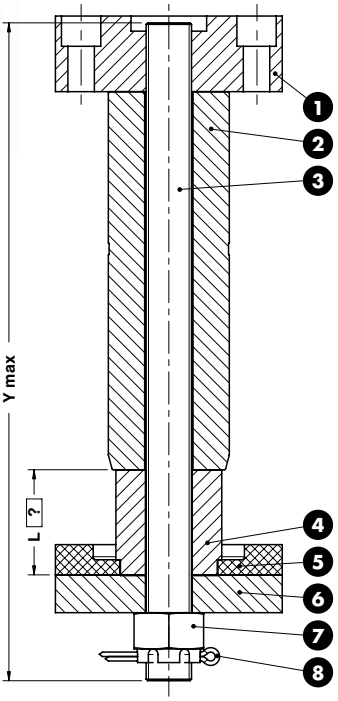


Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

### Notes

1. TDSA14-NA 80
2. TDSA14-NB 80250/280/315/355 400
3. Retainer bolt DIN 975
4. TDSA14-NC 80
5. TDSA14-ND 80
6. TDSA14-NE 80
7. M30 Hexagon slotted nut DIN 935
8. Split Pin. DIN EN ISO 1234

10 ...




| ORDER EXAMPLE | JLR CODE | L=65 |
|---|---|---|
| | TDSA14-N 80315 | L65 |

| JLR CODE | Y max | Max load (kg) |
|---|---|---|
| TDSA14-N 80250 | 435 | 1250 |
| TDSA14-N 80280 | 465 | 1250 |
| TDSA14-N 80315 | 500 | 1250 |
| TDSA14-N 80355 | 540 | 1250 |
| TDSA14-N 80400 | 585 | 1250 |

## LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO




**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

STOCK

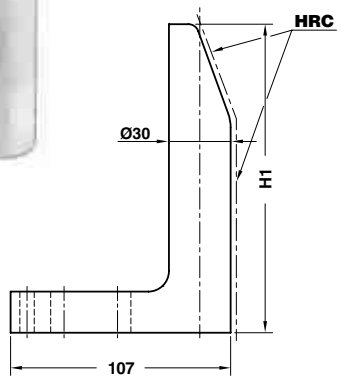
ORDER EXAMPLE

| JLR CODE |
| --- |
| TDSA15-D |

| JLR CODE |
| --- |
| TDSA15-D |

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 56÷60

STOCK

Delivery time
Lieferzeit in Werktagen
Tempi di spedizione

STOCK = ●

10 = ○

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA16-A L185 |

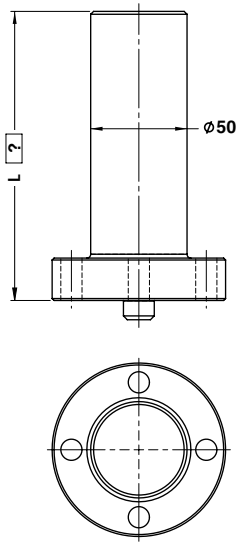
| JLR CODE | L | Delivery Time | JLR CODE | L | Delivery Time | JLR CODE | L | Delivery Time |
|---|---|---|---|---|---|---|---|---|
| TDSA16-A L065 | 65 | ● | TDSA16-A L145 | 145 | ○ | TDSA16-A L225 | 225 | ○ |
| TDSA16-A L070 | 70 | ○ | TDSA16-A L150 | 150 | ● | TDSA16-A L230 | 230 | ○ |
| TDSA16-A L075 | 75 | ○ | TDSA16-A L155 | 155 | ○ | TDSA16-A L235 | 235 | ○ |
| TDSA16-A L080 | 80 | ○ | TDSA16-A L160 | 160 | ○ | TDSA16-A L240 | 240 | ○ |
| TDSA16-A L085 | 85 | ○ | TDSA16-A L165 | 165 | ○ | TDSA16-A L245 | 245 | ○ |
| TDSA16-A L090 | 90 | ● | TDSA16-A L170 | 170 | ○ | TDSA16-A L250 | 250 | ● |
| TDSA16-A L095 | 95 | ○ | TDSA16-A L175 | 175 | ○ | TDSA16-A L260 | 260 | ○ |
| TDSA16-A L100 | 100 | ○ | TDSA16-A L180 | 180 | ● | TDSA16-A L270 | 270 | ○ |
| TDSA16-A L105 | 105 | ○ | TDSA16-A L185 | 185 | ○ | TDSA16-A L280 | 280 | ○ |
| TDSA16-A L110 | 110 | ○ | TDSA16-A L190 | 190 | ○ | TDSA16-A L290 | 290 | ○ |
| TDSA16-A L115 | 115 | ○ | TDSA16-A L195 | 195 | ○ | TDSA16-A L300 | 300 | ● |
| TDSA16-A L120 | 120 | ● | TDSA16-A L200 | 200 | ○ | TDSA16-A L310 | 310 | ○ |
| TDSA16-A L125 | 125 | ○ | TDSA16-A L205 | 205 | ○ | TDSA16-A L320 | 320 | ○ |
| TDSA16-A L130 | 130 | ○ | TDSA16-A L210 | 210 | ○ | TDSA16-A L330 | 330 | ○ |
| TDSA16-A L135 | 135 | ○ | TDSA16-A L215 | 215 | ○ | TDSA16-A L340 | 340 | ○ |
| TDSA16-A L140 | 140 | ○ | TDSA16-A L220 | 220 | ○ | TDSA16-A L350 | 350 | ● |

# TDSA17-A

OMCR

## AIR PIN - DRUCKBOLZEN UNTER - CANDELA






⚠

L ≤ 380 mm

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

10

| ORDER EXAMPLE | JLR CODE | L=200 |
|---|---|---|
| | TDSA17-AA | L200 |

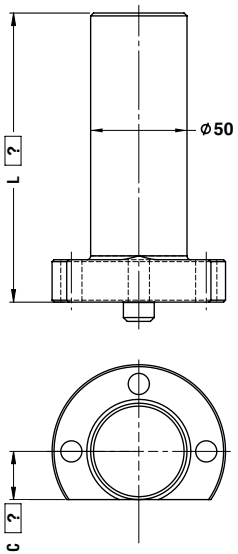
| JLR CODE |
|---|
| TDSA17-AA |

# TDSA17-A

OMCR

## AIR PIN - DRUCKBOLZEN UNTER - CANDELA






⚠

L ≤ 380 mm
C ≥ 25 mm

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

10

| ORDER EXAMPLE | JLR CODE | L=200 | C=23 |
|---|---|---|---|
| | TDSA17-AB | L200 | C23 |

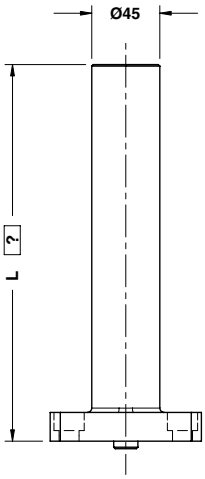
| JLR CODE |
|---|
| TDSA17-AB |

# TDSA17-B

OMCR

## AIR PIN - UNTERLUFTBOLZEN - CANDELA






⚠

L max = 360 mm

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

10

| ORDER EXAMPLE | JLR CODE | L=200 |
|---|---|---|
| | TDSA17-B 45 | L200 |

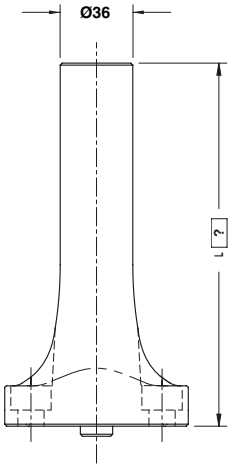
| JLR CODE |
|---|
| TDSA17-B 45 |

# TDSA17-C

OMCR

## AIR PIN - DRUCKBOLZEN - CANDELA






⚠

150 < L ≤ 360 mm, STEP 5 mm

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

10

| ORDER EXAMPLE | JLR CODE | L=200 |
|---|---|---|
| | TDSA17-C | L200 |

| JLR CODE |
|---|
| TDSA17-C |

# TDSA17-G

OMCR

## CLAMP - HALTESTÜCK - STAFFA



| Notes |
| --- |
| **Material:** St37 |

STOCK

| ORDER EXAMPLE | JLR CODE |
| --- | --- |
| | TDSA17-G |

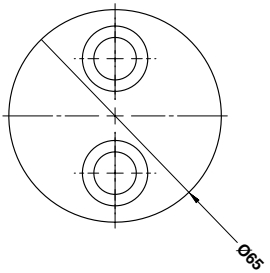
| JLR CODE |
| --- |
| TDSA17-G |

# TDSA17-H

OMCR

## PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE






| Notes |
| --- |
| **Material:** CK45 - **HRC:** 55÷60 |

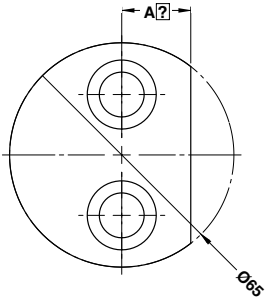
STOCK

| ORDER EXAMPLE | JLR CODE |
| --- | --- |
| | TDSA17-H |

| JLR CODE |
| --- |
| TDSA17-H |

## PRESSURE PLATE - DRUCKPLATTE - PIASTRA DI REAZIONE






| Notes |
|---|
| **Material:** CK45 - **HRC:** 55÷60 |

STOCK

| ORDER EXAMPLE | JLR CODE | A=20 |
|---|---|---|
| | TDSA17-H | A=20 |

| JLR CODE |
|---|
| TDSA17-H |

## TDSA20-B

OMCR

### VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



**Notes**

**Material:** X155CrVMo121
**HRC:** 60÷62

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA20-B |

| JLR CODE |
|---|
| TDSA20-B |

## TDSA20-D

OMCR

### TRADEMARK STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



**Notes**

**Material:** X155CrVMo121
**HRC:** 60÷62

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA20-D J18 |

| JLR CODE |
|---|
| TDSA20-D J18 |

## TDSA20-D

OMCR

### TRADEMARK STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



**Notes**

**Material:** X155CrVMo121
**HRC:** 60÷62

STOCK

| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA20-D LR18 |

| JLR CODE |
|---|
| TDSA20-D LR18 |

# TDSA20-D

OMCR

## TRADEMARK STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



**Notes**

**Material:** X155CrVMo121
**HRC:** 60÷62

STOCK

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA20-D JLR18 |

| JLR CODE |
|---|
| TDSA20-D JLR18 |

# TDSA20-E

OMCR

## STAMP - BUCHSTABENSTEMPEL - PUNZONE DI MARCATURA

STOCK




**Notes**

**Material:** X155CrVMo121
**HRC:** 60÷62

| JLR CODE | LETTER |
|---|---|
| TDSA20-E A | A |
| TDSA20-E B | B |
| TDSA20-E C | C |
| TDSA20-E D | D |
| TDSA20-E L | L |
| TDSA20-E R | R |

ORDER EXAMPLE

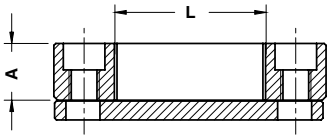
| JLR CODE |
|---|
| TDSA20-E D |

# TDSA20-G

OMCR

## RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




STOCK ...

**Notes**

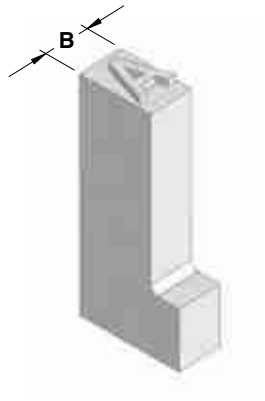
1. TDSA20G-A10/A40
2. TDSA20G-B10/B40

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA20G-20 |

| JLR CODE | L1 |
|---|---|
| TDSA20G-10 | 10 |
| TDSA20G-20 | 20 |
| TDSA20G-40 | 40 |

## STAMPS - BUCHSTABENSTEMPEL - PUNZONE MARCHIO




**Notes**

**Material:** X155CrVMo121 - **HRC:** 60÷62

STOCK



| ORDER EXAMPLE | JLR CODE |
|---|---|
| | TDSA20H - N |

| JLR CODE | B | Stamp |
|---|---|---|
| TDSA20H - 0 | 2,5 | 0 |
| TDSA20H - 1 | 2,5 | 1 |
| TDSA20H - 2 | 2,5 | 2 |
| TDSA20H - 3 | 2,5 | 3 |
| TDSA20H - 4 | 2,5 | 4 |
| TDSA20H - 5 | 2,5 | 5 |
| TDSA20H - 6 | 2,5 | 6 |
| TDSA20H - 7 | 2,5 | 7 |
| TDSA20H - 8 | 2,5 | 8 |
| TDSA20H - 9 | 2,5 | 9 |
| TDSA20H - A | 3 | A |
| TDSA20H - B | 3 | B |
| TDSA20H - C | 3 | C |
| TDSA20H - D | 3 | D |

| JLR CODE | B | Stamp |
|---|---|---|
| TDSA20H - E | 3 | E |
| TDSA20H - F | 2,5 | F |
| TDSA20H - G | 3 | G |
| TDSA20H - H | 3 | H |
| TDSA20H - I | 2,5 | I |
| TDSA20H - J | 2,5 | J |
| TDSA20H - K | 3 | K |
| TDSA20H - L | 2,5 | L |
| TDSA20H - M | 3,5 | M |
| TDSA20H - N | 3 | N |
| TDSA20H - P | 3 | P |
| TDSA20H - Q | 3 | Q |
| TDSA20H - R | 3 | R |
| TDSA20H - S | 3 | S |

| JLR CODE | B | Stamp |
|---|---|---|
| TDSA20H - T | 2,5 | T |
| TDSA20H - U | 3 | U |
| TDSA20H - V | 2,5 | V |
| TDSA20H - W | 3,5 | W |
| TDSA20H - X | 2,5 | X |
| TDSA20H - Y | 2,5 | Y |
| TDSA20H - Z | 2,5 | Z |
| TDSA20H - SP05 | 0,5 | FILLER |
| TDSA20H - SP10 | 1 | FILLER |
| TDSA20H - SP15 | 1,5 | FILLER |
| TDSA20H - SP20 | 2 | FILLER |
| TDSA20H - SP25 | 2,5 | FILLER |
| TDSA20H - SP60 | 6 | FILLER |
| TDSA20H - - | 2,5 | - |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

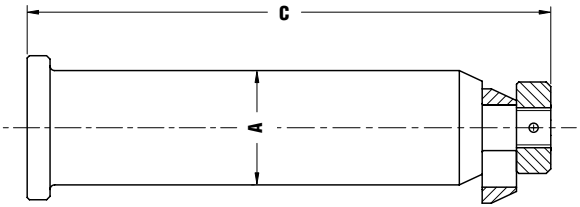
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

### Notes

**Material:** 42CrMo4 + QT

CE STOCK




ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA21-A63 |

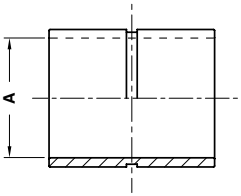
| JLR CODE | Max load (kg) | Max die weight (kg) | A | C |
|---|---|---|---|---|
| TDSA21-A35 | 1500 | 3000 | 35 | 165 |
| TDSA21-A50 | 5500 | 10050 | 50 | 230 |
| TDSA21-A63 | 23000 | 45500 | 63 | 320 |
| TDSA21-A80 | 30000 | 60000 | 80 | 370 |

# TDSA21-B

OMCR

## BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO






**Notes**

**Material:** St34-2

STOCK

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA21-B63 |

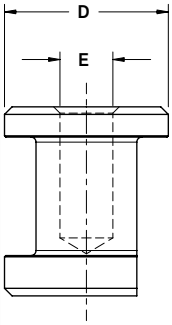
| JLR CODE | A |
|---|---|
| TDSA21-B50 | 52 |
| TDSA21-B63 | 65 |
| TDSA21-B80 | 82 |

# TDSA21-D

OMCR

## THREADED STEEL INSERT - GEWINDEEINSATZ FÜR GUSS - INSERTO FILETTATO PER FUSIONE






**Notes**

**Material:** 42CrMo4 + QT

STOCK

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA21-D30 |

| JLR CODE | Max load 1 point (kg) | Max load 2÷4 point (kg) | D | E |
|---|---|---|---|---|
| TDSA21-D20 | 2100 | 4200 | 65 | M20x2.5 |
| TDSA21-D24 | 3000 | 6000 | 65 | M24x3.0 |
| TDSA21-D30 | 5000 | 10000 | 85 | M30x3.5 |
| TDSA21-D36 | 6500 | 13000 | 107 | M36x4.0 |

# TDSA30-C

OMCR

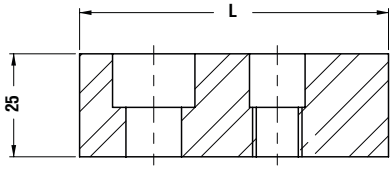
## STANDARD KEY - PASSFEDER - CHIAVETTA



**Notes**

**Material:** CK45

STOCK




ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA30-C150 |

| JLR CODE | L |
|---|---|
| TDSA30-C75 | 75 |
| TDSA30-C100 | 100 |
| TDSA30-C150 | 150 |

# TDSA35-A

OMCR

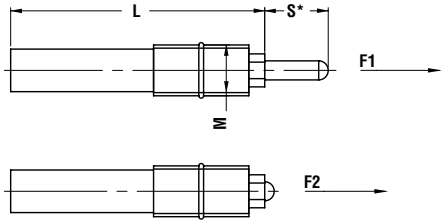
## SPRING PLUNGER - FEDERNE DRUCKSTÜCKE - ESPULSORE A MOLLA



**Notes**

**Material:** Steel

STOCK




* Stroke
Hub
Corsa

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSA35-A36 |

| JLR CODE | M | L | S | F1 (N) | F2 (N) |
|---|---|---|---|---|---|
| TDSA35-A21 | M16x2 | 80 | 20 | 6.9 | 34,5 |
| TDSA35-A22 | M16x2 | 120 | 30 | 18 | 40 |
| TDSA35-A23 | M16x2 | 150 | 40 | 13,2 | 37,2 |
| TDSA35-A24 | M16x2 | 150 | 50 | 13,2 | 43,2 |
| TDSA35-A25 | M16x2 | 150 | 60 | 13,2 | 49,2 |
| TDSA35-A26 | M16x2 | 200 | 70 | 9,68 | 40,5 |
| TDSA35-A27 | M16x2 | 200 | 80 | 9,68 | 44,8 |

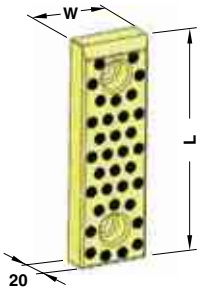
| JLR CODE | M | L | S | F1 (N) | F2 (N) |
|---|---|---|---|---|---|
| TDSA35-A31 | M16x2 | 80 | 20 | 34,5 | 172,5 |
| TDSA35-A32 | M16x2 | 150 | 30 | 56,1 | 132,6 |
| TDSA35-A33 | M16x2 | 150 | 40 | 56,1 | 158,1 |
| TDSA35-A34 | M16x2 | 200 | 50 | 19,3 | 99,9 |
| TDSA35-A35 | M16x2 | 200 | 60 | 19,3 | 116,1 |
| TDSA35-A36 | M16x2 | 200 | 70 | 19,3 | 132,1 |
| TDSA35-A37 | M16x2 | 200 | 80 | 25 | 100,1 |

## WEAR PLATE VDI 3357 - GLEITPLATTE VDI 3357 - PIASTRA GUIDA VDI 3357

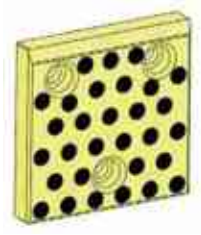
**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




FORM A



FORM B



FORM D



FORM C

Standard JLR

ORDER EXAMPLE

| JLR CODE |
|---|
| TDSB13-C B 125 160 |

| JLR CODE | W | L | FORM |
|---|---|---|---|
| TDSB13-C B 050 080 | 50 | 80 | A |
| TDSB13-C B 050 100 | 50 | 100 | A |
| TDSB13-C B 050 125 | 50 | 125 | A |
| TDSB13-C B 050 160 | 50 | 160 | A |
| TDSB13-C B 050 200 | 50 | 200 | A |
| TDSB13-C B 050 250 | 50 | 250 | D |
| TDSB13-C B 080 050 | 80 | 50 | C |
| TDSB13-C B 080 080 | 80 | 80 | A |
| TDSB13-C B 080 100 | 80 | 100 | A |
| TDSB13-C B 080 125 | 80 | 125 | A |
| TDSB13-C B 080 160 | 80 | 160 | A |
| TDSB13-C B 080 200 | 80 | 200 | A |
| TDSB13-C B 080 250 | 80 | 250 | D |
| TDSB13-C B 100 050 | 100 | 50 | C |
| TDSB13-C B 100 080 | 100 | 80 | C |
| TDSB13-C B 100 100 | 100 | 100 | A |
| TDSB13-C B 100 125 | 100 | 125 | A |

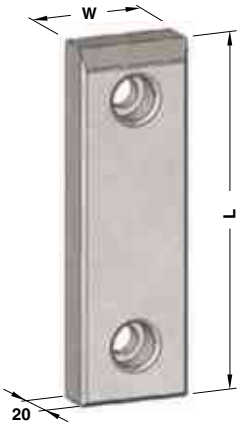
| JLR CODE | W | L | FORM |
|---|---|---|---|
| TDSB13-C B 100 160 | 100 | 160 | A |
| TDSB13-C B 100 200 | 100 | 200 | A |
| TDSB13-C B 100 250 | 100 | 250 | D |
| TDSB13-C B 125 050 | 125 | 50 | C |
| TDSB13-C B 125 080 | 125 | 80 | C |
| TDSB13-C B 125 100 | 125 | 100 | B |
| TDSB13-C B 125 125 | 125 | 125 | B |
| TDSB13-C B 125 160 | 125 | 160 | B |
| TDSB13-C B 125 200 | 125 | 200 | B |
| TDSB13-C B 125 250 | 125 | 250 | D |
| TDSB13-C B 160 050 | 160 | 50 | C |
| TDSB13-C B 160 080 | 160 | 80 | C |
| TDSB13-C B 160 100 | 160 | 100 | B |
| TDSB13-C B 160 125 | 160 | 125 | B |
| TDSB13-C B 160 160 | 160 | 160 | B |
| TDSB13-C B 160 200 | 160 | 200 | B |
| TDSB13-C B 160 250 | 160 | 250 | D |

## WEAR PLATE VDI 3357 - GLEITPLATTE VDI 3357 - PIASTRA GUIDA VDI 3357

**Notes**

**Material:** Syntered metal

STOCK




FORM A



FORM B



FORM C

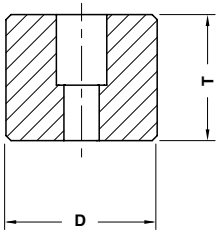
ORDER EXAMPLE

| JLR CODE |
|---|
| TDSB13-C S 160 080 |

| JLR CODE | W | L | FORM | JLR CODE | W | L | FORM |
|---|---|---|---|---|---|---|---|
| TDSB13-C S 050 080 | 50 | 80 | A | TDSB13-C S 100 160 | 100 | 160 | A |
| TDSB13-C S 050 100 | 50 | 100 | A | TDSB13-C S 100 200 | 100 | 200 | A |
| TDSB13-C S 050 125 | 50 | 125 | A | TDSB13-C S 125 050 | 125 | 50 | C |
| TDSB13-C S 050 160 | 50 | 160 | A | TDSB13-C S 125 080 | 125 | 80 | C |
| TDSB13-C S 050 200 | 50 | 200 | A | TDSB13-C S 125 100 | 125 | 100 | B |
| TDSB13-C S 080 050 | 80 | 50 | C | TDSB13-C S 125 125 | 125 | 125 | B |
| TDSB13-C S 080 080 | 80 | 80 | A | TDSB13-C S 125 160 | 125 | 160 | B |
| TDSB13-C S 080 100 | 80 | 100 | A | TDSB13-C S 125 200 | 125 | 200 | B |
| TDSB13-C S 080 125 | 80 | 125 | A | TDSB13-C S 160 050 | 160 | 50 | C |
| TDSB13-C S 080 160 | 80 | 160 | A | TDSB13-C S 160 080 | 160 | 80 | C |
| TDSB13-C S 080 200 | 80 | 200 | A | TDSB13-C S 160 100 | 160 | 100 | B |
| TDSB13-C S 100 050 | 100 | 50 | C | TDSB13-C S 160 125 | 160 | 125 | B |
| TDSB13-C S 100 080 | 100 | 80 | C | TDSB13-C S 160 160 | 160 | 160 | B |
| TDSB13-C S 100 100 | 100 | 100 | A | TDSB13-C S 160 200 | 160 | 200 | B |
| TDSB13-C S 100 125 | 100 | 125 | A | | | | |

## STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE






**Notes**

**Material:** CK45

10



ORDER EXAMPLE

| JLR CODE |
|---|
| TDSB13-E 60 30 |

| JLR CODE | D | T | JLR CODE | D | T |
|---|---|---|---|---|---|
| TDSB13-E 40 20 | 40 | 20 | TDSB13-E 65 30 | 65 | 30 |
| TDSB13-E 40 30 | 40 | 30 | TDSB13-E 65 40 | 65 | 40 |
| TDSB13-E 50 20 | 50 | 20 | TDSB13-E 65 50 | 65 | 50 |
| TDSB13-E 50 30 | 50 | 30 | TDSB13-E 70 20 | 70 | 20 |
| TDSB13-E 50 40 | 50 | 40 | TDSB13-E 70 30 | 70 | 30 |
| TDSB13-E 50 50 | 50 | 50 | TDSB13-E 70 40 | 70 | 40 |
| TDSB13-E 60 20 | 60 | 20 | TDSB13-E 70 50 | 70 | 50 |
| TDSB13-E 60 30 | 60 | 30 | TDSB13-E 90 30 | 90 | 30 |
| TDSB13-E 60 40 | 60 | 40 | TDSB13-E 90 50 | 90 | 50 |
| TDSB13-E 60 50 | 60 | 50 | | | |





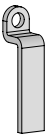
# Die Components
# Normalien
# Componenti

**Mercedes-Benz**

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

**APPROVED BY MERCEDES-BENZ - FREIGEGEBEN VON MERCEDES-BENZ - APPROVATO DA MERCEDES-BENZ**

| B8 0110 100 008 805 | B8 0162 410 008 801 | B8 0301 231 108 801 | B8 0460 231 009 003 | B8 0460 850 000 101 |
|---|---|---|---|---|
|  |  |  |  |  |
| Washer<br>Scheibe<br>Rondella | Bracket for lifting pin<br>Bügel für Tragbolzen<br>Staffa per perno di sollevamento | Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di sollevamento | Wear plate<br>Gleitplatte<br>Piastra guida | Locating block<br>Fangbacke<br>Tassello di centraggio |
| 405 | 405 | 406 | 407 | 408 |

| B8 0541 000 009 001 | B8 0541 000 009 005 | B8 0602 321 008 801 | B8 1013 110 008 802 | B8 1240 300 009 001 |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage<br>Einweiser<br>Riferimento | Gage<br>Einweiser<br>Riferimento | Locating pin<br>Zentrierbolzen<br>Perno di centraggio | Collar Screw<br>Schulter Passchraube<br>Vite con colletto | Lifting bracket VDI 3366<br>Tragzapfen VDI 3366<br>Staffa di sollevamento VDI 3366 |
| 408 | 409 | 409 | 410 | 411 |

| B8 2002 231 009 001 | B8 2002 621 008 802 | B8 7007 000 008 808 | B8 7007 000 008 809 | B8 7007 000 008 810 |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting Pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Coil guide roller<br>Führungsrolle<br>Guida nastro | Coil guide roller<br>Führungsrolle<br>Guida nastro | Coil guide roller<br>Führungsrolle<br>Guida nastro |
| 412 | 413 | 413 | 414 | 414 |

**SIMILAR TO MERCEDES-BENZ - ÄHNLICH MERCEDES-BENZ - SIMILE A MERCEDES-BENZ**



| A30 | A31 | A32 | A33 | A34 |
|---|---|---|---|---|
|  |  |  |  |  |
| Elastomer Washer<br>Daempfungsscheibe<br>Rondella in elastomero | Washer<br>Scheibe<br>Rondella | Key<br>Passfeder<br>Chiavetta | Guide post<br>Führungssäule<br>Colonna guida | Guide Post<br>Führungssäule<br>Colonna Guida |
| 415 | 415 | 416 | 417 | 418 |

| A35 | A36 | A37 | A38 | A39 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide Post<br>Führungssäule<br>Colonna Guida | Guide Post<br>Führungssäule<br>Colonna Guida | Wear plate<br>Gleitplatte<br>Piastra guida | Wear plate<br>Gleitplatte<br>Piastra guida | Wear plate<br>Gleitplatte<br>Piastra guida |
| 419 | 420 | 421 | 422 | 423 |

| A40 | A41 | A42 | A43 | A44 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver<br>Prismenführung<br>Guida a "V" | "V" driver<br>Prismenführung<br>Guida a "V" | Cam dwell<br>Uberlaufkeile<br>Cuneo | Cam dwell<br>Uberlaufkeile<br>Cuneo | Locating block<br>Fangbacke<br>Tassello di centraggio |
| 424 | 424 | 425 | 426 | 427 |

| A45 | A46 | A47 | A48 | A49 |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage for sensor<br>Einweiser für<br>Teillagekontrolle<br>Riferimento per sensore | Gage<br>Einweiser<br>Riferimento | Spacer<br>Distanzscheibe<br>Distanziale | Backing plate<br>Distanzkappe<br>Reazione per cilindro | Stop Block<br>Abstandsblock<br>Distanziale |
| 427 | 428 | 428 | 429 | 429 |

**SIMILAR TO MERCEDES-BENZ - ÄHNLICH MERCEDES-BENZ - SIMILE A MERCEDES-BENZ**

| A50 | A51 | A52 | A53 | A54 |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating pin<br>Zentrierbolzen<br>Centraggio | Spring pin<br>Aufnahmebolzen<br>Perno per molla | Locating cone<br>Zentrierzapfen<br>Cono di centraggio | Locating Cone<br>Kegelaufsatz<br>Cono Di Centraggio | Spacer<br>Abstimmschraube<br>Distanziale |
| 430 | 430 | 431 | 431 | 432 |

| A55 | A56 | A57 | A58 | A59 |
|---|---|---|---|---|
|  |  |  |  |  |
| Post ring<br>Sprengring<br>Anello per colonna | Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Retainer bolt<br>Haltebolzen<br>Tirante | Air pin<br>Druckbolzen<br>Candela | Cam roller<br>Rollenbock<br>Supporto con rullo |
| 432 | 433 | 433 | 434 | 434 |

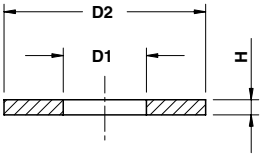
| E46.10 | E47.10 |
|---|---|
|  |  |
| Bush self-lubricating<br>DIN 9834<br>Führungsbuchse DIN 9834<br>Boccola autolubrificante<br>DIN 9834 | Toe clamp<br>Haltestück<br>Ritegno |
| 435 | 435 |

# B8 0110 100 008 805

OMCR

## WASHER - SCHEIBE - RONDELLA






**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 0110 0332957 |

| MERCEDES-BENZ CODE | D1 | D2 | H |
|---|---|---|---|
| B8 0110 0332956 | 14 | 40 | 6 |
| B8 0110 0332957 | 14 | 50 | 6 |
| B8 0110 0332958 | 14 | 50 | 8 |
| B8 0110 0332959 | 17 | 36 | 4 |
| B8 0110 0332960 | 17 | 60 | 6 |
| B8 0110 0332961 | 17 | 60 | 10 |

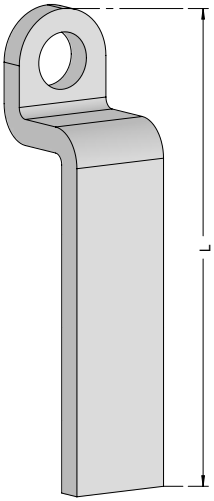
| MERCEDES-BENZ CODE | D1 | D2 | H |
|---|---|---|---|
| B8 0110 0332962 | 17 | 80 | 6 |
| B8 0110 0332963 | 17 | 80 | 12 |
| B8 0110 0332964 | 21 | 50 | 6 |
| B8 0110 0332965 | 21 | 100 | 8 |
| B8 0110 0332966 | 21 | 100 | 14 |
| B8 0110 0332967 | 21 | 120 | 10 |

| MERCEDES-BENZ CODE | D1 | D2 | H |
|---|---|---|---|
| B8 0110 0587878 | 33 | 60 | 6 |
| B8 0110 0332945 | 33 | 80 | 6 |
| B8 0110 0332946 | 33 | 100 | 8 |
| B8 0110 0377008 | 39 | 100 | 8 |
| B8 0110 0377011 | 39 | 110 | 8 |

# B8 0162 410 008 801

OMCR

## BRACKET FOR LIFTING PIN - BÜGEL FÜR TRAGBOLZEN - STAFFA PER PERNO DI SOLLEVAMENTO



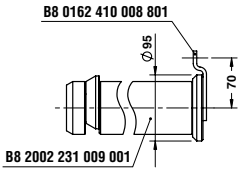

STOCK

**Notes**

**Material:** St37

Only for replacement
Nur für Reparatur
Solo per riparazione

**Application example**



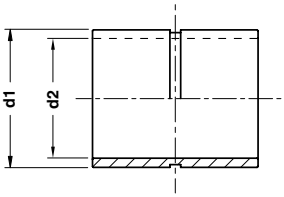

ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 0162 0530492 |

| MERCEDES-BENZ CODE | L |
|---|---|
| B8 0162 0530492 | 100 |
| B8 0162 1045384 | 82 |
| B8 0162 1104475 | 90 |

# BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO






**FORM A**



**FORM B**

**Notes**

**Material:** St35

STOCK

ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 0301 0274833 |

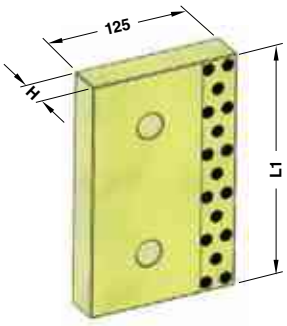
| MERCEDES-BENZ CODE | d1 | d2 | FORM |
|---|---|---|---|
| B8 0301 0274828 | 44 | 34 | A |
| B8 0301 0274833 | 52 | 42 | A |
| B8 0301 0274835 | 62 | 52 | A |
| B8 0301 0274836 | 75 | 65 | A |
| B8 0301 0274838 | 100 | 78 | B |
| B8 0301 0274842 | 105 | 78 | B |

# WEAR PLATE SELF-LUBRICATING
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA AUTOLUBRIFICANTE

**Notes**

**Material:** Bronze + Graphite
**HB** > 190






FORM A



FORM B



FORM C

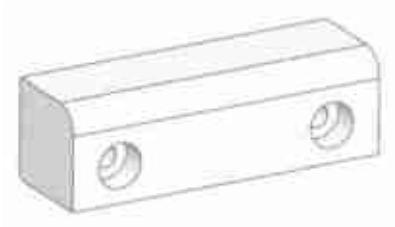
ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 0460 0528244 |

| MERCEDES-BENZ CODE | H | L1 | FORM | MERCEDES-BENZ CODE | H | L1 | FORM | MERCEDES-BENZ CODE | H | L1 | FORM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B8 0460 0528243 | 25 | 160 | A | B8 0460 0528246 | 25 | 400 | C | B8 0460 0528249 | 30 | 250 | B |
| B8 0460 0528244 | 25 | 200 | A | B8 0460 0528247 | 30 | 160 | A | B8 0460 0528250 | 30 | 400 | C |
| B8 0460 0528245 | 25 | 250 | B | B8 0460 0528248 | 30 | 200 | B | | | | |

## B8 0460 850 000 101

### LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO



| Notes |
|---|
| **Material:** Polyamide PA6 |

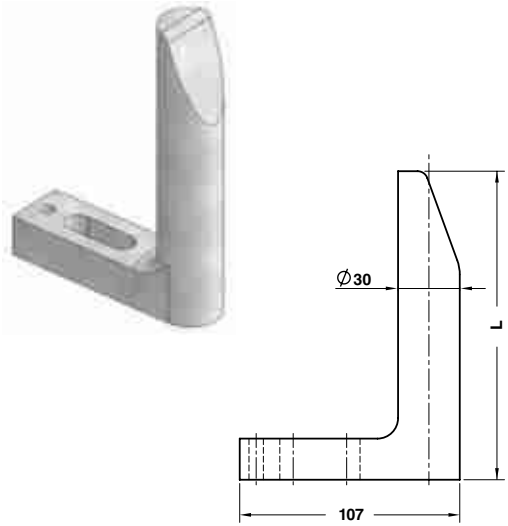
STOCK

| ORDER EXAMPLE | MERCEDES-BENZ CODE |
|---|---|
| | B8 0460 0331968 |

| MERCEDES-BENZ CODE |
|---|
| B8 0460 0331968 |

## B8 0541 000 009 001

### GAGE - EINWEISER - RIFERIMENTO




| Notes |
|---|
| **Material:** CK60 |

STOCK

| ORDER EXAMPLE | MERCEDES-BENZ CODE |
|---|---|
| | B8 0541 0332635 |

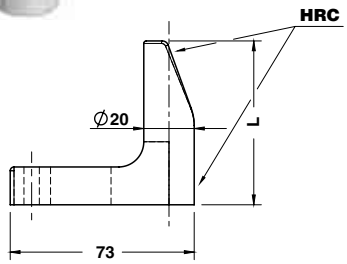
| MERCEDES-BENZ CODE | L |
|---|---|
| B8 0541 0332634 | 65 |
| B8 0541 0332635 | 90 |
| B8 0541 0332636 | 120 |
| B8 0541 0332637 | 150 |
| B8 0541 0332638 | 180 |
| B8 0541 0332641 | 250 |

## B8 0541 000 009 005

OMCR

### GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 0541 0093840 |

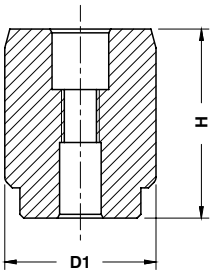
| MERCEDES-BENZ CODE | L |
|---|---|
| B8 0541 0093839 | 65 |
| B8 0541 0093840 | 90 |

## B8 0602 321 008 801

OMCR

### LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO






**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

STOCK

ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 0602 0333315 |

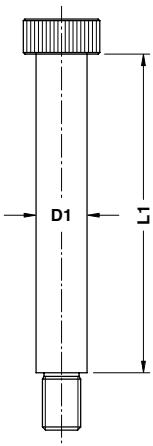
| MERCEDES-BENZ CODE | D1 | H |
|---|---|---|
| B8 0602 1061335 | 11 | 70 |
| B8 0602 0333314 | 22 | 50 |
| B8 0602 0333315 | 25 | 50 |
| B8 0602 0333316 | 32 | 50 |
| B8 0602 1061342 | 15 | 70 |
| B8 0602 0333317 | 40 | 50 |
| B8 0602 0333318 | 50 | 50 |

## COLLAR SCREW - SCHULTER PASSCHRAUBE - VITE CON COLLETTO

| Notes |
| --- |
| DIN 898 cl. 12.9 |

STOCK






| ORDER EXAMPLE | MERCEDES-BENZ CODE |
| --- | --- |
| | B8 1013 0789539 |

| MERCEDES-BENZ CODE | D1 | L1 |
| --- | --- | --- |
| B8 1013 0528837 | 16 | 70 |
| B8 1013 0528838 | 16 | 80 |
| B8 1013 0528839 | 16 | 90 |
| B8 1013 0528840 | 16 | 100 |
| B8 1013 0528841 | 16 | 120 |
| B8 1013 0528842 | 16 | 60 |
| B8 1013 0528843 | 16 | 50 |
| B8 1013 0528844 | 20 | 50 |

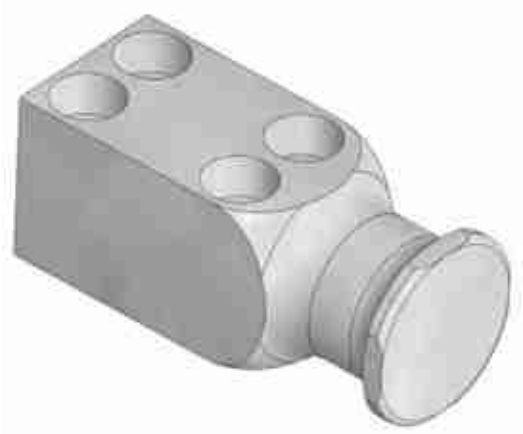
| MERCEDES-BENZ CODE | D1 | L1 |
| --- | --- | --- |
| B8 1013 0528845 | 20 | 60 |
| B8 1013 0528846 | 20 | 70 |
| B8 1013 0528847 | 20 | 80 |
| B8 1013 0528848 | 20 | 90 |
| B8 1013 0528849 | 20 | 100 |
| B8 1013 0528850 | 20 | 120 |
| B8 1013 0571679 | 16 | 30 |
| B8 1013 0789539 | 16 | 25 |

| MERCEDES-BENZ CODE | D1 | L1 |
| --- | --- | --- |
| B8 1013 0789540 | 16 | 35 |
| B8 1013 0789542 | 16 | 40 |
| B8 1013 0789543 | 16 | 45 |
| B8 1013 1018326 | 8 | 16 |
| B8 1013 1043713 | 8 | 50 |
| B8 1013 1060773 | 12 | 30 |
| | | |
| | | |

## LIFTING BRACKET VDI 3366 - TRAGZAPFEN VDI 3366 - STAFFA DI SOLLEVAMENTO VDI 3366



**FORM A**



**FORM B**

**Notes**

**Material:** CK45 - 700÷800 N/mm²

Screws not included

CE STOCK

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.



ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 1240 0333079 |

| MERCEDES-BENZ CODE | Max load (kg) | Max die weight (kg) | FORM | MERCEDES-BENZ CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|---|---|---|---|
| B8 1240 0333078 | 320 | 640 | A | B8 1240 0333083 | 5000 | 10000 | A |
| B8 1240 0333079 | 630 | 1260 | A | B8 1240 0333084 | 8000 | 16000 | B |
| B8 1240 0333080 | 1250 | 2500 | A | B8 1240 0333085 | 12500 | 25000 | B |
| B8 1240 0333081 | 2000 | 4000 | A | B8 1240 0333086 | 20000 | 40000 | B |
| B8 1240 0333082 | 3200 | 6400 | A | | | | |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO

**Notes**

**Material:** 42CrMo4 + QT

CE STOCK

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

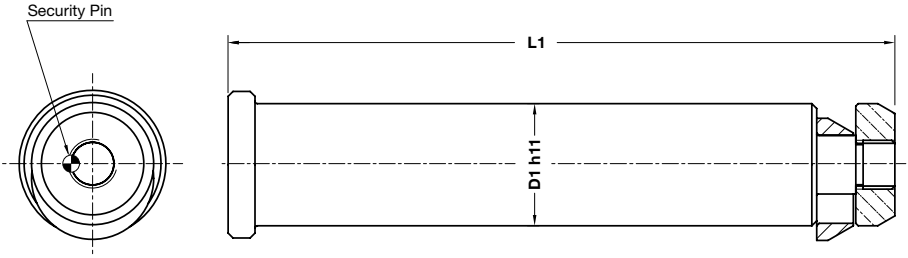
**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.






ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 2002 0370694 |

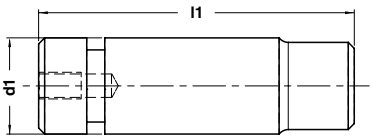
| MERCEDES-BENZ CODE | Max load (kg) | Max die weight (kg) | L1 | D1 |
|---|---|---|---|---|
| B8 2002 0370693 | 3200 | 6400 | 175 | 32 |
| B8 2002 0370694 | 5000 | 10000 | 225 | 40 |
| B8 2002 0537341 | 8000 | 16000 | 273 | 50 |
| B8 2002 0537342 | 12500 | 25000 | 347 | 63 |
| B8 2002 0537343 | 31500 | 63000 | 422 | 76 |

## B8 2002 621 008 802

OMCR

### PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

**Material:** CK45 - 800÷1000 N/mm²

STOCK

ORDER EXAMPLE — MERCEDES-BENZ CODE: B8 2002 0333932

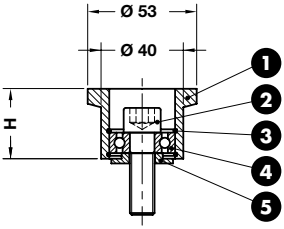
| MERCEDES-BENZ CODE | d1 | l1 |
|---|---|---|
| B8 2002 0333400 | 32 | 122 |
| B8 2002 0332932 | 40 | 139 |
| B8 2002 0332933 | 50 | 167 |

## B8 7007 000 008 808

OMCR

### COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO






**Notes**

1. **Material:** 16MnCr5 - **HRC:** 55÷58
2. M12x40 DIN 472
3. I32 DIN 472
4. 6201 2Z VA DIN 625
5. **Material:** CK45

STOCK ...

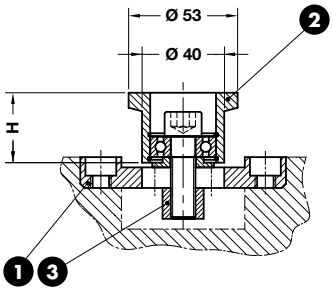
ORDER EXAMPLE — MERCEDES-BENZ CODE: B8 7007 0332935

| MERCEDES-BENZ CODE | H |
|---|---|
| B8 7007 0332934 | 17 |
| B8 7007 0332935 | 34 |
| B8 7007 0530090 | 80 |

# B8 7007 000 008 809

## COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO






**Notes**

1. **Material:** St37
2. B8 7007 0332934
   B8 7007 0332935
   B8 7007 0530090
3. **Material:** CK45

STOCK ...

ORDER EXAMPLE

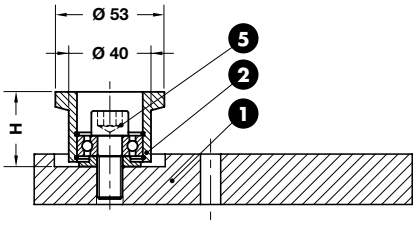
| MERCEDES-BENZ CODE |
|---|
| B8 7007 0332632 |

| MERCEDES-BENZ CODE | H |
|---|---|
| B8 7007 0332631 | 17 |
| B8 7007 0332632 | 34 |
| B8 7007 0557701 | 80 |

# B8 7007 000 008 810

## COIL GUIDE ROLLER - FÜHRUNGSROLLE - GUIDA NASTRO






**Notes**

1. **Material:** St37
2. B8 7007 0332935
   B8 7007 0530090
5. M12x25 DIN 472

STOCK ...

ORDER EXAMPLE

| MERCEDES-BENZ CODE |
|---|
| B8 7007 0530089 |

| MERCEDES-BENZ CODE | H |
|---|---|
| B8 7007 0530088 | 34 |
| B8 7007 0530089 | 80 |

## A30

NOT HOMOLOGATED IN MERCEDES-BENZ

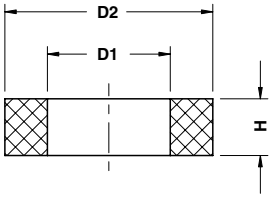
### ELASTOMER WASHER - DAEMPFUNGSSCHEIBE - RONDELLA IN ELASTOMERO



**Notes**

**Material:** Elastomer 92 SH
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK




| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A30.021.047 |

| OMCR CODE | SIMILAR TO | D1 | D2 | H |
|---|---|---|---|---|
| A30.017.034 | B8 0110 0332827 | 17 | 34 | 8 |
| A30.021.047 | B8 0110 0332828 | 21 | 47 | 8 |
| A30.032.055 | B8 0110 0332829 | 32,5 | 55 | 15 |
| A30.038.063 | B8 0110 0373385 | 38,5 | 63 | 15 |

## A31

NOT HOMOLOGATED IN MERCEDES-BENZ

### WASHER - SCHEIBE - RONDELLA

**Notes**

**Material:** CK45

STOCK



| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A31.039.068 |

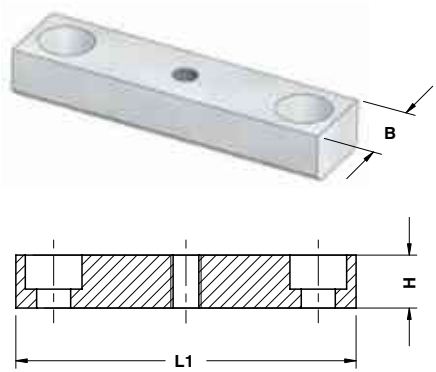
| OMCR CODE | SIMILAR TO |
|---|---|
| A31.039.068 | B8 0110 0373388 |

## KEY - PASSFEDER - CHIAVETTA

**Notes**

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK




| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A32.022.050.A |

| OMCR CODE | SIMILAR TO | B | H | L1 | Material |
|---|---|---|---|---|---|
| A32.022.050.A | B8 0111 0455258 | 22 0/+0,01 | 14 | 50 | CK45 |
| A32.022.090.A | B8 0111 0455442 | 22 0/+0,01 | 14 | 90 | CK45 |
| A32.022.150.A | B8 0111 0455443 | 22 0/+0,01 | 14 | 150 | CK45 |
| A32.022.240.A | B8 0111 0455444 | 22 0/+0,01 | 14 | 240 | CK45 |
| A32.022.050.B | B8 0111 1269321 | 22 +0,3/+0,4 | 14 | 50 | CK45 |
| A32.022.090.B | B8 0111 1269322 | 22 +0,3/+0,4 | 14 | 90 | CK45 |
| A32.022.150.B | B8 0111 1269323 | 22 +0,3/+0,4 | 14 | 150 | CK45 |
| A32.022.240.B | B8 0111 1269325 | 22 +0,3/+0,4 | 14 | 240 | CK45 |
| A32.030.150 | B8 0111 1197100 | 30 h11 | 30 | 150 | St37 |
| A32.030.175 | B8 0111 0370158 | 30 h11 | 30 | 175 | St37 |
| A32.030.240 | B8 0111 1195191 | 30 h11 | 30 | 240 | St37 |
| A32.030.250 | B8 0111 0333602 | 30 h11 | 30 | 250 | St37 |
| A32.022.150.C | B8 0111 0332735 | 22 h9 | 14 | 150 | CK45 |
| A32.022.240.C | B8 0111 0534548 | 22 h9 | 14 | 240 | CK45 |

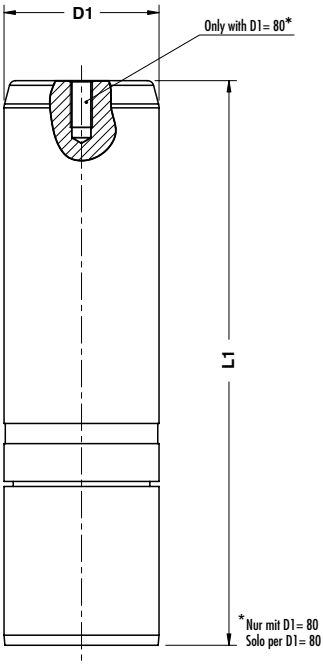
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

10








ORDER EXAMPLE

| OMCR CODE |
|---|
| A33.040.160 |

| OMCR CODE | SIMILAR TO | D1 | L1 | OMCR CODE | SIMILAR TO | D1 | L1 |
|---|---|---|---|---|---|---|---|
| A33.040.160 | B8 0450 0333405 | 40 | 160 | A33.063.180 | B8 0450 0333419 | 63 | 180 |
| A33.040.180 | B8 0450 0333406 | 40 | 180 | A33.063.200 | B8 0450 0333420 | 63 | 200 |
| A33.040.200 | B8 0450 0333407 | 40 | 200 | A33.063.224 | B8 0450 0333421 | 63 | 224 |
| A33.040.224 | B8 0450 0333408 | 40 | 224 | A33.063.250 | B8 0450 0333422 | 63 | 250 |
| A33.040.183 | B8 0450 0333409 | 40 | 250 | A33.063.280 | B8 0450 0333423 | 63 | 280 |
| A33.040.184 | B8 0450 0333410 | 40 | 280 | A33.063.315 | B8 0450 0333424 | 63 | 315 |
| A33.050.160 | B8 0450 0333411 | 50 | 160 | A33.063.355 | B8 0450 0333425 | 63 | 355 |
| A33.050.180 | B8 0450 0333412 | 50 | 180 | A33.063.400 | B8 0450 0333426 | 63 | 400 |
| A33.050.200 | B8 0450 0333413 | 50 | 200 | A33.080.224 | B8 0450 0333427 | 80 | 224 |
| A33.050.224 | B8 0450 0333414 | 50 | 224 | A33.080.250 | B8 0450 0333428 | 80 | 250 |
| A33.050.250 | B8 0450 0333415 | 50 | 250 | A33.080.280 | B8 0450 0333429 | 80 | 280 |
| A33.050.280 | B8 0450 0333416 | 50 | 280 | A33.080.315 | B8 0450 0333430 | 80 | 315 |
| A33.050.315 | B8 0450 0333417 | 50 | 315 | A33.080.355 | B8 0450 0333431 | 80 | 355 |
| A33.050.355 | B8 0450 0333418 | 50 | 355 | A33.080.400 | B8 0450 0333432 | 80 | 400 |

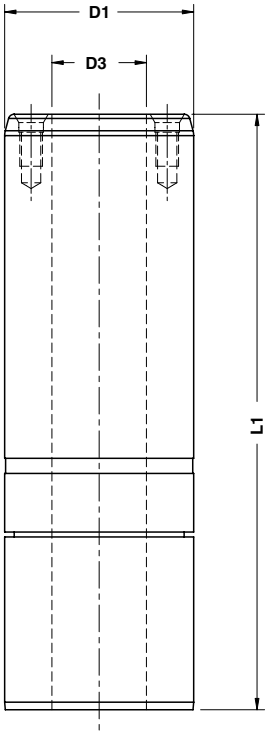
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

10






| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A34.100.280 |

| OMCR CODE | SIMILAR TO | D1 | D3 | L1 | OMCR CODE | SIMILAR TO | D1 | D3 | L1 |
|---|---|---|---|---|---|---|---|---|---|
| A34.100.280 | B8 0450 0333433 | 100 | 50 | 280 | A34.125.450 | B8 0450 0333439 | 125 | 65 | 450 |
| A34.100.315 | B8 0450 0333434 | 100 | 50 | 315 | A34.160.400 | B8 0450 0584356 | 160 | 95 | 400 |
| A34.100.355 | B8 0450 0333435 | 100 | 50 | 355 | A34.160.450 | B8 0450 0333440 | 160 | 95 | 450 |
| A34.100.400 | B8 0450 0333436 | 100 | 50 | 400 | A34.160.500 | B8 0450 0333441 | 160 | 95 | 500 |
| A34.125.355 | B8 0450 0333437 | 125 | 65 | 355 | A34.160.560 | B8 0450 0333442 | 160 | 95 | 560 |
| A34.125.400 | B8 0450 0333438 | 125 | 65 | 400 | | | | | |

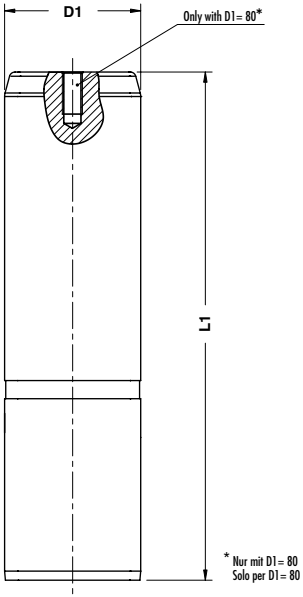
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA



**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

10




ORDER EXAMPLE

| OMCR CODE |
|---|
| A35.025.125 |

| OMCR CODE | SIMILAR TO | D1 | L1 |
|---|---|---|---|
| A35.025.125 | B8 0450 0528716 | 25 | 125 |
| A35.025.140 | B8 0450 0528717 | 25 | 140 |
| A35.025.160 | B8 0450 0528718 | 25 | 160 |
| A35.025.128 | B8 0450 0528719 | 25 | 180 |
| A35.032.140 | B8 0450 0531827 | 32 | 140 |
| A35.032.160 | B8 0450 0332519 | 32 | 160 |
| A35.032.180 | B8 0450 0332520 | 32 | 180 |
| A35.032.200 | B8 0450 0332521 | 32 | 200 |
| A35.040.140 | B8 0450 0531828 | 40 | 140 |
| A35.040.160 | B8 0450 0332522 | 40 | 160 |
| A35.040.180 | B8 0450 0332523 | 40 | 180 |
| A35.040.200 | B8 0450 0332524 | 40 | 200 |
| A35.040.224 | B8 0450 0332525 | 40 | 224 |
| A35.040.250 | B8 0450 0332526 | 40 | 250 |
| A35.040.280 | B8 0450 0333401 | 40 | 280 |
| A35.050.160 | B8 0450 0332527 | 50 | 160 |
| A35.050.180 | B8 0450 0332528 | 50 | 180 |
| A35.050.200 | B8 0450 0332529 | 50 | 200 |
| A35.050.224 | B8 0450 0332530 | 50 | 224 |

| OMCR CODE | SIMILAR TO | D1 | L1 |
|---|---|---|---|
| A35.050.250 | B8 0450 0332531 | 50 | 250 |
| A35.050.280 | B8 0450 0332532 | 50 | 280 |
| A35.050.315 | B8 0450 0332533 | 50 | 315 |
| A35.050.355 | B8 0450 0332639 | 50 | 355 |
| A35.063.180 | B8 0450 0332534 | 63 | 180 |
| A35.063.200 | B8 0450 0332535 | 63 | 200 |
| A35.063.224 | B8 0450 0332536 | 63 | 224 |
| A35.063.250 | B8 0450 0332537 | 63 | 250 |
| A35.063.280 | B8 0450 0332538 | 63 | 280 |
| A35.063.315 | B8 0450 0332539 | 63 | 315 |
| A35.063.355 | B8 0450 0332540 | 63 | 355 |
| A35.063.400 | B8 0450 0332541 | 63 | 400 |
| A35.080.224 | B8 0450 0332542 | 80 | 224 |
| A35.080.250 | B8 0450 0332543 | 80 | 250 |
| A35.080.280 | B8 0450 0332544 | 80 | 280 |
| A35.080.315 | B8 0450 0332545 | 80 | 315 |
| A35.080.355 | B8 0450 0332546 | 80 | 355 |
| A35.080.400 | B8 0450 0332547 | 80 | 400 |

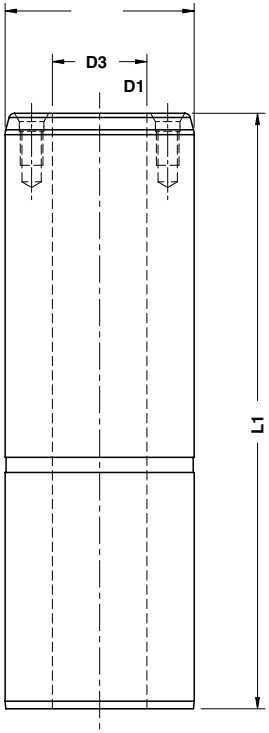
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA GUIDA

**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

10






| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A36.100.280 |

| OMCR CODE | SIMILAR TO | D1 | D3 | L1 |
|---|---|---|---|---|
| A36.100.280 | B8 0450 0332548 | 100 | 50 | 280 |
| A36.100.315 | B8 0450 0332549 | 100 | 50 | 315 |
| A36.100.355 | B8 0450 0332550 | 100 | 50 | 355 |
| A36.100.400 | B8 0450 0332551 | 100 | 50 | 400 |
| A36.125.355 | B8 0450 0332552 | 125 | 65 | 355 |
| A36.125.400 | B8 0450 0332553 | 125 | 65 | 400 |

| OMCR CODE | SIMILAR TO | D1 | D3 | L1 |
|---|---|---|---|---|
| A36.125.450 | B8 0450 0332554 | 125 | 65 | 450 |
| A36.160.400 | B8 0450 0584357 | 160 | 95 | 400 |
| A36.160.450 | B8 0450 0332555 | 160 | 95 | 450 |
| A36.160.500 | B8 0450 0332556 | 160 | 95 | 500 |
| A36.160.560 | B8 0450 0332557 | 160 | 95 | 560 |

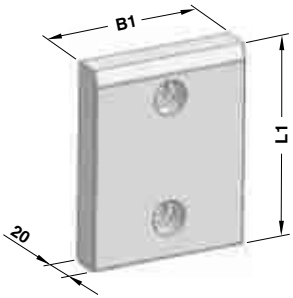
## WEAR PLATE STEEL - GLEITPLATTE STAHL - PIASTRA GUIDA IN ACCIAIO

**Notes**

**Material:** X155CrVMo121KU
**HRC:** 60÷62

10






FORM A



FORM B



FORM C

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A37.060.080 A |

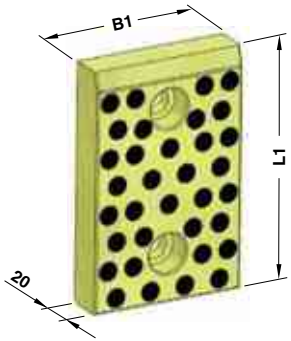
| OMCR CODE | SIMILAR TO | B1 | L1 | FORM | OMCR CODE | SIMILAR TO | B1 | L1 | FORM |
|---|---|---|---|---|---|---|---|---|---|
| A37.060.080 | B8 0460 0332860 | 60 | 80 | A | A37.110.160 | B8 0460 0332875 | 110 | 160 | A |
| A37.060.100 | B8 0460 0332861 | 60 | 100 | A | A37.110.200 | B8 0460 0332876 | 110 | 200 | A |
| A37.060.125 | B8 0460 0332862 | 60 | 125 | A | A37.135.050 | B8 0460 0332877 | 135 | 50 | B |
| A37.060.160 | B8 0460 0332863 | 60 | 160 | A | A37.135.080 | B8 0460 0332878 | 135 | 80 | B |
| A37.060.200 | B8 0460 0332864 | 60 | 200 | A | A37.135.100 | B8 0460 0332879 | 135 | 100 | C |
| A37.090.050 | B8 0460 0332865 | 90 | 50 | B | A37.135.125 | B8 0460 0332880 | 135 | 125 | C |
| A37.090.080 | B8 0460 0332866 | 90 | 80 | A | A37.135.160 | B8 0460 0332881 | 135 | 160 | C |
| A37.090.100 | B8 0460 0332867 | 90 | 100 | A | A37.135.200 | B8 0460 0332882 | 135 | 200 | C |
| A37.090.125 | B8 0460 0332868 | 90 | 125 | A | A37.170.050 | B8 0460 0332883 | 170 | 50 | B |
| A37.090.160 | B8 0460 0332869 | 90 | 160 | A | A37.170.080 | B8 0460 0332884 | 170 | 80 | B |
| A37.090.200 | B8 0460 0332870 | 90 | 200 | A | A37.170.100 | B8 0460 0332885 | 170 | 100 | C |
| A37.110.050 | B8 0460 0332871 | 110 | 50 | B | A37.170.125 | B8 0460 0332886 | 170 | 125 | C |
| A37.110.080 | B8 0460 0332872 | 110 | 80 | B | A37.170.160 | B8 0460 0332887 | 170 | 160 | C |
| A37.110.100 | B8 0460 0332873 | 110 | 100 | A | A37.170.200 | B8 0460 0332888 | 170 | 200 | C |
| A37.110.125 | B8 0460 0332874 | 110 | 125 | A | | | | | |

# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




FORM A



FORM B



FORM C

ORDER EXAMPLE

| OMCR CODE |
|---|
| A38.050.080 |

| OMCR CODE | SIMILAR TO | B1 | L1 | FORM |
|---|---|---|---|---|
| A38.050.080 | B8 0460 0332587 | 50 | 80 | A |
| A38.050.100 | B8 0460 0332588 | 50 | 100 | A |
| A38.050.125 | B8 0460 0332589 | 50 | 125 | A |
| A38.050.160 | B8 0460 0332590 | 50 | 160 | A |
| A38.050.200 | B8 0460 0332591 | 50 | 200 | A |
| A38.080.050 | B8 0460 0332592 | 80 | 50 | B |
| A38.080.080 | B8 0460 0332593 | 80 | 80 | A |
| A38.080.100 | B8 0460 0332594 | 80 | 100 | A |
| A38.080.125 | B8 0460 0332595 | 80 | 125 | A |
| A38.080.160 | B8 0460 0332596 | 80 | 160 | A |
| A38.080.200 | B8 0460 0332597 | 80 | 200 | A |
| A38.100.050 | B8 0460 0332598 | 100 | 50 | B |
| A38.100.080 | B8 0460 0332599 | 100 | 80 | B |
| A38.100.100 | B8 0460 0332600 | 100 | 100 | A |
| A38.100.125 | B8 0460 0332601 | 100 | 125 | A |

| OMCR CODE | SIMILAR TO | B1 | L1 | FORM |
|---|---|---|---|---|
| A38.100.160 | B8 0460 0332602 | 100 | 160 | A |
| A38.100.200 | B8 0460 0332603 | 100 | 200 | A |
| A38.125.050 | B8 0460 0332604 | 125 | 50 | B |
| A38.125.080 | B8 0460 0332605 | 125 | 80 | B |
| A38.125.100 | B8 0460 0332606 | 125 | 100 | C |
| A38.125.125 | B8 0460 0332607 | 125 | 125 | C |
| A38.125.160 | B8 0460 0332608 | 125 | 160 | C |
| A38.125.200 | B8 0460 0332609 | 125 | 200 | C |
| A38.160.050 | B8 0460 0332610 | 160 | 50 | B |
| A38.160.080 | B8 0460 0332611 | 160 | 80 | B |
| A38.160.100 | B8 0460 0332612 | 160 | 100 | C |
| A38.160.125 | B8 0460 0332613 | 160 | 125 | C |
| A38.160.160 | B8 0460 0332614 | 160 | 160 | C |
| A38.160.200 | B8 0460 0332615 | 160 | 200 | C |

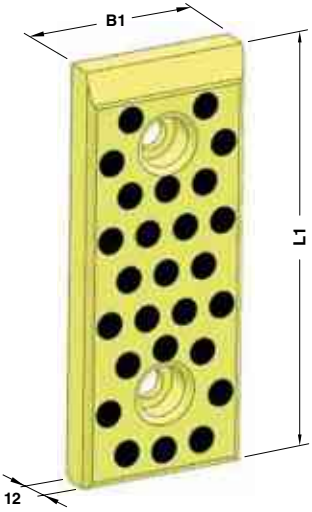
# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK





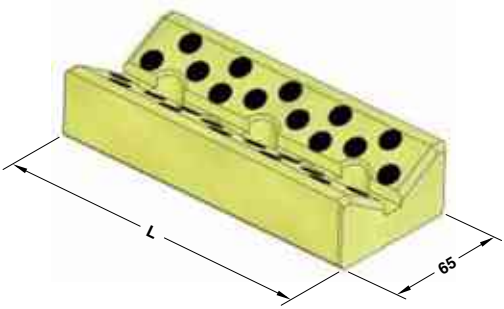

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A39.030.080 |

| OMCR CODE | SIMILAR TO | B1 | L1 | OMCR CODE | SIMILAR TO | B1 | L1 |
|---|---|---|---|---|---|---|---|
| A39.030.080 | B8 0460 0333603 | 30 | 80 | A39.060.080 | B8 0460 0333613 | 60 | 80 |
| A39.030.100 | B8 0460 0333604 | 30 | 100 | A39.060.100 | B8 0460 0333614 | 60 | 100 |
| A39.030.125 | B8 0460 0333605 | 30 | 125 | A39.060.125 | B8 0460 0333615 | 60 | 125 |
| A39.030.160 | B8 0460 0333606 | 30 | 160 | A39.060.160 | B8 0460 0333616 | 60 | 160 |
| A39.030.200 | B8 0460 0333607 | 30 | 200 | A39.060.200 | B8 0460 0333617 | 60 | 200 |
| A39.040.080 | B8 0460 0333608 | 40 | 80 | A39.080.080 | B8 0460 0789442 | 80 | 80 |
| A39.040.100 | B8 0460 0333609 | 40 | 100 | A39.080.100 | B8 0460 0789444 | 80 | 100 |
| A39.040.125 | B8 0460 0333610 | 40 | 125 | A39.080.125 | B8 0460 0789446 | 80 | 125 |
| A39.040.160 | B8 0460 0333611 | 40 | 160 | A39.080.160 | B8 0460 0789447 | 80 | 160 |
| A39.040.200 | B8 0460 0333612 | 40 | 200 | A39.080.200 | B8 0460 0789448 | 80 | 200 |

## A40

NOT HOMOLOGATED IN MERCEDES-BENZ

### "V" DRIVER SELF-LUBRICATING
### PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
### GUIDA A "V" AUTOLUBRIFICANTE




**Notes**

**Material:** Bronze + Graphite
**HB** >190

STOCK

ORDER EXAMPLE

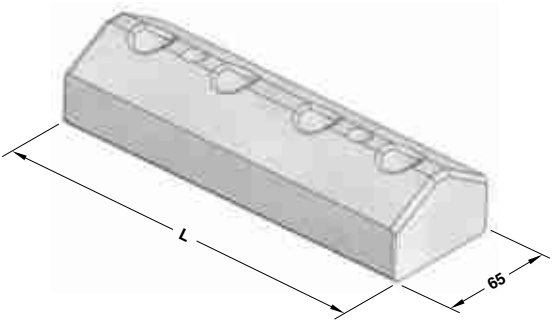
| OMCR CODE |
|---|
| A40.065.150 |

| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A40.065.150 | B8 0461 0330549 | 150 |
| A40.065.200 | B8 0461 0330550 | 200 |
| A40.065.250 | B8 0461 0330551 | 250 |
| A40.065.300 | B8 0461 0330552 | 300 |

## A41

NOT HOMOLOGATED IN MERCEDES-BENZ

### "V" DRIVER STEEL - PRISMENFÜHRUNG STAHL - GUIDA A "V" IN ACCIAIO




**Notes**

**Material:** CK45
**HRC:** 58÷60

STOCK

ORDER EXAMPLE

| OMCR CODE |
|---|
| A41.065.150 |

| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A41.065.150 | B8 0461 0330553 | 150 |
| A41.065.200 | B8 0461 0330554 | 200 |
| A41.065.250 | B8 0461 0330555 | 250 |
| A41.065.300 | B8 0461 0330556 | 300 |

## CAM DWELL STEEL
## UBERLAUFKEILE STAHL
## CUNEO IN ACCIAIO

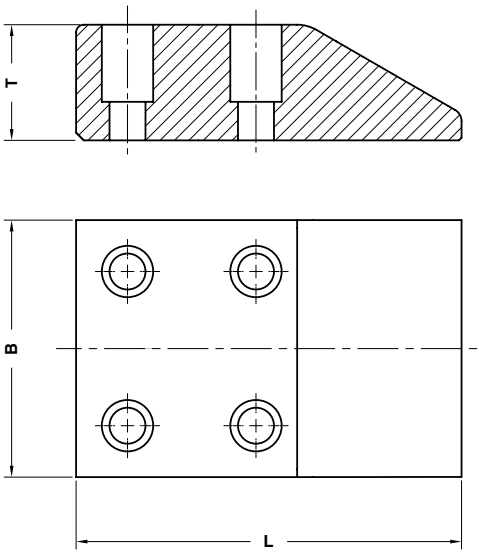


**Notes**

**Material:** X155CrVMo121KU
**HRC:** 58÷62

STOCK

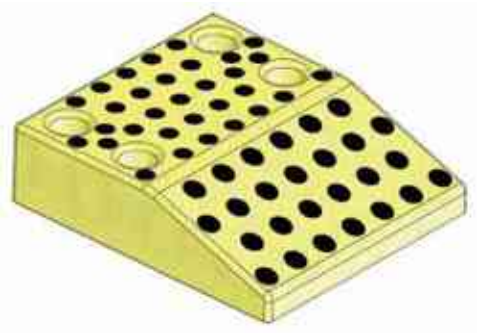





| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A42.100.150 |

| OMCR CODE | SIMILAR TO | B | L | T |
|---|---|---|---|---|
| A42.100.150 | B8 0467 0528447 | 100 | 150 | 45 |
| A42.100.170 | B8 0467 0528448 | 100 | 170 | 60 |
| A42.125.150 | B8 0467 0528449 | 125 | 150 | 45 |
| A42.125.170 | B8 0467 0528450 | 125 | 170 | 60 |
| A42.150.150 | B8 0467 0528451 | 150 | 150 | 45 |
| A42.150.170 | B8 0467 0528452 | 150 | 170 | 60 |

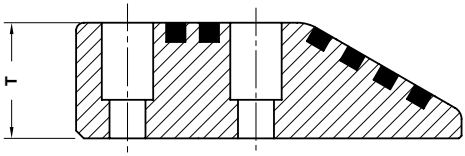
# CAM DWELL WEAR PLATE SELF-LUBRICATING
# UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
# CUNEO AUTOLUBRIFICANTE

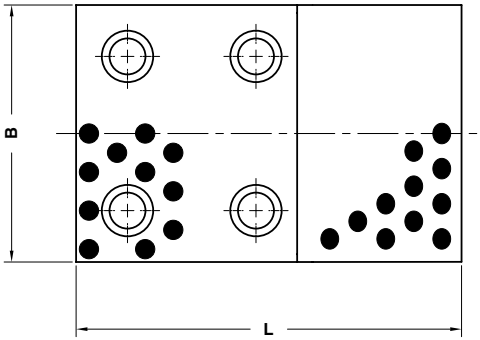


**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK ⟺




ORDER EXAMPLE

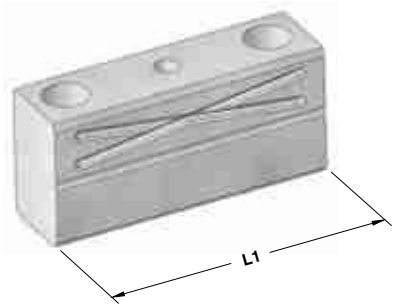
| OMCR CODE |
|---|
| B8 0467 0528753 |

| OMCR CODE | SIMILAR TO | B | L | T |
|---|---|---|---|---|
| A43.100.150 | B8 0467 0528752 | 100 | 150 | 45 |
| A43.100.170 | B8 0467 0528753 | 100 | 170 | 60 |
| A43.125.150 | B8 0467 0528754 | 125 | 150 | 45 |
| A43.125.170 | B8 0467 0528755 | 125 | 170 | 60 |
| A43.150.150 | B8 0467 0528756 | 150 | 150 | 45 |
| A43.150.170 | B8 0467 0528757 | 150 | 170 | 60 |

## A44

NOT HOMOLOGATED IN MERCEDES-BENZ

### LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO




**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

STOCK

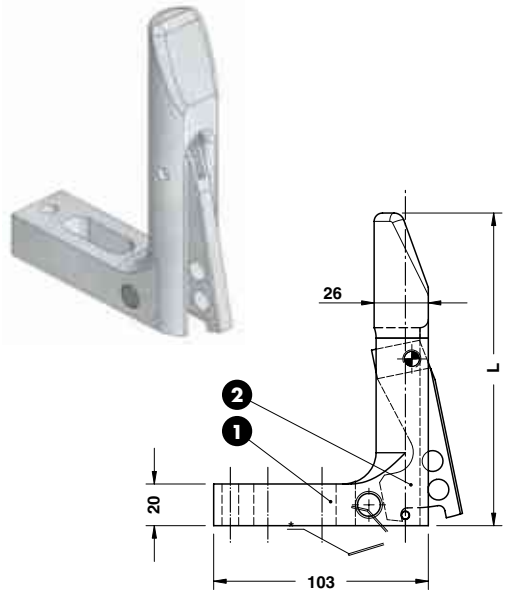
| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A44.075.100 |

| OMCR CODE | SIMILAR TO | L1 |
|---|---|---|
| A44.075.100 | B8 0467 0091638 | 100 |
| A44.075.160 | B8 0467 0091639 | 160 |

## A45

NOT HOMOLOGATED IN MERCEDES-BENZ

### GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTROLLE - RIFERIMENTO PER SENSORE




**Notes**

1. **Material:** CK60
2. **Material:** St37 - **HRC:** 58÷60

STOCK ... *

*Spring - Feder - Molla

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A45.030.120 |

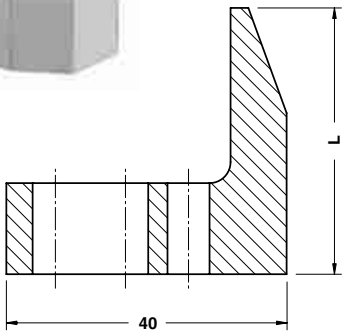
| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A45.030.120 | B8 0541 1049305 | 120 |
| A45.030.150 | B8 0541 1049306 | 150 |
| A45.030.180 | B8 0541 1049307 | 180 |
| A45.030.250 | B8 0541 1049308 | 250 |

## A46

NOT HOMOLOGATED IN MERCEDES-BENZ

### GAGE - EINWEISER - RIFERIMENTO






| Notes |
|---|
| **Material:** 21MnCr5 - **HRC:** 58÷60 |

STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A46.020.028 |

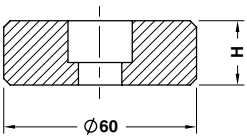
| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A46.020.028 | B8 0541 1086747 | 28 |
| A46.020.038 | B8 0541 1086749 | 38 |
| A46.020.048 | B8 0541 1086750 | 48 |
| A46.020.058 | B8 0541 138392 | 58 |
| A46.020.068 | B8 0541 138393 | 68 |
| A46.020.078 | B8 0541 138395 | 78 |

## A47

NOT HOMOLOGATED IN MERCEDES-BENZ

### SPACER - DISTANZSCHEIBE - DISTANZIALE






| Notes |
|---|
| **Material:** CK45 |

STOCK

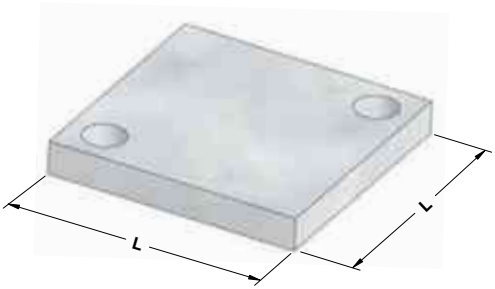
| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A47.020.060 |

| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A47.020.060 | B8 0550 0333522 | 20 |
| A47.030.060 | B8 0550 0333523 | 30 |
| A47.040.060 | B8 0550 0528689 | 40 |

## A48

NOT HOMOLOGATED IN MERCEDES-BENZ

### BACKING PLATE - DRUCKPLATTE - REAZIONE PER CILINDRO




**Notes**

**Material:** 90MnCrV8
**HRC:** 49÷52

STOCK

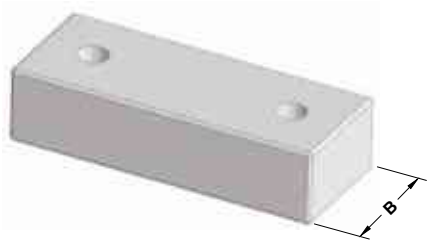
| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A48.012.090 |

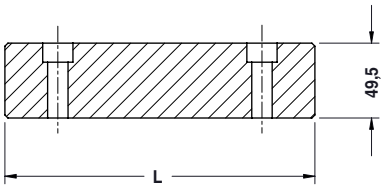
| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A48.012.090 | B8 0561 0347055 | 90 |
| A48.012.060 | B8 0561 0544586 | 60 |
| A48.012.100 | B8 0561 0343592 | 100 |

## A49

NOT HOMOLOGATED IN MERCEDES-BENZ

### STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE




**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A49.080.155 |

| OMCR CODE | SIMILAR TO | B | L |
|---|---|---|---|
| A49.080.155 | B8 0561 0377769 | 80 | 155 |
| A49.080.205 | B8 0561 0376641 | 80 | 205 |
| A49.100.245 | B8 0561 0376642 | 100 | 245 |

## A50

NOT HOMOLOGATED IN MERCEDES-BENZ

### LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO

| Notes |
|---|
| **Material:** 16MnCr5<br>**HRC:** 60÷62 |

STOCK



| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A50.040.067 |

| OMCR CODE | SIMILAR TO |
|---|---|
| A50.040.067 | B8 0602 0533447 |

## A51

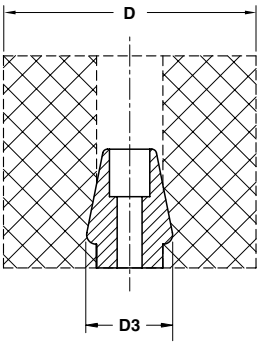
NOT HOMOLOGATED IN MERCEDES-BENZ

### SPRING PIN - AUFNAHMEBOLZEN - PERNO PER MOLLA

| Notes |
|---|
| **Material:** CK45 |

STOCK






| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A51.028.050 |

| OMCR CODE | SIMILAR TO | D | D3 |
|---|---|---|---|
| A51.028.050 | B8 0604 0333552 | 63 | 28 |
| A51.032.050 | B8 0604 0333553 | 80÷100 | 32 |
| A51.038.050 | B8 0604 0333554 | 125÷140 | 38 |

## A52

NOT HOMOLOGATED IN MERCEDES-BENZ

### LOCATING CONE - ZENTRIERZAPFEN - CONO DI CENTRAGGIO



FORM A



FORM B

| Notes |
|---|
| **Material:** 16MnCr5 - **HRC:** 60÷64 |

STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A52.058.100 |

| OMCR CODE | SIMILAR TO | FORM |
|---|---|---|
| A52.058.100 | B8 0604 0372845 | A |
| A52.058.100 | B8 0604 0345936 | B |

## A53

NOT HOMOLOGATED IN MERCEDES-BENZ

### LOCATING CONE - KEGELAUFSATZ - CONO DI CENTRAGGIO



FORM A



FORM B

| Notes |
|---|
| **Material:** 16MnCr5 - **HRC:** 60÷64 |

STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A53.058.100 |

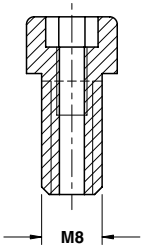
| OMCR CODE | SIMILAR TO | FORM |
|---|---|---|
| A53.058.100 | B8 0624 0372844 | A |
| A53.058.100 | B8 0624 0345931 | B |

## A54

NOT HOMOLOGATED IN MERCEDES-BENZ

### SPACER - ABSTIMMSCHRAUBE - DISTANZIALE






| Notes |
|---|
| DIN 912 8.8 |

STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A54.01250.M8 |

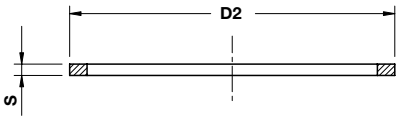
| OMCR CODE | SIMILAR TO |
|---|---|
| A54.01250.M8 | B8 1001 0333539 |

## A55

NOT HOMOLOGATED IN MERCEDES-BENZ

### POST RING - SPRENGRING - ANELLO PER COLONNA

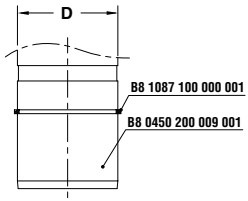





| Notes |
|---|
| **Material:** EN 10270 |

STOCK

**Application example**




| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A55.040.04300 |

| OMCR CODE | SIMILAR TO | D | D2 | S |
|---|---|---|---|---|
| A55.040.04300 | B8 1087 0333184 | 40 | 43 | 1,5 |
| A55.050.05300 | B8 1087 0333185 | 50 | 53 | 1,5 |
| A55.063.06600 | B8 1087 0333186 | 63 | 66 | 1,5 |

| OMCR CODE | SIMILAR TO | D | D2 | S |
|---|---|---|---|---|
| A55.080.08320 | B8 1087 0333187 | 80 | 83,2 | 2 |
| A55.100.01038 | B8 1087 0333188 | 100 | 103,8 | 2,5 |
| A55.125.01288 | B8 1087 0333189 | 125 | 128,8 | 2,5 |

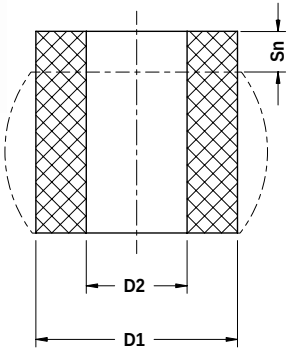
| OMCR CODE | SIMILAR TO | D | D2 | S |
|---|---|---|---|---|
| A55.040.04300 | B8 1087 0333190 | 160 | 164,3 | 2,5 |

## A56

NOT HOMOLOGATED IN MERCEDES-BENZ

### ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO






Sn max = 24 mm

**Notes**

**Material:** Elastomer 92 SH

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| OMCR CODE |
|---|
| A56.063.033 |

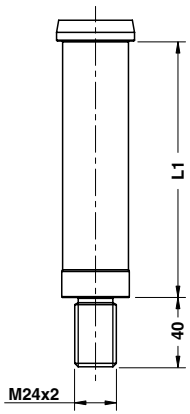
| OMCR CODE | SIMILAR TO | D1 | D2 |
|---|---|---|---|
| A56.063.033 | B8 1123 0332947 | 63 | 33 |
| A56.080.033 | B8 1123 0332948 | 80 | 33 |
| A56.080.040 | B8 1123 0377012 | 80 | 40 |
| A56.090.040 | B8 1123 0377013 | 90 | 40 |

## A57

NOT HOMOLOGATED IN MERCEDES-BENZ

### RETAINER BOLT - HALTEBOLZEN - TIRANTE






**Notes**

**Material:** 42CrMo4
1000÷1200 N/mm²

STOCK

ORDER EXAMPLE

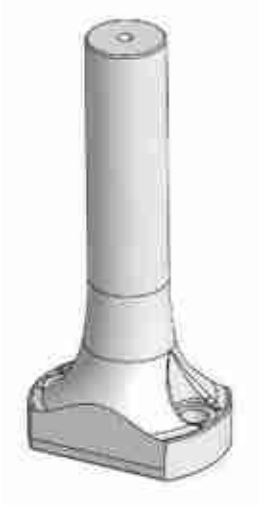
| OMCR CODE |
|---|
| A57.038.048 |

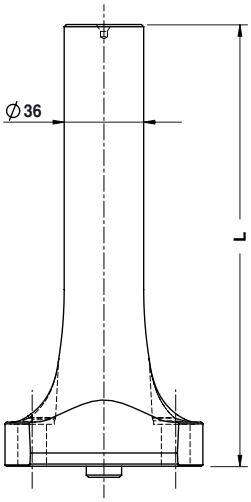
| OMCR CODE | SIMILAR TO | L1 | OMCR CODE | SIMILAR TO | L1 | OMCR CODE | SIMILAR TO | L1 |
|---|---|---|---|---|---|---|---|---|
| A57.038.048 | B8 2002 0373389 | 48 | A57.038.148 | B8 2002 0373405 | 148 | A57.038.248 | B8 2002 0373412 | 248 |
| A57.038.068 | B8 2002 0373390 | 68 | A57.038.168 | B8 2002 0373406 | 168 | A57.038.268 | B8 2002 0373413 | 268 |
| A57.038.088 | B8 2002 0373391 | 88 | A57.038.188 | B8 2002 0373407 | 188 | A57.038.288 | B8 2002 0373414 | 288 |
| A57.038.108 | B8 2002 0373392 | 108 | A57.038.208 | B8 2002 0373409 | 208 | | | |
| A57.038.128 | B8 2002 0373393 | 128 | A57.038.228 | B8 2002 0373410 | 228 | | | |

## A58

NOT HOMOLOGATED IN MERCEDES-BENZ OMCR

### AIR PIN - DRUCKBOLZEN - CANDELA






**Notes**

**Material:** 42CrMo4
800÷1000 N/mm²

10

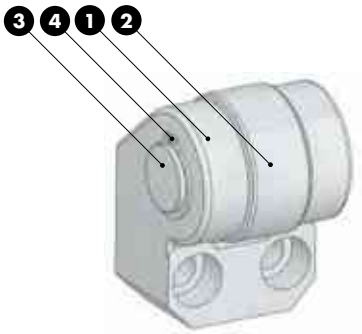
| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A58.036.150 |

| OMCR CODE | SIMILAR TO | L |
|---|---|---|
| A58.036.150 | B8 2002 1152051 | 150 |
| A58.036.175 | B8 2002 1152052 | 175 |
| A58.036.200 | B8 2002 1152053 | 200 |
| A58.036.225 | B8 2002 1152054 | 225 |
| A58.036.250 | B8 2002 1152055 | 250 |
| A58.036.275 | B8 2002 1410472 | 275 |
| A58.036.300 | B8 2002 1410473 | 300 |
| A58.036.325 | B8 2002 1410474 | 325 |
| A58.036.350 | B8 2002 1410475 | 350 |

## A59

NOT HOMOLOGATED IN MERCEDES-BENZ OMCR

### CAM ROLLER - ROLLENBOCK - SUPPORTO CON RULLO




**Notes**

1. **Material:** 42CrMo4
2. NUTR 2552
3. **Material:** X210Cr12 - **HRC** 60÷62
4. E25 DIN 471

STOCK ...

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | A59.025.052 |

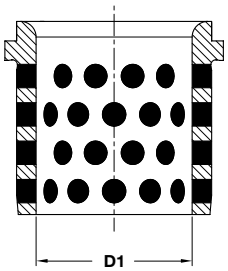
| OMCR CODE | SIMILAR TO |
|---|---|
| A59.025.052 | B8 7466 0333319 |

## E46.10

NOT HOMOLOGATED IN MERCEDES-BENZ

### BUSH SELF-LUBRICATING DIN 9834
### FÜHRUNGSBUCHSE DIN 9834
### BOCCOLA AUTOLUBRIFICANTE DIN 9834






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | E46.10.025040 |

| OMCR CODE | SIMILAR TO | D1 |
|---|---|---|
| E46.10.025040 | B8 0441 0331931 | 25 |
| E46.10.032050 | B8 0441 0331932 | 32 |
| E46.10.040063 | B8 0441 0331933 | 40 |
| E46.10.050071 | B8 0441 0331934 | 50 |
| E46.10.063080 | B8 0441 0331935 | 63 |
| E46.10.080100 | B8 0441 0331936 | 80 |
| E46.10.100125 | B8 0441 0331937 | 100 |
| E46.10.125160 | B8 0441 0331938 | 125 |
| E46.10.160200 | B8 0441 0331939 | 160 |

## E47.10

NOT HOMOLOGATED IN MERCEDES-BENZ

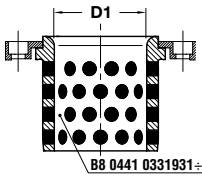
### TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



**Notes**

**Material:** CK45

**Application example**




STOCK

| ORDER EXAMPLE | OMCR CODE |
|---|---|
| | E47.10.202010 |

| OMCR CODE | SIMILAR TO | D1 |
|---|---|---|
| E47.10.202010 | B8 0161 03311940 | 25÷50 |
| E47.10.323216 | B8 0161 03311941 | 63÷160 |


OMCR



# Die Components
# Normalien
# Componenti

OMCR®

STANDARD DIE COMPONENTS

MAIN INDEX

| F33010001÷0049 | F33010038÷0059 | F33010060÷0076 | F33020019÷0026 | F33020036÷0037 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Fürungssäule<br>Colonna guida | Guide post<br>Fürungssäule<br>Colonna guida | Guide post<br>Fürungssäule<br>Colonna guida | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Toe clamp<br>Haltestück<br>Ritegno |
| 443 | 444 | 445 | 446 | 446 |

| F33030001÷0040 | F33030041÷0070 | F3304000÷0138 | F33040121÷F33050012 | F33040024÷0035 |
|---|---|---|---|---|
|  |  |  |  |  |
| Matrix Retainer<br>Aufnahmeplatte<br>Portamatrice | Distance Plate<br>Druckplatte<br>Distanziale | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate self-lubricating<br>Gleitplatte bronze mit festschmierstoff<br>Piastra guida autolubrificante |
| 447 | 448 | 449 | 450 | 451 |

| F33040036÷0044 | F33040084÷0164 | F33040085÷0112 | F33040090÷0093 | F33040100÷0111 |
|---|---|---|---|---|
|  |  |  |  |  |
| Wear plate self-lubricating<br>Gleitplatte mit festschmierstoff<br>Piastra guida autolubrificante | Cam positive return follower<br>Gleitstück<br>Reazione gancio | Wear plate self-lubricating<br>Gleitplatte bronze mit festschmierstoff<br>Piastra guida autolubrificante | "V" driver VDI 3357<br>Prismenführung mit festschmierstoff VDI 3357<br>Guida a "V" VDI 3357 | Angular guide<br>Winkelleiste<br>Guida angolare |
| 452 | 452 | 453 | 453 | 454 |

| F33040139÷0147 | F33040148÷0156 | F33040165÷0176 | F33040177÷0183 | F33040287÷0289 |
|---|---|---|---|---|
|  |  |  |  |  |
| Cam dwell wear plate steel<br>Überlaufkeile stahl<br>Cuneo in acciaio | Cam dwell wear plate self-lubricating<br>Uberlaufkeile bronze mit festschmierstoff<br>Cuneo autolubrificante | Wear plate<br>Gleitplatte<br>Piastra guida | Wear plate<br>Gleitplatte<br>Piastra guida | Positive Return<br>Zwangsrückholer<br>Gancio |
| 455 | 456 | 457 | 457 | 458 |

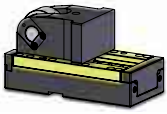
| F33040288÷0290 | F33040305÷0320 | F33050018÷0026 | F33050069÷0072 | F33050081÷0083 |
|---|---|---|---|---|
|  |  |  |  |  |
| Positive Return<br>Zwangsrückholer<br>Gancio | Wear plate<br>Gleitplatte<br>Piastra guida | Wear plate<br>Gleitplatte<br>Piastra guida | "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida a "V" VDI 3357 | "V" driver VDI 3357<br>Prismenführung mit festschmierstoff VDI 3357<br>Guida a "V" VDI 3357 |
| 458 | 459 | 460 | 460 | 461 |

| F33050084÷0086 | F33050087 | F33050088 | F33050089÷0100 | F33050101÷0107 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida a "V" VDI 3357 | "V" driver<br>Prismenführung<br>Guida a "V" | "V" driver self-lubricating<br>Prismenführung bronze mit festschmierstoff<br>Guida a "V" autolubrificante | Wear plate<br>Gleitplatte<br>Piastra guida | Wear plate<br>Gleitplatte<br>Piastra guida |
| 461 | 462 | 462 | 463 | 463 |

| F33150011÷0015 | F33150037÷0044 | F33150045÷0048 | F33150060÷0061 | F33150087÷0091 |
|---|---|---|---|---|
|  |  |  |  |  |
| Pad Retainer<br>Steckbolzen<br>Perno di arresto | Aerial Pin<br>Luftbolzen<br>Candela | Air Pin<br>Druckbolzen<br>Candela | Locating Pin<br>Zentrierbolzen<br>Centraggio | Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento |
| 464 | 464 | 465 | 465 | 466 |

| F33160106÷0107 | F33160108÷0204 | F33160157÷0188 | F33160218 | F33160230÷0250 |
|---|---|---|---|---|
|  |  |  |  |  |
| Fixing plate<br>Befestigungsplatte<br>Piastra di fissaggio | Distance plate<br>Abstimmscheibe<br>Distanziale | Shim plate<br>Ausgleichbleche<br>Piastra di spessoramento | Fastening plates<br>Halteplatte<br>Piastre di ritegno | Shim punch retainer<br>Druckplatte<br>Spessore per portapunzone |
| 467 | 467 | 468 | 469 | 469 |

| F33160226÷0344 | F33160345÷0371 | F33180007÷0012 | F33180020÷0021 | F33190003 ÷0038 |
|---|---|---|---|---|
|  |  |  |  |  |
| Striker plate<br>Distanzkappe<br>Reazione per cilindro | Striker plate<br>Distanzkappe<br>Reazione per cilindro | Washer<br>Scheibe<br>Rondella | Distance plate<br>Abstimmscheibe<br>Distanziale | Locating Cone<br>Kegeldistanz<br>Cono di centraggio |
| 470 | 471 | 472 | 472 | 473 |

| F33190005÷0026 | F33190031÷0034 | F33190035÷0036 | F33260009÷0033 | F33220332÷0343 |
|---|---|---|---|---|
|  |  |  |  |  |
| Spacer<br>Distanzstück<br>Distanziale | Bottoming block<br>Abstandblock<br>Distanziale | Spacer<br>Distanzstück<br>Distanziale | Key<br>Passfeder<br>Chiavetta | Roller cam unit<br>Rollenschieber<br>Camma a rullo |
| 473 | 474 | 474 | 475 | 476 |

| F33260004÷0397 | F33260014÷0024 | F33260032 | F33260203÷0205 | F33260223÷0342 |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage<br>Einweiser<br>Riferimento | Acceleration cam<br>Schiebervorbeschleunigung<br>Camma di accelerazione | Cam roller<br>Rollenbock<br>Supporto con rullo | Front gage<br>Einlaufanschlag<br>Portasensore | Slide stop block<br>Schieberanschlag<br>Arresto slitta |
| 477 | 477 | 478 | 478 | 479 |

| F33290002 | F33290041 | F33290043÷0164 | F33290063 | F33290068 |
|---|---|---|---|---|
|  |  |  |  |  |
| Stamp rack pillar<br>Markierstempelkonsole<br>Colonna portatimbri | Counter-pressure plate<br>Gegendruckplatte<br>Piastrina di reazione | Stamp<br>Buchstabenstempel<br>Marchio | Stamp<br>Buchstabenstempel<br>Marchio | Visual locator punch<br>Endkontrollstempel<br>Punzone di visualizzazione |
| 480 | 480 | 481 | 481 | 482 |

| F33310014÷0022 | F33310023÷0024 | F33310029÷0036 | F33910001 | F33910002 |
|---|---|---|---|---|
|  |  |  |  |  |
| Clamping flange for gas springs<br>Klemmflansch für Gasdruckfedern<br>Supporto per molle a gas | Urethane spring retainer<br>Elastomerhalterung<br>Ritegno per elastomero | Clamping flange for gas springs<br>Klemmflansch für Gasdruckfedern<br>Supporto per molle a gas | Air coupling bracket<br>Luftanschlussblock<br>Supporto innesti rapidi | Air coupling bracket<br>Luftanschlussblock<br>Supporto innesti rapidi |
| 482 | 483 | 483 | 484 | 484 |

| F33910003 | F33910043 | F33910044 | F33910110÷0115 | J06910069÷70 |
|---|---|---|---|---|
|  |  |  |  |  |
| Air coupling bracket<br>Luftanschlussblock<br>Supporto innesti rapidi | Retainer for stamps<br>Halteplatte<br>Portatimbri | Retainer for stamps<br>Halteplatte<br>Portatimbri | Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di sollevamento | Sensor mounting brackets<br>Sensorhalterungen<br>Staffa per sensore |
| 484 | 485 | 485 | 486 | 486 |

| M16045182÷184 | M36600070÷0073 |
|---|---|
|  |  |
| Shock absorber<br>Halteelement<br>Ammortizzatore | Washer<br>Scheibe<br>Rondella |
| 487 | 487 |

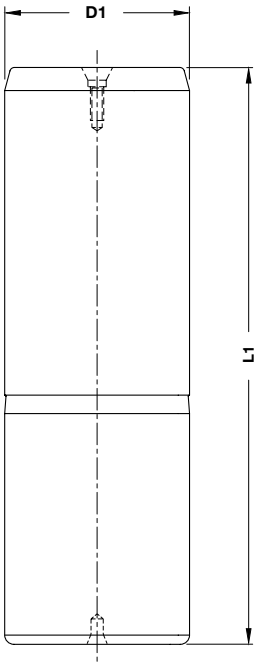

24

## GUIDE POST - FÜRUNGSSÄULE - COLONNA GUIDA

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62






ORDER EXAMPLE

| OPEL CODE |
|---|
| F33010002 |

| OPEL CODE | D1 | L1 |
|---|---|---|
| F33010001 | 25 | 125 |
| F33010002 | 25 | 140 |
| F33010003 | 25 | 160 |
| F33010004 | 25 | 180 |
| F33010005 | 32 | 140 |
| F33010006 | 32 | 160 |
| F33010007 | 32 | 180 |
| F33010008 | 32 | 200 |
| F33010009 | 40 | 140 |
| F33010010 | 40 | 160 |
| F33010011 | 40 | 180 |
| F33010012 | 40 | 200 |
| F33010013 | 40 | 224 |
| F33010014 | 40 | 250 |

| OPEL CODE | D1 | L1 |
|---|---|---|
| F33010015 | 40 | 280 |
| F33010016 | 50 | 160 |
| F33010017 | 50 | 180 |
| F33010018 | 50 | 200 |
| F33010019 | 50 | 224 |
| F33010020 | 50 | 250 |
| F33010021 | 50 | 280 |
| F33010022 | 50 | 315 |
| F33010023 | 50 | 355 |
| F33010024 | 63 | 180 |
| F33010025 | 63 | 200 |
| F33010026 | 63 | 224 |
| F33010027 | 63 | 250 |
| F33010028 | 63 | 280 |

| OPEL CODE | D1 | L1 |
|---|---|---|
| F33010029 | 63 | 315 |
| F33010030 | 63 | 355 |
| F33010031 | 63 | 400 |
| F33010032 | 80 | 224 |
| F33010033 | 80 | 250 |
| F33010034 | 80 | 280 |
| F33010035 | 80 | 315 |
| F33010036 | 80 | 355 |
| F33010037 | 80 | 400 |
| F33010046 | 63 | 450 |
| F33010047 | 63 | 500 |
| F33010048 | 80 | 450 |
| F33010049 | 80 | 500 |

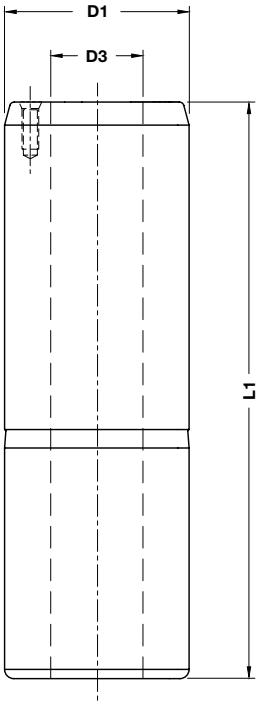
## GUIDE POST - FÜRUNGSSÄULE - COLONNA GUIDA

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10






ORDER EXAMPLE

| OPEL CODE |
|---|
| F33010038 |

| OPEL CODE | D1 | D3 | L1 |
|---|---|---|---|
| F33010038 | 100 | 50 | 280 |
| F33010039 | 100 | 50 | 315 |
| F33010040 | 100 | 50 | 355 |
| F33010041 | 100 | 50 | 400 |
| F33010042 | 125 | 65 | 315 |
| F33010043 | 125 | 65 | 355 |
| F33010044 | 125 | 65 | 400 |
| F33010045 | 125 | 65 | 450 |
| F33010050 | 100 | 50 | 450 |

| OPEL CODE | D1 | D3 | L1 |
|---|---|---|---|
| F33010051 | 100 | 50 | 500 |
| F33010052 | 100 | 50 | 550 |
| F33010053 | 100 | 50 | 600 |
| F33010054 | 100 | 50 | 650 |
| F33010055 | 125 | 65 | 500 |
| F33010056 | 125 | 65 | 550 |
| F33010057 | 125 | 65 | 600 |
| F33010058 | 125 | 65 | 650 |

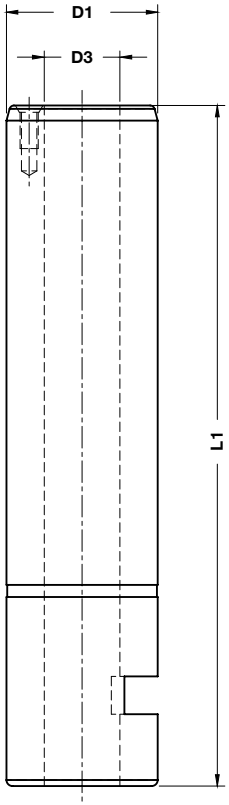
## GUIDE POST - FÜRUNGSSÄULE - COLONNA GUIDA



**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62






| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33010061 |

| OPEL CODE | D1 | D3 | L1 |
|---|---|---|---|
| F33010060 | 100 | 50 | 280 |
| F33010061 | 100 | 50 | 315 |
| F33010062 | 100 | 50 | 355 |
| F33010063 | 100 | 50 | 400 |
| F33010064 | 100 | 50 | 450 |
| F33010065 | 100 | 50 | 500 |

| OPEL CODE | D1 | D3 | L1 |
|---|---|---|---|
| F33010066 | 100 | 50 | 550 |
| F33010067 | 100 | 50 | 600 |
| F33010068 | 100 | 50 | 650 |
| F33010069 | 125 | 65 | 315 |
| F33010070 | 125 | 65 | 355 |
| F33010071 | 125 | 65 | 400 |

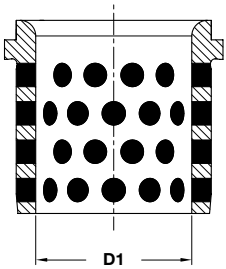
| OPEL CODE | D1 | D3 | L1 |
|---|---|---|---|
| F33010072 | 125 | 65 | 450 |
| F33010073 | 125 | 65 | 500 |
| F33010074 | 125 | 65 | 550 |
| F33010075 | 125 | 65 | 600 |
| F33010076 | 125 | 65 | 650 |

# F3302

OMCR

## BUSH SELF-LUBRICATING - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33020020 |

| OPEL CODE | D1 |
|---|---|
| F33020019 | 25 |
| F33020020 | 32 |
| F33020021 | 40 |
| F33020022 | 50 |
| F33020023 | 63 |
| F33020024 | 80 |
| F33020025 | 100 |
| F33020026 | 125 |

# F3302

OMCR

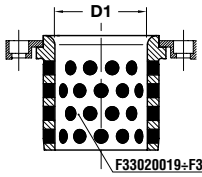
## TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



**Notes**

**Material:** CK45

**Application example**




STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33020037 |

| OPEL CODE | D1 |
|---|---|
| F33020036 | 25÷50 |
| F33020037 | 63÷125 |

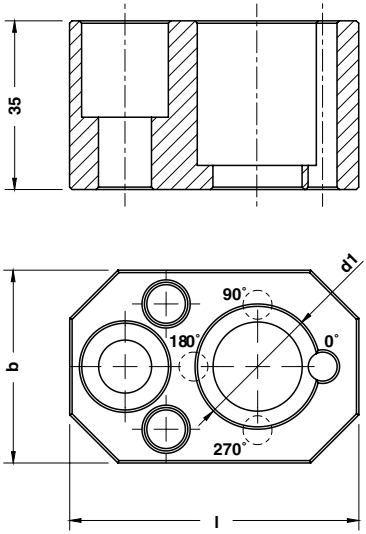
## MATRIX RETAINER - AUFNAHMEPLATTE - PORTAMATRICE



| Notes |
| --- |
| **Material:** CK45 |

STOCK






| ORDER EXAMPLE | OPEL CODE |
| --- | --- |
| | F33030002 |

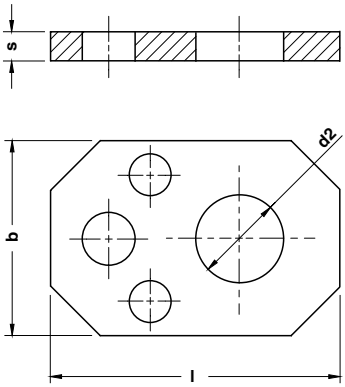
| OPEL CODE | | | | b | d1 | l |
| --- | --- | --- | --- | --- | --- | --- |
| DOWEL PIN LOCATION | | | | | | |
| 0° | 90° | 180° | 270° | | | |
| F33030001 | F33030011 | F33030021 | F33030031 | 40 | 10 | 60 |
| F33030002 | F33030012 | F33030022 | F33030032 | 40 | 13 | 60 |
| F33030003 | F33030013 | F33030023 | F33030033 | 40 | 16 | 60 |
| F33030004 | F33030014 | F33030024 | F33030034 | 40 | 20 | 60 |
| F33030006 | F33030016 | F33030026 | F33030036 | 40 | 25 | 60 |
| F33030007 | F33030017 | - | F33030037 | 40 | 32 | 60 |
| F33030008 | F33030018 | F33030028 | F33030038 | 60 | 38 | 80 |
| F33030009 | F33030019 | F33030029 | F33030039 | 60 | 45 | 80 |
| F33030010 | F33030020 | - | F33030040 | 60 | 50 | 80 |

## DISTANCE PLATE - DRUCKPLATTE - DISTANZIALE

| Notes |
|---|
| **Material:** CK45 |

STOCK





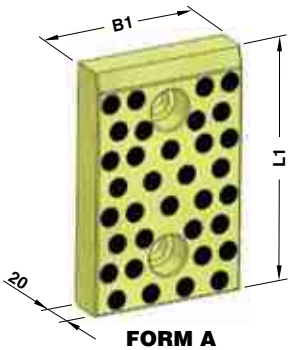

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33030042 |

| OPEL CODE | b | d2 | l | s |
|---|---|---|---|---|
| F33030041 | 40 | 6,5 | 60 | 2 |
| F33030042 | 40 | 6,5 | 60 | 4 |
| F33030043 | 40 | 6,5 | 60 | 6 |
| F33030044 | 40 | 9,5 | 60 | 2 |
| F33030045 | 40 | 9,5 | 60 | 4 |
| F33030046 | 40 | 9,5 | 60 | 6 |
| F33030047 | 40 | 11 | 60 | 2 |
| F33030048 | 40 | 11 | 60 | 4 |
| F33030049 | 40 | 11 | 60 | 6 |
| F33030050 | 40 | 13,5 | 60 | 2 |
| F33030051 | 40 | 13,5 | 60 | 4 |
| F33030052 | 40 | 13,5 | 60 | 6 |
| F33030056 | 40 | 19 | 60 | 2 |
| F33030057 | 40 | 19 | 60 | 4 |

| OPEL CODE | b | d2 | l | s |
|---|---|---|---|---|
| F33030058 | 40 | 19 | 60 | 6 |
| F33030059 | 40 | 22,5 | 60 | 2 |
| F33030060 | 40 | 22,5 | 60 | 4 |
| F33030061 | 40 | 22,5 | 60 | 6 |
| F33030062 | 60 | 28,5 | 80 | 2 |
| F33030063 | 60 | 28,5 | 80 | 4 |
| F33030064 | 60 | 28,5 | 80 | 6 |
| F33030065 | 60 | 37,5 | 80 | 2 |
| F33030066 | 60 | 37,5 | 80 | 4 |
| F33030067 | 60 | 37,5 | 80 | 6 |
| F33030068 | 60 | 42,5 | 80 | 2 |
| F33030069 | 60 | 42,5 | 80 | 4 |
| F33030070 | 60 | 42,5 | 80 | 6 |

# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357




FORM A

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK





FORM B



FORM C



FORM D

ORDER EXAMPLE

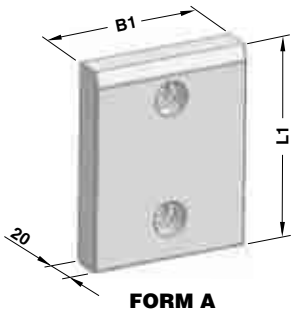
| OPEL CODE |
|---|
| F33040001 |

* Not in accordance with VDI3357
Nicht mit Entspricht VDI3357
Non conforme alla norma VDI3357

| OPEL CODE | B1 | L1 | FORM |
|---|---|---|---|
| F33040000 | 50 | 100 | A |
| F33040001 | 50 | 125 | A |
| F33040002 | 50 | 160 | A |
| F33040003 | 50 | 200 | A |
| F33040004 | 80 | 100 | A |
| F33040005 | 80 | 125 | A |
| F33040006 | 80 | 160 | A |
| F33040007 | 80 | 200 | A |
| F33040008 | 100 | 50 | C |
| F33040009 | 100 | 80 | C |
| F33040010 | 100 | 100 | A |
| F33040011 | 100 | 125 | A |
| F33040012 | 100 | 160 | A |
| F33040013 | 100 | 200 | A |
| F33040014 | 125 | 80 | C |

| OPEL CODE | B1 | L1 | FORM |
|---|---|---|---|
| F33040015 | 125 | 100 | B |
| F33040016 | 125 | 125 | B |
| F33040017 | 125 | 160 | B |
| F33040018 | 160 | 100 | B |
| F33040019 | 160 | 125 | B |
| F33040020 | 160 | 160 | B |
| F33040113* | 100 | 250 | D |
| F33040114* | 125 | 200 | D |
| F33040115* | 160 | 200 | D |
| F33040116* | 160 | 250 | D |
| F33040117* | 160 | 300 | D |
| F33040118* | 200 | 200 | D |
| F33040119* | 200 | 250 | D |
| F33040120* | 200 | 300 | D |
| F33040138* | 125 | 250 | D |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357




FORM A

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK



FORM B



FORM C



FORM D

ORDER EXAMPLE

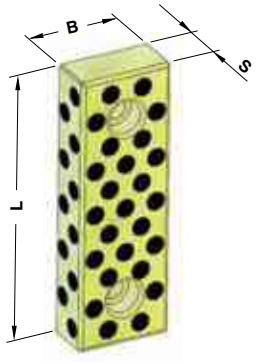
| OPEL CODE |
|---|
| F33040121 |

* Not in accordance with VDI3357
entspricht nicht VDI3357
Non conforme alla norma VDI3357

| OPEL CODE | B1 | L1 | FORM |
|---|---|---|---|
| F33040121 | 100 | 50 | C |
| F33040122 | 100 | 80 | C |
| F33040123* | 100 | 250 | D |
| F33040124 | 125 | 80 | C |
| F33040125 | 125 | 100 | B |
| F33040126 | 125 | 125 | B |
| F33040127* | 125 | 200 | D |
| F33040128* | 125 | 250 | D |
| F33040129 | 160 | 100 | B |
| F33040130 | 160 | 125 | B |
| F33040131 | 160 | 160 | B |
| F33040132* | 160 | 200 | D |
| F33040133* | 160 | 250 | D |
| F33040134* | 160 | 300 | D |
| F33040135* | 200 | 200 | D |

| OPEL CODE | B1 | L1 | FORM |
|---|---|---|---|
| F33040136* | 200 | 250 | D |
| F33040137* | 200 | 300 | D |
| F33050000 | 50 | 100 | A |
| F33050001 | 50 | 125 | A |
| F33050002 | 50 | 160 | A |
| F33050003 | 50 | 200 | A |
| F33050004 | 80 | 100 | A |
| F33050005 | 80 | 125 | A |
| F33050006 | 80 | 160 | A |
| F33050007 | 80 | 200 | A |
| F33050008 | 100 | 100 | A |
| F33050009 | 100 | 125 | A |
| F33050010 | 100 | 160 | A |
| F33050011 | 100 | 200 | A |
| F33050012 | 125 | 160 | B |

# WEAR PLATE SELF-LUBRICATING
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA AUTOLUBRIFICANTE




FORM A

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK





FORM B



FORM C



FORM D



FORM E

ORDER EXAMPLE

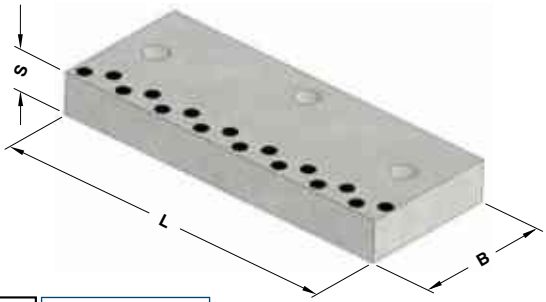
| OPEL CODE |
|---|
| F33040025 |

| OPEL CODE | B | L | S | FORM | OPEL CODE | B | L | S | FORM |
|---|---|---|---|---|---|---|---|---|---|
| F33040024 | 35 | 100 | 10 | E | F33040030 | 50 | 150 | 25 | A |
| F33040025 | 35 | 150 | 10 | E | F33040031 | 50 | 200 | 25 | A |
| F33040026 | 35 | 200 | 10 | E | F33040032 | 50 | 250 | 25 | B |
| F33040027 | 35 | 250 | 10 | E | F33040033 | 75 | 150 | 25 | C |
| F33040028 | 35 | 300 | 10 | E | F33040034 | 75 | 200 | 25 | D |
| F33040029 | 35 | 350 | 10 | E | F33040035 | 75 | 250 | 25 | D |

# F3304

OMCR

## WEAR PLATE SELF-LUBRICATING
## GLEITPLATTE MIT FESTSCHMIERSTOFF
## PIASTRA GUIDA AUTOLUBRIFICANTE




**Notes**

**Material:** CK45 + Graphite
**HRC:** 60÷62

10

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33040037 |

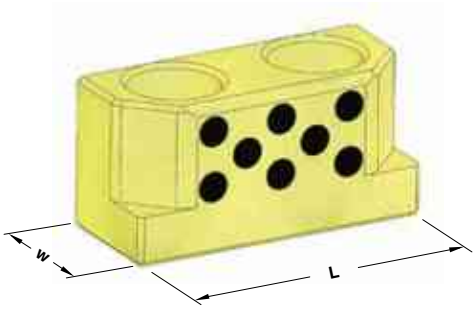
| OPEL CODE | B | L | S |
|---|---|---|---|
| F33040036 | 100 | 160 | 20 |
| F33040037 | 100 | 200 | 20 |
| F33040038 | 100 | 250 | 20 |
| F33040039 | 100 | 300 | 20 |
| F33040040 | 125 | 160 | 30 |

| OPEL CODE | B | L | S |
|---|---|---|---|
| F33040041 | 125 | 250 | 30 |
| F33040042 | 125 | 300 | 30 |
| F33040043 | 125 | 350 | 30 |
| F33040044 | 125 | 400 | 30 |

# F3304

OMCR

## CAM POSITIVE RETURN FOLLOWER
## GLEITSTÜCK
## REAZIONE GANCIO




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

10

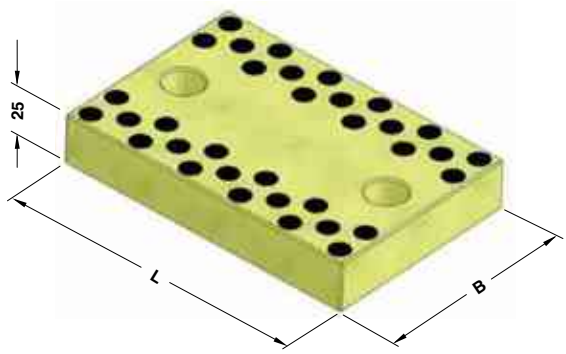
| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33040163 |

| OPEL CODE | L | W |
|---|---|---|
| F33040084 | 60 | 25 |
| F33040163 | 60 | 32 |
| F33040164 | 80 | 32 |

# F3304

OMCR

## WEAR PLATE SELF-LUBRICATING
## GLEITPLATTE MIT FESTSCHMIERSTOFF
## PIASTRA GUIDA AUTOLUBRIFICANTE




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

10

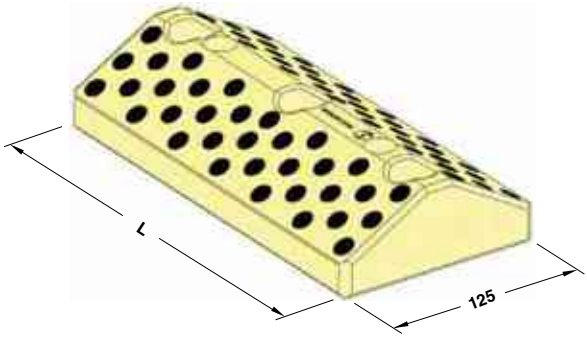
| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33040086 |

| OPEL CODE | B | L |
|---|---|---|
| F33040085 | 100 | 100 |
| F33040086 | 100 | 150 |
| F33040112 | 120 | 150 |

# F3304

OMCR

## "V" DRIVER SELF-LUBRICATING VDI 3357
## PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
## GUIDA A "V" AUTOLUBRIFICANTE VDI 3357




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33040091 |

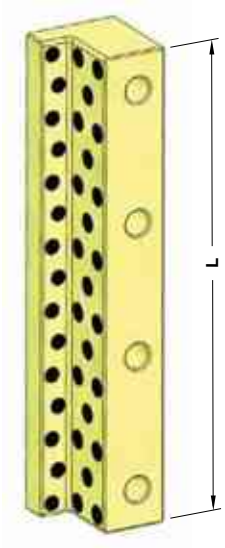
| OPEL CODE | L |
|---|---|
| F33040090 | 150 |
| F33040091 | 200 |
| F33040092 | 250 |
| F33040093 | 300 |

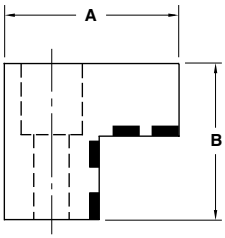
## ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

**Notes**

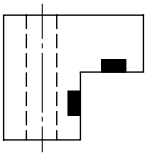
**Material:** Bronze + Graphite
**HB** > 190

STOCK

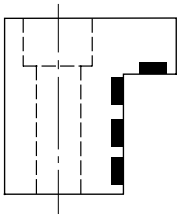



**FORM A**



**FORM B**



**FORM C**

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33040101 |

| OPEL CODE | A | B | L | FORM |
|---|---|---|---|---|
| F33040100 | 50 | 45 | 200 | A |
| F33040101 | 50 | 45 | 250 | A |
| F33040102 | 50 | 45 | 300 | A |
| F33040103 | 50 | 45 | 350 | A |
| F33040104 | 50 | 45 | 400 | A |
| F33040105 | 50 | 45 | 500 | A |

| OPEL CODE | A | B | L | FORM |
|---|---|---|---|---|
| F33040106 | 32 | 30 | 150 | B |
| F33040107 | 32 | 30 | 250 | B |
| F33040108 | 32 | 30 | 300 | B |
| F33040109 | 50 | 50 | 200 | C |
| F33040110 | 50 | 50 | 250 | C |
| F33040111 | 50 | 50 | 300 | C |

# CAM DWELL WEAR PLATE STEEL
# UBERLAUFKEILE STAHL
# CUNEO IN ACCIAIO

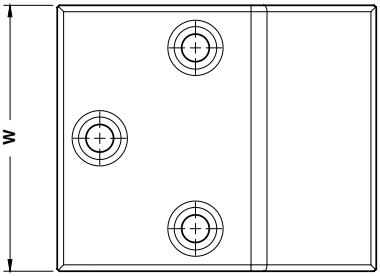


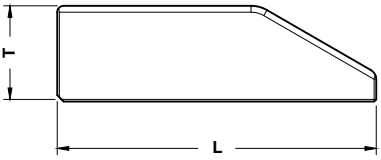
**Notes**

**Material:** 42CrMo4
**HRC:** 58÷60

STOCK





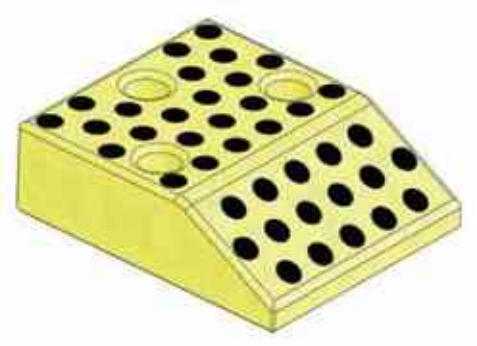




ORDER EXAMPLE

| OPEL CODE |
|---|
| F33040140 |

| OPEL CODE | L | T | W |
|---|---|---|---|
| F33040139 | 125 | 30 | 100 |
| F33040140 | 125 | 30 | 125 |
| F33040141 | 125 | 30 | 160 |
| F33040142 | 150 | 45 | 100 |
| F33040143 | 150 | 45 | 125 |
| F33040144 | 150 | 45 | 160 |
| F33040145 | 170 | 60 | 100 |
| F33040146 | 170 | 60 | 125 |
| F33040147 | 170 | 60 | 160 |

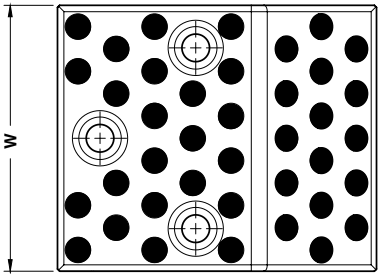
# CAM DWELL WEAR PLATE SELF-LUBRICATING
# UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
# CUNEO AUTOLUBRIFICANTE

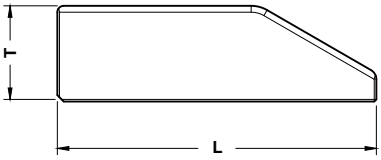


**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK



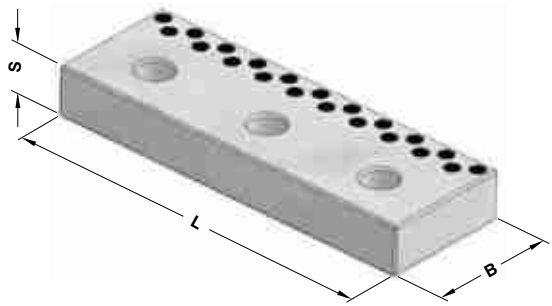




ORDER EXAMPLE

| OPEL CODE |
|---|
| F33040149 |

| OPEL CODE | L | T | W |
|---|---|---|---|
| F33040148 | 125 | 30 | 100 |
| F33040149 | 125 | 30 | 125 |
| F33040150 | 125 | 30 | 160 |
| F33040151 | 150 | 45 | 100 |
| F33040152 | 150 | 45 | 125 |
| F33040153 | 150 | 45 | 160 |
| F33040154 | 170 | 60 | 100 |
| F33040155 | 170 | 60 | 125 |
| F33040156 | 170 | 60 | 160 |

## WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA




**Notes**

**Material:** CK45 + Graphite
**HRC:** 58÷60

10

ORDER EXAMPLE

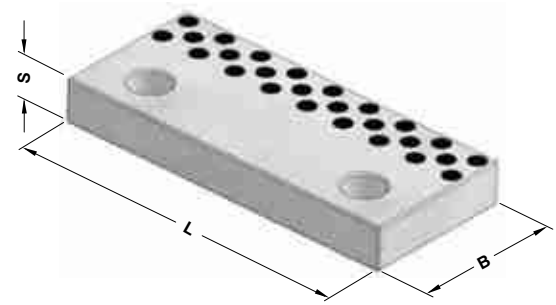
| OPEL CODE |
|---|
| F33040166 |

| OPEL CODE | B | L | S | OPEL CODE | B | L | S |
|---|---|---|---|---|---|---|---|
| F33040165 | 52 | 150 | 20 | F33040171 | 77 | 150 | 35 |
| F33040166 | 52 | 200 | 20 | F33040172 | 77 | 200 | 35 |
| F33040167 | 52 | 250 | 20 | F33040173 | 77 | 250 | 35 |
| F33040168 | 72 | 150 | 30 | F33040174 | 82 | 150 | 40 |
| F33040169 | 72 | 200 | 30 | F33040175 | 82 | 200 | 40 |
| F33040170 | 72 | 250 | 30 | F33040176 | 82 | 250 | 40 |



F3304 OMCR

## WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA




**Notes**

**Material:** CK45 + Graphite
**HRC:** 58÷60

10

ORDER EXAMPLE

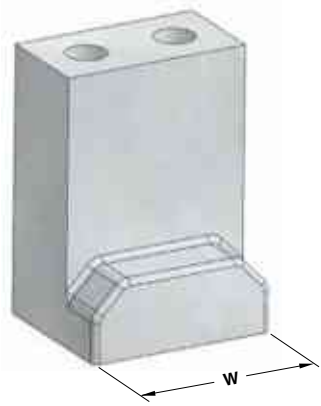
| OPEL CODE |
|---|
| F33040178 |

| OPEL CODE | B | L | S | OPEL CODE | B | L | S |
|---|---|---|---|---|---|---|---|
| F33040177 | 70 | 160 | 25 | F33040181 | 85 | 240 | 28 |
| F33040178 | 70 | 200 | 25 | F33040182 | 85 | 300 | 28 |
| F33040179 | 70 | 240 | 25 | F33040183 | 85 | 350 | 28 |
| F33040180 | 85 | 200 | 28 | | | | |

# F3304

OMCR

## POSITIVE RETURN - ZWANGSRÜCKHOLER - GANCIO




**Notes**

**Material:** C45
**HRC:** 58÷60

STOCK

ORDER EXAMPLE

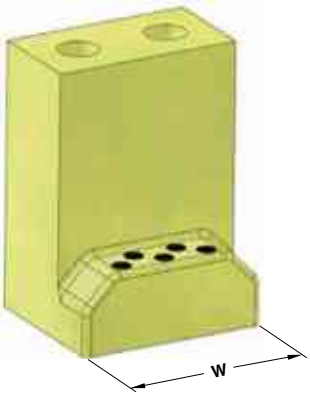
| OPEL CODE |
|---|
| F33040289 |

| OPEL CODE | W |
|---|---|
| F33040287 | 60 |
| F33040289 | 80 |


# F3304

OMCR

## POSITIVE RETURN - ZWANGSRÜCKHOLER - GANCIO


**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33040290 |

| OPEL CODE | W |
|---|---|
| F33040288 | 60 |
| F33040290 | 80 |

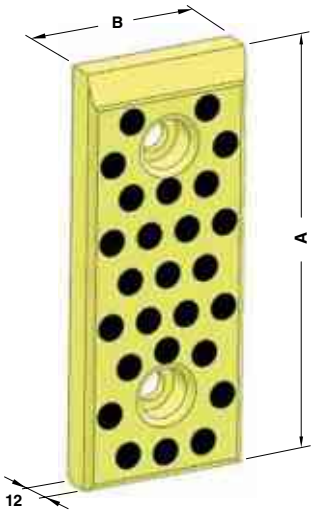
# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK





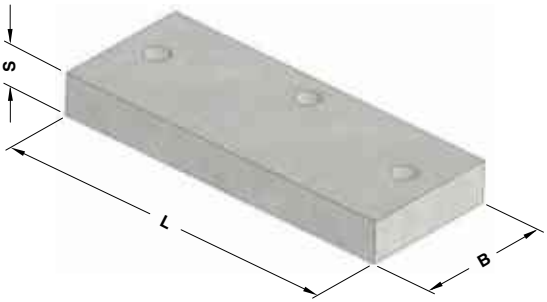

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33040306 |

| OPEL CODE | B | A | OPEL CODE | B | A |
|---|---|---|---|---|---|
| F33040305 | 30 | 80 | F33040313 | 50 | 80 |
| F33040306 | 30 | 100 | F33040314 | 50 | 100 |
| F33040307 | 30 | 125 | F33040315 | 50 | 125 |
| F33040308 | 30 | 200 | F33040316 | 50 | 200 |
| F33040309 | 40 | 80 | F33040317 | 60 | 80 |
| F33040310 | 40 | 100 | F33040318 | 60 | 100 |
| F33040311 | 40 | 125 | F33040319 | 60 | 125 |
| F33040312 | 40 | 200 | F33040320 | 60 | 200 |

# F3305

OMCR

## WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA




**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

10

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33050019 |

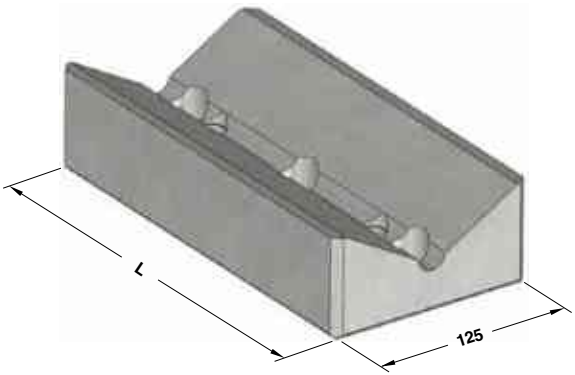
| OPEL CODE | B | L | S |
|---|---|---|---|
| F33050018 | 100 | 160 | 20 |
| F33050019 | 100 | 200 | 20 |
| F33050020 | 100 | 250 | 20 |
| F33050021 | 100 | 300 | 20 |
| F33050022 | 125 | 160 | 30 |

| OPEL CODE | B | L | S |
|---|---|---|---|
| F33050023 | 125 | 250 | 30 |
| F33050024 | 125 | 300 | 30 |
| F33050025 | 125 | 350 | 30 |
| F33050026 | 125 | 400 | 30 |

# F3305

OMCR

## "V" DRIVER STEEL VDI 3357
## PRISMENFÜHRUNG STAHL VDI 3357
## GUIDA A "V" IN ACCIAIO VDI 3357




**Notes**

**Material:** CK45
**HRC:** 58÷60

STOCK

ORDER EXAMPLE

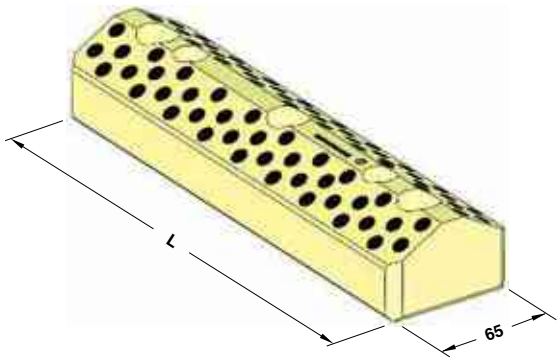
| OPEL CODE |
|---|
| F33050070 |

| OPEL CODE | L |
|---|---|
| F33050069 | 150 |
| F33050070 | 200 |
| F33050071 | 250 |
| F33050072 | 300 |

# F3305

OMCR

## "V" DRIVER SELF-LUBRICATING
## PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
## GUIDA A "V" AUTOLUBRIFICANTE




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

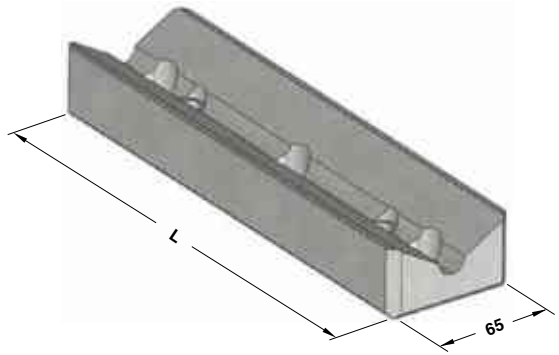
| OPEL CODE |
|---|
| F33050082 |

| OPEL CODE | L |
|---|---|
| F33050081 | 150 |
| F33050082 | 200 |
| F33050083 | 250 |

# F3305

OMCR

## "V" DRIVER STEEL - PRISMENFÜHRUNG STAHL - GUIDA A "V" IN ACCIAIO




**Notes**

**Material:** CK45
**HRC:** 58÷60

STOCK

ORDER EXAMPLE

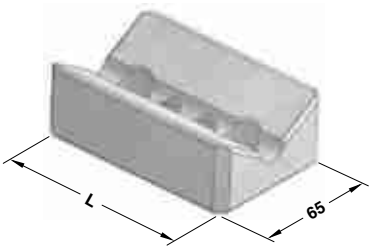
| OPEL CODE |
|---|
| F33050085 |

| OPEL CODE | L |
|---|---|
| F33050084 | 150 |
| F33050085 | 200 |
| F33050086 | 250 |

# F3305

OMCR

## "V" DRIVER STEEL - PRISMENFÜHRUNG - GUIDA A "V" IN ACCIAIO




**Notes**

**Material:** CK45
**HRC:** 58÷60

STOCK

ORDER EXAMPLE

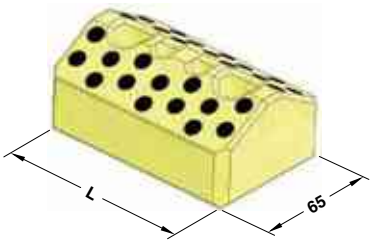
| OPEL CODE |
|---|
| F33050087 |

| OPEL CODE | L |
|---|---|
| F33050087 | 100 |

# F3305

OMCR

## "V" DRIVER SELF-LUBRICATING
## PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
## GUIDA A "V" AUTOLUBRIFICANTE




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

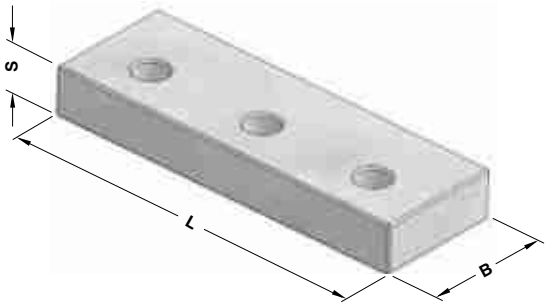
STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33050088 |

| OPEL CODE | L |
|---|---|
| F33050088 | 100 |

## WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA




**Notes**

**Material:** CK45
**HRC:** 58÷60

10

ORDER EXAMPLE

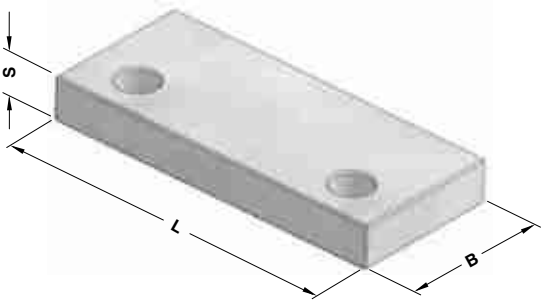
| OPEL CODE |
|---|
| F33050090 |

| OPEL CODE | B | L | S | OPEL CODE | B | L | S |
|---|---|---|---|---|---|---|---|
| F33050089 | 52 | 150 | 20 | F33050095 | 77 | 150 | 35 |
| F33050090 | 52 | 200 | 20 | F33050096 | 77 | 200 | 35 |
| F33050091 | 52 | 250 | 20 | F33050097 | 77 | 250 | 35 |
| F33050092 | 72 | 150 | 30 | F33050098 | 82 | 150 | 40 |
| F33050093 | 72 | 200 | 30 | F33050099 | 82 | 200 | 40 |
| F33050094 | 72 | 250 | 30 | F33050100 | 82 | 250 | 40 |



F3305 OMCR

## WEAR PLATE - GLEITPLATTE - PIASTRA GUIDA




**Notes**

**Material:** CK45
**HRC:** 58÷60

10

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33050102 |

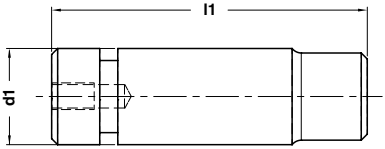
| OPEL CODE | B | L | S | OPEL CODE | B | L | S |
|---|---|---|---|---|---|---|---|
| F33050101 | 70 | 160 | 25 | F33050105 | 85 | 240 | 28 |
| F33050102 | 70 | 200 | 25 | F33050106 | 85 | 300 | 28 |
| F33050103 | 70 | 240 | 25 | F33050107 | 85 | 350 | 28 |
| F33050104 | 85 | 200 | 28 | | | | |

# F3315

OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

**Material:** 42CrMo4
900÷1000 N/mm²

STOCK

ORDER EXAMPLE

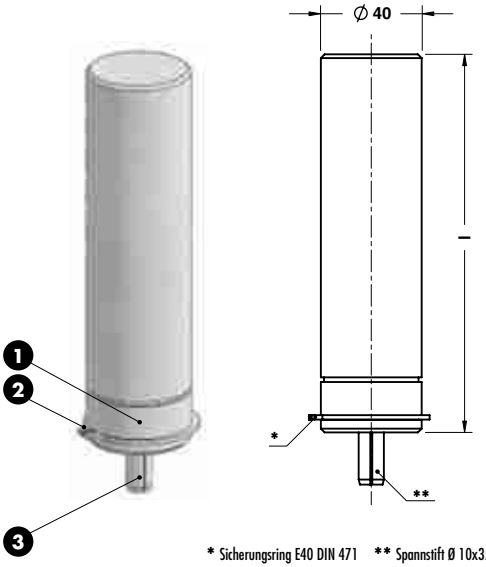
| OPEL CODE |
|---|
| F33150012 |

| OPEL CODE | d1 | l1 |
|---|---|---|
| F33150011 | 32 | 130 |
| F33150012 | 40 | 155 |
| F33150013 | 50 | 185 |
| F33150014 | 56 | 190 |
| F33150015 | 63 | 210 |

# F3315

OMCR

## AERIAL PIN - LUFTBOLZEN - CANDELA




* Sicherungsring E40 DIN 471
Anello elastico E40 DIN 471

** Spannstift Ø 10x35 DIN 8752
Spina elastica Ø 10x35 DIN 8752

**Notes**

1. **Material:** CK45
2. E Ring E40 - DIN 471
3. Elastic Pin Ø10X35 - DIN 8752

STOCK ...

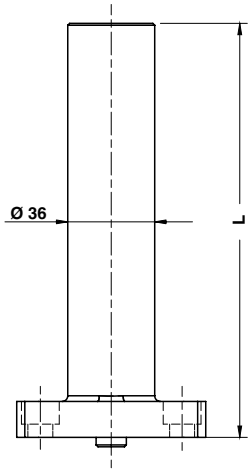
ORDER EXAMPLE

| OPEL CODE |
|---|
| F33150038 |

| OPEL CODE | l |
|---|---|
| F33150037 | 125 |
| F33150038 | 150 |
| F33150039 | 175 |
| F33150040 | 200 |
| F33150041 | 225 |
| F33150042 | 250 |
| F33150043 | 275 |
| F33150044 | 300 |

## AIR PIN - DRUCKBOLZEN - CANDELA






**Notes**

**Material:** CK45
800÷1000 N/mm²

10

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33150046 |

| OPEL CODE | L |
|---|---|
| F33150045 | 150 |
| F33150046 | 175 |
| F33150047 | 200 |
| F33150048 | 225 |



## LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO




**Notes**

**Material:** 16MnCr5
**HRC:** 56÷60

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33150061 |

| OPEL CODE | d |
|---|---|
| F33150060 | 40 |
| F33150061 | 50 |

# LIFTING PIN OPEL-GM
# TRAGBOLZEN MIT FALLRINGSICHERUNG OPEL-GM NORM
# PERNO DI SOLLEVAMENTO OPEL-GM



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

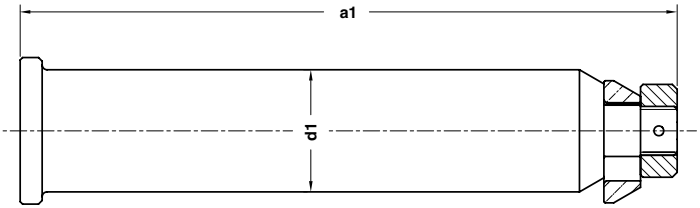
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

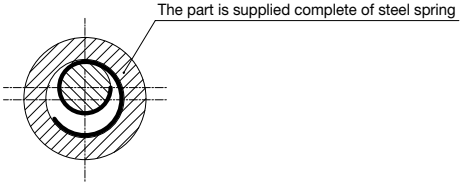
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**Notes**

**Material:** 42CrMo4 + QT

CE STOCK



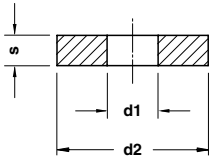

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33150088 |

| OPEL CODE | a1 | d1 | Max load (kg) | Max die weight (kg) |
|---|---|---|---|---|
| **F33150087** | 177 | 32 | 3400 | 6800 |
| **F33150088** | 220 | 40 | 5650 | 11300 |
| **F33150089** | 270 | 50 | 8950 | 17900 |
| **F33150090** | 342 | 63 | 14350 | 28700 |
| **F33150091** | 387 | 80 | 26700 | 53400 |

## FIXING PLATE - BEFESTIGUNGSPLATTE - PIASTRA DI FISSAGGIO






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33160107 |

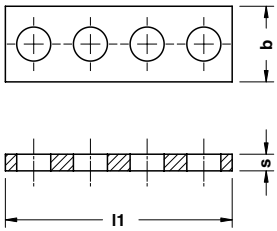
| OPEL CODE | d1 | d2 | s |
|---|---|---|---|
| F33160106 | 21 | 70 | 10 |
| F33160107 | 25 | 80 | 15 |



F3316 OMCR

## DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE






**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33160109 |

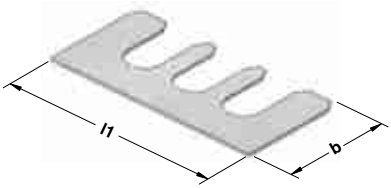
| OPEL CODE | b | l1 | s |
|---|---|---|---|
| F33160108 | 20 | 60 | 4,4 |
| F33160109 | 20 | 60 | 4,6 |
| F33160110 | 20 | 60 | 4,8 |
| F33160111 | 20 | 60 | 5,0 |
| F33160112 | 20 | 60 | 5,2 |
| F33160113 | 20 | 60 | 5,4 |
| F33160114 | 20 | 60 | 5,6 |
| F33160115 | 16 | 65 | 4,4 |
| F33160116 | 16 | 65 | 4,6 |
| F33160117 | 16 | 65 | 4,8 |
| F33160118 | 16 | 65 | 5,0 |
| F33160119 | 16 | 65 | 5,2 |
| F33160120 | 16 | 65 | 5,4 |
| F33160121 | 16 | 65 | 5,6 |

| OPEL CODE | b | l1 | s |
|---|---|---|---|
| F33160122 | 12,5 | 42 | 4,4 |
| F33160123 | 12,5 | 42 | 4,6 |
| F33160124 | 12,5 | 42 | 4,8 |
| F33160125 | 12,5 | 42 | 5,0 |
| F33160126 | 12,5 | 42 | 5,2 |
| F33160127 | 12,5 | 42 | 5,4 |
| F33160128 | 12,5 | 42 | 5,6 |
| F33160199 | 12,5 | 42 | 5,8 |
| F33160200 | 12,5 | 42 | 7,8 |
| F33160201 | 16 | 65 | 5,8 |
| F33160202 | 16 | 65 | 7,8 |
| F33160203 | 20 | 60 | 5,8 |
| F33160204 | 20 | 60 | 7,8 |

## SHIM PLATE - AUSGLEICHBLECHE - PIASTRA DI SPESSORAMENTO

| Notes |
| --- |
| **Material:** St37 |

STOCK




**FORM A**




**FORM B**



**FORM C**



**FORM D**

ORDER EXAMPLE

| OPEL CODE |
| --- |
| F33160158 |

| OPEL CODE | b | l1 | s | FORM | OPEL CODE | b | l1 | s | FORM |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| F33160157 | 20 | 60 | 0,5 | C | F33160169 | 15 | 40 | 0,5 | A |
| F33160158 | 20 | 60 | 1 | C | F33160170 | 15 | 40 | 1 | A |
| F33160159 | 20 | 60 | 2 | C | F33160171 | 15 | 40 | 2 | A |
| F33160160 | 20 | 45 | 0,5 | A | F33160172 | 20 | 52 | 0,5 | A |
| F33160161 | 20 | 45 | 1 | A | F33160173 | 20 | 52 | 1 | A |
| F33160162 | 20 | 45 | 2 | A | F33160174 | 20 | 52 | 2 | A |
| F33160163 | 15 | 45 | 0,5 | A | F33160183 | 12,4 | 42 | 0,5 | B |
| F33160164 | 15 | 45 | 1 | A | F33160184 | 12,4 | 42 | 1 | B |
| F33160165 | 15 | 45 | 2 | A | F33160185 | 12,4 | 42 | 2 | B |
| F33160166 | 20 | 40 | 0,5 | A | F33160186 | 15,8 | 65 | 0,5 | D |
| F33160167 | 20 | 40 | 1 | A | F33160187 | 15,8 | 65 | 1 | D |
| F33160168 | 20 | 40 | 2 | A | F33160188 | 15,8 | 65 | 2 | D |

# F3316

OMCR

## FASTENING PLATES - HALTEPLATTE - PIASTRE DI RITEGNO



| Notes |
|---|
| **Material:** St37 |

STOCK

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33160218 |

| OPEL CODE |
|---|
| F33160218 |

# F3316

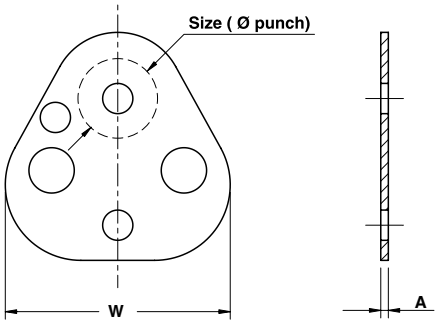
OMCR

## SHIM PUNCH RETAINER - DRUCKPLATTE - SPESSORE PER PORTAPUNZONE



| Notes |
|---|
| **Material:** C20 |

STOCK




| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33160231 |

| OPEL CODE | A | W | Size |
|---|---|---|---|
| F33160230 | 2 | 43,7 | 10 |
| F33160231 | 4 | 43,7 | 10 |
| F33160232 | 6 | 43,7 | 10 |
| F33160233 | 2 | 50,0 | 13 |
| F33160234 | 4 | 50,0 | 13 |
| F33160235 | 6 | 50,0 | 13 |
| F33160236 | 2 | 53,2 | 16 |

| OPEL CODE | A | W | Size |
|---|---|---|---|
| F33160237 | 4 | 53,2 | 16 |
| F33160238 | 6 | 53,2 | 16 |
| F33160239 | 2 | 59,5 | 20 |
| F33160240 | 4 | 59,5 | 20 |
| F33160241 | 6 | 59,5 | 20 |
| F33160242 | 2 | 69,1 | 25 |
| F33160243 | 4 | 69,1 | 25 |

| OPEL CODE | A | W | Size |
|---|---|---|---|
| F33160244 | 6 | 69,1 | 25 |
| F33160245 | 2 | 69,1 | 32 |
| F33160246 | 4 | 69,1 | 32 |
| F33160247 | 6 | 69,1 | 32 |
| F33160248 | 2 | 76,7 | 40 |
| F33160249 | 4 | 76,7 | 40 |
| F33160250 | 6 | 76,7 | 40 |

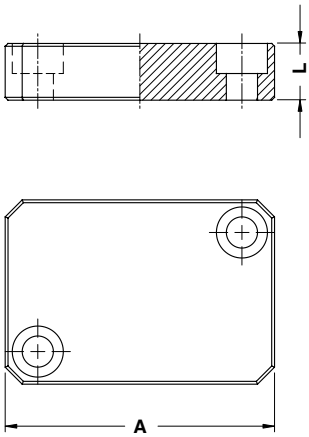
## STRIKER PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷63

STOCK






ORDER EXAMPLE

| OPEL CODE |
|---|
| F33160227 |

| OPEL CODE | A | L | OPEL CODE | A | L | OPEL CODE | A | L | OPEL CODE | A | L | OPEL CODE | A | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F33160226 | 50 | 20 | F33160277 | 80 | 23 | F33160286 | 95 | 35 | F33160327 | 80 | 22 | F33160336 | 130 | 20 |
| F33160227 | 80 | 20 | F33160278 | 80 | 26 | F33160287 | 110 | 23 | F33160328 | 80 | 24 | F33160337 | 130 | 22 |
| F33160228 | 95 | 20 | F33160279 | 80 | 29 | F33160288 | 110 | 26 | F33160329 | 80 | 28 | F33160338 | 130 | 23 |
| F33160229 | 110 | 20 | F33160280 | 80 | 32 | F33160289 | 110 | 29 | F33160330 | 95 | 22 | F33160339 | 130 | 24 |
| F33160272 | 50 | 23 | F33160281 | 80 | 35 | F33160290 | 110 | 32 | F33160331 | 95 | 24 | F33160340 | 130 | 26 |
| F33160273 | 50 | 26 | F33160282 | 95 | 23 | F33160291 | 110 | 35 | F33160332 | 95 | 28 | F33160341 | 130 | 28 |
| F33160274 | 50 | 29 | F33160283 | 95 | 26 | F33160324 | 50 | 22 | F33160333 | 110 | 22 | F33160342 | 130 | 29 |
| F33160275 | 50 | 32 | F33160284 | 95 | 29 | F33160325 | 50 | 24 | F33160334 | 110 | 24 | F33160343 | 130 | 32 |
| F33160276 | 50 | 35 | F33160285 | 95 | 32 | F33160326 | 50 | 28 | F33160335 | 110 | 28 | F33160344 | 130 | 35 |

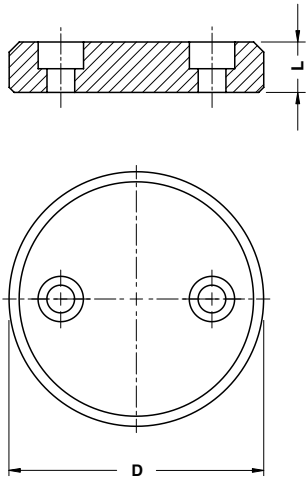
## STRIKER PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO

**Notes**

**Material:** 42CrMo4
**HRC:** 48÷55

STOCK








ORDER EXAMPLE

| OPEL CODE |
|---|
| F33160346 |

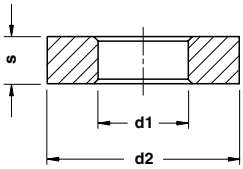
| OPEL CODE | D | L |
|---|---|---|
| F33160345 | 63 | 20 |
| F33160346 | 63 | 22 |
| F33160347 | 63 | 23 |
| F33160348 | 63 | 24 |
| F33160349 | 63 | 26 |
| F33160350 | 63 | 28 |
| F33160351 | 63 | 29 |
| F33160352 | 63 | 32 |
| F33160353 | 63 | 35 |

| OPEL CODE | D | L |
|---|---|---|
| F33160354 | 101 | 20 |
| F33160355 | 101 | 22 |
| F33160356 | 101 | 23 |
| F33160357 | 101 | 24 |
| F33160358 | 101 | 26 |
| F33160359 | 101 | 28 |
| F33160360 | 101 | 29 |
| F33160361 | 101 | 32 |
| F33160362 | 101 | 35 |

| OPEL CODE | D | L |
|---|---|---|
| F33160363 | 133 | 20 |
| F33160364 | 133 | 22 |
| F33160365 | 133 | 23 |
| F33160366 | 133 | 24 |
| F33160367 | 133 | 26 |
| F33160368 | 133 | 28 |
| F33160369 | 133 | 29 |
| F33160370 | 133 | 32 |
| F33160371 | 133 | 35 |

## WASHER - SCHEIBE - RONDELLA






**Notes**

**Material:** CK45

STOCK

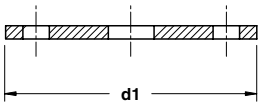
| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33180008 |

| OPEL CODE | d1 | d2 | s |
|---|---|---|---|
| F33180007 | 6 | 16 | 3.5 |
| F33180008 | 12 | 24.5 | 5 |
| F33180009 | 16 | 32 | 6.5 |
| F33180010 | 20 | 40 | 8 |
| F33180011 | 24 | 50 | 10 |
| F33180012 | 30 | 60 | 12 |

F3318 OMCR

## DISTANCE PLATE - ABSTIMMSCHEIBE - DISTANZIALE






**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33180021 |

| OPEL CODE | d1 |
|---|---|
| F33180020 | 105 |
| F33180021 | 125 |

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



FORM A

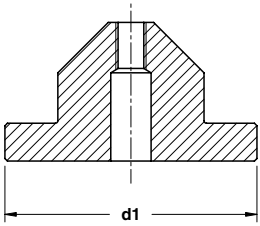


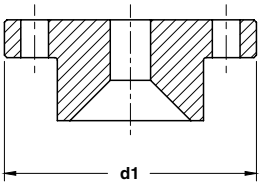
FORM B

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

STOCK




ORDER EXAMPLE

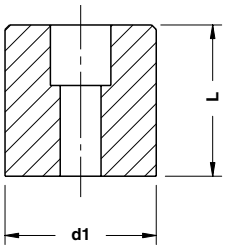
| OPEL CODE |
|---|
| F33190004 |

| OPEL CODE | d1 | FORM |
|---|---|---|
| F33190003 | 100 | B |
| F33190004 | 120 | B |
| F33190037 | 100 | A |
| F33190038 | 120 | A |



## SPACER - DISTANZSTÜCK - DISTANZIALE






**Notes**

**Material:** CK45

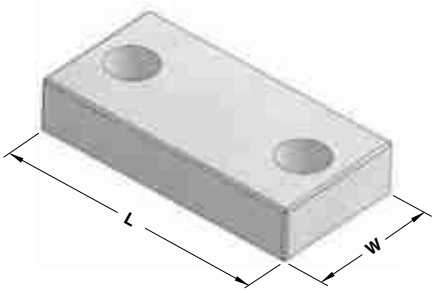
STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33190006 |

| OPEL CODE | d1 | L |
|---|---|---|
| F33190005 | 50 | 50 |
| F33190006 | 80 | 50 |
| F33190025 | 100 | 50 |
| F33190026 | 80 | 160 |

## BOTTOMING BLOCK - ABSTANDBLOCK - DISTANZIALE




| Notes |
|---|
| **Material:** CK45 |

STOCK

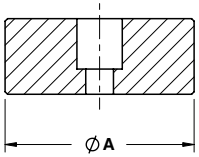
| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33190032 |

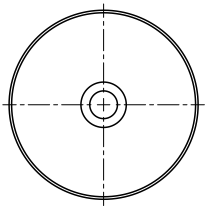
| OPEL CODE | L | W |
|---|---|---|
| F33190031 | 100 | 30 |
| F33190032 | 100 | 40 |
| F33190033 | 80 | 40 |
| F33190034 | 100 | 50 |

F3319 OMCR

## SPACER - DISTANZSTÜCK - DISTANZIALE





| Notes |
|---|
| **Material:** CK45 |

STOCK

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33190036 |

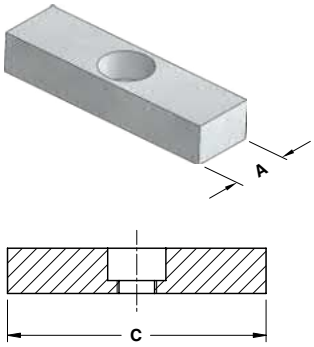
| OPEL CODE | A |
|---|---|
| F33190035 | 50 |
| F33190036 | 75 |

## KEY - PASSFEDER - CHIAVETTA

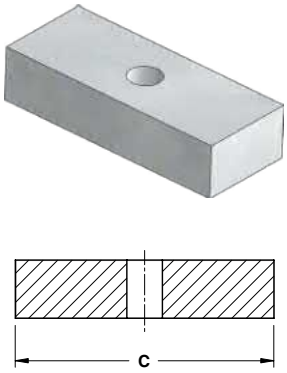
| Notes |
| --- |
| **Material:** CK45 |

STOCK






**FORM A**




**FORM B**

ORDER EXAMPLE

| OPEL CODE |
| --- |
| F33200010 |

| OPEL CODE | A | C | FORM |
| --- | --- | --- | --- |
| F33200009 | 22 | 50 | A |
| F33200010 | 22 | 80 | A |
| F33200011 | 22 | 100 | A |
| F33200017 | 20 | 80 | A |

| OPEL CODE | A | C | FORM |
| --- | --- | --- | --- |
| F33200018 | 25 | 50 | A |
| F33200019 | 25 | 80 | A |
| F33200023 | 32 | 50 | B |
| F33200024 | 32 | 80 | B |

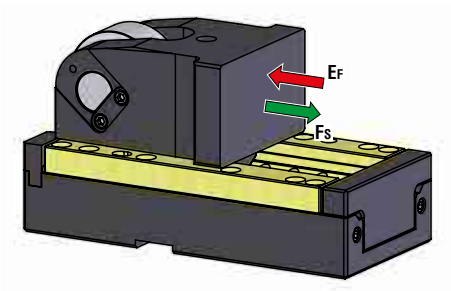
| OPEL CODE | A | C | FORM |
| --- | --- | --- | --- |
| F33200025 | 32 | 100 | B |
| F33200026 | 25 | 100 | A |
| F33200033 | 32 | 100 | A |
| | | | |

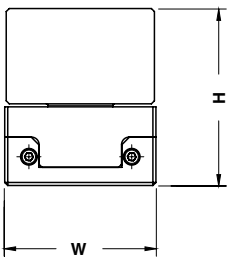
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

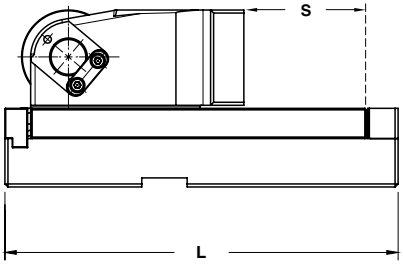
**Notes**

For technical info see pages 860÷897

STOCK WEB WEB



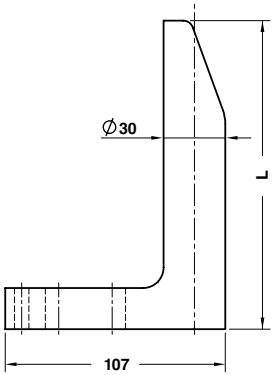

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33220333 |

| OPEL CODE | L | H | W | Stroke (mm) | Max Work Force (kN) | Extraction Force (kN) |
|---|---|---|---|---|---|---|
| | | | | S | Fs | EF |
| | | | | | | Gas Spring |
| F33220332 | 200 | 117 | 98 | 50 | 76 | 2,86 |
| F33220333 | 230 | 117 | 98 | 80 | 76 | 2,89 |
| F33220334 | 260 | 117 | 98 | 100 | 76 | 3,09 |
| F33220335 | 200 | 140 | 118 | 50 | 162 | 6,5 |
| F33220336 | 230 | 140 | 118 | 80 | 162 | 6,62 |
| F33220337 | 260 | 140 | 118 | 100 | 162 | 7,26 |
| F33220338 | 220 | 165 | 170 | 50 | 166 | 6,36 |
| F33220339 | 250 | 165 | 170 | 80 | 166 | 6,43 |
| F33220340 | 270 | 165 | 170 | 100 | 166 | 6,46 |
| F33220341 | 250 | 205 | 240 | 50 | 258 | 9,29 |
| F33220342 | 280 | 205 | 240 | 80 | 258 | 9,36 |
| F33220343 | 300 | 205 | 240 | 100 | 258 | 9,38 |

## GAGE - EINWEISER - RIFERIMENTO






**Notes**

**Material:** CK60

STOCK

ORDER EXAMPLE

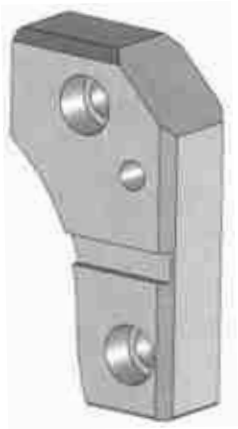
| OPEL CODE |
|---|
| F33260005 |

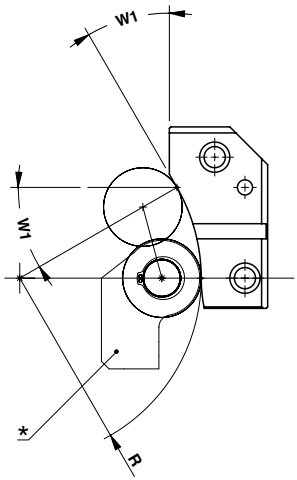
| OPEL CODE | L |
|---|---|
| F33260004 | 65 |
| F33260005 | 90 |
| F33260006 | 120 |
| F33260007 | 150 |
| F33260008 | 180 |
| F33260009 | 250 |
| F33260396 | 300 |
| F33260397 | 350 |

Standard Opel

F3326 OMCR

## ACCELERATION CAM - SCHIEBERVORBESCHLEUNIGUNG - CAMMA DI ACCELERAZIONE






* Cam roller
Rollenbock
Supporto con rullo

**Notes**

**Materials:** 90MnCrV8 - **HRC** 60÷62

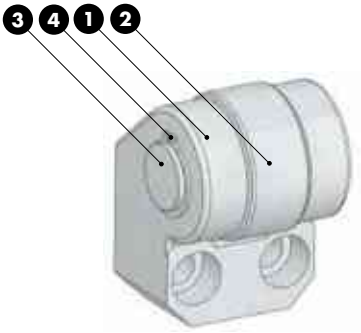
10

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33260015 |

| OPEL CODE | R | W1 |
|---|---|---|
| F33260014 | 90 | 40° |
| F33260015 | 90 | 37.5° |
| F33260016 | 100 | 37.5° |
| F33260017 | 100 | 35° |
| F33260020 | 75 | 42.5° |
| F33260021 | 75 | 45° |
| F33260022 | 75 | 47.5° |
| F33260023 | 65 | 50° |
| F33260024 | 65 | 52.5° |

## CAM ROLLER - ROLLENBOCK - SUPPORTO CON RULLO




**Notes**

1. **Material:** 42CrMo4
2. NUTR 25-52
3. **Material:** 16MnCr5
   **HRC:** 60÷62
4. E25 DIN 471

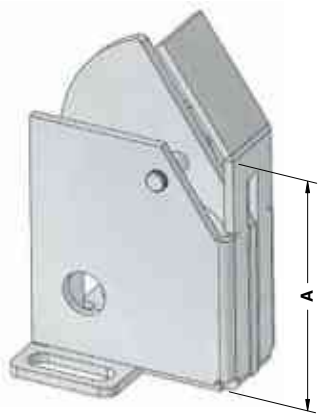
STOCK ...

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33260032 |

| OPEL CODE |
|---|
| F33260032 |

F3326 OMCR

## FRONT GAGE - EINLAUFANSCHLAG - PORTASENSORE




**Notes**

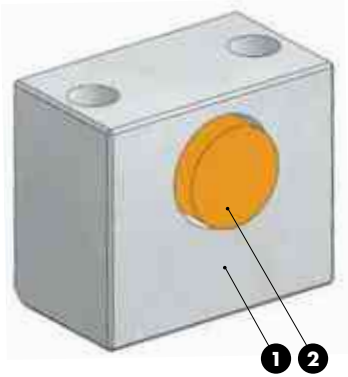
**Material:** St37

STOCK

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33260204 |

| OPEL CODE | A |
|---|---|
| F33260203 | 75 |
| F33260204 | 100 |
| F33260205 | 150 |

## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA

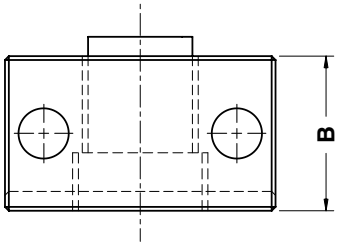


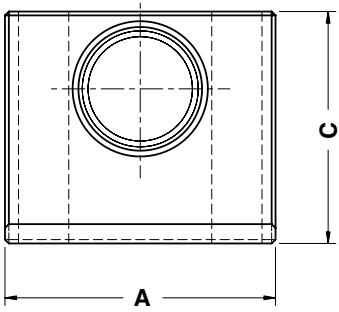

**Notes**

1. **Material:** CK45
2. **Material:** Elastomer 90 SH

STOCK ...






ORDER EXAMPLE

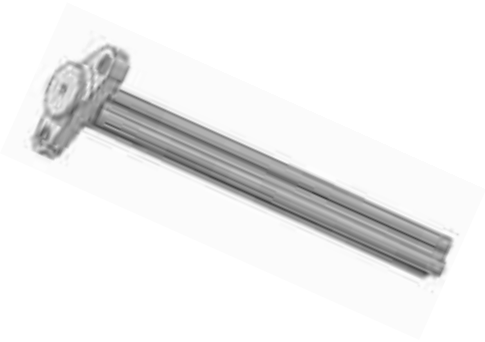
| OPEL CODE |
|---|
| F33260264 |

| OPEL CODE | A | B | C |
|---|---|---|---|
| F33260223 | 80 | 80 | 70 |
| F33260264 | 80 | 40 | 70 |
| F33260342 | 70 | 40 | 60 |

## F3329

OMCR

### STAMP RACK PILLAR - MARKIERSTEMPELKONSOLE - COLONNA PORTATIMBRI



| Notes |
| --- |
| **Material:** CK45 |

STOCK

| ORDER EXAMPLE | OPEL CODE |
| --- | --- |
| | F33290002 |

| OPEL CODE |
| --- |
| F33290002 |

## F3329

OMCR

### COUNTER-PRESSURE PLATE - GEGENDRUCKPLATTE - PIASTRINA DI REAZIONE

| Notes |
| --- |
| **Material:** St37 |

STOCK



| ORDER EXAMPLE | OPEL CODE |
| --- | --- |
| | F33290041 |

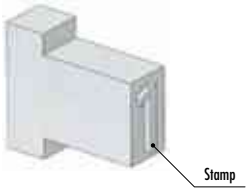
| OPEL CODE |
| --- |
| F33290041 |

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO

**Notes**

**Material:** 90MnCrV8
**HRC:** 60÷64

STOCK






ORDER EXAMPLE

| OPEL CODE |
|---|
| F33290044 |

| OPEL CODE | Stamp | OPEL CODE | Stamp | OPEL CODE | Stamp | OPEL CODE | Stamp |
|---|---|---|---|---|---|---|---|
| F33290043 | 0 | F33290052 | 9 | F33290150 | J | F33290159 | U |
| F33290044 | 1 | F33290142 | A | F33290151 | K | F33290160 | V |
| F33290045 | 2 | F33290143 | B | F33290152 | L | F33290161 | W |
| F33290046 | 3 | F33290144 | C | F33290153 | M | F33290162 | X |
| F33290047 | 4 | F33290145 | D | F33290154 | N | F33290163 | Y |
| F33290048 | 5 | F33290146 | E | F33290155 | P | F33290164 | Z |
| F33290049 | 6 | F33290147 | F | F33290156 | R | | |
| F33290050 | 7 | F33290148 | G | F33290157 | S | | |
| F33290051 | 8 | F33290149 | H | F33290158 | T | | |

F3329 OMCR

## STAMP - BUCHSTABENSTEMPEL - MARCHIO

**Notes**

**Material:** 90MnCrV8
**HRC:** 60÷64

STOCK



ORDER EXAMPLE

| OPEL CODE |
|---|
| F33290063 |

| OPEL CODE |
|---|
| F33290063 |

# F3329

OMCR

## VISUAL LOCATOR PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE



**Notes**

**Material:** X155CrVMo121KU
**HRC:** 60÷64

STOCK

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33290068 |

| OPEL CODE |
|---|
| F33290068 |

# F3331

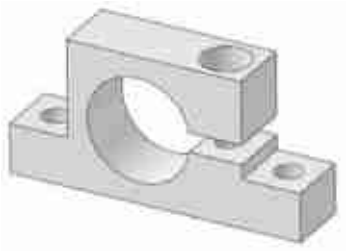
OMCR

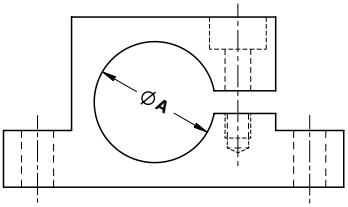
## CLAMPING FLANGE FOR GAS SPRINGS
## KLEMMFLANSCH FÜR GASDRUCKFEDERN
## SUPPORTO PER MOLLE A GAS

**Notes**

**Material:** CK45

STOCK






| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33310015 |

| OPEL CODE | A |
|---|---|
| F33310014 | 32.35 |
| F33310015 | 38.35 |
| F33310016 | 45.35 |
| F33310017 | 50.35 |
| F33310018 | 75.35 |
| F33310019 | 95.35 |
| F33310020 | 120.35 |
| F33310021 | 150.35 |
| F33310022 | 195.35 |

## URETHANE SPRING RETAINER - ELASTOMERHALTERUNG - RITEGNO PER ELASTOMERO




**Notes**

**Material:** CK25

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33310024 |

| OPEL CODE | D |
|---|---|
| F33310023 | 16 |
| F33310024 | 24 |



F3331 OMCR

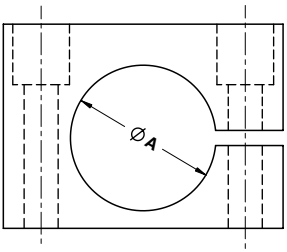
## CLAMPING FLANGE FOR GAS SPRINGS
## KLEMMFLANSCH FÜR GASDRUCKFEDERN
## SUPPORTO PER MOLLE A GAS



**Notes**

**Material:** CK45

STOCK




ORDER EXAMPLE

| OPEL CODE |
|---|
| F33310030 |

| OPEL CODE | A |
|---|---|
| F33310029 | 32.5 |
| F33310030 | 38.5 |
| F33310031 | 45.5 |
| F33310032 | 50.5 |
| F33310033 | 75.5 |
| F33310034 | 95.5 |
| F33310035 | 120.5 |
| F33310036 | 150.5 |

## F3391

OMCR

### AIR COUPLING BRACKET - LUFTANSCHLUSSBLOCK - SUPPORTO INNESTI RAPIDI



| Notes |
| --- |
| **Material:** St37 |

STOCK

| ORDER EXAMPLE | OPEL CODE |
| --- | --- |
| | F33910001 |

| OPEL CODE |
| --- |
| F33910001 |

## F3391

OMCR

### AIR COUPLING BRACKET - LUFTANSCHLUSSBLOCK - SUPPORTO INNESTI RAPIDI



| Notes |
| --- |
| **Material:** St37 |

STOCK

| ORDER EXAMPLE | OPEL CODE |
| --- | --- |
| | F33910002 |

| OPEL CODE |
| --- |
| F33910002 |

## F3391

OMCR

### AIR COUPLING BRACKET - LUFTANSCHLUSSBLOCK - SUPPORTO INNESTI RAPIDI



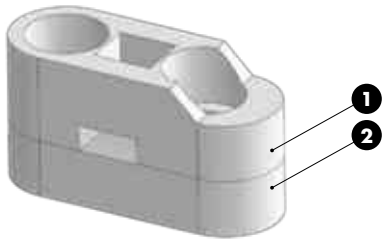
| Notes |
| --- |
| **Material:** St37 |

STOCK

| ORDER EXAMPLE | OPEL CODE |
| --- | --- |
| | F33910003 |

| OPEL CODE |
| --- |
| F33910003 |

## RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




| Notes |
|---|
| 1 F33290065 - **Material:** St37 |
| 2 F33290066 - **Material:** CK45 |

STOCK ...

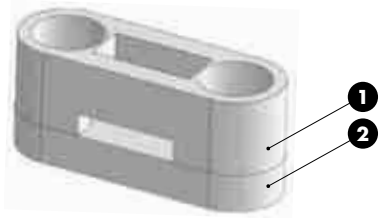


| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33910043 |

| OPEL CODE |
|---|
| F33910043 |

F3391 OMCR

RETAINER FOR STAMPS - HALTEPLATTE - PORTATIMBRI




| Notes |
|---|
| 1 F33290039 - **Material:** CK45 |
| 2 F33290040 - **Material:** CK45 |

STOCK ...

| ORDER EXAMPLE | OPEL CODE |
|---|---|
| | F33910044 |

| OPEL CODE |
|---|
| F33910044 |

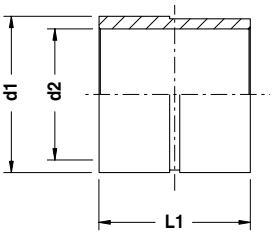
# F3391

OMCR

## BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO



FORM A






FORM B

**Notes**

**Material:** St35

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| F33910111 |

| OPEL CODE | d1 | d2 | L1 | FORM |
|---|---|---|---|---|
| F33910110 | 44 | 34 | 40 | A |
| F33910111 | 52 | 42 | 50 | A |
| F33910112 | 62 | 52 | 60 | A |
| F33910113 | 75 | 65 | 80 | A |
| F33910114 | 75 | 65 | 75 | A |
| F33910115 | 100 | 82 | 100 | B |

# J0691

OMCR

## SENSOR MOUNTING BRACKET - SENSORHALTERUNGEN - STAFFA PER SENSORE



J06910069



J06910070

**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| J06910070 |

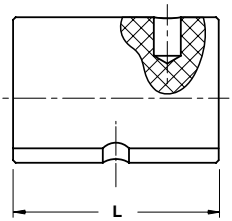
| OPEL CODE |
|---|
| J06910069 |
| J06910070 |

## M1604

OMCR

### SHOCK ABSORBER - HALTEELEMENT - AMMORTIZZATORE






**Notes**

**Material:** Polyurethane 92 SH

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| M16045183 |

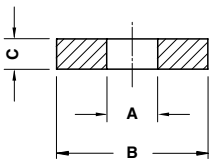
| OPEL CODE | D | L |
|---|---|---|
| M16045182 | 40 | 60 |
| M16045183 | 50 | 80 |
| M16045184 | 63 | 80 |

## M3660

OMCR

### WASHER - SCHEIBE - RONDELLA






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| OPEL CODE |
|---|
| M36600071 |

| OPEL CODE | A | B | C |
|---|---|---|---|
| M36600070 | 8,4 | 21 | 4 |
| M36600071 | 10,5 | 25 | 4 |
| M36600072 | 13 | 30 | 6 |
| M36600073 | 17 | 40 | 6 |





# Die Components
# Normalien
# Componenti

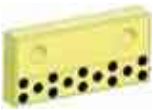
PSA GROUPE

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

| E24.51.930.G | E24.51.930.G | E24.52.105.G | E24.52.105.G | E24.52.105.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Balance block<br>Distanzstück<br>Distanziale | Stop block<br>Abstandsblock<br>Distanziale | Guide post<br>Führungssäule<br>Colonna | Anfor Clamping Flange<br>Spannflansch Afnor<br>Ritegno Per Colonna Afnor | Afnor Retaining Flange<br>Sicherungsflansch Afnor<br>Ritegno Afnor |
| 493 | 493 | 494 | 495 | 495 |

| E24.52.105.G | E24.52.105.G | E24.52.105.G | E24.52.305.G | E24.52.504.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post<br>Führungssäule<br>Colonna | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Toe clamp for bush<br>Haltestück für Buchse<br>Ritegno per boccola | Toe clamp for bush<br>Haltestück für Buchse<br>Ritegno per boccola | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 |
| 496 | 497 | 498 | 498 | 499 |

| E24.52.504.G | E24.52.504.G | E24.52.504.G | E24.52.535.G | E24.52.535.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate Afnor<br>Gleitplatte Afnor<br>Piastra guida Afnor | Wear Plate Afnor<br>Gleitplatte Afnor<br>Piastra guida Afnor | Wear plate<br>Gleitplatte<br>Piastra guida | Wear plate<br>Gleitplatte<br>Piastra guida |
| 500 | 501 | 502 | 503 | 503 |

| E24.54.410.G | E24.54.410.G | E24.54.420.G | E24.55.265.G | E24.55.265.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Elastomer spring<br>Elastomerfeder<br>Molla in elastomero | Elastomer Spring Pin<br>Aufnahmebolzen<br>Perno per molle | Elastomer cap<br>Elastomerdruckstück<br>Puntalino in elastomero | Shock absorber<br>Halteelemente<br>Ammortizzatore | Retainer pin<br>Steckbolzen<br>Perno di arresto |
| 504 | 504 | 505 | 505 | 506 |

| E24.56.200.G | E24.56.200.G | E24.56.630.G | E24.56.630.G | E24.56.630.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore | Key<br>Passfedern<br>Chiavetta | Key<br>Passfedern<br>Chiavetta | Key<br>Passfedern<br>Chiavetta |
| 506 | 507 | 508 | 509 | 509 |

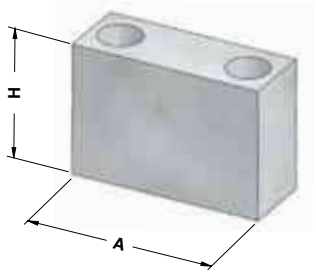
| E24.56.700.G | E24.57.370.G | E24.57.370.G | E24.57.370.G | E24.57.370.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating cone<br>Kegeldistanz<br>Cono di centraggio | Sleeve<br>Führungseinheit<br>Canotto Guida | Clamp<br>Befestigungselement<br>Morsetto | Lifting column<br>Führungssäule für Heber<br>Colonna per sollevatore | Union block<br>Befestigungselement<br>Tassello di unione |
| 510 | 510 | 511 | 511 | 512 |

| E24.57.370.G | E24.61.100.G | E24.61.100.G | E24.64.100.G | E24.64.100.G |
|---|---|---|---|---|
|  |  |  |  |  |
| Clevis<br>Gabelförmig<br>Forcella | Sensor support<br>Halterung<br>Supporto sensore | Plate<br>Gleitplatte<br>Piastra | Stamp retainer<br>Halteplatte<br>Portatimbri | Backing plate<br>Druckplatte<br>Distanziale |
| 512 | 513 | 513 | 514 | 514 |

| E24.64.100.G | E24.64.100.G | E24.64.110.G | E24.65.000.G |
|---|---|---|---|
|  |  |  |  |
| Stamp<br>Buchstabenstempel<br>Punzone marchio | Stamp<br>Buchstabenstempel<br>Punzone marchio | Stamp retainer<br>Halteplatte<br>Portatimbri | Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento |
| 515 | 515 | 516 | 517 |



## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE




**Notes**

**Material:** CK45

STOCK



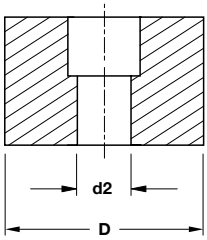
| ORDER EXAMPLE | PSA CODE |
|---|---|
| | A 699 101 804 |

| PSA CODE | A | H |
|---|---|---|
| A 699 101 605 | 80 | 55 |
| A 699 101 804 | 110 | 55 |
| J 856 750 087 | 100 | 137 |
| J 859 912 001 | 80 | 101 |

E24.51.930.G OMCR

## STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE






**Notes**

**Material:** 25CrMo4

**HRC:** 240÷300

STOCK

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | N 001 107 798 |

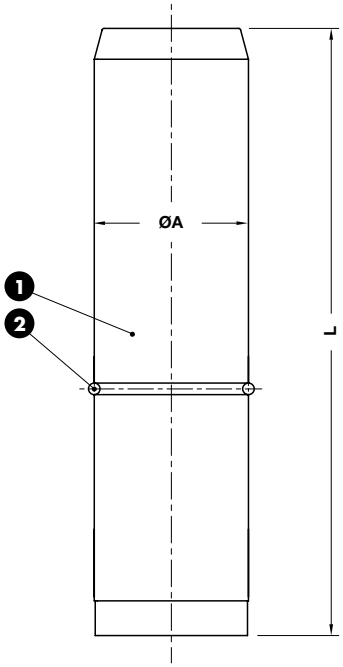
| PSA CODE | OMCR CODE | D | d2 |
|---|---|---|---|
| N 001 107 798 | A08070030M12 | 70 | 13 |
| N 001 796 935 | A08070030M08 | 70 | 9 |
| N 001 107 801 | A08040020M12 | 40 | 13 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA

**Notes**

1. **Material:** 16MnCr5 - **HRC:** 60÷62
2. **Material:** St37






| ORDER EXAMPLE | PSA CODE |
|---|---|
| | Z 000 495 749 |

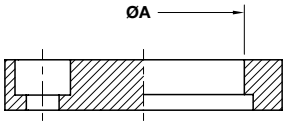
| PSA CODE | A | L | PSA CODE | A | L |
|---|---|---|---|---|---|
| Z 000 115 378 | 25 | 100 | P 446 118 170 | 50 | 220 |
| Z 000 495 749 | 25 | 125 | P 446 118 174 | 50 | 250 |
| Z 000 306 386 | 32 | 125 | P 446 118 101 | 50 | 280 |
| Z 000 325 846 | 32 | 220 | P 446 118 701 | 63 | 250 |
| P 446 117 470 | 40 | 180 | P 446 118 702 | 63 | 315 |
| P 446 117 401 | 40 | 200 | P 446 119 200 | 80 | 315 |
| P 446 117 476 | 40 | 220 | P 446 119 270 | 80 | 355 |

# E24.52.105.G

OMCR

## AFNOR CLAMPING FLANGE - SPANNFLANSCH AFNOR - RITEGNO PER COLONNA AFNOR






**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 932 711 |

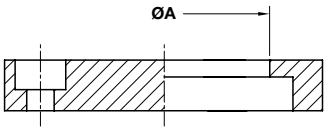
| PSA CODE | A |
|---|---|
| Z 000 248 844 | 25 |
| P 446 932 711 | 32 |
| P 446 932 701 | 40 |
| P 446 932 702 | 50 |
| P 446 932 703 | 63 |
| P 446 932 704 | 80 |

# E24.52.105.G

OMCR

## AFNOR RETAINING FLANGE - SICHERUNGSFLANSCH AFNOR - RITEGNO AFNOR






**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 932 720 |

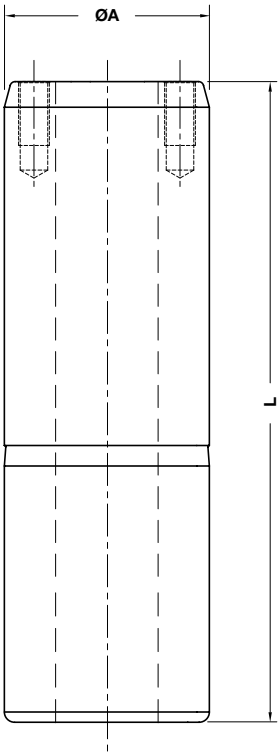
| PSA CODE | A |
|---|---|
| P 446 932 719 | 50 |
| P 446 932 720 | 60 |
| P 446 932 721 | 80 |
| P 446 932 722 | 100 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA

**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62






ORDER EXAMPLE

| PSA CODE |
|---|
| N 000 829 460 |

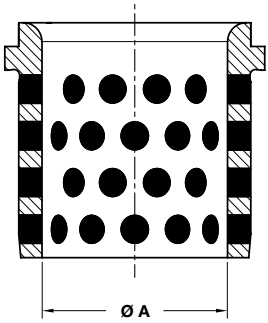
| PSA CODE | A | L | PSA CODE | A | L |
|---|---|---|---|---|---|
| N 000 622 562 | 100 | 280 | Z 000 499 647 | 100 | 355 |
| N 000 829 460 | 100 | 250 | Z 000 508 422 | 100 | 400 |
| Z 000 508 424 | 100 | 315 | | | |

## BUSH SELF-LUBRICATING - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE



| Notes |
| --- |
| **Material:** Bronze + Graphite<br>**HB** > 190 |

STOCK




| ORDER EXAMPLE | PSA CODE |
| --- | --- |
| | Z 000 499 644 |

| PSA CODE | A |
| --- | --- |
| Z 000 499 644 | 100 |

## E24.52.105.G

OMCR

### TOE CLAMP FOR BUSH - HALTESTÜCK FÜR BUCHSE - RITEGNO PER BOCCOLA

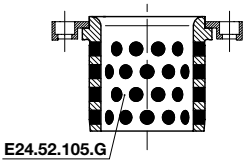


**Notes**

**Material:** CK45

STOCK

**Application example**




| ORDER EXAMPLE | PSA CODE |
|---|---|
| | Z 000 263 005 |

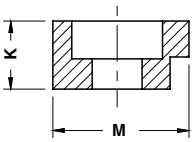
| PSA CODE |
|---|
| Z 000 263 005 |

## E24.52.305.G

OMCR

### TOE CLAMP FOR BUSH - HALTESTÜCK FÜR BUCHSE - RITEGNO PER BOCCOLA






**Notes**

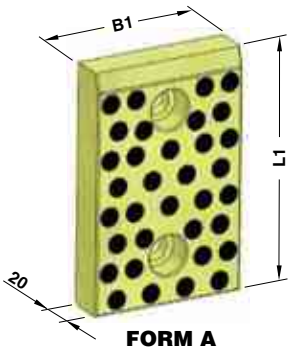
**Material:** CK45

STOCK

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 932 708 |

| PSA CODE | K | M |
|---|---|---|
| P 446 932 706 | 9 | 18 |
| P 446 932 708 | 11 | 22 |
| P 446 932 709 | 18 | 26 |

# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357




FORM A

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK



FORM B



FORM C



FORM D

ORDER EXAMPLE

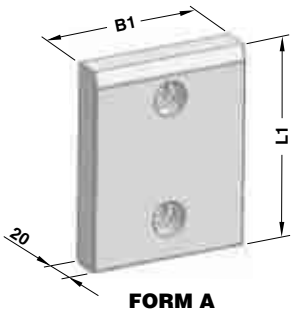
| PSA CODE |
|---|
| N 001 275 075 |

* Not in accordance with VDI3357
Nicht mit Entspricht VDI3357
Non conforme alla norma VDI3357

| PSA CODE | B1 | L1 | FORM |
|---|---|---|---|
| N 001 337 331 | 50 | 80 | A |
| N 001 275 075 | 50 | 100 | A |
| N 001 275 076 | 50 | 125 | A |
| N 001 275 095 | 50 | 160 | A |
| N 001 275 096 | 50 | 200 | A |
| N 001 334 791 | 80 | 50 | C |
| N 001 337 333 | 80 | 80 | A |
| N 001 275 115 | 80 | 100 | A |
| N 001 275 135 | 80 | 125 | A |
| N 001 275 136 | 80 | 160 | A |
| N 001 275 137 | 80 | 200 | A |
| N 001 275 138 | 100 | 50 | C |
| N 001 275 139 | 100 | 80 | C |
| N 001 275 155 | 100 | 100 | A |
| N 001 275 156 | 100 | 125 | A |

| PSA CODE | B1 | L1 | FORM |
|---|---|---|---|
| N 001 275 175 | 100 | 160 | A |
| N 001 275 176 | 100 | 200 | A |
| N 001 275 436* | 100 | 250 | D |
| N 001 275 195 | 125 | 80 | C |
| N 001 275 215 | 125 | 100 | B |
| N 001 275 235 | 125 | 125 | B |
| N 001 275 236 | 125 | 160 | B |
| N 001 275 255 | 125 | 200 | B |
| N 001 275 256 | 160 | 100 | B |
| N 001 275 257 | 160 | 125 | B |
| N 001 275 295 | 160 | 160 | B |
| N 001 275 437* | 160 | 200 | D |
| N 001 275 438* | 160 | 250 | D |
| N 001 275 439* | 160 | 300 | D |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357




FORM A

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK



FORM B



FORM C



FORM D

ORDER EXAMPLE

| PSA CODE |
|---|
| N 001 275 495 |

* Not in accordance with VDI3357
entspricht nicht VDI3357
Non conforme alla linea guida VDI3357

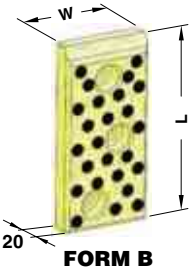
| PSA CODE | B1 | L1 | FORM |
|---|---|---|---|
| N 001 337 327 | 50 | 80 | A |
| N 001 275 495 | 50 | 100 | A |
| N 001 275 496 | 50 | 125 | A |
| N 001 275 497 | 50 | 160 | A |
| N 001 275 515 | 50 | 200 | A |
| N 001 334 794 | 80 | 50 | C |
| N 001 337 329 | 80 | 80 | A |
| N 001 275 535 | 80 | 100 | A |
| N 001 275 536 | 80 | 125 | A |
| N 001 275 537 | 80 | 160 | A |
| N 001 275 555 | 80 | 200 | A |
| N 001 275 575 | 100 | 50 | C |
| N 001 275 595 | 100 | 80 | C |
| N 001 275 615 | 100 | 100 | A |
| N 001 275 616 | 100 | 125 | A |

| PSA CODE | B1 | L1 | FORM |
|---|---|---|---|
| N 001 275 617 | 100 | 160 | A |
| N 001 275 618 | 100 | 200 | A |
| N 001 276 057* | 100 | 250 | D |
| N 001 275 635 | 125 | 80 | C |
| N 001 275 655 | 125 | 100 | B |
| N 001 275 656 | 125 | 125 | B |
| N 001 275 675 | 125 | 160 | B |
| N 001 275 676 | 125 | 200 | B |
| N 001 275 677 | 160 | 100 | B |
| N 001 275 695 | 160 | 125 | B |
| N 001 275 696 | 160 | 160 | B |
| N 001 276 058* | 160 | 200 | D |
| N 001 276 059* | 160 | 250 | D |
| N 001 275 762* | 160 | 300 | D |

# WEAR PLATE SELF-LUBRICATING AFNOR
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF AFNOR
# PIASTRA GUIDA AUTOLUBRIFICANTE AFNOR



FORM A




FORM B

**Notes**

**Material:** Bronze + Graphite
**HB** > 190
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK



FORM C



FORM E



FORM F



FORM D



FORM G



FORM H

ORDER EXAMPLE

| PSA CODE |
|---|
| Z 000 166 216 |

| PSA CODE | W | L | FORM | PSA CODE | W | L | FORM |
|---|---|---|---|---|---|---|---|
| Z 000 166 214 | 70 | 100 | A | Z 000 166 227 | 100 | 300 | F |
| Z 000 166 216 | 70 | 150 | B | Z 000 166 218 | 150 | 100 | H |
| Z 000 166 221 | 70 | 200 | C | Z 000 166 219 | 150 | 150 | D |
| Z 000 166 215 | 100 | 100 | G | Z 000 166 223 | 150 | 200 | C |
| Z 000 166 217 | 100 | 150 | D | Z 000 166 226 | 150 | 250 | E |
| Z 000 166 222 | 100 | 200 | C | Z 000 166 228 | 150 | 300 | F |
| Z 000 166 225 | 100 | 250 | E | Z 000 166 224 | 200 | 100 | H |

# WEAR PLATE STEEL AFNOR
# GLEITPLATTE STAHL AFNOR
# PIASTRA GUIDA IN ACCIAIO AFNOR



FORM A




FORM B

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK



FORM C



FORM E



FORM F



FORM D



FORM G



FORM H

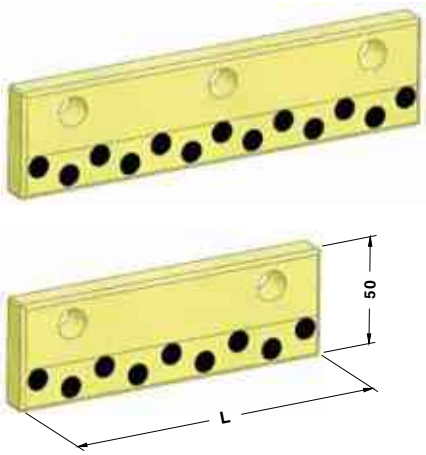
| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 626 558 |

| PSA CODE | W | L | FORM | PSA CODE | W | L | FORM |
|---|---|---|---|---|---|---|---|
| Z 000 166 213 | 70 | 100 | A | P 446 627 754 | 100 | 300 | F |
| P 446 626 558 | 70 | 150 | B | P 446 626 560 | 150 | 100 | H |
| P 446 627 059 | 70 | 200 | C | P 446 626 561 | 150 | 150 | D |
| P 446 625 855 | 100 | 100 | G | P 446 627 061 | 150 | 200 | C |
| P 446 626 559 | 100 | 150 | D | P 446 627 455 | 150 | 250 | E |
| P 446 627 060 | 100 | 200 | C | P 446 627 755 | 150 | 300 | F |
| P 446 627 454 | 100 | 250 | E | Z 000 166 220 | 200 | 100 | H |

# E24.52.535.G

OMCR

**WEAR PLATE SELF-LUBRICATING**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

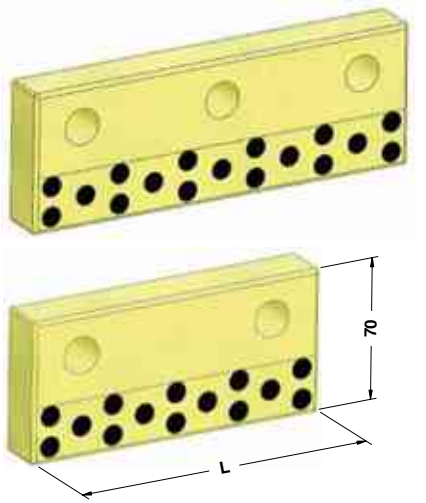
| PSA CODE |
|---|
| N 000 577 043 |

| PSA CODE | L |
|---|---|
| N 000 577 042 | 200 |
| N 000 577 043 | 150 |

# E24.52.535.G

OMCR

**WEAR PLATE SELF-LUBRICATING**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**




**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| N 000 577 047 |

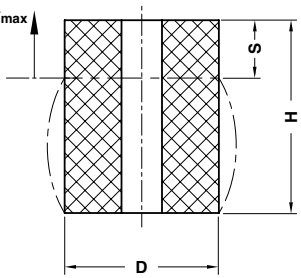
| PSA CODE | L |
|---|---|
| N 000 577 046 | 200 |
| N 000 577 047 | 150 |

# E24.54.410.G

OMCR

## ELASTOMER SPRING - ELASTOMERFEDER - MOLLA IN ELASTOMERO






S = max. 30% H

**Notes**

**Material:** Polyurethane 90 SH

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| X 346 552 171 |

| PSA CODE | D | H | Fmax (daN) |
|---|---|---|---|
| X 346 552 172 | 16 | 20 | 130 |
| X 346 552 171 | 16 | 25 | 130 |
| X 346 552 670 | 20 | 25 | 200 |
| X 346 552 671 | 20 | 32 | 200 |
| Z 000 163 267 | 25 | 20 | 300 |
| X 346 553 173 | 25 | 32 | 300 |
| Z 000 263 907 | 25 | 40 | 300 |
| Z 000 163 268 | 32 | 40 | 580 |

| PSA CODE | D | H | Fmax (daN) |
|---|---|---|---|
| Z 000 163 783 | 40 | 32 | 1250 |
| X 346 553 871 | 40 | 63 | 1250 |
| X 346 554 700 | 50 | 40 | 1700 |
| X 346 554 772 | 50 | 50 | 1700 |
| X 346 554 770 | 50 | 80 | 1700 |
| X 346 554 703 | 50 | 100 | 1700 |
| Z 000 163 269 | 63 | 40 | 2600 |
| Z 000 163 270 | 63 | 80 | 2600 |

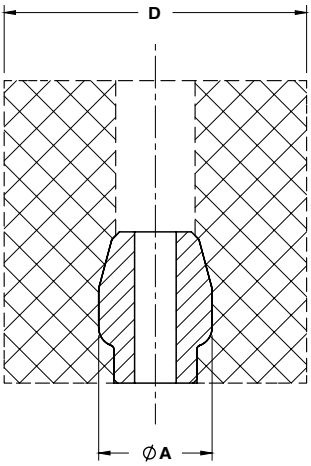
| PSA CODE | D | H | Fmax (daN) |
|---|---|---|---|
| X 346 555 572 | 80 | 80 | 4300 |
| Z 000 163 271 | 80 | 100 | 4300 |
| X 346 555 570 | 80 | 125 | 4300 |
| X 346 555 372 | 100 | 80 | 5900 |
| X 346 555 373 | 100 | 100 | 5900 |
| X 346 555 578 | 100 | 125 | 5900 |
| Z 000 163 272 | 125 | 100 | 9900 |
| X 346 556 305 | 125 | 160 | 9900 |

# E24.54.410.G

OMCR

## ELASTOMER SPRINGS PIN - AUFNAHMEBOLZEN - PERNO PER MOLLE IN ELASTOMERO






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| G 856 699 005 |

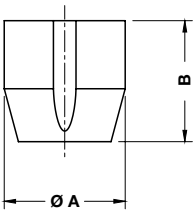
| PSA CODE | A | D |
|---|---|---|
| G 856 699 010 | 25 | 50÷63 |
| G 856 699 005 | 30 | 80÷100 |
| G 856 699 002 | 38 | 125 |

## E24.54.420.G

OMCR

### ELASTOMER CAP - ELASTOMERDRUCKSTÜCK - PUNTALINO IN ELASTOMERO






**Notes**

**Material:** Elastomer 92 SH

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| P 399 341 501 |

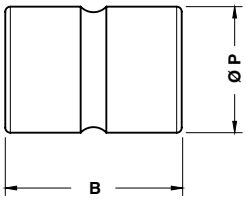
| PSA CODE | A | B |
|---|---|---|
| P 399 341 500 | 6 | 9,5 |
| P 399 341 501 | 10 | 15,5 |
| P 399 341 502 | 16 | 25 |
| P 399 341 700 | 24 | 25 |

## E24.55.265.G

OMCR

### SHOCK ABSORBER - HALTEELEMENTE - AMMORTIZZATORE






⚠

Without silicone
Ohne silicon
Senza silicone

**Notes**

**Material:** Elastomer 92 SH

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| Z 000 404 676 |

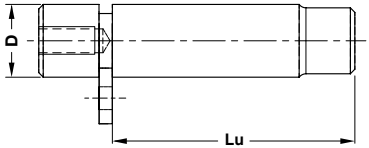
| PSA CODE | B | P |
|---|---|---|
| Z 000 404 675 | 45 | 25 |
| Z 000 404 676 | 50 | 32 |
| X 346 563 970 | 60 | 40 |
| Z 000 404 677 | 70 | 50 |
| X 346 564 970 | 80 | 63 |
| Z 000 404 678 | 90 | 80 |

# E24.55.265.G

OMCR

## RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO




**Notes**

1 2 **Material:** CK45

STOCK ...

ORDER EXAMPLE

| PSA CODE |
|---|
| Z 000 400 338 |

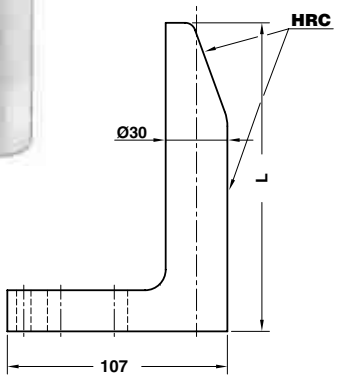
| PSA CODE | D | Lu | PSA CODE | D | Lu | PSA CODE | D | Lu |
|---|---|---|---|---|---|---|---|---|
| Z 000 400 337 | 20 | 81 | Z 000 400 342 | 32 | 148 | Z 000 400 350 | 50 | 220 |
| Z 000 400 338 | 25 | 81 | Z 000 400 345 | 40 | 132 | Z 000 400 353 | 63 | 210 |
| Z 000 400 339 | 25 | 98 | Z 000 400 346 | 40 | 192 | Z 000 400 354 | 63 | 250 |
| Z 000 400 487 | 32 | 103 | Z 000 400 349 | 50 | 165 | Z 000 424 846 | 80 | 210 |

# E24.56.200.G

OMCR

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 58÷60

STOCK

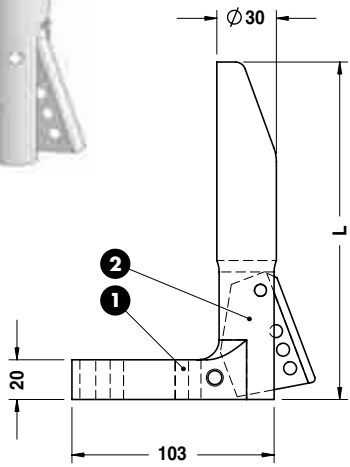
ORDER EXAMPLE

| PSA CODE |
|---|
| N 000 445 401 |

| PSA CODE | L |
|---|---|
| N 000 445 400 | 65 |
| N 000 445 401 | 90 |
| N 000 445 402 | 120 |
| N 000 445 403 | 150 |
| N 000 445 404 | 180 |
| N 000 445 405 | 250 |

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTOLLE - RIFERIMENTO PER SENSORE






**Notes**

1. **Material:** CK60
2. **Material:** St37 - **HRC:** 58÷60

STOCK ...



ORDER EXAMPLE

| PSA CODE |
|---|
| N 001 281 615 |

| PSA CODE | L |
|---|---|
| N 001 281 595 | 120 |
| N 001 281 615 | 150 |
| N 001 281 635 | 180 |
| N 001 281 655 | 250 |

## KEY - PASSFEDERN - CHIAVETTA

**Notes**

**Material:** CK45

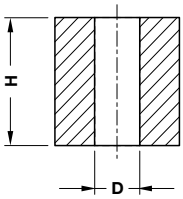
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

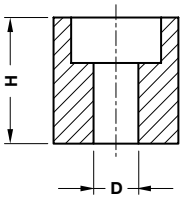




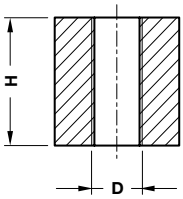



**FORM A**




**FORM B**



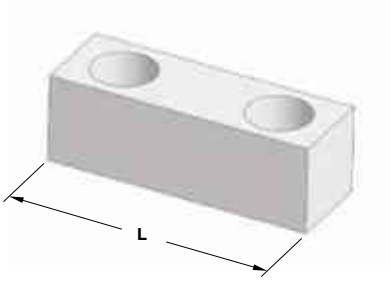

**FORM C**

ORDER EXAMPLE

| PSA CODE |
|---|
| J 859 623 008 |

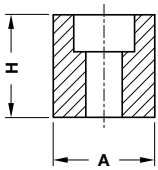
| PSA CODE | H | Nr. hole | D | FORM | PSA CODE | H | Nr. hole | D | FORM |
|---|---|---|---|---|---|---|---|---|---|
| X 548 292 170 | 20 | 1 | 9 | A | J 859 623 002 | 25 | 2 | M8 | C |
| J 859 623 008 | 25 | 1 | 9 | A | J 859 623 006 | 25 | 1 | M10 | C |
| X 548 299 870 | 32 | 2 | 11 | A | J 859 623 007 | 25 | 2 | M10 | C |
| J 859 623 003 | 25 | 1 | 9 | B | J 859 623 011 | 32 | 1 | M8 | C |
| J 859 623 004 | 25 | 2 | 9 | B | J 859 623 012 | 32 | 2 | M8 | C |
| J 859 623 013 | 32 | 1 | 9 | B | J 859 623 016 | 32 | 1 | M10 | C |
| J 859 623 014 | 32 | 2 | 9 | B | J 859 623 017 | 32 | 2 | M10 | C |
| J 859 623 001 | 25 | 1 | M8 | C | | | | | |

## KEY - PASSFEDERN - CHIAVETTA




| Notes |
|---|
| **Material:** CK45 |

STOCK




| ORDER EXAMPLE | PSA CODE |
|---|---|
| | J 859 623 008 |

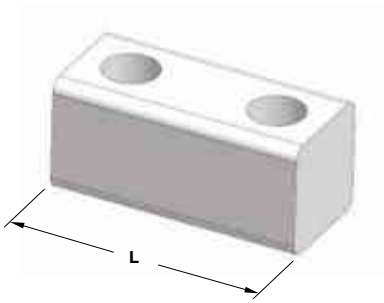
| PSA CODE | A | H | L |
|---|---|---|---|
| J 859 623 004 | 25 | 25 | 75 |
| J 859 623 014 | 32 | 32 | 75 |



E24.56.630.G

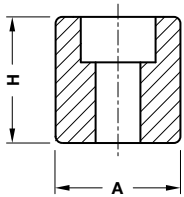
OMCR

KEY - PASSFEDERN - CHIAVETTA




| Notes |
|---|
| **Material:** 16MnCr5 - **HRC:** 60÷62 |

STOCK




| ORDER EXAMPLE | PSA CODE |
|---|---|
| | N 001 327 512 |

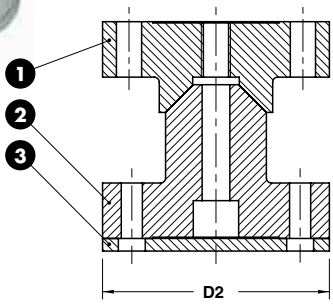
| PSA CODE | A | H | L |
|---|---|---|---|
| N 001 327 511 | 45 h6 | 45 | 100 |
| N 001 327 512 | 45 h6 | 45 | 200 |

## E24.56.700.G

OMCR

### LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO






**Notes**

1 2
**Material:** X155CrMo12 - **HRC:** 58÷60
3 **Material:** 36CrNiMo4

STOCK ...

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | Z 000 400 140 |

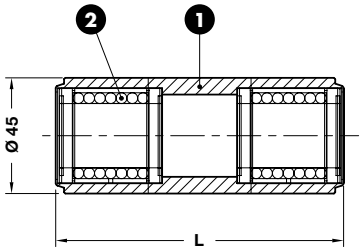
| PSA CODE | D2 |
|---|---|
| Z 000 400 139 | 90 |
| Z 000 400 140 | 110 |

## E24.57.370.G

OMCR

### SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA






**Notes**

1 **Material:** CK45
2 STAR 0658-225-40

STOCK ... ⟺

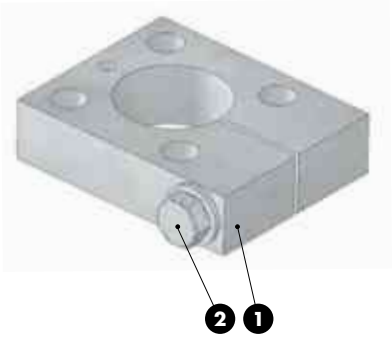
| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 905 006 |

| PSA CODE | L |
|---|---|
| P 446 905 005 | 112 |
| P 446 905 006 | 200 |

## E24.57.370.G

OMCR

### CLAMP - BEFESTIGUNGSELEMENT - MORSETTO




| Notes |
|---|
| 1 **Material:** CK45 |
| 2 M12x70 DIN 931 |

STOCK ...

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 932 718 |

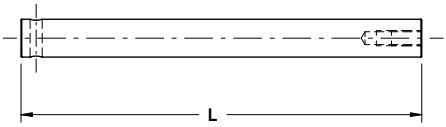
| PSA CODE |
|---|
| P 446 932 718 |

## E24.57.370.G

OMCR

### LIFTING COLUMN - FÜHRUNGSSÄULE FÜR HEBER - COLONNA PER SOLLEVATORE






| Notes |
|---|
| **Material:** 16MnCr5 - **HRC:** 60÷62 |

STOCK ⟺

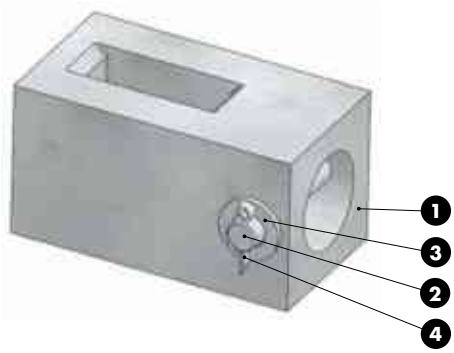
| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P446 940 701 |

| PSA CODE | L |
|---|---|
| P 446 940 700 | 265 |
| P 446 940 701 | 350 |
| P 446 940 702 | 400 |
| P 446 940 703 | 450 |
| P 446 940 704 | 500 |

## E24.57.370.G

OMCR

### UNION BLOCK - BEFESTIGUNGSELEMENT - TASSELLO DI UNIONE




**Notes**

1. **Material:** 36NiCrMo4 - **HV** > 700
2. **Material:** CK45
3. DIN 126
4. DIN 94

STOCK ...

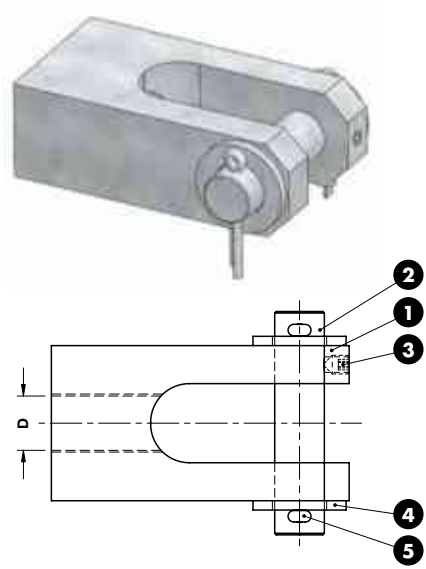
| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 446 942 700 |

| PSA CODE |
|---|
| P 446 942 700 |

## E24.57.370.G

OMCR

### CLEVIS - GABELFÖRMIG - FORCELLA




**Notes**

1 2 **Material:** CK45
3. DIN 914
4. DIN 126
5. DIN 94

STOCK ...

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | X 652 131 326 |

| PSA CODE | D |
|---|---|
| Z 000 228 984 | M16 x 1,5 |
| X 652 131 326 | M20 x 1,5 |

## SENSOR SUPPORT - HALTERUNG - SUPPORTO SENSORE




G 858 900 077-18



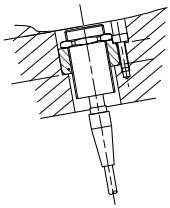

G 858 900 077-30

**Notes**

**Material:** CK45

STOCK

**Application example**



ORDER EXAMPLE

| PSA CODE |
|---|
| G 858 900 077-30 |

| PSA CODE |
|---|
| G 858 900 077-18 |
| G 858 900 077-30 |



E24.61.100.G

OMCR

## PLATE - GLEITPLATTE - PIASTRA



G 858 900 134-1



G 858 900 134-2




G 858 900 134-3

**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| G 858 900 134-2 |

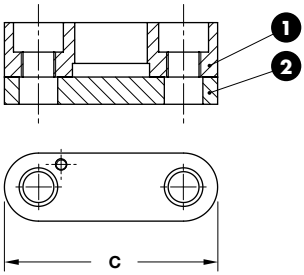
| PSA CODE | L |
|---|---|
| G 858 900 134-1 | 80 |
| G 858 900 134-2 | 120 |
| G 858 900 134-3 | 160 |

# E24.64.100.G

OMCR

## STAMP RETAINER - HALTEPLATTE - PORTATIMBRI






| Notes |
|---|
| 1 2 **Material:** CK45 |

STOCK ...

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | P 399 391 701 |

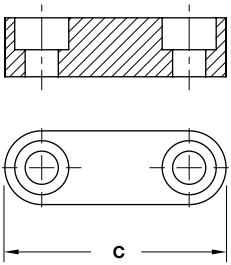
| PSA CODE | C | N° of punch |
|---|---|---|
| P 399 391 701 | 47 | 4 |
| N 000 467 867 | 55 | 6 |
| P 399 391 702 | 63 | 8 |
| P 399 391 703 | 71 | 10 |

# E24.64.100.G

OMCR

## BACKING PLATE - DRUCK PLATTE - DISTANZIALE






| Notes |
|---|
| **Material:** CK45 |

STOCK

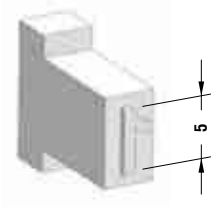
| ORDER EXAMPLE | PSA CODE |
|---|---|
| | N 000 467 866 |

| PSA CODE | C | N° of punch |
|---|---|---|
| Z 000 151 091 | 47 | 4 |
| N 000 467 866 | 56 | 6 |
| Z 000 151 092 | 63 | 8 |
| Z 000 151 093 | 71 | 10 |

# E24.64.100.G

OMCR

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO




**Notes**

**Material:** X153CrMoV12
**HRC:** 54÷56

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| P 785 150 102 |

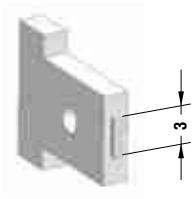
| PSA CODE | Stamp | PSA CODE | Stamp | PSA CODE | Stamp | PSA CODE | Stamp |
|---|---|---|---|---|---|---|---|
| P 785 150 002 | 0 or O | Z 000 504 318 | Dash "-" | P 785 172 104 | I | P 785 153 202 | T |
| P 785 150 102 | 1 | N 000 464 606 | Dash "_" | P 785 152 202 | J | P 785 153 302 | U |
| P 785 150 202 | 2 | P 785 151 302 | A | P 785 152 302 | K | P 785 153 402 | V |
| P 785 150 302 | 3 | P 785 151 402 | B | P 785 152 402 | L | P 785 153 502 | W |
| P 785 150 402 | 4 | P 785 151 502 | C | P 785 152 503 | M | P 785 153 602 | X |
| P 785 150 502 | 5 | P 785 151 602 | D | P 785 152 602 | N | P 785 153 702 | Y |
| P 785 150 602 | 6 or 9 | P 785 151 702 | E | P 785 152 802 | P | P 785 153 802 | Z |
| P 785 150 702 | 7 | P 785 151 802 | F | P 785 152 902 | Q | | |
| P 785 150 802 | 8 | P 785 151 902 | G | P 785 153 002 | R | | |
| P 785 289 002 | Space | P 785 152 002 | H | P 785 153 102 | S | | |



E24.64.100.G

OMCR

STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO




Notes

**Material:** X153CrMoV12
**HRC:** 54÷56

STOCK

ORDER EXAMPLE

| PSA CODE |
|---|
| Z 000 491 957 |

| PSA CODE | Stamp | PSA CODE | Stamp | PSA CODE | Stamp | PSA CODE | Stamp |
|---|---|---|---|---|---|---|---|
| Z 000 491 893 | 0 or O | Z 000 504 319 | Dash "-" | Z 000 491 973 | I | Z 000 492 024 | T |
| Z 000 491 957 | 1 | N 000 467 865 | Dash "_" | Z 000 491 974 | J | Z 000 492 025 | U |
| Z 000 491 958 | 2 | Z 000 491 965 | A | Z 000 491 975 | K | Z 000 492 026 | V |
| Z 000 491 959 | 3 | Z 000 491 966 | B | Z 000 491 976 | L | Z 000 492 027 | W |
| Z 000 491 960 | 4 | Z 000 491 967 | C | Z 000 491 977 | M | Z 000 492 028 | X |
| Z 000 491 961 | 5 | Z 000 491 968 | D | Z 000 491 978 | N | Z 000 492 029 | Y |
| Z 000 491 962 | 6 or 9 | Z 000 491 969 | E | Z 000 491 979 | P | Z 000 492 030 | Z |
| Z 000 491 963 | 7 | Z 000 491 970 | F | Z 000 491 980 | Q | | |
| Z 000 491 964 | 8 | Z 000 491 971 | G | Z 000 492 022 | R | | |
| Z 000 492 408 | Space | Z 000 491 972 | H | Z 000 492 023 | S | | |

## STAMP RETAINER - HALTEPLATTE - PORTATIMBRI




**N 001 648 906**



**N 001 162 511**

**Notes**

1. **Material:** X100CDV5-T5
   **HRC:** 56÷58
2. **Material:** XC70

10 ...

| ORDER EXAMPLE | PSA CODE |
|---|---|
| | N 001 162 511 |

| PSA CODE | Punchs |
|---|---|
| N 001 648 906 | Groupe PSA |
| N 001 162 511 | DS |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO





⚠

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

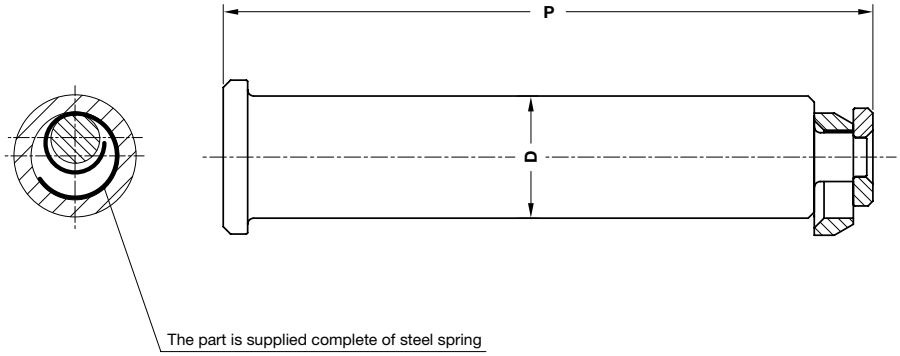
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**Notes**

**Material:** St52

CE STOCK




ORDER EXAMPLE

| PSA CODE |
|---|
| P 953 255 870 |

| PSA CODE | Max load (kg) | Max die weight (kg) | P | D |
|---|---|---|---|---|
| **P 953 254 770** | 6000 | 12000 | 154 | 32 |
| **P 953 255 870** | 9000 | 18000 | 197,75 | 40 |
| **P 953 256 670** | 14000 | 28000 | 247,50 | 50 |
| **P 953 257 470** | 22500 | 45000 | 309 | 63 |



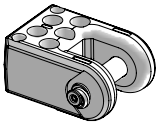


# Die Components
# Normalien
# Componenti

RENAULT

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

| EM24.50.001 | EM24.50.400 | EM24.50.400/G | EM24.50.400/G | EM24.52.100/J |
|---|---|---|---|---|
|  |  |  |  |  |
| Compliance system<br>Federeinheit<br>Gruppo molla | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento | Lifting bracket<br>Tragwange<br>Staffa di Sollevamento | Guide post<br>Führungssäule<br>Colonna |
| 522 | 523 | 524 | 525 | 526 |

| EM24.52.100/J | EM24.52.100/J | EM24.52.100/J | EM24.52.100/J | EM24.52.100/J |
|---|---|---|---|---|
|  |  |  |  |  |
| Afnor retaining ring<br>Haltering Afnor<br>Anello di tenuta Afnor | Retaining flange<br>Sicherungsflansch<br>Ritegno per colonna | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Afnor toe clamp<br>Afnor Haltestück<br>Ritegno per boccola Afnor | Toe clamp for bush<br>Haltestück für Buchse<br>Ritegno per boccola |
| 527 | 527 | 528 | 528 | 529 |

| EM24.52.100/J | EM24.52.300/C | EM24.52.300/C | EM24.52.500/B | EM24.52.500/B |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating cone<br>Kegeldistanz<br>Cono di centraggio | Wear plate Afnor<br>Gleitplatte Afnor<br>Piastra guida Afnor | Wear plate Afnor<br>Gleitplatte Afnor<br>Piastra guida Afnor | Angular guide<br>Winkelleiste<br>Guida angolare | Slider<br>Führungsleite<br>Guida |
| 529 | 530 | 531 | 532 | 532 |

| EM24.55.100/G | EM24.55.100/G | EM24.55.100/G | EM24.59.500/K | EM24.59.500/K |
|---|---|---|---|---|
|  |  |  |  |  |
| Retainer pin<br>Steckbolzen<br>Perno di arresto | Retainer pin<br>Steckbolzen<br>Perno di arresto | Shock absorber<br>Halteelemente<br>Ammortizzatore | Visual locator setting punch<br>Endkontrollstempel<br>Punzone di visualizzazione | Stamp retainer<br>Halteplatte<br>Portatimbri |
| 533 | 533 | 534 | 534 | 535 |

| EM24.59.500/K | EM24.59.500/K | EM24.59.500/K |
|---|---|---|
|  |  |  |
| Backing plate<br>Druckplatte<br>Distanziale | Stamp<br>Buchstabenstempel<br>Punzone marchio | Stamp<br>Buchstabenstempel<br>Punzone marchio |
| 535 | 536 | 536 |

## COMPLIANCE SYSTEM - FEDEREINHEIT - GRUPPO MOLLA

**Notes**

1 2 3 4 5
**Material:** 42CrMo4 + QT

6 Co-polymer **DUREL®**

7 Screw M5x16 - DIN 912

8 Nordlock

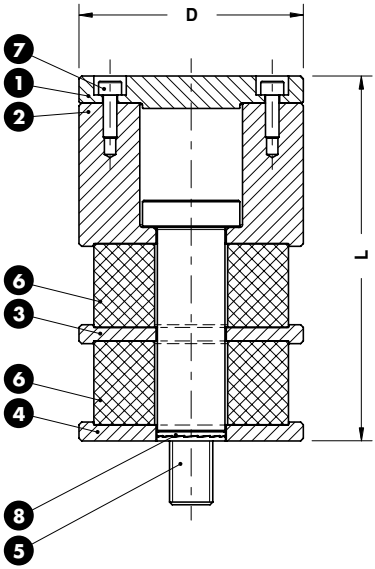
10 ...



**FORM A**



**FORM B**

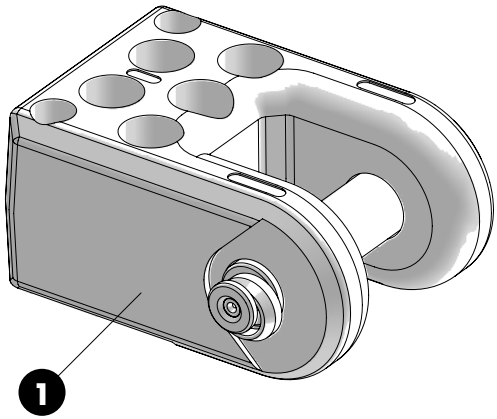


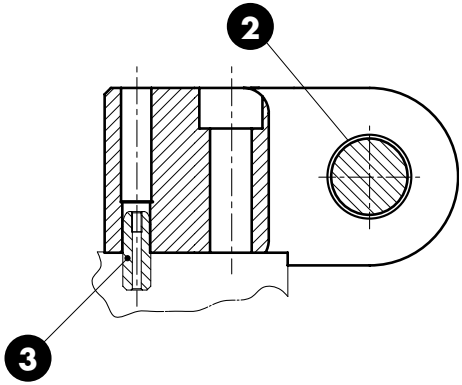

| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | R100 776 099 |

| RENAULT CODE | D | L | FORM |
|---|---|---|---|
| R100 776 100 | 83 | 125 | A |
| R100 776 099 | 83 | 135 | B |

# LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CENTRAGGI






Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)
Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)
Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. B02.30.
3. C11.20.2245 (2x)

Screws not included

STOCK

| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | R100 800 105 |

| RENAULT CODE | Max load (kg) | Max die weight (kg) |
|---|---|---|
| R100 800 105 | 8000 | 16000 |
| R100 800 108 | 12500 | 25000 |

# LIFTING PIN
# TRAGBOLZEN MIT FALLRINGSICHERUNG
# PERNO DI SOLLEVAMENTO



Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

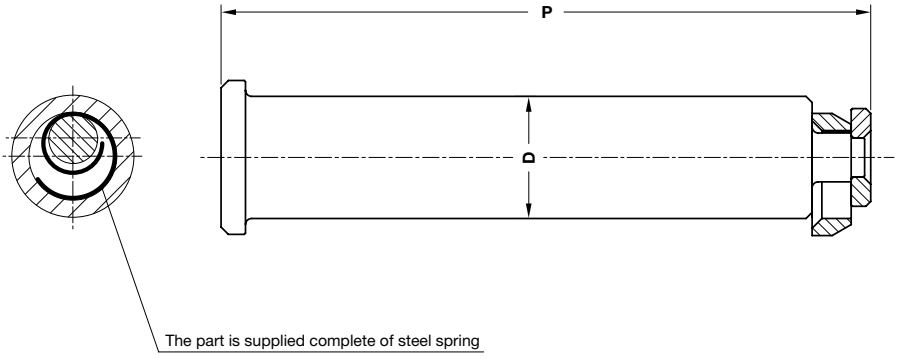
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

## Notes

**Material:** St52

CE STOCK



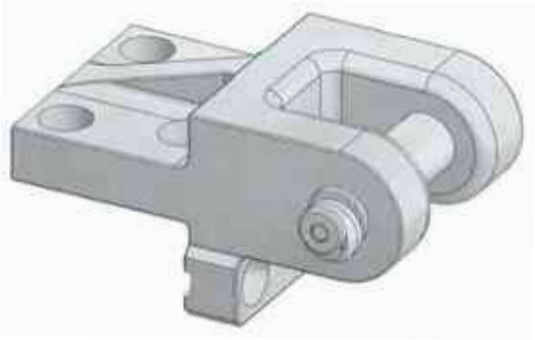

ORDER EXAMPLE

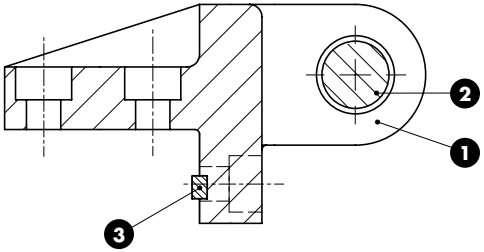
| RENAULT CODE |
|---|
| R100 609 711 |

| RENAULT CODE | Max load (kg) | Max die weight (kg) | P | D |
|---|---|---|---|---|
| **R100 609 710** | 6000 | 12000 | 154 | 32 |
| **R100 609 711** | 9000 | 18000 | 197,75 | 40 |
| **R100 448 866** | 14000 | 28000 | 247,60 | 50 |
| **R100 609 712** | 22500 | 45000 | 309 | 63 |

# LIFTING BRACKET WITH PIN AND KEYS
# TRAGWANGE MIT TRAGBOLZEN UND PASSFEDER
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CHIAVETTE








Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

**WARNING -ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwangen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** CK45 800÷1000 N/mm²
2. **Material:** St52
3. Key DIN 6885

Screws not included

CE STOCK

ORDER EXAMPLE

| RENAULT CODE |
|---|
| P953 548 070 |

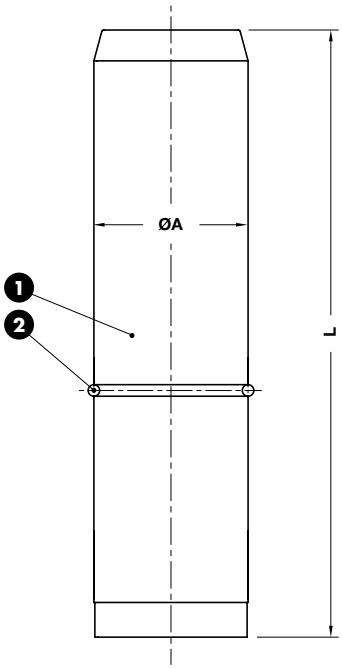
| RENAULT CODE | Max load (kg) | Max die weight (kg) |
|---|---|---|
| P953 548 270 | 4000 | 8000 |
| P953 549 070 | 6300 | 12600 |

## GUIDE POST - FÜHRUNGSSÄULE - COLONNA

**Notes**

1. **Material:** 16MnCr5 - **HRC:** 60÷62
2. EM24.52.100/J






| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | P446 116 817 |

| RENAULT CODE | A | L | RENAULT CODE | A | L |
|---|---|---|---|---|---|
| R100 018 363 | 25 | 125 | P446 118 707 | 63 | 280 |
| P446 116 817 | 32 | 140 | P446 118 702 | 63 | 315 |
| P446 116 815 | 32 | 160 | P446 119 200 | 80 | 315 |
| P446 116 816 | 32 | 200 | P446 119 201 | 80 | 355 |
| P446 118 100 | 50 | 224 | R100 221 692 | 80 | 400 |
| P446 118 101 | 50 | 280 | P446 119 800 | 100 | 400 |
| P446 118 701 | 63 | 250 | P446 119 801 | 100 | 450 |

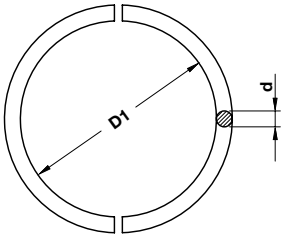
## AFNOR RETAINING RING - HALTERING AFNOR - ANELLO DI TENUTA AFNOR



**Notes**

**Material:** St37

STOCK




| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | P446 180 200 |

| RENAULT CODE | For guide post Ø | D1 | d |
|---|---|---|---|
| P446 180 200 | 25 | 22,5 | 2.5 |
| P446 180 300 | 32 | 28 | 4 |
| P446 180 400 | 40 | 36 | 4 |
| P446 180 500 | 50 | 46 | 4 |
| P446 180 600 | 63 | 57 | 6 |
| P446 180 700 | 80 | 74 | 6 |
| P446 180 800 | 100 | 94 | 6 |



EM24.52.100/J

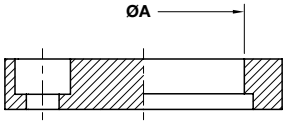
## AFNOR RETAINING FLANGE - SPANNFLANSCH AFNOR - RITEGNO PER COLONNA AFNOR



**Notes**

**Material:** CK45

STOCK




| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | P483 784 100 |

| RENAULT CODE | A |
|---|---|
| P483 784 100 | 25 |
| P483 784 600 | 32 |
| P483 795 100 | 40 |
| P483 795 401 | 50 |
| P483 795 801 | 63 |
| P483 796 001 | 80 |
| P483 796 401 | 100 |

# EM24.52.100/J

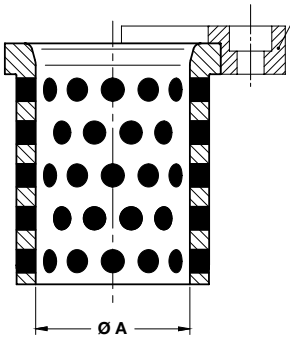
## AFNOR BUSH SELF-LUBRICATING
## AFNOR FÜHRUNGSBUCHSE
## BOCCOLA AUTOLUBRIFICANTE AFNOR



**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




ORDER EXAMPLE

| RENAULT CODE |
|---|
| M764 544 501 |

| RENAULT CODE | A |
|---|---|
| M764 539 401 | 40 |
| M764 544 501 | 50 |
| M764 549 501 | 63 |
| M764 554 601 | 80 |
| X345 298 500 | 100 |

# EM24.52.100/J

## AFNOR TOE CLAMP - AFNOR HALTESTÜCK - RITEGNO PER BOCCOLA AFNOR

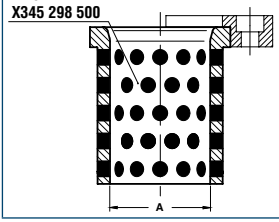


**Notes**

**Material:** CK45

STOCK

**Application example**



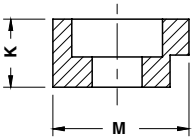

ORDER EXAMPLE

| RENAULT CODE |
|---|
| M321 534 500 |

| RENAULT CODE | A | RENAULT CODE | A |
|---|---|---|---|
| M321 534 500 | 25 | M321 556 601 | 63 |
| M321 544 501 | 32 | M321 560 601 | 80 |
| M321 548 501 | 40 | M321 562 700 | 100 |
| M321 552 601 | 50 | | |

## TOE CLAMP FOR BUSH - HALTESTÜCK FÜR BUCHSE - RITEGNO PER BOCCOLA






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| RENAULT CODE |
|---|
| R100 171 995 |

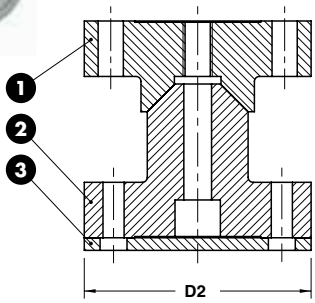
| RENAULT CODE | K | M |
|---|---|---|
| R100 171 981 | 12 | 18 |
| R100 171 995 | 16 | 22 |
| R100 171 998 | 20 | 26 |
| R100 172 000 | 25 | 26 |
| R100 172 001 | 32 | 26 |



EM24.52.100/J

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO






**Notes**

1 2
**Material:** X155CrMo12 - **HRC:** 58÷60

3 **Material:** 36CrNiMo4

STOCK ...

ORDER EXAMPLE

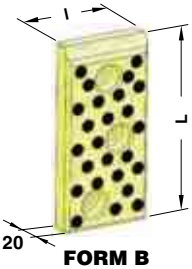
| RENAULT CODE |
|---|
| R901 138 223 |

| RENAULT CODE | D2 |
|---|---|
| R901 138 222 | 90 |
| R901 138 223 | 110 |

# WEAR PLATE SELF-LUBRICATING AFNOR
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF AFNOR
# PIASTRA GUIDA AUTOLUBRIFICANTE AFNOR



FORM A




FORM B

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK



FORM C



FORM E



FORM F



FORM D



FORM G



FORM H

ORDER EXAMPLE

| RENAULT CODE |
|---|
| R100 092 844 |

| RENAULT CODE | l | L | FORM |
|---|---|---|---|
| R100 092 843 | 70 | 100 | A |
| R100 092 844 | 70 | 150 | B |
| R100 092 845 | 70 | 200 | C |
| R100 092 846 | 100 | 100 | G |
| R100 092 883 | 100 | 150 | D |
| R100 092 884 | 100 | 200 | C |
| R100 092 885 | 100 | 250 | E |

| RENAULT CODE | l | L | FORM |
|---|---|---|---|
| R100 092 886 | 100 | 300 | F |
| R100 092 887 | 150 | 100 | H |
| R100 092 888 | 150 | 150 | D |
| R100 092 890 | 150 | 200 | C |
| R100 092 893 | 150 | 250 | E |
| R100 092 894 | 150 | 300 | F |
| R100 092 895 | 200 | 100 | H |

# WEAR PLATE STEEL AFNOR
# GLEITPLATTE STAHL AFNOR
# PIASTRA GUIDA IN ACCIAIO AFNOR



FORM A




FORM B

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK



FORM C



FORM E



FORM F



FORM D



FORM G



FORM H

| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | P446 626 558 |

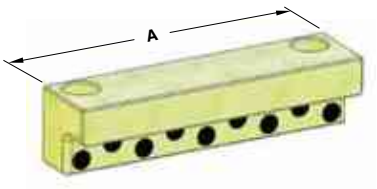
| RENAULT CODE | I | L | FORM |
|---|---|---|---|
| P446 625 854 | 70 | 100 | A |
| P446 626 558 | 70 | 150 | B |
| P446 627 059 | 70 | 200 | C |
| P446 625 855 | 100 | 100 | G |
| P446 626 559 | 100 | 150 | D |
| P446 627 060 | 100 | 200 | C |
| P446 627 454 | 100 | 250 | E |

| RENAULT CODE | I | L | FORM |
|---|---|---|---|
| P446 627 754 | 100 | 300 | F |
| P446 626 560 | 150 | 100 | H |
| P446 626 561 | 150 | 150 | D |
| P446 627 061 | 150 | 200 | C |
| P446 627 455 | 150 | 250 | E |
| P446 627 755 | 150 | 300 | F |
| P446 627 062 | 200 | 100 | H |

# EM24.52.500/B

OMCR

## ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE






**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK

ORDER EXAMPLE

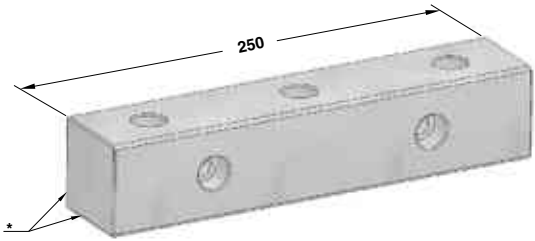
| RENAULT CODE |
|---|
| M764 523 701 |

| RENAULT CODE | A |
|---|---|
| M764 523 701 | 250 |
| M764 523 702 | 160 |

# EM24.52.500/B

OMCR

## SLIDER - FÜHRUNGSLEISTE - GUIDA




* Sides to rework during adjusting
Anpassung der Flächen zur Abstimmung
Lati da rilavorare in adattamento

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10

ORDER EXAMPLE

| RENAULT CODE |
|---|
| A07.20.50250 |

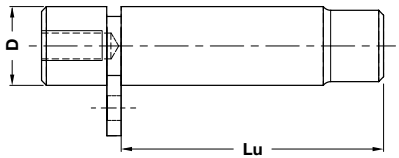
| RENAULT CODE |
|---|
| A07.20.50250 |

# EM24.55.100/G

OMCR

## RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO




| Notes |
|---|
| 1 2 **Material:** CK45 |

STOCK ...

ORDER EXAMPLE

| RENAULT CODE |
|---|
| R100 306 190 |

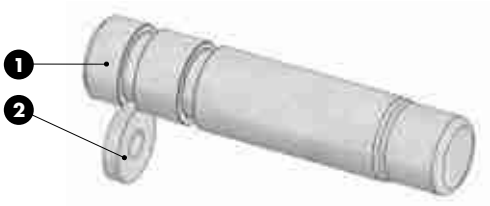
| RENAULT CODE | D | Lu | RENAULT CODE | D | Lu | RENAULT CODE | D | Lu |
|---|---|---|---|---|---|---|---|---|
| R100 306 188 | 20 | 81 | R100 306 198 | 32 | 148 | R100 306 209 | 50 | 220 |
| R100 306 190 | 25 | 81 | R100 306 201 | 40 | 132 | R100 306 210 | 63 | 210 |
| R100 306 191 | 25 | 98 | R100 306 204 | 40 | 192 | R100 306 213 | 63 | 250 |
| R100 306 194 | 32 | 103 | R100 306 207 | 50 | 165 | R100 357 232 | 80 | 210 |

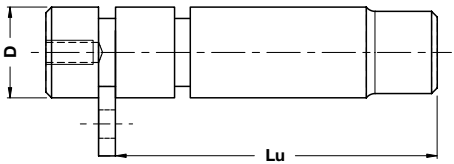



# EM24.55.100/G

OMCR

## RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO


| Notes |
|---|
| 1 2 **Material:** CK45 |

STOCK ...

ORDER EXAMPLE

| RENAULT CODE |
|---|
| R100 306 217 |

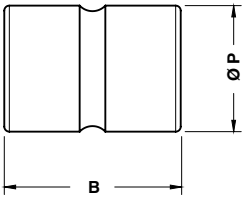
| RENAULT CODE | D | Lu | RENAULT CODE | D | Lu | RENAULT CODE | D | Lu |
|---|---|---|---|---|---|---|---|---|
| R100 306 215 | 25 | 81 | R100 306 220 | 40 | 132 | R100 306 226 | 63 | 210 |
| R100 306 217 | 25 | 98 | R100 306 221 | 40 | 192 | R100 306 227 | 63 | 250 |
| R100 306 218 | 32 | 103 | R100 306 223 | 50 | 165 | | | |
| R100 306 219 | 32 | 148 | R100 306 225 | 50 | 220 | | | |

## EM24.55.100/G

OMCR

### SHOCK ABSORBER - HALTEELEMENTE - AMMORTIZZATORE






⚠

Without silicone
Ohne silicon
Senza silicone

**Notes**

**Material:** Elastomer 92SH

STOCK

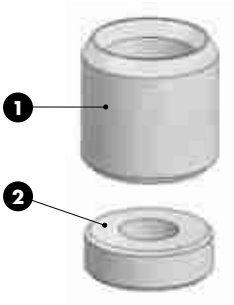
| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | X346 566 801 |

| RENAULT CODE | B | P |
|---|---|---|
| X346 566 000 | 45 | 25 |
| X346 566 801 | 50 | 32 |
| X346 567 400 | 60 | 40 |
| X346 568 100 | 70 | 50 |
| X346 568 700 | 80 | 63 |
| X346 569 201 | 90 | 80 |

## EM24.59.500/K

OMCR

### VISUAL LOCATOR SETTING PUNCH - ENDKONTROLLSTEMPEL - PUNZONE DI VISUALIZZAZIONE




**Notes**

1 **Material:** X205Cr12KU
**HRC:** 60÷62

2 **Material:** CK45

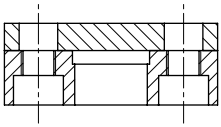
STOCK ...

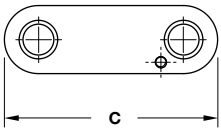
| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | P785 283 005 |

| RENAULT CODE |
|---|
| P785 283 005 |

## STAMP RETAINER - HALTEPLATTE - PORTATIMBRI






| Notes |
|---|
| 1 2 **Material:** CK45 |

STOCK ...

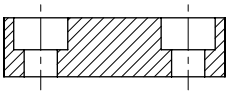
| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | R100 197 803 |

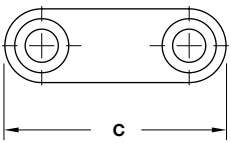
| RENAULT CODE | C | N° of punch |
|---|---|---|
| R100 050 232 | 47 | 4 |
| R100 197 803 | 55 | 6 |
| R100 050 234 | 63 | 8 |
| R100 352 214 | 71 | 10 |



## BACKING PLATE - DRUCK PLATTE - DISTANZIALE








| Notes |
|---|
| **Material:** CK45 |

STOCK

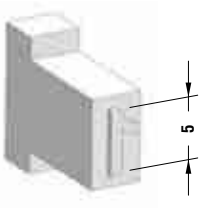
| ORDER EXAMPLE | RENAULT CODE |
|---|---|
| | R100 197 805 |

| RENAULT CODE | C | N° of punch |
|---|---|---|
| R100 050 235 | 47 | 4 |
| R100 197 805 | 56 | 6 |
| R100 050 236 | 63 | 8 |
| R100 352 230 | 71 | 10 |

# EM24.59.500/K

OMCR

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO




**Notes**

**Material:** X153CrMoV12
**HRC:** 54÷56

STOCK

ORDER EXAMPLE

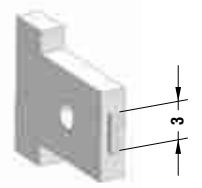
| RENAULT CODE |
|---|
| P785 150 102 |

| RENAULT CODE | Stamp | RENAULT CODE | Stamp | RENAULT CODE | Stamp | RENAULT CODE | Stamp |
|---|---|---|---|---|---|---|---|
| P785 150 002 | 0 | P785 289 002 | Spacer | P785 152 202 | J | P785 153 102 | S |
| P785 150 102 | 1 | P785 151 302 | A | P785 152 302 | K | P785 153 202 | T |
| P785 150 202 | 2 | P785 151 402 | B | P785 152 402 | L | P785 153 302 | U |
| P785 150 302 | 3 | P785 151 502 | C | P785 152 503 | M | P785 153 402 | V |
| P785 150 402 | 4 | P785 151 602 | D | P785 152 602 | N | P785 153 502 | W |
| P785 150 502 | 5 | P785 151 702 | E | P785 150 002 | O | P785 153 602 | X |
| P785 150 602 | 6 or 9 | P785 151 802 | F | P785 152 802 | P | P785 153 702 | Y |
| P785 150 702 | 7 | P785 151 902 | G | P785 152 902 | Q | P785 153 802 | Z |
| P785 150 802 | 8 | P785 152 002 | H | P785 153 002 | R | | |


# EM24.59.500/K

OMCR

## STAMP - BUCHSTABENSTEMPEL - PUNZONE MARCHIO



**Notes**

**Material:** X153CrMoV12
**HRC:** 54÷56

STOCK


ORDER EXAMPLE

| RENAULT CODE |
|---|
| P785 154 103 |

| RENAULT CODE | Stamp | RENAULT CODE | Stamp | RENAULT CODE | Stamp | RENAULT CODE | Stamp |
|---|---|---|---|---|---|---|---|
| P785 154 003 | 0 | P785 155 003 | Spacer | P785 155 308 | J | P785 140 952 | S |
| P785 154 103 | 1 | P785 155 300 | A | P785 155 309 | K | P785 140 953 | T |
| P785 154 203 | 2 | P785 155 301 | B | P785 155 310 | L | P785 140 954 | U |
| P785 154 303 | 3 | P785 155 302 | C | P785 155 311 | M | P785 140 955 | V |
| P785 154 403 | 4 | P785 155 303 | D | P785 155 312 | N | P785 140 956 | W |
| P785 154 503 | 5 | P785 155 304 | E | P785 155 313 | O | P785 140 957 | X |
| P785 154 603 | 6 or 9 | P785 155 305 | F | P785 155 314 | P | P785 140 958 | Y |
| P785 154 703 | 7 | P785 155 306 | G | P785 140 950 | Q | P785 140 959 | Z |
| P785 154 803 | 8 | P785 155 307 | H | P785 140 951 | R | | |


MCR



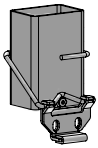


# Die Components
# Normalien
# Componenti

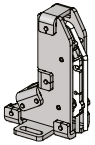
OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

| 39D 506 | 39D 528 | 39D 543 | 39D 571 | 39D 578 |
|---|---|---|---|---|
|  |  |  |  |  |
| Sleeve<br>Führungseinheit<br>Canotto Guida | Gage<br>Einweiser<br>Riferimento | Brace<br>Verlaschung<br>Bretella | Tie Rod<br>Führungsbolzen<br>Tirante | Spacing bar<br>Abstellbolzen<br>Distanziale |
| 546 | 546 | 547 | 547 | 548 |

| 39D 578 | 39D 578 | 39D 582 | 39D 592 | 39D 599 |
|---|---|---|---|---|
|  |  |  |  |  |
| Spacing bar<br>Abstellbolzen<br>Distanziale | Backing plate<br>Distanzkappe<br>Reazione per cilindro | Angular guide<br>Winkelleiste<br>Guida angolare | Spacer<br>Rückfalldistanz<br>Distanziale | Tie rod<br>Druck und Zuganker<br>Tirante |
| 549 | 551 | 552 | 553 | 554 |

| 39D 599 | 39D 599 | 39D 630 | 39D 630 | 39D 630 |
|---|---|---|---|---|
|  |  |  |  |  |
| Tie rod<br>Druck und Zuganker<br>Tirante | Tie rod<br>Druck und Zuganker<br>Tirante | Slide stop block<br>Schieberanschlag<br>Arresto slitta | Slide stop block<br>Schieberanschlag<br>Arresto slitta | Slide stop block<br>Schieberranschlag<br>Arresto slitta |
| 554 | 555 | 555 | 556 | 556 |

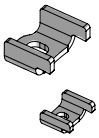
| 39D 638 | 39D 638 | 39D 639 | 39D 639 | 39D 639 |
|---|---|---|---|---|
|  |  |  |  |  |
| Air pin<br>Druckbolzen<br>Candela | Air pin<br>Druckbolzen<br>Candela | Support for sensor<br>Lagekontrolle für Platinen<br>Supporto sensore | Support for sensor<br>Lagekontrolle für Platinen<br>Supporto sensore | Gage for sensor<br>Einweiser für Teillagekontolle<br>Riferimento per sensore |
| 557 | 558 | 559 | 559 | 560 |

| 39D 649 | 39D 650 | 39D 651 | 39D 807 | 39D 807 |
|---|---|---|---|---|
|  |  |  |  |  |
| Shim<br>Spannschlitz<br>Spessore | Retainer bolt<br>Haltebolzen<br>Gruppo tirante | Polyuretan spring<br>Federblock<br>Ammortizzatore | Gage<br>Einweiser<br>Riferimento | Precision gage<br>Feineinweiser<br>Riferimento di precisione |
| 560 | 561 | 562 | 562 | 563 |

| 39D 807 | 39D 807 | 39D 826 | 39D 828 | 39D 828 |
|---|---|---|---|---|
|  |  |  |  |  |
| Gage<br>Einweiser<br>Riferimento | Gage<br>Einweiser<br>Riferimento | Key<br>Passfeder<br>Chiavetta | Pad retainer<br>Halteelement<br>Gruppo tirante | Washer<br>Scheibe<br>Rondella |
| 563 | 564 | 565 | 565 | 566 |

| 39D 828 | 39D 828 | 39D 839 | 39D 847 | 39D 847 |
|---|---|---|---|---|
|  |  |  |  |  |
| Elastomer washer<br>Dämpfungscheibe<br>Ammortizzatore | Anti-rebound pad retainer<br>Halteelement mit Dämpfung<br>Gruppo tirante antirimbalzo | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Block<br>Druckplatten für Gasdruckfedern<br>Reazione per cilindro | Block<br>Druckplatten für Gasdruckfedern<br>Reazione per cilindro |
| 566 | 567 | 568 | 569 | 569 |

| 39D 851 | 39D 851 | 39D 854 | 39D 854 | 39D 854 |
|---|---|---|---|---|
|  |  |  |  |  |
| Sliding pin<br>Führungssäule<br>Perno scorrevole | Sliding pin<br>Führungssäule<br>Perno scorrevole | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Pad retainer pin<br>Steckbolzen<br>Perno di arresto | Pad retainer pin<br>Absteckbolzen<br>Perno di arresto |
| 570 | 570 | 571 | 571 | 572 |

| 39D 855 | 39D 856 | 39D 860 | 39D 861 | 39D 861 |
|---|---|---|---|---|
|  |  |  |  |  |
| Bush<br>Dämpfungsbuchse<br>Boccola | Retainer<br>Sicherungsplatte<br>Piastrina | Bush DIN 9834<br>Buchse DIN 9834<br>Boccola DIN 9834 | Toe clamp<br>Haltestück<br>Ritegno per boccola | Toe clamp<br>Haltestück<br>Ritegno per boccola |
| 572 | 573 | 573 | 574 | 574 |

| 39D 862 | 39D 862 | 39D 863 | 39D 863 | 39D 863 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna guida DIN 9833 | Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna guida DIN 9833 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 |
| 575 | 576 | 577 | 578 | 579 |

| 39D 866 | 39D 866 | 39D 867 | 39D 869 | 39D 870 |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento | Lifting pin<br>Tragbolzen mit Fallringsicherung<br>Perno di sollevamento | Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di sollevamento | Washer<br>Scheibe<br>Rondella | Air cylinder fixing<br>Verschraubung<br>Fissaggio cilindro |
| 580 | 581 | 582 | 583 | 583 |

| 39D 872 | 39D 873 | 39D 876 | 39D 882 | 39D 887 |
|---|---|---|---|---|
|  |  |  |  |  |
| Cam roller<br>Rollenbock<br>Supporto con rullo | Acceleration cam<br>Schiebervorbeschleunigung<br>Camma di accelerazione | Lifting bracket VDI 3366<br>Tragzapfen VDI 336<br>Staffa di sollevamento VDI 336 | Air cylinder fixing<br>Ziehteilheber<br>Fissaggio cilindro | Air cylinder adapter<br>Teilheber<br>Adattatore per cilindro |
| 584 | 585 | 586 | 587 | 587 |

| 39D 887 | 39D 890 | 39D 890 | 39D 890 | 39D 892 |
|---|---|---|---|---|
|  |  |  |  |  |
| Air cylinder adapter<br>Teilheber<br>Adattatore per cilindro | Wear plate self.lubricating<br>Deckleiste bronze mit festschmierstoff<br>Piastra guida autolubrificante | Wear plate<br>Deckleiste Schieberführung<br>Piastra guida | Wear plate<br>Deckleiste Schieberführung<br>Piastra guida | Guide bar VDI 3357<br>Führungsleiste VDI 3357<br>Lardone VDI 3357 |
| 587 | 588 | 589 | 590 | 591 |

| 39D 894 | 39D 894 | 39D 895 | 39D 896 | 39D 896 |
|---|---|---|---|---|
|  |  |  |  |  |
| Cam dwell wear plate VDI 3357<br>Überlaufkeile VDI 3357<br>Cuneo VDI 3357 | Cam dwell wear plate VDI 3357<br>Überlaufkeile VDI 3357<br>Cuneo VDI 3357 | Balance block<br>Enddruckplatte<br>Distanziale di battuta | Compensation pin group<br>Ausgleichsdruckbolzen<br>Gruppo perno di compensazione | Compensation pin group<br>Ausgleichsdruckbolzen<br>Gruppo perno di compensazione |
| 592 | 593 | 594 | 595 | 595 |

| 39D 896 | 39D 896 | 39D 896 | 39D 896 | 39D 896 |
|---|---|---|---|---|
|  |  |  |  |  |
| Compensation pin group<br>Ausgleichsdruckbolzen<br>Gruppo perno di compensazione | Compensation pin group<br>Ausgleichsdruckbolzen<br>Gruppo perno di compensazione | Backing plate<br>Distanzkappe<br>Reazione per cilindro | Retainer<br>Sicherungsplatte<br>Piastrina | Retainer<br>Sicherungsplatte<br>Piastrina |
| 596 | 596 | 597 | 597 | 597 |

| 39D 896 | 39D 951 | 39D 951 | 39D 952 | 39D 952 |
|---|---|---|---|---|
|  |  |  |  |  |
| Retainer<br>Sicherungsplatte<br>Piastrina | Air pin<br>Unterluftbolzen<br>Candela | Air pin<br>Unterluftbolzen<br>Candela | "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida a "V" VDI 3357 | ""V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida a "V" VDI 3357 |
| 598 | 599 | 600 | 601 | 601 |

| 39D 952 | 39D 952 | 39D 954 | 39D 954 | 39D 954 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver VDI 3357<br>Prismenführung mit festschmierstoff VDI 3357<br>Guida a "V" VDI 3357 | "V" driver VDI 3357<br>Prismenführung mit festschmierstoff VDI 3357<br>Guida a "V" VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 | Wear plate VDI 3357<br>Gleitplatte VDI 3357<br>Piastra guida VDI 3357 |
| 602 | 602 | 603 | 604 | 605 |

| 39D 956 | 39D 958 | 39D 969 | 39D 972 | 39D 976 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide bush<br>Führungsbuchse<br>Boccola autolubrificante | Stop pin<br>Haltebolzen<br>Perno di arresto | Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna guida tipo DIN 9833 | Lifter<br>Federbolzen<br>Sollevatore | Spacer plate toothed<br>Distanzplatte gezahnt<br>Tassello di compensazione |
| 606 | 606 | 607 | 608 | 609 |

| 39D 993 | 39D 995 | 39D 995 | 39D 995 | 39D 1392 |
|---|---|---|---|---|
|  |  |  |  |  |
| Plate for sensor<br>Halterung<br>Piastrina portasensore | Spacer<br>Distanzstück<br>Distanziale | Washer/stop block<br>Scheibe/halteplatte<br>Rondella/tassello | Retainer pin<br>Ziehteilheber<br>Perno con rondella | Distributor<br>Verteilerblocke<br>Distributore |
| 610 | 610 | 611 | 611 | 612 |

| 39D 1430 | 39D 1497 | 39V 863 | 39V 1071 | 39V 1159 |
|---|---|---|---|---|
|  |  |  |  |  |
| Distributor<br>Verteilerblocke<br>Distributore | Distributor<br>Verteilerblocke<br>Distributore | Visual locator setting punch<br>Stempel f. entgasungsnoppen<br>Punzone di visualizzazione | Threaded bush<br>Genwindebuchse<br>Boccola filettata | Gib VDI 3387<br>Führungslasche VDI 3387<br>Guida VDI 3387 |
| 612 | 612 | 613 | 613 | 614 |

| 39V 1162 | 39V 1162 | 39V 1168 | 39V 1176 | 39V 1178 |
|---|---|---|---|---|
|  |  |  |  |  |
| Stop block<br>Abstandsblock<br>Distanziale | Stop block<br>Abstandsblock<br>Distanziale | Locating cone<br>Kegeldistanz<br>Cono di centraggio | Coil spring<br>Schraubenfedern<br>Molla a filo | Stripper for blanking dies<br>Abstreifer für Platinenschnitte<br>Estrattore per stampi |
| 615 | 615 | 616 | 617 | 618 |

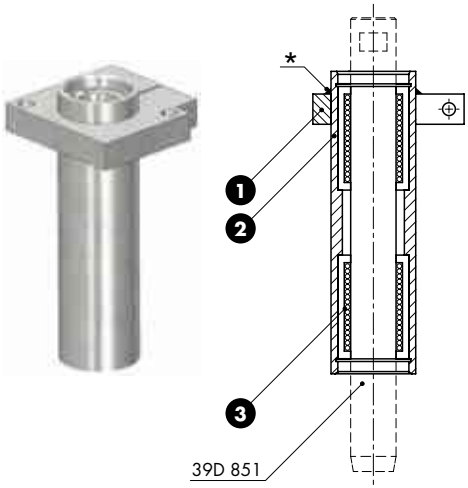
| 39V 1199 | 39V 1205 | 39V 1234 | 39V 1242 | 39V 1254 |
|---|---|---|---|---|
|  |  |  |  |  |
| Lifting pin VDI 3366<br>Tragschraube VDI 3366<br>Perno di sollevamento VDI 3366 | Locating pin<br>Zentrierbolzen<br>Centraggio | Ejector<br>Abdrückstift<br>Espulsore | Gage<br>Einweiser<br>Riferimento | Locating block<br>Fangbacke<br>Tassello di centraggio |
| 619 | 619 | 620 | 621 | 621 |

| 39V 1304 | 39V 1304 | 39V 1569 | 39V 1569 | 39V 1569 |
|---|---|---|---|---|
|  |  |  |  |  |
| Key<br>Passfeder<br>Chiavetta | Key<br>Passfeder<br>Chiavetta | Roller stock lifter<br>Federnde laufrolle<br>Rullino sollevamento nastro | Roller stock lifter<br>Federnde laufrolle<br>Rullino sollevamento nastro | Roller stock lifter<br>Federnde laufrolle<br>Rullino sollevamento nastro |
| 622 | 622 | 623 | 624 | 625 |

| 39D 22047 |
|---|
|  |
| Gage with position control<br>Klappeinweiser mit Lagekontrolle<br>Riferimento con controllo di posizione |
| 626 |

# 39D 506

## SLEEVE - FÜHRUNGSEINHEIT - CANOTTO GUIDA




**Notes**

1. **Material:** St37
2. **Material:** CK45
3. Linear ball bearing

STOCK ...

* Fixing at assembly with 3 spot welding
Bei der montage mit schweißpunkten befestigen
Fissare al montaggio con tre punti di saldatura

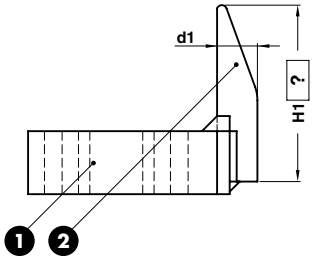
| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 506/10 |

| VW CODE |
|---|
| 39D 506/10 |

# 39D 528

## GAGE - EINWEISER - RIFERIMENTO






**Notes**

1. **Material:** St37
2. **Material:** CK15 - **HRC:** 58÷60

Only for replacement
Nur für Reparatur
Solo per riparazione

10 ...

| ORDER EXAMPLE | VW CODE | H1=200 |
|---|---|---|
| | 39D 528/3 | 200 |

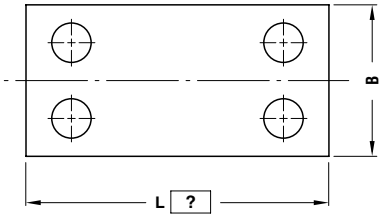
| VW CODE | d1 |
|---|---|
| 39D 528/1 | 16 |
| 39D 528/2 | 20 |
| 39D 528/3 | 25 |

## 39D 543

OMCR

### BRACE - VERLASCHUNG - BRETELLA






| Notes |
|---|
| **Material:** CK45 |

10

| ORDER EXAMPLE | VW CODE | L=200 |
|---|---|---|
| | 39D 543/2 | 200 |

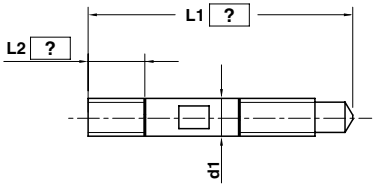
| VW CODE | B |
|---|---|
| 39D 543/1 | 80 |
| 39D 543/2 | 100 |

## 39D 571

OMCR

### TIE ROD - FÜHRUNGSBOLZEN - TIRANTE





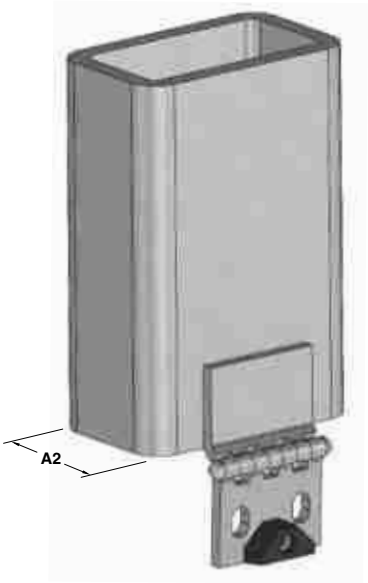

| Notes |
|---|
| **Material:** 9SMn28 |

10

| ORDER EXAMPLE | VW CODE | L1=300 | L2=100 |
|---|---|---|---|
| | 39D 571/13 | 300 | 100 |

| VW CODE | d1 |
|---|---|
| 39D 571/10 | 10 |
| 39D 571/13 | 13 |
| 39D 571/16 | 16 |
| 39D 571/20 | 20 |

## SPACING BAR - ABSTELLBOLZEN - DISTANZIALE




80 < L < 400

### Notes

1. **Material:** St37
2. AHA Hinge***
3. **Material:** Elastomer 68SH

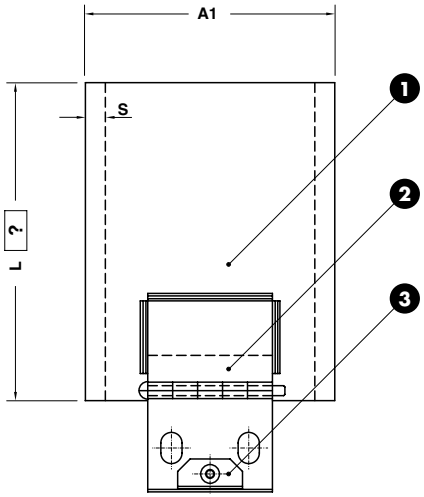
Only for replacement
Nur für Reparatur
Solo per riparazione

10 ...

* To storage dies without gas springs
Zum Abstellen von Presswerkzeugen ohne Gasdruckfederm
Per il deposito di stampi senza molla a gas

** To storage dies with gas springs
Zum Abstellen von Presswerkzeugen mit Gasdruckfederm
Per il deposito di stampi con molla a gas

*** Scharnier
Cerniera

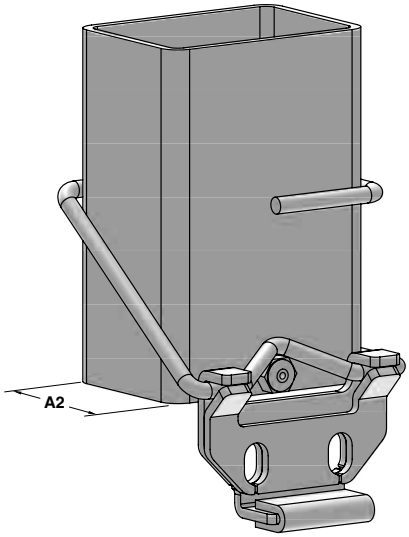



| ORDER EXAMPLE | VW CODE | L=150 |
|---|---|---|
| | 39D 578/30 | 150 |

| VW CODE | A1 | A2 | S |
|---|---|---|---|
| 39D 578/30* | 100 | 60 | 7-8 |
| 39D 578/40** | 70 | 50 | 3 |

## SPACING BAR - ABSTELLBOLZEN - DISTANZIALE



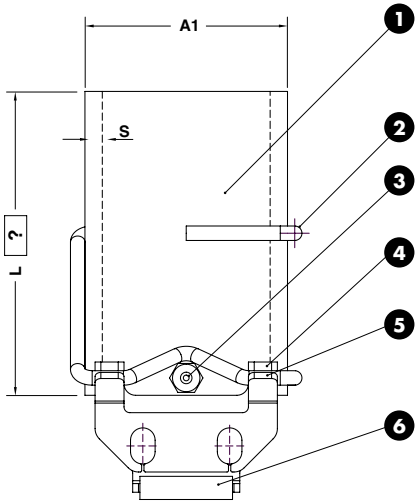



80 < L < 400

**Notes**

1. **Material:** St37
2. Steel spring
3. Rivet
4. Plate
5. Plate
6. PVC

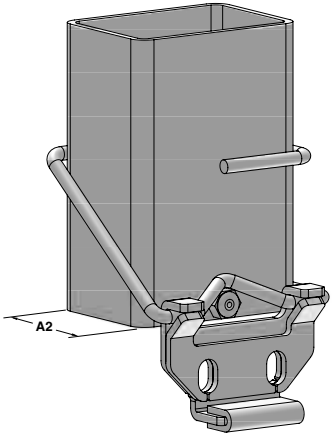
10 ...




| ORDER EXAMPLE | VW CODE | L=150 |
|---|---|---|
| | 39D 578/70 | 150 |

| VW CODE | A1 | A2 | S |
|---|---|---|---|
| 39D 578/70 | 70 | 50 | 5 |
| 39D 578/80 | 70 | 50 | 3 |

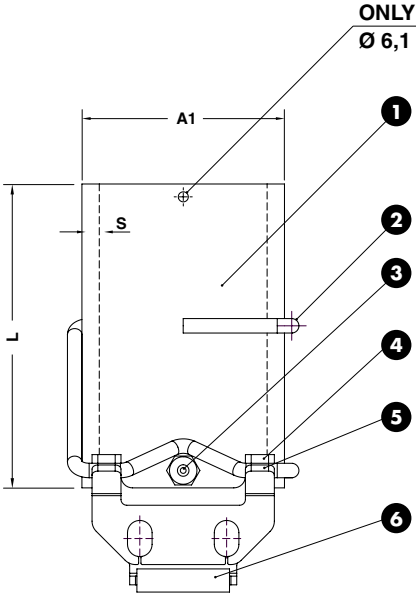
## SPACING BAR - ABSTELLBOLZEN - DISTANZIALE




**Notes**

1. **Material:** St37
2. Steel spring
3. Rivet
4. Plate
5. Plate
6. PVC

10 ...




ORDER EXAMPLE

| VW CODE |
|---|
| 39D 578/71 |

| VW CODE | L | A1 | A2 | S |
|---|---|---|---|---|
| 39D 578/71 | 480 | 70 | 50 | 5 |
| 39D 578/81 | 480 | 70 | 50 | 3 |
| 39D 578/82 | 215 | 70 | 50 | 3 |

## 39D 578

OMCR

### BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 578/2 |

| VW CODE |
|---|
| 39D 578/2 |

## 39D 578

OMCR

### BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO




**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 578/56 |

| VW CODE | d1 |
|---|---|
| 39D 578/55 | 90 |
| 39D 578/56 | 100 |

## 39D 578

OMCR

### BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 578/65 |

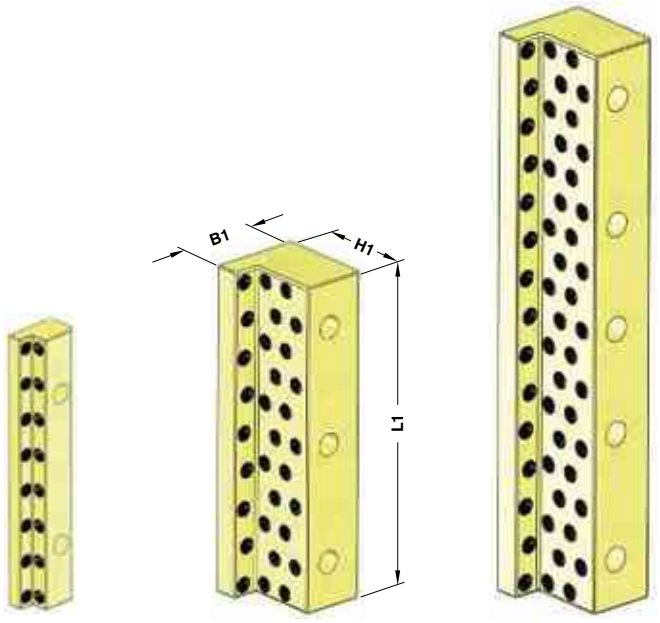
| VW CODE |
|---|
| 39D 578/65 |

## ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




**FORM A** **FORM B** **FORM C**

ORDER EXAMPLE

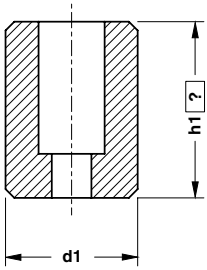
| VW CODE |
|---|
| 39D 582/1 |

| VW CODE | L1 | B1 | H1 | FORM |
|---|---|---|---|---|
| 39D 582/1 | 125 | 25 | 15 | A |
| 39D 582/2 | 160 | 25 | 15 | A |
| 39D 582/3 | 125 | 32 | 30 | A |
| 39D 582/4 | 160 | 32 | 30 | A |
| 39D 582/5 | 200 | 32 | 30 | A |
| 39D 582/6 | 100 | 55 | 55 | A |
| 39D 582/7 | 160 | 55 | 55 | A |
| 39D 582/11 | 160 | 70 | 75 | A |

| VW CODE | L1 | B1 | H1 | FORM |
|---|---|---|---|---|
| 39D 582/12 | 200 | 70 | 75 | A |
| 39D 582/13 | 250 | 70 | 75 | B |
| 39D 582/15 | 400 | 70 | 75 | C |
| 39D 582/16 | 160 | 85 | 90 | A |
| 39D 582/17 | 200 | 85 | 90 | A |
| 39D 582/18 | 250 | 85 | 90 | B |
| 39D 582/20 | 400 | 85 | 90 | C |

## SPACER - RÜCKFALLDISTANZ - DISTANZIALE






| Notes |
|---|
| **Material:** CK45 |

10

ORDER EXAMPLE

| VW CODE | h1=30 |
|---|---|
| 39D 592/11 | 30 |

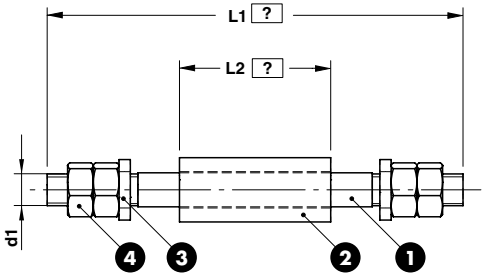
| VW CODE | d1 |
|---|---|
| 39D 592/10 | 25 |
| 39D 592/11 | 30 |
| 39D 592/12 | 40 |
| 39D 592/13 | 50 |

# 39D 599

OMCR

## TIE ROD - DRUCK UND ZUGANKER - TIRANTE






**Notes**

1. **Material:** 34Cr4
2. **Material:** St37
3. **Material:** CK45
4. DIN 934

| ORDER EXAMPLE | VW CODE | L1=550 | L2=200 |
|---|---|---|---|
| | 39D 599/1 | 550 | 200 |

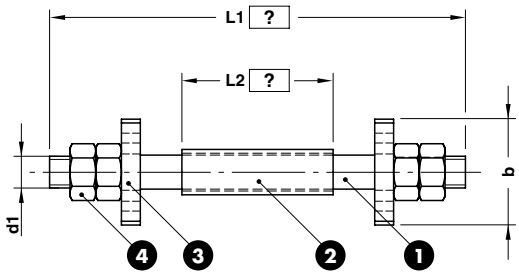
| VW CODE | d1 |
|---|---|
| 39D 599/1 | M42x1,5 |


# 39D 599

OMCR

## TIE ROD - DRUCK UND ZUGANKER - TIRANTE




**Notes**

1. **Material:** 34Cr4
2. **Material:** St37
3. **Material:** CK45
4. DIN 934

| ORDER EXAMPLE | VW CODE | L1=550 | L2=200 |
|---|---|---|---|
| | 39D 599/2B | 550 | 200 |

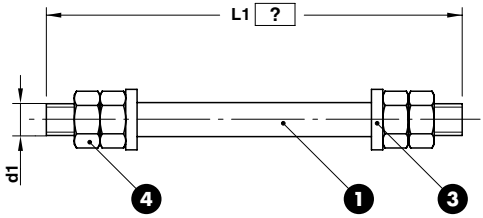
| VW CODE | b | d1 |
|---|---|---|
| 39D 599/2 | 140 | M42x1,5 |
| 39D 599/5 | 160 | M42x1,5 |

## 39D 599

OMCR

### TIE ROD - DRUCK UND ZUGANKER - TIRANTE






**Notes**

1. **Material:** 34Cr4
3. **Material:** CK45
4. DIN 934

| ORDER EXAMPLE | VW CODE | L1=550 |
|---|---|---|
| | 39D 599/3 | 550 |

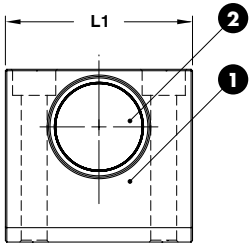
| VW CODE | d1 |
|---|---|
| 39D 599/3 | M42 x 1.5 |
| 39D 599/4 | M56 x 1.5 |

## 39D 630

OMCR

### SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA






**Notes**

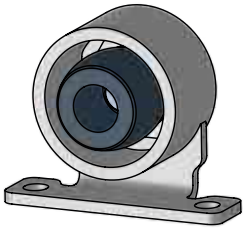
1. **Material:** CK45
2. **Material:** Elastomer 90 SH

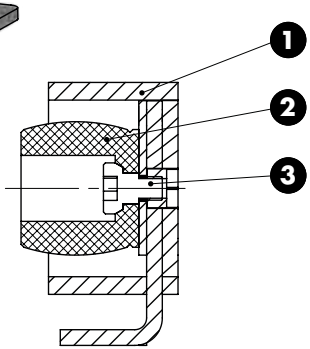
Only for replacement
Nur für Reparatur
Solo per riparazione

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 630/8 |

| VW CODE | L1 |
|---|---|
| 39D 630/8 | 65 |
| 39D 630/10 | 75 |

## SLIDE STOP BLOCK - SCHIEBERANSCHLAG - ARRESTO SLITTA






**Notes**

1. **Material:** St37
2. **Material:** CO-Polyester Elastomer
3. M6x12 DIN 912

STOCK ...

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 630/22 |

| VW CODE |
|---|
| 39D 630/22 |

39D 630

## SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA



**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

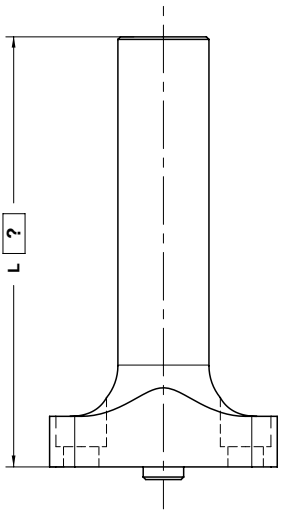
| VW CODE |
|---|
| 39D 630/25 |

| VW CODE |
|---|
| 39D 630/21 |
| 39D 630/25 |

## AIR PIN - DRUCKBOLZEN - CANDELA



39D 638/2




L max = 360

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

10

| ORDER EXAMPLE | VW CODE | L=150 |
|---|---|---|
| | 39D 638/3 | 150 |

| VW CODE |
|---|
| 39D 638/2 |
| 39D 638/3 |
| 39D 638/4 |
| 39D 638/5 |



39D 638/3



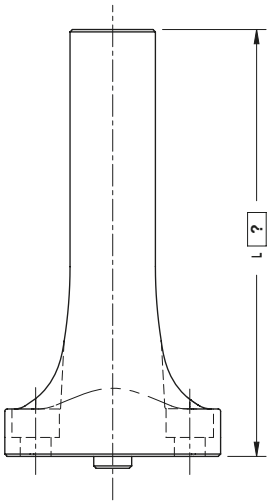
39D 638/4



39D 638/5

## AIR PIN - DRUCKBOLZEN - CANDELA






**39D 638/10**

L max = 360

**Notes**

**Material:** C45 - 800÷1000 N/mm²

10



**39D 638/11**



**39D 638/12**

ORDER EXAMPLE

| VW CODE | L=150 |
|---|---|
| 39D 638/11 | 150 |

| VW CODE |
|---|
| 39D 638/10 |
| 39D 638/11 |
| 39D 638/12 |

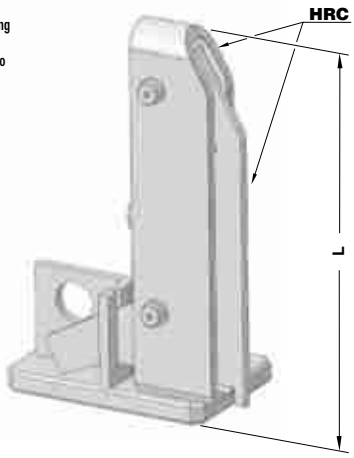
# 39D 639

OMCR

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE

* As shown in drawing
Germäß zeichnung
Come a disegno

** Opposite to drawing
Spiegelverkehrt
Opposto al disegno




STOCK

**Notes**

**Material:** Steel - **HRC:** 58÷60
Only for replacement
Nur für Reparatur
Solo per riparazione

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 639/3 |

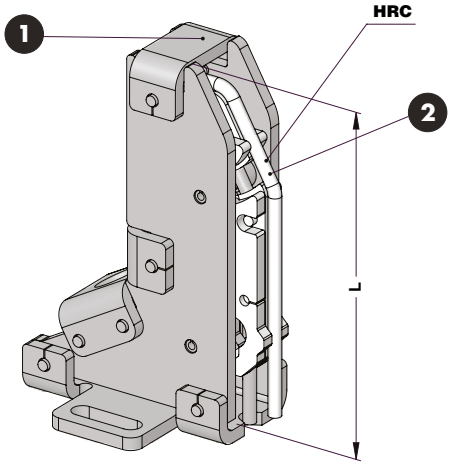
| VW CODE | L | SIDE |
|---|---|---|
| 39D 639/1 | 145 | LEFT** |
| 39D 639/2 | 145 | RIGHT* |
| 39D 639/3 | 185 | LEFT ** |
| 39D 639/4 | 185 | RIGHT* |
| 39D 639/25 | 225 | LEFT ** |
| 39D 639/26 | 225 | RIGHT* |
| 39D 639/30 | 145 | LEFT** |
| 39D 639/31 | 145 | RIGHT* |
| 39D 639/32 | 185 | LEFT ** |
| 39D 639/33 | 185 | RIGHT* |
| 39D 639/34 | 225 | LEFT ** |
| 39D 639/35 | 225 | RIGHT* |

Standard VW/Audi


# 39D 639

OMCR

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE


**Notes**

1 **Material:** St37

2 **Material:** Steel HRC:40-45

STOCK ...

ORDER EXAMPLE

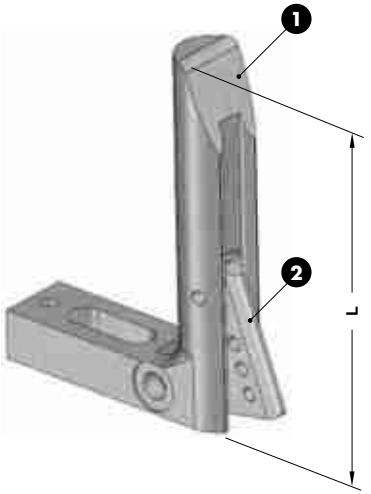
| VW CODE |
|---|
| 39D 639/40 |

| VW CODE | L |
|---|---|
| 39D 639/40 | 145 |
| 39D 639/41 | 185 |
| 39D 639/42 | 225 |

# 39D 639

OMCR

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTOLLE - RIFERIMENTO PER SENSORE




**Notes**

1. **Material:** CK60
2. **Material:** St37

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 639/22 |

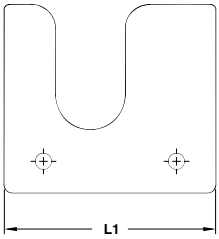
| VW CODE | L |
|---|---|
| 39D 639/20 | 120 |
| 39D 639/21 | 150 |
| 39D 639/22 | 180 |
| 39D 639/23 | 250 |

# 39D 649

OMCR

## SHIM - SPANNSCHLITZ - SPESSORE






**Notes**

**Material:** St52

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 649/2 |

| VW CODE | L1 |
|---|---|
| 39D 649/1 | 110 |
| 39D 649/2 | 135 |
| 39D 649/3 | 185 |
| 39D 649/4 | 160 |

## RETAINER BOLT - HALTEBOLZEN - GRUPPO TIRANTE

### Notes

1 3 **Material:** 42CrMo4

2 4 **Material:** CK45

5 **Material:** Elastomer Black 68 SH
Elastomer Red 90 SH

6 Split Pin DIN EN ISO 1234

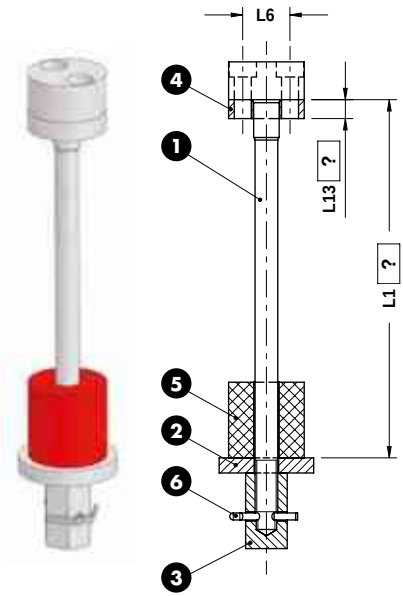
Only for replacement
Nur für Reparatur
Solo per riparazione

Respect the max. load
Maximale Nutzlast beachten
Rispettare il carico max.

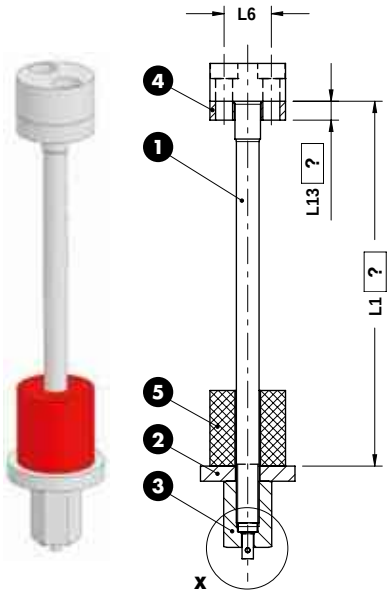
10 ...



### 39D 650/31÷38

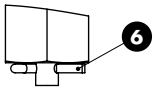



### 39D 650/51÷58




*Max. capacity load
Belastbakeit max.
Portata massima

**Optional washer, L13=?
Scheibe optionals, L13=?
Rondella opzionale, L13=?




DETAIL X

| ORDER EXAMPLE | VW CODE | L1=190 | L13=10** |
|---|---|---|---|
| | 39D 650/32 | 190 | 10 |

| VW CODE | L6 | MCL*(N) | Elastomer Shore (SH) |
|---|---|---|---|
| 39D 650/31 | 25 | 15000 | 68 |
| 39D 650/32 | 30 | 25000 | 68 |
| 39D 650/33 | 30 | 25000 | 68 |
| 39D 650/34 | 34 | 45000 | 68 |
| 39D 650/35 | 25 | 15000 | 90 |
| 39D 650/36 | 30 | 25000 | 90 |
| 39D 650/37 | 30 | 25000 | 90 |
| 39D 650/38 | 34 | 45000 | 90 |

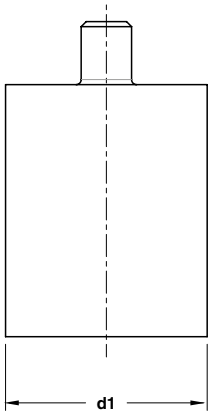
| VW CODE | L6 | MCL*(N) | Elastomer Shore (SH) |
|---|---|---|---|
| 39D 650/51 | 25 | 15000 | 68 |
| 39D 650/52 | 30 | 25000 | 68 |
| 39D 650/53 | 30 | 25000 | 68 |
| 39D 650/54 | 34 | 45000 | 68 |
| 39D 650/55 | 25 | 15000 | 90 |
| 39D 650/56 | 30 | 25000 | 90 |
| 39D 650/57 | 30 | 25000 | 90 |
| 39D 650/58 | 34 | 45000 | 90 |

# 39D 651

OMCR

## POLYURETAN SPRING - FEDERBLOCK - AMMORTIZZATORE






**Notes**

**Material:** Elastomer 92 SH

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 651/2 |

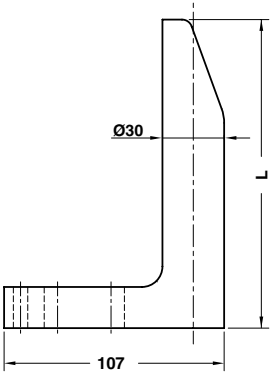
| VW CODE | d1 |
|---|---|
| 39D 651/1 | 63 |
| 39D 651/2 | 80 |
| 39D 651/3 | 100 |
| 39D 651/4 | 125 |

# 39D 807

OMCR

## GAGE - EINWEISER - RIFERIMENTO






**Notes**

**Material:** CK60

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 807/1 L=90 |

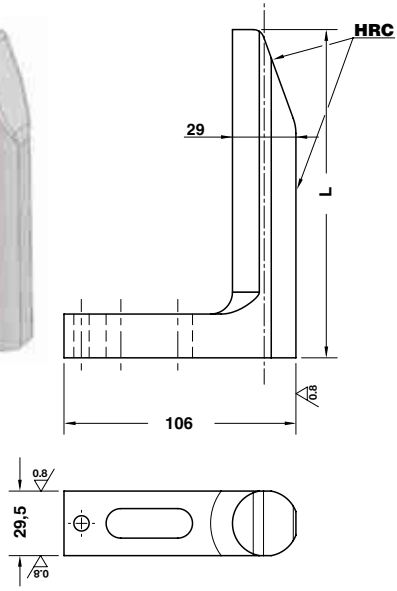
| VW CODE | L |
|---|---|
| 39D 807/1 L=65 | 65 |
| 39D 807/1 L=90 | 90 |
| 39D 807/1 L=120 | 120 |
| 39D 807/1 L=150 | 150 |
| 39D 807/1 L=180 | 180 |
| 39D 807/1 L=250 | 250 |
| 39D 807/1 L=300 | 300 |
| 39D 807/1 L=350 | 350 |

# 39D 807

OMCR

## PRECISION GAGE - FEINENWEISER - RIFERIMENTO DI PRECISIONE






**Notes**

**Material:** CK60 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 807/2 L=90 |

| VW CODE | L |
|---|---|
| 39D 807/2 L=65 | 65 |
| 39D 807/2 L=90 | 90 |
| 39D 807/2 L=120 | 120 |
| 39D 807/2 L=150 | 150 |
| 39D 807/2 L=180 | 180 |
| 39D 807/2 L=250 | 250 |
| 39D 807/2 L=300 | 300 |
| 39D 807/2 L=350 | 350 |

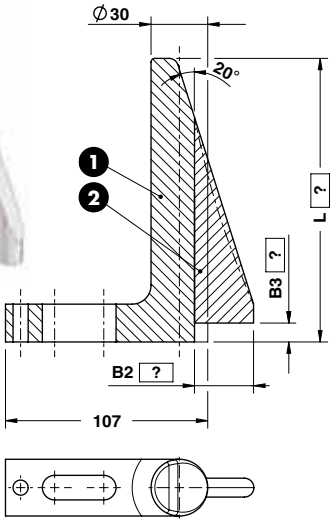
Standard VW/Audi

# 39D 807

OMCR

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

1 2

**Material:** CK60 - **HRC:** 58÷60

20

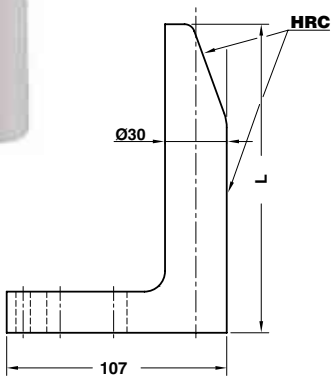
ORDER EXAMPLE

| VW CODE | L=90 | B2=20 | B3=5 |
|---|---|---|---|
| 39D 807/3 | 90 | 20 | 5 |

| VW CODE | L |
|---|---|
| 39D 807/3 | ≥ 65 - 350 |

## GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

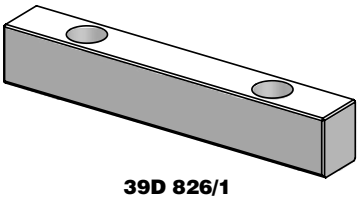
| VW CODE |
|---|
| 39D 807/4 L=90 |

| VW CODE | L |
|---|---|
| 39D 807/4 L=65 | 65 |
| 39D 807/4 L=90 | 90 |
| 39D 807/4 L=120 | 120 |
| 39D 807/4 L=150 | 180 |
| 39D 807/4 L=180 | 150 |
| 39D 807/4 L=250 | 250 |
| 39D 807/4 L=300 | 300 |
| 39D 807/4 L=350 | 350 |

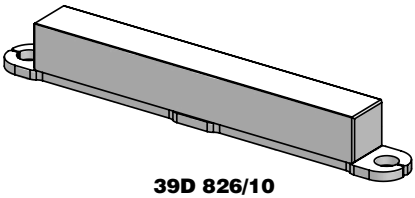
# 39D 826

OMCR

## KEY - PASSFEDER - CHIAVETTA



39D 826/1



39D 826/10

**Notes**

**Material:** CK45+C

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 826/1 |

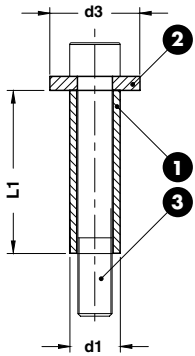
| VW CODE |
|---|
| 39D 826/1 |
| 39D 826/10 |

# 39D 828

OMCR

## PAD RETAINER - HALTEELEMENT - GRUPPO TIRANTE






**Notes**

1. **Material:** St37
2. **Material:** CK45
3. DIN 912 cl. 8.8

STOCK ...

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 828/5 |

| VW CODE | d1 x L1 | d3 | Screw DIN 912 cl. 8.8 |
|---|---|---|---|
| 39D 828/4 | 16 x 40 | 25 | M10x60 |
| 39D 828/5 | 16 x 50 | 25 | M10x70 |
| 39D 828/6 | 16 x 63 | 25 | M10x90 |
| 39D 828/8 | 16 x 100 | 25 | M10x120 |
| 39D 828/9 | 20 x 50 | 30 | M12x80 |
| 39D 828/10 | 20 x 63 | 30 | M12x90 |
| 39D 828/11 | 20 x 80 | 30 | M12x110 |

| VW CODE | d1 x L1 | d3 | Screw DIN 912 cl. 8.8 |
|---|---|---|---|
| 39D 828/12 | 20 x 100 | 30 | M12x130 |
| 39D 828/13 | 25 x 63 | 38 | M16x100 |
| 39D 828/14 | 25 x 80 | 38 | M16x110 |
| 39D 828/15 | 25 x 100 | 38 | M16x130 |
| 39D 828/16 | 25 x 125 | 38 | M16x160 |
| 39D 828/17 | 30 x 80 | 45 | M20x120 |
| 39D 828/19 | 30 x 125 | 45 | M20x180 |

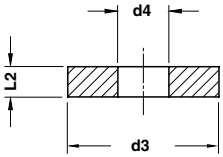
| VW CODE | d1 x L1 | d3 | Screw DIN 912 cl. 8.8 |
|---|---|---|---|
| 39D 828/20 | 36 x 80 | 55 | M24x130 |
| 39D 828/21 | 36 x 100 | 55 | M24x150 |
| 39D 828/22 | 36 x 125 | 55 | M24x180 |
| 39D 828/23 | 42 x 80 | 65 | M30x140 |
| 39D 828/24 | 42 x 100 | 65 | M30x160 |
| 39D 828/25 | 42 x 125 | 65 | M30x200 |

# 39D 828

OMCR

## WASHER - SCHEIBE - RONDELLA






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

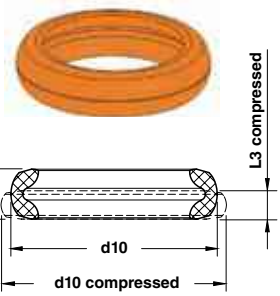
| VW CODE |
|---|
| 39D 828/42 |

| VW CODE | d3 | d4 | L2 |
|---|---|---|---|
| 39D 828/41 | 25 | 10,5 | 5 |
| 39D 828/42 | 30 | 13,2 | 5 |
| 39D 828/43 | 38 | 17,0 | 6 |
| 39D 828/44 | 45 | 21,0 | 8 |
| 39D 828/45 | 55 | 25,0 | 10 |
| 39D 828/46 | 30 | 10,5 | 5 |
| 39D 828/47 | 35 | 13,0 | 5 |
| 39D 828/48 | 50 | 17,0 | 6 |
| 39D 828/49 | 65 | 21,0 | 8 |
| 39D 828/50 | 70 | 25,0 | 10 |
| 39D 828/57 | 65 | 32,0 | 15 |
| 39D 828/58 | 90 | 32,0 | 15 |

# 39D 828

OMCR

## ELASTOMER WASHER - DÄMPFUNGSCHEIBE - AMMORTIZZATORE




**Notes**

**Material:** CO-Polyester Elastomer

STOCK

*Die höchste Belastung
Carico massimo ammissibile

**Komprimiert
Compresso

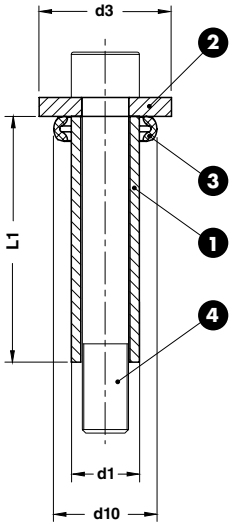
ORDER EXAMPLE

| VW CODE |
|---|
| 39D 828/52 |

| VW CODE | d10 | d10 (compressed**) | L3 | L3 (compressed**) | Shore | Load* (N) |
|---|---|---|---|---|---|---|
| 39D 828/51 | 26,2 | 28,4 | 7,8 ±0,3 | 5,5 ±0,3 | 55D | 5500 |
| 39D 828/52 | 32,1 | 35,1 | 10,8 ±0,3 | 6,0 ±0,3 | 72D | 9000 |
| 39D 828/53 | 46,3 | 49,8 | 17,0 ±0,4 | 11,6 ±0,3 | 72D | 20000 |
| 39D 828/54 | 54,6 | 61,8 | 21,3 ±0,4 | 13,0 ±0,3 | 55D | 30000 |
| 39D 828/55 | 61,8 | 69,9 | 21,5 ±0,4 | 13,2 ±0,3 | 55D | 46000 |
| 39D 828/56 | 78,2 | 89,0 | 29,8 ±0,5 | 17,9 ±0,3 | 55D | 75000 |

# ANTI-REBOUND PAD RETAINER
# HALTEELEMENT MIT DÄMPFUNG
# GRUPPO TIRANTE ANTIRIMBALZO






**Notes**

1. **Material:** St37
2. **Material:** CK45
3. **Material:** CO-Polyester Elastomer
4. DIN 912 cl. 8.8

STOCK ...

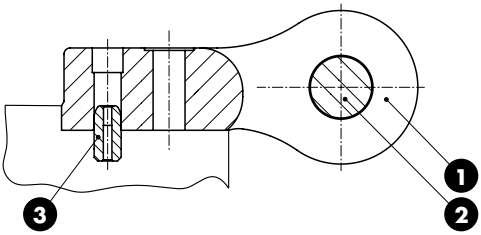


ORDER EXAMPLE

| VW CODE |
|---|
| 39D 828/74 |

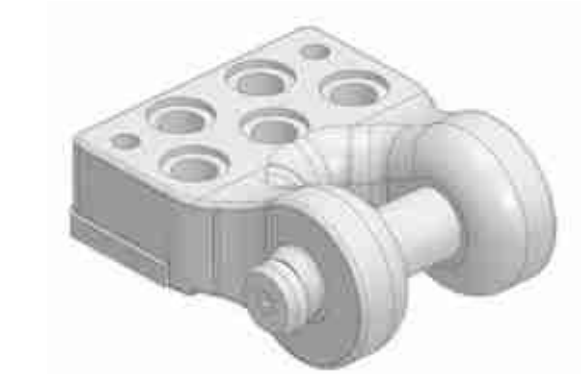
| VW CODE | d1 x L1 | d3 | d10 | Screw DIN 912 cl. 8.8 | Shore | VW CODE | d1 x L1 | d3 | d10 | Screw DIN 912 cl. 8.8 | Shore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **39D 828/73** | 16 x 40 | 30 | 26,2 | M10x60 | 55D | **39D 828/84** | 25 x 100 | 50 | 46,3 | M16x130 | 72D |
| **39D 828/74** | 16 x 50 | 30 | 26,2 | M10x70 | 55D | **39D 828/85** | 25 x 125 | 50 | 46,3 | M16x160 | 72D |
| **39D 828/75** | 16 x 63 | 30 | 26,2 | M10x90 | 55D | **39D 828/86** | 30 x 80 | 65 | 54,6 | M20x120 | 55D |
| **39D 828/77** | 16 x 100 | 30 | 26,2 | M10x120 | 55D | **39D 828/88** | 30 x 125 | 65 | 54,6 | M20x180 | 55D |
| **39D 828/78** | 20 x 50 | 35 | 32,1 | M12x80 | 72D | **39D 828/89** | 36 x 80 | 70 | 61,8 | M24x130 | 55D |
| **39D 828/79** | 20 x 63 | 35 | 32,1 | M12x90 | 72D | **39D 828/90** | 36 x 100 | 70 | 61,8 | M24x150 | 55D |
| **39D 828/80** | 20 x 80 | 35 | 32,1 | M12x110 | 72D | **39D 828/91** | 36 x 125 | 70 | 61,8 | M24x180 | 55D |
| **39D 828/81** | 20 x 100 | 35 | 32,1 | M12x130 | 72D | **39D 828/92** | 42 x 80 | 90 | 78,2 | M30x140 | 55D |
| **39D 828/82** | 25 x 63 | 50 | 46,3 | M16x100 | 72D | **39D 828/93** | 42 x 100 | 90 | 78,2 | M30x160 | 55D |
| **39D 828/83** | 25 x 80 | 50 | 46,3 | M16x110 | 72D | **39D 828/94** | 42 x 125 | 90 | 78,2 | M30x200 | 55D |

# LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN
# STAFFA DI SOLLEVAMENTO COMPLETA DI PERNO E CENTRAGGI






**FORM A**



**FORM B**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. 39D 866 - **Material:** CK45
3. 39V 1205/1
   **Material:** 16MnCr5 - **HRC:** 58÷62

Screws not included

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 839/2 |

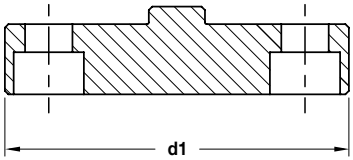
| VW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| 39D 839/1 | 8000 | 16000 | A |
| 39D 839/2 | 12500 | 25000 | B |

## BLOCK - DRUCKPLATTEN FÜR GASDRUCKFEDERN - REAZIONE PER CILINDRO



| Notes |
|---|
| **Material:** 16MnCr5 - **HRC:** 58÷60 |

STOCK




| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 847/2 |

| VW CODE | d1 |
|---|---|
| 39D 847/1 | 98 |
| 39D 847/2 | 113 |
| 39D 847/3 | 128 |
| 39D 847/4 | 143 |



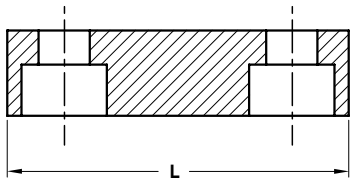
39D 847 OMCR

BLOCK - DRUCKPLATTEN FÜR GASDRUCKFEDERN - REAZIONE PER CILINDRO



| Notes |
|---|
| **Material:** 16MnCr5 - **HRC:** 58÷60 |

STOCK



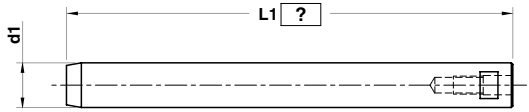

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 847/11 |

| VW CODE | L |
|---|---|
| 39D 847/10 | 40 |
| 39D 847/11 | 60 |
| 39D 847/12 | 70 |
| 39D 847/13 | 100 |
| 39D 847/14 | 140 |

## SLIDING PIN - FÜHRUNGSSÄULE - PERNO SCORREVOLE



| Notes |
|---|
| **Material:** CK45 - **HRC:** 60÷62 |




| ORDER EXAMPLE | VW CODE | L1=300 |
|---|---|---|
| | 39D 851/20 | 300 |

| VW CODE | d1 |
|---|---|
| 39D 851/20 | 20 |
| 39D 851/25 | 25 |
| 39D 851/30 | 30 |

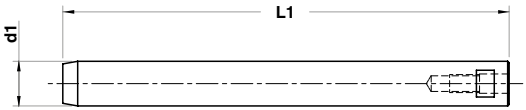
39D 851

## SLIDING PIN - FÜHRUNGSSÄULE - PERNO SCORREVOLE



| Notes |
|---|
| **Material:** CK45 - **HRC:** 60÷62 |

10

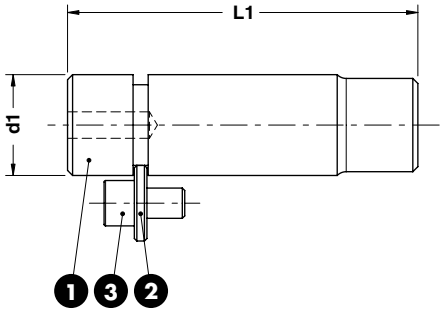



| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 851/32 |

| VW CODE | d1 | L1 |
|---|---|---|
| 39D 851/32 | 30 | 270 |
| 39D 851/34 | 30 | 425 |

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** 42CrMo4 - 1000 N/mm²
2. 39D 828/42
3. DIN EN ISO 4762 M12x20

STOCK ...

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 854/2 |

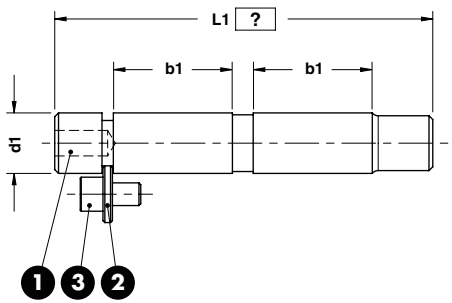
| VW CODE | d1 | L1 |
|---|---|---|
| 39D 854/1 | 32 | 105 |
| 39D 854/2 | 32 | 122 |
| 39D 854/3 | 40 | 139 |
| 39D 854/4 | 40 | 159 |
| 39D 854/5 | 50 | 167 |
| 39D 854/6 | 50 | 192 |
| 39D 854/7 | 63 | 202 |
| 39D 854/8 | 63 | 237 |



39D 854 OMCR

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

1. **Material:** 42CrMo4 - 1000 N/mm²
2. 39D 828/42
3. DIN EN ISO 4762 M12x20

10 ...

ORDER EXAMPLE

| VW CODE | L1=150 |
|---|---|
| 39D 854/13 | 150 |

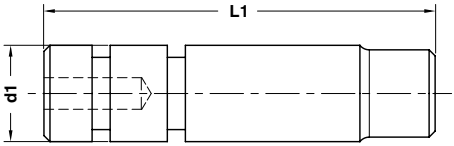
| VW CODE | b1 | d1 |
|---|---|---|
| 39D 854/11 | 63 | 32 |
| 39D 854/13 | 80 | 40 |
| 39D 854/15 | 100 | 50 |
| 39D 854/17 | 125 | 63 |
| 39D 854/21 | 80 | 32 |
| 39D 854/23 | 100 | 40 |
| 39D 854/25 | 125 | 50 |
| 39D 854/27 | 160 | 63 |

# 39D 854

OMCR

## PAD RETAINER PIN - ABSTECKBOLZEN - PERNO DI ARRESTO






**Notes**

**Material:** 42CrMo4 - 800÷1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

10

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 854/442 |

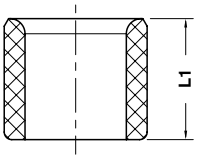
| VW CODE | d1 | L1 |
|---|---|---|
| 39D 854/441 | 32 | 130 |
| 39D 854/442 | 32 | 147 |
| 39D 854/443 | 40 | 171 |
| 39D 854/444 | 40 | 191 |
| 39D 854/445 | 50 | 207 |
| 39D 854/446 | 50 | 232 |
| 39D 854/447 | 63 | 252 |
| 39D 854/448 | 63 | 287 |

# 39D 855

OMCR

## BUSH - DÄMPFUNGSBUCHSE - BOCCOLA






**Notes**

**Material:** Nylatron GSM P30

Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 855/5 |

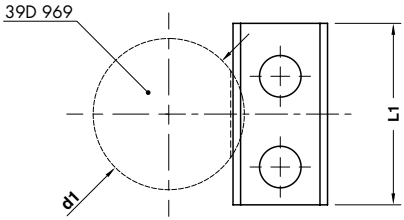
| VW CODE | L1 |
|---|---|
| 39D 855/4 | 32 |
| 39D 855/5 | 40 |
| 39D 855/6 | 50 |

# 39D 856

OMCR

## RETAINER - SICHERUNGSPLATTE - PIASTRINA






| Notes |
|---|
| **Material:** St37 |

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 856/2 |

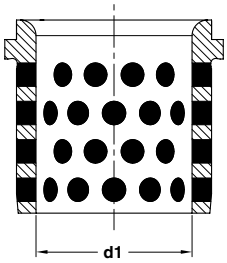
| VW CODE | d1 | L1 |
|---|---|---|
| 39D 856/2 | 25 | 40 |
| | 32 | 40 |
| 39D 856/4 | 40 | 48 |
| | 50 | 48 |
| 39D 856/6 | 63 | 60 |
| | 80 | 60 |

# 39D 860

OMCR

## BUSH SELF-LUBRICATING DIN 9834
## FUHRUNGSBUCHSE DIN 9834
## BOCCOLA AUTOLUBRIFICANTE DIN 9834






| Notes |
|---|
| **Material:** Bronze + Graphite<br>**HB** > 190 |

STOCK

ORDER EXAMPLE

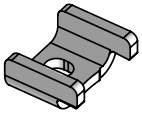
| VW CODE |
|---|
| 39D 860/32 |

| VW CODE | d1 |
|---|---|
| 39D 860/31 | 25 |
| 39D 860/32 | 32 |
| 39D 860/33 | 40 |
| 39D 860/34 | 50 |
| 39D 860/35 | 63 |
| 39D 860/36 | 80 |
| 39D 860/37 | 100 |
| 39D 860/38 | 125 |
| 39D 860/40 | 160 |

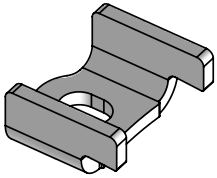
# 39D 861

OMCR

## TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA



**39D 861/12**



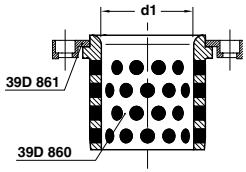
**39D 861/14**

**Notes**

**Material:** CK45

STOCK

**Application example**




| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 861/12 |

| VW CODE | d1 |
|---|---|
| 39D 861/12 | 25÷50 |
| 39D 861/14 | 63÷160 |


# 39D 861

OMCR

## TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA


STOCK

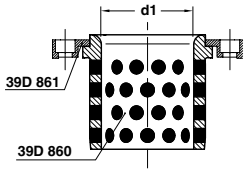
**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione



**Application example**




| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 861/6 |

| VW CODE | d1 |
|---|---|
| 39D 861/6 | 25÷50 |
| 39D 861/10 | 63÷160 |

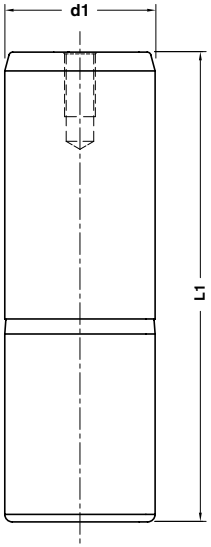
## GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA GUIDA DIN 9833



**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10






ORDER EXAMPLE

| VW CODE |
|---|
| 39D 862/47 |

| VW CODE | d1 | L1 |
|---|---|---|
| 39D 862/13 | 25 | 125 |
| 39D 862/14 | 25 | 140 |
| 39D 862/15 | 25 | 160 |
| 39D 862/16 | 25 | 180 |
| 39D 862/23 | 32 | 140 |
| 39D 862/24 | 32 | 160 |
| 39D 862/25 | 32 | 180 |
| 39D 862/26 | 32 | 200 |
| 39D 862/31 | 40 | 140 |
| 39D 862/32 | 40 | 160 |
| 39D 862/33 | 40 | 180 |
| 39D 862/34 | 40 | 200 |
| 39D 862/35 | 40 | 224 |
| 39D 862/36 | 40 | 250 |
| 39D 862/37 | 40 | 280 |
| 39D 862/41 | 50 | 160 |
| 39D 862/42 | 50 | 180 |
| 39D 862/43 | 50 | 200 |
| 39D 862/44 | 50 | 224 |

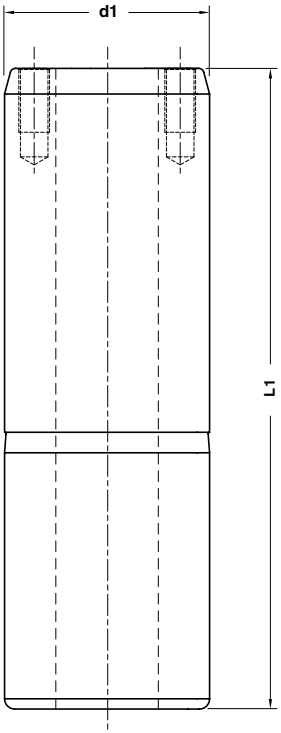
| VW CODE | d1 | L1 |
|---|---|---|
| 39D 862/45 | 50 | 250 |
| 39D 862/46 | 50 | 280 |
| 39D 862/47 | 50 | 315 |
| 39D 862/48 | 50 | 355 |
| 39D 862/51 | 63 | 180 |
| 39D 862/52 | 63 | 200 |
| 39D 862/53 | 63 | 224 |
| 39D 862/54 | 63 | 250 |
| 39D 862/55 | 63 | 280 |
| 39D 862/56 | 63 | 315 |
| 39D 862/57 | 63 | 355 |
| 39D 862/58 | 63 | 400 |
| 39D 862/62 | 80 | 224 |
| 39D 862/63 | 80 | 250 |
| 39D 862/64 | 80 | 280 |
| 39D 862/65 | 80 | 315 |
| 39D 862/66 | 80 | 355 |
| 39D 862/67 | 80 | 400 |

## GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA GUIDA DIN 9833

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62



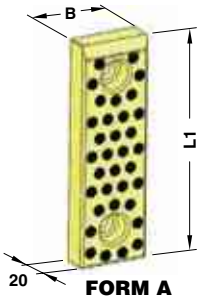



| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 862/75 |

| VW CODE | d1 | L1 |
|---|---|---|
| 39D 862/73 | 100 | 280 |
| 39D 862/74 | 100 | 315 |
| 39D 862/75 | 100 | 355 |
| 39D 862/76 | 100 | 400 |
| 39D 862/82 | 125 | 315 |
| 39D 862/83 | 125 | 355 |
| 39D 862/84 | 125 | 400 |

| VW CODE | d1 | L1 |
|---|---|---|
| 39D 862/85 | 125 | 450 |
| 39D 862/86 | 125 | 500 |
| 39D 862/93 | 160 | 400 |
| 39D 862/94 | 160 | 450 |
| 39D 862/95 | 160 | 500 |
| 39D 862/96 | 160 | 560 |

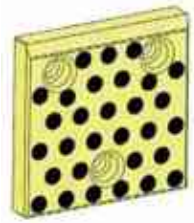
# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357




FORM A



FORM B



FORM C



FORM D

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK



ORDER EXAMPLE

| VW CODE |
|---|
| 39D 863/12 |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/12 | 50 | 80 | A |
| 39D 863/13 | 50 | 100 | A |
| 39D 863/14 | 50 | 125 | A |
| 39D 863/15 | 50 | 160 | A |
| 39D 863/16 | 50 | 200 | A |
| 39D 863/21 | 80 | 50 | B |
| 39D 863/22 | 80 | 80 | A |
| 39D 863/23 | 80 | 100 | A |
| 39D 863/24 | 80 | 125 | A |
| 39D 863/25 | 80 | 160 | A |
| 39D 863/26 | 80 | 200 | A |
| 39D 863/31 | 100 | 50 | B |
| 39D 863/32 | 100 | 80 | B |
| 39D 863/33 | 100 | 100 | A |
| 39D 863/34 | 100 | 125 | A |
| 39D 863/35 | 100 | 160 | A |
| 39D 863/36 | 100 | 200 | A |
| 39D 863/41 | 125 | 50 | B |
| 39D 863/42 | 125 | 80 | B |
| 39D 863/43 | 125 | 100 | C |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/44 | 125 | 125 | C |
| 39D 863/45 | 125 | 160 | C |
| 39D 863/46 | 125 | 200 | C |
| 39D 863/51 | 160 | 50 | B |
| 39D 863/52 | 160 | 80 | B |
| 39D 863/53 | 160 | 100 | C |
| 39D 863/54 | 160 | 125 | C |
| 39D 863/55 | 160 | 160 | C |
| 39D 863/56 | 160 | 200 | C |
| 39D 863/111 | 50 | 250 | D |
| 39D 863/112 | 50 | 300 | D |
| 39D 863/113 | 50 | 350 | D |
| 39D 863/114 | 50 | 400 | D |
| 39D 863/115 | 50 | 450 | D |
| 39D 863/116 | 50 | 500 | D |
| 39D 863/121 | 80 | 250 | D |
| 39D 863/122 | 80 | 300 | D |
| 39D 863/123 | 80 | 350 | D |
| 39D 863/124 | 80 | 400 | D |
| 39D 863/125 | 80 | 450 | D |

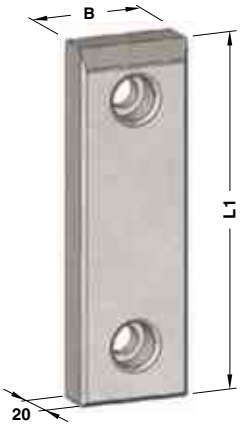
| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/126 | 80 | 500 | D |
| 39D 863/131 | 100 | 450 | D |
| 39D 863/132 | 100 | 500 | D |
| 39D 863/141 | 125 | 450 | D |
| 39D 863/142 | 125 | 500 | D |
| 39D 863/150 | 100 | 250 | D |
| 39D 863/151 | 100 | 300 | D |
| 39D 863/152 | 100 | 350 | D |
| 39D 863/153 | 100 | 400 | D |
| 39D 863/155 | 125 | 250 | D |
| 39D 863/156 | 125 | 300 | D |
| 39D 863/157 | 125 | 350 | D |
| 39D 863/158 | 125 | 400 | D |
| 39D 863/160 | 160 | 250 | D |
| 39D 863/161 | 160 | 300 | D |
| 39D 863/162 | 160 | 350 | D |
| 39D 863/163 | 160 | 400 | D |
| 39D 863/164 | 160 | 450 | D |
| 39D 863/165 | 160 | 500 | D |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK




FORM A



FORM B



FORM C

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 863/62 |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/62 | 50 | 80 | A |
| 39D 863/63 | 50 | 100 | A |
| 39D 863/64 | 50 | 125 | A |
| 39D 863/65 | 50 | 160 | A |
| 39D 863/66 | 50 | 200 | A |
| 39D 863/71 | 80 | 50 | B |
| 39D 863/72 | 80 | 80 | A |
| 39D 863/73 | 80 | 100 | A |
| 39D 863/74 | 80 | 125 | A |
| 39D 863/75 | 80 | 160 | A |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/76 | 80 | 200 | A |
| 39D 863/81 | 100 | 50 | B |
| 39D 863/82 | 100 | 80 | B |
| 39D 863/83 | 100 | 100 | A |
| 39D 863/84 | 100 | 125 | A |
| 39D 863/85 | 100 | 160 | A |
| 39D 863/86 | 100 | 200 | A |
| 39D 863/91 | 125 | 50 | B |
| 39D 863/92 | 125 | 80 | B |
| 39D 863/93 | 125 | 100 | C |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/94 | 125 | 125 | C |
| 39D 863/95 | 125 | 160 | C |
| 39D 863/96 | 125 | 200 | C |
| 39D 863/101 | 160 | 50 | B |
| 39D 863/102 | 160 | 80 | B |
| 39D 863/103 | 160 | 100 | C |
| 39D 863/104 | 160 | 125 | C |
| 39D 863/105 | 160 | 160 | C |
| 39D 863/106 | 160 | 200 | C |

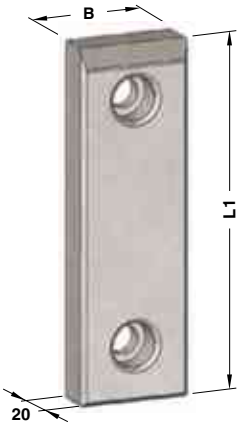
# SINTERED STEEL WEAR PLATE TYPE VDI 3357
# GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE TIP VDI 3357
# PIASTRA GUIDA IN ACCIAIO SINTERIZZATO TIPO VDI 3357

**Notes**

**Material:** Syntered metal

STOCK






FORM A



FORM B



FORM C

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 863/201 |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/200 | 50 | 80 | A |
| 39D 863/201 | 50 | 100 | A |
| 39D 863/202 | 50 | 125 | A |
| 39D 863/203 | 50 | 160 | A |
| 39D 863/204 | 50 | 200 | A |
| 39D 863/205 | 80 | 50 | B |
| 39D 863/206 | 80 | 80 | A |
| 39D 863/207 | 80 | 100 | A |
| 39D 863/208 | 80 | 125 | A |
| 39D 863/209 | 80 | 160 | A |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/210 | 80 | 200 | A |
| 39D 863/211 | 100 | 50 | B |
| 39D 863/212 | 100 | 80 | B |
| 39D 863/213 | 100 | 100 | A |
| 39D 863/214 | 100 | 125 | A |
| 39D 863/215 | 100 | 160 | A |
| 39D 863/216 | 100 | 200 | A |
| 39D 863/217 | 125 | 50 | B |
| 39D 863/218 | 125 | 80 | B |
| 39D 863/219 | 125 | 100 | C |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 863/220 | 125 | 125 | C |
| 39D 863/221 | 125 | 160 | C |
| 39D 863/222 | 125 | 200 | C |
| 39D 863/223 | 160 | 50 | B |
| 39D 863/224 | 160 | 80 | B |
| 39D 863/225 | 160 | 100 | C |
| 39D 863/226 | 160 | 125 | C |
| 39D 863/227 | 160 | 160 | C |
| 39D 863/228 | 160 | 200 | C |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

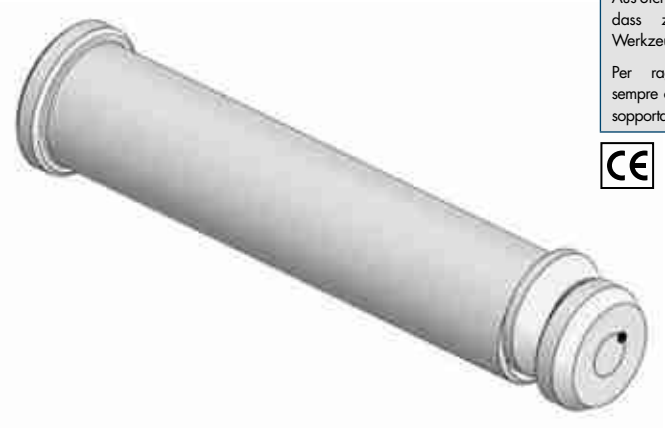
**WARNING - ACHTUNG - ATTENZIONE:**

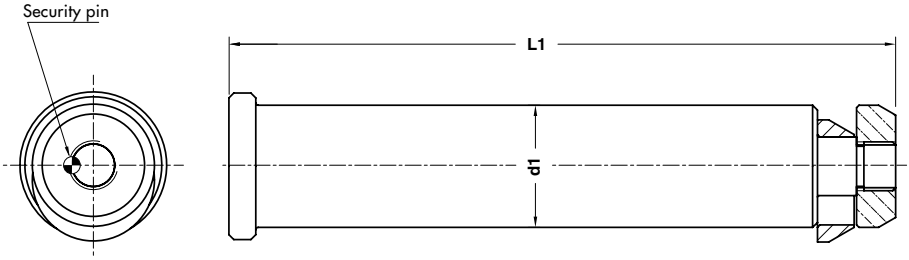
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

CE STOCK






ORDER EXAMPLE

| VW CODE |
|---|
| 39D 866/4 |

| VW CODE | Max load (kg) | Max die weight (kg) | L1 | d1 | Material |
|---|---|---|---|---|---|
| **39D 866/3** | 3200 | 6400 | 175 | 32 | CK45 |
| **39D 866/4** | 5000 | 10000 | 225 | 40 | CK45 |
| **39D 866/5** | 8000 | 16000 | 273 | 50 | CK45 |
| **39D 866/6** | 12500 | 25000 | 347 | 63 | CK45 |
| **39D 866/7** | 31500 | 63000 | 422 | 76 | 42CrMo4 + QT |
| **39D 866/25** | 8000 | 16000 | 221 | 50 | CK45 |
| **39D 866/26** | 12500 | 25000 | 277 | 63 | CK45 |

# LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO

Only for replacement, until exhaustion of stocks
Nur zur Reparatur, bis Bestand aufgebraucht ist
Solo per riparazione, fino ad esaurimento scorte

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

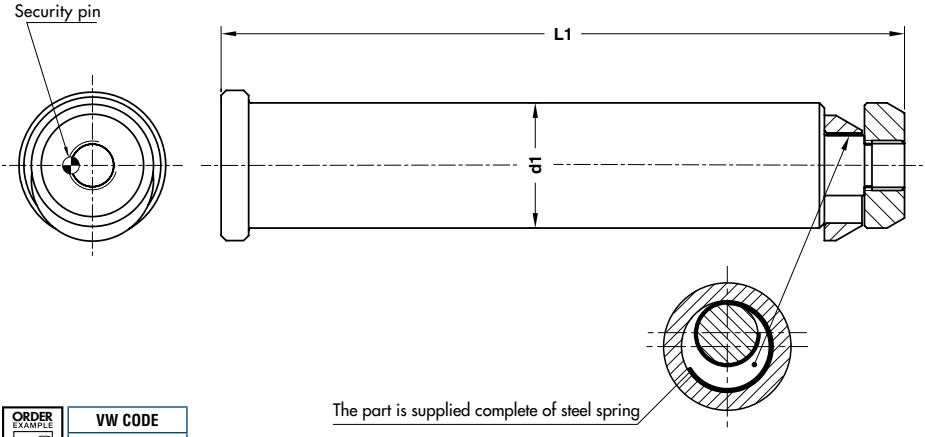
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

CE STOCK





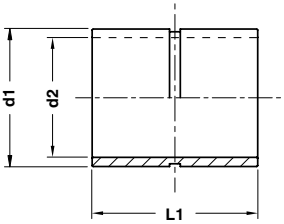

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 866/14 |

| VW CODE | Max load (kg) | Max die weight (kg) | d1 | L1 | Material |
|---|---|---|---|---|---|
| 39D 866/13 | 3200 | 6400 | 32 | 175 | CK45 |
| 39D 866/14 | 5000 | 10000 | 40 | 225 | CK45 |
| 39D 866/15 | 8000 | 16000 | 50 | 273 | CK45 |
| 39D 866/16 | 12500 | 25000 | 63 | 347 | CK45 |
| 39D 866/17 | 31500 | 63000 | 76 | 422 | 42CrMo4 + QT |

# BUSH FOR LIFTING PIN - BUCHSE FÜR TRAGBOLZEN - BOCCOLA PER PERNO DI SOLLEVAMENTO






**FORM A**



**FORM B**

| Notes |
|---|
| **Material:** St35 |

STOCK

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 867/11 |

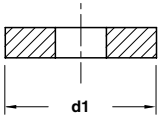
| VW CODE | d1 | d2 | FORM |
|---|---|---|---|
| 39D 867/10 | 44 | 34 | A |
| 39D 867/11 | 52 | 42 | A |
| 39D 867/12 | 62 | 52 | A |
| 39D 867/13 | 75 | 65 | A |
| 39D 867/14 | 100 | 78 | B |
| 39D 867/15 | 105 | 78 | B |

# 39D 869

OMCR

## WASHER - SCHEIBE - RONDELLA






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 869/10 |

| VW CODE | d1 |
|---|---|
| 39D 869/3 | 35 |
| 39D 869/4 | 40 |
| 39D 869/5 | 50 |
| 39D 869/6 | 65 |
| 39D 869/8 | 80 |
| 39D 869/10 | 100 |
| 39D 869/13 | 130 |

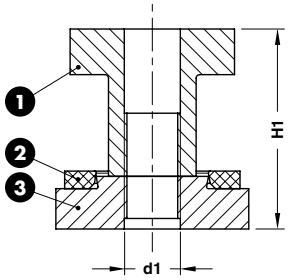
# 39D 870

OMCR

## AIR CYLINDER FIXING - VERSCHRAUBUNG - FISSAGGIO CILINDRO



FORM A




**Notes**

1. **Material:** CK45
2. **Material:** Elastomer 90 SH
3. **Material:** CK45

STOCK ...



FORM B

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 870/20 |

| VW CODE | d1 | H1 | FORM |
|---|---|---|---|
| 39D 870/16 | M16x1,5 | 57 | A |
| 39D 870/20 | M20x1,5 | 63 | A |
| 39D 870/27 | M27x2,0 | 65 | B |

## CAM ROLLER - ROLLENBOCK - SUPPORTO CON RULLO

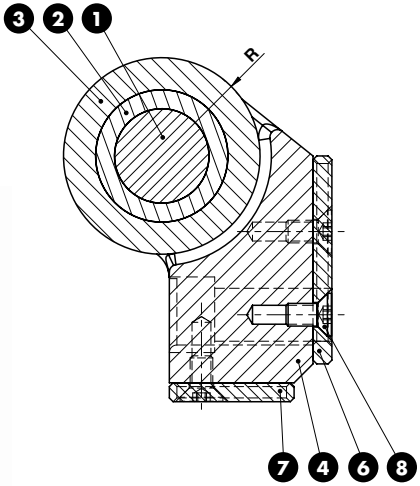
**Notes**

1. **Material:** 16MnCr5 **HRC:** 60÷62
2. **Material:** Bronze + Graphite **HB**>190
3. **Material:** X210Cr12 **HRC:** 60÷62
4. **Material:** 42CrMo4
5. E25 DIN 471
6. 7 **Material:** St37
8. DIN EN ISO M6x12 (x5)

STOCK ...



**39D 872/20**







**39D 872/21**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 872/21 |

| VW CODE |
|---|
| 39D 872/20 |
| 39D 872/21 |

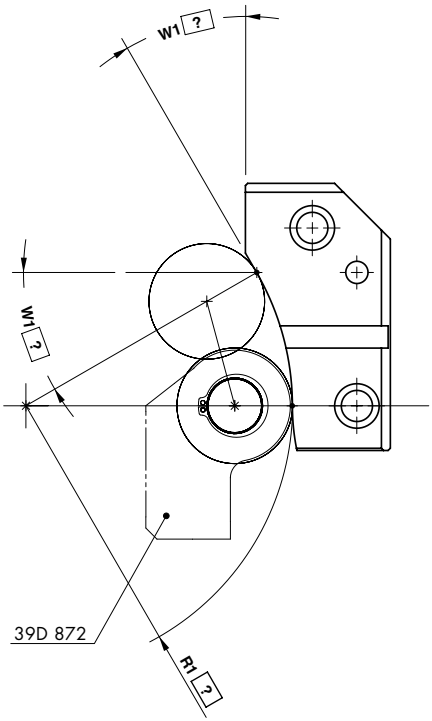
## ACCELERATION CAM - SCHIEBERVORBESCHLEUNIGUNG - CAMMA DI ACCELERAZIONE



| Notes |
|---|
| **Materials:** 90MnCrV8 - **HRC:** 60÷62 |

15





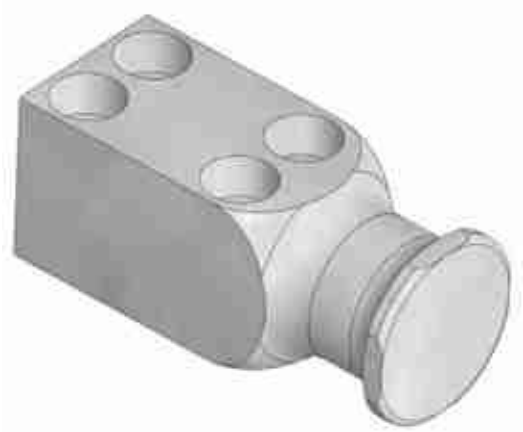

| ORDER EXAMPLE | VW CODE | W1? | R1? |
|---|---|---|---|
| | 39D 873/10 | W1=30° | R1=120 |

| VW CODE | SIDE |
|---|---|
| 39D 873/10 | RIGHT |
| 39D 873/11 | LEFT |

# LIFTING BRACKET VDI 3366 - TRAGZAPFEN VDI 3366 - STAFFA DI SOLLEVAMENTO VDI 3366



**FORM A**



**FORM B**

## Notes

**Material:** CK45 - 700÷800 N/mm²

Screws not included

CE STOCK

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 876/11 |

| VW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| 39D 876/10 | 320 | 640 | A |
| 39D 876/11 | 630 | 1260 | A |
| 39D 876/12 | 1250 | 2500 | A |
| 39D 876/13 | 2000 | 4000 | A |
| 39D 876/14 | 3200 | 6400 | A |

| VW CODE | Max load (kg) | Max die weight (kg) | FORM |
|---|---|---|---|
| 39D 876/15 | 5000 | 10000 | A |
| 39D 876/16 | 8000 | 16000 | B |
| 39D 876/17 | 12500 | 25000 | B |
| 39D 876/18 | 20000 | 40000 | B |
| | | | |

## 39D 882

OMCR

### AIR CYLINDER FIXING - ZIEHTEILHEBER - FISSAGGIO CILINDRO



39D882/2



39D882/3

STOCK

**Notes**

**Material:**
**39D882/2** - 34Cr4
**39D882/3** - CK45

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 882/2 |

| VW CODE |
|---|
| 39D 882/2 |
| 39D 882/3 |

## 39D 887

OMCR

### AIR CYLINDER ADAPTER - TEILHEBER - ADATTATORE PER CILINDRO



**Notes**

**Material:** CK45

STOCK

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 887/1 |

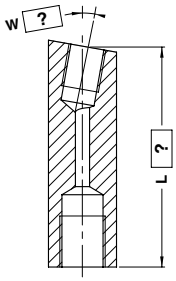
| VW CODE |
|---|
| 39D 887/1 |

## 39D 887

OMCR

### AIR CYLINDER ADAPTER - TEILHEBER - ADATTATORE PER CILINDRO






L max = 100

**Notes**

**Material:** CK45

| ORDER EXAMPLE | VW CODE | L=75 | W=5° |
|---|---|---|---|
| | 39D 887/2 | 75 | 5° |

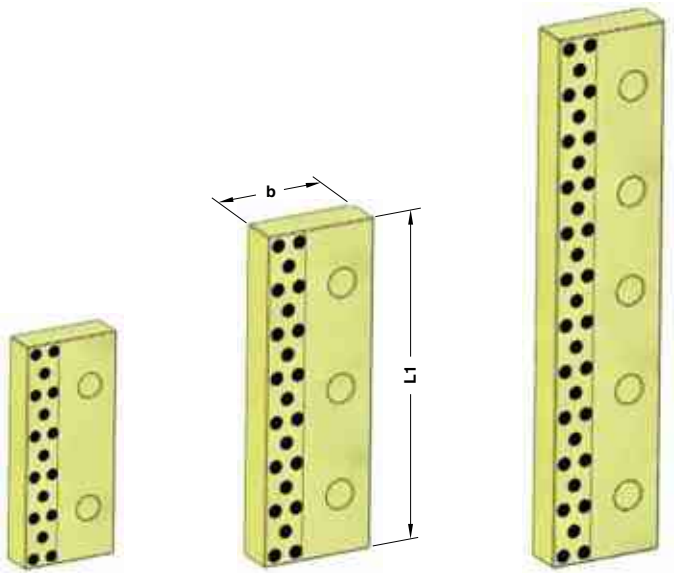
| VW CODE |
|---|
| 39D 887/2 |

# WEAR PLATE SELF-LUBRICATING
# DECKLEISTE BRONZE MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA AUTOLUBRIFICANTE

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




**FORM A** **FORM B** **FORM C**

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 890/26 |

| VW CODE | b | L1 | FORM | VW CODE | b | L1 | FORM |
|---|---|---|---|---|---|---|---|
| 39D 890/25 | 85 | 160 | A | 39D 890/16 | 125 | 200 | A |
| 39D 890/26 | 85 | 200 | A | 39D 890/17 | 125 | 250 | B |
| 39D 890/27 | 85 | 250 | B | 39D 890/18 | 125 | 300 | B |
| 39D 890/28 | 85 | 300 | B | 39D 890/19 | 125 | 350 | B |
| 39D 890/29 | 85 | 350 | B | 39D 890/20 | 125 | 400 | C |
| 39D 890/30 | 85 | 400 | C | 39D 890/21 | 125 | 450 | C |
| 39D 890/15 | 125 | 160 | A | 39D 890/22 | 125 | 500 | C |

# WEAR PLATE
# DECKLEISTE SCHIEBERFÜHRUNG
# PIASTRA GUIDA

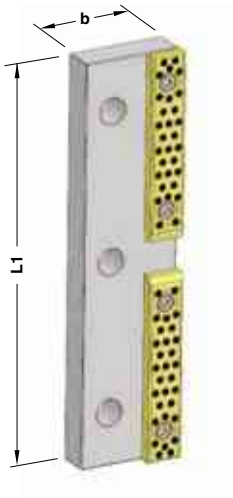
**Notes**

1. **Material:** CK45
2. 39D 954/11÷39
3. DIN 912 M8x16

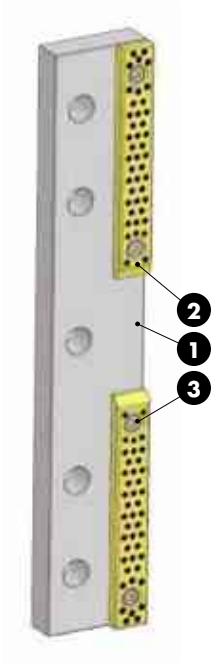




**FORM A**




**FORM B**




**FORM C**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 890/51 |

| VW CODE | b | L1 | FORM | VW CODE | b | L1 | FORM |
|---|---|---|---|---|---|---|---|
| 39D 890/50 | 85 | 160 | A | 39D 890/60 | 125 | 160 | A |
| 39D 890/51 | 85 | 200 | A | 39D 890/61 | 125 | 200 | A |
| 39D 890/52 | 85 | 250 | B | 39D 890/62 | 125 | 250 | B |
| 39D 890/53 | 85 | 300 | B | 39D 890/63 | 125 | 300 | B |
| 39D 890/54 | 85 | 350 | B | 39D 890/64 | 125 | 350 | B |
| 39D 890/55 | 85 | 400 | C | 39D 890/65 | 125 | 400 | C |
| 39D 890/56 | 85 | 450 | C | 39D 890/66 | 125 | 450 | C |
| 39D 890/57 | 85 | 500 | C | 39D 890/67 | 125 | 500 | C |

# SINTERED STEEL WEAR PLATE
# GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE
# PIASTRA GUIDA IN ACCIAIO SINTERIZZATO

**Notes**

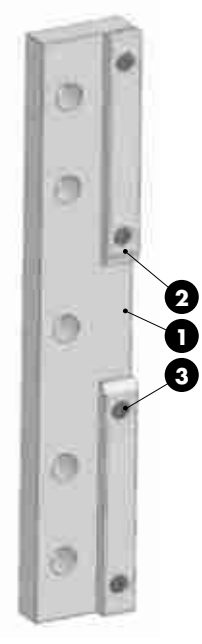
1. **Material:** CK45
2. 39D 954/71÷99
3. DIN 912 M8x16



**FORM A**




**FORM B**

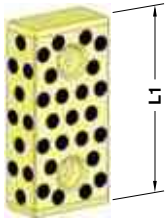



**FORM C**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 890/71 |

| VW CODE | b | L1 | FORM | VW CODE | b | L1 | FORM |
|---|---|---|---|---|---|---|---|
| 39D 890/70 | 85 | 160 | A | 39D 890/80 | 125 | 160 | A |
| 39D 890/71 | 85 | 200 | A | 39D 890/81 | 125 | 200 | A |
| 39D 890/72 | 85 | 250 | B | 39D 890/82 | 125 | 250 | B |
| 39D 890/73 | 85 | 300 | B | 39D 890/83 | 125 | 300 | B |
| 39D 890/74 | 85 | 350 | B | 39D 890/84 | 125 | 350 | B |
| 39D 890/75 | 85 | 400 | C | 39D 890/85 | 125 | 400 | C |
| 39D 890/76 | 85 | 450 | C | 39D 890/86 | 125 | 450 | C |
| 39D 890/77 | 85 | 500 | C | 39D 890/87 | 125 | 500 | C |

# GUIDE BAR SELF-LUBRICATING VDI 3357
# FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# LARDONE AUTOLUBRIFICANTE VDI 3357




FORM A



FORM B

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

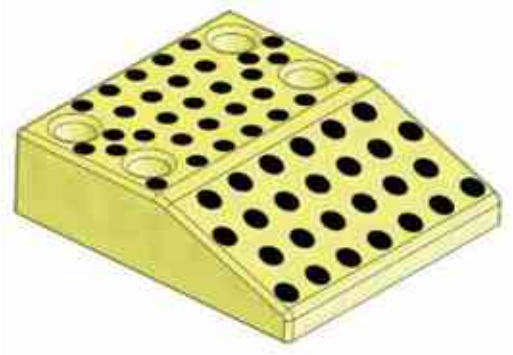
STOCK



| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 892/12 |

| VW CODE | L1 | FORM |
|---|---|---|
| 39D 892/10 | 125 | A |
| 39D 892/11 | 160 | A |
| 39D 892/12 | 200 | B |
| 39D 892/15 | 125 | A |
| 39D 892/16 | 160 | A |
| 39D 892/17 | 200 | B |

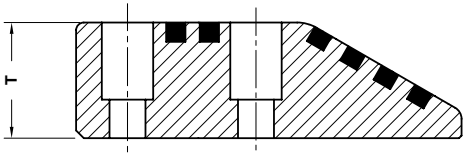
# CAM DWELL WEAR PLATE SELF-LUBRICATING VDI 3357
# ÜBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# CUNEO AUTOLUBRIFICANTE VDI 3357

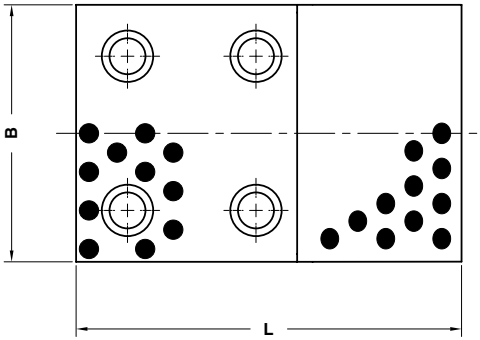


**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK ⟺




ORDER EXAMPLE

| VW CODE |
|---|
| 39D 894/131 |

| VW CODE | B | L | T |
|---|---|---|---|
| 39D 894/130 | 100 | 170 | 45 |
| 39D 894/131 | 125 | 170 | 45 |
| 39D 894/132 | 150 | 170 | 45 |
| 39D 894/134 | 100 | 150 | 45 |
| 39D 894/135 | 100 | 170 | 60 |

| VW CODE | B | L | T |
|---|---|---|---|
| 39D 894/136 | 125 | 150 | 45 |
| 39D 894/137 | 125 | 170 | 60 |
| 39D 894/138 | 150 | 150 | 45 |
| 39D 894/139 | 150 | 170 | 60 |

# CAM DWELL WEAR PLATE STEEL VDI 3357
# ÜBERLAUFKEILE STAHL VDI 3357
# CUNEO IN ACCIAIO VDI 3357

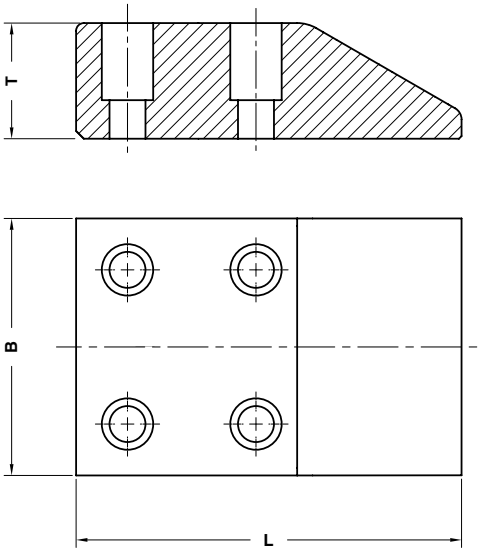


**Notes**

**Material:** X155CrVMo121KU
**HRC:** 58÷62

STOCK






ORDER EXAMPLE

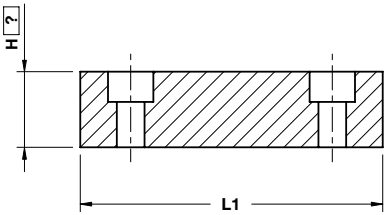
| VW CODE |
|---|
| 39D 894/151 |

| VW CODE | B | L | T |
|---|---|---|---|
| 39D 894/150 | 100 | 170 | 45 |
| 39D 894/151 | 125 | 170 | 45 |
| 39D 894/152 | 150 | 170 | 45 |
| 39D 894/154 | 100 | 150 | 45 |
| 39D 894/155 | 100 | 170 | 60 |

| VW CODE | B | L | T |
|---|---|---|---|
| 39D 894/156 | 125 | 150 | 45 |
| 39D 894/157 | 125 | 170 | 60 |
| 39D 894/158 | 150 | 150 | 45 |
| 39D 894/159 | 150 | 170 | 60 |

## BALANCE BLOCK - ENDDRUCKPLATTE - DISTANZIALE DI BATTUTA






H min. = 30

**Notes**

**Material:** St37
Only for replacement
Nur für Reparatur
Solo per riparazione

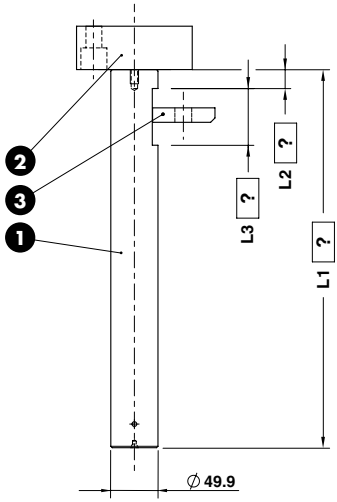
10

| ORDER EXAMPLE | VW CODE | H=35 |
|---|---|---|
| | 39D 895/11 | 35 |

| VW CODE | L1 |
|---|---|
| 39D 895/1 | 80 |
| 39D 895/2 | 120 |
| 39D 895/3 | 200 |
| 39D 895/11 | 80 |
| 39D 895/12 | 120 |
| 39D 895/13 | 200 |

## COMPENSATION PIN GROUP
## AUSGLEICHSDRUCKBOLZEN
## GRUPPO PERNO DI COMPENSAZIONE






**Notes**

1 2 3

**Material:** 16MnCr5 - **HRC:** 60÷64

| ORDER EXAMPLE | VW CODE | L1=400 | L2=20 | L3=60 |
|---|---|---|---|---|
| | 39D 896/1 | 400 | 20 | 60 |

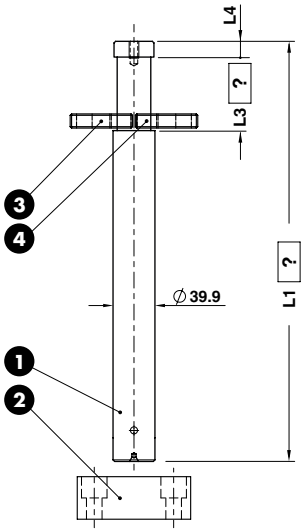
| VW CODE |
|---|
| 39D 896/1 |



39D 896 OMCR

## COMPENSATION PIN GROUP
## AUSGLEICHSDRUCKBOLZEN
## GRUPPO PERNO DI COMPENSAZIONE






**Notes**

1 2 3 4

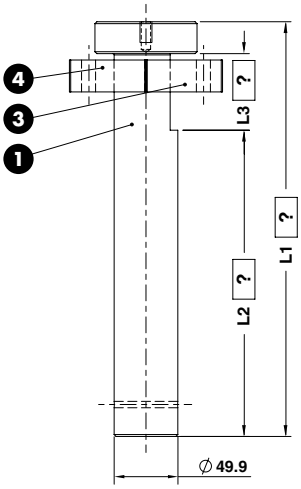
**Material:** 16MnCr5 - **HRC:** 60÷64

| ORDER EXAMPLE | VW CODE | L1=300 | L3=60 | L4=45 |
|---|---|---|---|---|
| | 39D 896/2 | 300 | 60 | 45 |

| VW CODE |
|---|
| 39D 896/2 |

## COMPENSATION PIN GROUP
## AUSGLEICHSDRUCKBOLZEN
## GRUPPO PERNO DI COMPENSAZIONE






**Notes**

1 3 4

**Material:** 16MnCr5 - **HRC:** 60÷64

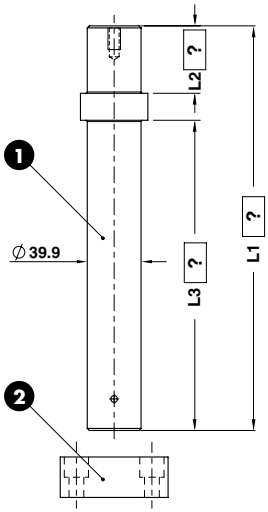
| ORDER EXAMPLE | VW CODE | L1=325 | L2=240 | L3=60 |
|---|---|---|---|---|
| | 39D 896/3 | 325 | 240 | 60 |

| VW CODE |
|---|
| 39D 896/3 |

39D 896

## COMPENSATION PIN GROUP
## AUSGLEICHSDRUCKBOLZEN
## GRUPPO PERNO DI COMPENSAZIONE






**Notes**

1 2

**Material:** 16MnCr5 - **HRC:** 60÷64

| ORDER EXAMPLE | VW CODE | L1=300 | L2=50 | L3=230 |
|---|---|---|---|---|
| | 39D 896/4 | 300 | 50 | 230 |

| VW CODE |
|---|
| 39D 896/4 |

## 39D 896

OMCR

### BACKING PLATE - DISTANZKAPPE - REAZIONE PER CILINDRO



**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷64

STOCK

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 896/1-02 |

| VW CODE |
|---|
| 39D 896/1-02 |

## 39D 896

OMCR

### RETAINER - SICHERUNGSPLATTE - PIASTRINA



**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷64

STOCK

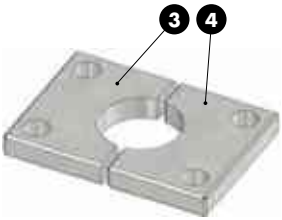
| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 896/1-03 |

| VW CODE |
|---|
| 39D 896/1-03 |

## 39D 896

OMCR

### RETAINER - SICHERUNGSPLATTE - PIASTRINA




**Notes**

3 4

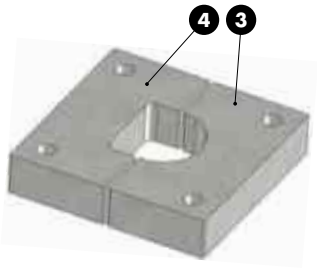
**Material:** 16MnCr5 - **HRC:** 60÷64

STOCK

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 896/2-04 |

| VW CODE |
|---|
| 39D 896/2-03 |
| 39D 896/2-04 |

## RETAINER - SICHERUNGSPLATTE - PIASTRINA




| Notes |
| --- |
| 3 4<br>**Material:** 16MnCr5 - **HRC:** 60÷64 |

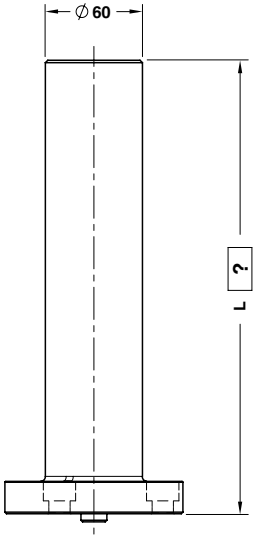
STOCK

| ORDER EXAMPLE | VW CODE |
| --- | --- |
| | 39D 896/3-04 |

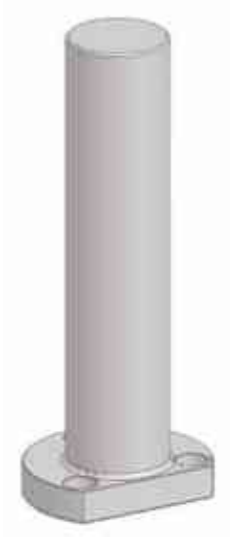
| VW CODE |
| --- |
| 39D 896/3-03 |
| 39D 896/3-04 |

## AIR PIN - UNTERLUFTBOLZEN - CANDELA






**39D 951/1**



**39D 951/2**

⚠

L max = 450

**Notes**

**Material:** CK45 - 800÷1000 N/mm²

Only for replacement
Nur für Reparatur
Solo per riparazione

10

| ORDER EXAMPLE | VW CODE | L=200 |
|---|---|---|
| | 39D 951/1 | 200 |

| VW CODE |
|---|
| 39D 951/1 |
| 39D 951/2 |

## AIR PIN - UNTERLUFTBOLZEN - CANDELA

L max = 450

**Notes**

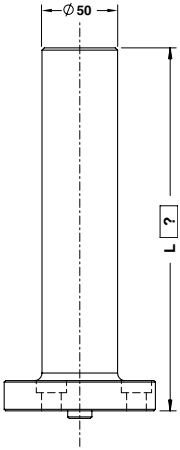
**Material:** CK45 - 800÷1000 N/mm²

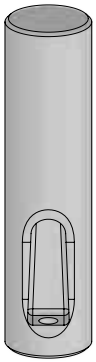


**39D 951/11**

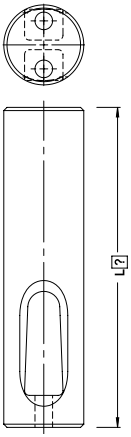


**39D 951/12**



**39D 951/22**




ORDER EXAMPLE

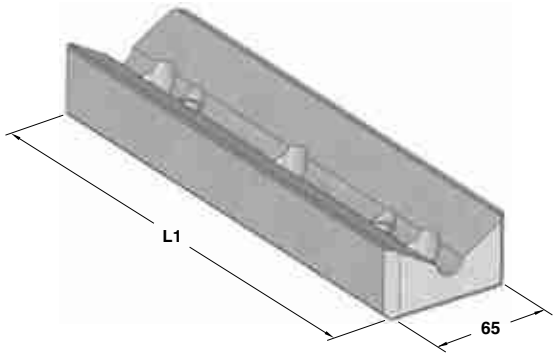
| VW CODE | L=200 |
|---|---|
| 39D 951/12 | 200 |

| VW CODE |
|---|
| 39D 951/11 |
| 39D 951/12 |
| 39D 951/22 |

# 39D 952

OMCR

**"V" DRIVER STEEL VDI 3357**
**PRISMENFÜHRUNG STAHL VDI 3357**
**GUIDA A "V" IN ACCIAIO VDI 3357**




**Notes**

**Material:** CK45 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

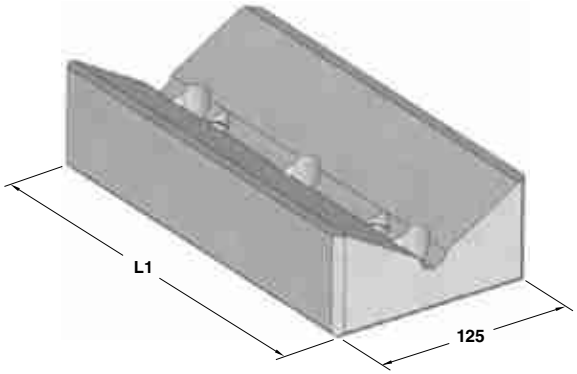
| VW CODE |
|---|
| 39D 952/12 |

| VW CODE | L1 |
|---|---|
| 39D 952/10 | 150 |
| 39D 952/11 | 200 |
| 39D 952/12 | 250 |
| 39D 952/13 | 300 |

39D 952

OMCR

**"V" DRIVER STEEL VDI 3357**
**PRISMENFÜHRUNG STAHL VDI 3357**
**GUIDA A "V" IN ACCIAIO VDI 3357**




**Notes**

**Material:** CK45 - **HRC:** 58÷60

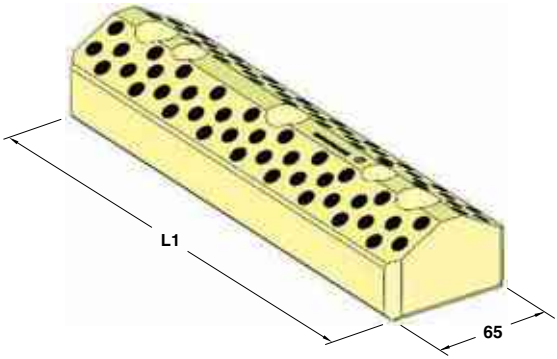
STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 952/23 |

| VW CODE | L1 |
|---|---|
| 39D 952/20 | 150 |
| 39D 952/21 | 200 |
| 39D 952/22 | 250 |
| 39D 952/23 | 300 |

## "V" DRIVER SELF-LUBRICATING VDI 3357
## PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
## GUIDA A "V" AUTOLUBRIFICANTE VDI 3357




**Notes**

**Material:** Bronze + Graphite
**HB** >190

STOCK

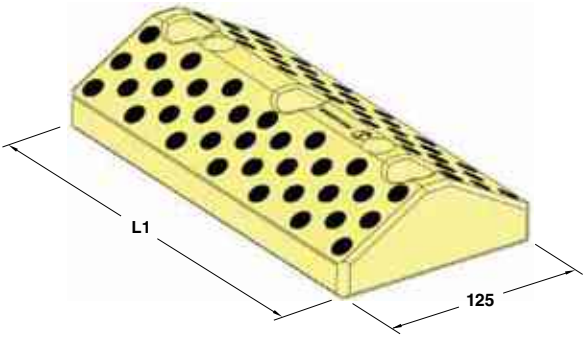
ORDER EXAMPLE

| VW CODE |
|---|
| 39D 952/43 |

| VW CODE | L1 |
|---|---|
| 39D 952/40 | 150 |
| 39D 952/41 | 200 |
| 39D 952/42 | 250 |
| 39D 952/43 | 300 |

39D 952

## "V" DRIVER SELF-LUBRICATING VDI 3357
## PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
## GUIDA A "V" AUTOLUBRIFICANTE VDI 3357




**Notes**

**Material:** Bronze + Graphite
**HB** >190

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 952/52 |

| VW CODE | L1 |
|---|---|
| 39D 952/50 | 150 |
| 39D 952/51 | 200 |
| 39D 952/52 | 250 |
| 39D 952/53 | 300 |

# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357



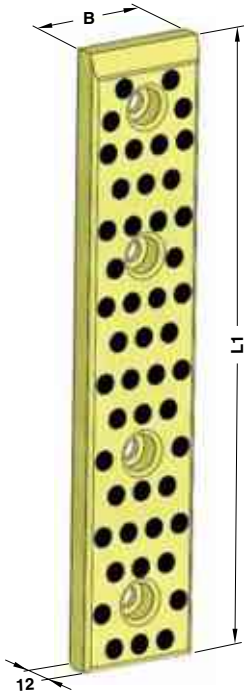
**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK



FORM A




FORM B

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 954/12 |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 954/11 | 30 | 80 | A |
| 39D 954/12 | 30 | 100 | A |
| 39D 954/13 | 30 | 125 | A |
| 39D 954/14 | 30 | 160 | A |
| 39D 954/15 | 30 | 200 | A |
| 39D 954/16 | 40 | 80 | A |
| 39D 954/17 | 40 | 100 | A |
| 39D 954/18 | 40 | 125 | A |
| 39D 954/19 | 40 | 160 | A |
| 39D 954/20 | 40 | 200 | A |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 954/21 | 50 | 80 | A |
| 39D 954/22 | 50 | 100 | A |
| 39D 954/23 | 50 | 125 | A |
| 39D 954/24 | 50 | 160 | A |
| 39D 954/25 | 50 | 200 | A |
| 39D 954/26 | 60 | 80 | A |
| 39D 954/27 | 60 | 100 | A |
| 39D 954/28 | 60 | 125 | A |
| 39D 954/29 | 60 | 160 | A |
| 39D 954/30 | 60 | 200 | A |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 954/31 | 80 | 80 | A |
| 39D 954/32 | 80 | 100 | A |
| 39D 954/33 | 80 | 125 | A |
| 39D 954/34 | 80 | 160 | A |
| 39D 954/35 | 80 | 200 | A |
| 39D 954/36 | 50 | 250 | B |
| 39D 954/37 | 50 | 300 | B |
| 39D 954/38 | 50 | 350 | B |
| 39D 954/39 | 50 | 400 | B |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357

**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60

STOCK




ORDER EXAMPLE

| VW CODE |
|---|
| 39D 954/42 |

| VW CODE | B | L1 | VW CODE | B | L1 |
|---|---|---|---|---|---|
| 39D 954/41 | 30 | 80 | 39D 954/54 | 50 | 160 |
| 39D 954/42 | 30 | 100 | 39D 954/55 | 50 | 200 |
| 39D 954/43 | 30 | 125 | 39D 954/56 | 60 | 80 |
| 39D 954/44 | 30 | 160 | 39D 954/57 | 60 | 100 |
| 39D 954/45 | 30 | 200 | 39D 954/58 | 60 | 125 |
| 39D 954/46 | 40 | 80 | 39D 954/59 | 60 | 160 |
| 39D 954/47 | 40 | 100 | 39D 954/60 | 60 | 200 |
| 39D 954/48 | 40 | 125 | 39D 954/61 | 80 | 80 |
| 39D 954/49 | 40 | 160 | 39D 954/62 | 80 | 100 |
| 39D 954/50 | 40 | 200 | 39D 954/63 | 80 | 125 |
| 39D 954/51 | 50 | 80 | 39D 954/64 | 80 | 160 |
| 39D 954/52 | 50 | 100 | 39D 954/65 | 80 | 200 |
| 39D 954/53 | 50 | 125 | | | |

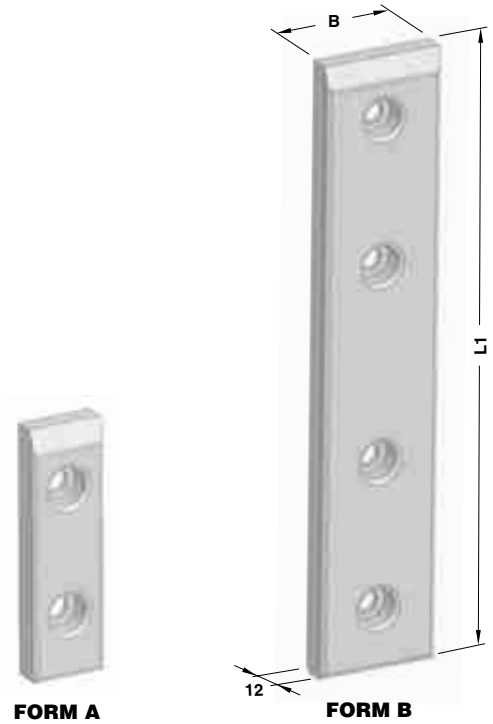
# SINTERED STEEL WEAR PLATE TYPE VDI 3357
# GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE TIP VDI 3357
# PIASTRA GUIDA IN ACCIAIO SINTERIZZATO TIPO VDI 3357

**Notes**

**Material:** Syntered metal

STOCK






**FORM A** **FORM B**

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 954/72 |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 954/71 | 30 | 80 | A |
| 39D 954/72 | 30 | 100 | A |
| 39D 954/73 | 30 | 125 | A |
| 39D 954/74 | 30 | 160 | A |
| 39D 954/75 | 30 | 200 | A |
| 39D 954/76 | 40 | 80 | A |
| 39D 954/77 | 40 | 100 | A |
| 39D 954/78 | 40 | 125 | A |
| 39D 954/79 | 40 | 160 | A |
| 39D 954/80 | 40 | 200 | A |

| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 954/81 | 50 | 80 | A |
| 39D 954/82 | 50 | 100 | A |
| 39D 954/83 | 50 | 125 | A |
| 39D 954/84 | 50 | 160 | A |
| 39D 954/85 | 50 | 200 | A |
| 39D 954/86 | 60 | 80 | A |
| 39D 954/87 | 60 | 100 | A |
| 39D 954/88 | 60 | 125 | A |
| 39D 954/89 | 60 | 160 | A |
| 39D 954/90 | 60 | 200 | A |

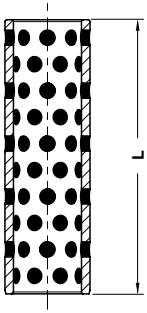
| VW CODE | B | L1 | FORM |
|---|---|---|---|
| 39D 954/91 | 80 | 80 | A |
| 39D 954/92 | 80 | 100 | A |
| 39D 954/93 | 80 | 125 | A |
| 39D 954/94 | 80 | 160 | A |
| 39D 954/95 | 80 | 200 | A |
| 39D 954/96 | 50 | 250 | B |
| 39D 954/97 | 50 | 300 | B |
| 39D 954/98 | 50 | 350 | B |
| 39D 954/99 | 50 | 400 | B |

# 39D 956

OMCR

## GUIDE BUSH - FÜHRUNGSBUCHSE - BOCCOLA AUTOLUBRIFICANTE






**Notes**

**Material:** Bronze + Graphite
**HB** >190

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 956/1 |

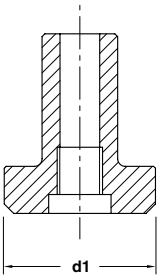
| VW CODE | L |
|---|---|
| 39D 956/1 | 115 |
| 39D 956/2 | 145 |
| 39D 956/3 | 170 |

# 39D 958

OMCR

## STOP PIN - HALTEBOLZEN - PERNO DI ARRESTO






**Notes**

**Material:** 42CrMo4
Only for replacement
Nur für Reparatur
Solo per riparazione

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 958/2 |

| VW CODE | d1 |
|---|---|
| 39D 958/1 | 100 |
| 39D 958/2 | 80 |

OMCR

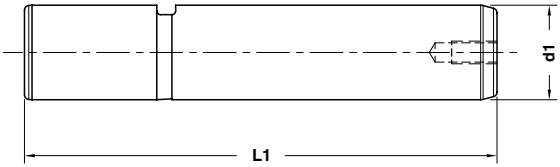
## GUIDE POST DIN 9833 TYPE
## FÜHRUNGSSÄULE DIN 9833 TYP
## COLONNA GUIDA TIPO DIN 9833

**Notes**

**Material:** 16MnCr5
**HRC:** 60÷62

10







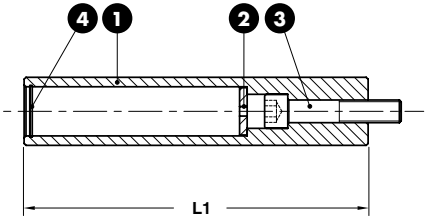

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 969/47 |

| VW CODE | d1 | L1 | VW CODE | d1 | L1 |
|---|---|---|---|---|---|
| 39D 969/13 | 25 | 125 | 39D 969/45 | 50 | 250 |
| 39D 969/14 | 25 | 140 | 39D 969/46 | 50 | 280 |
| 39D 969/15 | 25 | 160 | 39D 969/47 | 50 | 315 |
| 39D 969/16 | 25 | 180 | 39D 969/48 | 50 | 355 |
| 39D 969/23 | 32 | 140 | 39D 969/53 | 63 | 224 |
| 39D 969/24 | 32 | 160 | 39D 969/54 | 63 | 250 |
| 39D 969/25 | 32 | 180 | 39D 969/55 | 63 | 280 |
| 39D 969/26 | 32 | 200 | 39D 969/56 | 63 | 315 |
| 39D 969/32 | 40 | 160 | 39D 969/57 | 63 | 355 |
| 39D 969/33 | 40 | 180 | 39D 969/58 | 63 | 400 |
| 39D 969/34 | 40 | 200 | 39D 969/64 | 80 | 250 |
| 39D 969/35 | 40 | 224 | 39D 969/65 | 80 | 280 |
| 39D 969/36 | 40 | 250 | 39D 969/66 | 80 | 315 |
| 39D 969/37 | 40 | 280 | 39D 969/67 | 80 | 355 |
| 39D 969/43 | 50 | 200 | 39D 969/68 | 80 | 400 |
| 39D 969/44 | 50 | 224 | | | |

## LIFTER - FEDERBOLZEN - SOLLEVATORE






**Notes**

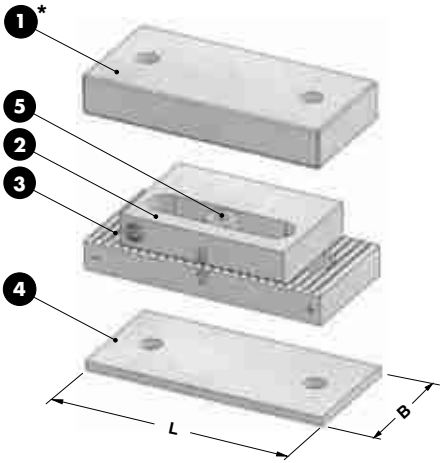
1. **Material:** CK45 - **HRC:** 60÷62
2. **Material:** 90MnCrV8 **HRC:** 54÷60
3. M10x60 DIN 912
4. Seeger ring DIN 472

STOCK ...

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 972/11 |

| VW CODE | L1 |
|---|---|
| 39D 972/11 | 182 |
| 39D 972/12 | 200 |
| 39D 972/13 | 220 |

## SPACER PLATE TOOTHED - DISTANZPLATTE GEZAHNT - TASSELLO DI COMPENSAZIONE




**Notes**

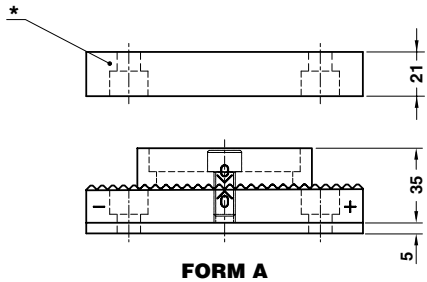
1 2 3
**Material:** 90MnCrV8 - **HRC:** 58÷60

4 **Material:** X155CrVMo12

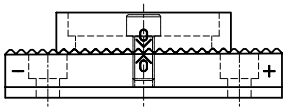
5 DIN 912

STOCK ...

* Pressure plate only in FORM A
Druckplatte nur bei Form A enthalten
Piastra di reazione solo in FORM A




**FORM A**




**FORM B**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39D 976/11 |

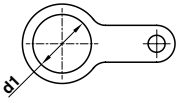
| VW CODE | L | B | FORM |
|---|---|---|---|
| 39D 976/10 | 130 | 60 | A |
| 39D 976/11 | 160 | 80 | A |
| 39D 976/20 | 130 | 60 | B |
| 39D 976/21 | 160 | 80 | B |

## 39D 993

OMCR

### PLATE FOR SENSOR - HALTERUNG - PIASTRINA PORTASENSORE






**Notes**

**Material:** St37

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 993/1 |

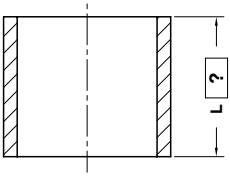
| VW CODE | d1 |
|---|---|
| 39D 993/1 | 19 |
| 39D 993/2 | 31 |

## 39D 995

OMCR

### SPACER - DISTANZSTÜCK - DISTANZIALE






**Notes**

**Material:** CK45

10

ORDER EXAMPLE

| VW CODE | L=37 |
|---|---|
| 39D 995/4 | 37 |

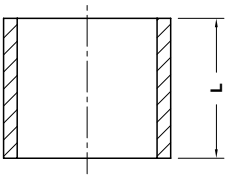
| VW CODE |
|---|
| 39D 995/4 |

## 39D 995

OMCR

### SPACER - DISTANZSTÜCK - DISTANZIALE






**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 995/4 L24 |

| VW CODE | L | VW CODE | L | VW CODE | L | VW CODE | L | VW CODE | L |
|---|---|---|---|---|---|---|---|---|---|
| 39D 995/4 L17 | 17 | 39D 995/4 L28 | 28 | 39D 995/4 L37 | 37 | 39D 995/4 L47 | 47 | 39D 995/4 L57 | 57 |
| 39D 995/4 L24 | 24 | 39D 995/4 L29 | 29 | 39D 995/4 L38 | 38 | 39D 995/4 L48 | 48 | 39D 995/4 L57,5 | 57,5 |
| 39D 995/4 L25 | 25 | 39D 995/4 L32 | 32 | 39D 995/4 L41 | 41 | 39D 995/4 L49 | 49 | 39D 995/4 L77 | 77 |
| 39D 995/4 L27 | 27 | 39D 995/4 L33 | 33 | 39D 995/4 L42 | 42 | 39D 995/4 L51 | 51 | | |

## WASHER/STOP BLOCK - SCHEIBE/HALTEPLATTE - RONDELLA/TASSELLO



39D 995/5



39D 995/6



39D 995/8

**Notes**

**Material:**
**39D 995/5** - CK45
**39D 995/6** - 16MnCr5 - **HRC:** 60÷62
**39D 995/8** - Polyethylen PE-H

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 995/6 |

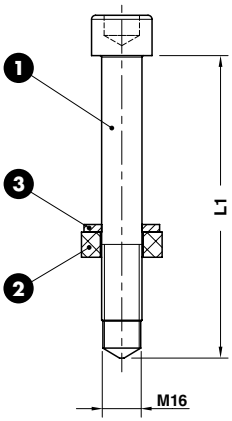
| VW CODE |
|---|
| 39D 995/5 |
| 39D 995/6 |
| 39D 995/8 |



39D 995

## RETAINER PIN - ZIEHTEILHEBER - PERNO CON RONDELLA






**Notes**

1. DIN 912
2. **Material:** Nylatron GSM P30
3. **Material:** STEEL

STOCK ...

ORDER EXAMPLE

| VW CODE |
|---|
| 39D 995/14 |

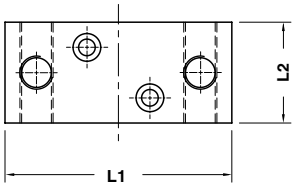
| VW CODE | L1 |
|---|---|
| 39D 995/12 | 120 |
| 39D 995/14 | 135 |
| 39D 995/15 | 150 |
| 39D 995/16 | 160 |

## 39D 1392

OMCR

### DISTRIBUTOR - VERTEILERBLOCKE - DISTRIBUTORE






STOCK

**Notes**

**Material:** Ms65

ORDER EXAMPLE

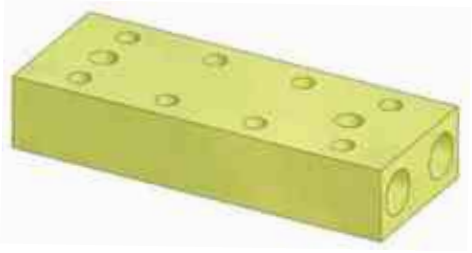
| VW CODE |
|---|
| 39D 1392/1 |

| VW CODE | L1 | L2 |
|---|---|---|
| 39D 1392/1 | 90 | 40 |
| 39D 1392/2 | 100 | 45 |
| 39D 1392/3 | 110 | 50 |
| 39D 1392/4 | 120 | 60 |

## 39D 1430

OMCR

### DISTRIBUTOR - VERTEILERBLOCKE - DISTRIBUTORE



**Notes**

**Material:** Ms65

STOCK

ORDER EXAMPLE

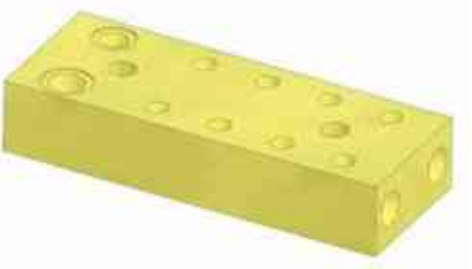
| VW CODE |
|---|
| 39D 1430/1 |

| VW CODE |
|---|
| 39D 1430/1 |

## 39D 1497

OMCR

### DISTRIBUTOR - VERTEILERBLOCKE - DISTRIBUTORE



**Notes**

**Material:** Ms65

STOCK

ORDER EXAMPLE

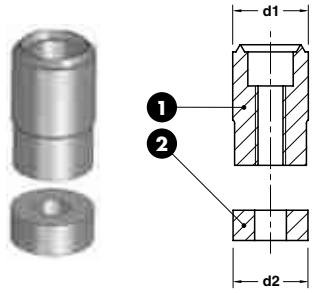
| VW CODE |
|---|
| 39D 1497/2 |

| VW CODE | CYLINDER DIAMETER |
|---|---|
| 39D 1497/1 | ≤63 |
| 39D 1497/2 | >63 |

## 39V 863

OMCR

### VISUAL LOCATOR SETTING PUNCH
### STEMPEL F. ENTGASUNGSNOPPEN
### PUNZONE DI VISUALIZZAZIONE




**Notes**

1. **Material:** X205Cr12KU
   **HRC:** 60÷62
2. **Material:** X205Cr12KU

STOCK ...

ORDER EXAMPLE

| VW CODE |
|---|
| 39V 863/10 |

| VW CODE | d1 | d2 |
|---|---|---|
| 39V 863/10 | 10 | 9,7 |
| 39V 863/13 | 13 | 12 |

## 39V 1071

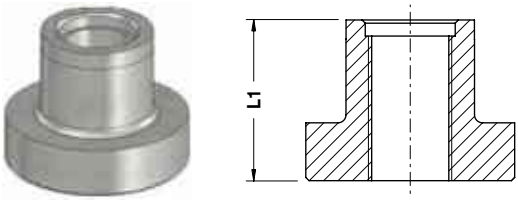
OMCR

### THREADED BUSH - GENWINDEBUCHSE - BOCCOLA FILETTATA

**Notes**

**Material:** CK45

STOCK




ORDER EXAMPLE

| VW CODE |
|---|
| 39V 1071 |

| VW CODE | L1 |
|---|---|
| 39V 1071/1 | 50 |
| 39V 1071/2 | 87 |

## GIB VDI 3387 - FÜHRUNGSLASCHE VDI 3387 - GUIDA VDI 3387

**Notes**

**Material:** CK45 + Graphite
**HRC:** 58÷60

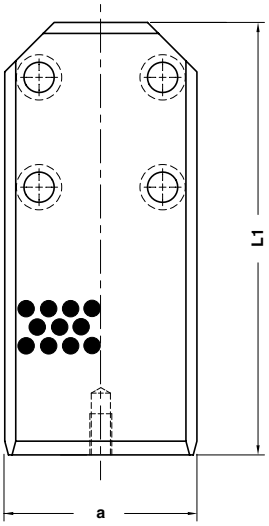
STOCK



FORM A




FORM B



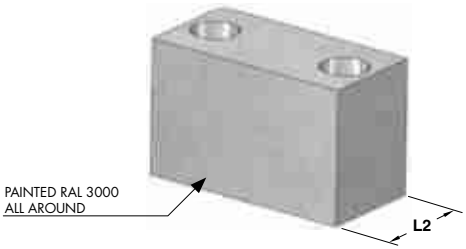

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1159/25 |

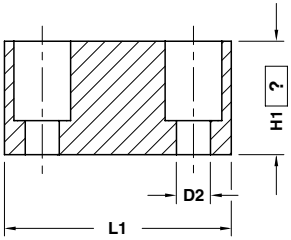
| VW CODE | a | b | L1 | FORM |
|---|---|---|---|---|
| 39V 1159/24 | 112 | 45 | 250 | A |
| 39V 1159/25 | 140 | 45 | 315 | B |
| 39V 1159/32 | 190 | 56 | 400 | B |
| 39V 1159/35 | 240 | 56 | 500 | B |
| 39V 1159/36 | 240 | 56 | 630 | B |
| 39V 1159/37 | 140 | 45 | 400 | B |
| 39V 1159/38 | 140 | 56 | 400 | B |

# 39V 1162

OMCR

## STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE




**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione

10

| ORDER EXAMPLE | VW CODE | H1=60 |
|---|---|---|
| | 39V 1162/3 | 60 |

| VW CODE | D2 | L1 | L2 |
|---|---|---|---|
| 39V 1162/1 | 9 | 60 | 40 |
| 39V 1162/2 | 11 | 80 | 40 |
| 39V 1162/3 | 14 | 100 | 40 |
| 39V 1162/4 | 14 | 100 | 50 |
| 39V 1162/5 | 14 | 120 | 60 |
| 39V 1162/6 | 14 | 150 | 80 |
| 39V 1162/7 | 14 | 160 | 100 |
| 39V 1162/20 | 18 | 150 | 80 |
| 39V 1162/21 | 18 | 160 | 100 |

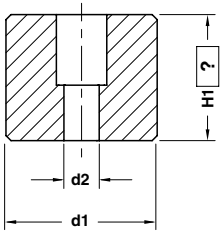
Standard VW/Audi


# 39V 1162

OMCR

## STOP BLOCK - ABSTANDSBLOCK - DISTANZIALE





**Notes**

**Material:** CK45

Only for replacement
Nur für Reparatur
Solo per riparazione

10


| ORDER EXAMPLE | VW CODE | H1=60 |
|---|---|---|
| | 39V 1162/15 | 60 |

| VW CODE | d1 | d2 |
|---|---|---|
| 39V 1162/14 | 60 | 14 |
| 39V 1162/26 | 80 | 18 |
| 39V 1162/15 | 80 | 14 |
| 39V 1162/17 | 120 | 22 |
| 39V 1162/18 | 150 | 22 |
| 39V 1162/25 | 100 | 18 |

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO

**Notes**

1 2 **Material:** 16MnCr5
**HRC:** 58÷60

3 **Material:** CK45

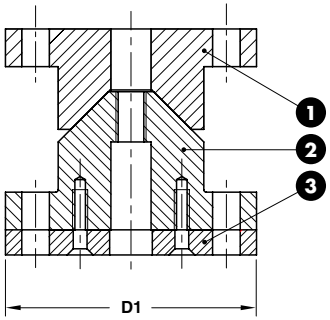
STOCK ... 



**FORM A**



**FORM B**






**FORM C**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1168/16 |

| VW CODE | FORM | D1 |
|---|---|---|
| 39V 1168/10 | A | 100 |
| 39V 1168/12 | A | 120 |
| 39V 1168/14 | B | 100 |
| 39V 1168/16 | B | 120 |
| 39V 1168/18 | C | 100 |
| 39V 1168/20 | C | 120 |

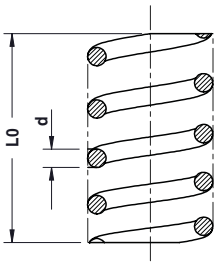
## COIL SPRING - SCHRAUBENFEDERN - MOLLA A FILO

| Notes |
|---|
| **Material:** 50CrV4 |

STOCK








ORDER EXAMPLE

| VW CODE |
|---|
| 39V 1176/2 |

| VW CODE | d | axb | L0 |
|---|---|---|---|
| 39V 1176/1 | 1,00 | - | 16,5 |
| 39V 1176/2 | 1,00 | - | 34,5 |
| 39V 1176/3 | 1,25 | - | 57,5 |
| 39V 1176/4 | 1,50 | - | 24,5 |
| 39V 1176/6 | 1,50 | - | 81,0 |
| 39V 1176/7 | 2,00 | - | 20,0 |
| 39V 1176/8 | 2,10 | - | 110,0 |
| 39V 1176/9 | 1,50 | - | 52,5 |
| 39V 1176/10 | 2,20 | - | 30,5 |

| VW CODE | d | axb | L0 |
|---|---|---|---|
| 39V 1176/16 | 1,75 | - | 40,0 |
| 39V 1176/17 | 2,00 | - | 50,0 |
| 39V 1176/18 | 2,00 | - | 43,5 |
| 39V 1176/19 | 2,00 | - | 77,5 |
| 39V 1176/20 | 2,00 | - | 200,0 |
| 39V 1176/21 | 3,00 | - | 39,5 |
| 39V 1176/22 | 3,00 | - | 150,0 |
| 39V 1176/23 | 4,00 | - | 65,0 |
| 39V 1176/27 | 4,00 | - | 125,0 |



INDEX

## STRIPPER FOR BLANKING DIES - ABSTREIFER FÜR PLATINENSCHNITTE - ESTRATTORE PER STAMPI



| Notes |
| --- |
| **Material:** Elastomer 70 SH |

STOCK

| ORDER EXAMPLE | VW CODE |
| --- | --- |
| | 39V 1178/17 |

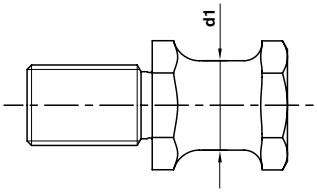
| VW CODE |
| --- |
| 39V 1178/15 |
| 39V 1178/16 |
| 39V 1178/17 |

# 39V 1199

OMCR

## LIFTING PIN VDI 3366 - TRAGSCHRAUBE VDI 3366 - PERNO DI SOLLEVAMENTO VDI 3366






Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragschrauben das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**Notes**

**Material:** CK45 - 700÷800 N/mm²

ORDER EXAMPLE

| VW CODE |
|---|
| 39V 1199/3 |

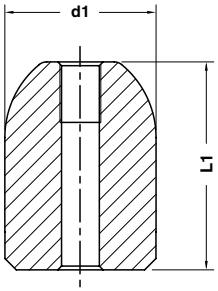
| VW CODE | Max load (kg) | Max die weight (kg) | d1 | VW CODE | Max load (kg) | Max die weight (kg) | d1 |
|---|---|---|---|---|---|---|---|
| 39V 1199/1 | 320 | 640 | 16 | 39V 1199/4 | 1500 | 3000 | 32 |
| 39V 1199/2 | 500 | 1000 | 20 | 39V 1199/5 | 2500 | 5000 | 40 |
| 39V 1199/3 | 1000 | 2000 | 25 | | | | |

# 39V 1205

OMCR

## LOCATING PIN - ZENTRIERBOLZEN - CENTRAGGIO






**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷62

STOCK

ORDER EXAMPLE

| VW CODE |
|---|
| 39V 1205/3 |

| VW CODE | d1 | L1 |
|---|---|---|
| 39V 1205/1 | 22 | 45 |
| 39V 1205/2 | 22 | 55 |
| 39V 1205/3 | 40 | 55 |
| 39V 1205/4 | 40 | 65 |
| 39V 1205/5 | 40 | 85 |

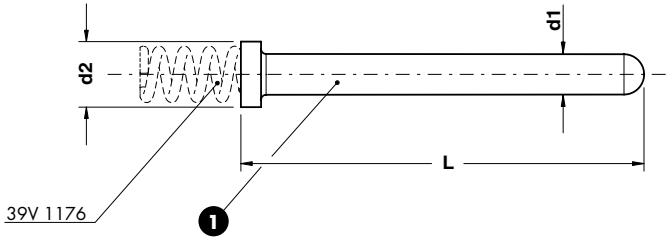
## EJECTOR - ABDRÜCKSTIFT - ESPULSORE

**Notes**

**Material:** 16MnCr5
**HRC:** 58÷60

STOCK






ORDER EXAMPLE

| VW CODE |
|---|
| 39V 1234/2 |

| VW CODE | d1 | d2 | L |
|---|---|---|---|
| 39V 1234/1 | 2,9 | 8 | 41 |
| 39V 1234/2 | 3,4 | 8 | 41 |
| 39V 1234/3 | 3,9 | 8 | 41 |
| 39V 1234/4 | 4,0 | 8 | 30 |
| 39V 1234/5 | 4,0 | 8 | 40 |
| 39V 1234/6 | 4,0 | 8 | 50 |
| 39V 1234/7 | 4,3 | 10 | 42 |
| 39V 1234/8 | 4,9 | 10 | 42 |
| 39V 1234/9 | 5,3 | 10 | 42 |

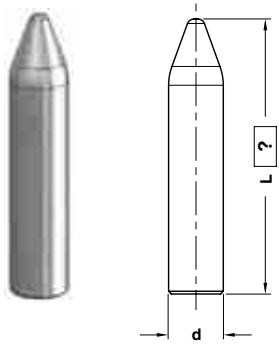
| VW CODE | d1 | d2 | L |
|---|---|---|---|
| 39V 1234/10 | 5,4 | 10 | 42 |
| 39V 1234/11 | 5,9 | 10 | 42 |
| 39V 1234/12 | 6,0 | 10 | 30 |
| 39V 1234/13 | 6,0 | 10 | 40 |
| 39V 1234/14 | 6,0 | 10 | 60 |
| 39V 1234/15 | 6,4 | 10 | 42 |
| 39V 1234/16 | 8,0 | 13 | 80 |
| 39V 1234/17 | 8,0 | 13 | 100 |
| 39V 1234/18 | 9,9 | 13 | 80 |

| VW CODE | d1 | d2 | L |
|---|---|---|---|
| 39V 1234/19 | 9,9 | 13 | 100 |
| 39V 1234/20 | 12,9 | 16 | 100 |
| 39V 1234/21 | 12,9 | 16 | 125 |
| 39V 1234/22 | 15,9 | 20 | 100 |
| 39V 1234/23 | 15,9 | 20 | 125 |
| 39V 1234/24 | 9,9 | 20 | 100 |
| 39V 1234/25 | 9,9 | 20 | 125 |
| 39V 1234/30 | 9,9 | 15 | 80 |

# 39V 1242

OMCR

## GAGE - EINWEISER - RIFERIMENTO




**Notes**

**Material:** 16MnCr5 - **HRC:** 58÷60
Only for replacement
Nur für Reparatur
Solo per riparazione

10

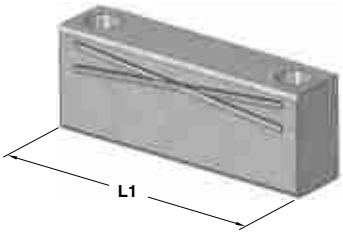
| ORDER EXAMPLE | VW CODE | L=100 |
|---|---|---|
| | 39V 1242/3 | 100 |

| VW CODE | d |
|---|---|
| 39V 1242/1 | 16 |
| 39V 1242/2 | 20 |
| 39V 1242/3 | 25 |

# 39V 1254

OMCR

## LOCATING BLOCK - FANGBACKE - TASSELLO DI CENTRAGGIO




**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

STOCK

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1254/10 |

| VW CODE | L1 |
|---|---|
| 39V 1254/10 | 100 |
| 39V 1254/11 | 125 |
| 39V 1254/12 | 160 |
| 39V 1254/13 | 200 |

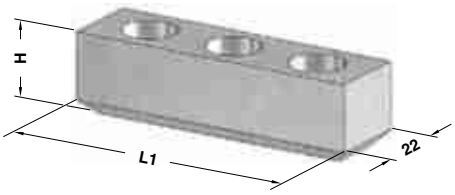
# 39V 1304

OMCR

## KEY - PASSFEDER - CHIAVETTA

| Notes |
|---|
| **Material:** CK45 |

STOCK




| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1304/2 |

| VW CODE | H | L1 | VW CODE | H | L1 | VW CODE | H | L1 |
|---|---|---|---|---|---|---|---|---|
| 39V 1304/1 | 14 | 50 | 39V 1304/7 | 22 | 50 | 39V 1304/11 | 40 | 50 |
| 39V 1304/2 | 14 | 80 | 39V 1304/8 | 22 | 80 | 39V 1304/12 | 40 | 80 |
| 39V 1304/3 | 14 | 100 | 39V 1304/9 | 22 | 100 | 39V 1304/13 | 40 | 100 |
| 39V 1304/4 | 14 | 125 | 39V 1304/10 | 22 | 125 | 39V 1304/14 | 40 | 125 |

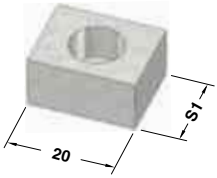

# 39V 1304

OMCR

## KEY - PASSFEDER - CHIAVETTA


| Notes |
|---|
| **Material:** CK45 |

STOCK




| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1304/6 |

| VW CODE | S1 |
|---|---|
| 39V 1304/5 | 12 |
| 39V 1304/6 | 16 |

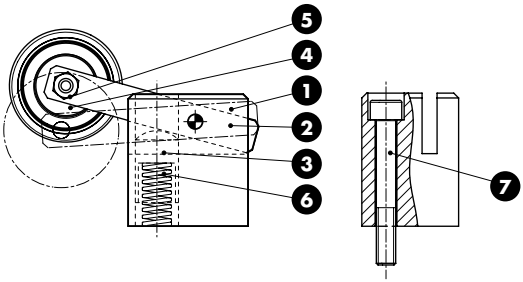
## ROLLER STOCK LIFTER - FEDERNDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



**39V 1569/1**

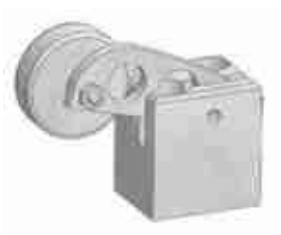
| Notes |
|---|
| 1 **Material:** C15 |
| 2 **Material:** S235JRG2K |
| 3 **Material:** 42CrMo4 |
| 5 **Material:** Steel |
| 6 Spring |
| 7 Screws M8x60 DIN 912 |

STOCK ...






**39V 1569/2**



**39V 1569/3**



**39V 1569/4**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1569/2 |

| VW CODE |
|---|
| 39V 1569/1 |
| 39V 1569/2 |
| 39V 1569/3 |
| 39V 1569/4 |

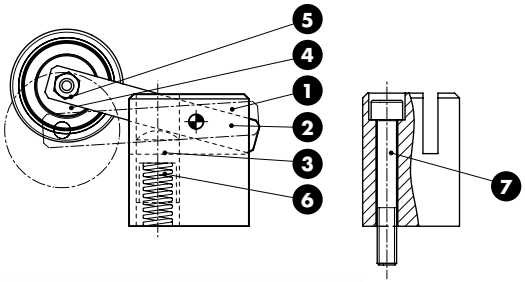
# ROLLER STOCK LIFTER - FEDERNDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



**39V 1569/10**

| Notes |
|---|
| 1 **Material:** C15 |
| 2 **Material:** S235JRG2K |
| 3 **Material:** 42CrMo4 |
| 4 **Material:** Steel |
| 5 DIN 625-1 (6303-2Z) |
| 6 Spring |
| 7 Screws M8x60 DIN 912 |

STOCK ...






**39V 1569/11**



**39V 1569/12**
**39V 1569/14**



**39V 1569/13**

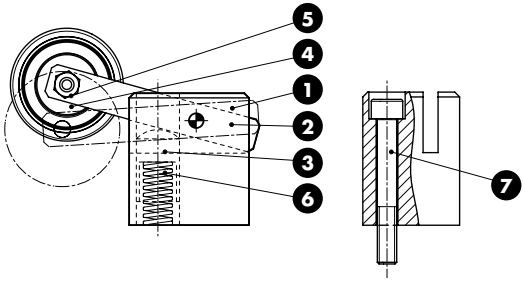
| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1569/11 |

| VW CODE |
|---|
| 39V 1569/10 |
| 39V 1569/11 |
| 39V 1569/12 |
| 39V 1569/13 |
| 39V 1569/14 |

## ROLLER STOCK LIFTER - FEDERNDE LAUFROLLE - RULLINO SOLLEVAMENTO NASTRO



**39V 1569/20**




| Notes |
|---|
| 1 **Material:** C15 |
| 2 **Material:** S235JRG2K |
| 3 **Material:** 42CrMo4 |
| 4 **Material:** Steel |
| 5 **Material:** Steel + Vulkolan |
| 6 Spring |
| 7 Screws M8x60 DIN 912 |

STOCK ...



**39V 1569/21**



**39V 1569/22**

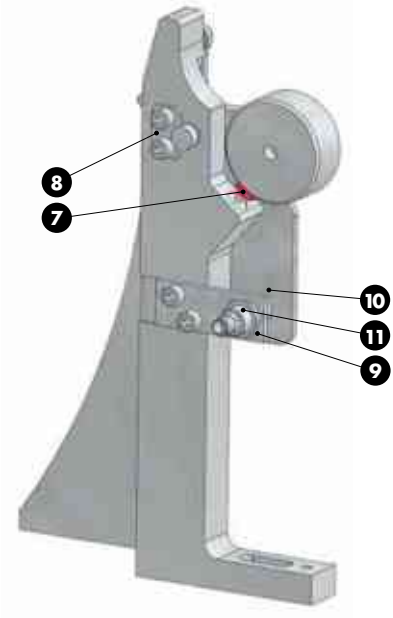


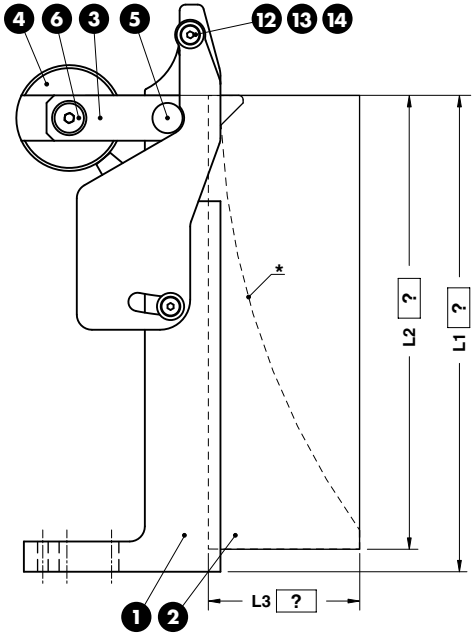
**39V 1569/23**

| ORDER EXAMPLE | VW CODE |
|---|---|
| | 39V 1569/21 |

| VW CODE |
|---|
| 39V 1569/20 |
| 39V 1569/21 |
| 39V 1569/22 |
| 39V 1569/23 |

# GAGE WITH POSITION CONTROL
# KLAPPEINWEISER MIT LAGEKONTROLLE
# RIFERIMENTO CON CONTROLLO DI POSIZIONE




## Notes

1 2 3 5 8
**Material:** 16MnCr5

4 9 10 **Material:** S235JRG2K

6 M10x30 DIN 7991

7 DESTACO 202208M

11 BALLUFF

12 C13.30.08012 (x2)

13 Washer PCM 241201.5M

14 E46.20.008012008

15 DIN 912 (x4)

10 ...

* Bei Konstruktion festlegen
Set in construction
Realizzato in costruzione

| ORDER EXAMPLE | VW CODE | L1=315 | L2=310 | L3=50 |
|---|---|---|---|---|
| | 39D 22047/1 | 315 | 310 | 50 |

| VW CODE |
|---|
| 39D 22047/1 |
| 39D 22047/2 |







# Die Components
# Normalien
# Componenti

OMCR®
STANDARD DIE COMPONENTS

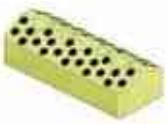
MAIN INDEX

| BCD 7247,314 | BCD 7247,316 | BCD 8265,411 | BCD 8265,411 | BCD 8271,812 |
|---|---|---|---|---|
|  |  |  |  |  |
| Slide stop block<br>Schieberranschlag<br>Arresto slitta | Cam Buffer<br>Anschlag<br>Arresto | Balance block<br>Distanzstück<br>Distanziale | Balance block<br>Distanzstück<br>Distanziale | Lifting pin<br>Tragbolzen mit fallringsicherung<br>Perno di sollevamento |
| 633 | 633 | 634 | 634 | 635 |

| BCD 8271,862 | BCD 8272,22 | BCD 8272,22 | BCD 8272,411 | BCD 8272,411 |
|---|---|---|---|---|
|  |  |  |  |  |
| Spacer blocks<br>Distanzstück<br>Distanziale | Wear plate Vdi 3357<br>Gleitplatte Vdi 3357<br>Piastra guida Vdi 3357 | Wear plate Vdi 3357<br>Gleitplatte Vdi 3357<br>Piastra guida Vdi 3357 | Guide pillars<br>Führungssäule<br>Colonna | Guide post retainer with retainer ring<br>Führungssäule mit sprengring<br>Ritegno per colonna con anello di tenuta |
| 636 | 637 | 638 | 639 | 640 |

| BCD 8272,412 | BCD 8272,421 | BCD 8272,421 | BCD 8272,677 | BCD 8272,677 |
|---|---|---|---|---|
|  |  |  |  |  |
| Guide post DIN 9833<br>Führungssäule DIN 9833<br>Colonna DIN 9833 | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Toe clamp<br>Haltestück<br>Ritegno per boccola | Cam dwell wear plate VDI 3357<br>Uberlaufkeile VDI 3357<br>Cuneo VDI 3357 | Cam dwell wear plate VDI 3357<br>Uberlaufkeile VDI 3357<br>Cuneo VDI 3357 |
| 641 | 642 | 642 | 643 | 644 |

| BCD 8272,841 | BCD 8272,852 | BCD 8272,6729 | BCD 8272,6749 | BCD 8272,6759 |
|---|---|---|---|---|
|  |  |  |  |  |
| Locating cone<br>Kegeldistanz<br>Cono di centraggio | Locating pin<br>Zentrierbolzen<br>Perno di centraggio | Guide bar VDI 3357<br>Führungsleiste VDI 3357<br>Lardone VDI 3357 | Angular guide<br>Winkelleiste<br>Guida angolare | "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida A "V" VDI 3357 |
| 645 | 646 | 646 | 647 | 648 |

| BCD 8272,6759 | BCD 8272,6759 | BCD 8272,6759 | BCD 8272,6759 | BCD 8272,6759 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver VDI 3357<br>Prismenführung VDI 3357<br>Guida A "V" VDI 3357 | "V" driver with positive return<br>Prismenführung mit Zwangsrückholer<br>Guida a "V" con gancio Di Ritorno | "V" driver<br>Prismenführung<br>Guida a "V" | "V" driver<br>Prismenführung<br>Guida a "V" | "V" driver<br>Prismenführung<br>Guida a "V" |
| 648 | 649 | 649 | 650 | 650 |

| BCD 8272,6759 | BCD 8272,6759 | BCD 8272,6759 | BCD 8272,6759 | BCD 8272,6759 |
|---|---|---|---|---|
|  |  |  |  |  |
| "V" driver<br>Prismenführung<br>Guida a "V" | Adjustment plate lower<br>Justierplatte unten<br>Piastra di registrazione inferiore | Adjustment plate front<br>Justierplatte vorne<br>Piastra di registrazione frontale | Adjustment plate front<br>Justierplatte vorne<br>Piastra di registrazione frontale | Adjustment plate rear<br>Justierplatte hinten<br>Piastra di registrazione posteriore |
| 650 | 651 | 651 | 651 | 652 |

| BCD 8272,6759 | BCD 8272,6759 | BCD 8283,133 | BCD 8283,133 | BCD 8283,134 |
|---|---|---|---|---|
|  |  |  |  |  |
| Adjustment plate rear<br>Justierplatte hinten<br>Piastra di registrazione posteriore | Positive return<br>Zwangsrückholer<br>Gancio | Support for sensor<br>Lagekontrolle für platinen<br>Supporto sensore | Gage for sensor<br>Einweiser für teillagekontolle<br>Riferimento per sensore | Gage hardened<br>Einweiser gehärtet<br>Riferimento indurito |
| 652 | 652 | 653 | 653 | 654 |

| BCD 8284,67 | BCD 8284,83 | BCD 8284,83 | BCD 8284,83 | BCD 8284,86 |
|---|---|---|---|---|
|  |  |  |  |  |
| Stripper for blanking dies<br>Abstreifer für platinenschnitte<br>Estrattore per stampi | Pad retainer pin VDI 3365<br>Steckbolzen VDI 3365<br>Perno di arresto VDI 3365 | Lock washer<br>Sicherungsscheibe<br>Piastrina di sicurezza | Shock absorber<br>Halteelement<br>Ammortizzatore | Elastomer washer<br>Dämpfungscheibe<br>Ammortizzatore |
| 654 | 655 | 655 | 656 | 656 |

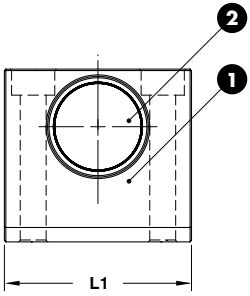
| BCD 8284,92 | BCD 8284,92 |
| --- | --- |
|  |  |
| Ground collar screw<br>Schraube mit distanzrohr<br>Vite con colletto | Buffer<br>Stossdämpfer<br>Ammortizzatore |
| 657 | 657 |

# BCD 7247,314

OMCR

## SLIDE STOP BLOCK - SCHIEBERRANSCHLAG - ARRESTO SLITTA






**Notes**

1. **Material:** CK45
2. **Material:** Elastomer 90 SH

STOCK ...

ORDER EXAMPLE

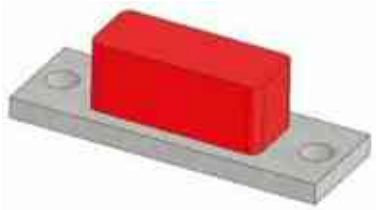
| VOLVO CODE |
|---|
| 6600014062 |

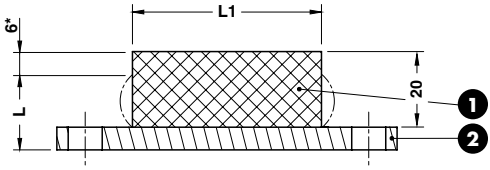
| VOLVO CODE | L1 |
|---|---|
| 6600014061 | 65 |
| 6600014062 | 75 |

# BCD 7247,316

OMCR

## CAM BUFFER - ANSCHLAG - ARRESTO






**Notes**

1. **Material:** Polyurethane 90 SH
2. **Material:** St37

STOCK ...

*Max. deflection
Max. zul. Federweg
Deflessione massima

**Gegenkraft bei 6mm max. zul. Federweg
Max. reaction force with 6 mm deflection
Forza di reazione massima per deflessione di 6mm

***Maximal absorbierte Energie bei 6 mm max. zul. Federweg
Massima energia assorbita con deflessione di 6 mm

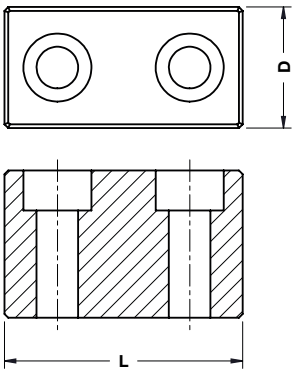
ORDER EXAMPLE

| VOLVO CODE |
|---|
| 9909206 |

| VOLVO CODE | L1 | Force for length "L" (kN)** | Max energy absorbion with 6 mm deflection (J)*** |
|---|---|---|---|
| 9909205 | 50 | 10 | 30 |
| 9909206 | 100 | 20 | 60 |

## BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






| Notes |
|---|
| **Material:** CK45 |

10

ORDER EXAMPLE

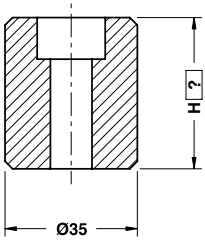
| VOLVO CODE | H=100 |
|---|---|
| 39927347 | 100 |

| VOLVO CODE | D | L |
|---|---|---|
| 39927346 | 32 | 63 |
| 39927347 | 40 | 80 |

BCD 8265,411 OMCR

BALANCE BLOCK - DISTANZSTÜCK - DISTANZIALE






| Notes |
|---|
| **Material:** CK45 |

10

ORDER EXAMPLE

| VOLVO CODE | H=100 |
|---|---|
| 9917782 | 100 |

| VOLVO CODE | D |
|---|---|
| 39927348 | 65 |
| 9917782 | 35 |

## LIFTING PIN - TRAGBOLZEN MIT FALLRINGSICHERUNG - PERNO DI SOLLEVAMENTO





Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

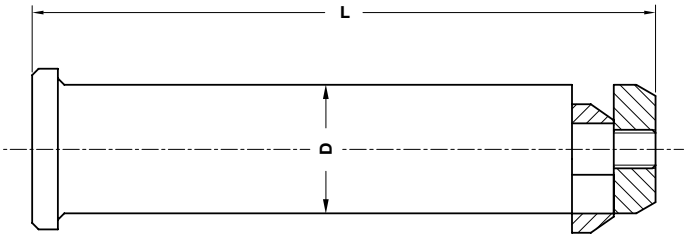
Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**Notes**

**Material:** St52

CE STOCK

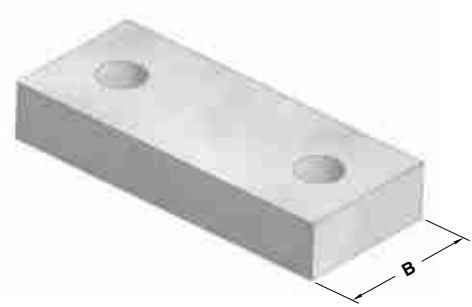


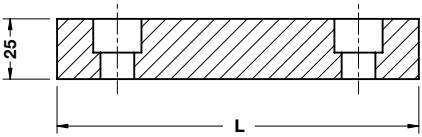

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 39919041 |

| VOLVO CODE | Max load (kg) | Max die weight (kg) | D | L |
|---|---|---|---|---|
| **39919040** | 2500 | 5000 | 40 | 195 |
| **39919041** | 8000 | 16000 | 63 | 285 |
| **39919042** | 12000 | 24000 | 63 | 327 |
| **39919043** | 20000 | 40000 | 80 | 402 |

## SPACER BLOCK - DISTANZSTÜCK - DISTANZIALE




**Notes**

**Material:** CK45

STOCK

ORDER EXAMPLE

**VOLVO CODE**
**39925954**

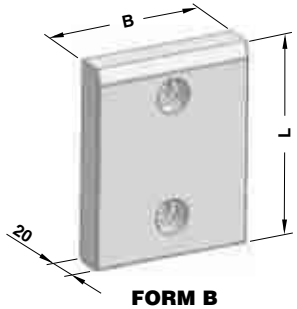
| VOLVO CODE | B | L | Max Load (t) |
|---|---|---|---|
| **39925953** | 63,5 | 150 | 250 |
| **39925954** | 40,5 | 100 | 90 |

# WEAR PLATE STEEL VDI 3357
# GLEITPLATTE STAHL VDI 3357
# PIASTRA GUIDA IN ACCIAIO VDI 3357

**Notes**

**Material:** 16MnCr5 - **HRC** 58÷60

STOCK




**FORM B**



**FORM D**



**FORM G**



**FORM H**



ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6303053663 |

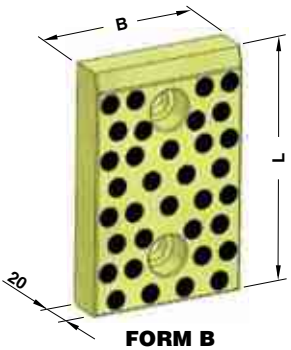
| VOLVO CODE | B | L | FORM | VOLVO CODE | B | L | FORM |
|---|---|---|---|---|---|---|---|
| 6303053662 | 50 | 160 | B | 6303052289 | 100 | 315 | B |
| 6303053663 | 50 | 200 | B | 6303052290 | 125 | 100 | G |
| 6303052279 | 80 | 100 | B | 6303052291 | 125 | 160 | G |
| 6303052280 | 80 | 160 | B | 6303052292 | 125 | 200 | G |
| 6303052281 | 80 | 200 | B | 6303052293 | 125 | 250 | G |
| 6303052282 | 80 | 250 | B | 6303052294 | 125 | 315 | G |
| 6303052283 | 80 | 315 | B | 6303052295 | 160 | 100 | G |
| 6303052284 | 100 | 50 | D | 6303052296 | 160 | 160 | G |
| 6303052285 | 100 | 100 | B | 6303052297 | 160 | 200 | G |
| 6303052286 | 100 | 160 | B | 6303052298 | 160 | 250 | H |
| 6303052287 | 100 | 200 | B | 6303052299 | 160 | 315 | H |
| 6303052288 | 100 | 250 | B | | | | |

# WEAR PLATE SELF-LUBRICATING VDI 3357
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357

**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




**FORM B**



**FORM D**



**FORM G**



**FORM H**

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6303053665 |

| VOLVO CODE | B | L | FORM |
|---|---|---|---|
| 6303053664 | 50 | 160 | B |
| 6303053665 | 50 | 200 | B |
| 6303052300 | 80 | 100 | B |
| 6303052301 | 80 | 160 | B |
| 6303052302 | 80 | 200 | B |
| 6303052303 | 80 | 250 | B |
| 6303052304 | 80 | 315 | B |
| 6303052305 | 100 | 50 | D |
| 6303052306 | 100 | 100 | B |
| 6303052307 | 100 | 160 | B |
| 6303052308 | 100 | 200 | B |
| 6303052309 | 100 | 250 | B |

| VOLVO CODE | B | L | FORM |
|---|---|---|---|
| 6303052310 | 100 | 315 | B |
| 6303052311 | 125 | 100 | G |
| 6303052312 | 125 | 160 | G |
| 6303052313 | 125 | 200 | G |
| 6303052314 | 125 | 250 | G |
| 6303052315 | 125 | 315 | G |
| 6303052316 | 160 | 100 | G |
| 6303052317 | 160 | 160 | G |
| 6303052318 | 160 | 200 | G |
| 6303052319 | 160 | 250 | H |
| 6303052320 | 160 | 315 | H |

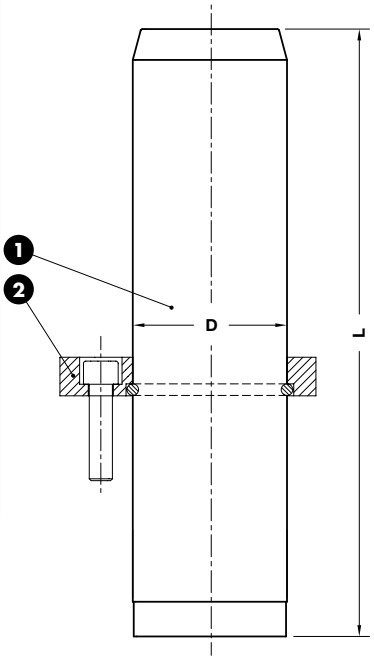
## GUIDE POST - FÜHRUNGSSÄULE - COLONNA



**Notes**

1. **Material:** 16MnCr5 - **HRC:** 60÷62
2. 3053052/3053058



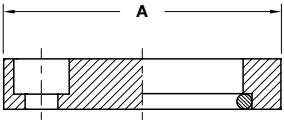



| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6303053018 |

| VOLVO CODE | D | L | VOLVO CODE | D | L | VOLVO CODE | D | L |
|---|---|---|---|---|---|---|---|---|
| 6303053017 | 25 | 140 | 6303053027 | 40 | 250 | 6303053041 | 63 | 400 |
| 6303053018 | 25 | 160 | 6303053030 | 50 | 200 | 6303053044 | 80 | 315 |
| 6303053019 | 25 | 180 | 6303053031 | 50 | 220 | 6303053045 | 80 | 355 |
| 6303053020 | 32 | 140 | 6303053032 | 50 | 250 | 6303053046 | 80 | 400 |
| 6303053021 | 32 | 160 | 6303053033 | 50 | 280 | 6303053047 | 80 | 500 |
| 6303053022 | 32 | 180 | 6303053034 | 50 | 315 | 6303053049 | 100 | 355 |
| 6303053023 | 32 | 200 | 6303053037 | 63 | 250 | 6303053050 | 100 | 400 |
| 6303053024 | 40 | 180 | 6303053038 | 63 | 280 | 6303053051 | 100 | 500 |
| 6303053025 | 40 | 200 | 6303053039 | 63 | 315 | | | |
| 6303053026 | 40 | 220 | 6303053040 | 63 | 355 | | | |

# GUIDE POST RETAINER WITH RETAINER RING
# FÜHRUNGSSÄULE MIT SPRENGRING
# RITEGNO PER COLONNA CON ANELLO DI TENUTA



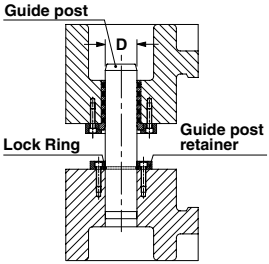



## Notes

**Material:** CK45

STOCK

## Application Example




| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6303053053 |

| VOLVO CODE | A | D (guide post) |
|---|---|---|
| 6303053052 | 45 | 25 |
| 6303053053 | 56 | 32 |
| 6303053054 | 70 | 40 |
| 6303053055 | 80 | 50 |
| 6303053056 | 100 | 63 |
| 6303053057 | 110 | 80 |
| 6303053058 | 140 | 100 |

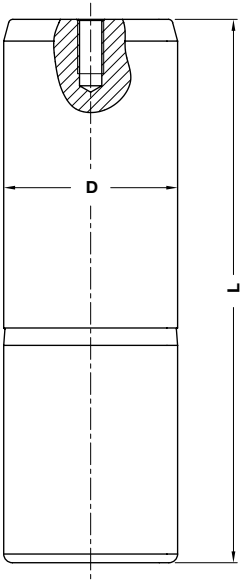
## GUIDE POST DIN 9833 - FÜHRUNGSSÄULE DIN 9833 - COLONNA DIN 9833

**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

10








ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6303051001 |

| VOLVO CODE | D | L | VOLVO CODE | D | L | VOLVO CODE | D | L |
|---|---|---|---|---|---|---|---|---|
| 6303053374 | 25 | 140 | 6303051009 | 50 | 200 | 6303051017 | 80 | 315 |
| 6303051001 | 25 | 160 | 6303051010 | 50 | 224 | 6303053388 | 80 | 355 |
| 6303053375 | 25 | 180 | 6303053381 | 50 | 250 | 6303051018 | 80 | 400 |
| 6303053376 | 32 | 140 | 6303051011 | 50 | 280 | 6303053389 | 100 | 315 |
| 6303051003 | 32 | 160 | 6303053382 | 50 | 315 | 6303053390 | 100 | 355 |
| 6303051004 | 32 | 180 | 6303053383 | 63 | 200 | 6303051020 | 100 | 400 |
| 6303051005 | 32 | 200 | 6303053384 | 63 | 224 | 6303051022 | 100 | 500 |
| 6303053377 | 40 | 160 | 6303051013 | 63 | 250 | 6303051023 | 125 | 400 |
| 6303051006 | 40 | 180 | 6303053385 | 63 | 280 | 6303051024 | 125 | 450 |
| 6303051007 | 40 | 200 | 6303051014 | 63 | 315 | 6303051025 | 125 | 500 |
| 6303053378 | 40 | 224 | 6303051015 | 63 | 355 | 6303051026 | 160 | 400 |
| 6303051008 | 40 | 250 | 6303051016 | 63 | 400 | 6303051027 | 160 | 450 |
| 6303053379 | 50 | 160 | 6303053386 | 80 | 250 | 6303051028 | 160 | 500 |
| 6303053380 | 50 | 180 | 6303053387 | 80 | 280 | | | |

# BCD 8272,421

OMCR

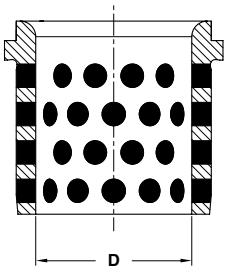
**BUSH SELF-LUBRICATING DIN 9834**
**FÜHRUNGSBUCHSE DIN 9834**
**BOCCOLA AUTOLUBRIFICANTE DIN 9834**



STOCK

**Notes**

**Material:** Bronze + Graphite
**HB** > 190




ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6303051059 |

| VOLVO CODE | D |
|---|---|
| 6303051058 | 25 |
| 6303051059 | 32 |
| 6303051060 | 40 |
| 6303051061 | 50 |
| 6303051062 | 63 |
| 6303051063 | 80 |
| 6303051064 | 100 |
| 6303051065 | 125 |
| 6303051066 | 160 |

# BCD 8272,421

OMCR

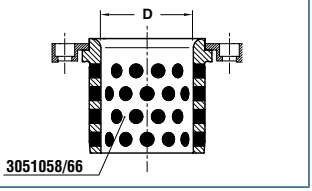
**TOE CLAMP - HALTESTÜCK - RITEGNO PER BOCCOLA**



**Notes**

**Material:** CK45

**Application example**



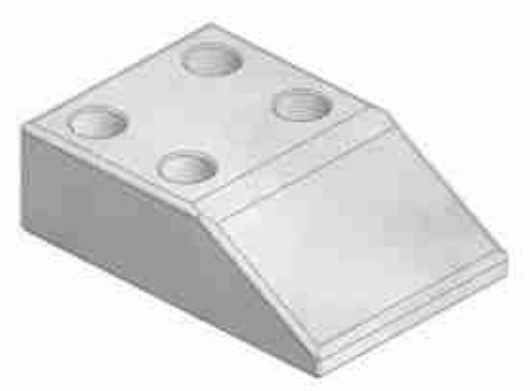

STOCK

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6303053618 |

| VOLVO CODE | D |
|---|---|
| 6303053617 | 25÷50 |
| 6303053618 | 63÷160 |

# CAM DWELL WEAR PLATE STEEL VDI 3357
# UBERLAUFKEILE STAHL VDI 3357
# CUNEO IN ACCIAIO VDI 3357

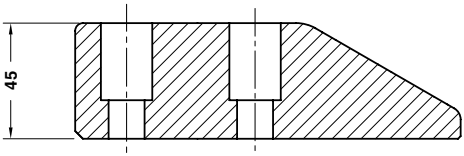


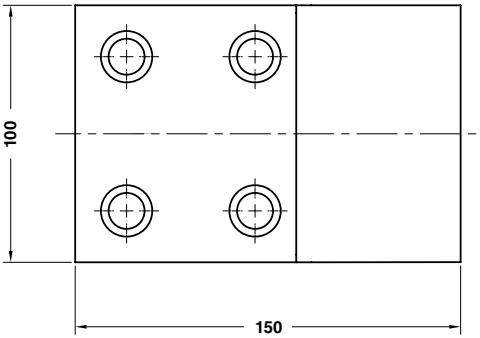
**Notes**

**Material:** 42CrMo4
**HRC:** 58÷60

STOCK ⟺






| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 3053061 |

| VOLVO CODE |
|---|
| 3053061 |

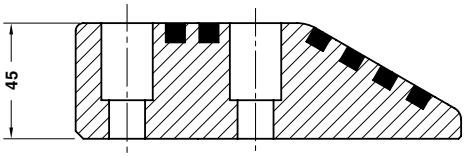
# CAM DWELL WEAR PLATE SELF-LUBRICATING VDI 3357
# UBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# CUNEO AUTOLUBRIFICANTE VDI 3357

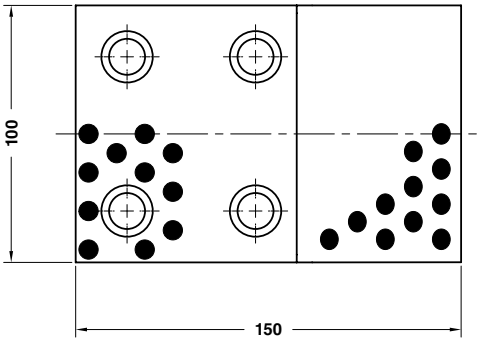


**Notes**

**Material:** Bronze + Graphite
**HB** > 190

STOCK




ORDER EXAMPLE

| VOLVO CODE |
| --- |
| 3053062 |

| VOLVO CODE |
| --- |
| 3053062 |

## LOCATING CONE - KEGELDISTANZ - CONO DI CENTRAGGIO



**Notes**

1 2 **Material:** 16MnCr5
**HRC:** 58÷60

3 **Material:** CK45

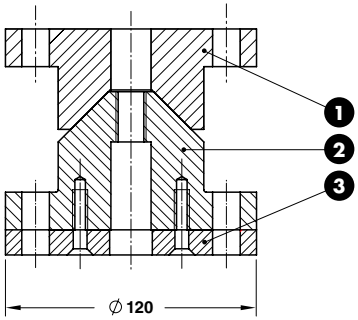
STOCK ...



**FORM A**



**FORM B**






**FORM C**

| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 3054831 |

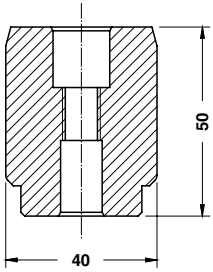
| VOLVO CODE | FORM |
|---|---|
| 3054830 | A |
| 3054831 | B |
| 3051349 | C |

## BCD 8272,852

OMCR

### LOCATING PIN - ZENTRIERBOLZEN - PERNO DI CENTRAGGIO






**Notes**

**Material:** 16MnCr5 - **HRC:** 60÷62

STOCK

ORDER EXAMPLE

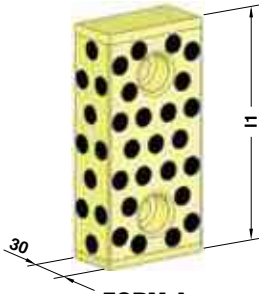
| VOLVO CODE |
|---|
| 9910244 |

| VOLVO CODE |
|---|
| 9910244 |

## BCD 8272,6729

OMCR

### GUIDE BAR VDI 3357 - FÜHRUNGSLEISTE VDI 3357 - LARDONE VDI 3357




FORM A



FORM B

**Notes**

**Material:** Bronze + Graphite - **HB**>190

STOCK

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 3052827 |

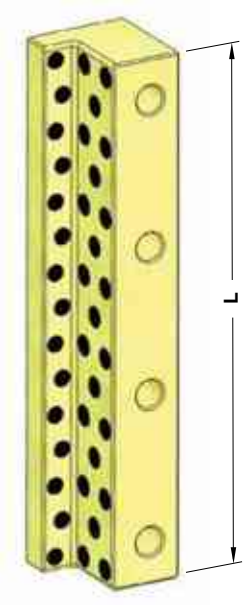
| VOLVO CODE | l1 | FORM |
|---|---|---|
| 3052826 | 150 | A |
| 3052827 | 200 | B |

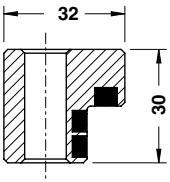
## ANGULAR GUIDE - WINKELLEISTE - GUIDA ANGOLARE

| Notes |
| --- |
| **Material:** Bronze + Graphite - **HB**>190 |

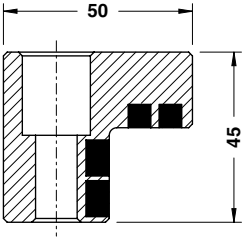
STOCK






**FORM A**

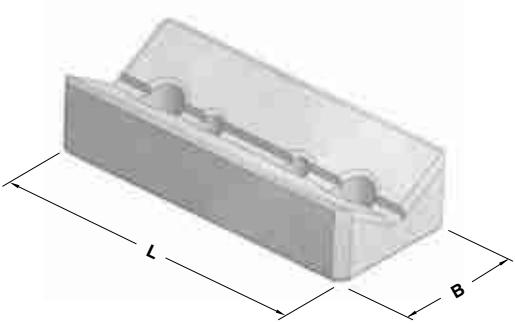



**FORM B**

| ORDER EXAMPLE | VOLVO CODE |
| --- | --- |
| | 3052834 |

| VOLVO CODE | FORM | L |
| --- | --- | --- |
| 3052833 | A | 150 |
| 3052834 | A | 200 |
| 3052835 | B | 200 |
| 3052836 | B | 250 |

## "V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357




**Notes**

**Material:** CK45 - **HRC:** 58÷60

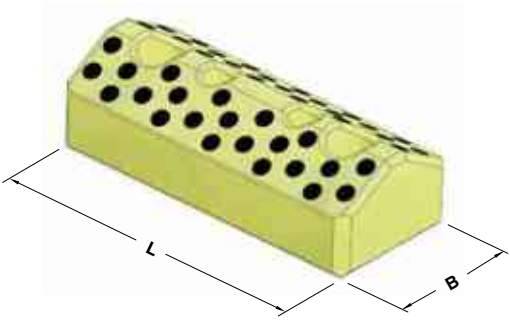
STOCK

| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6303052819 |

| VOLVO CODE | B | L |
|---|---|---|
| 6303052818 | 65 | 150 |
| 6303052819 | 65 | 200 |
| 6303052820 | 125 | 150 |
| 6303052821 | 125 | 200 |

BCD 8272,6759 OMCR

"V" DRIVER VDI 3357 - PRISMENFÜHRUNG VDI 3357 - GUIDA A "V" VDI 3357




**Notes**

**Material:** Bronze + Graphite - **HB** >190

STOCK

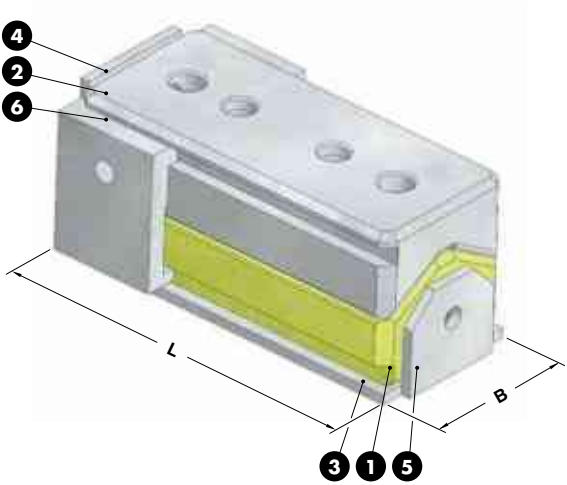
| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6303052823 |

| VOLVO CODE | B | L |
|---|---|---|
| 6303052822 | 65 | 150 |
| 6303052823 | 65 | 200 |
| 6303052824 | 125 | 150 |
| 6303052825 | 125 | 200 |

# BCD 8272,6759

OMCR

## "V" DRIVER WITH POSITIVE RETURN
## PRISMENFÜHRUNG MIT ZWANGSRÜCKHOLER
## GUIDA A "V" CON GANCIO DI RITORNO




**Notes**

1. 39925989÷92
2. 39925993÷96
3. 39925997÷39926000
4. 39926003÷39926004
5. 39926001÷39926002
6. 39926005

10

ORDER EXAMPLE

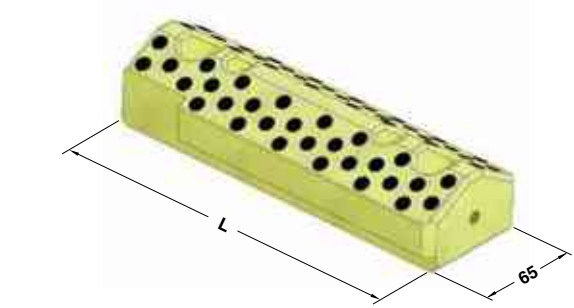
| VOLVO CODE |
|---|
| 6339925986 |

| VOLVO CODE | B | L |
|---|---|---|
| 6339925985 | 65 | 150 |
| 6339925986 | 65 | 200 |
| 6339925987 | 125 | 150 |
| 6339925988 | 125 | 200 |

# BCD 8272,6759

OMCR

## "V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"




**Notes**

**Material:** Bronze + Graphite - **HB**>190

10

ORDER EXAMPLE

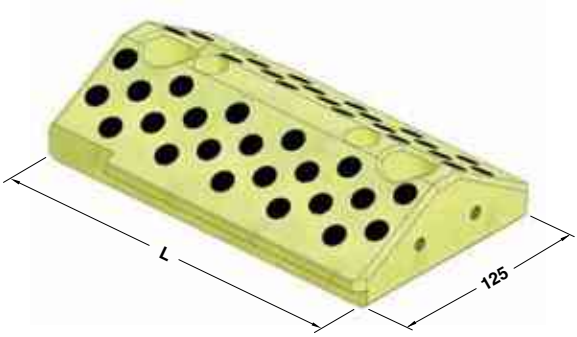
| VOLVO CODE |
|---|
| 6339925990 |

| VOLVO CODE | L |
|---|---|
| 6339925989 | 150 |
| 6339925990 | 200 |

## BCD 8272,6759

OMCR

### "V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"




**Notes**

**Material:** Bronze + Graphite - **HB**>190

10

ORDER EXAMPLE

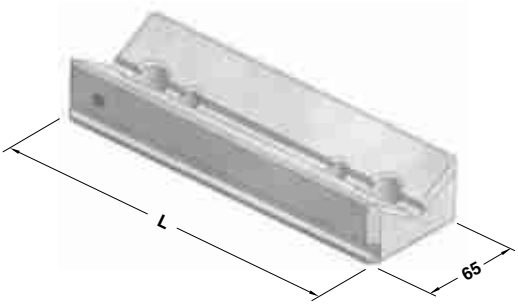
| VOLVO CODE |
|---|
| 6339925992 |

| VOLVO CODE | L |
|---|---|
| 6339925991 | 150 |
| 6339925992 | 200 |

## BCD 8272,6759

OMCR

### "V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"




**Notes**

**Material:** CK45 - **HRC:** 58÷60

10

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6339925994 |

| VOLVO CODE | L |
|---|---|
| 6339925993 | 150 |
| 6339925994 | 200 |

## BCD 8272,6759

OMCR

### "V" DRIVER - PRISMENFÜHRUNG - GUIDA A "V"




**Notes**

**Material:** CK45 - **HRC:** 58÷60

10

ORDER EXAMPLE

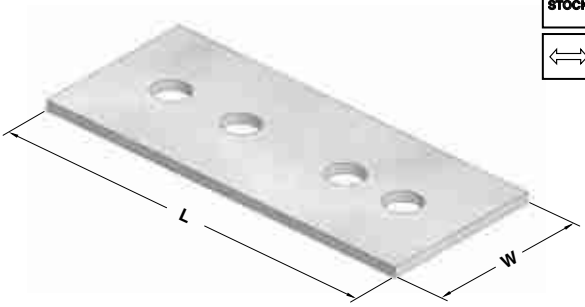
| VOLVO CODE |
|---|
| 6339925996 |

| VOLVO CODE | L |
|---|---|
| 6339925995 | 150 |
| 6339925996 | 200 |

## BCD 8272,6759

OMCR

### ADJUSTMENT PLATE LOWER - JUSTIERPLATTE UNTEN - PIASTRA DI REGISTRAZIONE INFERIORE




STOCK

**Notes**

**Material:** S355JR

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6339925998 |

| VOLVO CODE | W | L |
|---|---|---|
| 6339925997 | 65 | 150 |
| 6339925998 | 65 | 200 |
| 6339925999 | 125 | 150 |
| 6339926000 | 125 | 200 |

## BCD 8272,6759

OMCR

### ADJUSTMENT PLATE FRONT - JUSTIERPLATTE VORNE - PIASTRA DI REGISTRAZIONE FRONTALE




**Notes**

**Material:** S355JR

STOCK

ORDER EXAMPLE

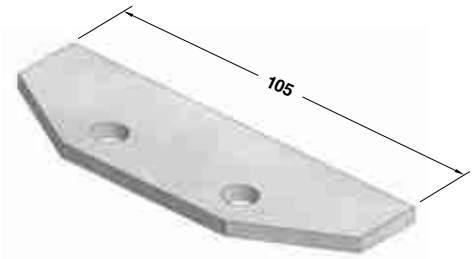
| VOLVO CODE |
|---|
| 6339926001 |

| VOLVO CODE |
|---|
| 6339926001 |

## BCD 8272,6759

OMCR

### ADJUSTMENT PLATE FRONT - JUSTIERPLATTE VORNE - PIASTRA DI REGISTRAZIONE FRONTALE




**Notes**

**Material:** S355JR

STOCK

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6339926002 |

| VOLVO CODE |
|---|
| 6339926002 |

## BCD 8272,6759

OMCR

### ADJUSTMENT PLATE REAR - JUSTIERPLATTE HINTEN - PIASTRA DI REGISTRAZIONE POSTERIORE



**Notes**

**Material:** S355JR

STOCK

| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6339926003 |

| VOLVO CODE |
|---|
| 6339926003 |


## BCD 8272,6759

OMCR

### ADJUSTMENT PLATE REAR - JUSTIERPLATTE HINTEN - PIASTRA DI REGISTRAZIONE POSTERIORE




**Notes**

**Material:** S355JR

STOCK

| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6339926004 |

| VOLVO CODE |
|---|
| 6339926004 |


## BCD 8272,6759

OMCR


### POSITIVE RETURN - ZWANGSRÜCKHOLER - GANCIO



**Notes**

**Material:** 34CrNiMo6

STOCK

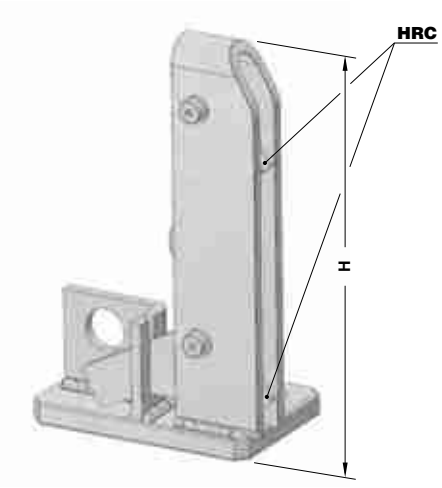
| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6339926005 |

| VOLVO CODE |
|---|
| 6339926005 |

# BCD 8283,133

OMCR

## SUPPORT FOR SENSOR - LAGEKONTROLLE FÜR PLATINEN - SUPPORTO SENSORE




**Notes**

**Material:** Steel - **HRC:** 58÷60

STOCK

* As shown in drawing
Germäß zeichnung
Come a disegno

** Opposite to drawing
Spiegelverkehrt
Opposto al disegno

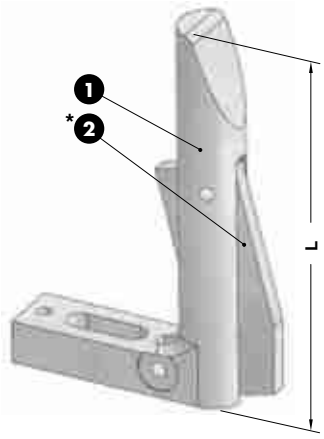
| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6305935476 |

| VOLVO CODE | H | SIDE |
|---|---|---|
| 6305935475 | 145 | LEFT** |
| 6305935476 | 145 | RIGHT* |
| 6305935477 | 185 | LEFT ** |
| 6305935478 | 185 | RIGHT* |

# BCD 8283,133

OMCR

## GAGE FOR SENSOR - EINWEISER FÜR TEILLAGEKONTOLLE - RIFERIMENTO PER SENSORE




**Notes**

1 **Material:** CK60

2 **Material:** St37 **HRC:** 58÷60

STOCK

| ORDER EXAMPLE | VOLVO CODE |
|---|---|
| | 6303051761 |

| VOLVO CODE | L |
|---|---|
| 6303051760* | 120 |
| 6303051761* | 150 |
| 6303051762 | 180 |
| 6303051763 | 250 |

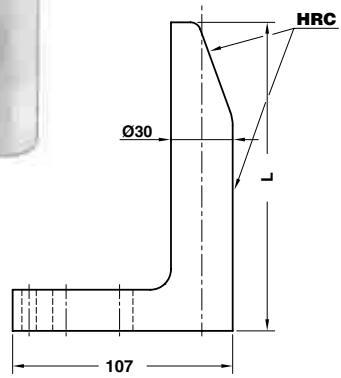
* With short plate
Mit kurz platte
Con piastra corta

## BCD 8283,134

MCR

### GAGE HARDENED - EINWEISER GEHÄRTET - RIFERIMENTO INDURITO






**Notes**

**Material:** CK60 - **HRC:** 58÷60

STOCK

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 3051755 |

| VOLVO CODE | L |
|---|---|
| 3051754 | 65 |
| 3051755 | 90 |
| 3051756 | 120 |
| 3051757 | 150 |
| 3051758 | 180 |
| 3051759 | 250 |

## BCD 8284,67

MCR

### STRIPPER FOR BLANKING DIES - ABSTREIFER FÜR PLATINENSCHNITTE - ESTRATTORE PER STAMPI



**Notes**

**Material:** Elastomer 70SH

STOCK

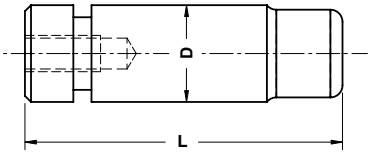
ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6303042342 |

| VOLVO CODE |
|---|
| 6303042342 |

## PAD RETAINER PIN - STECKBOLZEN - PERNO DI ARRESTO






**Notes**

**Material:** 42CrMo4

STOCK

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 9900734 |

| VOLVO CODE | D | L |
|---|---|---|
| 9900733 | 25 | 125 |
| 9900734 | 32 | 145 |
| 9900735 | 40 | 150 |
| 9900736 | 50 | 175 |
| 9900737 | 63 | 210 |



BCD 8284,83 OMCR

## LOCK WASHER - SICHERUNGSSCHEIBE - PIASTRINA DI SICUREZZA



**Notes**

**Material:** S235JR

STOCK

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 9900743 |

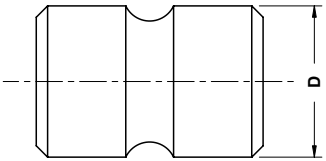
| VOLVO CODE |
|---|
| 9900743 |

# BCD 8284,83

OMCR

## SHOCK ABSORBER - HALTEELEMENT - AMMORTIZZATORE






**Notes**

**Material:** CO-Polyester Elastomer

STOCK

ORDER EXAMPLE

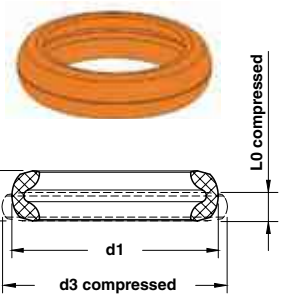
| VOLVO CODE |
|---|
| 9934356 |

| VOLVO CODE | D |
|---|---|
| 9934355 | 40 |
| 9934356 | 50 |
| 5937181 | 63 |
| 9934367 | 80 |

# BCD 8284,86

OMCR

## ELASTOMER WASHER - DÄMPFUNGSCHEIBE - AMMORTIZZATORE




**Notes**

**Material:** CO-Polyester Elastomer

STOCK

*Die höchste Belastung
Carico massimo ammissibile

**Komprimiert
Compresso

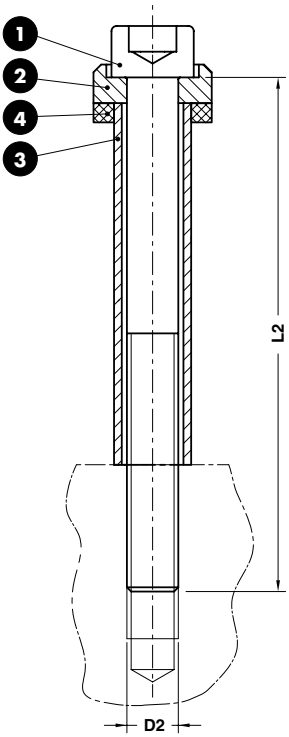
ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6305936830 |

| VOLVO CODE | d1 | d3 (compressed**) | L0 | L0 (compressed**) | Shore | Load* (N) |
|---|---|---|---|---|---|---|
| 6600017820 | 45,8 | 49,8 | 17,0 | 11,6 | 55D | 20000 |
| 6305936830 | 54,6 | 61,8 | 21,3 | 13,0 | 55D | 30000 |
| 6305937132 | 61,8 | 69,9 | 21,5 | 13,2 | 55D | 46000 |
| 6305939451 | 78,2 | 89,0 | 29,8 | 17,9 | 55D | 75000 |

## GROUND COLLAR SCREW - SCHRAUBE MIT DISTANZROHR - VITE CON COLLETTO






**Notes**

1. DIN 912 cl. 12.9
2. **Material:** Steel 1000 N/mm²
3. **Material:** Steel 1200÷1400 N/mm²
4. 5935907÷5935910

STOCK ...

ORDER EXAMPLE

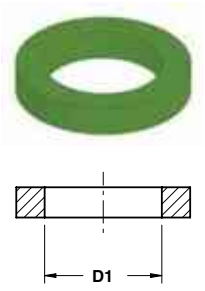
| VOLVO CODE |
|---|
| 6305935900 |

| VOLVO CODE | D2 | L2 |
|---|---|---|
| 6305935899 | M8 | 80 |
| 6305935900 | M10 | 90 |
| 6305935901 | M10 | 100 |
| 6305935902 | M10 | 110 |
| 6305939950 | M12 | 100 |
| 6305939951 | M12 | 120 |
| 6305939952 | M12 | 140 |
| 6305939953 | M12 | 180 |
| 6305939954 | M16 | 130 |
| 6305939955 | M16 | 140 |
| 6305939956 | M16 | 150 |
| 6305939957 | M16 | 160 |
| 6305939958 | M16 | 180 |
| 6305939959 | M16 | 200 |



BCD 8284,92 OMCR

## BUFFER - STOSSDÄMPFER - AMMORTIZZATORE




STOCK

**Notes**

**Material:** Elastomer 90 SH

ORDER EXAMPLE

| VOLVO CODE |
|---|
| 6305935908 |

| VOLVO CODE | D1 |
|---|---|
| 6305935907 | 13 |
| 6305935908 | 15,5 |
| 6305935909 | 18 |
| 6305935910 | 26 |


C 40 U
OMCR



# Cam Units
# Schieber
# Unità a camme

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

# Cam Units
# Schieber
# Unità a Camme

(GB) For more than 15 years **OMCR** has been working in the field of press cam units and has gained wide experience both in designing and producing units in various forms and dimensions. This catalogue offers a wide range of cam units to satisfy most technical requirements. The **Star Cam Series** (**CHD**, **CHV**, **CHW**, **CLB**, **CRX** e **DHC**), represents the best characteristics of **performance**, **competitiveness** and **service**.

(D) Seit mehr als 15 Jahren stellt **OMCR** Schieber her und hat umfangreiche Erfahrungen in der Konstruktion und Produktion von Schiebern in den verschiedensten Ausführungen gesammelt. In diesem Katalog sind viele unterschiedliche Schieber enthalten, um nahezu alle technischen Belange abzudecken.

Hervorragend sind unsere **Star Cam Series** (**CHD**, **CHV**, **CHW**, **CLB**, **CRX** e **DHC**), Schieber die beste Eigenschaften von **Performance**, **Wettbewerbsfähigkeit** und **Service** in sich vereinen.

(I) Da oltre quindici anni **OMCR** opera nel settore delle camme di tranciatura ed ha acquisito un'ampia esperienza sia nella progettazione che nella realizzazione di unità a camme in svariate geometrie e dimensioni. Questo catalogo propone un'ampia gamma per poter far fronte a qualsiasi esigenza tecnica.

Tra queste spicca la **Star Cam Series** (**CHD**, **CHV**, **CHW**, **CLB**, **CRX** e **DHC)**, camme che esprimono le migliori caratteristiche di **performance**, **competitività** e **servizio**.





## Aerial Cam Units
## Oben Hangender Schieber
## Unità a Camme Sospese



**CHD** **CHV** VDI NORM **CHW** VDI NORM **CLB**

HEAVY DUTY - SCHWERLAST - LAVORI PESANTI



**CHK** **CHR** **CLC** **CLD** **CLF**

LIGHT DUTY - LEICHTE - LAVORI LEGGERI

## Roller Cam Units
## Rollenschieber
## Unità a Camme a Rullo



**DCRX**

**CRX**

HEAVY DUTY
SCHWERLAST
LAVORI PESANTI

## Die Mounted Cam Units
## Horizontalschieber
## Unità a Camme a Base Stampo



**DHC**

HEAVY DUTY
SCHWERLAST
LAVORI PESANTI

**DLD**

LIGHT DUTY
LEICHTE
LAVORI LEGGERI

# CHD

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB We recommend the **CHD** range of cam units for heavy-duty applications. Nine models are available with work **angles from 0° to 65°** (in 5° steps), **work forces from 60 to 645 kN, slider widths from 50 to 300 mm**. It is possible to choose between coil spring or gas spring return.

D Unsere **CHD** Schieber sind für schwere Anwendungen geeignet. Neun Modelle mit **Arbeitswinkel von 0° bis 65°** (in 5° Schritten), **Arbeitskraft 60 bis 645 kN, Nutzbreite 50 bis 300 mm**. Wahlmöglichkeit zwischen Rückholung mit Schraubendruckfeder oder Gasdruckfeder.

I Robuste ed affidabili, le camme **CHD** sono indicate per impieghi gravosi. Nove modelli con **angolo di lavoro da 0° a 65°** (a passi di 5°) , **forze di lavoro da 60 a 645 kN**. **Larghezze** utili **da 50 a 300 mm**. Possibilità di scegliere il ritorno con molla a filo o molla a gas.

# CHV

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB They are compact, have high work and return forces, are built from high-strength materials which ensure excellent resistance to twisting loads and have very good penetrating precision. They are characterized by easy maintenance thanks to the use of normalized wear plates (VDI3357) and to the possibility to change the gas spring under press. Twelve models are available with work **angles from 0° to 75°** (in 5° steps), **work forces from 92 to 1202 kN, slider widths from 50 to 600 mm**.

D Die **CHV** Schieber sind unser innovativstes Produkt. Kompakte Auslegung, hohe Arbeits- und Rückholkraft auch bei hohen Drehmomenten. Sie sind besonders geeignet, wenn eine hohe Stanzgenauigkeit gefragt ist und werden aus sehr widerstandsfähigen Materialien hergestellt. Einfache Instandhaltung durch genormte Gleitplatten (VDI3357) und in der Presse demontierbare Gasdruckfedern. Zwölf Modelle mit **Arbeitswinkel von 0° bis 75°** (in 5° Schritten), **Arbeitskraft 92 bis 1202 kN, Nutzbreite 50 bis 600 mm**.

I Le camme **CHV** rappresentano il TOP dell'intera gamma. Hanno dimensioni compatte, forze di lavoro e di estrazione elevate e un'ottima resistenza alle forze torcenti. Sono particolarmente indicate quando è necessaria un'elevata precisione di foratura. Vengono costruite con materiali ad alta resistenza. Garantiscono facilità di manutenzione grazie alle piastre di scorrimento normalizzate (VDI3357) e allo smontaggio delle molle a gas sotto pressa. Dodici modelli con **angolo di lavoro da 0° a 75°** (a passi di 5°), **forze di lavoro da 92 a 1202 kN**. **Larghezze utili da 50 a 600 mm**.

# CHW

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB **CHW** cam units are extremely compact and suitable for applications requiring high work forces. They are equipped with sintered steel sliding elements (SINT300®) and thanks to the new stop system, the cam slider can be easily disassembled for quick maintenance. Four models with **working angles from 0° to 75°** (in 5° steps), **work forces from 210 to 320 kN. Working widths from 65 to 110 mm.**

D Die **CHW** Schieber sind äußerst kompakt und eignen sich für Anwendungen, die hohe Arbeitskräfte erfordern. Sie sind mit Gleitelementen aus Sinterstahl (SINT300®) ausgestattet und dank des neuen Anschlagsystems kann der Schieberkörper für eine schnelle Wartung leicht demontiert werden. Vier Modelle mit **Arbeitswinkeln von 0° bis 75°** (in 5° Schritten), **Arbeitskraft von 210 bis 320 kN. Arbeitsbreiten von 65 bis 110 mm.**

I Le camme **CHW** sono estremamente compatte e indicate per applicazioni che richiedono una elevata forza di lavoro, sono dotate di elementi di scorrimento in acciaio sinterizzato (SINT300 ®) e grazie al nuovo sistema di arresto è possibile eseguire agilmente lo smontaggio della slitta per una rapida manutenzione. Quattro modelli con **angolo di lavoro da 0° a 75°** (a passi di 5°), **forze di lavoro da 210 a 320 kN**. **Larghezze utili da 65, 85, 90 e 110 mm**.

# CLB

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB Our **CLB** cam units offer a very competitive performance /price ratio. Five models are available with work **angles from 0° to 60°** (in 5° steps), **work forces from 302 to 865 kN, slider widths from 200 to 600 mm**. It is possible to choose between **coil spring or gas spring return**.

D Robust und kompakt bieten die **CLB** Schieber ein sehr wettbewerbsfähiges Preis-/Leistungsverhältnis. Fünf Modelle mit **Arbeitswinkel von 0° bis 60°** (in 5° Schritten), **Arbeitskraft 302 bis 865 kN, Nutzbreite 200 bis 600 mm**. Wahlmöglichkeit zwischen Rückholung mit Schraubendruckfeder oder Gasdruckfeder.

I Robuste e compatte, le camme **CLB** offrono un rapporto performance/prezzo molto competitivo. Cinque modelli con **angolo di lavoro da 0° a 60°** (a passi di 5°), **forze di lavoro da 302 a 865 kN**. **Larghezze utili da 200 a 600 mm**. Possibilità di scegliere il ritorno con **molla a filo o molla a gas**.

# CHK

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB **CHK** aerial cam units are best suited for medium/light drilling and flanging. They look different from CLK due to the presence of a V guide on the Driver to improve alignment precision. **Three models** are available with **work angles from 0° to 70°** (in 5° steps for 65 mm width and 10° steps for 100 and 200 mm widths), **work forces from 58 to 231 kN. Slider widths from 65 to 200 mm.** Coil spring return only.

D Die oben hängenden Schieber **CHK** sind für leichte und mittlere Bohr- und Bördelarbeiten geeignet. Sie unterscheiden sich vom CLK Modell durch eine zusätzliche Prismenführung am Driver zur Verbesserung der Annäherungsgenauigkeit. Drei Modelle mit **Arbeitswinkel von 0° bis 70°** (in 5° Schritten), **Arbeitskraft von 58 bis 231 kN, Nutzbreite von 65 bis 200 mm.** Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree **CHK** sono adatte a lavorazioni di foratura e flangiatura medio leggere. Differiscono dalle più essenziali CLK per la presenza di una guida a V sul Driver che migliora la precisione di allineamento. Tre modelli con **angolo di lavoro da 0° a 70°** (a passi di 5° per la larghezza 65 mm e a passi di 10° per le larghezze 100 e 200 mm), **forze di lavoro da 58 a 231 kN. Larghezze utili da 65 a 200 mm.** Possibilità di ritorno solo con molla a filo.

# CHR

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB **CHR** aerial cam units are best suited for heavy drilling and flanging. **Six models** are available with **work angles from 0° to 60°** (in 5° steps), **work forces from 90 to 521 kN. Slider widths from 70 to 400 mm.** Manufactured according to **NAAMS** standards, these cam units are equipped with cam accelerators to quieten the noise level starting from 165 mm width. It is possible to choose between coil spring or gas spring return.

D Die oben hängenden Schieber **CHR** sind für schwere Bohr- und Bördelarbeiten geeignet. Sechs Modelle mit **Arbeitswinkel von 0° bis 60°** (in 5° Schritten), **Arbeitskraft von 90 bis 521 kN, Nutzbreite von 70 bis 400 mm.** Diese Schieber nach **NAAMS** Norm verfügen ab einer Breite von 165 mm über einen Beschleuniger zur Geräuschdämpfung. Rückzug mit Schraubendruckfeder oder Gasdruckfeder möglich.

I Le camme aeree **CHR** sono adatte a lavorazioni di foratura e flangiatura gravose. Sei modelli con **angolo di lavoro da 0° a 60°** (a passi di 5°), **forze di lavoro da 90 a 521 kN. Larghezze utili da 70 a 400 mm.** Queste camme, realizzate secondo normativa NAAMS, sono dotate di acceleratore per attenuazione della rumorosità a partire dalla larghezza 165. Possibilità di ritorno con molla a filo o molla a gas.

## CLC

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB **CLC** aerial cam units are best suited for medium/light drilling and flanging. **Four models** are available with **work angles from 0° to 70°** (in 5° steps), **work forces from 41 to 140 kN. Slider widths from 50 to 150 mm.** Coil spring return only.

D Die oben hängenden Schieber **CLC** sind besonders für leichte und mittlere Stanz- und Bördelarbeiten geeignet. Vier Modelle mit **Arbeitswinkel von 0° bis 70°** (in 5° Schritten), **Arbeitskraft von 41 bis 140 kN, Nutzbreite von 50 bis 150 mm.** Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree **CLC** sono adatte a lavorazioni di foratura e flangiatura medio-leggere. Quattro modelli con **angolo di lavoro da 0° a 70°** (a passi di 5°), **forze di lavoro da 41 a 140 kN. Larghezze utili da 50 a 150 mm.** Possibilità di ritorno solo con molla a filo.

## CLD

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB **CLD** aerial cam units are extremely compact and suited for medium/light drilling. They are not suitable for flanging. **One model** with **work angles from 0° to 80°** (in 5° steps), **work forces 31 kN**. Coil spring return only.

D Die oben hängenden Schieber **CLD** sind extrem kompakt und für leichte und mittlere Stanzarbeiten geeignet. Für Bördelarbeiten sind sie nicht geeignet. Ein Modell mit **Arbeitswinkel von 0° bis 80°** (in 5° Schritten), **Arbeitskraft 31 kN.** Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree **CLD** sono estremamente compatte e adatte a lavorazioni di foratura medio-leggere. Non sono idonee a lavorazioni di flangiatura. Un modello con **angolo di lavoro da 0° a 80°** (a passi di 5°), **forze di lavoro di 31 kN.** Possibilità di ritorno solo con molla a filo.

## CLF

**AERIAL CAM UNITS**
**OBEN HÄNGENDER SCHIEBER**
**UNITÀ A CAMME SOSPESE**



GB **CLF** aerial cam units are suited to make medium-light drilling and flanging workings. Two models with **work angles from 0° to 70°** (5° steps), **work forces from 116 to 192 kN. Slider widths from 80 to 150 mm.** Extraction only by enhanced coil spring.

D Die oben hängenden Schieber **CLF** sind für leichte bis mittlere Stanz- und Bördelarbeiten geeignet. Zwei Modelle mit **Arbeitswinkel von 0° bis 70°** (in 5° Schritten), **Arbeitskraft von 116 bis 192 kN, Nutzbreite von 80 bis 150 mm.** Rückzug nur mit Schraubendruckfeder möglich.

I Le camme aeree **CLF** sono adatte a lavorazioni di foratura e flangiatura medio-leggere. Due modelli con **angolo di lavoro da 0° a 70°** (a passi di 5°), **forze di lavoro da 116 a 192 kN. Larghezze utili da 80 a 150 mm.** Ritorno solo con molla a filo rinforzata.

# CRX

**ROLLER CAM UNITS**
**ROLLENSCHIEBER**
**UNITÀ A CAMME A RULLO**



(GB) Thanks to their compact size, **CRX** cam units are particularly suited for close punching. Ease of mounting and flexibility in applications are their strong points. Five models are available with work **angles from -15°** (back-draft punching) **to 50°** (free angle steps), **work forces from 45 to 258 kN, slider widths from 78 to 240 mm**. **Strokes 30 and 48 available for CRX01, 48, 78 and 98 mm for other models. Positive returns for extraction. Normalized wedges with work angles from -15° to 50°** (in 5° steps). **Slider back position check**.

(D) **CRX** Schieber sind Dank Ihrer kompakten Abmessungen besonders bei nahe aneinander liegenden Stanzdurchbrüchen geeignet. Einfache Montage und flexible Anwendung sind ihre Stärke. Vier Modelle mit **Arbeitswinkel ab -15°** (Stanzen im Hinterschnitt) **bis 50°** (alle Zwischengrade einsetzbar), **Arbeitskraft 45 bis 258 kN, Hübe von 30 und 48 mm bei CRX01, von 48, 78 und 98 mm bei den anderen Modellen**. **Neue Sicherheits-Zwangsrückholung**.**Genormte Treiber für Arbeitswinkel von -15° bis 50°** (in 5° Schritten). **Sensor zur hinteren Kontrolle der Schieberslage**

(I) L'utilizzo delle camme **CRX**, grazie alle loro dimensioni compatte, è particolarmente indicato nel caso di forature ravvicinate. Facilità di montaggio e flessibilità nell'applicazione sono il loro punto di forza. Cinque modelli con **angolo di lavoro da -15°** (foratura in sottosquadro) **a 50°** (applicabili in tutti i gradi intermedi), **forze di lavoro da 45 a 258 kN. Larghezze utili da 78 a 240 mm. Corse di 30 e 48 mm per la CRX01, di 48, 78 e 98 mm per gli altri modelli. Ganci di sicurezza per l'estrazione. Cunei di azionamento normalizzati per angoli di lavoro da -15° a 50°** (a passi di 5°). **Sensore per il controllo di posizione del cursore.**

# DHC

**DIE MOUNTED CAM UNIT**
**HORIZONTALSCHIEBER**
**UNITÀ A CAMME A BASE STAMPO**



GB **DHC** die mounted cam units are best suited for heavy drilling and flanging thanks to their spheroid cast iron structure. They are characterized by easy maintenance thanks to the use of self-lubricating wear plates and steel on the most stressed parts. **Seven models** are available with **work forces from 38 to 480kN, slider widths from 52 to 400 mm, work angles 0° for 52, 200, 250, 300 and 400 mm widths, work angles from 0° to 20°** (in 5° steps) **for 65, 100 and 150 mm widths**. Return by coil spring or gas spring.

D Die unten liegenden Schieber **DHC** sind dank Ihrer Struktur aus Kugelguss für schwere Stanz- und Biegearbeiten geeignet. Sie gewährleisten aufgrund der Verwendung von Gleitplatten aus Bronze mit Festschmierstoff/Stahl auf den besonders beanspruchten Gleitflächen eine einfachere Instandhaltung. **Es gibt sieben Modelle mit Arbeitskräften von 38 bis 480 kN, Nutzbreite von 52 bis 400 mm, Arbeitswinkel 0° für die Breiten 52, 200, 250, 300 und 400 mm, Arbeitswinkel von 0° bis 20 °** (in 5 ° Schritten) **für die Breiten 65, 100 und 150 mm**, Rückzug mit Schraubendruckfeder oder Gasdruckfeder möglich.

I Le camme a base stampo **DHC** sono adatte a lavorazioni di foratura e flangiatura gravose grazie alla struttura in ghisa sferoidale; garantiscono una maggiore facilità di manutenzione grazie all'utilizzo di piastre bronzo-grafite/acciaio sugli scorrimenti più sollecitati. Sette modelli con **forze di lavoro da 38 a 480 kN. Larghezze utili da 52 a 400 mm, angolo di lavoro 0° per le larghezze 52, 200, 250, 300 e 400 mm, angolo di lavoro da 0° a 20°** (a passi di 5°) **per le larghezze 65, 100 e 150 mm.** Possibilità di ritorno con molla a filo o molla a gas.

# DLD

**DIE MOUNTED CAM UNIT**
**HORIZONTALSCHIEBER**
**UNITÀ A CAMME A BASE STAMPO**



GB **DLD** die mounted cam are best suited for medium/light drilling. They are not suitable for flanging. **Two models** with **work forces from 40 to 79 kN. Widths from 52 to 90 mm, work angle from 0° to 20°** (in 5° steps) **for 52 mm width and work angle from 0° to 15°** (in 5° steps) **for 90 mm width**. Coil spring return only.

D Die Horizontalschieber **DLD** sind für leichte und mittlere Bohrarbeiten geeignet. Sie sind nicht für Bördelarbeiten geeignet. Zwei Modelle mit **Arbeitskraft von 40 bis 79 kN, Nutzbreite von 52 bis 90 mm, Arbeitswinkel 0° bis 20°** (in 5° Schritten) **bei Breite 52, Arbeitswinkel von 0° bis 15°** (in 5° Schritten) **bei Breite 90.** Rückzug nur mit Schraubendruckfeder möglich.

I Le camme a base stampo **DLD** sono adatte a lavorazioni di foratura medio leggere. Non sono idonee a lavorazioni di flangiatura. Due modelli con **forze di lavoro da 40 a 79 kN. Larghezze utili da 52 a 90 mm , angolo di lavoro da 0° a 20°** (a passi di 5°) **per la larghezza 52 e angolo di lavoro da 0° a 15°** (a passi di 5°) **per la larghezza 90.** Possibilità di ritorno solo con molla a filo.

## (GB) CUSTOMIZATIONS ON CAM UNITS WORKING SURFACES

**OMCR** cam units can be supplied customized. The customizations allow to reduce cam units insertion time in the die, freeing machine resources and allowing the user to focus on other die construction activities.
The machining are transmitted by the customer in 3D CAD format and the characteristics can be communicated by the use of the colours in the OEM table on page 670 or according with customer specifications.
**3D CAD data must be received at least 10 days in advance on the delivery date.**

## (D) ANARBEITUNG DER SCHIEBERARBEITSFLÄCHE NACH KUNDENWUNSCH

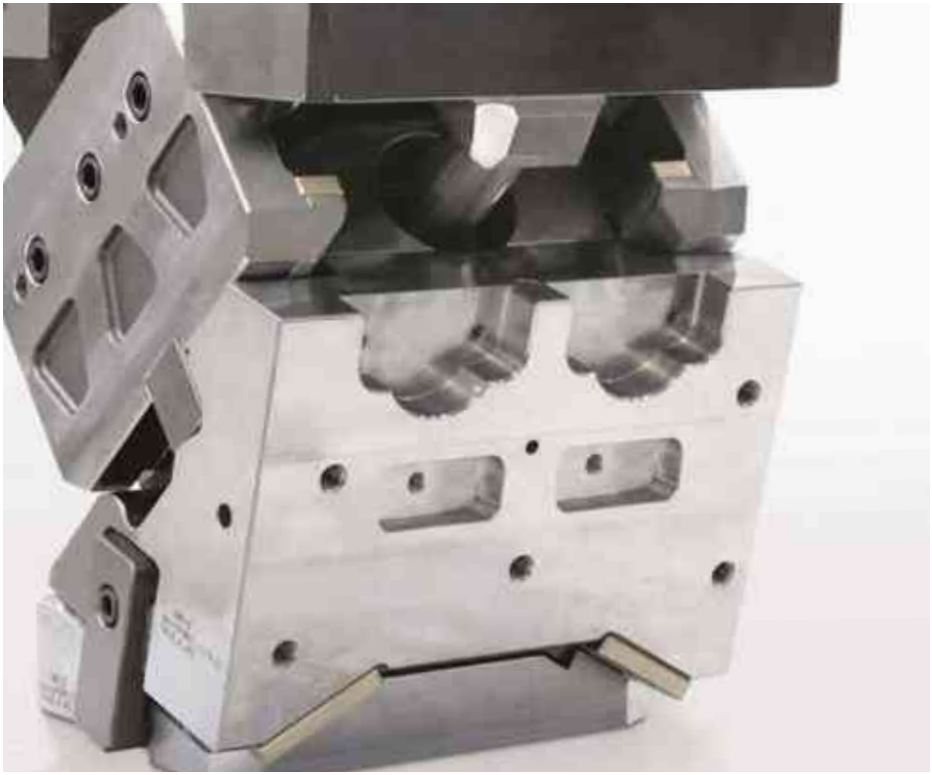
**OMCR** Schieber können mit Anarbeitung nach Kundenwunsch geliefert werden. Die Anarbeitung führt zu einer Reduzierung der Montagezeit des Schiebers in das Werkzeug, wodurch Maschinenressourcen frei werden und der Werkzeugbauer sich anderen Arbeiten widmen kann.
Die Anarbeitungsdaten werden OMCR vom Kunden als 3D CAD Daten übermittelt, die Bearbeitungsart wird über die Farbtabelle der OEMs von Seite 670 oder gemäß Kundenspezifikation mitgeteilt.
**Die 3D Daten müssen mindestens 10 Arbeitstage vor dem gewünschten Liefertermin bei OMCR eintreffen.**

## (I) PERSONALIZZAZIONI SU SUPERFICI DI LAVORO DELLE UNITÀ CAMME

Le unità a camme **OMCR** possono essere fornite personalizzate. Le personalizzazioni permettono di ridurre i tempi d'inserimento delle camme nello stampo liberando risorse macchina e consentono all'utente di dedicarsi ad altre attività di costruzione stampo.
Le lavorazioni vengono trasmesse dal cliente in formato CAD 3D e le caratteristiche possono essere comunicate con l'uso dei colori presenti nella tabella OEM di pagina 670 o secondo specifica del cliente.
**I dati cad 3D devono pervenire con almeno 10 giorni di anticipo sulla data di consegna.**









## HIGHLIGHTS

***Reduction of cam unit assembly time in die.***
***Reduzierung der Montagezeit des Schiebers in das Werkzeug***
***Riduzione dei tempi d'inserimento della camma nello stampo***

***3D CAD data management in formats:*** *CATIA V5 / PARASOLID.*
***3D Datenmanagement in den Formaten:*** *CATIA V5 / PARASOLID.*
***Gestione dati CAD 3D nei formati:*** *CATIA V5 / PARASOLID / IGES.*

***High precision*** *in additional workings realization.*
***Hohe Präzision*** *bei der Durchführung von zusätzlichen Bearbeitungen*
***Elevata precisione*** *di realizzazione delle lavorazioni aggiuntive.*

***Reduction of processing costs.***
***Reduzierung der Bearbeitungskosten***
***Riduzione dei costi di lavorazione.***

| Machining type<br>Bearbeitungstyp<br>Tipologie di lavorazioni | Comment<br>Bemerkung<br>Commenti | CATIA V5<br>RGB values - RGB-Werte - Colori RGB | | | |
|---|---|---|---|---|---|
| | | Colour<br>Farbe<br>Colore | Red<br>Rot<br>Rosso | Green<br>Grün<br>Verde | Blue<br>Blau<br>Blu |
| Areas dependent to method plan<br>Methodenplanabhängige Bereiche<br>Aree dipendenti dal piano metodo | All machining which is not performed according to solid model, but according to separate data record<br>Alle Bearbeitungen, die nicht nach Solid-Modell, sondern nach gesondertem Datensatz durchgeführt werden<br>Lavorazioni che non vengono eseguite secondo un modello 3D, ma secondo dati registrati separatamente | Olive green<br>Olivgrün<br>Oliva | 175 | 255 | 175 |
| Smoothing / finishing<br>Schlichten<br>Levigatura / Finitura | Fine machining (for further details, see work instructions)<br>Feinbearbeitung (Zusatzangaben siehe Arbeitsanweisungen)<br>Lavorazione di finitura (per ulteriori dettagli consultare le istruzioni supplementari di lavoro) | Pink<br>Rosa<br>Rosa | 255 | 175 | 175 |
| Roughing<br>Schruppen<br>Sgrossatura | Rough machining<br>Grobbearbeitung<br>Lavorazione di sgrossatura | Red-Brown<br>Rotbraun<br>Marrone | 095 | 000 | 000 |
| Fitting bore H11<br>Passbohrung H11<br>Forature H11 | Also special milling processing<br>Auch Sonderfräsbearbeitung<br>Anche lavorazioni speciali di fresatura | Blue<br>Blau<br>Blu | 095 | 095 | 175 |
| Fitting bore H8<br>Passbohrung H8<br>Forature H8 | Also special milling processing<br>Auch Sonderfräsbearbeitung<br>Anche lavorazioni speciali di fresatura | Purple<br>Lila<br>Porpora | 095 | 000 | 095 |
| Fitting bore H7<br>Passbohrung H7<br>Forature H7 | Also special milling processing<br>Auch Sonderfräsbearbeitung<br>Anche lavorazioni speciali di fresatura | Blue<br>Blau<br>Blu | 000 | 000 | 255 |
| Fitting bore H6<br>Passbohrung H6<br>Forature H6 | Also special milling processing<br>Auch Sonderfräsbearbeitung<br>Anche lavorazioni speciali di fresatura | Dark Blue<br>Dunkelblau<br>Blu scuro | 000 | 095 | 175 |
| Threads<br>Gewinde<br>Filettatura | Metric right thread according to DIN/ISO<br>Metrisch Rechtsgewinde nach DIN/ISO<br>Filettatura metrica destra secondo DIN/ISO | Yellow<br>Gelb<br>Giallo | 255 | 255 | 000 |
| Fine threads<br>Feingewinde<br>Filettatura fine | Metric fine thread (right) according to DIN/ISO<br>Metrisch Feingewinde (rechts) nach DIN/ISO<br>Filettatura metrica fine destra secondo DIN/ISO | Orange<br>Orange<br>Arancione | 255 | 175 | 000 |
| Spiral lock / special thread<br>Spiralock / Spezialgewinde<br>Spiralock / filettatura speciale | All other special threads<br>Alle sonstigen Spezialgewinde<br>Tutte le altre filettature speciali | Orange<br>Orange<br>Arancione | 255 | 095 | 000 |
| Special bore / stepped bore<br>Sonderbohrung / Stufenbohrung<br>Foratura speciale / Foratura a gradini | Complex bores, combination of bores<br>Komplexe Bohrungen, Kombinationen von Bohrungen<br>Forature complesse, combinazioni di forature | Magenta<br>Magenta<br>Magenta | 255 | 000 | 255 |
| Free bore / simple bore<br>Freibohrung / einfache Bohrung<br>Foratura libera / foratura semplice | Through holes, etc., other countersinks<br>Durchgangslöcher usw., sonstige Ansenkungen<br>Fori passanti ed altre forature | Cyan<br>Cyan<br>Ciano | 000 | 175 | 175 |
| Change areas<br>Änderungsbereiche<br>Campi di modifica | Sphere or Solid with transparency 192<br>Sphäre oder Solid mit Transparenz 192<br>Sfera o Solido con trasparenza 192 | Light Blue<br>HellBlau<br>Azzurro | 000 | 127 | 255 |
| Assembly bores<br>ZSB-Bohrungen<br>Forature di assemblaggio | Assembly features<br>Zusammenbau-Features<br>Caratteristiche di assemblaggio | White<br>Weiß<br>Bianco | 255 | 255 | 255 |



## (GB) SPECIAL CAM UNIT

Thanks to the acquired experience in the manufacture of its wide range of cam units, **OMCR** can offer special or multiple cam units to meet every customer's particular production needs. **Moreover, it is possible to ask for additional workings on normalized cam units.** The images on this Page show some examples of a variety of solutions achievable.

## (D) SONDERSCHIEBER

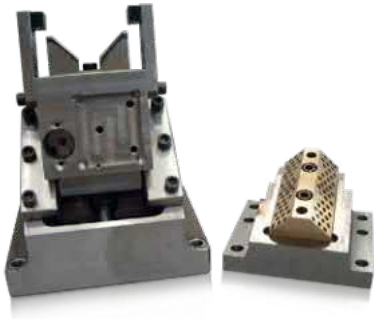
**OMCR** konstruiert und produziert Dank der Erfahrung bei der Herstellung seiner großen Produktpalette an Schiebern auch Sonderschieber nach den spezifischen Projektanforderungen des Kunden, die spezielle Anforderungen bei der Produktion berücksichtigen. **Auch zusätzliche Bearbeitungen an Normschiebern führen wir durch**. Die Bilder auf dieser Seite stellen nur einige Beispiele aus der Vielfalt der realisierbaren Lösungen dar.

## (I) UNITÀ A CAMME SPECIALI

**OMCR,** grazie all'esperienza acquisita nella realizzazione della sua ampia gamma di unità a camme, progetta e costruisce anche unità a camme speciali o multiple su specifiche progettuali del cliente atte a soddisfare particolari esigenze di produzione. **È possibile inoltre richiedere lavorazioni aggiuntive su unità a camme normalizzate**. Le immagini di questa pagina illustrano alcuni esempi della varietà di soluzioni realizzate.



(GB) Die mounted cam unit with 700mm slider width
(D) Horizontalschieber mit einer Schieberbreite von 700 mm
(I) Camma a base stampo con larghezza slitta da 700mm



(GB) Cam units with additional workings on slider
(D) Schieber mit angearbeiteter Schieberarbeitsfläche
(I) Unità a camme con lavorazioni personalizzate sulla slitta



(GB) Multiple aerial cam unit
(D) oben hängender zweifacher Schieber
(I) Unità a camme sospesa multipla


OMCR
OMCR

### (GB) DOWNLOAD CAM DATA

On **www.omcr.it** you can find, besides CAD 3D (CATIA V5, STEP) data, specific technical information and the catalogue in PDF format.

### (D) DOWNLOAD SCHIEBERDATEN

Auf **www.omcr.it** finden Sie abgesehen von den 3D CAD Daten (CATIA V5, STEP) auch spezifische technische Informationen, unseren Katalog als pdf-Datei und Eine Suchmaschine.

### (I) DOWNLOAD DATI CAMME

Su **www.omcr.it** è possibile trovare, oltre ai dati CAD 3D (CATIA V5, STEP), informazioni tecniche specifiche, e il catalogo in formato PDF.




Download from our web-site all the information about OMCR Cam Units.

Alle Informationen über Schieber von OMCR können Sie von unserer Internetseite downloaden.

Scarica dal nostro sito web tutte le informazioni sulle Unità a Camme OMCR.

### (GB) CAM SEARCH

By consulting the search engine on our website, you can choose the most suitable cam units for any type of project by way of information regarding **forces**, **price** and **delivery time**.

### (D) SCHIEBERSUCHE

Über die Suchmaschine auf unserer Internetseite können Sie den für das jeweilige Projekt am besten geeigneten Schieber anhand von Informationen zu **Kraft**, **Preis** und **Lieferzeit auswählen**.

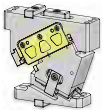
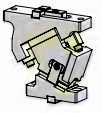
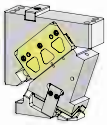
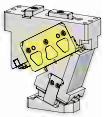
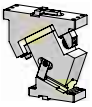
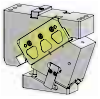
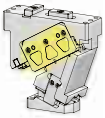
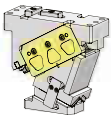
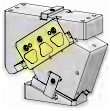
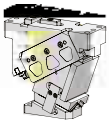
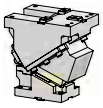
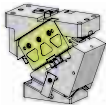
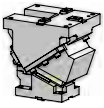
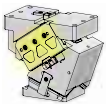
### (I) RICERCA CAMME

Consultando il motore di ricerca sul nostro sito, puoi scegliere l'unità a camma più adatta ad ogni tipo di progetto attraverso informazioni di **forza**, **prezzo** e **tempi di consegna**.

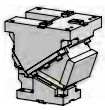
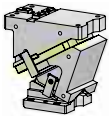
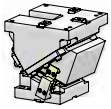
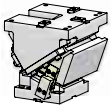
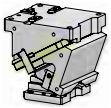
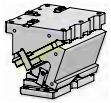
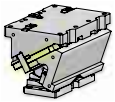
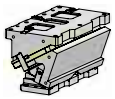



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Visita la pagina Ricerca Camme sul nostro sito web.

# Aerial Cam Units
# Oben Hängender Schieber
# Unità a Camme Sospese

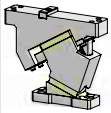
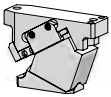
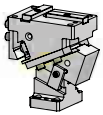
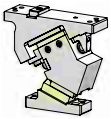
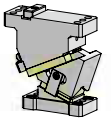
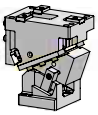
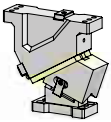
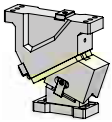
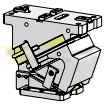
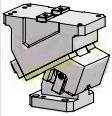
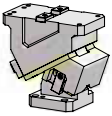
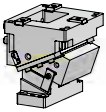
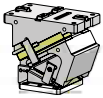
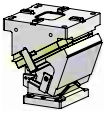
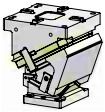
| SLIDER WIDTH (mm) | CHD | CHV | CHW | CLB |
|---|---|---|---|---|
| 50÷52 | **CHD050** 688<br><br>Work Angle 0÷65°<br>Work Force 60 kN | **CHV050** 726<br><br>Work Angle 0÷75°<br>Work Force 92÷110 kN | | |
| 60÷65 | **CHD065** 692<br><br>Work Angle 0÷65°<br>Work Force 60 kN | **CHV060** 730<br><br>Work Angle 0÷75°<br>Work Force 136÷143 kN | **CHW065** 780<br><br>Work Angle 0÷75°<br>Work Force 210÷230 kN | |
| 80÷85 | **CHD080** 696<br><br>Work Angle 0÷65°<br>Work Force 149 kN | **CHV085** 734<br><br>Work Angle 0÷75°<br>Work Force 229÷293 kN | **CHW085** 784<br><br>Work Angle 0÷75°<br>Work Force 210÷230 kN | |
| 90÷100 | **CHD100** 700<br><br>Work Angle 0÷65°<br>Work Force 149 kN | | **CHW090** 788<br><br>Work Angle 0÷75°<br>Work Force 250÷320 kN | |
| 110 | | **CHV110** 738<br><br>Work Angle 0÷75°<br>Work Force 357÷407 kN | **CHW110** 792<br><br>Work Angle 0÷75°<br>Work Force 250÷320 kN | |
| 150 | **CHD150** 704<br><br>Work Angle 0÷65°<br>Work Force 391 kN | **CHV150** 742<br><br>Work Angle 0÷75°<br>Work Force 421÷584 kN | | |
| 180 | **CHD180** 708<br><br>Work Angle 0÷65°<br>Work Force 396 kN | **CHV180** 746<br><br>Work Angle 0÷75°<br>Work Force 474÷598 kN | | |

# Aerial Cam Units
# Oben Hängender Schieber
# Unità a Camme Sospese

| SLIDER WIDTH (mm) | CHD | CHV | CHW | CLB |
|---|---|---|---|---|
| 200÷220 | **CHD200** 712<br><br>Work Angle 0÷65°<br>Work Force 396 kN | **CHV220** 750<br><br>Work Angle 0÷75°<br>Work Force 635÷732 kN | | **CLB200** 798<br><br>Work Angle 0÷60°<br>Work Force 302 kN |
| 250÷260 | **CHD250** 716<br><br>Work Angle 0÷65°<br>Work Force 645 kN | **CHV260** 754<br><br>Work Angle 0÷75°<br>Work Force 536÷767 kN | | |
| 300÷330 | **CHD300** 720<br><br>Work Angle 0÷65°<br>Work Force 645 kN | **CHV330** 758<br><br>Work Angle 0÷75°<br>Work Force 1006÷1020kN | | **CLB300** 802<br><br>Work Angle 0÷60°<br>Work Force 411 kN |
| 400 | | **CHV400** 762<br><br>Work Angle 0÷75°<br>Work Force 1052÷1055 kN | | **CLB400** 806<br><br>Work Angle 0÷60°<br>Work Force 526 kN |
| 500 | | **CHV500** 766<br><br>Work Angle 0÷75°<br>Work Force 1155 kN | | **CLB500** 810<br><br>Work Angle 0÷60°<br>Work Force 743 kN |
| 600 | | **CHV600** 772<br><br>Work Angle 0÷75°<br>Work Force 1202 kN | | **CLB600** 814<br><br>Work Angle 0÷60°<br>Work Force 865 kN |



# Aerial Cam Units
# Oben Hängender Schieber
# Unità a Camme Sospese

| SLIDER WIDTH (mm) | CHK | CHR | CLC | CLD/CLF |
|---|---|---|---|---|
| 50÷52 | | | **CLC050** 860<br><br>Work Angle 0÷70°<br>Work Force 41 kN | **CLD052** 878<br><br>Work Angle 0÷80°<br>Work Force 31 kN |
| 65÷70 | **CHK065** 820<br><br>Work Angle 0÷70°<br>Work Force 58 kN | **CHR070** 834<br><br>Work Angle 0÷60°<br>Work Force 90 kN | **CLC065** 864<br><br>Work Angle 0÷70°<br>Work Force 42 kN | |
| 80÷100 | **CHK100** 824<br><br>Work Angle 0÷70°<br>Work Force 96 kN | **CHR080** 838<br><br>Work Angle 0÷60°<br>Work Force 153 kN | **CLC080** 868<br><br>Work Angle 0÷70°<br>Work Force 83 kN | **CLF080** 884<br><br>Work Angle 0÷70°<br>Work Force 116 kN |
| 150÷165 | | **CHR165** 842<br><br>Work Angle 0÷60°<br>Work Force 340 kN | **CLC150** 872<br><br>Work Angle 0÷70°<br>Work Force 140 kN | **CLF150** 888<br><br>Work Angle 0÷70°<br>Work Force 192 kN |
| 200 | **CHK200** 828<br><br>Work Angle 0÷70°<br>Work Force 231 kN | **CHR200** 846<br><br>Work Angle 0÷60°<br>Work Force 408 kN | | |
| 300 | | **CHR300** 850<br><br>Work Angle 0÷60°<br>Work Force 521 kN | | |
| 400 | | **CHR400** 854<br><br>Work Angle 0÷60°<br>Work Force 521 kN | | |

**Roller Cam Units**
**Rollenschieber**
**Unità a Camme a Rullo**

**Roller Cam Driver**
**Treiber für rollenschieber**
**Cuneo per camme a rullo**

| SLIDER WIDTH (mm) | CRX | ROLLER CAM MODEL | DCRX |
|---|---|---|---|

## 78

### CRX01 — 894

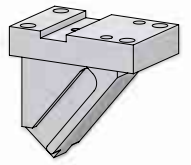


Work Angle -15÷50°

Work Force 4,4 kN

### DCRX0100 — 924

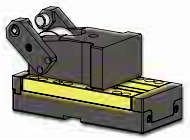
CRX01.030
CRX01.050



Work Angle -15÷50°

## 98

### CRX03 — 900



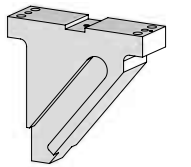
Work Angle -15÷50°

Work Force 76 kN

### DCRX0305 — 926

CRX03.050
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CRX03.100

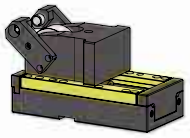
CRX05.050
CRX05.080
CRX05.100



Work Angle -15÷50°

## 118

### CRX05 — 906

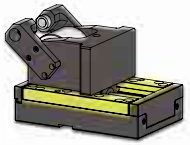


Work Angle -15÷50°

Work Force 162 kN

## 170

### CRX15 — 912



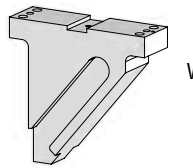
Work Angle -15÷50°

Work Force 166 kN

### DCRX1520 — 928

CRX15.050
CRX15.080
CRX15.100

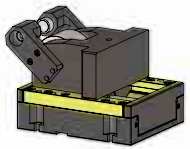
CRX20.050
CRX20.080
CRX20.100



Work Angle -15÷50°

## 240

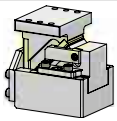
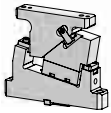
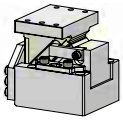
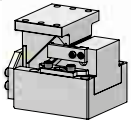
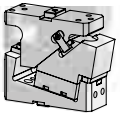
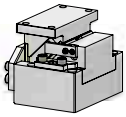
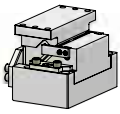
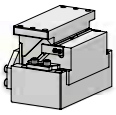
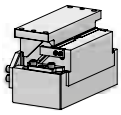
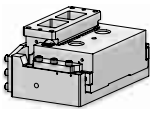
### CRX20 — 918



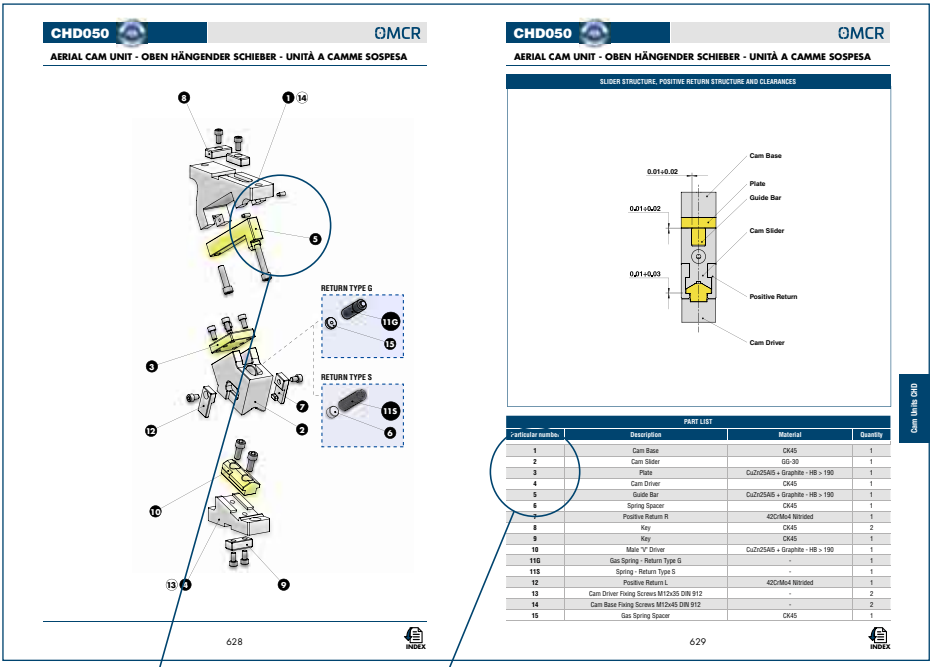
Work Angle -15÷50°

Work Force 258 kN

# Die Mounted Cam Units
# Horizontalschieber
# Unità a Camme a Base Stampo

| SLIDER WIDTH (mm) | DHC | | DLD | |
|---|---|---|---|---|
| 52 | DHC052 932 |  Work Angle 0° Work Force 38 kN | DLD052 966 |  Work Angle 0°÷20° Work Force 40 kN |
| 65 | DHC065 936 |  Work Angle 0°÷20° Work Force 44÷48 kN | | |
| 90÷100 | DHC100 940 |  Work Angle 0°÷20° Work Force 75÷82 kN | DLD090 970 |  Work Angle 0°÷20° Work Force 79 kN |
| 150 | DHC150 944 |  Work Angle 0°÷20° Work Force 120÷127 kN | | |
| 200 | DHC200 948 |  Work Angle 0° Work Force 176 kN | | |
| 250 | DHC250 952 |  Work Angle 0° Work Force 232 kN | | |
| 300 | DHC300 956 |  Work Angle 0° Work Force 272 kN | | |
| 400 | DHC400 960 |  Work Angle 0° Work Force 480 kN | | |

# Order example for replacement
# Bestellbeispiel für Ersatz
# Esempio d'ordine per particolari di ricambio



CHD050 OMCR

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

RETURN TYPE G

RETURN TYPE S

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INDEX

CHD050 OMCR

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

0,01÷0,02
0,01÷0,02
0,01÷0,03

Cam Base
Plate
Guide Bar
Cam Slider
Positive Return
Cam Driver

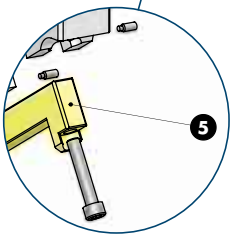
PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Cam Slider | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | CK45 | 1 |
| 5 | Guide Bar | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Spring Spacer | CK45 | 1 |
| 7 | Positive Return R | 42CrMo4 Nitrided | 1 |
| 8 | Key | CK45 | 2 |
| 9 | Key | CK45 | 1 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11G | Gas Spring - Return Type G | - | 1 |
| 11S | Spring - Return Type S | - | 1 |
| 12 | Positive Return L | 42CrMo4 Nitrided | 1 |
| 13 | Cam Driver Fixing Screws M12x35 DIN 912 | - | 2 |
| 14 | Cam Base Fixing Screws M12x45 DIN 912 | - | 2 |
| 15 | Gas Spring Spacer | CK45 | 1 |

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INDEX

Cam Units CHD




| Particular number |
|---|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |





| ORDER EXAMPLE | Cam Unit serial number | Omcr code | Particular number |
|---|---|---|---|
| | 0512390 | CHD050.65 | 5 |

GB Cam serial number
D Schieber Seriennummer
I Numero seriale dell'unità a camme



# F = (Rm x Sp x L)/1000

**CALCULATION OF TRIM FORCE:**

**F** = *Trim force (kN)*

**Rm** = *Tensile strength of the material (N/mm²)*

**Sp** = *Material thickness (mm)*

**L** = *Trim profile lenght (mm)*

**BERECHNUNG DER KRÄFTE BEIM STANZEN:**

**F** = *Stanzkraft (kN)*

**Rm** = *Scherfestigkeit (N/mm²)*

**Sp** = *Blechdicke (mm)*

**L** = *Stanzumfang (mm)*

**CALCOLO DELLA FORZA DI TRANCIATURA:**

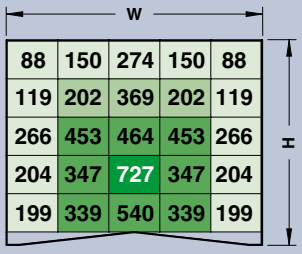
**F** = *Forza di tranciatura (kN)*

**Rm** = *Resistenza meccanica lamiera (N/mm²)*

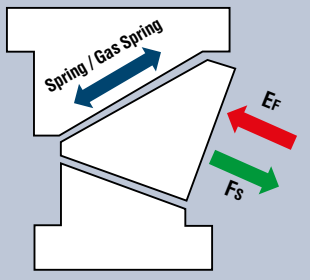
**Sp** = *Spessore lamiera (mm)*

**L** = *Lunghezza profilo di tranciatura (mm)*

## WORK FORCE DISTRIBUTION EXAMPLE




## EXTRACTION FORCE DIAGRAM




## (GB) INFOS TO OBTAIN MAXIMUM PERFORMANCE:

- Fix the Cam Unit to the shoulder (for other applications consult technical info).
- The resultant of the shearing forces should be applied to the central area of the slider and perpendicular to the work surface (for work force diagrams consult the technical info on our website).
- It is recommended that the sliding elements be lubricated during startup and at every 100.000 cycles.

## (D) UM BESTE ERGEBNISSE ZU ERZIELEN:

- Schieber mit Schulterung montieren (andere Anwendung siehe technische Informationen).
- Die Resultante der Schneidkräfte muss im mittleren Bereich des Schiebers und senkrecht zur Arbeitsfläche sein (für die Kraftdiagramme siehe technische Informationen auf unserer Webseite).
- Es wird empfohlen, die Führungselemente bei der Montage des Schiebers und alle 100.000 Zyklen zu schmieren.

## (I) PER OTTENERE LE MASSIME PRESTAZIONI:

- Applicare la camma in spallamento (per altre applicazioni consultare le info tecniche).
- La risultante delle forze di tranciatura deve essere applicata nella zona centrale della slitta e perpendicolare al piano di lavoro (per i diagrammi delle forze di lavoro consultare le info tecniche sul nostro sito intenet).
- Si consiglia di lubrificare gli elementi di guida in fase di messa a punto della camma e ogni 100.000 cicli.

## (GB) EXTRACTION FORCE CALCULATION

The extraction force **EF** is the available effective force on the slider in the work direction β.

The required extraction force **EFR** is about 5% of the force needed (F*) to cut an open profile and 10% of the force needed to cut a closed profile.

**EFR ≠ EF**

The gas spring force (**GF**) operates in the direction of the gas spring.

The extraction force **EF ≠ GF**

For **Aerial Cam Units** the force of extraction of the gas spring, in the work direction (**GFW**) is calculated with the formula:

**GFW = GF*Cos α**

For **Die Mounted Cam Units** and **Roller Cam Units** the gas spring force should be completely regarded as

**GFW = GF**

**NOTE:**
If more extraction force is required (**EFR>EF**), increase **EF** using elastic elements or blank holders in front of the slider in order to help the extraction of the punch.

## (D) BERECHNUNG DER RÜCKZUGSKRAFT

Die Rückzugskraft **EF** ist die effektiv am Schieber verfügbare Rückzugskraft in Arbeitsrichtung β.

Die benötigte Rückzugskraft **EFR** beträgt ungefähr 5% der notwendigen Arbeitskraft (F*) zum Stanzen eines offenen Schnittes und bis zu 10% der notwendigen Arbeitskraft zum Stanzen eines geschlossenen Schnittes.

**EFR ≠ EF**

Die Gasdruckfederkraft (**GF**) wirkt in die Hubrichtung der Gasdruckfeder.

Die Rückzugskraft **EF ≠ GF**

Für **oben hängende Schieber** wird die Rückzugskraft der Gasdruckfeder in Arbeitsrichtung (**GFW**) mit folgender Formel berechnet:

**GFW = GF*Cos α**

Für **Schieber am WZ Unterteil** und **Rollenschieber** kann die Kraft der Gasdruckfeder komplett berücksichtigt werden:

**GFW = GF**

**ANMERKUNG:**

Wird eine höhere Rückzugskraft benötigt (**EFR>EF**), muss **EF** durch den Einsatz von Elastomer- oder Gasdruckfedern auf der Arbeitsfläche, die in Arbeitsrichtung arbeiten, erhöht werden.

## (I) CALCOLO DELLA FORZA D'ESTRAZIONE

La forza di estrazione **EF** é la forza effettiva disponibile sulla slitta nella direzione di lavoro β.

La forza di estrazione richiesta **EFR** è circa il 5% della forza necessaria (F*) a tagliare un profilo aperto e il 10% della forza necessaria (F*) a tagliare un profilo chiuso.

**EFR ≠ EF**

La forza della molla a gas (**GF**) opera nella direzione di corsa della molla a gas.

La forza di estrazione **EF ≠ GF**

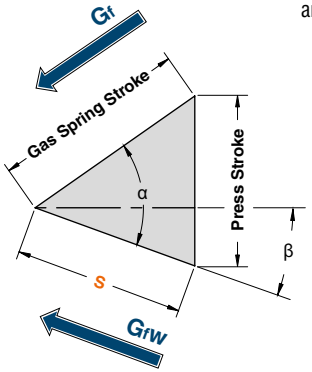
Per le **Camme Aeree** la forza di estrazione della molla a gas nella direzione di lavoro (**GFW**) è calcolata con la formula:

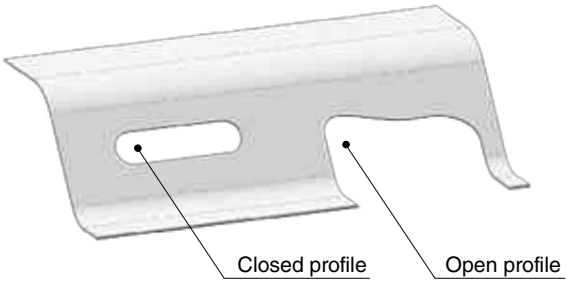
**GFW = GF*Cos α**

Per le **Camme a Base Stampo** e per le **Camme a Rullo** la forza della molla a gas può essere considerata completamente

**GFW = GF**

**NOTE:**
Se é necessaria una maggiore forza di estrazione (**EFR>EF**), incrementare **EF** utilizzando elementi elastici o premilamiera davanti alla slitta per facilitare l'estrazione del punzone dalla matrice.





# Cam Units CHD
# Schieber CHD
# Unità a Camme CHD

OMCR®
STANDARD DIE COMPONENTS

INDEX

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | | Page number |
|---|---|---|---|---|---|---|---|---|
| | | | | | | $E_F$ | | |
| | β | | | | $F_S$ | Spring | Gas Spring | |
| **CHD050** | 0°÷65° (5° steps) | 50 | 180 | 50x65 | 60 | 1,14÷1,31 | 1,44÷1,72 | 688 |
| **CHD065** | 0°÷65° (5° steps) | 65 | 180 | 65x65 | 60 | 1,14÷1,31 | 1,44÷1,72 | 692 |
| **CHD080** | 0°÷65° (5° steps) | 80 | 275 | 80x88 | 149 | 1,13÷1,37 | 1,50÷1,85 | 696 |
| **CHD100** | 0°÷65° (5° steps) | 100 | 275 | 100x88 | 149 | 1,13÷1,37 | 1,50÷1,85 | 700 |
| **CHD150** | 0°÷65° (5° steps) | 150 | 355 | 150x120 | 391 | 2,29 | 7,15 | 704 |
| **CHD180** | 0°÷65° (5° steps) | 180 | 355 | 180x120 | 396 | 2,29 | 7,15 | 708 |
| **CHD200** | 0°÷65° (5° steps) | 200 | 355 | 200x120 | 396 | 2,29 | 7,15 | 712 |
| **CHD250** | 0°÷65° (5° steps) | 250 | 355 | 250x160 | 645 | 4,58 | 14,30 | 716 |
| **CHD300** | 0°÷65° (5° steps) | 300 | 355 | 300x160 | 645 | 4,58 | 14,30 | 720 |

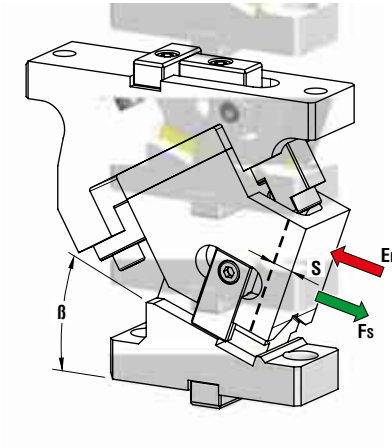






High stock availability

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD050.00 | 0° | 14,98 | 60 | 1,31 | 1,72 |
| CHD050.05 | 5° | 15,62 | 60 | 1,30 | 1,67 |
| CHD050.10 | 10° | 15,64 | 60 | 1,14 | 1,60 |
| CHD050.15 | 15° | 16,96 | 60 | 1,14 | 1,60 |
| CHD050.20 | 20° | 18,43 | 60 | 1,14 | 1,60 |
| CHD050.25 | 25° | 18 | 60 | 1,29 | 1,53 |
| CHD050.30 | 30° | 17,36 | 60 | 1,17 | 1,47 |
| CHD050.35 | 35° | 18,87 | 60 | 1,17 | 1,47 |
| CHD050.40 | 40° | 20,57 | 60 | 1,17 | 1,47 |
| CHD050.45 | 45° | 22,54 | 60 | 1,17 | 1,47 |
| CHD050.50 | 50° | 23,34 | 60 | 1,17 | 1,44 |
| CHD050.55 | 55° | 26,05 | 60 | 1,17 | 1,44 |
| CHD050.60 | 60° | 31,51 | 60 | 1,17 | 1,47 |
| CHD050.65 | 65° | 36,57 | 60 | 1,17 | 1,47 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |

*Return Type: **G** = *Gas Spring* / **S** = *Spring*

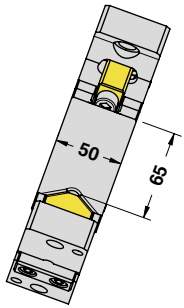
15 ORDER EXAMPLE

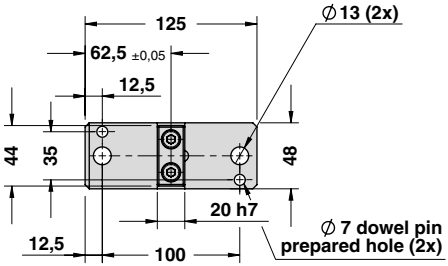
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHD050 | 05 | G | SL55 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CHD050.00 | 0° | 185 | 67,50 | 80 | 205 |
| CHD050.05 | 5° | 188,04 | 68,29 | 75 | 200 |
| CHD050.10 | 10° | 185,99 | 69,77 | 65 | 190 |
| CHD050.15 | 15° | 188,77 | 71,95 | 65 | 190 |
| CHD050.20 | 20° | 186,34 | 74,79 | 55 | 180 |
| CHD050.25 | 25° | 181,62 | 80,28 | 41 | 166 |
| CHD050.30 | 30° | 180,58 | 85,39 | 40 | 165 |
| CHD050.35 | 35° | 177,15 | 90,10 | 25 | 150 |
| CHD050.40 | 40° | 173,29 | 95,35 | 22,5 | 147,5 |
| CHD050.45 | 45° | 169,94 | 98,13 | 10 | 135 |
| CHD050.50 | 50° | 164,07 | 99,37 | 5 | 130 |
| CHD050.55 | 55° | 158,64 | 111,04 | -15 | 110 |
| CHD050.60 | 60° | 152,61 | 118,08 | -25 | 100 |
| CHD050.65 | 65° | 145,95 | 125,44 | -35 | 90 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

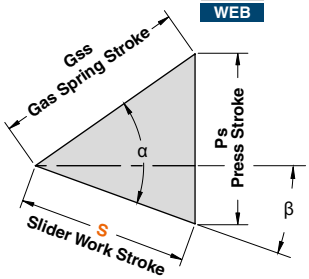
### X VIEW

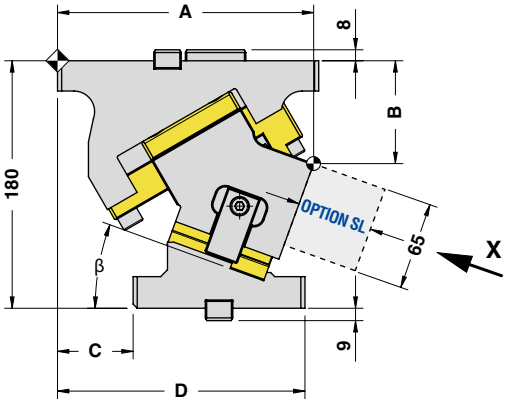


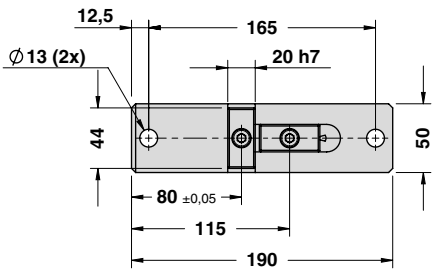

### CAM DIAGRAM

WEB

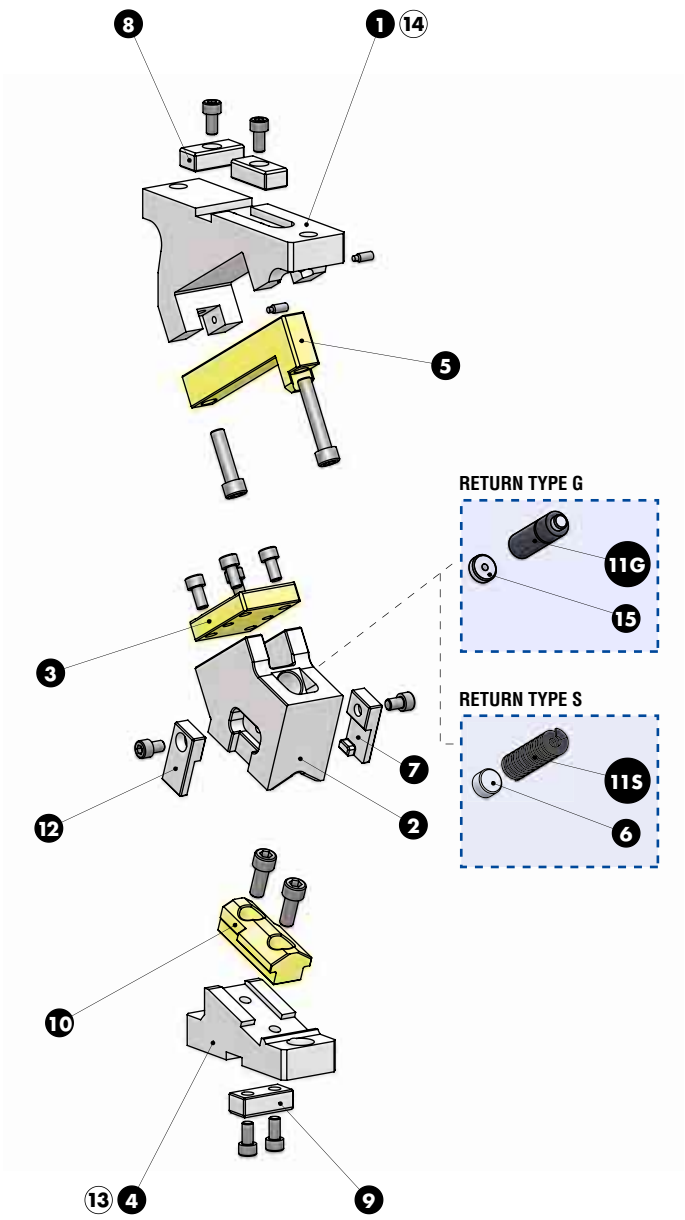



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 14,98 | 17,85 | 23,3 |
| 5° | 50° | 15,62 | 16,92 | 22 |
| 10° | 50° | 15,64 | 15,64 | 20,1 |
| 15° | 50° | 16,96 | 15,86 | 20 |
| 20° | 50° | 18,43 | 16,30 | 20 |
| 25° | 50° | 18,00 | 15,21 | 18 |
| 30° | 50° | 17,36 | 14,15 | 16 |
| 35° | 50° | 18,87 | 14,96 | 16 |
| 40° | 50° | 20,57 | 16,00 | 16 |
| 45° | 50° | 22,54 | 17,33 | 16 |
| 50° | 50° | 23,34 | 17,88 | 15 |
| 55° | 50° | 26,05 | 20,03 | 15 |
| 60° | 50° | 31,51 | 24,51 | 16 |
| 65° | 50° | 36,57 | 29,00 | 16 |

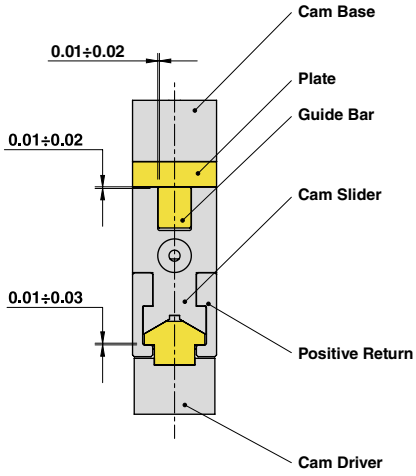


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

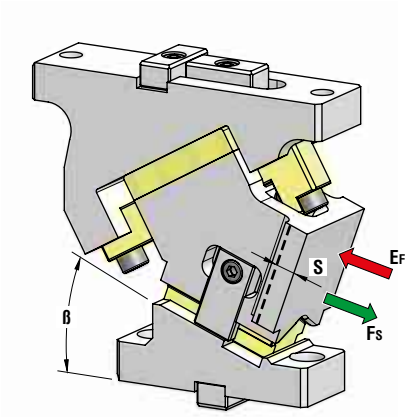





**PART LIST**

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Cam Slider | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | CK45 | 1 |
| 5 | Guide Bar | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Spring Spacer | CK45 | 1 |
| 7 | Positive Return R | 42CrMo4 Nitrided | 1 |
| 8 | Key | CK45 | 2 |
| 9 | Key | CK45 | 1 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11G | Gas Spring - Return Type G | - | 1 |
| 11S | Spring - Return Type S | - | 1 |
| 12 | Positive Return L | 42CrMo4 Nitrided | 1 |
| 13 | Cam Driver Fixing Screws M12x35 DIN 912 | - | 2 |
| 14 | Cam Base Fixing Screws M12x45 DIN 912 | - | 2 |
| 15 | Gas Spring Spacer | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




3D STEP WEB | 3D CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD065.00 | 0° | 14,98 | 60 | 1,31 | 1,72 |
| CHD065.05 | 5° | 15,62 | 60 | 1,30 | 1,67 |
| CHD065.10 | 10° | 15,64 | 60 | 1,14 | 1,60 |
| CHD065.15 | 15° | 16,96 | 60 | 1,14 | 1,60 |
| CHD065.20 | 20° | 18,43 | 60 | 1,14 | 1,60 |
| CHD065.25 | 25° | 18 | 60 | 1,29 | 1,53 |
| CHD065.30 | 30° | 17,36 | 60 | 1,17 | 1,47 |
| CHD065.35 | 35° | 18,87 | 60 | 1,17 | 1,47 |
| CHD065.40 | 40° | 20,57 | 60 | 1,17 | 1,47 |
| CHD065.45 | 45° | 22,54 | 60 | 1,17 | 1,47 |
| CHD065.50 | 50° | 23,34 | 60 | 1,17 | 1,44 |
| CHD065.55 | 55° | 26,05 | 60 | 1,17 | 1,44 |
| CHD065.60 | 60° | 31,51 | 60 | 1,17 | 1,47 |
| CHD065.65 | 65° | 36,57 | 60 | 1,17 | 1,47 |

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |

*Return Type: **G** = *Gas Spring* / **S** = *Spring*

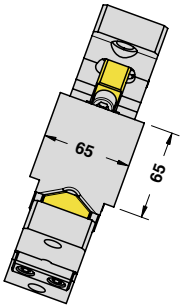
15 ORDER EXAMPLE

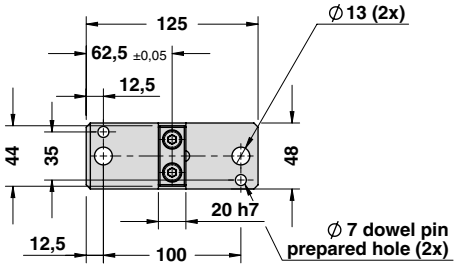
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHD065 | 05 | G | SL55 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CHD065.00 | 0° | 185 | 67,50 | 80 | 205 |
| CHD065.05 | 5° | 188,04 | 68,29 | 75 | 200 |
| CHD065.10 | 10° | 185,99 | 69,77 | 65 | 190 |
| CHD065.15 | 15° | 188,77 | 71,95 | 65 | 190 |
| CHD065.20 | 20° | 186,34 | 74,79 | 55 | 180 |
| CHD065.25 | 25° | 181,62 | 80,28 | 41 | 166 |
| CHD065.30 | 30° | 180,58 | 85,39 | 40 | 165 |
| CHD065.35 | 35° | 177,15 | 90,10 | 25 | 150 |
| CHD065.40 | 40° | 173,29 | 95,35 | 22,5 | 147,5 |
| CHD065.45 | 45° | 169,94 | 98,13 | 10 | 135 |
| CHD065.50 | 50° | 164,07 | 99,37 | 5 | 130 |
| CHD065.55 | 55° | 158,64 | 111,04 | -15 | 110 |
| CHD065.60 | 60° | 152,61 | 118,08 | -25 | 100 |
| CHD065.65 | 65° | 145,95 | 125,44 | -35 | 90 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

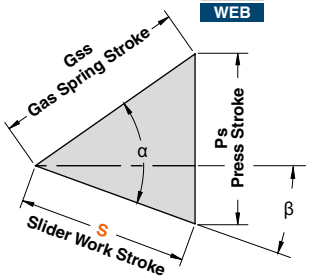
### X VIEW

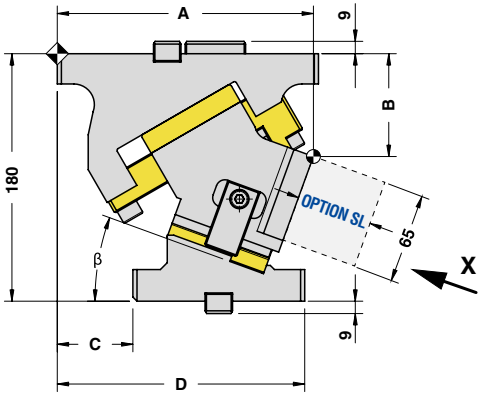


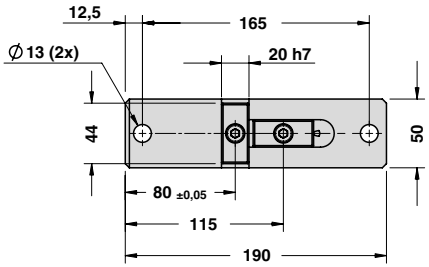

### CAM DIAGRAM

WEB

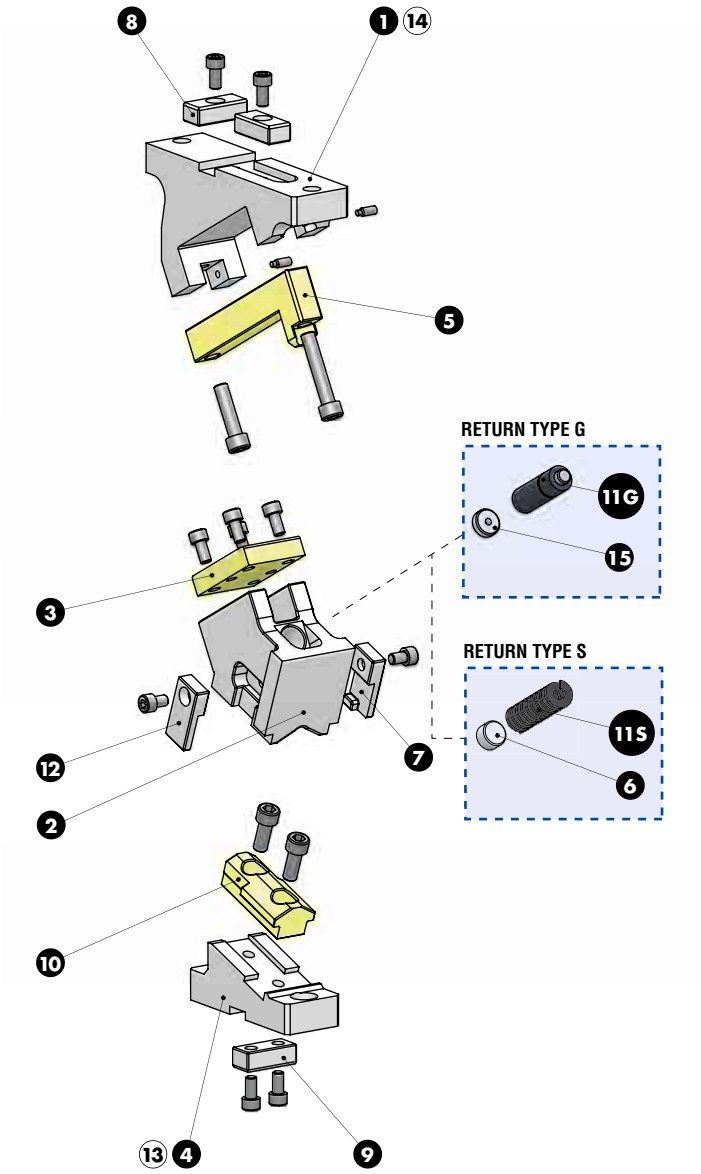



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 14,98 | 17,85 | 23,3 |
| 5° | 50° | 15,62 | 16,92 | 22 |
| 10° | 50° | 15,64 | 15,64 | 20,1 |
| 15° | 50° | 16,96 | 15,86 | 20 |
| 20° | 50° | 18,43 | 16,30 | 20 |
| 25° | 50° | 18,00 | 15,21 | 18 |
| 30° | 50° | 17,36 | 14,15 | 16 |
| 35° | 50° | 18,87 | 14,96 | 16 |
| 40° | 50° | 20,57 | 16,00 | 16 |
| 45° | 50° | 22,54 | 17,33 | 16 |
| 50° | 50° | 23,34 | 17,88 | 15 |
| 55° | 50° | 26,05 | 20,03 | 15 |
| 60° | 50° | 31,51 | 24,51 | 16 |
| 65° | 50° | 36,57 | 29,00 | 16 |

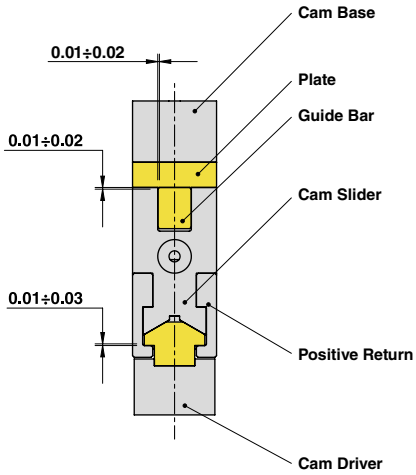


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

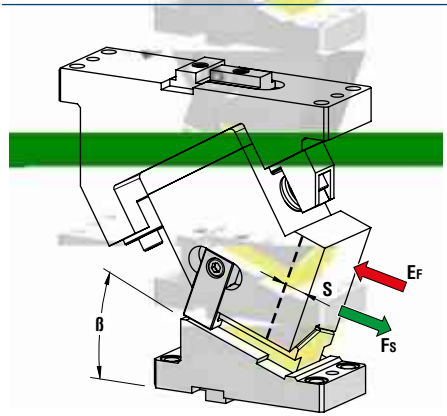





## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Cam Slider | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | CK45 | 1 |
| 5 | Guide Bar | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Spring Spacer | CK45 | 1 |
| 7 | Positive Return R | 42CrMo4 Nitrided | 1 |
| 8 | Key | CK45 | 2 |
| 9 | Key | CK45 | 1 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11G | Gas Spring - Return Type G | - | 1 |
| 11S | Spring - Return Type S | - | 1 |
| 12 | Positive Return L | 42CrMo4 Nitrided | 1 |
| 13 | Cam Driver Fixing Screws M12x35 DIN 912 | - | 2 |
| 14 | Cam Base Fixing Screws M12x45 DIN 912 | - | 2 |
| 15 | Gas Spring Spacer | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD080.00 | 0° | 30,21 | 149 | 1,37 | 1,85 |
| CHD080.05 | 5° | 30,52 | 149 | 1,37 | 1,76 |
| CHD080.10 | 10° | 31,11 | 149 | 1,37 | 1,69 |
| CHD080.15 | 15° | 33,92 | 149 | 1,37 | 1,69 |
| CHD080.20 | 20° | 32,26 | 149 | 1,25 | 1,59 |
| CHD080.25 | 25° | 35 | 149 | 1,25 | 1,59 |
| CHD080.30 | 30° | 34,72 | 149 | 1,25 | 1,54 |
| CHD080.35 | 35° | 37,73 | 149 | 1,25 | 1,54 |
| CHD080.40 | 40° | 39,85 | 149 | 1,25 | 1,52 |
| CHD080.45 | 45° | 43,67 | 149 | 1,25 | 1,52 |
| CHD080.50 | 50° | 46,67 | 149 | 1,13 | 1,50 |
| CHD080.55 | 55° | 53,84 | 149 | 1,25 | 1,52 |
| CHD080.60 | 60° | 61,06 | 149 | 1,25 | 1,52 |
| CHD080.65 | 65° | 70,85 | 149 | 1,25 | 1,52 |

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |

*Return Type: **G** = *Gas Spring* / **S** = *Spring*

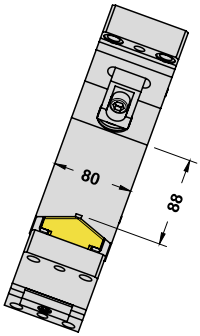
15 ORDER EXAMPLE

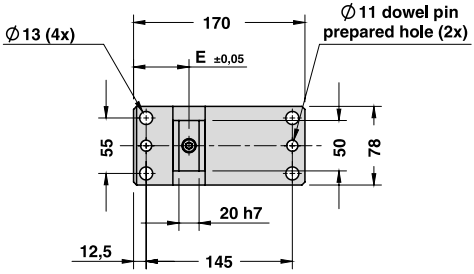
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHD080 | 05 | G | SL55 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHD080.00 | 0° | 277 | 110 | 135 | 305 | 65 |
| CHD080.05 | 5° | 278,32 | 115,67 | 125 | 295 | 65 |
| CHD080.10 | 10° | 274,54 | 117,32 | 110 | 280 | 65 |
| CHD080.15 | 15° | 277,58 | 119,95 | 105 | 275 | 55 |
| CHD080.20 | 20° | 273,34 | 123,52 | 95 | 265 | 55 |
| CHD080.25 | 25° | 268,75 | 128,03 | 80 | 250 | 55 |
| CHD080.30 | 30° | 261,73 | 133,42 | 65 | 235 | 60 |
| CHD080.35 | 35° | 258,20 | 139,66 | 55 | 225 | 60 |
| CHD080.40 | 40° | 245,09 | 146,70 | 35 | 205 | 50 |
| CHD080.45 | 45° | 245,34 | 154,49 | 30 | 200 | 50 |
| CHD080.50 | 50° | 225,87 | 162,97 | 5 | 175 | 50 |
| CHD080.55 | 55° | 229,64 | 172,07 | 0 | 170 | 60 |
| CHD080.60 | 60° | 208,58 | 181,73 | -20 | 150 | 50 |
| CHD080.65 | 65° | 203,67 | 191,87 | -30 | 140 | 50 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

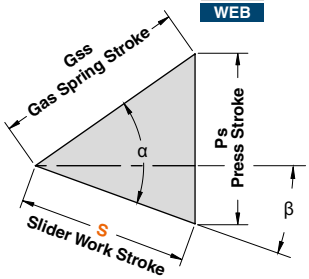
### X VIEW

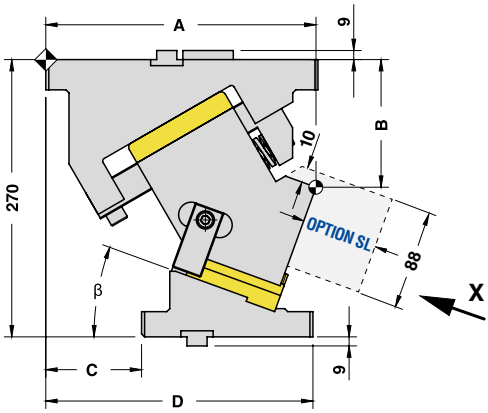


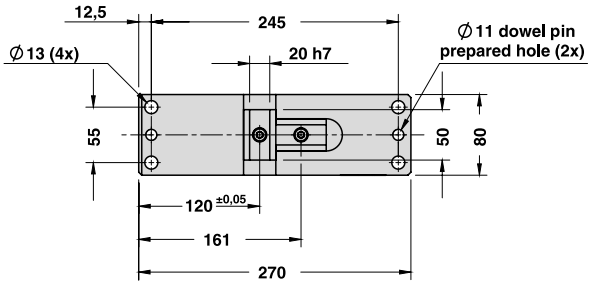

### CAM DIAGRAM

WEB

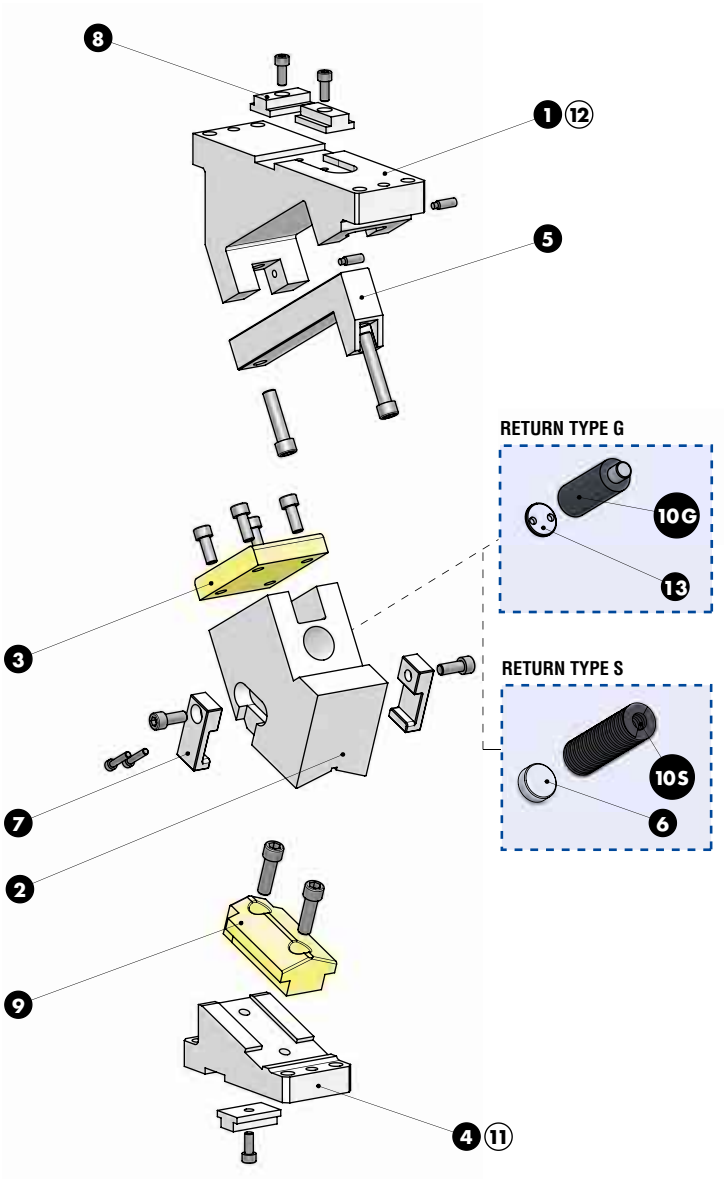



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 30,21 | 36,00 | 47 |
| 5° | 50° | 30,52 | 33,07 | 43 |
| 10° | 50° | 31,11 | 31,11 | 40 |
| 15° | 50° | 33,92 | 31,72 | 40 |
| 20° | 50° | 32,26 | 28,53 | 35 |
| 25° | 50° | 35,00 | 29,58 | 35 |
| 30° | 50° | 34,72 | 28,31 | 32 |
| 35° | 50° | 37,73 | 29,93 | 32 |
| 40° | 50° | 39,85 | 31,00 | 31 |
| 45° | 50° | 43,67 | 33,58 | 31 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 55° | 50° | 53,84 | 41,40 | 31 |
| 60° | 50° | 61,06 | 47,49 | 31 |
| 65° | 50° | 70,85 | 56,19 | 31 |

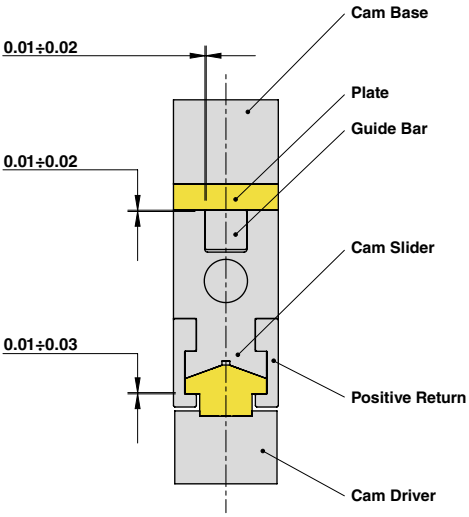


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

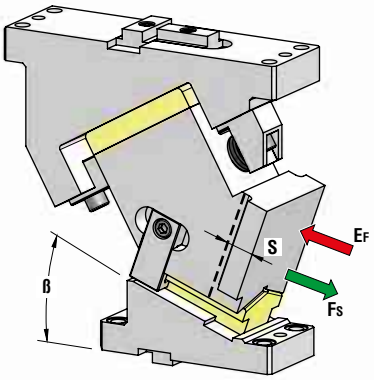





## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GG-30 | 1 |
| 2 | Cam Slider | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | GG-30 | 1 |
| 5 | Guide Bar | CK45 + Graphite | 1 |
| 6 | Spring Spacer | CK45 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Key | CK45 | 3 |
| 9 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10G | Gas Spring - Return Type G | - | 1 |
| 10S | Spring - Return Type S | - | 1 |
| 11 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 12 | Cam Base Fixing Screws M12x55 DIN 912 | - | 4 |
| 13 | Gas Spring Spacer | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD100.00 | 0° | 30,21 | 149 | 1,37 | 1,85 |
| CHD100.05 | 5° | 30,52 | 149 | 1,37 | 1,76 |
| CHD100.10 | 10° | 31,11 | 149 | 1,37 | 1,69 |
| CHD100.15 | 15° | 33,92 | 149 | 1,37 | 1,69 |
| CHD100.20 | 20° | 32,26 | 149 | 1,25 | 1,59 |
| CHD100.25 | 25° | 35 | 149 | 1,25 | 1,59 |
| CHD100.30 | 30° | 34,72 | 149 | 1,25 | 1,54 |
| CHD100.35 | 35° | 37,73 | 149 | 1,25 | 1,54 |
| CHD100.40 | 40° | 39,85 | 149 | 1,25 | 1,52 |
| CHD100.45 | 45° | 43,67 | 149 | 1,25 | 1,52 |
| CHD100.50 | 50° | 46,67 | 149 | 1,13 | 1,50 |
| CHD100.55 | 55° | 53,84 | 149 | 1,25 | 1,52 |
| CHD100.60 | 60° | 61,06 | 149 | 1,25 | 1,52 |
| CHD100.65 | 65° | 70,85 | 149 | 1,25 | 1,52 |

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |

*Return Type: **G** = *Gas Spring* / **S** = *Spring*

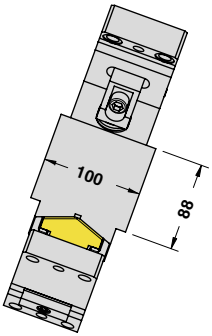
15 ORDER EXAMPLE

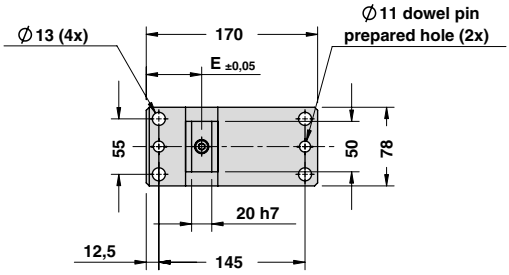
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHD100 | 05 | G | SL55 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHD100.00 | 0° | 277 | 110 | 135 | 305 | 65 |
| CHD100.05 | 5° | 278,32 | 115,67 | 125 | 295 | 65 |
| CHD100.10 | 10° | 274,54 | 117,32 | 110 | 280 | 65 |
| CHD100.15 | 15° | 277,58 | 119,95 | 105 | 275 | 55 |
| CHD100.20 | 20° | 273,34 | 123,52 | 95 | 265 | 55 |
| CHD100.25 | 25° | 268,75 | 128,03 | 80 | 250 | 55 |
| CHD100.30 | 30° | 261,73 | 133,42 | 65 | 235 | 60 |
| CHD100.35 | 35° | 258,20 | 139,66 | 55 | 225 | 60 |
| CHD100.40 | 40° | 245,09 | 146,70 | 35 | 205 | 50 |
| CHD100.45 | 45° | 245,34 | 154,49 | 30 | 200 | 50 |
| CHD100.50 | 50° | 225,87 | 162,97 | 5 | 175 | 50 |
| CHD100.55 | 55° | 229,64 | 172,07 | 0 | 170 | 60 |
| CHD100.60 | 60° | 208,58 | 181,73 | -20 | 150 | 50 |
| CHD100.65 | 65° | 203,67 | 191,87 | -30 | 140 | 50 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

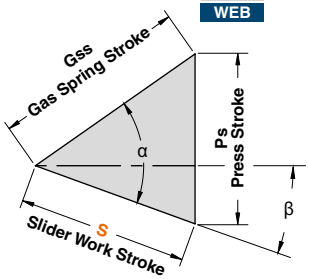
### X VIEW

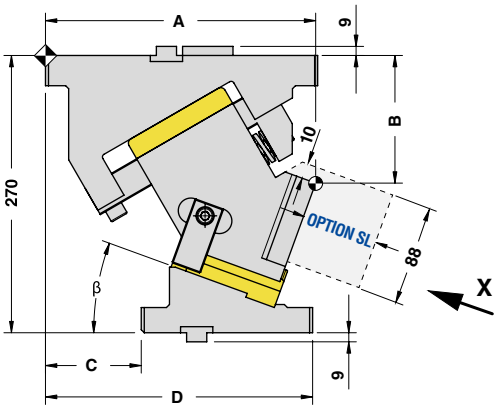


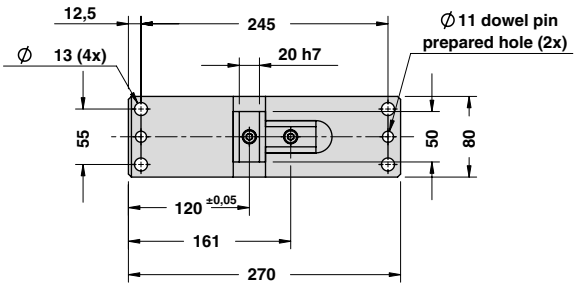

### CAM DIAGRAM

WEB

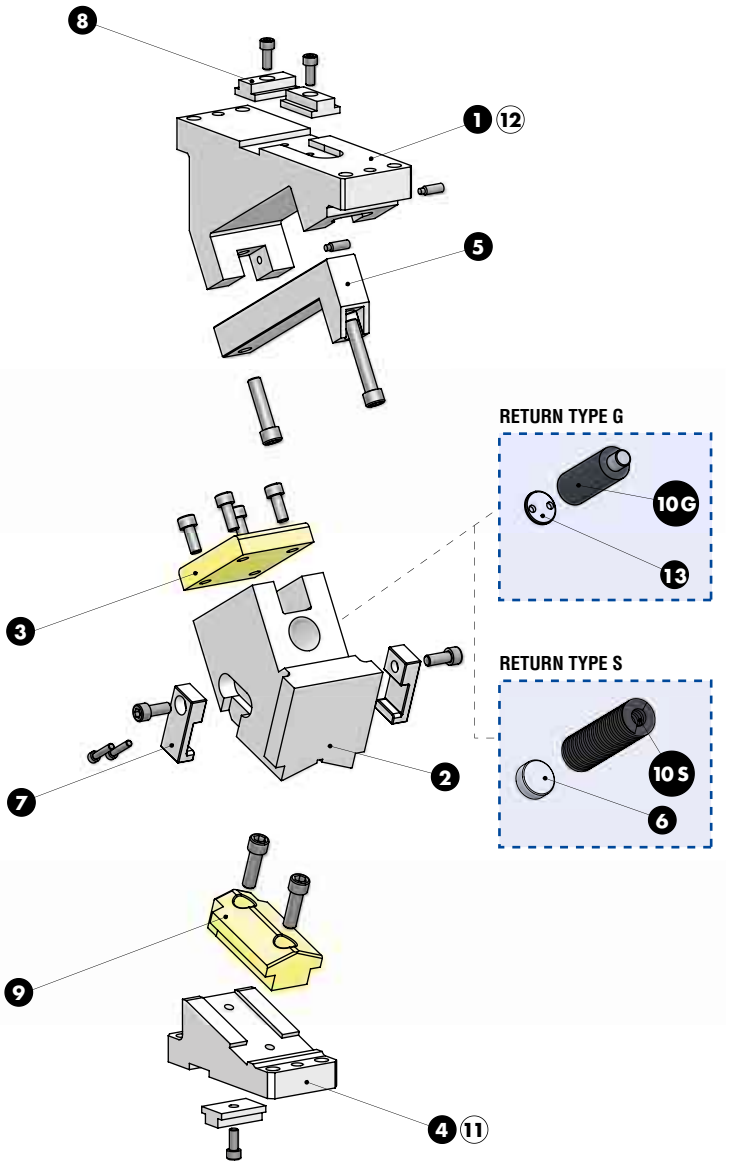



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 30,21 | 36,00 | 47 |
| 5° | 50° | 30,52 | 33,07 | 43 |
| 10° | 50° | 31,11 | 31,11 | 40 |
| 15° | 50° | 33,92 | 31,72 | 40 |
| 20° | 50° | 32,26 | 28,53 | 35 |
| 25° | 50° | 35,00 | 29,58 | 35 |
| 30° | 50° | 34,72 | 28,31 | 32 |
| 35° | 50° | 37,73 | 29,93 | 32 |
| 40° | 50° | 39,85 | 31,00 | 31 |
| 45° | 50° | 43,67 | 33,58 | 31 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 55° | 50° | 53,84 | 41,40 | 31 |
| 60° | 50° | 61,06 | 47,49 | 31 |
| 65° | 50° | 70,85 | 56,19 | 31 |

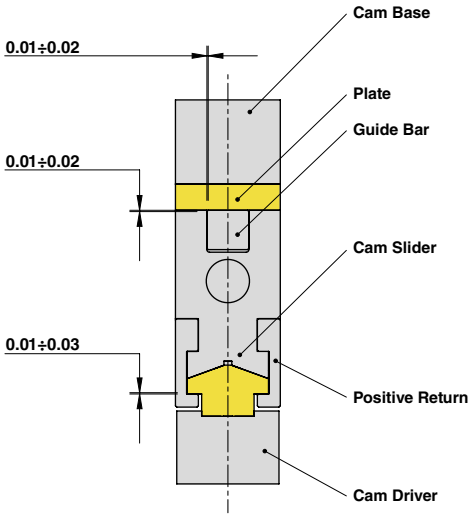


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

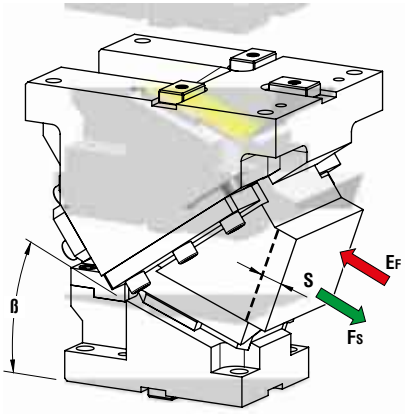





**PART LIST**

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GG-30 | 1 |
| 2 | Cam Slider | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | GG-30 | 1 |
| 5 | Guide Bar | CK45 + Graphite | 1 |
| 6 | Spring Spacer | CK45 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Key | CK45 | 3 |
| 9 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10G | Gas Spring - Return Type G | - | 1 |
| 10S | Spring - Return Type S | - | 1 |
| 11 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 12 | Cam Base Fixing Screws M12x55 DIN 912 | - | 4 |
| 13 | Gas Spring Spacer | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




3D STEP WEB | 3D CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| **CHD150.00** | 0° | 28,68 | 391 | 2,29 | 7,15 |
| **CHD150.05** | 5° | 32,26 | 391 | 2,29 | 7,15 |
| **CHD150.10** | 10° | 35,90 | 391 | 2,29 | 7,15 |
| **CHD150.15** | 15° | 39,65 | 391 | 2,29 | 7,15 |
| **CHD150.20** | 20° | 43,59 | 391 | 2,29 | 7,15 |
| **CHD150.25** | 25° | 47,78 | 391 | 2,29 | 7,15 |
| **CHD150.30** | 30° | 52,33 | 391 | 2,29 | 7,15 |
| **CHD150.35** | 35° | 57,36 | 391 | 2,29 | 7,15 |
| **CHD150.40** | 40° | 63,05 | 391 | 2,29 | 7,15 |
| **CHD150.45** | 45° | 69,64 | 391 | 2,29 | 7,15 |
| **CHD150.50** | 50° | 77,49 | 391 | 2,29 | 7,15 |
| **CHD150.55** | 55° | 87,17 | 391 | 2,29 | 7,15 |
| **CHD150.60** | 60° | 99,62 | 391 | 2,29 | 7,15 |
| **CHD150.65** | 65° | 116,51 | 391 | 2,29 | 7,15 |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

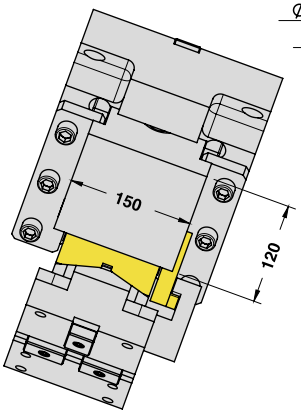
20 ORDER EXAMPLE

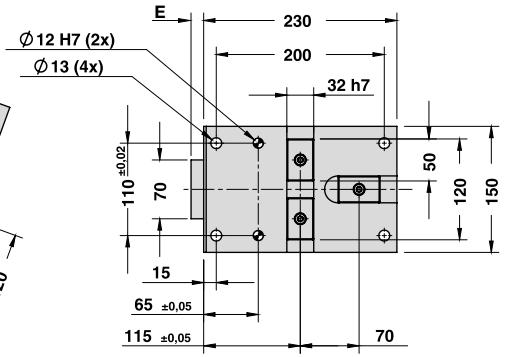
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHD150 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| **CHD150.00** | 0° | 325 | 130 | 80 | 310 | 25 |
| **CHD150.05** | 5° | 319,70 | 133,26 | 60 | 290 | 25 |
| **CHD150.10** | 10° | 319,06 | 137,79 | 45 | 275 | 25 |
| **CHD150.15** | 15° | 322,98 | 143,56 | 35 | 265 | 20 |
| **CHD150.20** | 20° | 326,33 | 150,51 | 25 | 255 | 15 |
| **CHD150.25** | 25° | 329,03 | 158,61 | 15 | 245 | 10 |
| **CHD150.30** | 30° | 325,98 | 167,78 | 0 | 230 | 0 |
| **CHD150.35** | 35° | 322,08 | 192,95 | -15 | 215 | 0 |
| **CHD150.40** | 40° | 312,26 | 204,06 | -35 | 195 | 0 |
| **CHD150.45** | 45° | 306,42 | 216,01 | -50 | 180 | 0 |
| **CHD150.50** | 50° | 294,51 | 228,71 | -70 | 160 | 0 |
| **CHD150.55** | 55° | 281,46 | 242,07 | -90 | 140 | 0 |
| **CHD150.60** | 60° | 272,22 | 255,98 | -105 | 125 | 0 |
| **CHD150.65** | 65° | 261,75 | 270,34 | -120 | 110 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

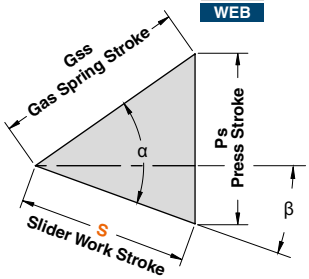
### X VIEW

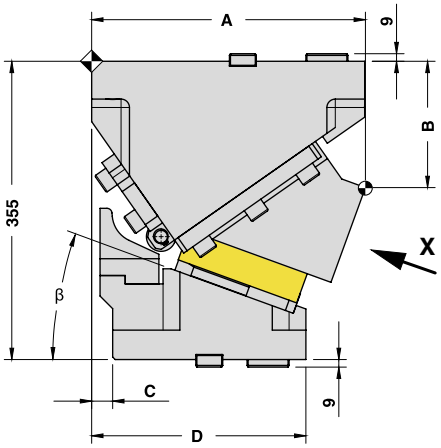


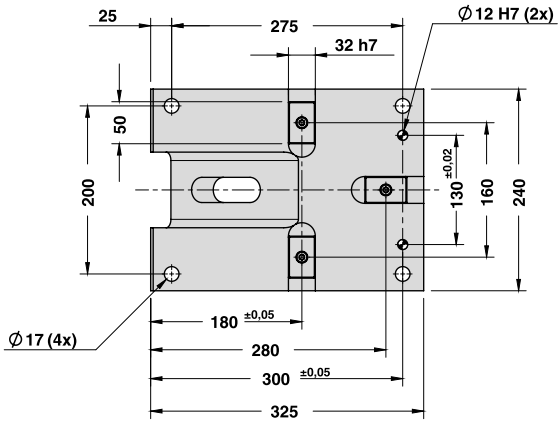

### CAM DIAGRAM

WEB

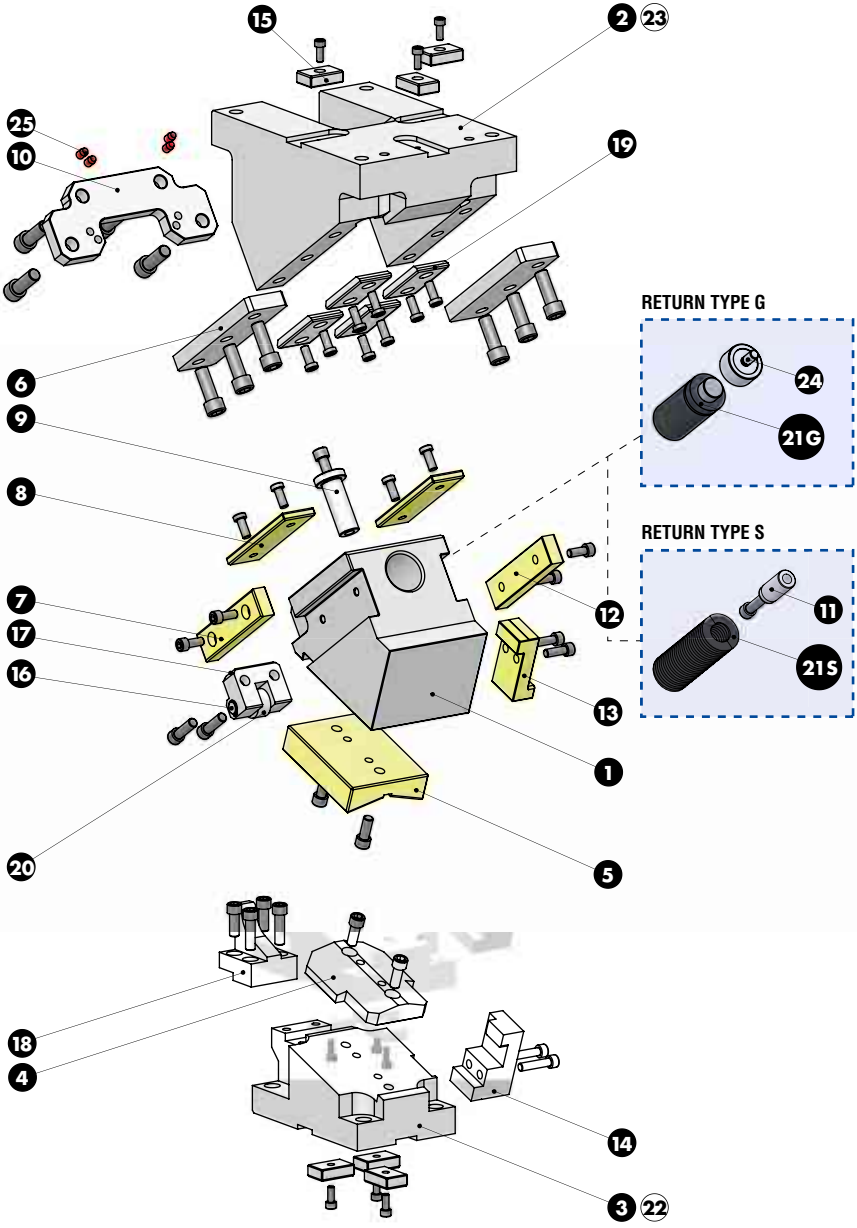



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 55° | 28,68 | 40,96 | 50 |
| 5° | 55° | 32,26 | 41,11 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 55° | 52,33 | 47,29 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 55° | 63,05 | 53,47 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 55° | 77,49 | 63,72 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 55° | 99,62 | 81,92 | 50 |
| 65° | 55° | 116,51 | 96,91 | 50 |

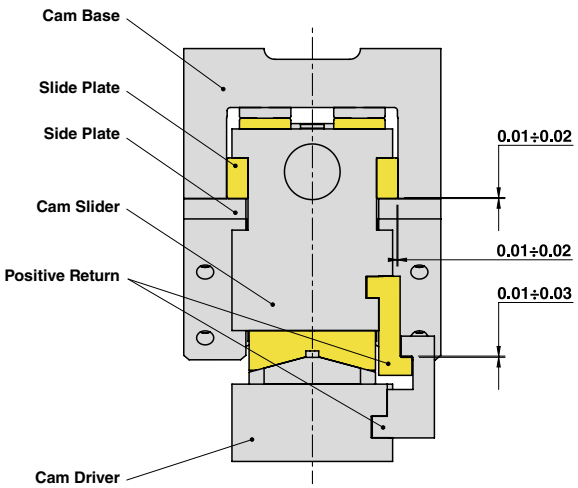


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

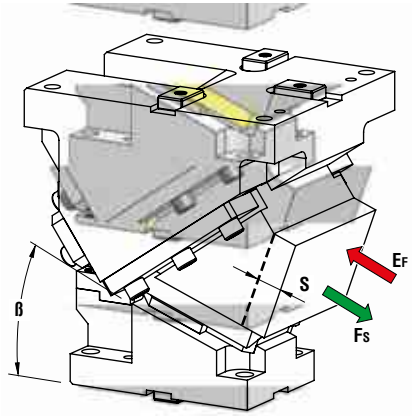
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Base | GG-30 | 1 |
| 3 | Cam Driver | GG-30 | 1 |
| 4 | Male "V" Driver | CK45 | 1 |
| 5 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate | CK45 | 2 |
| 7 | Slide Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Safety Pin | CK45 | 1 |
| 10 | Stopper Plate | St 52 | 1 |
| 11 | Spring Guide Pin | CK45 | 1 |
| 12 | Slide Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Positive Return | CuZn25Al5 - HB > 190 | 1 |
| 14 | Positive Return | 42CrMo4 Nitrided | 1 |
| 15 | Key | CK45 | 6 |
| 16 | Shaft | CK45 | 1 |
| 17 | Roller Bracket | CK45 | 1 |
| 18 | Accelerator | CK45 | 1 |
| 19 | Wear Plate | CK45 | 4 |
| 20 | Roller | NATR15PP | 1 |
| 21G | Gas Spring - Return Type G | - | 1 |
| 21S | Spring - Return Type S | - | 1 |
| 22 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |
| 24 | Gas Spring Spacer | CK45 | 1 |
| 25 | Elastomer Cap | Elastomer 92SH | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD180.00 | 0° | 28,68 | 396 | 2,29 | 7,15 |
| CHD180.05 | 5° | 32,26 | 396 | 2,29 | 7,15 |
| CHD180.10 | 10° | 35,90 | 396 | 2,29 | 7,15 |
| CHD180.15 | 15° | 39,65 | 396 | 2,29 | 7,15 |
| CHD180.20 | 20° | 43,59 | 396 | 2,29 | 7,15 |
| CHD180.25 | 25° | 47,78 | 396 | 2,29 | 7,15 |
| CHD180.30 | 30° | 52,33 | 396 | 2,29 | 7,15 |
| CHD180.35 | 35° | 57,36 | 396 | 2,29 | 7,15 |
| CHD180.40 | 40° | 63,05 | 396 | 2,29 | 7,15 |
| CHD180.45 | 45° | 69,64 | 396 | 2,29 | 7,15 |
| CHD180.50 | 50° | 77,49 | 396 | 2,29 | 7,15 |
| CHD180.55 | 55° | 87,17 | 396 | 2,29 | 7,15 |
| CHD180.60 | 60° | 99,62 | 396 | 2,29 | 7,15 |
| CHD180.65 | 65° | 116,51 | 396 | 2,29 | 7,15 |

***Return Type:** **G** = *Gas Spring* / **S** = *Spring*

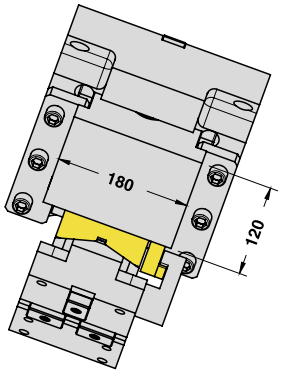
20 ORDER EXAMPLE

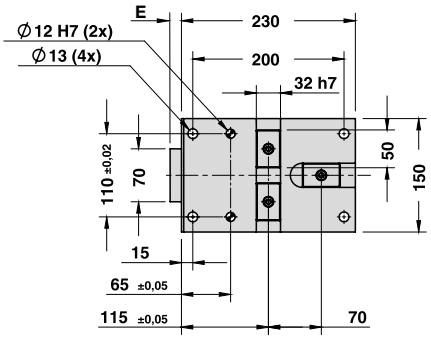
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHD180 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHD180.00 | 0° | 325 | 130 | 80 | 310 | 25 |
| CHD180.05 | 5° | 319,70 | 133,26 | 60 | 290 | 25 |
| CHD180.10 | 10° | 319,06 | 137,79 | 45 | 275 | 25 |
| CHD180.15 | 15° | 322,98 | 143,56 | 35 | 265 | 20 |
| CHD180.20 | 20° | 326,33 | 150,51 | 25 | 255 | 15 |
| CHD180.25 | 25° | 329,03 | 158,61 | 15 | 245 | 10 |
| CHD180.30 | 30° | 325,98 | 167,78 | 0 | 230 | 0 |
| CHD180.35 | 35° | 322,08 | 192,95 | -15 | 215 | 0 |
| CHD180.40 | 40° | 312,26 | 204,06 | -35 | 195 | 0 |
| CHD180.45 | 45° | 306,42 | 216,01 | -50 | 180 | 0 |
| CHD180.50 | 50° | 294,51 | 228,71 | -70 | 160 | 0 |
| CHD180.55 | 55° | 281,46 | 242,07 | -90 | 140 | 0 |
| CHD180.60 | 60° | 272,22 | 255,98 | -105 | 125 | 0 |
| CHD180.65 | 65° | 261,75 | 270,34 | -120 | 110 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

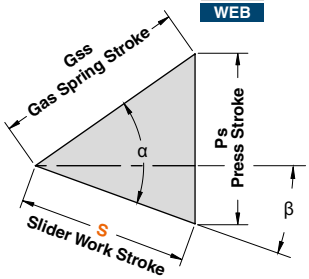
### X VIEW

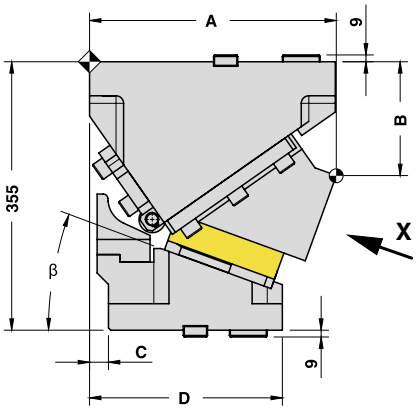


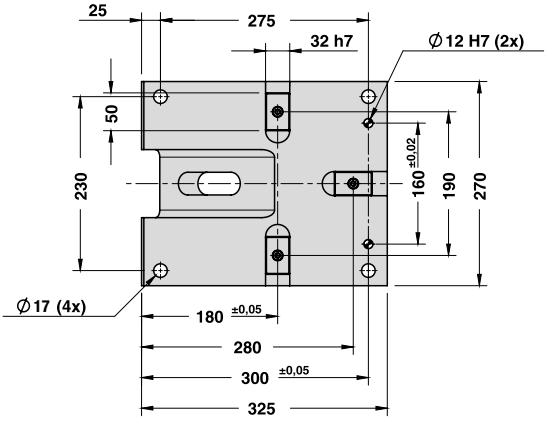

### CAM DIAGRAM

WEB

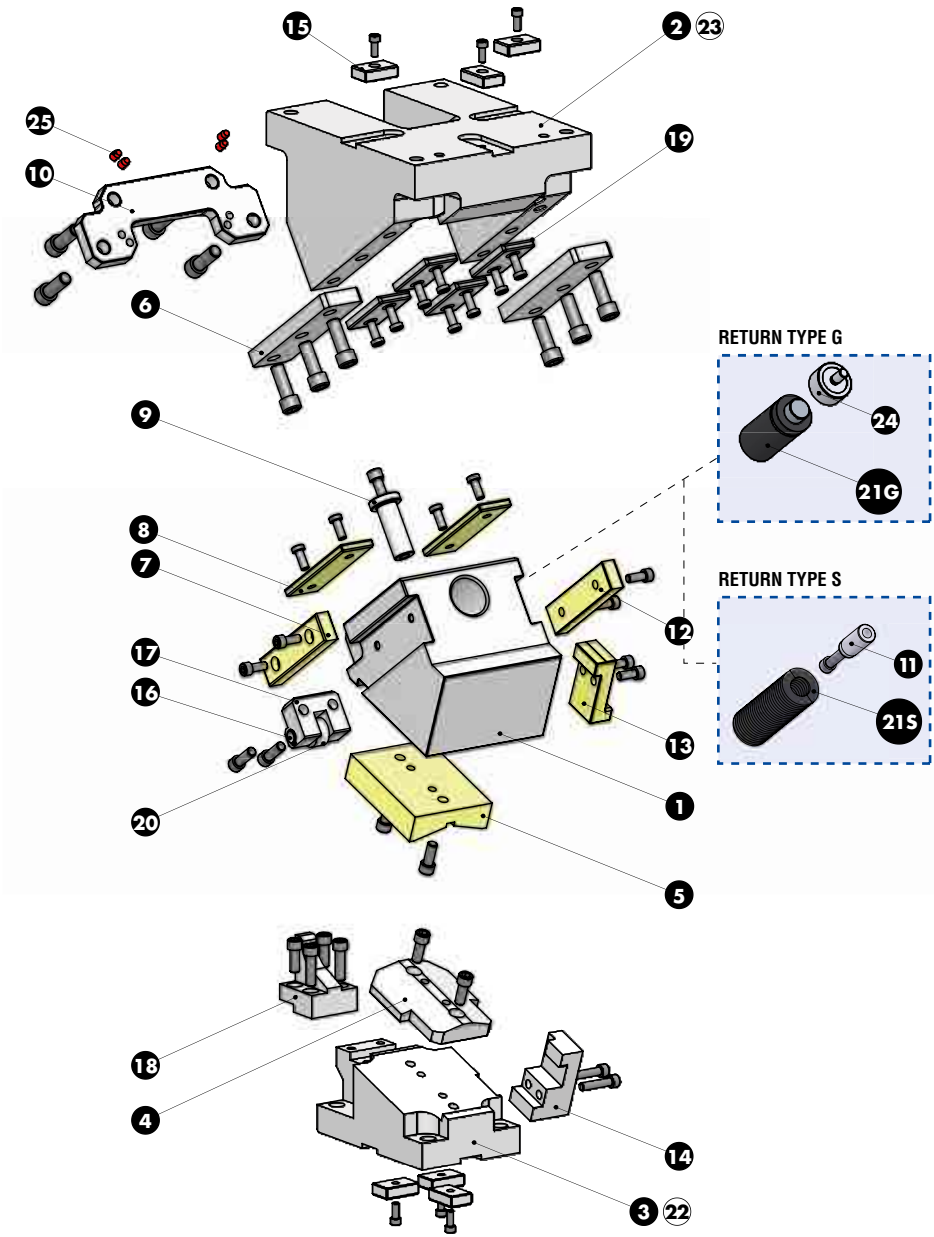



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 55° | 28,68 | 40,96 | 50 |
| 5° | 55° | 32,26 | 41,11 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 55° | 52,33 | 47,29 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 55° | 63,05 | 53,47 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 55° | 77,49 | 63,72 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 55° | 99,62 | 81,92 | 50 |
| 65° | 55° | 116,51 | 96,91 | 50 |

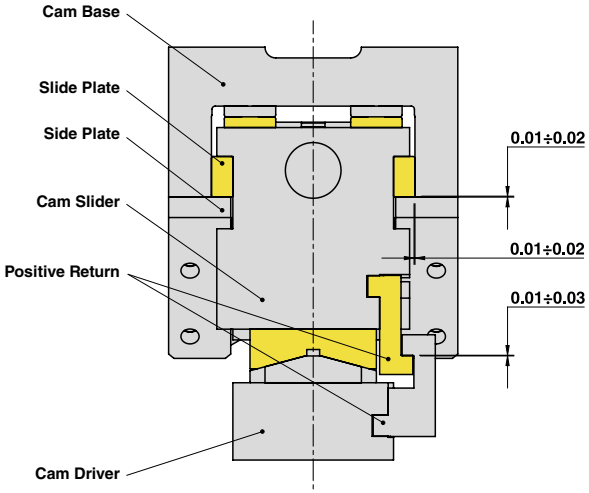


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

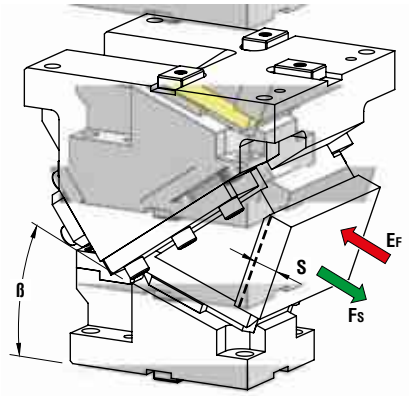
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Base | GG-30 | 1 |
| 3 | Cam Driver | GG-30 | 1 |
| 4 | Male "V" Driver | CK45 | 1 |
| 5 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate | CK45 | 2 |
| 7 | Slide Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Safety Pin | CK45 | 1 |
| 10 | Stopper Plate | St 52 | 1 |
| 11 | Spring Guide Pin | CK45 | 1 |
| 12 | Slide Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Positive Return | CuZn25Al5 - HB > 190 | 1 |
| 14 | Positive Return | 42CrMo4 Nitrided | 1 |
| 15 | Key | CK45 | 6 |
| 16 | Shaft | CK45 | 1 |
| 17 | Roller Bracket | CK45 | 1 |
| 18 | Accelerator | CK45 | 1 |
| 19 | Wear Plate | CK45 | 4 |
| 20 | Roller | NATR15PP | 1 |
| 21G | Gas Spring - Return Type G | - | 1 |
| 21S | Spring - Return Type S | - | 1 |
| 22 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |
| 24 | Gas Spring Spacer | CK45 | 1 |
| 25 | Elastomer Cap | Elastomer 92SH | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




3D STEP WEB | 3D CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD200.00 | 0° | 28,68 | 396 | 2,29 | 7,15 |
| CHD200.05 | 5° | 32,26 | 396 | 2,29 | 7,15 |
| CHD200.10 | 10° | 35,90 | 396 | 2,29 | 7,15 |
| CHD200.15 | 15° | 39,65 | 396 | 2,29 | 7,15 |
| CHD200.20 | 20° | 43,59 | 396 | 2,29 | 7,15 |
| CHD200.25 | 25° | 47,78 | 396 | 2,29 | 7,15 |
| CHD200.30 | 30° | 52,33 | 396 | 2,29 | 7,15 |
| CHD200.35 | 35° | 57,36 | 396 | 2,29 | 7,15 |
| CHD200.40 | 40° | 63,05 | 396 | 2,29 | 7,15 |
| CHD200.45 | 45° | 69,64 | 396 | 2,29 | 7,15 |
| CHD200.50 | 50° | 77,49 | 396 | 2,29 | 7,15 |
| CHD200.55 | 55° | 87,17 | 396 | 2,29 | 7,15 |
| CHD200.60 | 60° | 99,62 | 396 | 2,29 | 7,15 |
| CHD200.65 | 65° | 116,51 | 396 | 2,29 | 7,15 |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

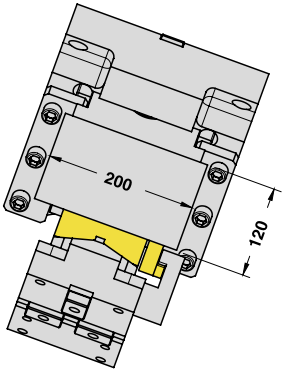
20 ORDER EXAMPLE

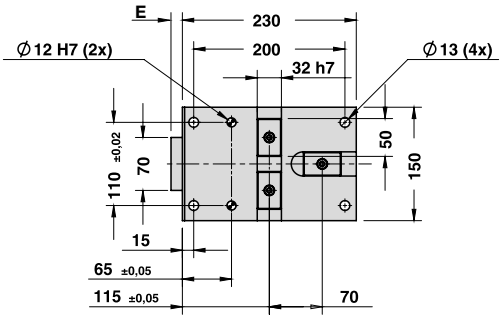
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHD200 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHD200.00 | 0° | 325 | 130 | 80 | 310 | 25 |
| CHD200.05 | 5° | 319,70 | 133,26 | 60 | 290 | 25 |
| CHD200.10 | 10° | 319,06 | 137,79 | 45 | 275 | 25 |
| CHD200.15 | 15° | 322,98 | 143,56 | 35 | 265 | 20 |
| CHD200.20 | 20° | 326,33 | 150,51 | 25 | 255 | 15 |
| CHD200.25 | 25° | 329,03 | 158,61 | 15 | 245 | 10 |
| CHD200.30 | 30° | 325,98 | 167,78 | 0 | 230 | 0 |
| CHD200.35 | 35° | 322,08 | 192,95 | -15 | 215 | 0 |
| CHD200.40 | 40° | 312,26 | 204,06 | -35 | 195 | 0 |
| CHD200.45 | 45° | 306,42 | 216,01 | -50 | 180 | 0 |
| CHD200.50 | 50° | 294,51 | 228,71 | -70 | 160 | 0 |
| CHD200.55 | 55° | 281,46 | 242,07 | -90 | 140 | 0 |
| CHD200.60 | 60° | 272,22 | 255,98 | -105 | 125 | 0 |
| CHD200.65 | 65° | 261,75 | 270,34 | -120 | 110 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

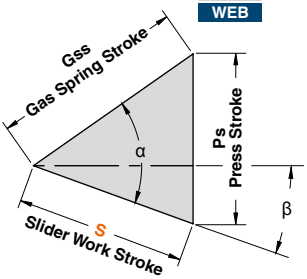
### X VIEW

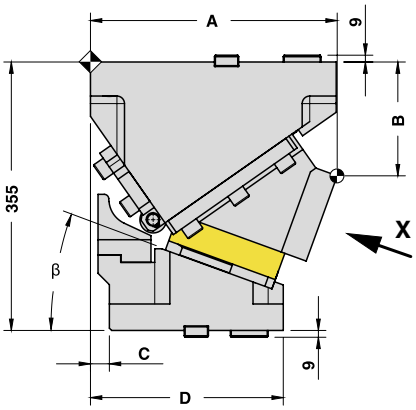


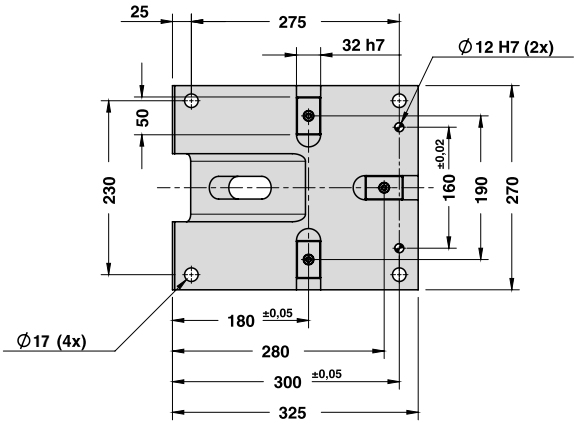

### CAM DIAGRAM

WEB

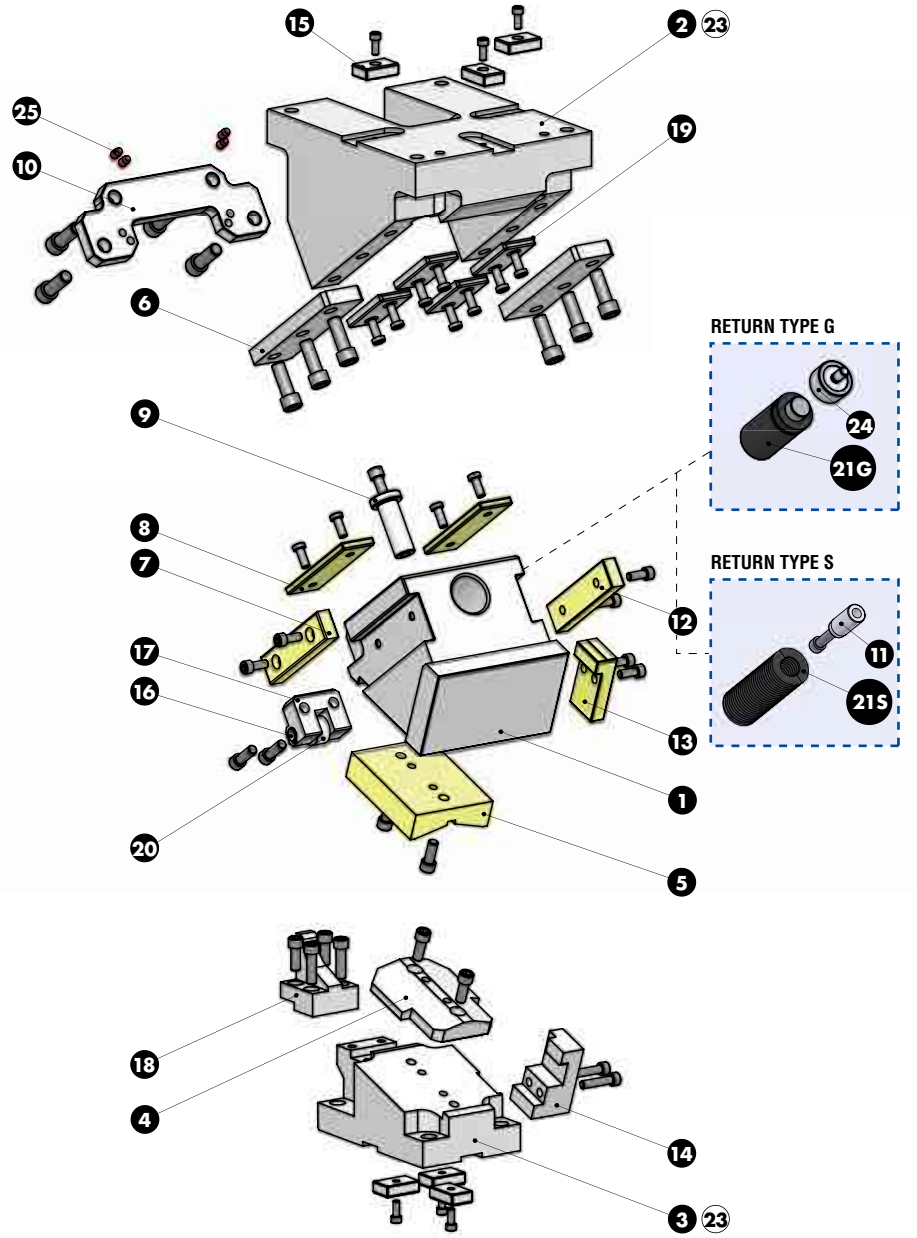



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 55° | 28,68 | 40,96 | 50 |
| 5° | 55° | 32,26 | 41,11 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 55° | 52,33 | 47,29 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 55° | 63,05 | 53,47 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 55° | 77,49 | 63,72 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 55° | 99,62 | 81,92 | 50 |
| 65° | 55° | 116,51 | 96,91 | 50 |

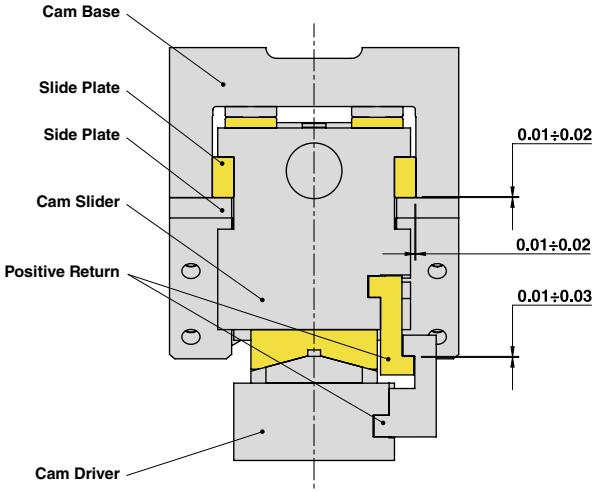


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

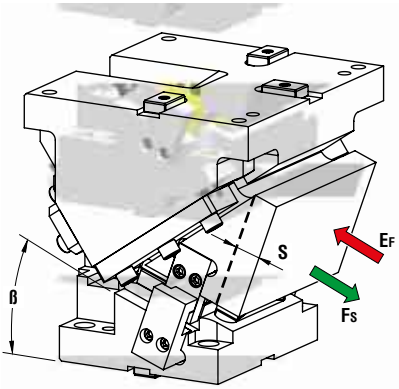
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Base | GG-30 | 1 |
| 3 | Cam Driver | GG-30 | 1 |
| 4 | Male "V" Driver | CK45 | 1 |
| 5 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate | CK45 | 2 |
| 7 | Slide Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Safety Pin | CK45 | 1 |
| 10 | Stopper Plate | St 52 | 1 |
| 11 | Spring Guide Pin | CK45 | 1 |
| 12 | Slide Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Positive Return | CuZn25Al5 - HB > 190 | 1 |
| 14 | Positive Return | 42CrMo4 Nitrided | 1 |
| 15 | Key | CK45 | 6 |
| 16 | Shaft | CK45 | 1 |
| 17 | Roller Bracket | CK45 | 1 |
| 18 | Accelerator | CK45 | 1 |
| 19 | Wear Plate | CK45 | 4 |
| 20 | Roller | NATR15PP | 1 |
| 21G | Gas Spring - Return Type G | - | 1 |
| 21S | Spring - Return Type S | - | 1 |
| 22 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |
| 24 | Gas Spring Spacer | CK45 | 1 |
| 25 | Elastomer Cap | Elastomer 92SH | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD250.00 | 0° | 28,68 | 645 | 4,58 | 14,30 |
| CHD250.05 | 5° | 32,26 | 645 | 4,58 | 14,30 |
| CHD250.10 | 10° | 35,90 | 645 | 4,58 | 14,30 |
| CHD250.15 | 15° | 39,65 | 645 | 4,58 | 14,30 |
| CHD250.20 | 20° | 43,59 | 645 | 4,58 | 14,30 |
| CHD250.25 | 25° | 47,78 | 645 | 4,58 | 14,30 |
| CHD250.30 | 30° | 52,33 | 645 | 4,58 | 14,30 |
| CHD250.35 | 35° | 57,36 | 645 | 4,58 | 14,30 |
| CHD250.40 | 40° | 63,05 | 645 | 4,58 | 14,30 |
| CHD250.45 | 45° | 69,64 | 645 | 4,58 | 14,30 |
| CHD250.50 | 50° | 77,49 | 645 | 4,58 | 14,30 |
| CHD250.55 | 55° | 87,17 | 645 | 4,58 | 14,30 |
| CHD250.60 | 60° | 99,62 | 645 | 4,58 | 14,30 |
| CHD250.65 | 65° | 116,51 | 645 | 4,58 | 14,30 |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

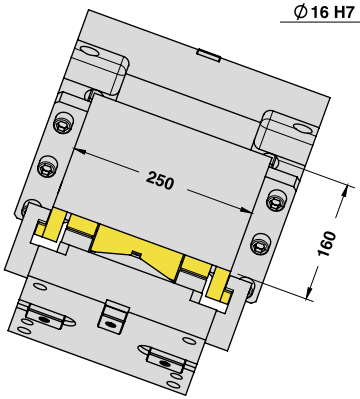
20 ORDER EXAMPLE

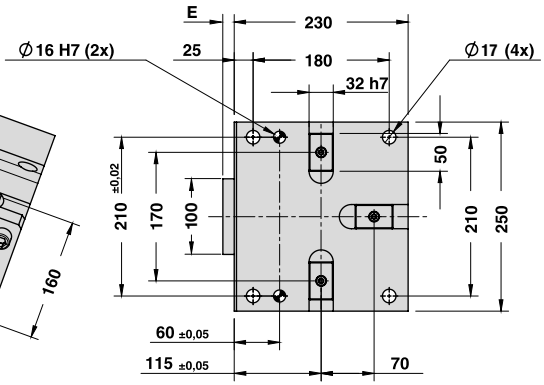
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHD250 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHD250.00 | 0° | 325 | 90 | 80 | 310 | 25 |
| CHD250.05 | 5° | 323,19 | 93,41 | 60 | 290 | 25 |
| CHD250.10 | 10° | 326,01 | 98,40 | 45 | 275 | 25 |
| CHD250.15 | 15° | 333,33 | 104,92 | 35 | 265 | 20 |
| CHD250.20 | 20° | 340,02 | 112,93 | 25 | 255 | 15 |
| CHD250.25 | 25° | 345,94 | 122,35 | 15 | 245 | 10 |
| CHD250.30 | 30° | 345,98 | 133,14 | 0 | 230 | 0 |
| CHD250.35 | 35° | 345,03 | 160,19 | -15 | 215 | 0 |
| CHD250.40 | 40° | 337,97 | 173,42 | -35 | 195 | 0 |
| CHD250.45 | 45° | 334,71 | 187,72 | -50 | 180 | 0 |
| CHD250.50 | 50° | 325,15 | 202,99 | -70 | 160 | 0 |
| CHD250.55 | 55° | 314,23 | 219,12 | -90 | 140 | 0 |
| CHD250.60 | 60° | 306,86 | 235,98 | -105 | 125 | 0 |
| CHD250.65 | 65° | 298 | 253,44 | -120 | 110 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

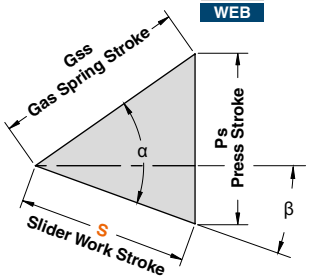
### X VIEW

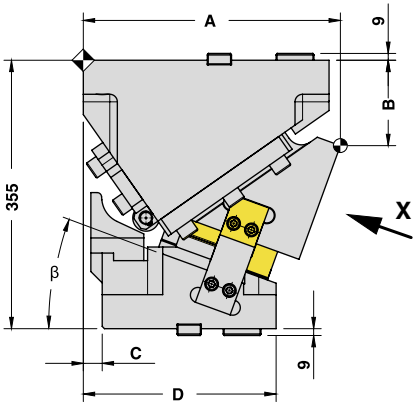


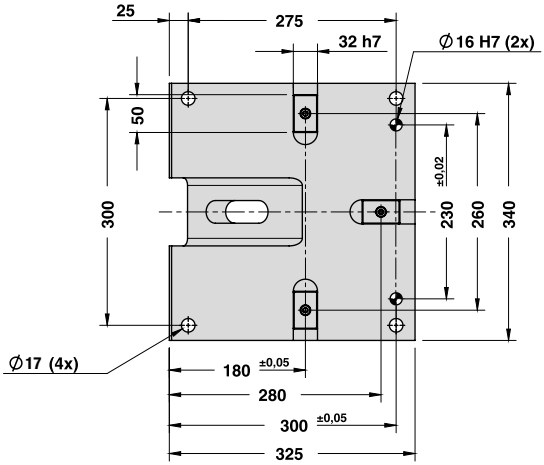

### CAM DIAGRAM

WEB

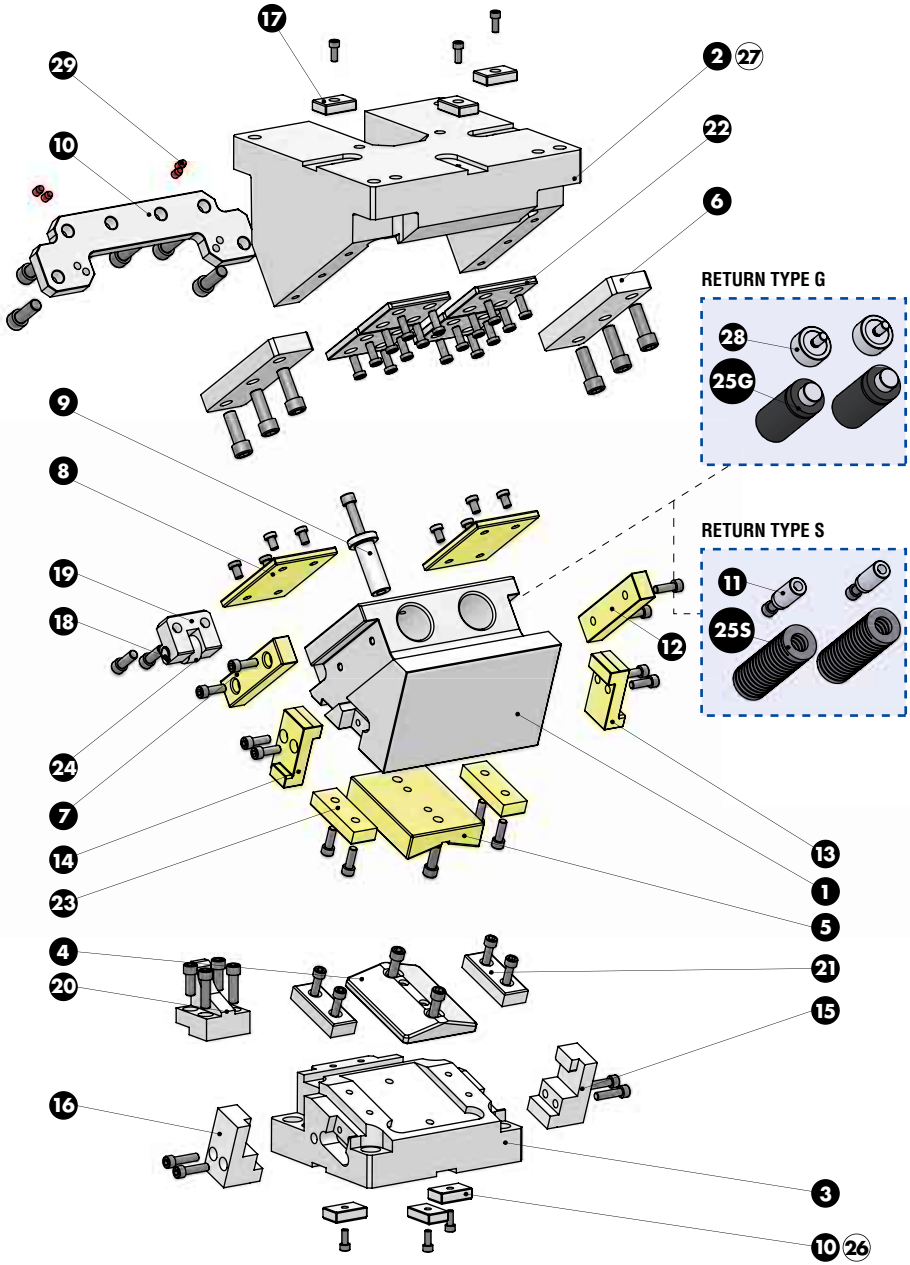



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 55° | 28,68 | 40,96 | 50 |
| 5° | 55° | 32,26 | 41,11 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 55° | 52,33 | 47,29 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 55° | 63,05 | 53,47 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 55° | 77,49 | 63,72 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 55° | 99,62 | 81,92 | 50 |
| 65° | 55° | 116,51 | 96,91 | 50 |

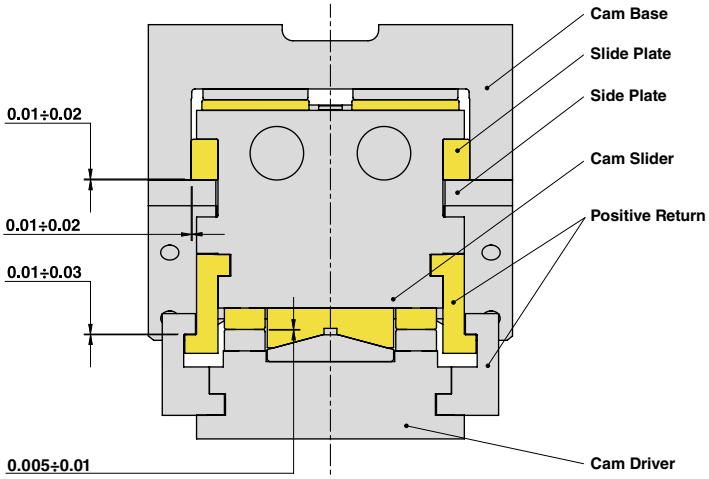


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

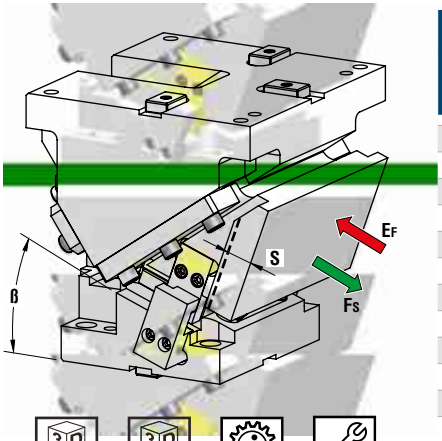
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Base | GG-30 | 1 |
| 3 | Cam Driver | GG-30 | 1 |
| 4 | Male "V" Driver | CK45 | 1 |
| 5 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate | CK45 | 2 |
| 7 | Slide Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Safety Pin | CK45 | 1 |
| 10 | Stopper Plate | St 52 | 1 |
| 11 | Spring Guide Pin | CK45 | 2 |
| 12 | Slide Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Positive Return R | CuZn25Al5 - HB > 190 | 1 |
| 14 | Positive Return L | CuZn25Al5 - HB > 190 | 1 |
| 15 | Positive Return R | 42CrMo4 Nitrided | 1 |
| 16 | Positive Return L | 42CrMo4 Nitrided | 1 |
| 17 | Key | CK45 | 6 |
| 18 | Shaft | CK45 | 1 |
| 19 | Roller Bracket | CK45 | 1 |
| 20 | Accelerator | CK45 | 1 |
| 21 | Wear Plate | CK45 | 2 |
| 22 | Wear Plate | CK45 | 4 |
| 23 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 24 | Roller | NATR15PP | 1 |
| 25G | Gas Spring - Return Type G | - | 2 |
| 25S | Spring - Return Type S | - | 2 |
| 26 | Cam Driver Fixing Screws M16x70 DIN 912 | - | 4 |
| 27 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |
| 28 | Gas Spring Spacer | CK45 | 2 |
| 29 | Elastomer Cap | Elastomer 92SH | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | Ef | |
| | β | S | Fs | Spring | Gas Spring |
| CHD300.00 | 0° | 28,68 | 645 | 4,58 | 14,30 |
| CHD300.05 | 5° | 32,26 | 645 | 4,58 | 14,30 |
| CHD300.10 | 10° | 35,90 | 645 | 4,58 | 14,30 |
| CHD300.15 | 15° | 39,65 | 645 | 4,58 | 14,30 |
| CHD300.20 | 20° | 43,59 | 645 | 4,58 | 14,30 |
| CHD300.25 | 25° | 47,78 | 645 | 4,58 | 14,30 |
| CHD300.30 | 30° | 52,33 | 645 | 4,58 | 14,30 |
| CHD300.35 | 35° | 57,36 | 645 | 4,58 | 14,30 |
| CHD300.40 | 40° | 63,05 | 645 | 4,58 | 14,30 |
| CHD300.45 | 45° | 69,64 | 645 | 4,58 | 14,30 |
| CHD300.50 | 50° | 77,49 | 645 | 4,58 | 14,30 |
| CHD300.55 | 55° | 87,17 | 645 | 4,58 | 14,30 |
| CHD300.60 | 60° | 99,62 | 645 | 4,58 | 14,30 |
| CHD300.65 | 65° | 116,51 | 645 | 4,58 | 14,30 |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

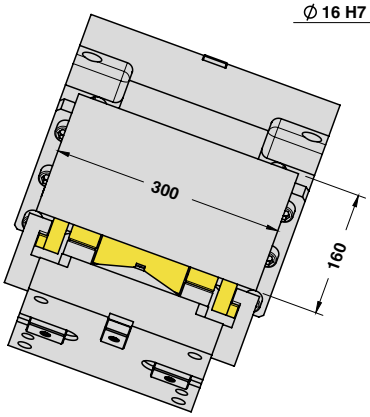
20 ORDER EXAMPLE

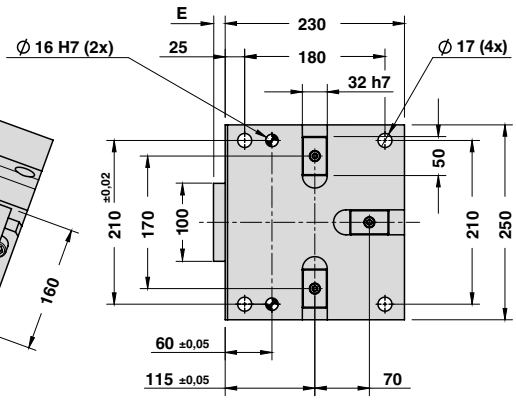
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHD300 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHD300.00 | 0° | 325 | 90 | 80 | 310 | 25 |
| CHD300.05 | 5° | 323,19 | 93,41 | 60 | 290 | 25 |
| CHD300.10 | 10° | 326,01 | 98,40 | 45 | 275 | 25 |
| CHD300.15 | 15° | 333,33 | 104,92 | 35 | 265 | 20 |
| CHD300.20 | 20° | 340,02 | 112,93 | 25 | 255 | 15 |
| CHD300.25 | 25° | 345,94 | 122,35 | 15 | 245 | 10 |
| CHD300.30 | 30° | 345,98 | 133,14 | 0 | 230 | 0 |
| CHD300.35 | 35° | 345,03 | 160,19 | -15 | 215 | 0 |
| CHD300.40 | 40° | 337,97 | 173,42 | -35 | 195 | 0 |
| CHD300.45 | 45° | 334,71 | 187,72 | -50 | 180 | 0 |
| CHD300.50 | 50° | 325,15 | 202,99 | -70 | 160 | 0 |
| CHD300.55 | 55° | 314,23 | 219,12 | -90 | 140 | 0 |
| CHD300.60 | 60° | 306,86 | 235,98 | -105 | 125 | 0 |
| CHD300.65 | 65° | 298 | 253,44 | -120 | 110 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

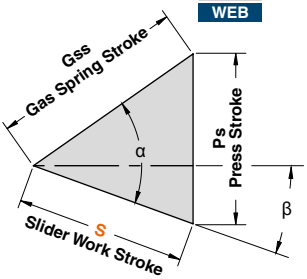
### X VIEW

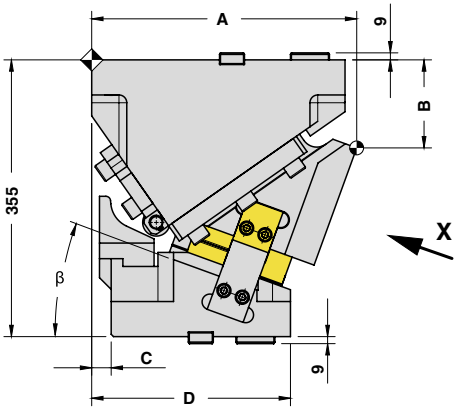


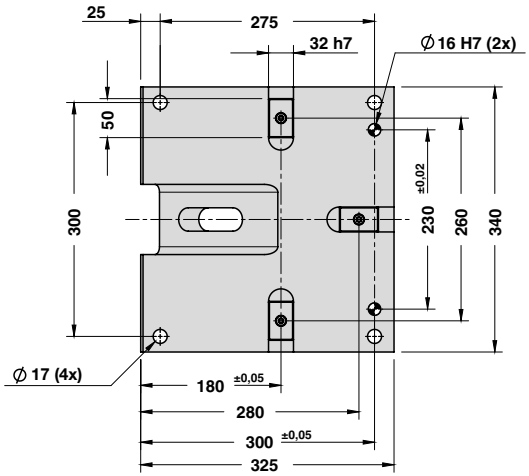

### CAM DIAGRAM

WEB

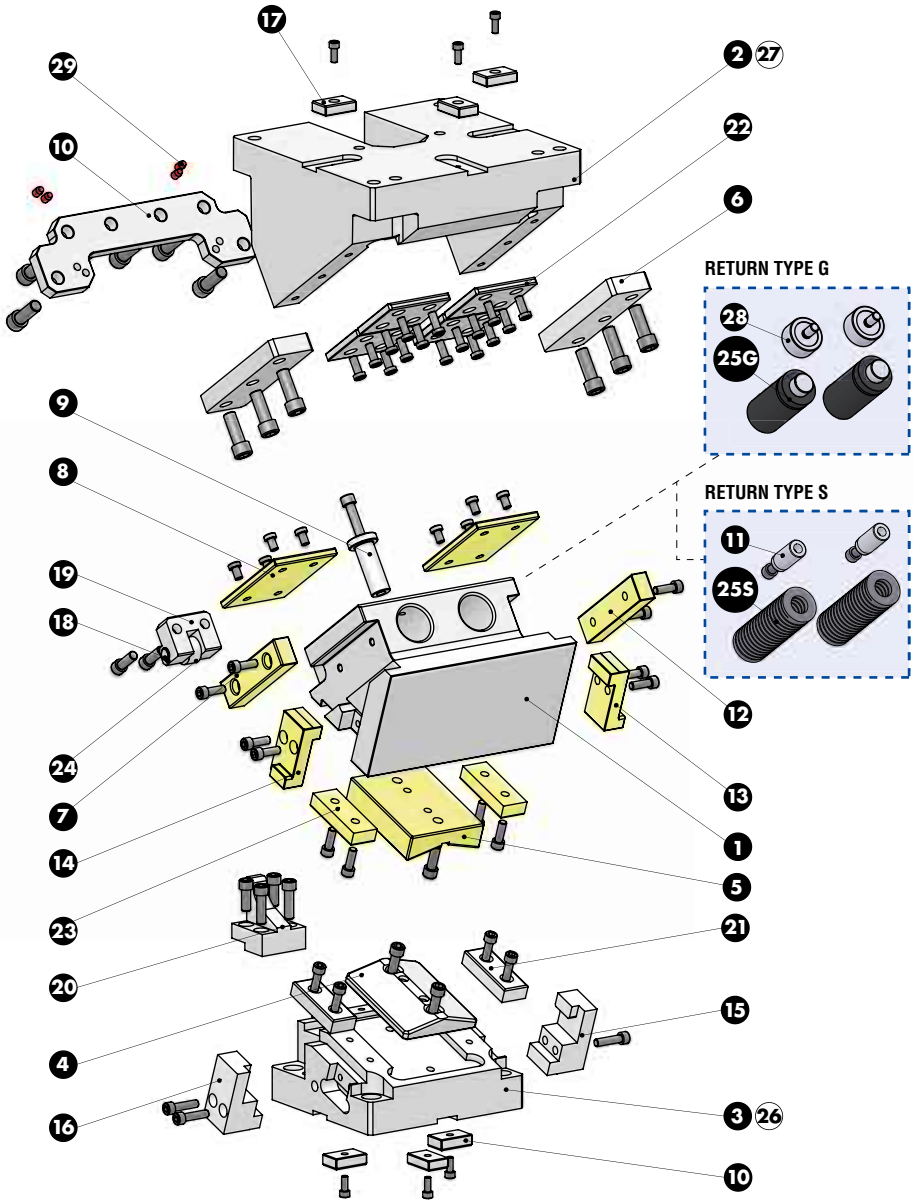



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 55° | 28,68 | 40,96 | 50 |
| 5° | 55° | 32,26 | 41,11 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 55° | 52,33 | 47,29 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 55° | 63,05 | 53,47 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 55° | 77,49 | 63,72 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 55° | 99,62 | 81,92 | 50 |
| 65° | 55° | 116,51 | 96,91 | 50 |

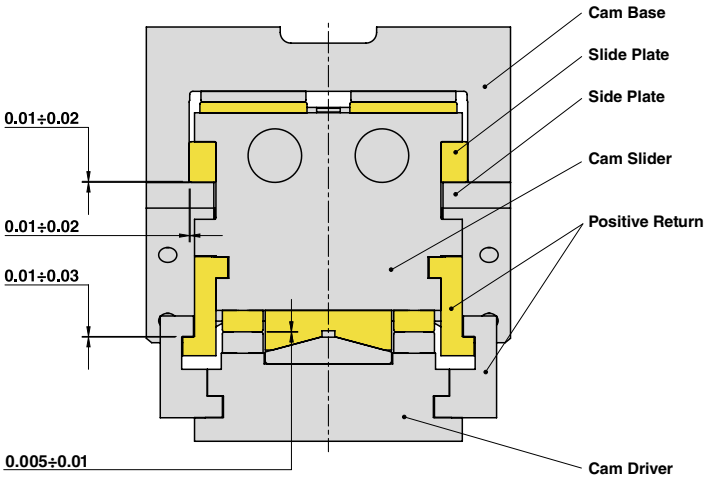


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Base | GG-30 | 1 |
| 3 | Cam Driver | GG-30 | 1 |
| 4 | Male "V" Driver | CK45 | 1 |
| 5 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate | CK45 | 2 |
| 7 | Slide Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Safety Pin | CK45 | 1 |
| 10 | Stopper Plate | St 52 | 1 |
| 11 | Spring Guide Pin | CK45 | 2 |
| 12 | Slide Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Positive Return R | CuZn25Al5 - HB > 190 | 1 |
| 14 | Positive Return L | CuZn25Al5 - HB > 190 | 1 |
| 15 | Positive Return R | 42CrMo4 Nitrided | 1 |
| 16 | Positive Return L | 42CrMo4 Nitrided | 1 |
| 17 | Key | CK45 | 6 |
| 18 | Shaft | CK45 | 1 |
| 19 | Roller Bracket | CK45 | 1 |
| 20 | Accelerator | CK45 | 1 |
| 21 | Wear Plate | CK45 | 2 |
| 22 | Wear Plate | CK45 | 4 |
| 23 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 24 | Roller | NATR15PP | 1 |
| 25G | Gas Spring - Return Type G | - | 2 |
| 25S | Spring - Return Type S | - | 2 |
| 26 | Cam Driver Fixing Screws M16x70 DIN 912 | - | 4 |
| 27 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |
| 28 | Gas Spring Spacer | CK45 | 2 |
| 29 | Elastomer Cap | Elastomer 92SH | 4 |



# Cam Units CHV
# Schieber CHV
# Unità a Camme CHV

STAR CAM SERIES
HIGH PERFORMANCE

OMCR®
STANDARD DIE COMPONENTS

INDEX

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

EUROPEAN PATENT EP2241387

| OMCR CODE | Work Angle β | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) Fs | Extraction Force (kN) Ef | Page number |
|---|---|---|---|---|---|---|---|
| **CHV050** | 0°÷75° (5° steps) | 50 | 175÷195 | 50x100 | 92÷110 | 4,5÷6,1 | 726 |
| **CHV060** | 0°÷75° (5° steps) | 60 | 210 | 60x100 | 136÷143 | 5,1÷6,2 | 730 |
| **CHV085** | 0°÷75° (5° steps) | 85 | 225 | 85x120 | 229÷293 | 7,10÷12 | 734 |
| **CHV110** | 0°÷75° (5° steps) | 110 | 275 | 110x160 | 357÷407 | 6,2÷16,8 | 738 |
| **CHV150** | 0°÷75° (5° steps) | 150 | 300 | 150x160 | 421÷584 | 17,3÷20,8 | 742 |
| **CHV180** | 0°÷75° (5° steps) | 180 | 300 | 180x160 | 474÷598 | 17,1÷20,5 | 746 |
| **CHV220** | 0°÷75° (5° steps) | 220 | 300 | 220x160 | 635÷732 | 16,6÷46,2 | 750 |
| **CHV260** | 0°÷75° (5° steps) | 260 | 300 | 260x160 | 536÷767 | 16,6÷46,2 | 754 |
| **CHV330** | 0°÷75° (5° steps) | 330 | 375 | 330x180 | 1005÷1020 | 46,5÷94,9 | 758 |
| **CHV400** | 0°÷75° (5° steps) | 400 | 375 | 400x180 | 1052÷1055 | 48÷87,1 | 762 |
| **CHV500** | 0°÷75° (5° steps) | 500 | 375 | 500x180 | 1155 | 64,5÷87,0 | 766 |
| **CHV600** | 0°÷75° (5° steps) | 600 | 400 | 600x200 | 1202 | 84,2÷98,2 | 772 |

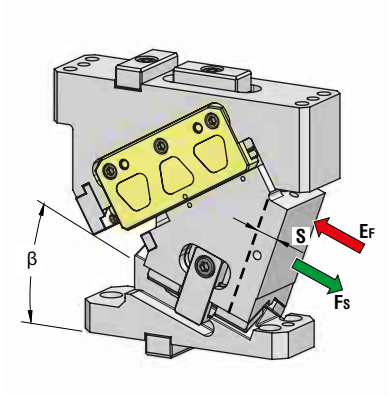






Leading edge five axis machines

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV050.00 | 0° | 28,93 | 92 | 4,5 |
| CHV050.05 | 5° | 31,94 | 92 | 4,8 |
| CHV050.10 | 10° | 35,00 | 92 | 4,8 |
| CHV050.15 | 15° | 38,16 | 92 | 4,8 |
| CHV050.20 | 20° | 41,47 | 92 | 4,8 |
| CHV050.25 | 25° | 45,00 | 92 | 4,8 |
| CHV050.30 | 30° | 48,83 | 92 | 4,8 |
| CHV050.35 | 35° | 53,06 | 92 | 4,8 |
| CHV050.40 | 40° | 57,85 | 92 | 4,8 |
| CHV050.45 | 45° | 63,40 | 92 | 4,8 |
| CHV050.50 | 50° | 62,23 | 92 | 4,6 |
| CHV050.55 | 55° | 59,28 | 98 | 4,7 |
| CHV050.60 | 60° | 60,00 | 104 | 5,1 |
| CHV050.65 | 65° | 59,16 | 110 | 5,3 |
| CHV050.70 | 70° | 58,48 | 110 | 5,7 |
| CHV050.75 | 75° | 57,96 | 110 | 6,1 |

| OPTION CODE | |
|---|---|
| SW | 60 mm |

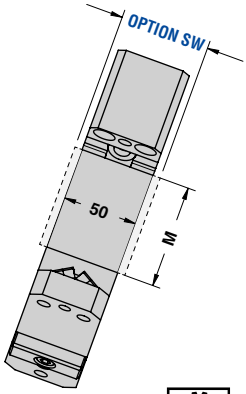
15 ORDER EXAMPLE

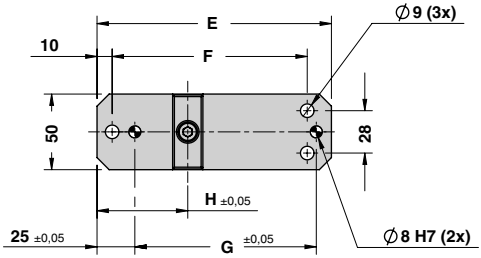
| Art. | Work Angle = 5° | OPTION CODE |
|---|---|---|
| CHV050 | 05 | SW60 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| CHV050.00 | 0° | 170 | 57 | 38 | 193 | 155 | 129 | 120 | 60 | 162 | 160 | 180 | 175 | 68,5 | 20 |
| CHV050.05 | 5° | 173,89 | 60,44 | 35 | 190 | 155 | 129 | 120 | 60 | 167 | 165 | 185 | 175 | 68,5 | 20 |
| CHV050.10 | 10° | 177,66 | 64,77 | 32 | 187 | 155 | 129 | 120 | 60 | 172 | 170 | 190 | 175 | 68,5 | 20 |
| CHV050.15 | 15° | 180,31 | 67,99 | 28 | 183 | 155 | 129 | 120 | 60 | 177 | 175 | 195 | 175 | 68,5 | 20 |
| CHV050.20 | 20° | 180,87 | 71,09 | 22 | 177 | 155 | 129 | 120 | 60 | 177 | 175 | 195 | 175 | 68,5 | 20 |
| CHV050.25 | 25° | 180,34 | 74,06 | 16 | 171 | 155 | 129 | 120 | 60 | 177 | 175 | 195 | 175 | 68,5 | 20 |
| CHV050.30 | 30° | 180,72 | 76,89 | 10 | 165 | 155 | 129 | 120 | 60 | 179 | 177 | 197 | 175 | 68,5 | 20 |
| CHV050.35 | 35° | 179,04 | 79,58 | 3 | 158 | 155 | 129 | 120 | 60 | 179 | 177 | 197 | 175 | 68,5 | 20 |
| CHV050.40 | 40° | 176,31 | 83,12 | -9 | 146 | 155 | 129 | 120 | 60 | 179 | 177 | 197 | 175 | 68,5 | 20 |
| CHV050.45 | 45° | 172,54 | 85,51 | -18 | 137 | 155 | 129 | 120 | 60 | 177 | 175 | 195 | 175 | 68,5 | 20 |
| CHV050.50 | 50° | 161,73 | 93,74 | -33 | 122 | 155 | 129 | 120 | 60 | 172 | 170 | 190 | 180 | 68,5 | 20 |
| CHV050.55 | 55° | 168,28 | 97,72 | -39 | 116 | 155 | 129 | 120 | 45 | 172 | 170 | 190 | 185 | 75 | 80 |
| CHV050.60 | 60° | 173,67 | 104,06 | -49 | 106 | 155 | 129 | 120 | 45 | 172 | 170 | 190 | 190 | 85 | 80 |
| CHV050.65 | 65° | 169,28 | 113,98 | -53 | 92 | 145 | 119 | 110 | 45 | 172 | 170 | 190 | 195 | 90 | 80 |
| CHV050.70 | 70° | 166,95 | 124,76 | -63 | 72 | 135 | 109 | 100 | 45 | 172 | 170 | 190 | 195 | 100 | 90 |
| CHV050.75 | 75° | 165,42 | 134,11 | -68 | 67 | 135 | 109 | 100 | 45 | 172 | 170 | 190 | 195 | 100 | 90 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

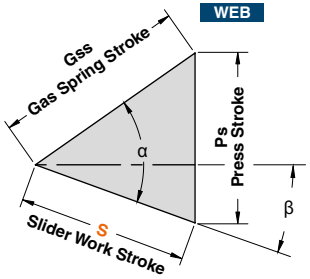
### X VIEW

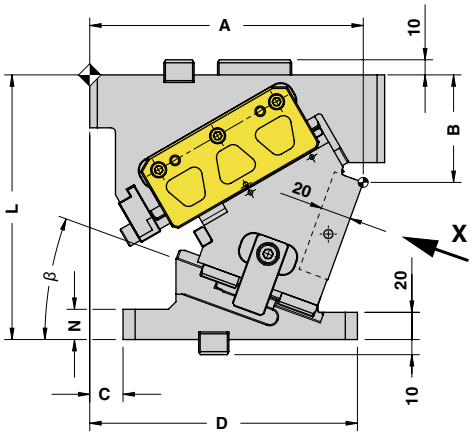


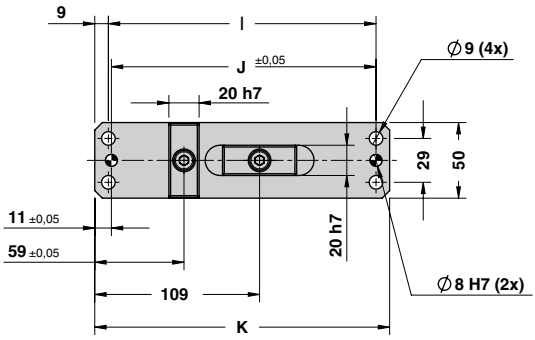

### CAM DIAGRAM

WEB

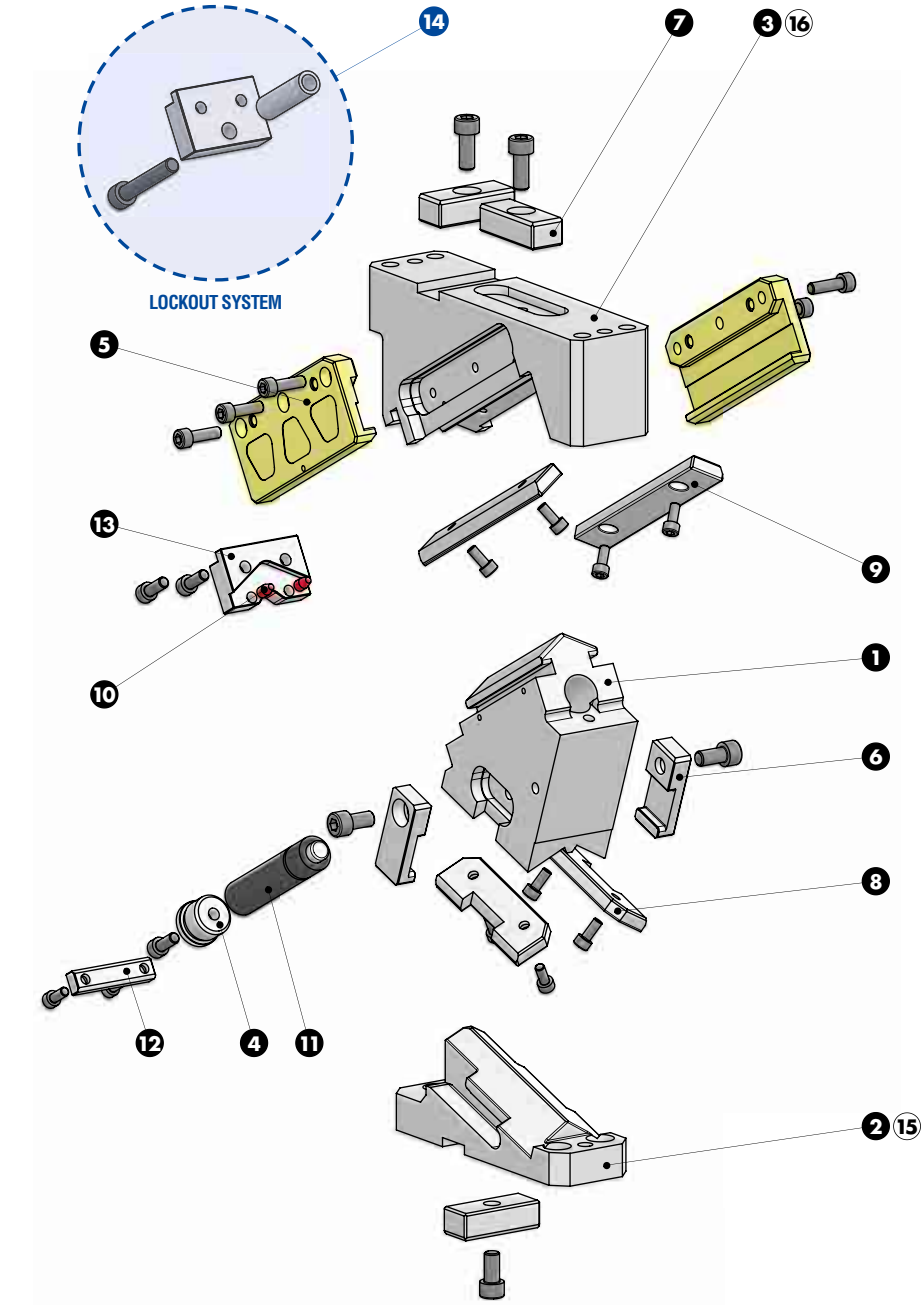



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 28,93 | 34,47 | 45 |
| 5° | 50° | 31,94 | 34,60 | 45 |
| 10° | 50° | 35,00 | 35,00 | 45 |
| 15° | 50° | 38,16 | 35,69 | 45 |
| 20° | 50° | 41,47 | 36,68 | 45 |
| 25° | 50° | 45,00 | 38,04 | 45 |
| 30° | 50° | 48,83 | 39,80 | 45 |
| 35° | 50° | 53,06 | 42,08 | 45 |
| 40° | 50° | 57,85 | 45,00 | 45 |
| 45° | 50° | 63,40 | 48,75 | 45 |
| 50° | 50° | 62,23 | 47,67 | 40 |
| 55° | 55° | 59,28 | 48,56 | 34 |
| 60° | 60° | 60,00 | 51,96 | 30 |
| 65° | 65° | 59,16 | 53,61 | 25 |
| 70° | 70° | 58,48 | 54,95 | 20 |
| 75° | 75° | 57,96 | 55,98 | 15 |

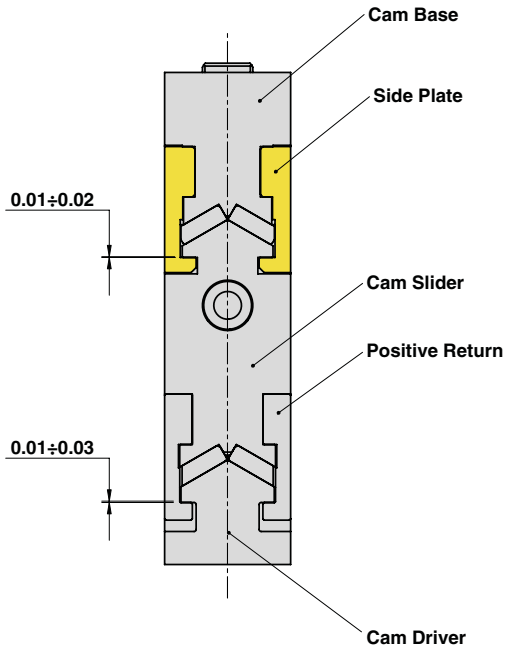


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

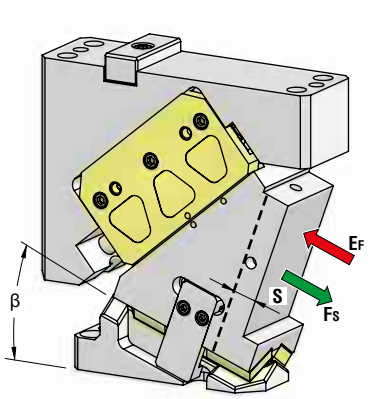





### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Spring spacer | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 3 |
| 8 | Wear Plate | St42 + Syntered layer | 2 |
| 9 | Wear Plate | St42 + Syntered layer | 2 |
| 10 | Elastomer Cap | Elastomer 92SH | 2 |
| 11 | Gas Spring | - | 1 |
| 12 | Safety plate | CK45 | 1 |
| 13 | Stopper plate | CK45 | 1 |
| 14 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 15 | Cam Driver Fixing Screws M8x25 DIN 912 Cl. 12.9 | - | 3 |
| 16 | Cam Base Fixing Screws M8x30 DIN 912 Cl. 12.9 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV060.00 | 0° | 19,28 | 136 | 5,1 |
| CHV060.05 | 5° | 21,29 | 137 | 5,1 |
| CHV060.10 | 10° | 21,54 | 138 | 5,4 |
| CHV060.15 | 15° | 23,79 | 139 | 5,4 |
| CHV060.20 | 20° | 24,46 | 140 | 5,7 |
| CHV060.25 | 25° | 27,12 | 141 | 5,7 |
| CHV060.30 | 30° | 30 | 142 | 5,7 |
| CHV060.35 | 35° | 31,72 | 143 | 5,9 |
| CHV060.40 | 40° | 35,49 | 143 | 5,9 |
| CHV060.45 | 45° | 38,45 | 143 | 6,0 |
| CHV060.50 | 50° | 43,86 | 142 | 6,0 |
| CHV060.55 | 55° | 49,15 | 142 | 6,1 |
| CHV060.60 | 60° | 57,96 | 142 | 6,1 |
| CHV060.65 | 65° | 68,57 | 142 | 6,2 |
| CHV060.70 | 70° | 70,60 | 141 | 6,2 |
| CHV060.75 | 75° | 76,10 | 141 | 6,2 |

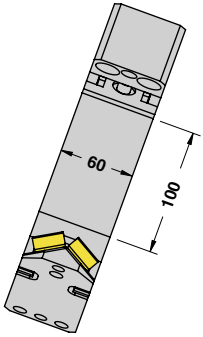
15 ORDER EXAMPLE

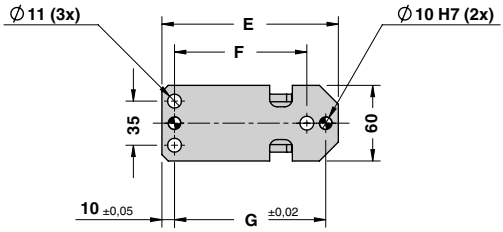
| Art. | Work Angle = 5° |
|---|---|
| CHV060 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K |
| CHV060.00 | 0° | 175 | 55 | 25 | 180 | 155 | 105 | 120 | 180 | 175 | 62,5 | 205 |
| CHV060.05 | 5° | 179,26 | 57,37 | 25 | 175 | 150 | 105 | 120 | 180 | 175 | 62,5 | 205 |
| CHV060.10 | 10° | 183,30 | 60,10 | 25 | 170 | 145 | 105 | 120 | 180 | 175 | 62,5 | 205 |
| CHV060.15 | 15° | 189,68 | 63,51 | 25 | 165 | 140 | 105 | 120 | 180 | 175 | 62,5 | 205 |
| CHV060.20 | 20° | 190,59 | 76,57 | 25 | 165 | 140 | 105 | 120 | 180 | 175 | 62,5 | 205 |
| CHV060.25 | 25° | 193,79 | 80,25 | 25 | 150 | 125 | 80 | 95 | 180 | 175 | 62,5 | 205 |
| CHV060.30 | 30° | 196,65 | 84,20 | 25 | 150 | 125 | 80 | 95 | 180 | 175 | 62,5 | 205 |
| CHV060.35 | 35° | 199,16 | 88,38 | 25 | 140 | 115 | 80 | 95 | 180 | 175 | 62,5 | 205 |
| CHV060.40 | 40° | 198,08 | 96,60 | 10 | 120 | 110 | 65 | 80 | 195 | 190 | 62,5 | 220 |
| CHV060.45 | 45° | 225,96 | 104,39 | 40 | 145 | 105 | 65 | 80 | 210 | 205 | 92,5 | 235 |
| CHV060.50 | 50° | 211,71 | 113,44 | 10 | 115 | 105 | 50 | 65 | 195 | 190 | 77,5 | 220 |
| CHV060.55 | 55° | 212,11 | 117,54 | 10 | 115 | 105 | 50 | 70 | 195 | 190 | 77,5 | 220 |
| CHV060.60 | 60° | 203,48 | 126,65 | 10 | 102 | 92 | 50 | 65 | 195 | 190 | 77,5 | 220 |
| CHV060.65 | 65° | 202,75 | 129,98 | 10 | 95 | 85 | 50 | 65 | 195 | 190 | 77,5 | 220 |
| CHV060.70 | 70° | 205,54 | 146,39 | 10 | 95 | 85 | 20 | 35 | 195 | 190 | 62,5 | 220 |
| CHV060.75 | 75° | 204,77 | 151,21 | 10 | 90 | 80 | 20 | 35 | 210 | 205 | 62,5 | 235 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

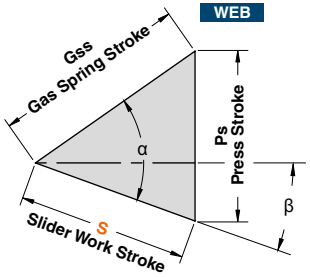
### X VIEW

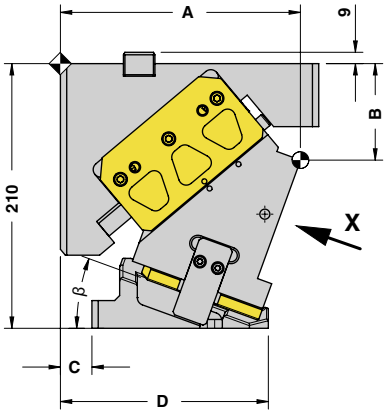


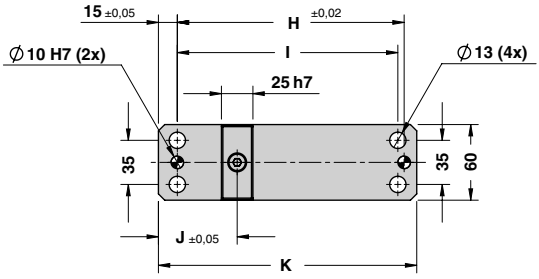

### CAM DIAGRAM

WEB

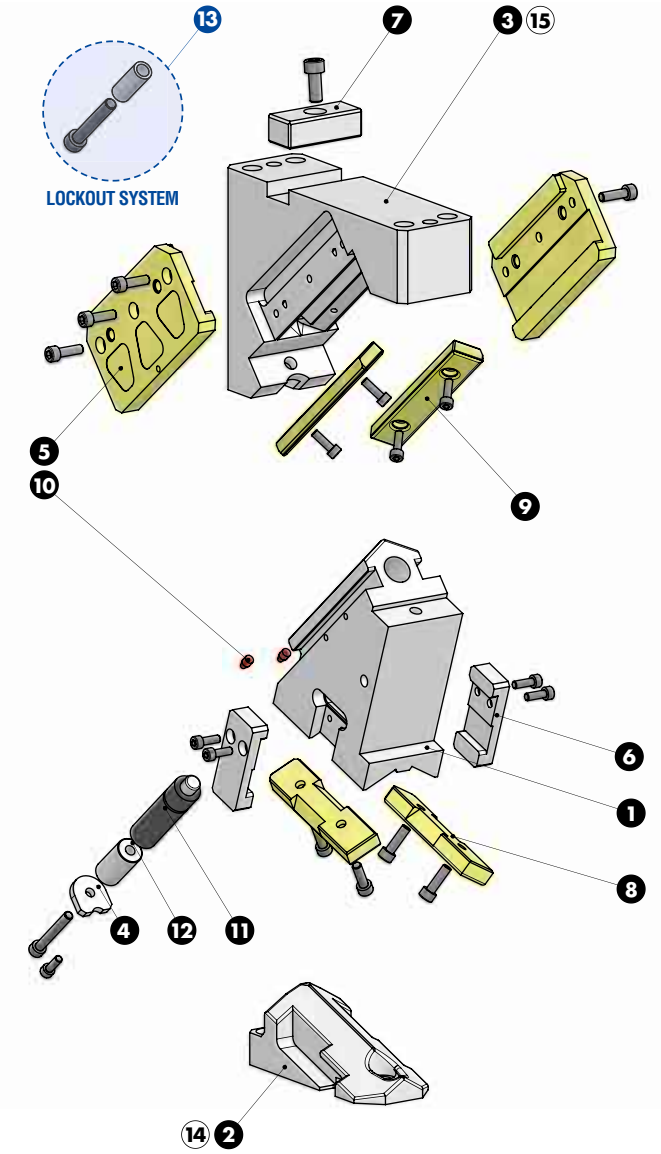



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 19,28 | 22,98 | 30 |
| 5° | 50° | 21,29 | 23,07 | 30 |
| 10° | 55° | 21,54 | 24,95 | 30 |
| 15° | 55° | 23,79 | 25,44 | 30 |
| 20° | 60° | 24,46 | 27,65 | 30 |
| 25° | 60° | 27,12 | 28,67 | 30 |
| 30° | 60° | 30,00 | 30,00 | 30 |
| 35° | 65° | 31,72 | 33,19 | 30 |
| 40° | 65° | 35,49 | 35,49 | 30 |
| 45° | 70° | 38,45 | 39,87 | 30 |
| 50° | 70° | 43,86 | 43,86 | 30 |
| 55° | 75° | 49,15 | 50,52 | 30 |
| 60° | 75° | 57,96 | 57,96 | 30 |
| 65° | 80° | 68,57 | 69,91 | 30 |
| 70° | 85° | 70,60 | 72,82 | 25 |
| 75° | 85° | 76,10 | 76,98 | 20 |

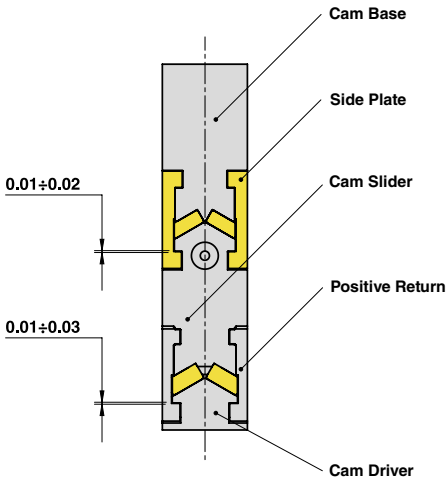


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

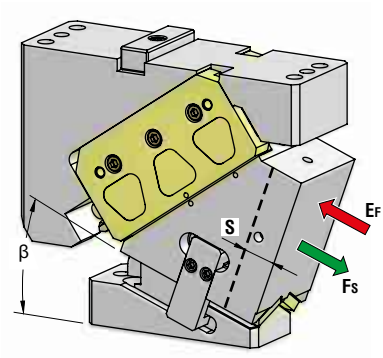
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Elastomer Cap | Elastomer 92SH | 2 |
| 11 | Gas Spring | - | 1 |
| 12 | Spring Spacer | CK45 | 1 |
| 13 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 14 | Cam Driver Fixing Screws M10x30 DIN 912 | - | 3 |
| 15 | Cam Base Fixing Screws M12x60 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV085.00 | 0° | 30,85 | 230 | 10,0 |
| CHV085.05 | 5° | 34,07 | 230 | 10,0 |
| CHV085.10 | 10° | 34,46 | 230 | 10,5 |
| CHV085.15 | 15° | 38,07 | 230 | 10,5 |
| CHV085.20 | 20° | 41,84 | 230 | 10,5 |
| CHV085.25 | 25° | 43,38 | 229 | 11,0 |
| CHV085.30 | 30° | 48 | 229 | 11,0 |
| CHV085.35 | 35° | 50,75 | 229 | 11,4 |
| CHV085.40 | 40° | 56,79 | 237 | 11,4 |
| CHV085.45 | 45° | 42,30 | 245 | 11,5 |
| CHV085.50 | 50° | 48,24 | 253 | 11,5 |
| CHV085.55 | 55° | 54,06 | 261 | 11,8 |
| CHV085.60 | 60° | 63,75 | 269 | 11,8 |
| CHV085.65 | 65° | 75,42 | 277 | 11,9 |
| CHV085.70 | 70° | 95,02 | 285 | 11,9 |
| CHV085.75 | 75° | 95,13 | 293 | 12,0 |

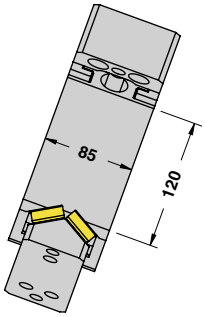
15 ORDER EXAMPLE

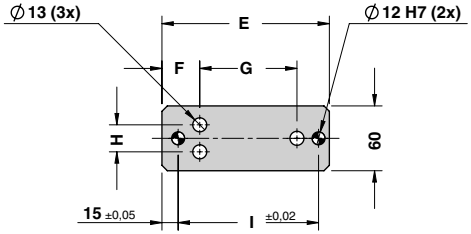
| Art. | Work Angle = 5° |
|---|---|
| CHV085 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L |
| CHV085.00 | 0° | 238 | 60 | 55 | 230 | 175 | 35 | 90 | 25 | 130 | 225 | 82 | 255 |
| CHV085.05 | 5° | 243,28 | 64,18 | 55 | 225 | 170 | 35 | 90 | 25 | 130 | 225 | 88 | 255 |
| CHV085.10 | 10° | 247,73 | 73,75 | 55 | 215 | 160 | 35 | 90 | 25 | 130 | 225 | 88 | 255 |
| CHV085.15 | 15° | 252,64 | 78,77 | 55 | 210 | 155 | 35 | 90 | 25 | 130 | 225 | 97 | 255 |
| CHV085.20 | 20° | 259,24 | 79,51 | 55 | 210 | 155 | 35 | 90 | 25 | 130 | 225 | 103 | 255 |
| CHV085.25 | 25° | 262,37 | 90,08 | 40 | 195 | 155 | 35 | 90 | 25 | 130 | 255 | 103 | 285 |
| CHV085.30 | 30° | 272,11 | 87,71 | 40 | 195 | 155 | 35 | 90 | 25 | 130 | 255 | 112 | 285 |
| CHV085.35 | 35° | 277,45 | 94,87 | 40 | 195 | 155 | 35 | 90 | 25 | 130 | 255 | 112 | 285 |
| CHV085.40 | 40° | 282,59 | 102,49 | 40 | 195 | 155 | 35 | 90 | 25 | 130 | 255 | 122,5 | 285 |
| CHV085.45 | 45° | 245,4 | 117,6 | 0 | 150 | 150 | 35 | 70 | 25 | 110 | 235 | 92 | 265 |
| CHV085.50 | 50° | 247,12 | 127,38 | 0 | 135 | 135 | 35 | 70 | 25 | 110 | 235 | 96,5 | 265 |
| CHV085.55 | 55° | 263 | 126,74 | 0 | 135 | 135 | 35 | 70 | 25 | 110 | 235 | 96,5 | 265 |
| CHV085.60 | 60° | 267,02 | 136,11 | 0 | 135 | 135 | 35 | 70 | 25 | 110 | 235 | 104 | 265 |
| CHV085.65 | 65° | 257,06 | 147,15 | 0 | 126 | 126 | 35 | 60 | 25 | 100 | 235 | 104 | 265 |
| CHV085.70 | 70° | 248,86 | 160,81 | 5 | 114 | 109 | 15 | 40 | 35 | 60 | 245 | 82,5 | 275 |
| CHV085.75 | 75° | 251,61 | 181,07 | 5 | 114 | 109 | 15 | 40 | 35 | 60 | 245 | 82,5 | 275 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

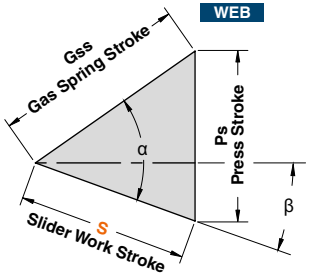
### X VIEW

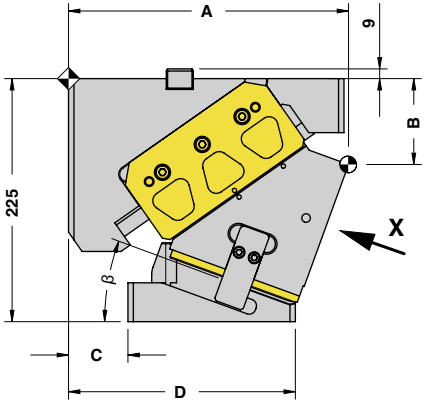


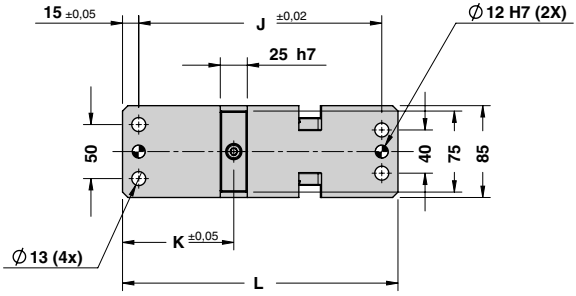

### CAM DIAGRAM

WEB

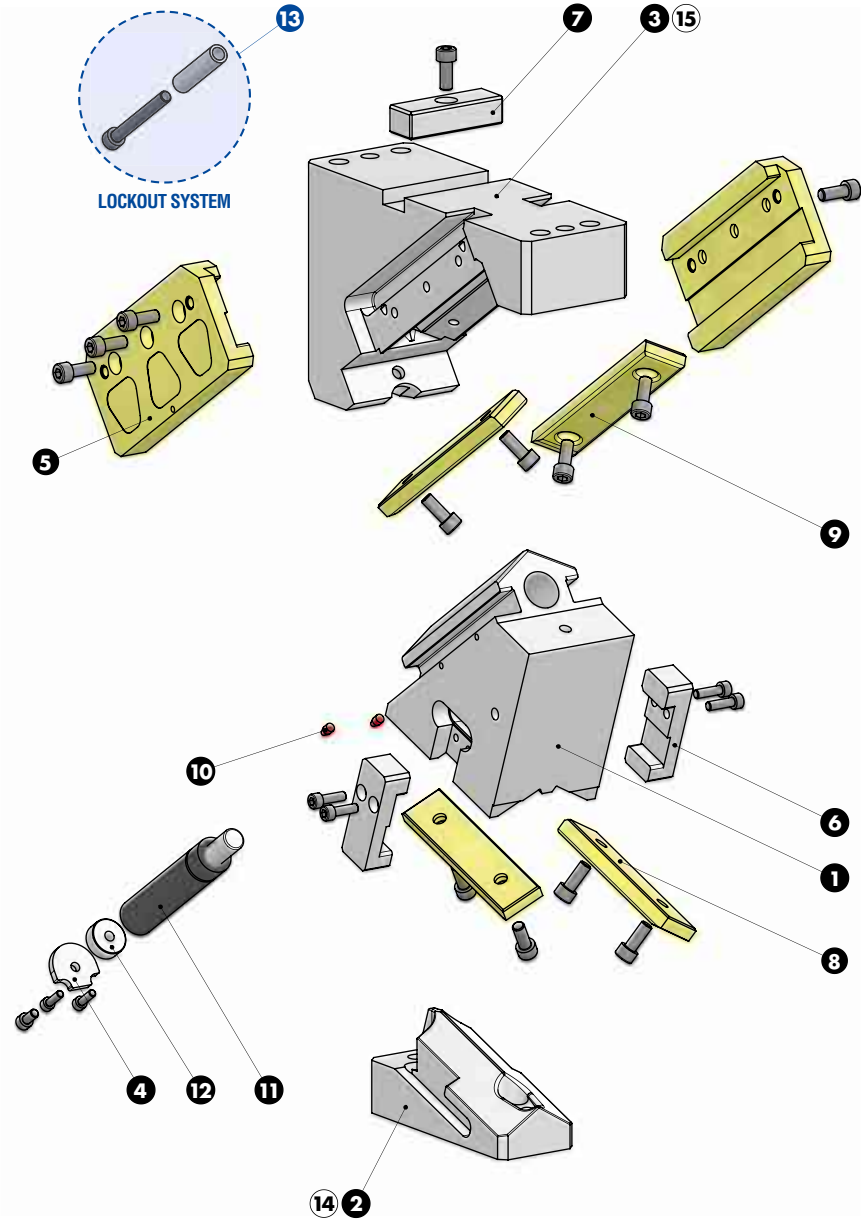



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 30,85 | 36,77 | 48 |
| 5° | 50° | 34,07 | 36,91 | 48 |
| 10° | 55° | 34,46 | 39,93 | 48 |
| 15° | 55° | 38,07 | 40,71 | 48 |
| 20° | 55° | 41,84 | 41,84 | 48 |
| 25° | 60° | 43,38 | 45,87 | 48 |
| 30° | 60° | 48,00 | 48,00 | 48 |
| 35° | 65° | 50,75 | 53,11 | 48 |
| 40° | 65° | 56,79 | 56,79 | 48 |
| 45° | 70° | 42,30 | 43,85 | 33 |
| 50° | 70° | 48,24 | 48,24 | 33 |
| 55° | 75° | 54,06 | 55,57 | 33 |
| 60° | 75° | 63,75 | 63,75 | 33 |
| 65° | 80° | 75,42 | 76,90 | 33 |
| 70° | 80° | 95,02 | 95,02 | 33 |
| 75° | 85° | 95,13 | 96,23 | 25 |

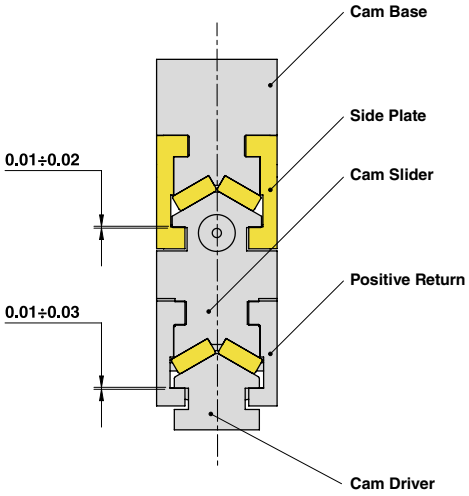


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

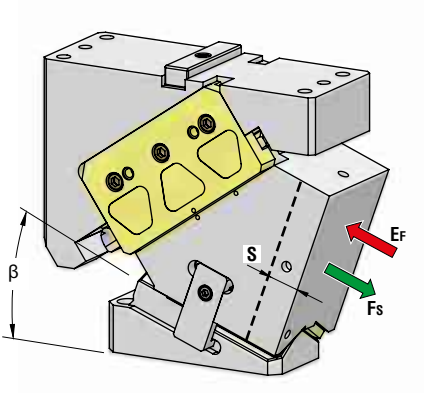
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 1 |
| 8 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Elastomer Cap | Elastomer 92SH | 2 |
| 11 | Gas Spring | - | 1 |
| 12 | Spring Spacer | CK45 | 1 |
| 13 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 14 | Cam Driver Fixing Screws M12x35 DIN 912 | - | 3 |
| 15 | Cam Base Fixing Screws M12x65 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV110.00 | 0° | 30,85 | 357 | 11,4 |
| CHV110.05 | 5° | 34,07 | 366 | 11,4 |
| CHV110.10 | 10° | 34,46 | 369 | 12,2 |
| CHV110.15 | 15° | 38,07 | 372 | 12,2 |
| CHV110.20 | 20° | 41,84 | 375 | 12,2 |
| CHV110.25 | 25° | 43,38 | 378 | 12,8 |
| CHV110.30 | 30° | 48 | 381 | 12,8 |
| CHV110.35 | 35° | 50,75 | 384 | 13,4 |
| CHV110.40 | 40° | 56,79 | 387 | 13,4 |
| CHV110.45 | 45° | 61,52 | 390 | 13,6 |
| CHV110.50 | 50° | 48,24 | 393 | 13,6 |
| CHV110.55 | 55° | 54,06 | 396 | 13,6 |
| CHV110.60 | 60° | 63,75 | 399 | 14,0 |
| CHV110.65 | 65° | 75,42 | 402 | 14,3 |
| CHV110.70 | 70° | 95,02 | 405 | 14,4 |
| CHV110.75 | 75° | 95,13 | 407 | 14,4 |

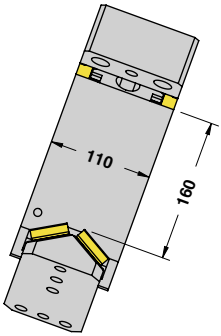
15 ORDER EXAMPLE

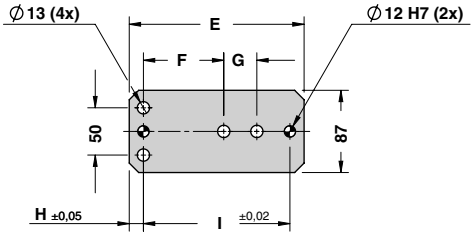
| Art. | Work Angle = 5° |
|---|---|
| CHV110 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M |
| CHV110.00 | 0° | 278 | 70 | 60 | 270 | 210 | 85 | 35 | 15 | 155 | 15 | 255 | 97,5 | 290 |
| CHV110.05 | 5° | 285,45 | 74,28 | 60 | 265 | 205 | 85 | 35 | 15 | 155 | 15 | 255 | 117 | 290 |
| CHV110.10 | 10° | 292,94 | 79,21 | 60 | 255 | 195 | 85 | 35 | 15 | 155 | 15 | 255 | 124,5 | 290 |
| CHV110.15 | 15° | 300,41 | 84,79 | 60 | 250 | 190 | 85 | 35 | 15 | 155 | 15 | 255 | 133,5 | 290 |
| CHV110.20 | 20° | 307,80 | 91,02 | 60 | 245 | 185 | 85 | 35 | 15 | 155 | 15 | 255 | 141 | 290 |
| CHV110.25 | 25° | 302,93 | 102,42 | 50 | 228 | 178 | 40 | 45 | 15 | 135 | 20 | 260 | 140 | 300 |
| CHV110.30 | 30° | 309,61 | 109,72 | 50 | 222 | 172 | 40 | 45 | 15 | 135 | 20 | 260 | 147,5 | 300 |
| CHV110.35 | 35° | 316,06 | 117,58 | 50 | 217 | 167 | 40 | 45 | 15 | 135 | 20 | 260 | 155 | 300 |
| CHV110.40 | 40° | 322,23 | 126 | 50 | 213 | 163 | 40 | 45 | 15 | 135 | 20 | 260 | 162,5 | 300 |
| CHV110.45 | 45° | 311,62 | 131,41 | 10 | 193 | 183 | 55 | 45 | 20 | 120 | 15 | 265 | 148,5 | 295 |
| CHV110.50 | 50° | 309,74 | 147,60 | 10 | 182 | 172 | 55 | 45 | 20 | 120 | 15 | 265 | 154,5 | 295 |
| CHV110.55 | 55° | 302,27 | 165,76 | 10 | 167 | 157 | 55 | 45 | 20 | 120 | 15 | 265 | 175,5 | 295 |
| CHV110.60 | 60° | 305,96 | 174,61 | 10 | 165 | 155 | 55 | 45 | 20 | 120 | 15 | 265 | 175,5 | 295 |
| CHV110.65 | 65° | 285,71 | 195,11 | 0 | 137 | 137 | 55 | 25 | 20 | 100 | 15 | 265 | 155,5 | 295 |
| CHV110.70 | 70° | 288,18 | 208,33 | 0 | 135 | 135 | 55 | 25 | 20 | 100 | 15 | 265 | 155,5 | 295 |
| CHV110.75 | 75° | 290,36 | 211,76 | 0 | 134 | 134 | 55 | 25 | 20 | 100 | 15 | 275 | 155,5 | 310 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

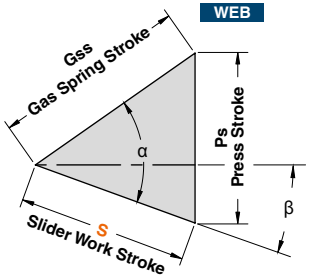
### X VIEW

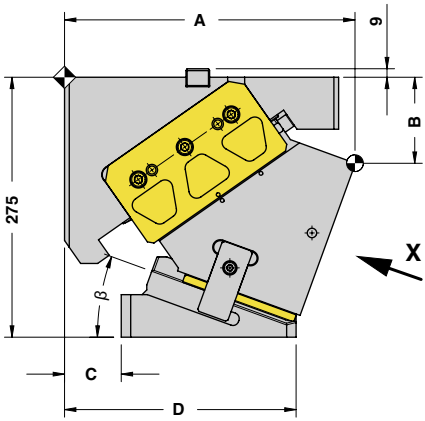


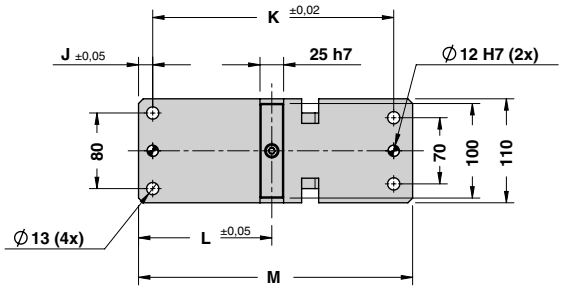

### CAM DIAGRAM

WEB

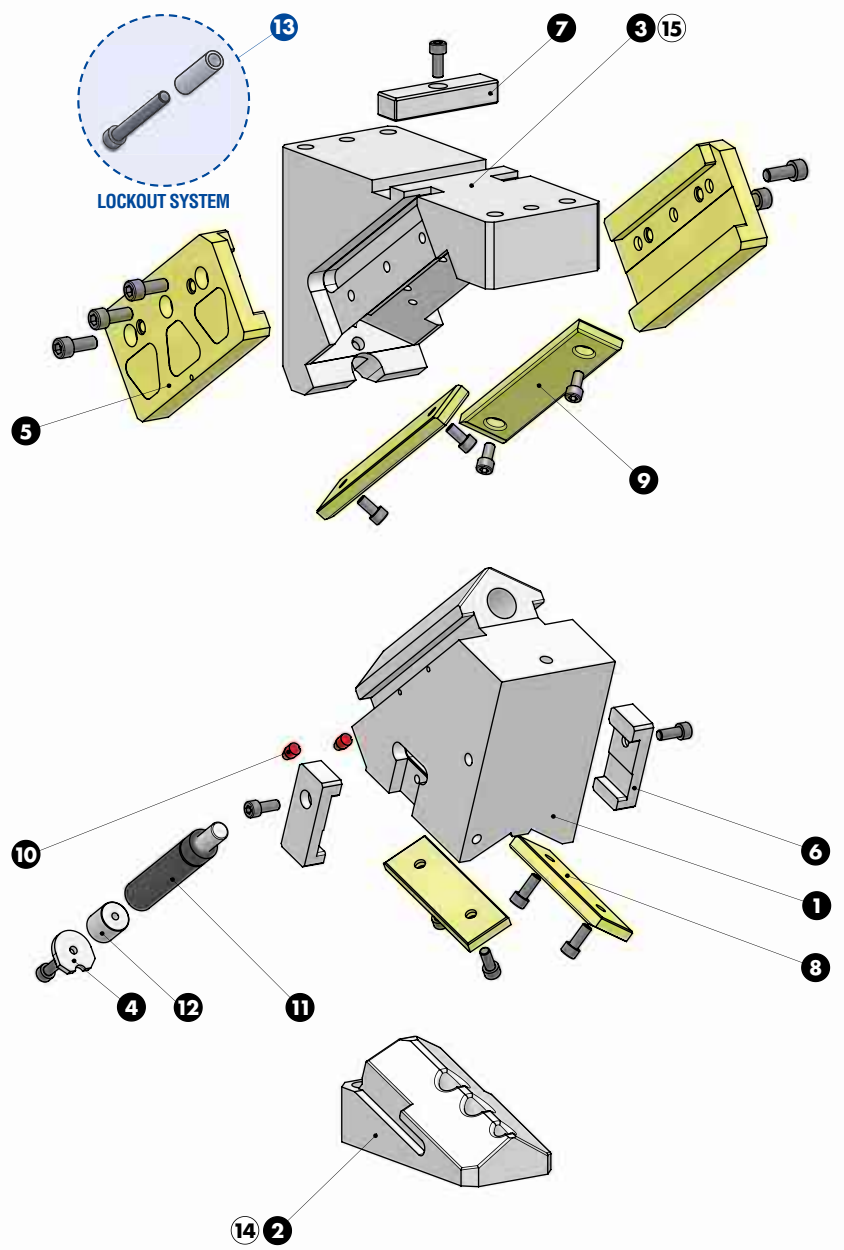



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 30,85 | 36,77 | 48 |
| 5° | 50° | 34,07 | 36,91 | 48 |
| 10° | 55° | 34,46 | 39,93 | 48 |
| 15° | 55° | 38,07 | 40,71 | 48 |
| 20° | 55° | 41,84 | 41,84 | 48 |
| 25° | 60° | 43,38 | 45,87 | 48 |
| 30° | 60° | 48,00 | 48,00 | 48 |
| 35° | 65° | 50,75 | 53,11 | 48 |
| 40° | 65° | 56,79 | 56,79 | 48 |
| 45° | 70° | 61,52 | 63,79 | 48 |
| 50° | 70° | 48,24 | 48,24 | 33 |
| 55° | 75° | 54,06 | 55,57 | 33 |
| 60° | 75° | 63,75 | 63,75 | 33 |
| 65° | 80° | 75,42 | 76,90 | 33 |
| 70° | 80° | 95,02 | 95,02 | 33 |
| 75° | 85° | 95,13 | 96,23 | 25 |

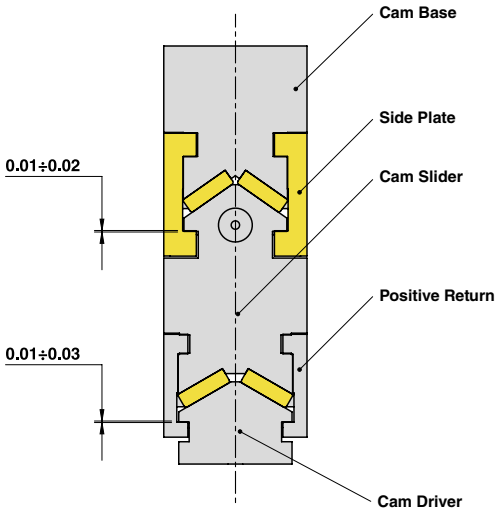


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

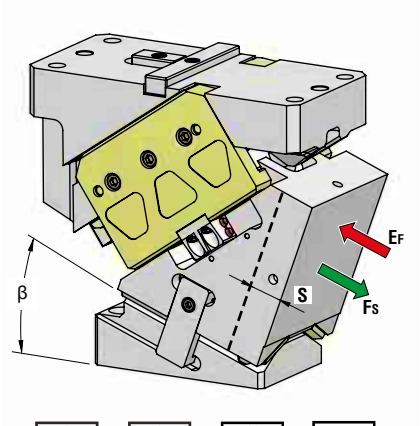
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 1 |
| 8 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 9 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Elastomer Cap | Elastomer 92SH | 2 |
| 11 | Gas Spring | - | 1 |
| 12 | Spring Spacer | CK45 | 1 |
| 13 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 14 | Cam Driver Fixing Screws M12x45 DIN 912 | - | 4 |
| 15 | Cam Base Fixing Screws M12x65 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV150.00 | 0° | 32,14 | 421 | 16,4 |
| CHV150.05 | 5° | 35,49 | 435 | 16,4 |
| CHV150.10 | 10° | 35,90 | 448 | 17,5 |
| CHV150.15 | 15° | 39,65 | 462 | 17,5 |
| CHV150.20 | 20° | 43,59 | 476 | 17,5 |
| CHV150.25 | 25° | 45,19 | 489 | 18,4 |
| CHV150.30 | 30° | 50 | 503 | 18,4 |
| CHV150.35 | 35° | 52,86 | 517 | 19,2 |
| CHV150.40 | 40° | 59,16 | 528 | 19,2 |
| CHV150.45 | 45° | 64,09 | 540 | 19,8 |
| CHV150.50 | 50° | 73,10 | 551 | 19,8 |
| CHV150.55 | 55° | 81,92 | 558 | 20,3 |
| CHV150.60 | 60° | 96,59 | 565 | 20,3 |
| CHV150.65 | 65° | 91,42 | 571 | 20,5 |
| CHV150.70 | 70° | 84,73 | 578 | 20,7 |
| CHV150.75 | 75° | 76,10 | 584 | 20,6 |

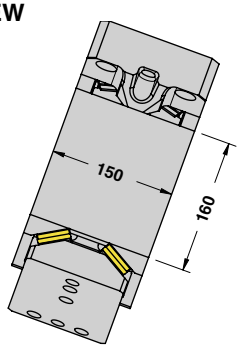
15 ORDER EXAMPLE

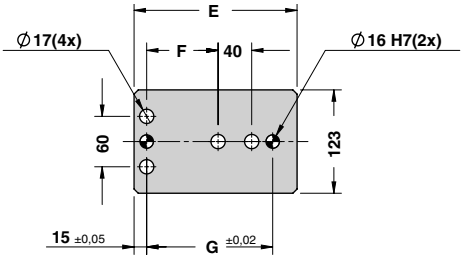
| Art. | Work Angle = 5° |
|---|---|
| CHV150 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L |
| CHV150.00 | 0° | 298 | 65 | 70 | 290 | 220 | 85 | 150 | 25 | 270 | 54 | 117 | 310 |
| CHV150.05 | 5° | 307,20 | 69,35 | 70 | 280 | 210 | 85 | 150 | 25 | 270 | 61,5 | 124,5 | 310 |
| CHV150.10 | 10° | 313,81 | 89,28 | 70 | 270 | 200 | 85 | 150 | 25 | 270 | 69 | 132 | 310 |
| CHV150.15 | 15° | 321,70 | 94,96 | 70 | 265 | 195 | 85 | 150 | 25 | 270 | 78 | 141 | 310 |
| CHV150.20 | 20° | 329,51 | 101,32 | 70 | 264 | 194 | 85 | 150 | 25 | 270 | 85,5 | 148,5 | 310 |
| CHV150.25 | 25° | 342,93 | 117,42 | 60 | 262 | 202 | 105 | 170 | 15 | 320 | 104,5 | 167,5 | 350 |
| CHV150.30 | 30° | 352,11 | 125,39 | 60 | 259 | 199 | 105 | 170 | 15 | 320 | 112 | 175 | 350 |
| CHV150.35 | 35° | 364,66 | 130,30 | 60 | 261 | 201 | 105 | 170 | 15 | 320 | 119,5 | 182,5 | 350 |
| CHV150.40 | 40° | 371,87 | 144,51 | 60 | 257 | 197 | 105 | 170 | 15 | 320 | 127 | 190 | 350 |
| CHV150.45 | 45° | 325,76 | 152,27 | 20 | 202 | 182 | 85 | 150 | 15 | 310 | 73 | 136 | 340 |
| CHV150.50 | 50° | 332,72 | 168,31 | 20 | 199 | 179 | 85 | 150 | 15 | 310 | 79 | 142 | 340 |
| CHV150.55 | 55° | 347,32 | 179,21 | 20 | 206 | 186 | 85 | 150 | 15 | 310 | 64,5 | 127,5 | 340 |
| CHV150.60 | 60° | 353,59 | 197,11 | 20 | 203 | 183 | 85 | 150 | 15 | 310 | 71,5 | 134,5 | 340 |
| CHV150.65 | 65° | 359,15 | 205,52 | 20 | 203 | 183 | 85 | 150 | 15 | 310 | 71,5 | 134,5 | 340 |
| CHV150.70 | 70° | 334,26 | 226,10 | 0 | 168 | 168 | 70 | 135 | 15 | 310 | 71,5 | 134,5 | 340 |
| CHV150.75 | 75° | 338,15 | 234,94 | 0 | 167 | 167 | 70 | 135 | 15 | 310 | 71,5 | 134,5 | 340 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

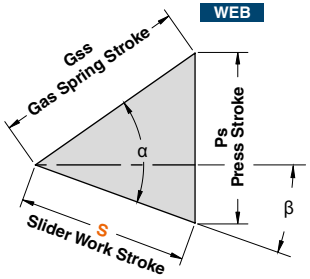
### X VIEW

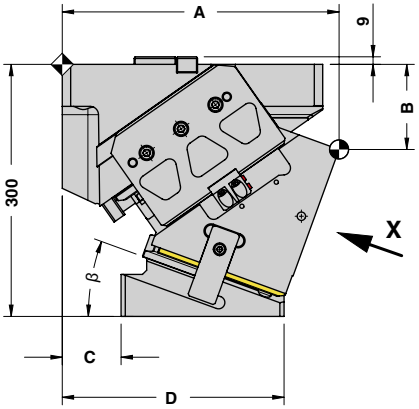


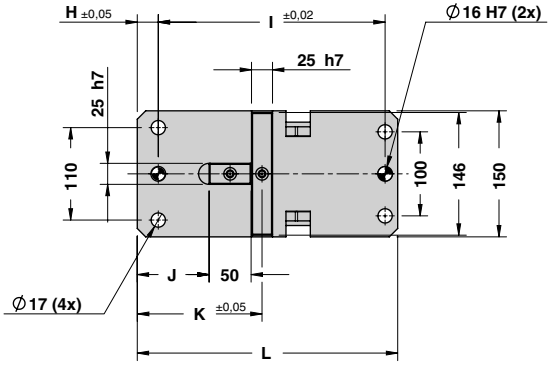

### CAM DIAGRAM

WEB

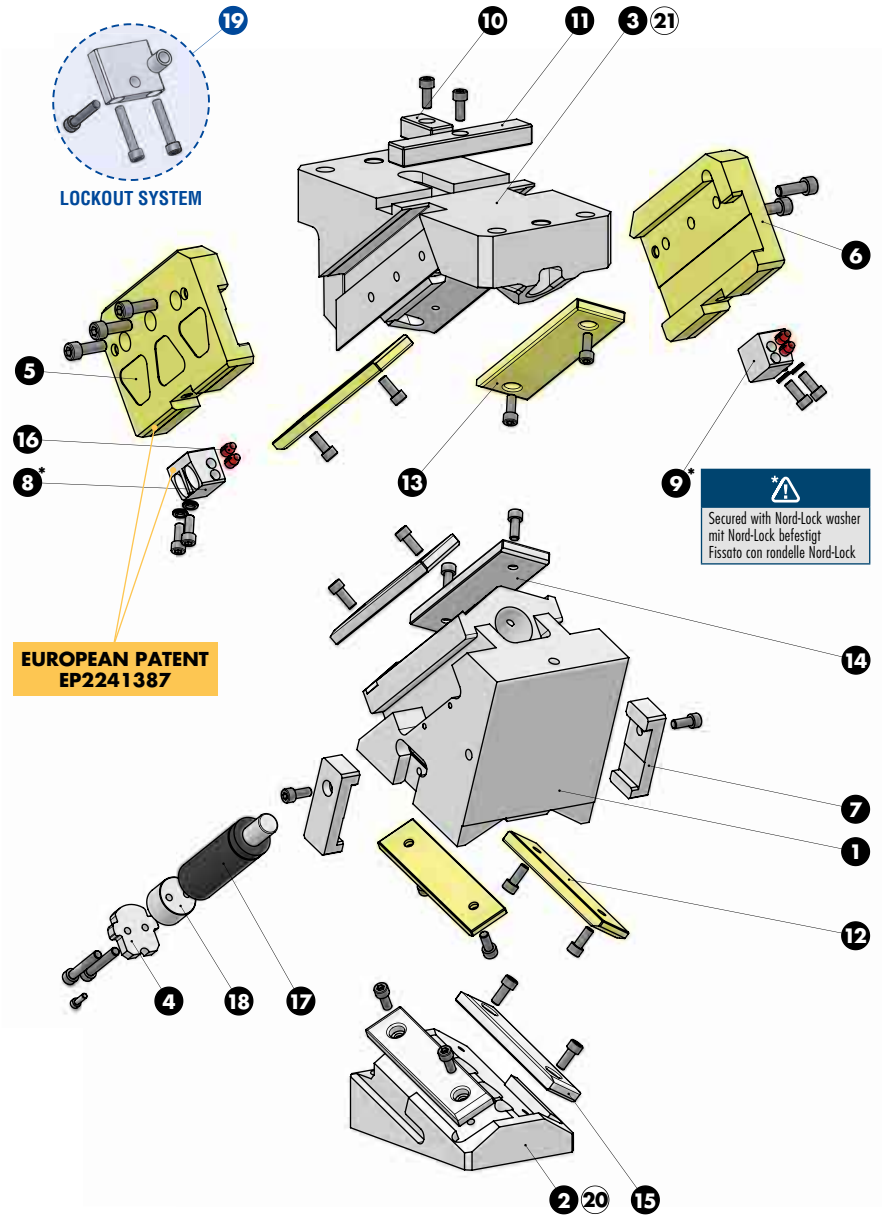



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 60° | 45,19 | 47,78 | 50 |
| 30° | 60° | 50,00 | 50,00 | 50 |
| 35° | 65° | 52,86 | 55,32 | 50 |
| 40° | 65° | 59,16 | 59,16 | 50 |
| 45° | 70° | 64,09 | 66,45 | 50 |
| 50° | 70° | 73,10 | 73,10 | 50 |
| 55° | 75° | 81,92 | 84,20 | 50 |
| 60° | 75° | 96,59 | 96,59 | 50 |
| 65° | 80° | 91,42 | 93,21 | 40 |
| 70° | 85° | 84,73 | 87,38 | 30 |
| 75° | 85° | 76,10 | 76,98 | 20 |

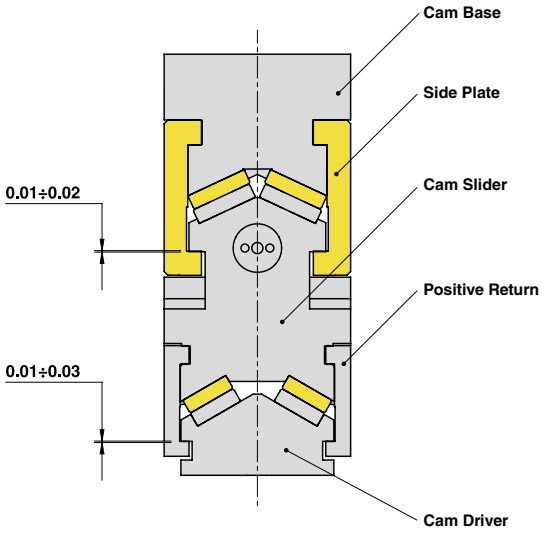


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

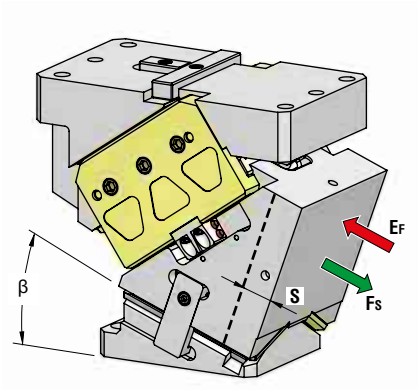
### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Slide Reaction L | CK45 | 1 |
| 9 | Slide Reaction R | CK45 | 1 |
| 10 | Key | CK45 | 1 |
| 11 | Key | CK45 | 1 |
| 12 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 13 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 14 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 15 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 16 | Elastomer Cap | Elastomer 92SH | 4 |
| 17 | Gas Spring | - | 1 |
| 18 | Gas Spring Spacer | CK45 | 1 |
| 19 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 20 | Cam Driver Fixing Screws M16x55 DIN 912 | - | 4 |
| 21 | Cam Base Fixing Screws M16x65 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV180.00 | 0° | 32,14 | 474 | 16,2 |
| CHV180.05 | 5° | 35,49 | 488 | 16,2 |
| CHV180.10 | 10° | 35,90 | 503 | 17,3 |
| CHV180.15 | 15° | 39,65 | 518 | 17,3 |
| CHV180.20 | 20° | 43,59 | 533 | 17,3 |
| CHV180.25 | 25° | 45,19 | 542 | 18,2 |
| CHV180.30 | 30° | 50 | 543 | 18,2 |
| CHV180.35 | 35° | 52,86 | 543 | 18,9 |
| CHV180.40 | 40° | 59,16 | 550 | 18,9 |
| CHV180.45 | 45° | 64,09 | 557 | 19,5 |
| CHV180.50 | 50° | 73,10 | 564 | 19,5 |
| CHV180.55 | 55° | 81,92 | 571 | 20,0 |
| CHV180.60 | 60° | 96,59 | 578 | 20,0 |
| CHV180.65 | 65° | 91,42 | 584 | 20,2 |
| CHV180.70 | 70° | 84,73 | 591 | 20,4 |
| CHV180.75 | 75° | 76,10 | 598 | 20,3 |

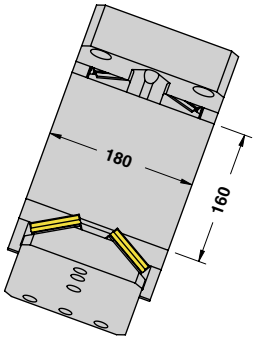
15 | ORDER EXAMPLE

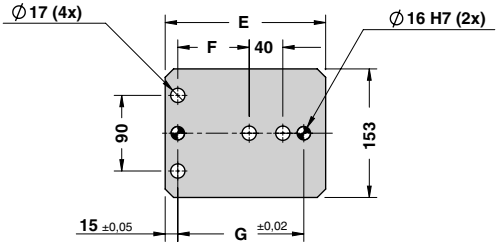
| Art. | Work Angle = 5° |
|---|---|
| CHV180 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L |
| CHV180.00 | 0° | 298 | 65 | 70 | 290 | 220 | 85 | 150 | 25 | 270 | 54 | 117 | 310 |
| CHV180.05 | 5° | 307,20 | 69,35 | 70 | 280 | 210 | 85 | 150 | 25 | 270 | 61,5 | 124,5 | 310 |
| CHV180.10 | 10° | 313,81 | 89,28 | 70 | 270 | 200 | 85 | 150 | 25 | 270 | 69 | 132 | 310 |
| CHV180.15 | 15° | 321,70 | 94,96 | 70 | 265 | 195 | 85 | 150 | 25 | 270 | 78 | 141 | 310 |
| CHV180.20 | 20° | 329,51 | 101,32 | 70 | 261 | 191 | 85 | 150 | 25 | 270 | 85,5 | 148,5 | 310 |
| CHV180.25 | 25° | 342,93 | 117,42 | 60 | 259 | 199 | 105 | 170 | 15 | 320 | 104,5 | 167,5 | 350 |
| CHV180.30 | 30° | 352,11 | 125,39 | 60 | 259 | 199 | 105 | 170 | 15 | 320 | 112 | 175 | 350 |
| CHV180.35 | 35° | 364,66 | 130,30 | 60 | 261 | 201 | 105 | 170 | 15 | 320 | 119,5 | 182,5 | 350 |
| CHV180.40 | 40° | 371,87 | 144,51 | 60 | 257 | 197 | 105 | 170 | 15 | 320 | 127 | 190 | 350 |
| CHV180.45 | 45° | 325,76 | 152,27 | 20 | 202 | 182 | 85 | 150 | 15 | 310 | 73 | 136 | 340 |
| CHV180.50 | 50° | 332,72 | 168,31 | 20 | 199 | 179 | 85 | 150 | 15 | 310 | 79 | 142 | 340 |
| CHV180.55 | 55° | 347,32 | 179,21 | 20 | 206 | 186 | 85 | 150 | 15 | 310 | 64,5 | 127,5 | 340 |
| CHV180.60 | 60° | 353,59 | 197,11 | 20 | 202 | 182 | 85 | 150 | 15 | 310 | 71,5 | 134,5 | 340 |
| CHV180.65 | 65° | 359,15 | 205,52 | 20 | 201 | 181 | 85 | 150 | 15 | 310 | 71,5 | 134,5 | 340 |
| CHV180.70 | 70° | 334,26 | 226,10 | 0 | 168 | 168 | 70 | 135 | 15 | 310 | 71,5 | 134,5 | 340 |
| CHV180.75 | 75° | 338,15 | 234,94 | 0 | 172 | 172 | 70 | 135 | 15 | 310 | 71,5 | 134,5 | 340 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

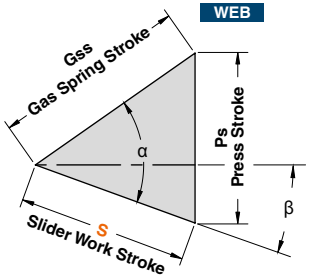
### X VIEW

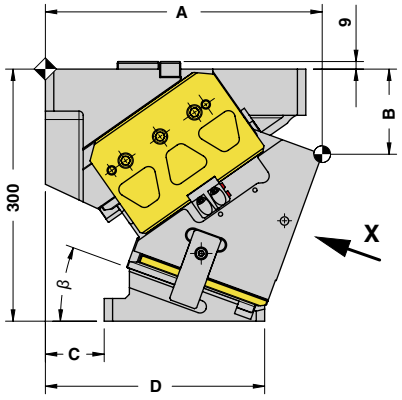


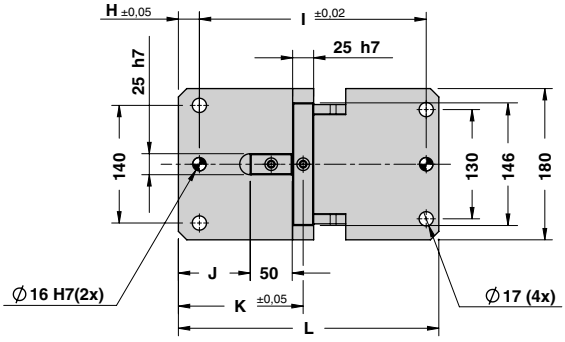

### CAM DIAGRAM

WEB

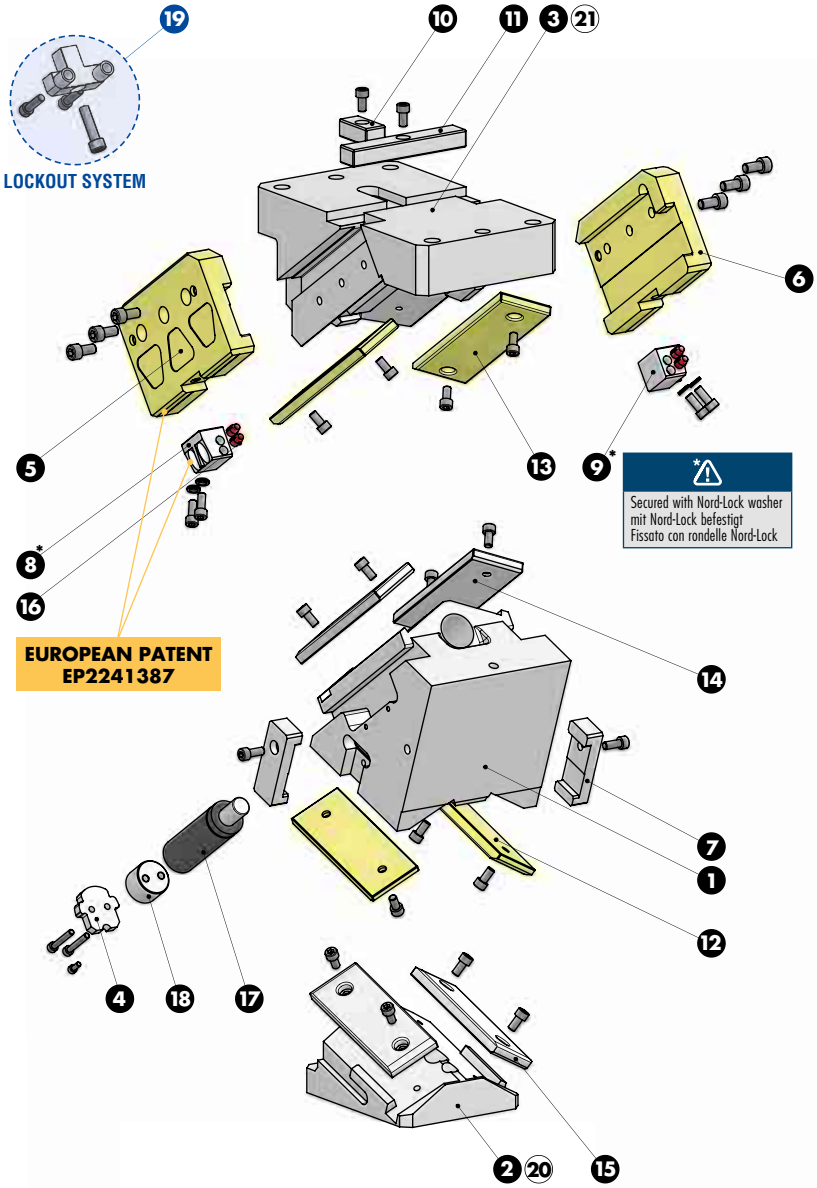



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 60° | 45,19 | 47,78 | 50 |
| 30° | 60° | 50,00 | 50,00 | 50 |
| 35° | 65° | 52,86 | 55,32 | 50 |
| 40° | 65° | 59,16 | 59,16 | 50 |
| 45° | 70° | 64,09 | 66,45 | 50 |
| 50° | 70° | 73,10 | 73,10 | 50 |
| 55° | 75° | 81,92 | 84,20 | 50 |
| 60° | 75° | 96,59 | 96,59 | 50 |
| 65° | 80° | 91,42 | 93,21 | 40 |
| 70° | 85° | 84,73 | 87,38 | 30 |
| 75° | 85° | 76,10 | 76,98 | 20 |

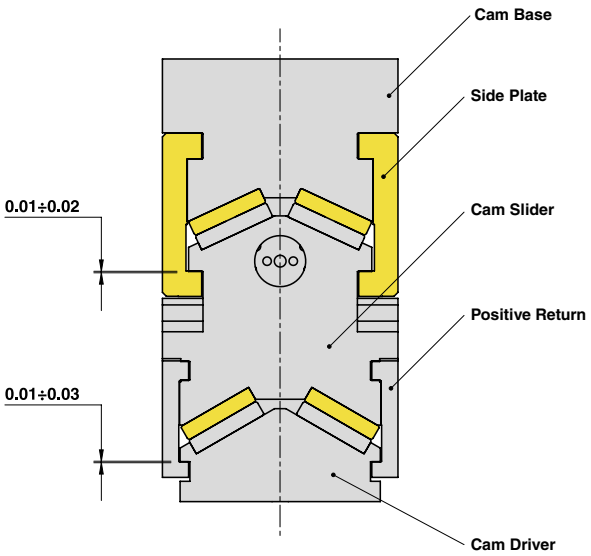


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

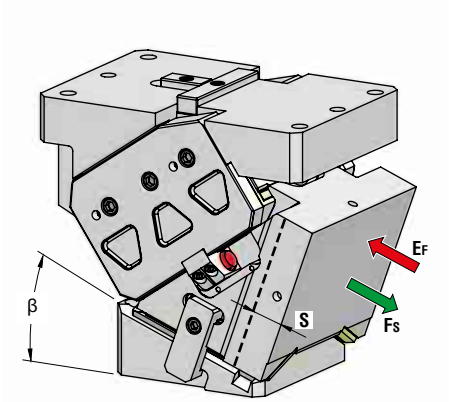
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Slide Reaction L | CK45 | 1 |
| 9 | Slide Reaction R | CK45 | 1 |
| 10 | Key | CK45 | 1 |
| 11 | Key | CK45 | 1 |
| 12 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 13 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 14 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 15 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 16 | Elastomer Cap | Elastomer 92SH | 4 |
| 17 | Gas Spring | - | 1 |
| 18 | Spring Spacer | CK45 | 1 |
| 19 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 20 | Cam Driver Fixing Screws M16x55 DIN 912 | - | 4 |
| 21 | Cam Base Fixing Screws M16x65 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV220.00 | 0° | 32,14 | 635 | 18,8 |
| CHV220.05 | 5° | 35,49 | 648 | 19,3 |
| CHV220.10 | 10° | 35,90 | 661 | 20,1 |
| CHV220.15 | 15° | 39,65 | 674 | 20,9 |
| CHV220.20 | 20° | 43,59 | 687 | 21,8 |
| CHV220.25 | 25° | 45,19 | 700 | 22,7 |
| CHV220.30 | 30° | 50 | 714 | 24,1 |
| CHV220.35 | 35° | 52,86 | 727 | 24,8 |
| CHV220.40 | 40° | 59,16 | 727 | 26,8 |
| CHV220.45 | 45° | 64,09 | 728 | 27,5 |
| CHV220.50 | 50° | 73,10 | 729 | 30,4 |
| CHV220.55 | 55° | 81,92 | 729 | 31,1 |
| CHV220.60 | 60° | 96,59 | 730 | 35,3 |
| CHV220.65 | 65° | 91,42 | 730 | 37,1 |
| CHV220.70 | 70° | 100,78 | 731 | 43,9 |
| CHV220.75 | 75° | 95,13 | 732 | 44,5 |

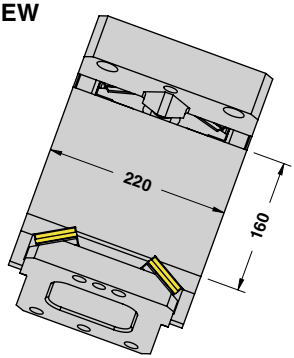
15 | ORDER EXAMPLE

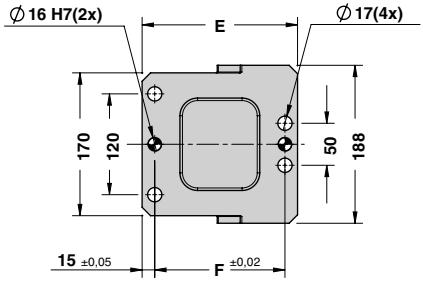
| Art. | Work Angle = 5° |
|---|---|
| CHV220 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K |
| CHV220.00 | 0° | 308 | 60 | 80 | 295 | 215 | 155 | 25 | 280 | 64 | 127 | 320 |
| CHV220.05 | 5° | 317,63 | 64,37 | 80 | 290 | 210 | 155 | 25 | 280 | 71,5 | 134,5 | 320 |
| CHV220.10 | 10° | 323,81 | 89,28 | 80 | 280 | 200 | 155 | 25 | 280 | 79 | 142 | 320 |
| CHV220.15 | 15° | 331,70 | 94,96 | 80 | 270 | 190 | 155 | 25 | 280 | 88 | 151 | 320 |
| CHV220.20 | 20° | 337,80 | 106,02 | 80 | 265 | 185 | 155 | 25 | 280 | 95,5 | 158,5 | 320 |
| CHV220.25 | 25° | 345,05 | 112,89 | 60 | 255 | 195 | 150 | 15 | 330 | 104,5 | 167,5 | 360 |
| CHV220.30 | 30° | 357,11 | 116,73 | 60 | 250 | 190 | 150 | 15 | 330 | 112 | 175 | 360 |
| CHV220.35 | 35° | 362,94 | 132,76 | 60 | 245 | 185 | 150 | 15 | 330 | 119,5 | 182,5 | 360 |
| CHV220.40 | 40° | 373,16 | 142,98 | 60 | 240 | 180 | 150 | 15 | 330 | 127 | 190 | 360 |
| CHV220.45 | 45° | 348,64 | 154,39 | 45 | 205 | 160 | 130 | 15 | 335 | 98 | 161 | 365 |
| CHV220.50 | 50° | 355,42 | 170,24 | 45 | 205 | 160 | 130 | 15 | 335 | 104 | 167 | 365 |
| CHV220.55 | 55° | 361,67 | 186,67 | 45 | 206 | 161 | 130 | 15 | 335 | 89,5 | 152,5 | 365 |
| CHV220.60 | 60° | 371,66 | 201,11 | 45 | 204 | 159 | 130 | 15 | 335 | 96,5 | 159,5 | 365 |
| CHV220.65 | 65° | 367,84 | 213,13 | 45 | 206 | 161 | 130 | 15 | 335 | 96,5 | 159,5 | 365 |
| CHV220.70 | 70° | 372,05 | 220,55 | 45 | 208 | 163 | 130 | 15 | 335 | 96,5 | 159,5 | 365 |
| CHV220.75 | 75° | 352,07 | 246,93 | 35 | 180 | 145 | 115 | 15 | 335 | 96,5 | 159,5 | 365 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

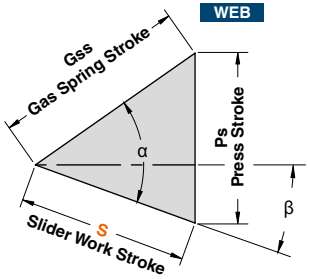
### X VIEW

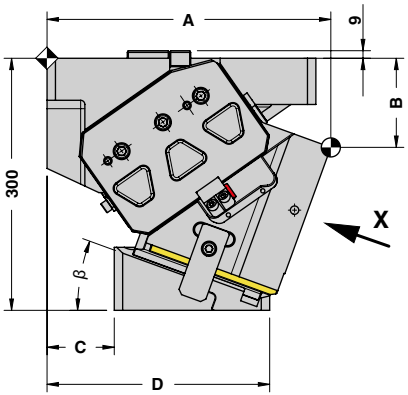


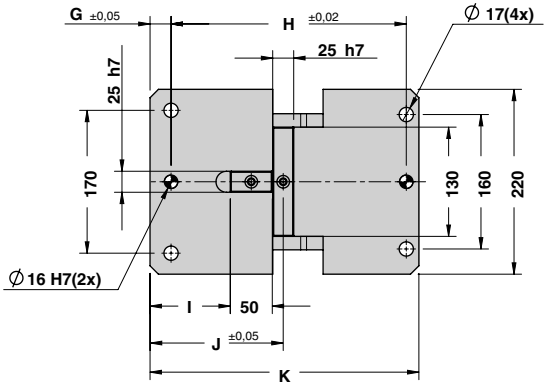

### CAM DIAGRAM

WEB

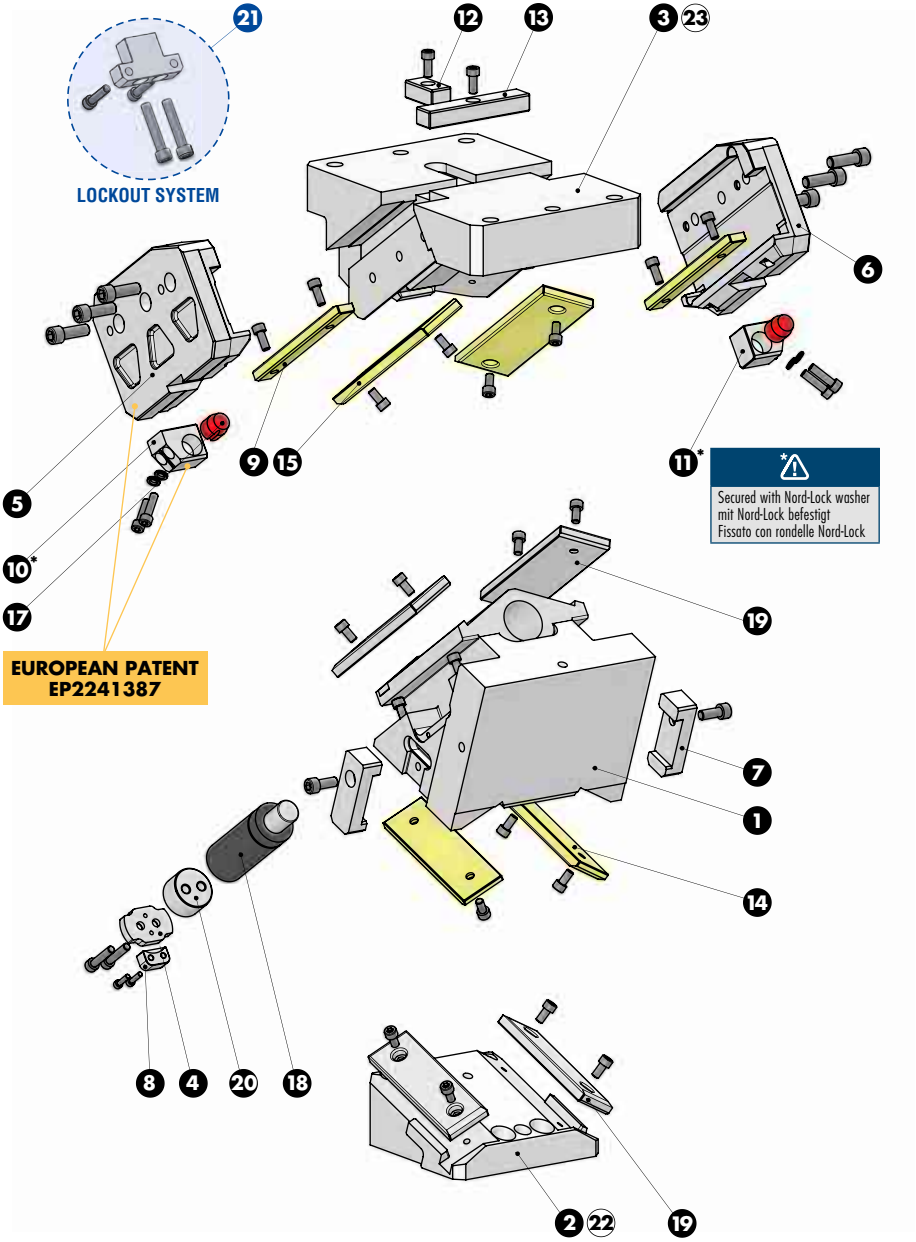



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 60° | 45,19 | 47,78 | 50 |
| 30° | 60° | 50,00 | 50,00 | 50 |
| 35° | 65° | 52,86 | 55,32 | 50 |
| 40° | 65° | 59,16 | 59,16 | 50 |
| 45° | 70° | 64,09 | 66,45 | 50 |
| 50° | 70° | 73,10 | 73,10 | 50 |
| 55° | 75° | 81,92 | 84,20 | 50 |
| 60° | 75° | 96,59 | 96,59 | 50 |
| 65° | 80° | 91,42 | 93,21 | 40 |
| 70° | 80° | 100,78 | 100,78 | 35 |
| 75° | 85° | 95,13 | 96,23 | 25 |

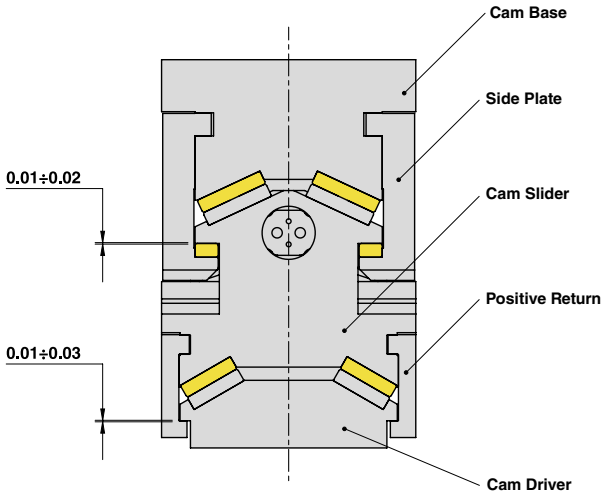


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

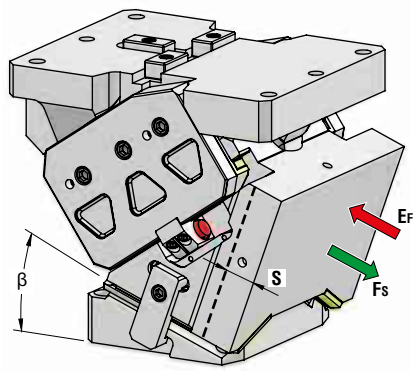
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate L | 42CrMo4 | 1 |
| 6 | Side Plate R | 42CrMo4 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Safety Plate | CK45 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Slide Reaction L | CK45 | 1 |
| 11 | Slide Reaction R | CK45 | 1 |
| 12 | Key | CK45 | 1 |
| 13 | Key | CK45 | 1 |
| 14 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 15 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 16 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 17 | Elastomer Cap | Elastomer 92SH | 2 |
| 18 | Gas Spring | - | 1 |
| 19 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 20 | Spring Spacer | CK45 | 1 |
| 21 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 22 | Cam Driver Fixing Screws M16x55 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M16x65 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV260.00 | 0° | 32,14 | 536 | 30,5 |
| CHV260.05 | 5° | 35,49 | 564 | 30,8 |
| CHV260.10 | 10° | 35,90 | 593 | 31,3 |
| CHV260.15 | 15° | 39,65 | 621 | 31,7 |
| CHV260.20 | 20° | 43,59 | 650 | 32,4 |
| CHV260.25 | 25° | 45,19 | 673 | 32,7 |
| CHV260.30 | 30° | 50 | 690 | 33,7 |
| CHV260.35 | 35° | 52,86 | 708 | 33,9 |
| CHV260.40 | 40° | 59,16 | 737 | 35,2 |
| CHV260.45 | 45° | 64,09 | 744 | 35,2 |
| CHV260.50 | 50° | 73,10 | 747 | 37,0 |
| CHV260.55 | 55° | 81,92 | 751 | 36,9 |
| CHV260.60 | 60° | 96,59 | 755 | 39,5 |
| CHV260.65 | 65° | 91,42 | 759 | 40,7 |
| CHV260.70 | 70° | 100,78 | 763 | 45,7 |
| CHV260.75 | 75° | 95,13 | 767 | 45,3 |

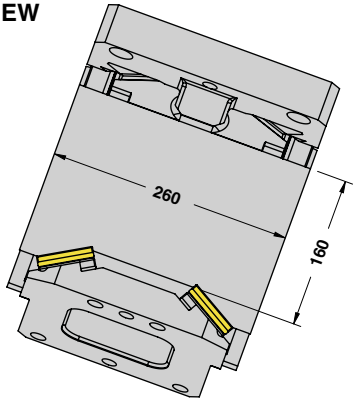
15 ORDER EXAMPLE

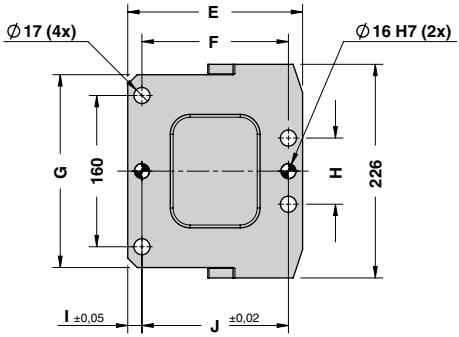
| Art. | Work Angle = 5° |
|---|---|
| CHV260 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| CHV260.00 | 0° | 308 | 60 | 80 | 295 | 215 | 155 | 204 | 70 | 15 | 155 | 25 | 280 | 63,5 | 50 | 127 | 320 |
| CHV260.05 | 5° | 317,63 | 64,37 | 80 | 290 | 210 | 155 | 204 | 90 | 15 | 155 | 25 | 280 | 70,5 | 50 | 134 | 320 |
| CHV260.10 | 10° | 323,81 | 89,28 | 80 | 280 | 200 | 155 | 204 | 70 | 15 | 155 | 25 | 280 | 78,5 | 50 | 142 | 320 |
| CHV260.15 | 15° | 331,70 | 94,96 | 80 | 270 | 190 | 155 | 204 | 70 | 15 | 155 | 25 | 280 | 76 | 50 | 151 | 320 |
| CHV260.20 | 20° | 337,80 | 106,02 | 80 | 265 | 185 | 155 | 204 | 70 | 15 | 155 | 25 | 280 | 76 | 50 | 151 | 320 |
| CHV260.25 | 25° | 345,05 | 112,89 | 60 | 255 | 195 | 150 | 204 | 70 | 15 | 150 | 15 | 330 | 100 | 50 | 167,5 | 360 |
| CHV260.30 | 30° | 357,11 | 116,73 | 60 | 250 | 190 | 150 | 204 | 70 | 15 | 150 | 15 | 330 | 105 | 50 | 175 | 360 |
| CHV260.35 | 35° | 362,94 | 132,76 | 60 | 245 | 185 | 150 | 204 | 70 | 15 | 150 | 15 | 330 | 115 | 50 | 182,5 | 360 |
| CHV260.40 | 40° | 373,16 | 142,98 | 60 | 240 | 180 | 150 | 204 | 70 | 15 | 150 | 15 | 330 | 120 | 50 | 190 | 360 |
| CHV260.45 | 45° | 348,64 | 154,39 | 45 | 205 | 160 | 130 | 204 | 70 | 15 | 130 | 15 | 335 | 90 | 50 | 161 | 365 |
| CHV260.50 | 50° | 355,42 | 170,24 | 45 | 205 | 160 | 130 | 204 | 70 | 15 | 130 | 15 | 335 | 100 | 50 | 167 | 365 |
| CHV260.55 | 55° | 361,67 | 186,67 | 45 | 215 | 170 | 130 | 204 | 70 | 15 | 130 | 15 | 335 | 85 | 50 | 152,5 | 365 |
| CHV260.60 | 60° | 371,66 | 201,11 | 45 | 205 | 160 | 130 | 204 | 70 | 15 | 130 | 15 | 335 | 90 | 50 | 159,5 | 365 |
| CHV260.65 | 65° | 367,84 | 213,13 | 45 | 211 | 166 | 120 | 204 | 70 | 20 | 120 | 15 | 335 | 90 | 50 | 159,5 | 365 |
| CHV260.70 | 70° | 372,05 | 220,55 | 45 | 210 | 165 | 130 | 226 | 90 | 15 | 130 | 15 | 335 | 90 | 50 | 159,5 | 365 |
| CHV260.75 | 75° | 352,07 | 246,93 | 35 | 185 | 150 | 115 | 226 | 90 | 15 | 115 | 15 | 335 | 90 | 50 | 159,5 | 365 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

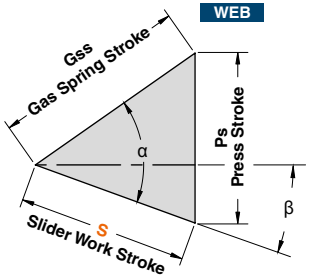
### X VIEW

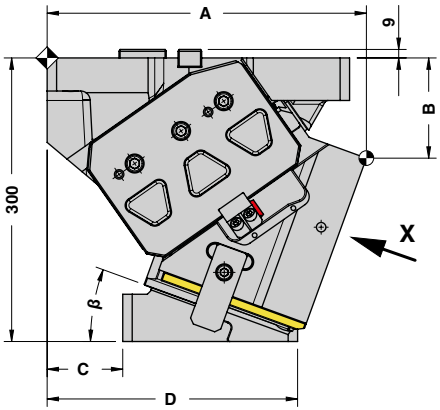


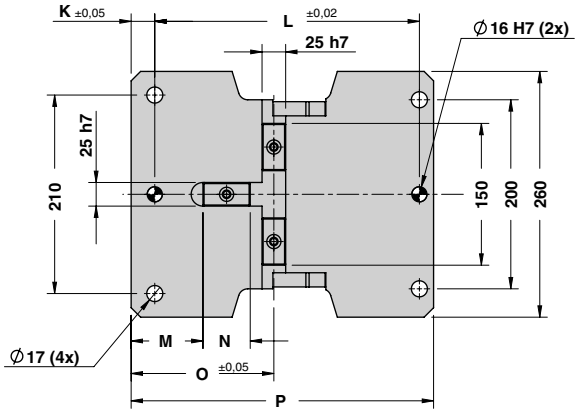

### CAM DIAGRAM

WEB

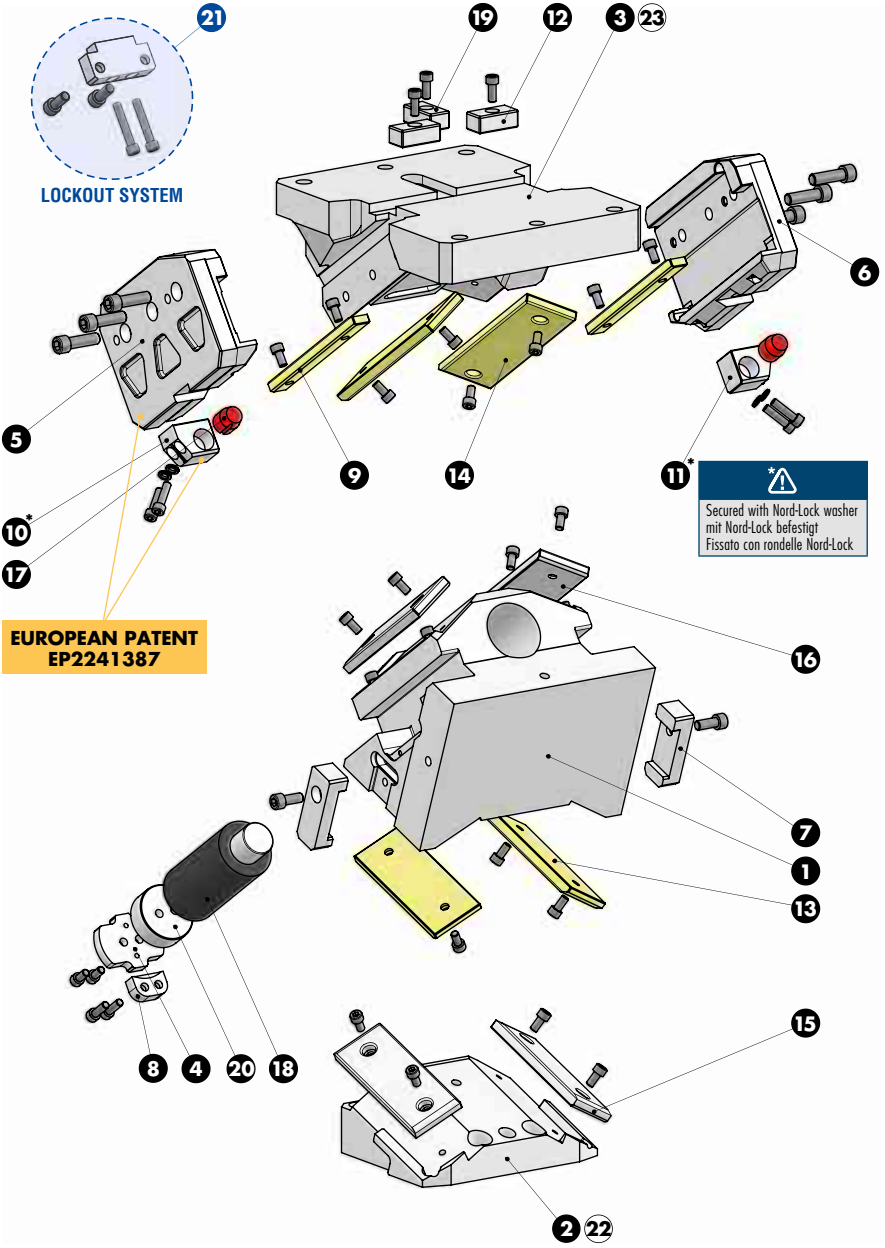



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 55° | 35,90 | 41,59 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 55° | 43,59 | 43,59 | 50 |
| 25° | 60° | 45,19 | 47,78 | 50 |
| 30° | 60° | 50,00 | 50,00 | 50 |
| 35° | 65° | 52,86 | 55,32 | 50 |
| 40° | 65° | 59,16 | 59,16 | 50 |
| 45° | 70° | 64,09 | 66,45 | 50 |
| 50° | 70° | 73,10 | 73,10 | 50 |
| 55° | 75° | 81,92 | 84,20 | 50 |
| 60° | 75° | 96,59 | 96,59 | 50 |
| 65° | 80° | 91,42 | 93,21 | 40 |
| 70° | 80° | 100,78 | 100,78 | 35 |
| 75° | 85° | 95,13 | 96,23 | 25 |

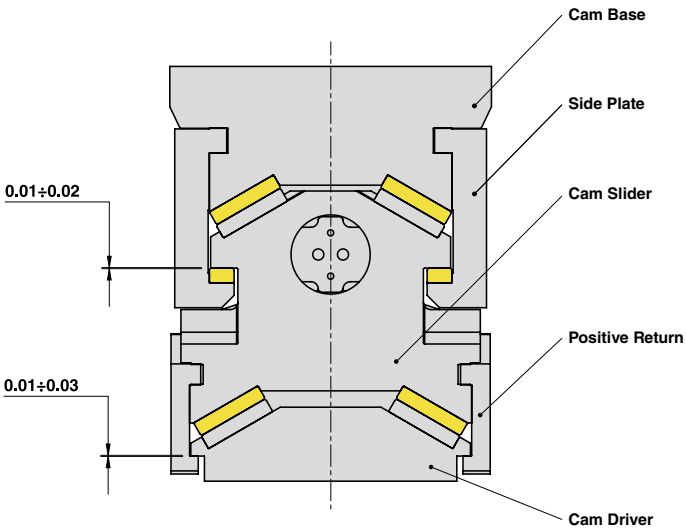


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

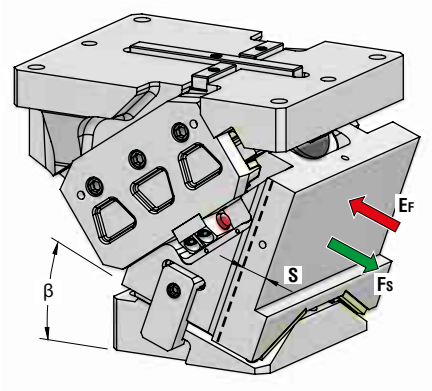
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate L | 42CrMo4 | 1 |
| 6 | Side Plate R | 42CrMo4 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Safety Plate | CK45 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Slide Reaction L | CK45 | 1 |
| 11 | Slide Reaction R | CK45 | 1 |
| 12 | Key | CK45 | 2 |
| 13 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 14 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 15 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 16 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 17 | Elastomer Cap | Elastomer 92SH | 2 |
| 18 | Gas Spring | - | 1 |
| 19 | Key | CK45 | 1 |
| 20 | Spring Spacer (not included for CHV260.15-20-55-65) | CK45 | 1 |
| 21 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 22 | Cam Driver Fixing Screws M16x55 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M16x65 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV330.00 | 0° | 37,28 | 1006 | 63,9 |
| CHV330.05 | 5° | 41,17 | 1005 | 64,6 |
| CHV330.10 | 10° | 41,64 | 1005 | 66,6 |
| CHV330.15 | 15° | 46 | 1005 | 67,8 |
| CHV330.20 | 20° | 50,56 | 1007 | 69,5 |
| CHV330.25 | 25° | 52,42 | 1009 | 71,2 |
| CHV330.30 | 30° | 58 | 1010 | 73,7 |
| CHV330.35 | 35° | 61,32 | 1012 | 75,1 |
| CHV330.40 | 40° | 68,62 | 1013 | 78,5 |
| CHV330.45 | 45° | 74,34 | 1014 | 79,6 |
| CHV330.50 | 50° | 84,79 | 1015 | 84,4 |
| CHV330.55 | 55° | 95,02 | 1016 | 85,1 |
| CHV330.60 | 60° | 112,05 | 1017 | 91,8 |
| CHV330.65 | 65° | 102,85 | 1018 | 94,8 |
| CHV330.70 | 70° | 127,09 | 1019 | 94,9 |
| CHV330.75 | 75° | 114,15 | 1020 | 95,9 |

15 ORDER EXAMPLE

| Art. | Work Angle = 5° |
|---|---|
| CHV330 | 05 |

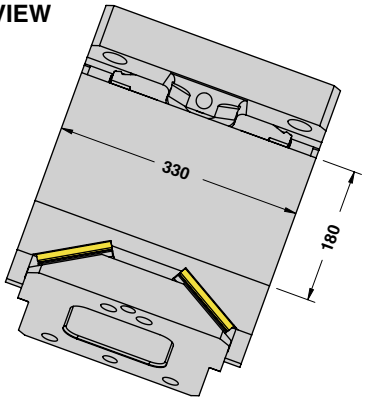
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| CHV330.00 | 0° | 403 | 75 | 130 | 410 | 280 | 185 | 254 | 170 | 60 | 285 | 205 | 365 | 72 | 209,5 | 415 |
| CHV330.05 | 5° | 410,89 | 94,30 | 130 | 398 | 268 | 185 | 254 | 170 | 50 | 285 | 205 | 365 | 82,5 | 220 | 415 |
| CHV330.10 | 10° | 418,81 | 99,28 | 130 | 384 | 254 | 185 | 254 | 170 | 50 | 285 | 205 | 365 | 93 | 230,5 | 415 |
| CHV330.15 | 15° | 426,70 | 104,96 | 130 | 385 | 255 | 185 | 254 | 170 | 50 | 285 | 205 | 365 | 103,5 | 241 | 415 |
| CHV330.20 | 20° | 434,51 | 111,32 | 130 | 375 | 245 | 185 | 254 | 170 | 50 | 285 | 205 | 365 | 94 | 251,5 | 415 |
| CHV330.25 | 25° | 417,16 | 118,36 | 80 | 339 | 259 | 145 | 254 | 170 | 50 | 285 | 175 | 365 | 104,5 | 237 | 415 |
| CHV330.30 | 30° | 424,61 | 131,06 | 80 | 330 | 250 | 145 | 254 | 170 | 50 | 285 | 175 | 365 | 95 | 247,5 | 415 |
| CHV330.35 | 35° | 427,78 | 150,13 | 80 | 317 | 237 | 145 | 254 | 170 | 50 | 285 | 175 | 365 | 104 | 256,5 | 415 |
| CHV330.40 | 40° | 438,66 | 158,34 | 80 | 312 | 232 | 145 | 254 | 170 | 50 | 285 | 175 | 365 | 98 | 265,5 | 415 |
| CHV330.45 | 45° | 395,15 | 172,88 | 30 | 255 | 225 | 145 | 254 | 170 | 50 | 285 | 175 | 401 | 62 | 224,5 | 450 |
| CHV330.50 | 50° | 412,72 | 188,31 | 30 | 252 | 222 | 145 | 254 | 170 | 50 | 285 | 175 | 401 | 56 | 233,5 | 450 |
| CHV330.55 | 55° | 423,22 | 212,08 | 30 | 256 | 226 | 145 | 254 | 170 | 50 | 285 | 175 | 401 | 63,4 | 240,9 | 450 |
| CHV330.60 | 60° | 433,59 | 232,11 | 30 | 258 | 228 | 145 | 254 | 170 | 50 | 285 | 175 | 401 | 71 | 248,5 | 450 |
| CHV330.65 | 65° | 434,62 | 242,64 | 0 | 242 | 242 | 140 | 330 | 293 | 293 | 330 | 175 | 401 | 71 | 248,5 | 450 |
| CHV330.70 | 70° | 429,87 | 254,52 | 0 | 232 | 232 | 125 | 330 | 293 | 293 | 330 | 175 | 401 | 71 | 248,5 | 450 |
| CHV330.75 | 75° | 418,49 | 262,53 | 0 | 221 | 221 | 105 | 330 | 293 | 293 | 330 | 160 | 401 | 56 | 233,5 | 450 |

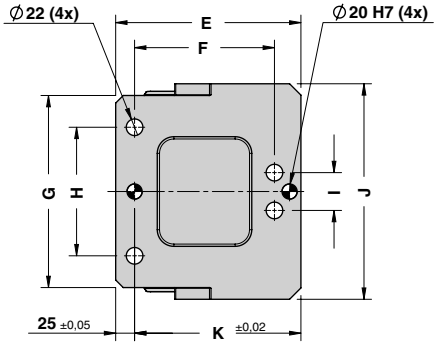




## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

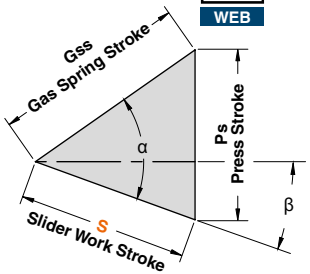
### X VIEW

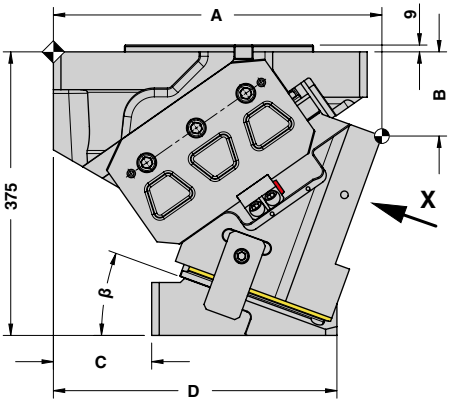


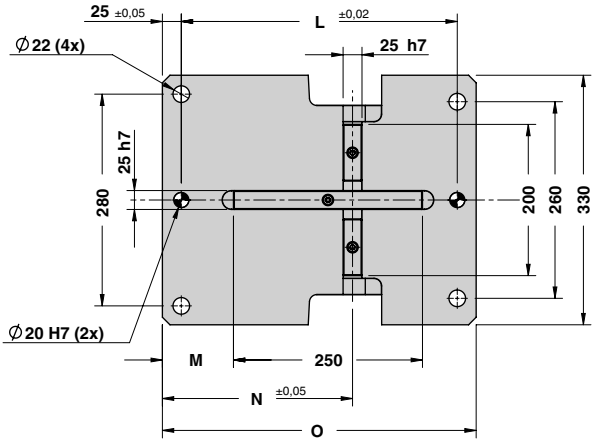

### CAM DIAGRAM

WEB

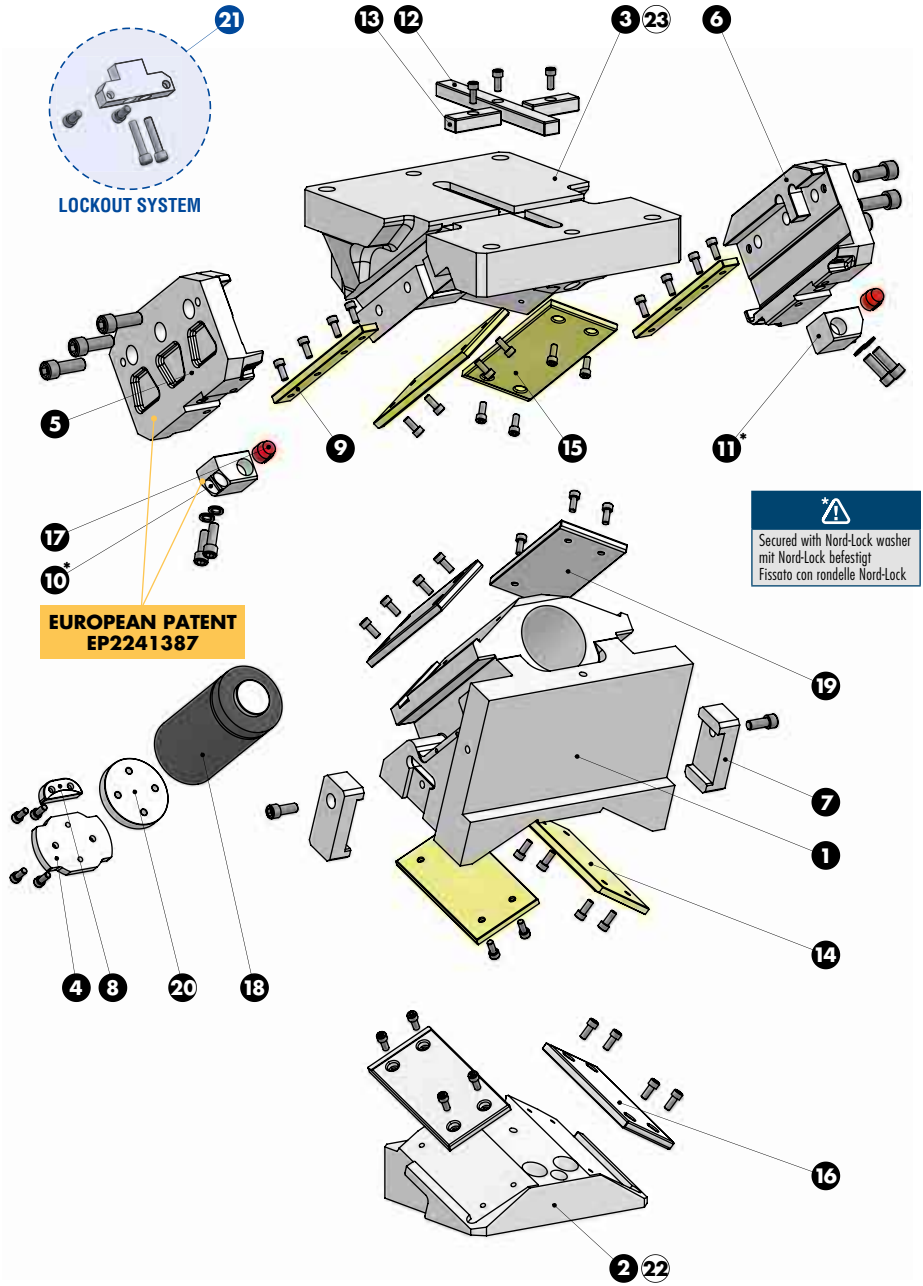



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 37,28 | 44,43 | 58 |
| 5° | 50° | 41,17 | 44,60 | 58 |
| 10° | 55° | 41,64 | 48,24 | 58 |
| 15° | 55° | 46,00 | 49,19 | 58 |
| 20° | 55° | 50,56 | 50,56 | 58 |
| 25° | 60° | 52,42 | 55,42 | 58 |
| 30° | 60° | 58,00 | 58,00 | 58 |
| 35° | 65° | 61,32 | 64,17 | 58 |
| 40° | 65° | 68,62 | 68,62 | 58 |
| 45° | 70° | 74,34 | 77,08 | 58 |
| 50° | 70° | 84,79 | 84,79 | 58 |
| 55° | 75° | 95,02 | 97,67 | 58 |
| 60° | 75° | 112,05 | 112,05 | 58 |
| 65° | 80° | 102,85 | 104,86 | 45 |
| 70° | 85° | 127,09 | 131,07 | 45 |
| 75° | 85° | 114,15 | 115,47 | 30 |

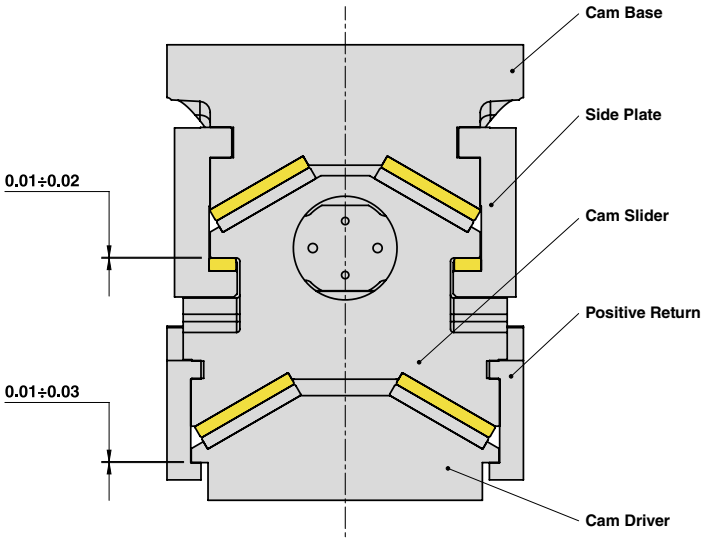


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

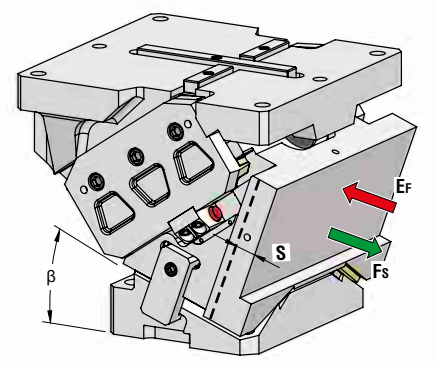
### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate L | 42CrMo4 | 1 |
| 6 | Side Plate R | 42CrMo4 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Safety Plate | CK45 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Slide Reaction L | CK45 | 1 |
| 11 | Slide Reaction R | CK45 | 1 |
| 12 | Key | CK45 | 1 |
| 13 | Key | CK45 | 2 |
| 14 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 15 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 16 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 17 | Elastomer Cap | Elastomer 92SH | 2 |
| 18 | Gas Spring | - | 1 |
| 19 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 20 | Spring Spacer (included only for CHV330.20 and CHV330.35) | CK45 | 1 |
| 21 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 22 | Cam Driver Fixing Screws M20x70 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M20x70 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Gas Spring |
| CHV400.00 | 0° | 37,28 | 1055 | 63,9 |
| CHV400.05 | 5° | 41,17 | 1055 | 64,6 |
| CHV400.10 | 10° | 41,64 | 1054 | 66,6 |
| CHV400.15 | 15° | 46 | 1054 | 67,8 |
| CHV400.20 | 20° | 50,56 | 1054 | 69,5 |
| CHV400.25 | 25° | 52,42 | 1054 | 71,2 |
| CHV400.30 | 30° | 58 | 1054 | 73,7 |
| CHV400.35 | 35° | 61,32 | 1054 | 75,1 |
| CHV400.40 | 40° | 68,62 | 1054 | 78,5 |
| CHV400.45 | 45° | 74,34 | 1054 | 79,6 |
| CHV400.50 | 50° | 84,79 | 1053 | 84,4 |
| CHV400.55 | 55° | 95,02 | 1053 | 85,1 |
| CHV400.60 | 60° | 112,05 | 1053 | 91,8 |
| CHV400.65 | 65° | 102,85 | 1053 | 94,8 |
| CHV400.70 | 70° | 127,09 | 1053 | 94,9 |
| CHV400.75 | 75° | 114,15 | 1052 | 95,9 |

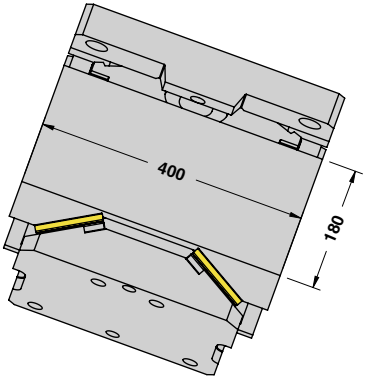
20 ORDER EXAMPLE

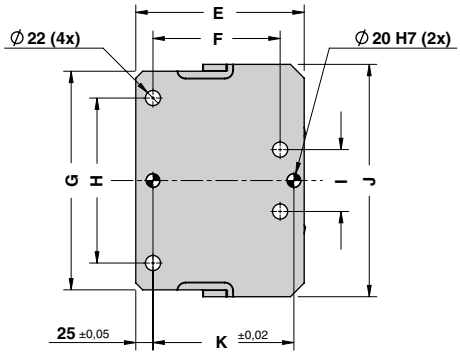
| Art. | Work Angle = 5° |
|---|---|
| CHV400 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| CHV400.00 | 0° | 403 | 75 | 130 | 410 | 280 | 185 | 318 | 240 | 90 | 338 | 205 | 365 | 72 | 209,5 | 415 |
| CHV400.05 | 5° | 410,89 | 94,30 | 130 | 410 | 280 | 185 | 318 | 240 | 90 | 338 | 205 | 365 | 82,5 | 220 | 415 |
| CHV400.10 | 10° | 418,81 | 99,28 | 130 | 385 | 255 | 185 | 318 | 240 | 90 | 338 | 205 | 365 | 93 | 230,5 | 415 |
| CHV400.15 | 15° | 426,70 | 104,96 | 130 | 385 | 255 | 185 | 318 | 240 | 90 | 338 | 205 | 365 | 103,5 | 241 | 415 |
| CHV400.20 | 20° | 434,51 | 111,32 | 130 | 375 | 245 | 185 | 318 | 240 | 90 | 338 | 205 | 365 | 94 | 251,5 | 415 |
| CHV400.25 | 25° | 417,16 | 118,36 | 80 | 340 | 260 | 145 | 318 | 240 | 90 | 338 | 175 | 365 | 104,5 | 237 | 415 |
| CHV400.30 | 30° | 424,61 | 131,06 | 80 | 330 | 250 | 145 | 318 | 240 | 90 | 338 | 175 | 365 | 95 | 247,5 | 415 |
| CHV400.35 | 35° | 427,78 | 150,13 | 80 | 317 | 237 | 145 | 318 | 240 | 90 | 338 | 175 | 365 | 104 | 256,5 | 415 |
| CHV400.40 | 40° | 438,66 | 158,34 | 80 | 310 | 230 | 145 | 318 | 240 | 90 | 338 | 175 | 365 | 98 | 265,5 | 415 |
| CHV400.45 | 45° | 395,15 | 172,88 | 30 | 255 | 225 | 145 | 318 | 240 | 90 | 338 | 175 | 401 | 62 | 224,5 | 450 |
| CHV400.50 | 50° | 412,72 | 188,31 | 30 | 245 | 215 | 145 | 318 | 240 | 90 | 338 | 175 | 401 | 56 | 233,5 | 450 |
| CHV400.55 | 55° | 423,22 | 212,08 | 30 | 256 | 226 | 145 | 318 | 240 | 90 | 338 | 175 | 401 | 63,4 | 240,9 | 450 |
| CHV400.60 | 60° | 433,59 | 232,11 | 30 | 260 | 230 | 145 | 318 | 240 | 90 | 338 | 175 | 401 | 71 | 248,5 | 450 |
| CHV400.65 | 65° | 434,62 | 242,64 | 0 | 242 | 242 | 140 | 400 | 363 | 363 | 400 | 175 | 401 | 71 | 248,5 | 450 |
| CHV400.70 | 70° | 429,87 | 254,52 | 0 | 226 | 226 | 125 | 400 | 363 | 363 | 400 | 175 | 401 | 71 | 248,5 | 450 |
| CHV400.75 | 75° | 418,49 | 262,53 | 0 | 214 | 214 | 105 | 400 | 363 | 363 | 400 | 160 | 401 | 56 | 233,5 | 450 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

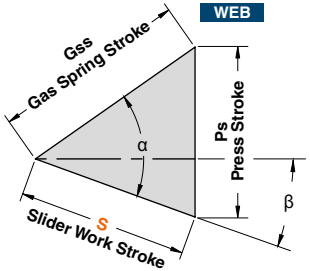
### X VIEW

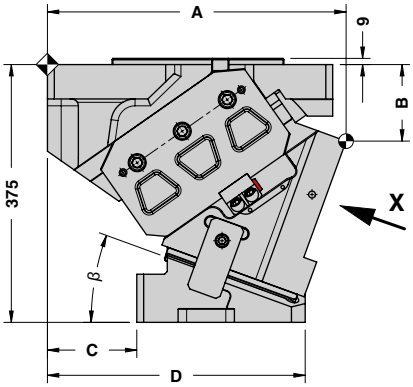


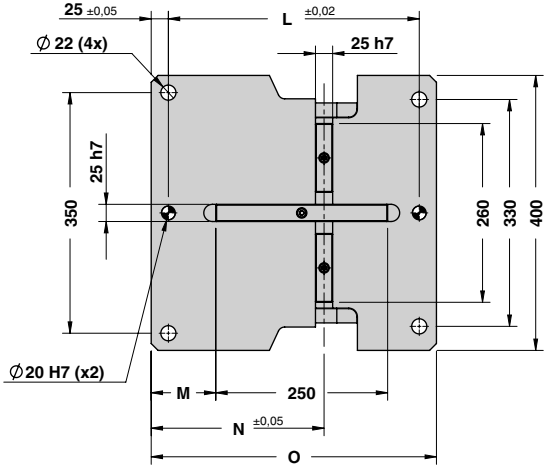

### CAM DIAGRAM

WEB

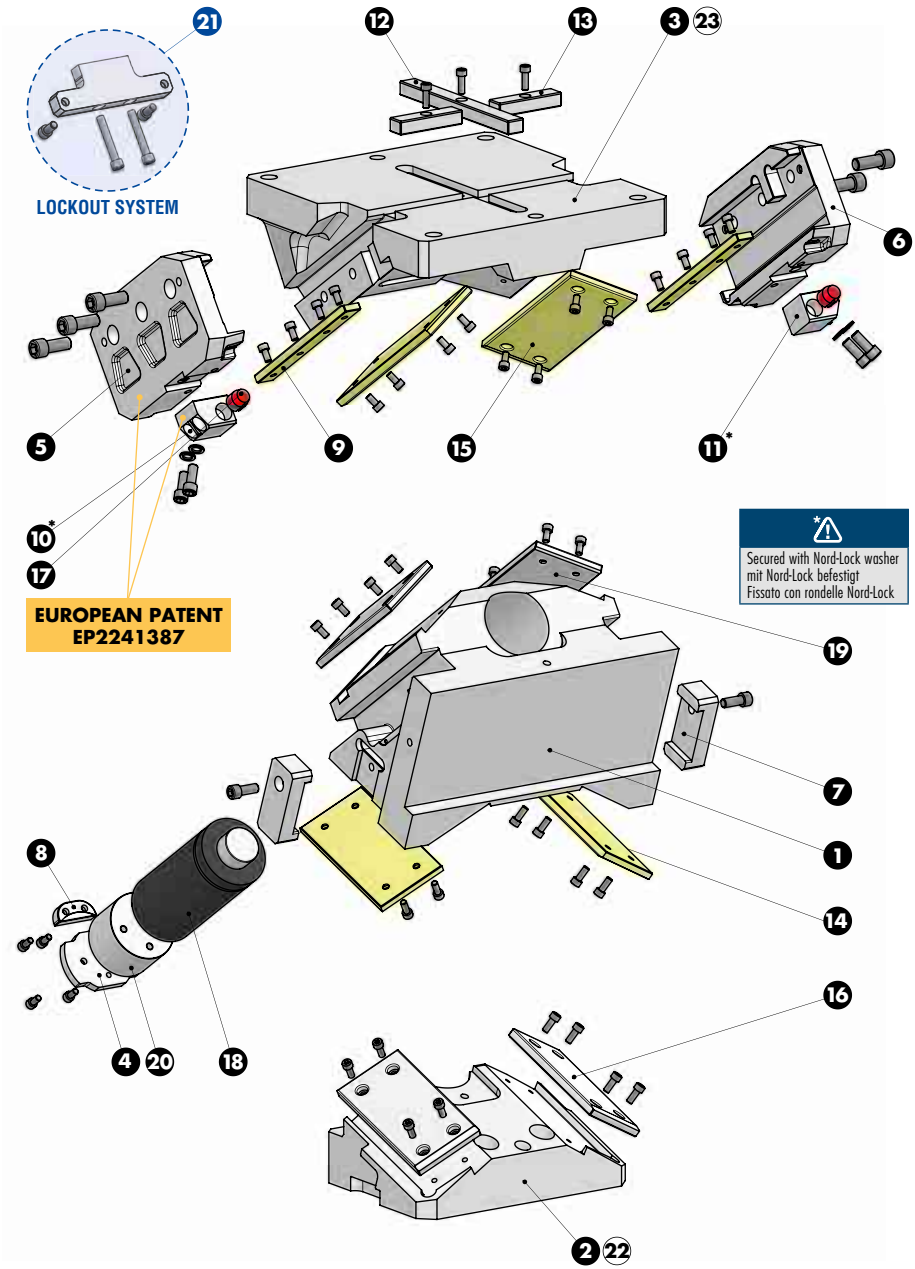



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 37,28 | 44,43 | 58 |
| 5° | 50° | 41,17 | 44,60 | 58 |
| 10° | 55° | 41,64 | 48,24 | 58 |
| 15° | 55° | 46,00 | 49,19 | 58 |
| 20° | 55° | 50,56 | 50,56 | 58 |
| 25° | 60° | 52,42 | 55,42 | 58 |
| 30° | 60° | 58,00 | 58,00 | 58 |
| 35° | 65° | 61,32 | 64,17 | 58 |
| 40° | 65° | 68,62 | 68,62 | 58 |
| 45° | 70° | 74,34 | 77,08 | 58 |
| 50° | 70° | 84,79 | 84,79 | 58 |
| 55° | 75° | 95,02 | 97,67 | 58 |
| 60° | 75° | 112,05 | 112,05 | 58 |
| 65° | 80° | 102,85 | 104,86 | 45 |
| 70° | 85° | 127,09 | 131,07 | 45 |
| 75° | 85° | 114,15 | 115,47 | 30 |

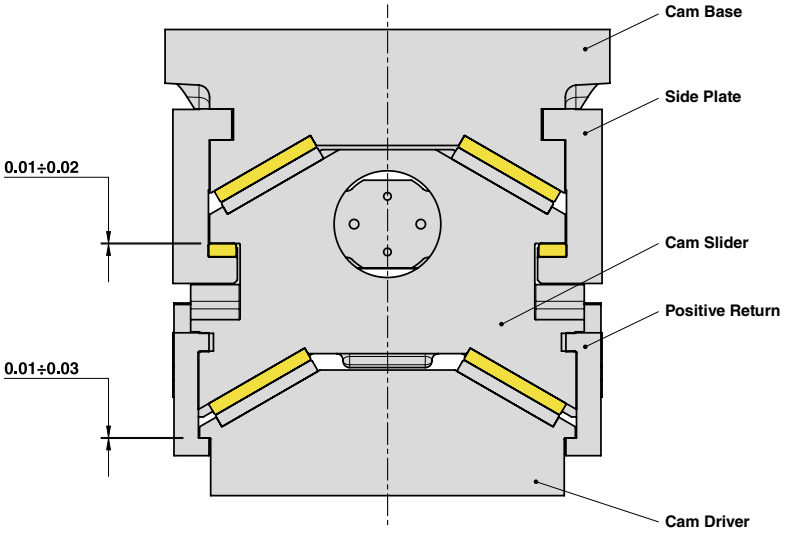


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

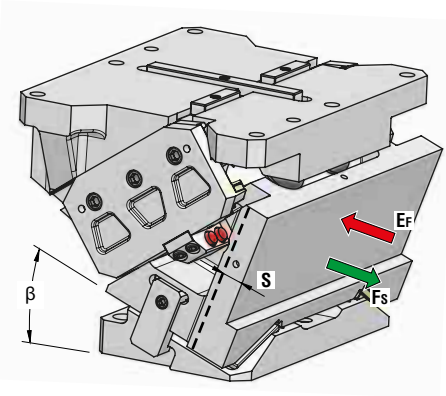
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 1 |
| 5 | Side Plate L | 42CrMo4 | 1 |
| 6 | Side Plate R | 42CrMo4 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Safety Plate | CK45 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Slide Reaction L | CK45 | 1 |
| 11 | Slide Reaction R | CK45 | 1 |
| 12 | Key | CK45 | 1 |
| 13 | Key | CK45 | 2 |
| 14 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 15 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 16 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 17 | Elastomer Cap | Elastomer 92SH | 2 |
| 18 | Gas Spring | - | 1 |
| 19 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 20 | Spring Spacer (included only for CHV400.65) | CK45 | 1 |
| 21 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 22 | Cam Driver Fixing Screws M20x70 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M20x70 DIN 912 | - | 4 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

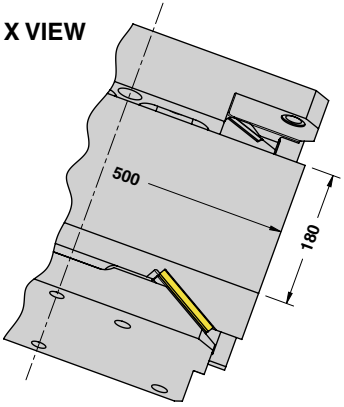
| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHV500.00 | 0° | 37,28 | 1155 | 87,0 |
| CHV500.05 | 5° | 41,17 | 1155 | 87,0 |
| CHV500.10 | 10° | 41,64 | 1155 | 85,7 |
| CHV500.15 | 15° | 46,00 | 1155 | 85,7 |
| CHV500.20 | 20° | 50,56 | 1155 | 85,7 |
| CHV500.25 | 25° | 52,42 | 1155 | 83,8 |
| CHV500.30 | 30° | 58,00 | 1155 | 83,8 |
| CHV500.35 | 35° | 61,32 | 1155 | 81,2 |
| CHV500.40 | 40° | 68,62 | 1155 | 81,2 |
| CHV500.45 | 45° | 74,34 | 1155 | 78,0 |
| CHV500.50 | 50° | 84,79 | 1155 | 78,0 |
| CHV500.55 | 55° | 95,02 | 1155 | 74,1 |
| CHV500.60 | 60° | 112,05 | 1155 | 74,1 |
| CHV500.65 | 65° | 102,85 | 1155 | 69,3 |
| CHV500.70 | 70° | 127,09 | 1155 | 64,5 |
| CHV500.75 | 75° | 114,15 | 1155 | 66,8 |

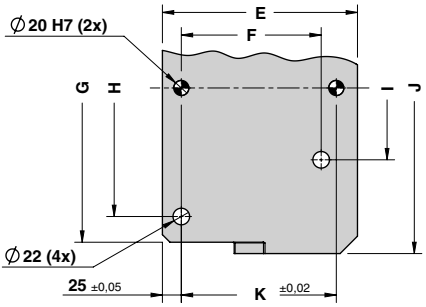
30 ORDER EXAMPLE

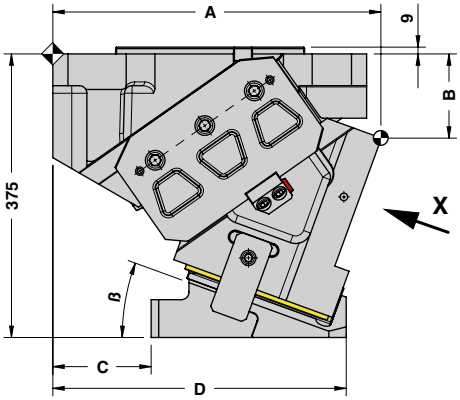
| Art. | Work Angle = 5° |
|---|---|
| CHV500 | 05 |

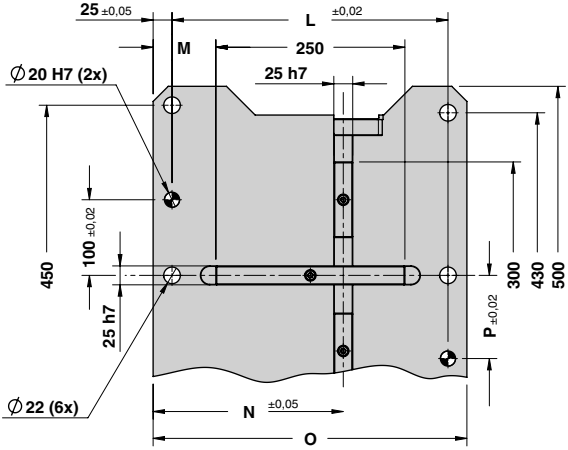
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| CHV500.00 | 0° | 403,00 | 75,00 | 130 | 410 | 280 | 185 | 408 | 340 | 190 | 438 | 205 | 365 | 83 | 209,5 | 415 | 110 |
| CHV500.05 | 5° | 410,89 | 94,30 | 130 | 410 | 280 | 185 | 408 | 340 | 190 | 438 | 205 | 365 | 83 | 220 | 415 | 110 |
| CHV500.10 | 10° | 418,81 | 99,28 | 130 | 397 | 267 | 185 | 408 | 340 | 190 | 438 | 205 | 365 | 83 | 230,5 | 415 | 110 |
| CHV500.15 | 15° | 426,70 | 104,96 | 130 | 397 | 267 | 185 | 408 | 340 | 190 | 438 | 205 | 365 | 83 | 241 | 415 | 110 |
| CHV500.20 | 20° | 434,51 | 111,32 | 130 | 388 | 258 | 185 | 408 | 340 | 190 | 438 | 205 | 365 | 83 | 251,5 | 415 | 110 |
| CHV500.25 | 25° | 417,16 | 118,36 | 80 | 350 | 270 | 145 | 408 | 340 | 190 | 438 | 175 | 365 | 83 | 237 | 415 | 110 |
| CHV500.30 | 30° | 424,61 | 131,06 | 80 | 340 | 260 | 145 | 408 | 340 | 180 | 438 | 175 | 365 | 83 | 247,5 | 415 | 170 |
| CHV500.35 | 35° | 427,78 | 150,13 | 80 | 327 | 247 | 145 | 408 | 340 | 190 | 438 | 175 | 365 | 83 | 256,5 | 415 | 110 |
| CHV500.40 | 40° | 438,66 | 158,34 | 80 | 320 | 240 | 145 | 408 | 340 | 190 | 438 | 175 | 365 | 83 | 265,5 | 415 | 110 |
| CHV500.45 | 45° | 395,15 | 172,88 | 30 | 255 | 225 | 145 | 408 | 340 | 190 | 438 | 175 | 401 | 103 | 224,5 | 455 | 110 |
| CHV500.50 | 50° | 412,72 | 188,31 | 30 | 253 | 223 | 145 | 408 | 340 | 190 | 438 | 175 | 401 | 100,5 | 233,5 | 450 | 110 |
| CHV500.55 | 55° | 423,22 | 212,08 | 30 | 262 | 232 | 145 | 408 | 340 | 190 | 438 | 175 | 401 | 100,5 | 241 | 450 | 110 |
| CHV500.60 | 60° | 433,59 | 232,11 | 30 | 259 | 229 | 145 | 408 | 340 | 190 | 438 | 175 | 401 | 100,5 | 248,5 | 450 | 110 |
| CHV500.65 | 65° | 434,62 | 242,64 | 0 | 250 | 250 | 140 | 500 | 463 | 463 | 500 | 175 | 401 | 100,5 | 248,5 | 450 | 110 |
| CHV500.70 | 70° | 429,87 | 254,52 | 0 | 228 | 228 | 125 | 500 | 463 | 463 | 500 | 175 | 401 | 100,5 | 248,5 | 450 | 110 |
| CHV500.75 | 75° | 418,49 | 262,53 | 0 | 213 | 213 | 105 | 500 | 463 | 463 | 500 | 160 | 401 | 100,5 | 233,5 | 450 | 110 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



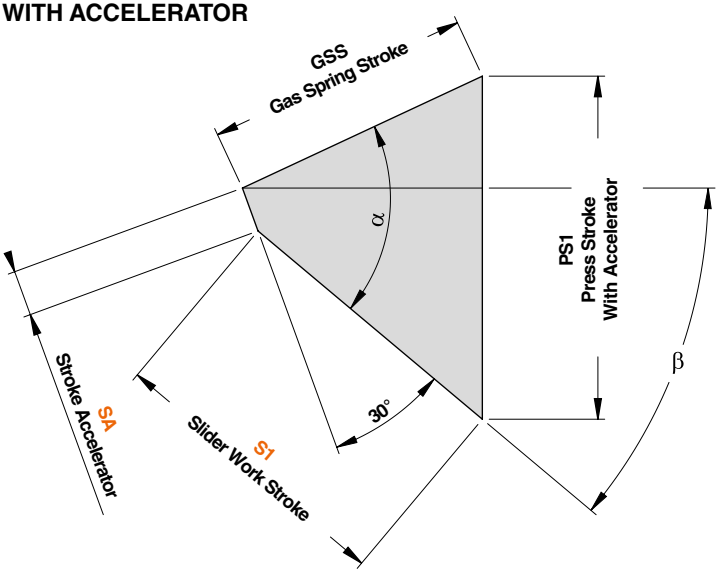



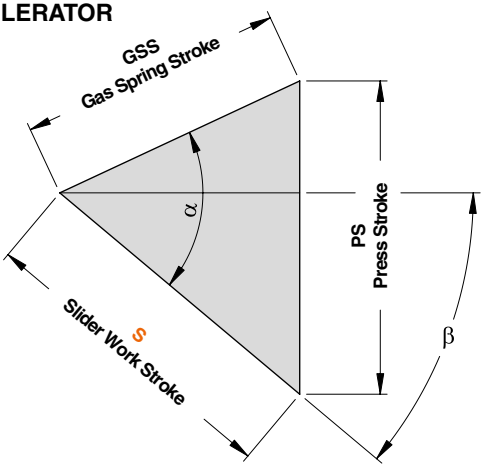
## CAM DIAGRAM WITH ACCELERATOR

WEB




## CAM DIAGRAM WITHOUT ACCELERATOR

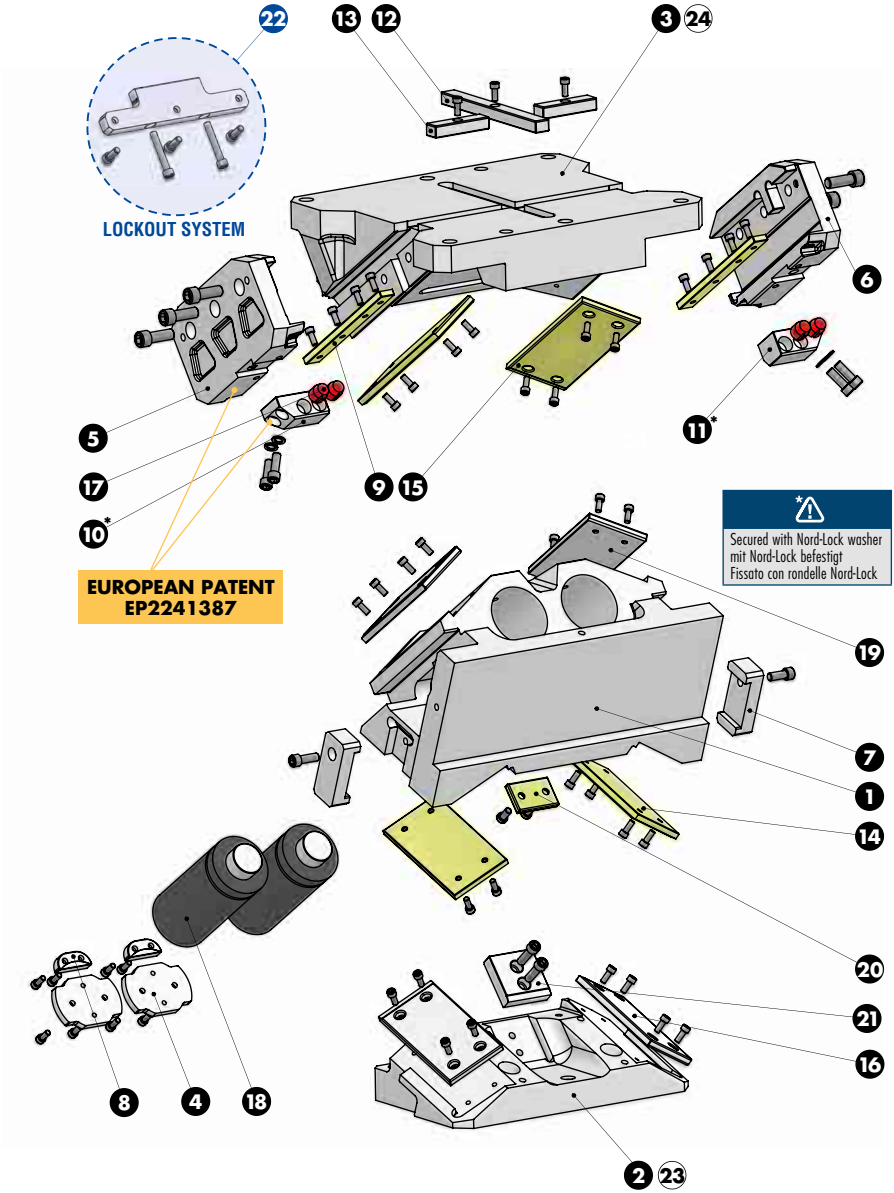
WEB



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

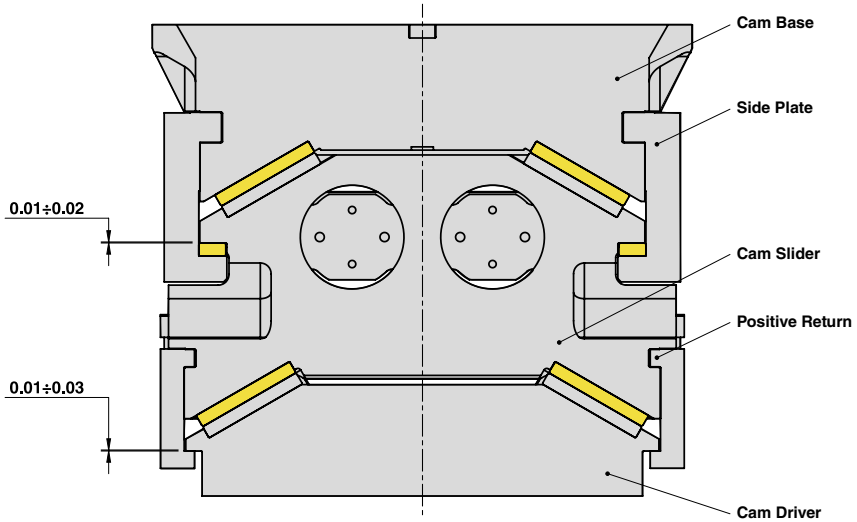
| OMCR CODE | Work Angle | Inner Angle | Slider Work Stroke (mm) | | Press Stroke (mm) | | Stroke Accelerator | Gas Spring Stroke (mm) |
|---|---|---|---|---|---|---|---|---|
| | β | α | S | S1 | Ps | Ps1 | SA | Gss |
| **CHV500.00** | 0° | 50° | 37,28 | 28,62 | 44,43 | 49,43 | 10 | 58 |
| **CHV500.05** | 5° | 50° | 41,17 | 32,94 | 44,60 | 49,62 | 10 | 58 |
| **CHV500.10** | 10° | 55° | 41,64 | 33,87 | 48,24 | 53,32 | 10 | 58 |
| **CHV500.15** | 15° | 55° | 46,00 | 38,68 | 49,19 | 54,36 | 10 | 58 |
| **CHV500.20** | 20° | 55° | 50,56 | 43,71 | 50,56 | 55,89 | 10 | 58 |
| **CHV500.25** | 25° | 60° | 52,42 | 46,09 | 55,42 | 60,94 | 10 | 58 |
| **CHV500.30** | 30° | 60° | 58,00 | 52,22 | 58,00 | 63,78 | 10 | 58 |
| **CHV500.35** | 35° | 65° | 61,32 | 56,16 | 64,17 | 70,27 | 10 | 58 |
| **CHV500.40** | 40° | 65° | 68,62 | 64,15 | 68,62 | 75,15 | 10 | 58 |
| **CHV500.45** | 45° | 70° | 74,34 | 70,68 | 77,08 | 84,15 | 10 | 58 |
| **CHV500.50** | 50° | 70° | 84,79 | 82,09 | 84,79 | 92,57 | 10 | 58 |
| **CHV500.55** | 55° | 75° | 95,02 | - | 97,67 | - | - | 58 |
| **CHV500.60** | 60° | 75° | 112,05 | - | 112,05 | - | - | 58 |
| **CHV500.65** | 65° | 80° | 102,85 | - | 104,86 | - | - | 45 |
| **CHV500.70** | 70° | 85° | 127,09 | - | 131,07 | - | - | 45 |
| **CHV500.75** | 75° | 85° | 114,15 | - | 115,47 | - | - | 30 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

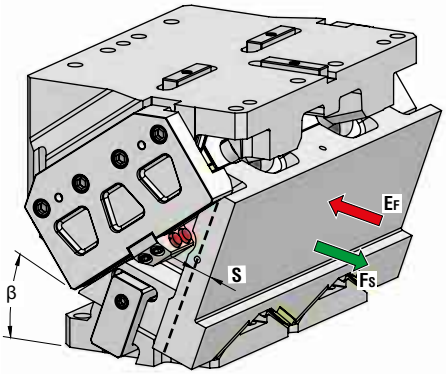
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 2 |
| 5 | Side Plate L | 42CrMo4 | 1 |
| 6 | Side Plate R | 42CrMo4 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Safety Plate | CK45 | 2 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 10 | Slide Reaction L | CK45 | 1 |
| 11 | Slide Reaction R | CK45 | 1 |
| 12 | Key | CK45 | 1 |
| 13 | Key | CK45 | 2 |
| 14 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 15 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 16 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 17 | Elastomer Cap | Elastomer 92SH | 4 |
| 18 | Gas Spring | - | 2 |
| 19 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 20 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 21 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 1 |
| 22 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 23 | Cam Driver Fixing Screws M20x70 DIN 912 | - | 4 |
| 24 | Cam Base Fixing Screws M20x70 DIN 912 | - | 6 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

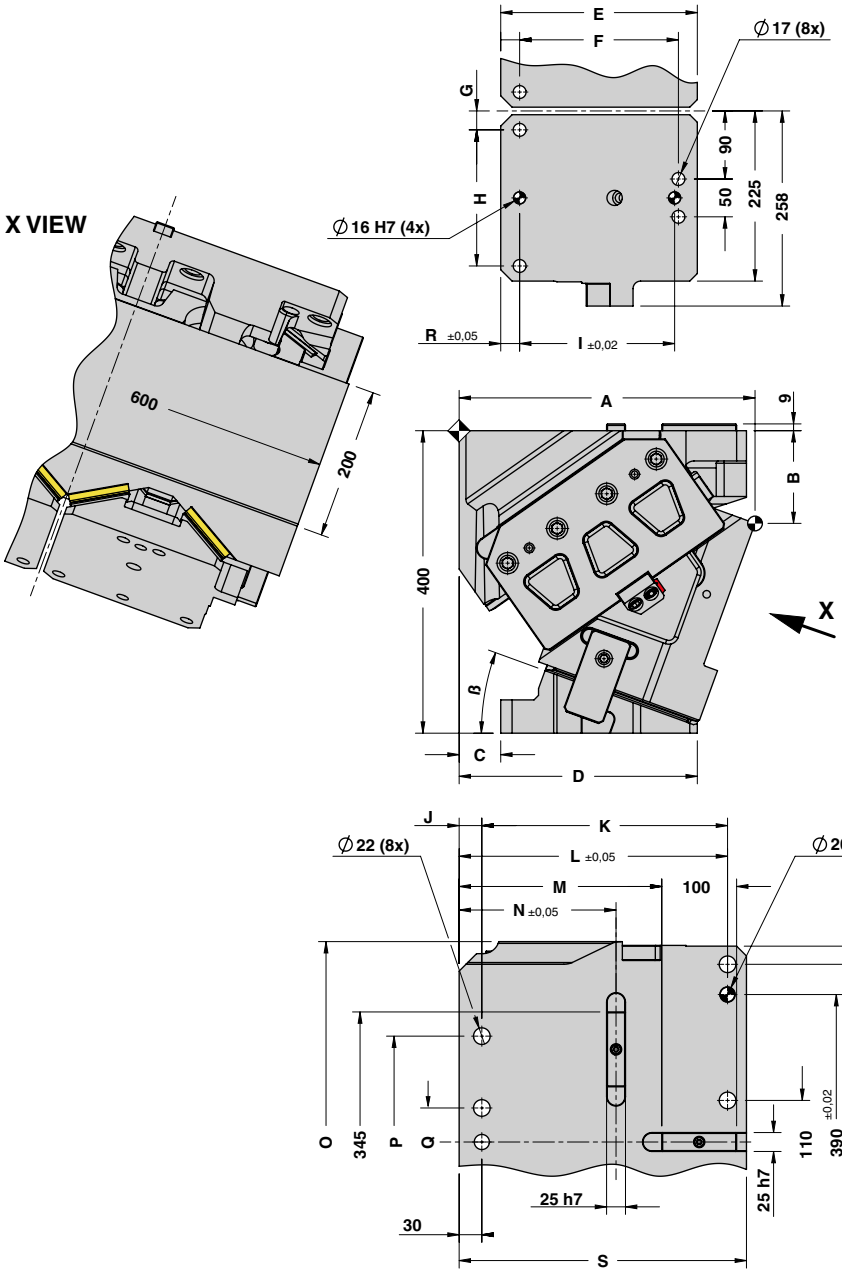
| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Gas Spring |
| CHV600.00 | 0° | 37,28 | 1202 | 98,1 |
| CHV600.05 | 5° | 41,17 | 1202 | 98,1 |
| CHV600.10 | 10° | 41,64 | 1202 | 98,5 |
| CHV600.15 | 15° | 46,00 | 1202 | 98,5 |
| CHV600.20 | 20° | 50,56 | 1202 | 98,5 |
| CHV600.25 | 25° | 52,42 | 1202 | 98,2 |
| CHV600.30 | 30° | 58,00 | 1202 | 98,2 |
| CHV600.35 | 35° | 61,32 | 1202 | 97,1 |
| CHV600.40 | 40° | 68,62 | 1202 | 97,1 |
| CHV600.45 | 45° | 74,34 | 1202 | 95,2 |
| CHV600.50 | 50° | 84,79 | 1202 | 95,2 |
| CHV600.55 | 55° | 95,02 | 1202 | 92,6 |
| CHV600.60 | 60° | 112,05 | 1202 | 92,6 |
| CHV600.65 | 65° | 102,85 | 1202 | 88,8 |
| CHV600.70 | 70° | 127,09 | 1202 | 84,9 |
| CHV600.75 | 75° | 114,15 | 1202 | 84,2 |

30 ORDER EXAMPLE

| Art. | Work Angle = 5° |
|---|---|
| CHV600 | 05 |

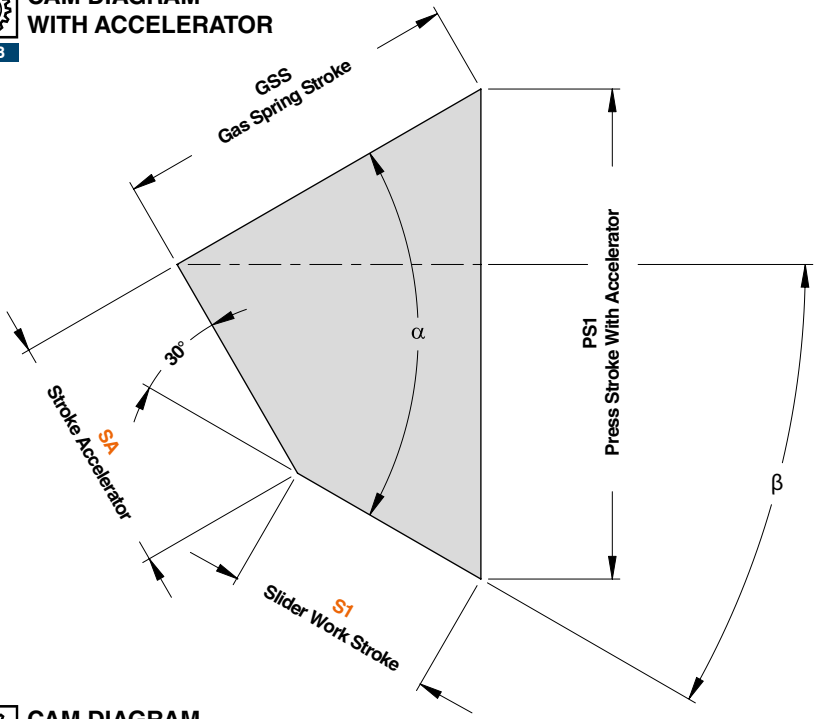
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
| CHV600.00 | 0° | 368,00 | 75,00 | 120 | 375 | 255 | 205 | 25 | 180 | 200 | 30 | 330 | 360 | 272,5 | 167,5 | 600 | 560 | 250 | 25 | 385 |
| CHV600.05 | 5° | 377,63 | 89,37 | 105 | 363 | 258 | 210 | 25 | 180 | 205 | 30 | 330 | 360 | 272,5 | 182,5 | 600 | 560 | 250 | 25 | 385 |
| CHV600.10 | 10° | 387,28 | 99,59 | 105 | 350 | 245 | 205 | 25 | 180 | 200 | 30 | 330 | 360 | 272,5 | 192,5 | 600 | 560 | 250 | 15 | 385 |
| CHV600.15 | 15° | 396,88 | 110,64 | 95 | 340 | 245 | 195 | 25 | 180 | 190 | 30 | 330 | 360 | 272,5 | 207,5 | 600 | 560 | 250 | 25 | 385 |
| CHV600.20 | 20° | 391,35 | 122,53 | 55 | 315 | 260 | 210 | 25 | 180 | 205 | 30 | 325 | 355 | 267,5 | 207,5 | 530 | 280 | 90 | 25 | 380 |
| CHV600.25 | 25° | 400,61 | 135,23 | 55 | 305 | 250 | 200 | 25 | 180 | 195 | 30 | 325 | 355 | 267,5 | 222,5 | 530 | 280 | 90 | 25 | 380 |
| CHV600.30 | 30° | 409,61 | 138,74 | 45 | 295 | 250 | 200 | 25 | 180 | 195 | 30 | 345 | 375 | 287,5 | 222,5 | 530 | 280 | 90 | 25 | 400 |
| CHV600.35 | 35° | 418,26 | 153,01 | 5 | 285 | 280 | 225 | 25 | 180 | 220 | 30 | 355 | 385 | 302,5 | 202,5 | 530 | 280 | 90 | 30 | 415 |
| CHV600.40 | 40° | 426,51 | 168,02 | 5 | 280 | 275 | 225 | 25 | 180 | 220 | 30 | 380 | 410 | 322,5 | 217,5 | 530 | 280 | 90 | 25 | 435 |
| CHV600.45 | 45° | 434,30 | 183,73 | 5 | 270 | 265 | 215 | 25 | 180 | 210 | 30 | 380 | 410 | 322,5 | 242,5 | 530 | 280 | 90 | 25 | 435 |
| CHV600.50 | 50° | 419,53 | 180,82 | -5 | 220 | 225 | 175 | 25 | 180 | 170 | 30 | 400 | 430 | 342,5 | 232,5 | 530 | 280 | 100 | 25 | 455 |
| CHV600.55 | 55° | 427,80 | 199,87 | -5 | 210 | 215 | 165 | 25 | 180 | 160 | 30 | 400 | 430 | 342,5 | 247,5 | 530 | 280 | 100 | 25 | 455 |
| CHV600.60 | 60° | 425,24 | 224,61 | -15 | 200 | 215 | 165 | 25 | 180 | 160 | 30 | 400 | 430 | 342,5 | 267,5 | 530 | 280 | 100 | 25 | 455 |
| CHV600.65 | 65° | 431,81 | 244,96 | 5 | 190 | 185 | 140 | 35 | 160 | 130 | 55 | 415 | 470 | 382,5 | 262,5 | 600 | 560 | 250 | 25 | 495 |
| CHV600.70 | 70° | 437,45 | 270,84 | 5 | 185 | 180 | 135 | 35 | 160 | 125 | 55 | 415 | 470 | 382,5 | 262,5 | 600 | 560 | 250 | 25 | 495 |
| CHV600.75 | 75° | 442,12 | 292,17 | 5 | 180 | 175 | 120 | 35 | 160 | 130 | 55 | 415 | 470 | 382,5 | 327,5 | 600 | 560 | 250 | 25 | 495 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



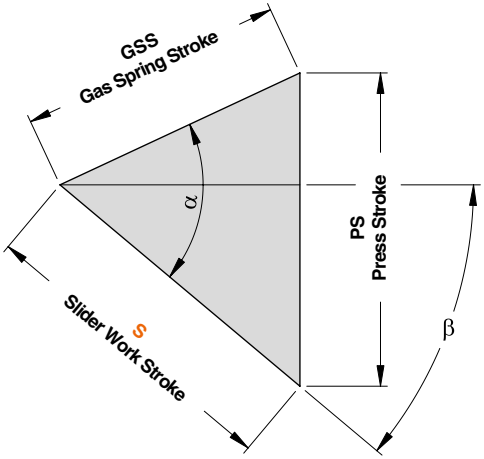
## CAM DIAGRAM WITH ACCELERATOR

WEB




## CAM DIAGRAM WITHOUT ACCELERATOR

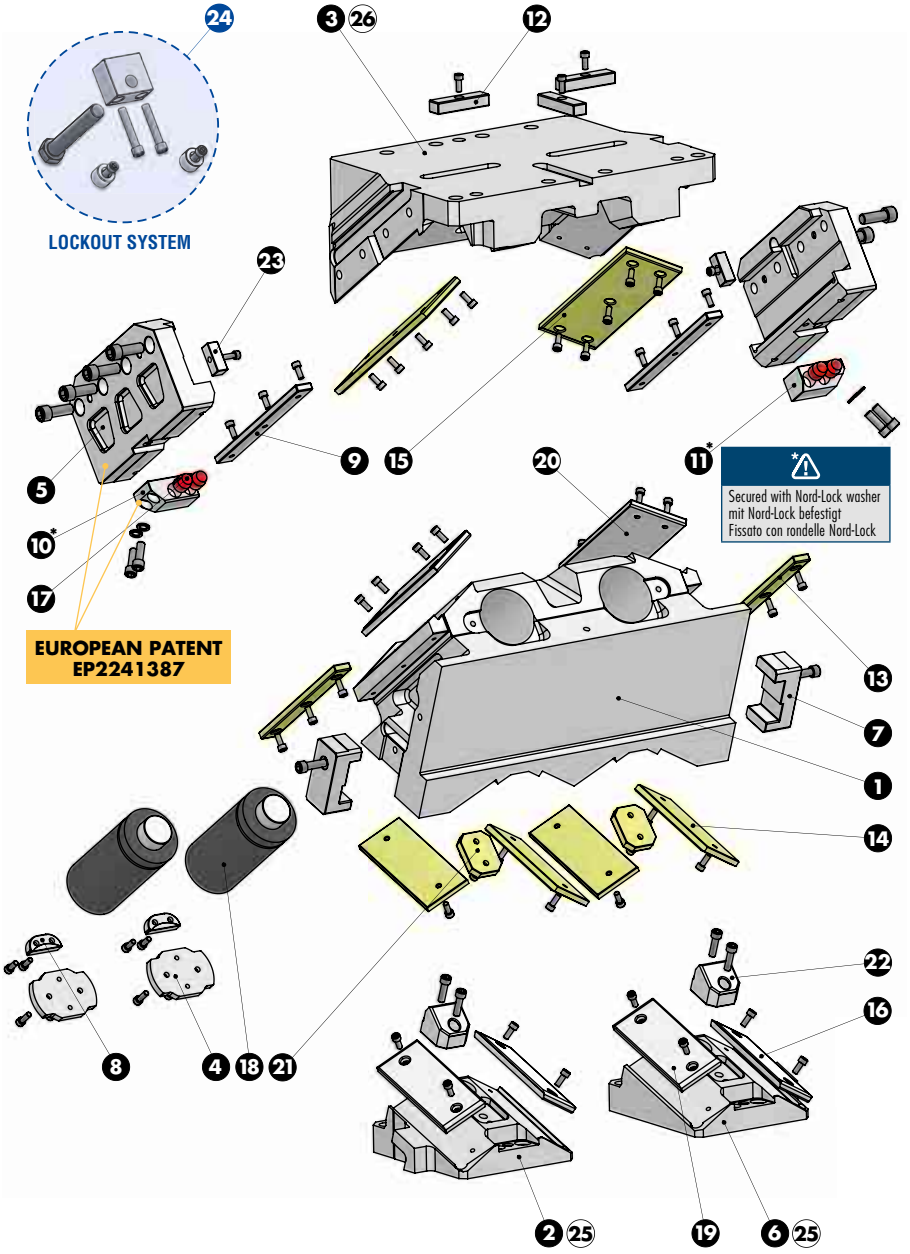
WEB



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

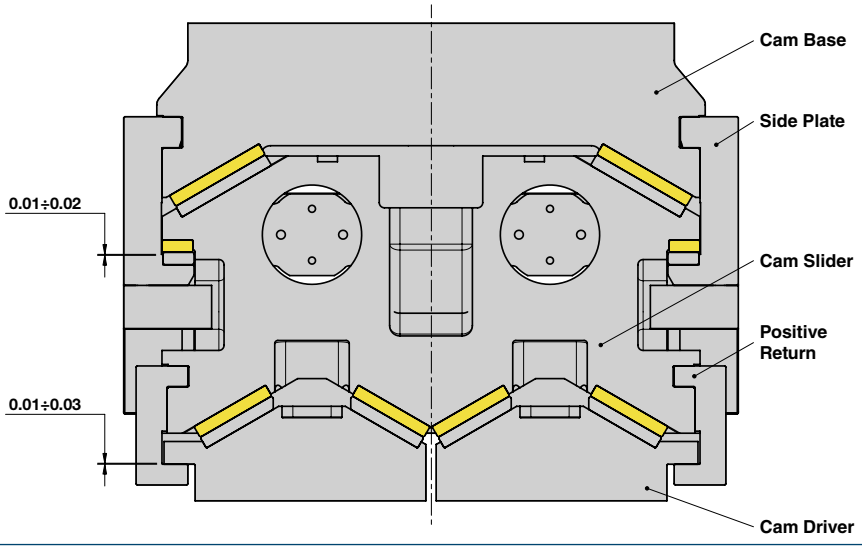
| OMCR CODE | Work Angle | Inner Angle | Slider Work Stroke (mm) | | Press Stroke (mm) | | Stroke Accelerator | Gas Spring Stroke (mm) |
|---|---|---|---|---|---|---|---|---|
| | β | α | S | S1 | Ps | Ps1 | SA | Gss |
| **CHV600.00** | 0° | 50° | 37,28 | 25,00 | 44,43 | 51,52 | 14,18 | 58 |
| **CHV600.05** | 5° | 50° | 41,17 | 25,00 | 44,60 | 54,47 | 19,66 | 58 |
| **CHV600.10** | 10° | 55° | 41,64 | 25,00 | 48,24 | 59,11 | 21,40 | 58 |
| **CHV600.15** | 15° | 55° | 46,00 | 35,00 | 49,19 | 56,96 | 15,02 | 58 |
| **CHV600.20** | 20° | 55° | 50,56 | 35,00 | 50,56 | 62,66 | 22,75 | 58 |
| **CHV600.25** | 25° | 60° | 52,42 | 35,00 | 55,42 | 70,61 | 27,53 | 58 |
| **CHV600.30** | 30° | 60° | 58,00 | 35,00 | 58,00 | 81,00 | 39,84 | 58 |
| **CHV600.35** | 35° | 65° | 61,32 | 40,00 | 64,17 | 89,39 | 41,32 | 58 |
| **CHV600.40** | 40° | 65° | 68,62 | 50,00 | 68,62 | 95,84 | 41,70 | 58 |
| **CHV600.45** | 45° | 70° | 74,34 | 55,00 | 77,08 | 114,44 | 52,84 | 58 |
| **CHV600.50** | 50° | 70° | 84,79 | 77,00 | 84,79 | 107,22 | 28,84 | 58 |
| **CHV600.55** | 55° | 75° | 95,02 | - | 97,67 | - | - | 58 |
| **CHV600.60** | 60° | 75° | 112,05 | - | 112,05 | - | - | 58 |
| **CHV600.65** | 65° | 80° | 102,85 | - | 104,86 | - | - | 45 |
| **CHV600.70** | 70° | 85° | 127,09 | - | 131,07 | - | - | 45 |
| **CHV600.75** | 75° | 85° | 114,15 | - | 115,47 | - | - | 30 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-60 | 1 |
| 2 | Cam Driver L | GGG-60 | 1 |
| 3 | Cam Base | GGG-60 | 1 |
| 4 | Lock Plate | 42CrMo4 | 2 |
| 5 | Side Plate | 42CrMo4 | 2 |
| 6 | Cam Driver R | GGG-60 | 1 |
| 7 | Positive Return | 42CrMo4 Nitrided | 2 |
| 8 | Safety Plate | CK45 | 2 |
| 9 | Wear Plate | 16MnCr5 - HRC 58÷60 | 2 |
| 10 | Slide Reaction L | CK45 | 1 |
| 11 | Slide Reaction R | CK45 | 1 |
| 12 | Key | CK45 | 3 |
| 13 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 14 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 4 |
| 15 | Wear Plate VDI 3357 | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 16 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 17 | Elastomer Cap | Elastomer 92SH | 4 |
| 18 | Gas Spring | - | 2 |
| 19 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 20 | Wear Plate VDI 3357 | 16MnCr5 - HRC 58÷60 | 2 |
| 21 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 22 | Accelerator | CK45 | 2 |
| 23 | Key | CK45 | 2 |
| 24 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 25 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 8 |
| 26 | Cam Base Fixing Screws M20x70 DIN 912 | - | 8 |



# Cam Units CHW
# Schieber CHW
# Unità a Camme CHW

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | Page number |
|---|---|---|---|---|---|---|---|
| | β | | | | Fs | Ef | |
| **CHW065** | 0°÷75° (5° steps) | 65 | 190÷205 | 65x95 | 210÷230 | 5,6÷6,8 | 780 |
| **CHW085** | 0°÷75° (5° steps) | 85 | 190÷205 | 65x95 | 210÷230 | 5,6÷6,8 | 784 |
| **CHW090** | 0°÷75° (5° steps) | 90 | 205÷240 | 90x100 | 250÷320 | 11÷13,2 | 788 |
| **CHW110** | 0°÷75° (5° steps) | 110 | 205÷240 | 90x100 | 250÷320 | 11÷13,2 | 792 |

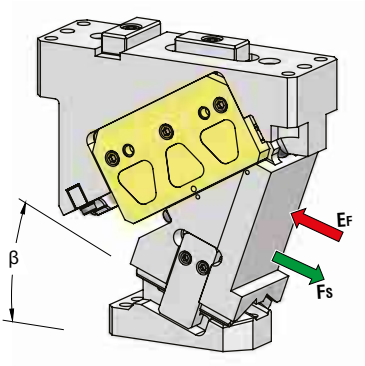






Precision and accurate dimensions through very strict quality guidelines

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHW065.00 | 0° | 28,9 | 210 | 5,6 |
| CHW065.05 | 5° | 31,9 | 212 | 5,6 |
| CHW065.10 | 10° | 35 | 214 | 5,8 |
| CHW065.15 | 15° | 38,16 | 214 | 5,8 |
| CHW065.20 | 20° | 41,47 | 216 | 6,1 |
| CHW065.25 | 25° | 45 | 216 | 6,1 |
| CHW065.30 | 30° | 48,83 | 218 | 6,3 |
| CHW065.35 | 35° | 53,06 | 218 | 6,3 |
| CHW065.40 | 40° | 57,85 | 220 | 6,3 |
| CHW065.45 | 45° | 63,4 | 222 | 6,5 |
| CHW065.50 | 50° | 46,6 | 222 | 6,5 |
| CHW065.55 | 55° | 52,3 | 224 | 6,5 |
| CHW065.60 | 60° | 46 | 226 | 6,6 |
| CHW065.65 | 65° | 54,4 | 228 | 6,6 |
| CHW065.70 | 70° | 39,5 | 230 | 6,8 |
| CHW065.75 | 75° | 52,16 | 230 | 6,8 |

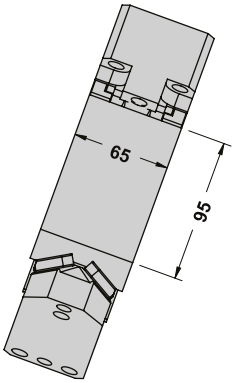
15 ORDER EXAMPLE

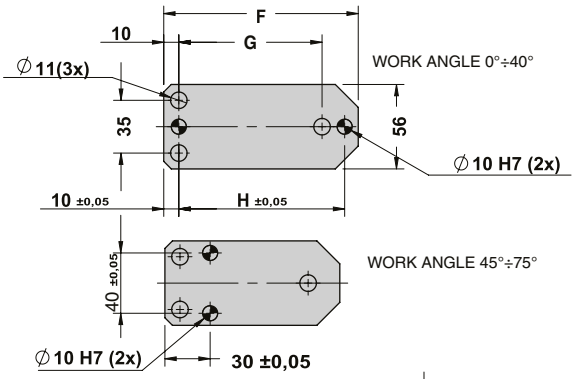
| Art. | Work Angle = 5° |
|---|---|
| CHW065. | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J |
| CHW065.00 | 0° | 170,88 | 55,77 | 44 | 180 | 200 | 136 | 95 | 115 | 164 | 183 |
| CHW065.05 | 5° | 179,54 | 57,5 | 55 | 175 | 200 | 120 | 80 | 100 | 173 | 191 |
| CHW065.10 | 10° | 179,7 | 59,37 | 40 | 175 | 205 | 135 | 100 | 115 | 175 | 195 |
| CHW065.15 | 15° | 186,81 | 59,53 | 40 | 160 | 200 | 120 | 85 | 100 | 183 | 201 |
| CHW065.20 | 20° | 190,11 | 69,84 | 35 | 164 | 205 | 129 | 95 | 110 | 190 | 208 |
| CHW065.25 | 25° | 194,23 | 68,75 | 30 | 154 | 195 | 124 | 80 | 100 | 195 | 213 |
| CHW065.30 | 30° | 195,12 | 71,6 | 25 | 154 | 195 | 129 | 90 | 105 | 195 | 213 |
| CHW065.35 | 35° | 195,51 | 75,18 | 10 | 130 | 190 | 120 | 80 | 95 | 200 | 218 |
| CHW065.40 | 40° | 194,77 | 85,49 | - | 120 | 195 | 120 | 80 | 95 | 197 | 215 |
| CHW065.45 | 45° | 193,55 | 86,14 | - | 116 | 195 | 116 | 85 | - | 197 | 215 |
| CHW065.50 | 50° | 164,18 | 94,49 | -22 | 78 | 190 | 100 | 60 | - | 172 | 190 |
| CHW065.55 | 55° | 175,74 | 120,29 | -8 | 82 | 200 | 90 | 45 | - | 172 | 190 |
| CHW065.60 | 60° | 176,87 | 121,2 | -5 | 80 | 200 | 85 | 50 | - | 172 | 190 |
| CHW065.65 | 65° | 180,09 | 131,37 | -5 | 80 | 195 | 85 | 40 | - | 172 | 190 |
| CHW065.70 | 70° | 183 | 142,17 | -5 | 80 | 200 | 85 | 36 | - | 172 | 190 |
| CHW065.75 | 75° | 183,62 | 144,44 | -10 | 76 | 190 | 86 | 45 | - | 172 | 190 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

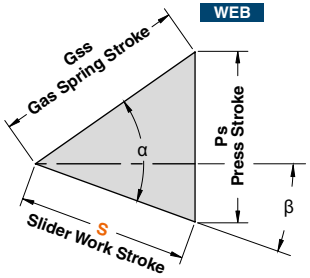
### X VIEW

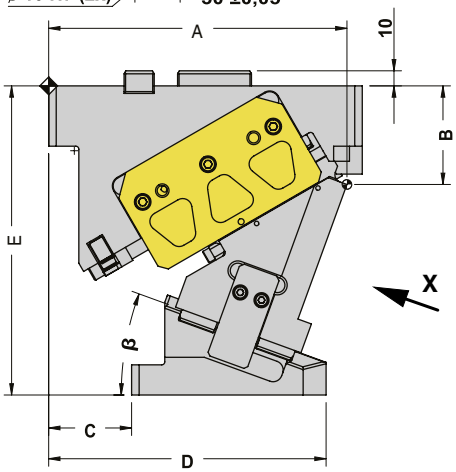


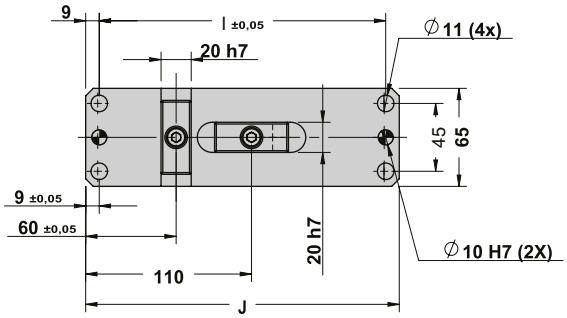

### CAM DIAGRAM

WEB

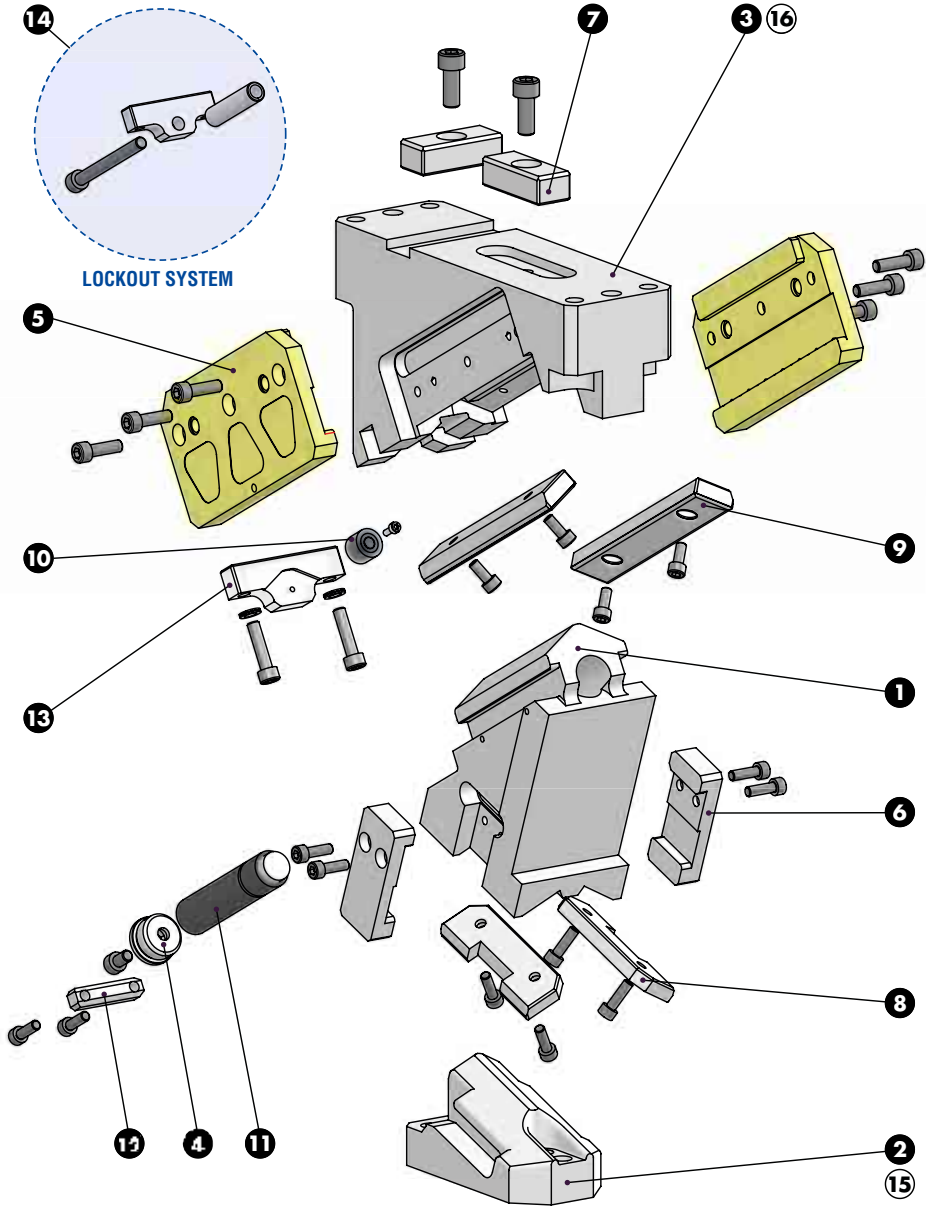



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 28,9 | 34,5 | 45 |
| 5° | 50° | 31,9 | 34,5 | 45 |
| 10° | 50° | 35 | 35 | 45 |
| 15° | 50° | 38,16 | 35,69 | 45 |
| 20° | 50° | 41,47 | 36,68 | 45 |
| 25° | 50° | 45 | 38 | 45 |
| 30° | 50° | 48,83 | 39,8 | 45 |
| 35° | 50° | 53,06 | 42,08 | 45 |
| 40° | 50° | 57,85 | 45 | 45 |
| 45° | 50° | 63,4 | 48,75 | 45 |
| 50° | 50° | 46,6 | 35,75 | 30 |
| 55° | 55° | 52,3 | 42,85 | 30 |
| 60° | 60° | 46 | 39,8 | 23 |
| 65° | 65° | 54,4 | 49,3 | 23 |
| 70° | 70° | 39,5 | 37 | 13,5 |
| 75° | 75° | 52,16 | 50,4 | 13,5 |

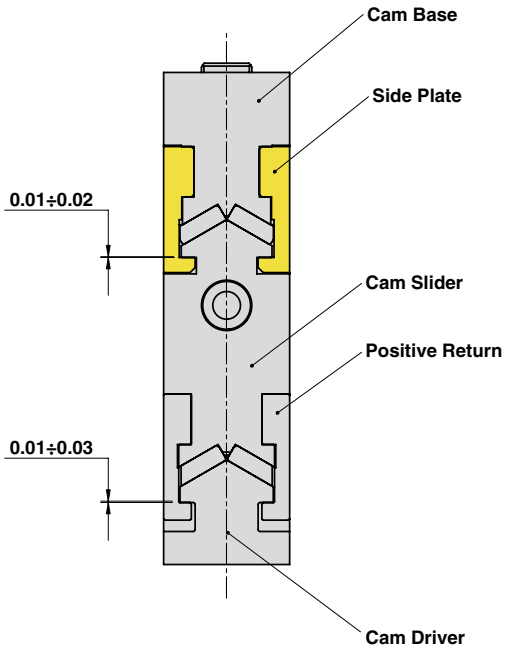


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

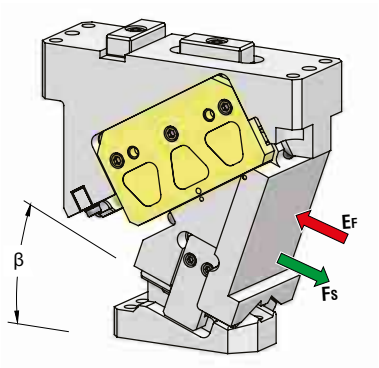
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Spring spacer | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 2 |
| 8 | Wear Plate | St42 + Syntered layer | 2 |
| 9 | Wear Plate | St42 + Syntered layer | 2 |
| 10 | Elastomer | Elastomer | 1 |
| 11 | Gas Spring | - | 1 |
| 12 | Safety plate | CK45 | 1 |
| 13 | Stopper plate | CK45 | 1 |
| 14 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 15 | Cam Driver Fixing Screws M10 DIN 912 | - | 3 |
| 16 | Cam Base Fixing Screws M10 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHW085.00 | 0° | 28,9 | 210 | 5,6 |
| CHW085.05 | 5° | 31,9 | 212 | 5,6 |
| CHW085.10 | 10° | 35 | 214 | 5,8 |
| CHW085.15 | 15° | 38,16 | 214 | 5,8 |
| CHW085.20 | 20° | 41,47 | 216 | 6,1 |
| CHW085.25 | 25° | 45 | 216 | 6,1 |
| CHW085.30 | 30° | 48,83 | 218 | 6,3 |
| CHW085.35 | 35° | 53,06 | 218 | 6,3 |
| CHW085.40 | 40° | 57,85 | 220 | 6,3 |
| CHW085.45 | 45° | 63,4 | 222 | 6,5 |
| CHW085.50 | 50° | 46,6 | 222 | 6,5 |
| CHW085.55 | 55° | 52,3 | 224 | 6,5 |
| CHW085.60 | 60° | 46 | 226 | 6,6 |
| CHW085.65 | 65° | 54,4 | 228 | 6,6 |
| CHW085.70 | 70° | 39,5 | 230 | 6,8 |
| CHW085.75 | 75° | 52,16 | 230 | 6,8 |

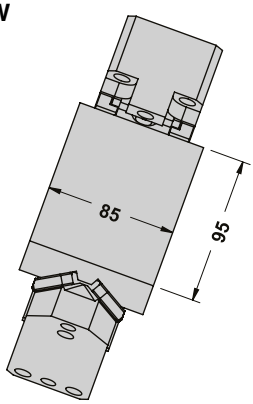
15 ORDER EXAMPLE

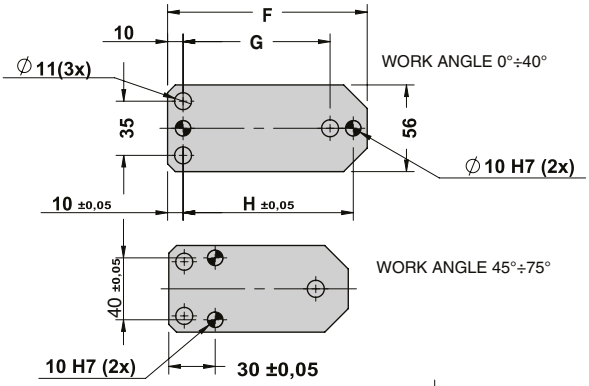
| Art. | Work Angle = 5° |
|---|---|
| CHW085. | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J |
| CHW085.00 | 0° | 170,88 | 55,77 | 44 | 180 | 200 | 136 | 95 | 115 | 164 | 183 |
| CHW085.05 | 5° | 179,54 | 57,5 | 55 | 175 | 200 | 120 | 80 | 100 | 173 | 191 |
| CHW085.10 | 10° | 179,7 | 59,37 | 40 | 175 | 205 | 135 | 100 | 115 | 175 | 195 |
| CHW085.15 | 15° | 186,81 | 59,53 | 40 | 160 | 200 | 120 | 85 | 100 | 183 | 201 |
| CHW085.20 | 20° | 190,11 | 69,84 | 35 | 164 | 205 | 129 | 95 | 110 | 190 | 208 |
| CHW085.25 | 25° | 194,23 | 68,75 | 30 | 154 | 195 | 124 | 80 | 100 | 195 | 213 |
| CHW085.30 | 30° | 195,12 | 71,6 | 25 | 154 | 195 | 129 | 90 | 105 | 195 | 213 |
| CHW085.35 | 35° | 195,51 | 75,18 | 10 | 130 | 190 | 120 | 80 | 95 | 200 | 218 |
| CHW085.40 | 40° | 194,77 | 85,49 | - | 120 | 195 | 120 | 80 | 95 | 197 | 215 |
| CHW085.45 | 45° | 193,55 | 86,14 | - | 116 | 195 | 116 | 85 | - | 197 | 215 |
| CHW085.50 | 50° | 164,18 | 94,49 | -22 | 78 | 190 | 100 | 60 | - | 172 | 190 |
| CHW085.55 | 55° | 175,74 | 120,29 | -8 | 82 | 200 | 90 | 45 | - | 172 | 190 |
| CHW085.60 | 60° | 176,87 | 121,2 | -5 | 80 | 200 | 85 | 50 | - | 172 | 190 |
| CHW085.65 | 65° | 180,09 | 131,37 | -5 | 80 | 195 | 85 | 40 | - | 172 | 190 |
| CHW085.70 | 70° | 183 | 142,17 | -5 | 80 | 200 | 85 | 36 | - | 172 | 190 |
| CHW085.75 | 75° | 183,62 | 144,44 | -10 | 76 | 190 | 86 | 45 | - | 172 | 190 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

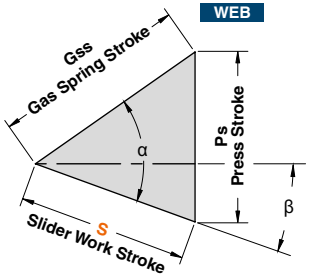
### X VIEW

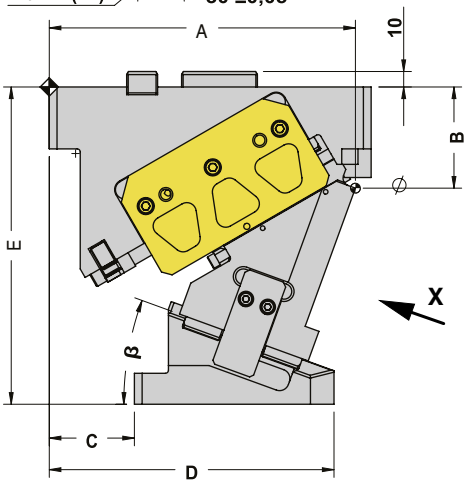


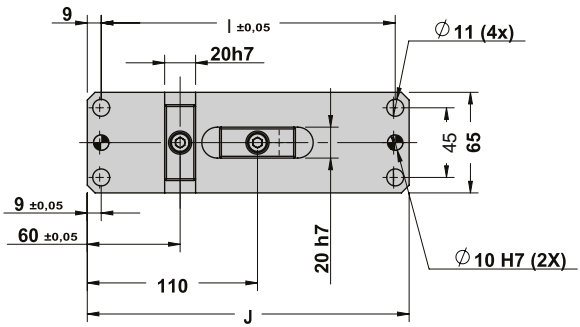

### CAM DIAGRAM

WEB

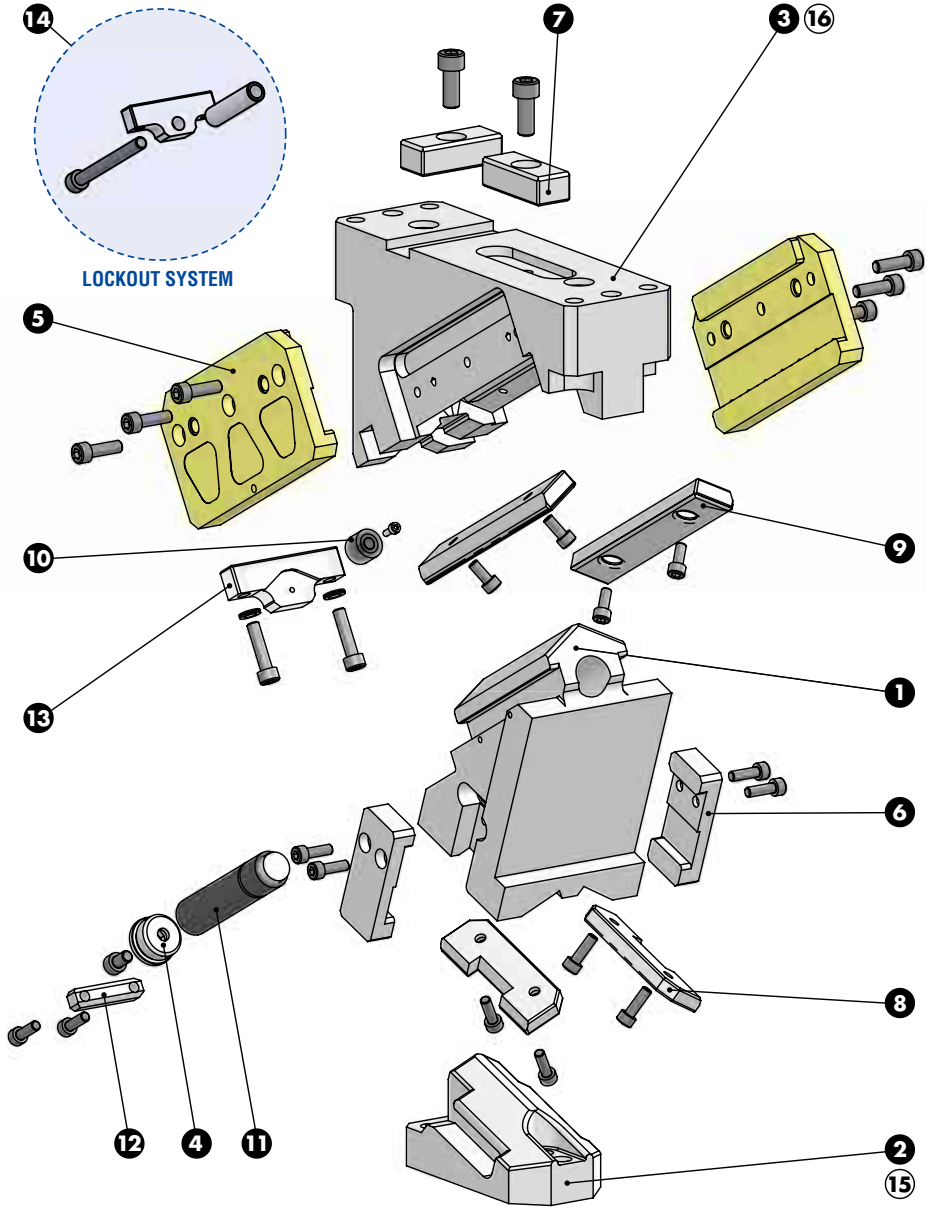



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 28,9 | 34,5 | 45 |
| 5° | 50° | 31,9 | 34,5 | 45 |
| 10° | 50° | 35 | 35 | 45 |
| 15° | 50° | 38,16 | 35,69 | 45 |
| 20° | 50° | 41,47 | 36,68 | 45 |
| 25° | 50° | 45 | 38 | 45 |
| 30° | 50° | 48,83 | 39,8 | 45 |
| 35° | 50° | 53,06 | 42,08 | 45 |
| 40° | 50° | 57,85 | 45 | 45 |
| 45° | 50° | 63,4 | 48,75 | 45 |
| 50° | 50° | 46,6 | 35,75 | 30 |
| 55° | 55° | 52,3 | 42,85 | 30 |
| 60° | 60° | 46 | 39,8 | 23 |
| 65° | 65° | 54,4 | 49,3 | 23 |
| 70° | 70° | 39,5 | 37 | 13,5 |
| 75° | 75° | 52,16 | 50,4 | 13,5 |

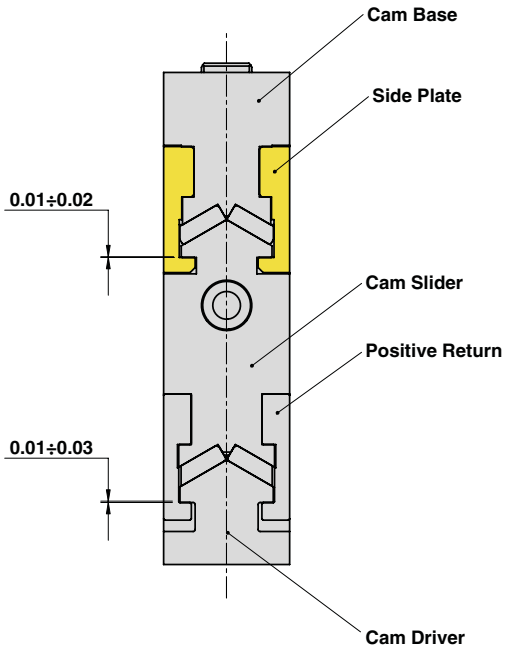


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

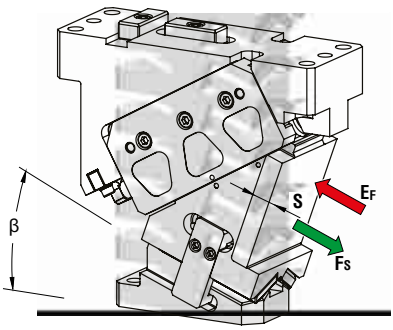
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Spring spacer | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 2 |
| 8 | Wear Plate | St42 + Syntered layer | 2 |
| 9 | Wear Plate | St42 + Syntered layer | 2 |
| 10 | Elastomer | Elastomer | 1 |
| 11 | Gas Spring | - | 1 |
| 12 | Safety plate | CK45 | 1 |
| 13 | Stopper plate | CK45 | 1 |
| 14 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 15 | Cam Driver Fixing Screws M10 DIN 912 | - | 3 |
| 16 | Cam Base Fixing Screws M10 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHW090.00 | 0° | 28 | 250 | 11 |
| CHW090.05 | 5° | 30,8 | 255 | 11 |
| CHW090.10 | 10° | 33,84 | 260 | 11,5 |
| CHW090.15 | 15° | 36,89 | 260 | 11,5 |
| CHW090.20 | 20° | 40 | 265 | 11,5 |
| CHW090.25 | 25° | 43,5 | 270 | 12 |
| CHW090.30 | 30° | 47,2 | 275 | 12 |
| CHW090.35 | 35° | 51,29 | 280 | 12,4 |
| CHW090.40 | 40° | 55,92 | 280 | 12,4 |
| CHW090.45 | 45° | 61,28 | 285 | 12,6 |
| CHW090.50 | 50° | 66,9 | 290 | 12,6 |
| CHW090.55 | 55° | 57,53 | 300 | 12,8 |
| CHW090.60 | 60° | 66 | 305 | 12,8 |
| CHW090.65 | 65° | 78,08 | 310 | 13 |
| CHW090.70 | 70° | 67,25 | 318 | 13 |
| CHW090.75 | 75° | 61,82 | 320 | 13,2 |

15 ORDER EXAMPLE

| Art. | Work Angle = 5° |
|---|---|
| CHW090. | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J |
| CHW090.00 | 0° | 196,69 | 70,15 | 72 | 208 | 230 | 136 | 105 | 75 | 191 | 215 |
| CHW090.05 | 5° | 206,69 | 74,45 | 70 | 260 | 235 | 135 | 90 | 110 | 201 | 225 |
| CHW090.10 | 10° | 215,17 | 79,64 | 65 | 205 | 240 | 140 | 95 | 115 | 211 | 235 |
| CHW090.15 | 15° | 216,42 | 86,42 | 55 | 195 | 240 | 140 | 95 | 115 | 216 | 240 |
| CHW090.20 | 20° | 217,31 | 83,67 | 50,5 | 185,5 | 230 | 135 | 90 | 110 | 221 | 245 |
| CHW090.25 | 25° | 220,17 | 86,39 | 45 | 180 | 230 | 135 | 90 | 110 | 221 | 245 |
| CHW090.30 | 30° | 223,69 | 91,43 | 30 | 165 | 225 | 135 | 90 | 110 | 226 | 250 |
| CHW090.35 | 35° | 222,78 | 94,02 | 20 | 155 | 220 | 135 | 90 | 110 | 226 | 250 |
| CHW090.40 | 40° | 217,88 | 96,41 | 15 | 150 | 220 | 135 | 90 | 110 | 226 | 250 |
| CHW090.45 | 45° | 218,48 | 94,32 | 5 | 140 | 205 | 135 | 90 | 110 | 226 | 250 |
| CHW090.50 | 50° | 205,11 | 106,51 | 0 | 115 | 205 | 115 | 63 | 50 | 216 | 240 |
| CHW090.55 | 55° | 203,78 | 107,91 | 0 | 105 | 210 | 105 | 60 | 50 | 216 | 240 |
| CHW090.60 | 60° | 216,26 | 112,73 | -5 | 100 | 210 | 105 | 60 | 50 | 216 | 240 |
| CHW090.65 | 65° | 217,57 | 136,11 | -10 | 95 | 220 | 105 | 50 | 50 | 216 | 240 |
| CHW090.70 | 70° | 207,35 | 139,74 | -20 | 83 | 215 | 102 | 40 | 50 | 216 | 240 |
| CHW090.75 | 75° | 206,25 | 154,43 | -15 | 80 | 210 | 95 | 40 | 50 | 216 | 240 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

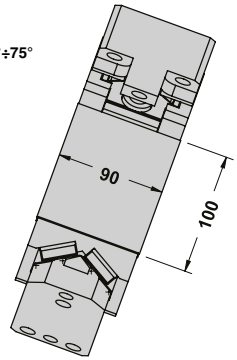
### X VIEW

**WORK ANGLE 0°**

**K=15**

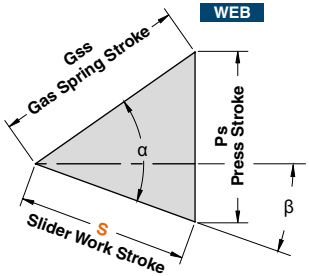
**WORK ANGLE 5°÷75°**

**K=12**

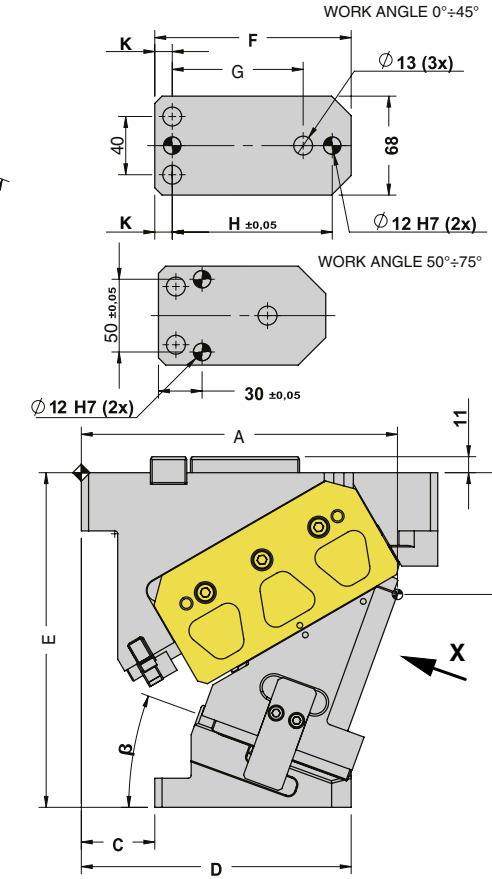


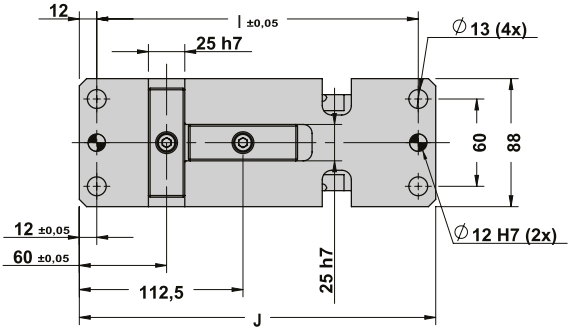

WEB

### CAM DIAGRAM

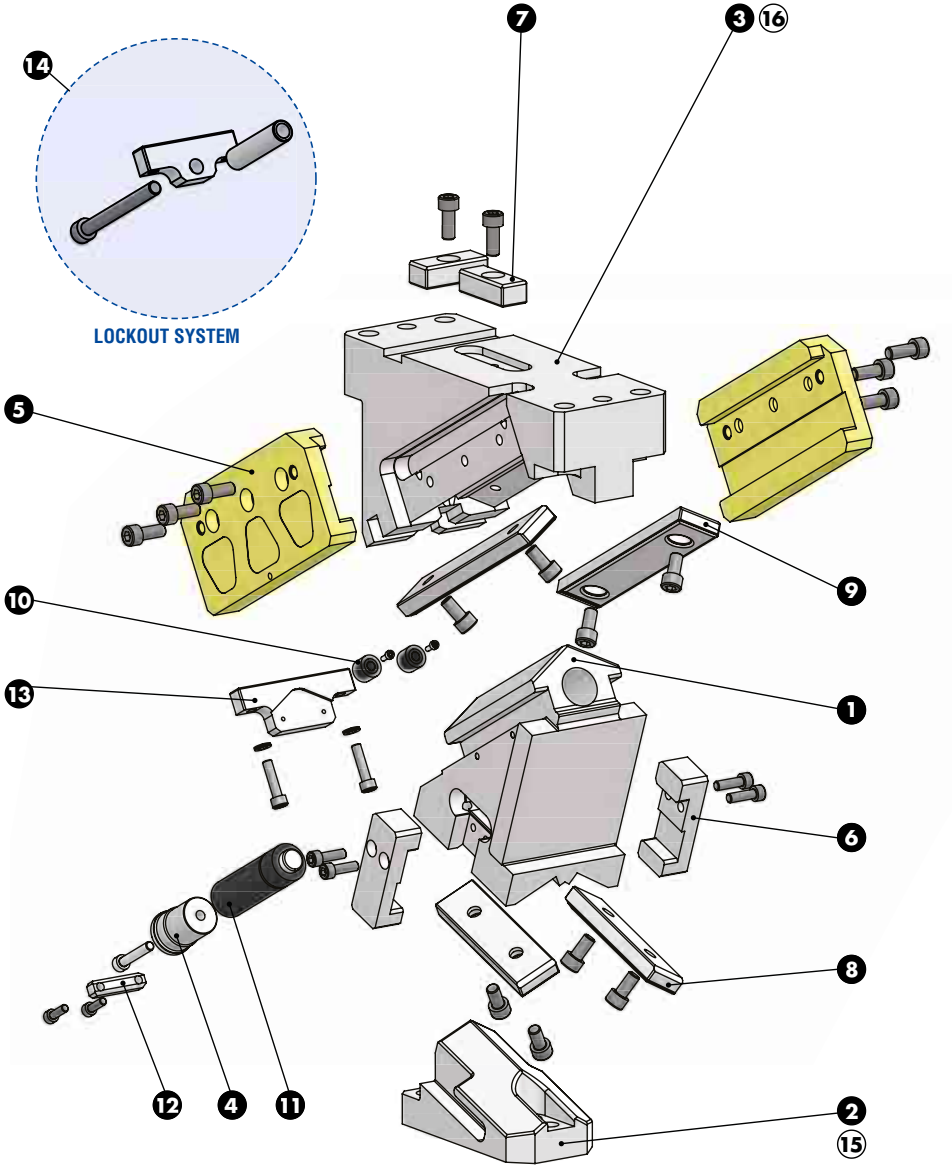



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 28 | 33,33 | 43,5 |
| 5° | 50° | 30,8 | 33,45 | 43,5 |
| 10° | 50° | 33,84 | 33,84 | 43,5 |
| 15° | 50° | 36,89 | 34,5 | 43,5 |
| 20° | 50° | 40 | 35,46 | 43,5 |
| 25° | 50° | 43,5 | 36,77 | 43,5 |
| 30° | 50° | 47,2 | 38,48 | 43,5 |
| 35° | 50° | 51,29 | 40,68 | 43,5 |
| 40° | 50° | 55,92 | 43,5 | 43,5 |
| 45° | 50° | 61,28 | 47,13 | 43,5 |
| 50° | 50° | 66,9 | 51,25 | 43 |
| 55° | 55° | 57,53 | 47,13 | 33 |
| 60° | 60° | 66 | 57,16 | 33 |
| 65° | 65° | 78,08 | 70,77 | 33 |
| 70° | 70° | 67,25 | 63,19 | 23 |
| 75° | 75° | 61,82 | 59,71 | 16 |



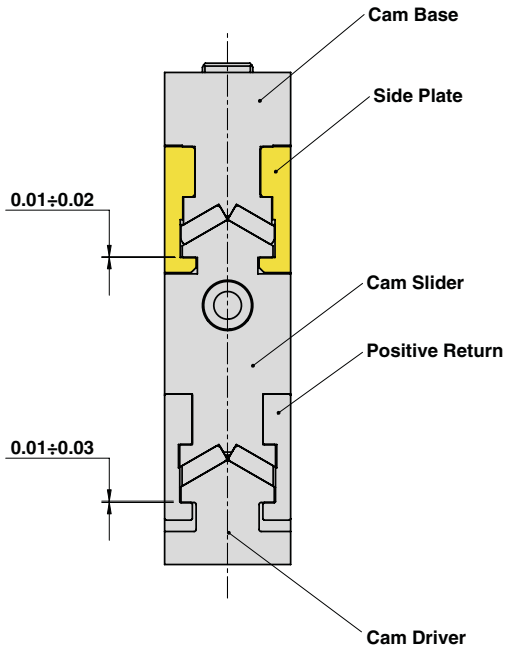



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

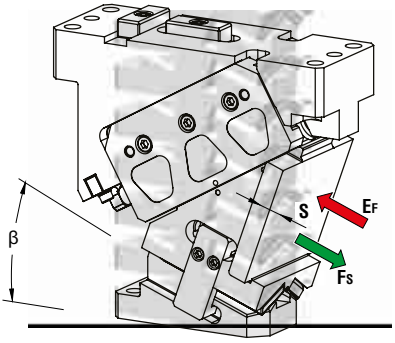





## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Spring spacer | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 2 |
| 8 | Wear Plate | St42 + Syntered layer | 2 |
| 9 | Wear Plate | St42 + Syntered layer | 2 |
| 10 | Elastomer | Elastomer | 2 |
| 11 | Gas Spring | - | 1 |
| 12 | Safety plate | CK45 | 1 |
| 13 | Stopper plate | CK45 | 1 |
| 14 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 15 | Cam Driver Fixing Screws M12 DIN 912 | - | 3 |
| 16 | Cam Base Fixing Screws M12 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Gas Spring |
| CHW110.00 | 0° | 28 | 250 | 11 |
| CHW110.05 | 5° | 30,8 | 255 | 11 |
| CHW110.10 | 10° | 33,84 | 260 | 11,5 |
| CHW110.15 | 15° | 36,89 | 260 | 11,5 |
| CHW110.20 | 20° | 40 | 265 | 11,5 |
| CHW110.25 | 25° | 43,5 | 270 | 12 |
| CHW110.30 | 30° | 47,2 | 275 | 12 |
| CHW110.35 | 35° | 51,29 | 280 | 12,4 |
| CHW110.40 | 40° | 55,92 | 280 | 12,4 |
| CHW110.45 | 45° | 61,28 | 285 | 12,6 |
| CHW110.50 | 50° | 66,9 | 290 | 12,6 |
| CHW110.55 | 55° | 57,53 | 300 | 12,8 |
| CHW110.60 | 60° | 66 | 305 | 12,8 |
| CHW110.65 | 65° | 78,08 | 310 | 13 |
| CHW110.70 | 70° | 67,25 | 318 | 13 |
| CHW110.75 | 75° | 61,82 | 320 | 13,2 |

15 ORDER EXAMPLE

| Art. | Work Angle = 5° |
|---|---|
| CHW110. | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I | J |
| CHW110.00 | 0° | 196,69 | 70,15 | 72 | 208 | 230 | 136 | 105 | 75 | 191 | 215 |
| CHW110.05 | 5° | 206,69 | 74,45 | 70 | 260 | 235 | 135 | 90 | 110 | 201 | 225 |
| CHW110.10 | 10° | 215,17 | 79,64 | 65 | 205 | 240 | 140 | 95 | 115 | 211 | 235 |
| CHW110.15 | 15° | 216,42 | 86,42 | 55 | 195 | 240 | 140 | 95 | 115 | 216 | 240 |
| CHW110.20 | 20° | 217,31 | 83,67 | 50,5 | 185,5 | 230 | 135 | 90 | 110 | 221 | 245 |
| CHW110.25 | 25° | 220,17 | 86,39 | 45 | 180 | 230 | 135 | 90 | 110 | 221 | 245 |
| CHW110.30 | 30° | 223,69 | 91,43 | 30 | 165 | 225 | 135 | 90 | 110 | 226 | 250 |
| CHW110.35 | 35° | 222,78 | 94,02 | 20 | 155 | 220 | 135 | 90 | 110 | 226 | 250 |
| CHW110.40 | 40° | 217,88 | 96,41 | 15 | 150 | 220 | 135 | 90 | 110 | 226 | 250 |
| CHW110.45 | 45° | 218,48 | 94,32 | 5 | 140 | 205 | 135 | 90 | 110 | 226 | 250 |
| CHW110.50 | 50° | 205,11 | 106,51 | 0 | 115 | 205 | 115 | 63 | 50 | 216 | 240 |
| CHW110.55 | 55° | 203,78 | 107,91 | 0 | 105 | 210 | 105 | 60 | 50 | 216 | 240 |
| CHW110.60 | 60° | 216,26 | 112,73 | -5 | 100 | 210 | 105 | 60 | 50 | 216 | 240 |
| CHW110.65 | 65° | 217,57 | 136,11 | -10 | 95 | 220 | 105 | 50 | 50 | 216 | 240 |
| CHW110.70 | 70° | 207,35 | 139,74 | -20 | 83 | 215 | 102 | 40 | 50 | 216 | 240 |
| CHW110.75 | 75° | 206,25 | 154,43 | -15 | 80 | 210 | 95 | 40 | 50 | 216 | 240 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

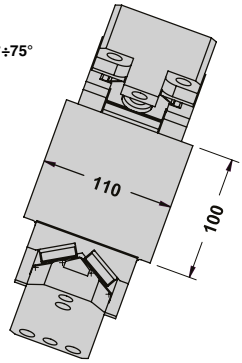
### X VIEW

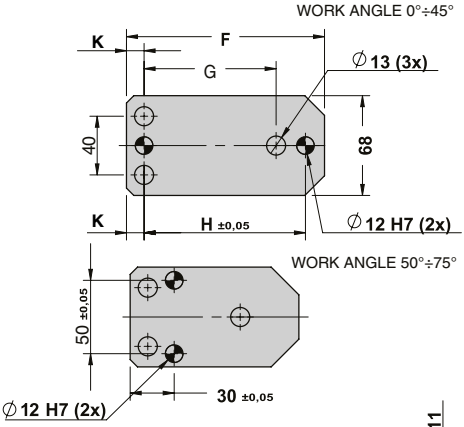
**WORK ANGLE 0°**

**K=15**

**WORK ANGLE 5°÷75°**

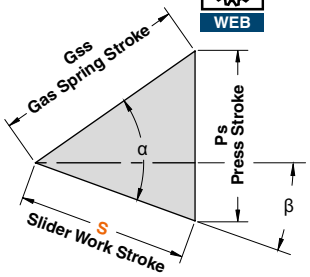
**K=12**

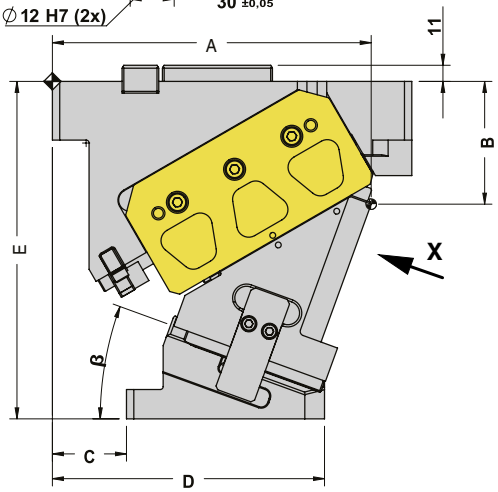


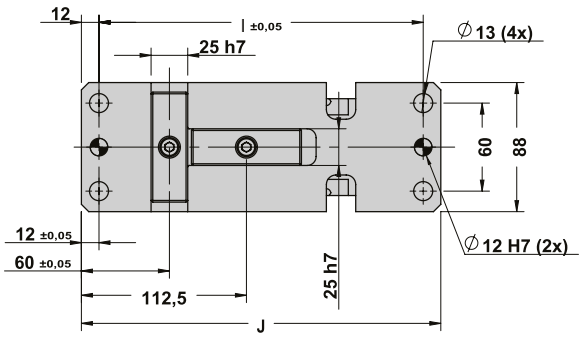

### CAM DIAGRAM

WEB

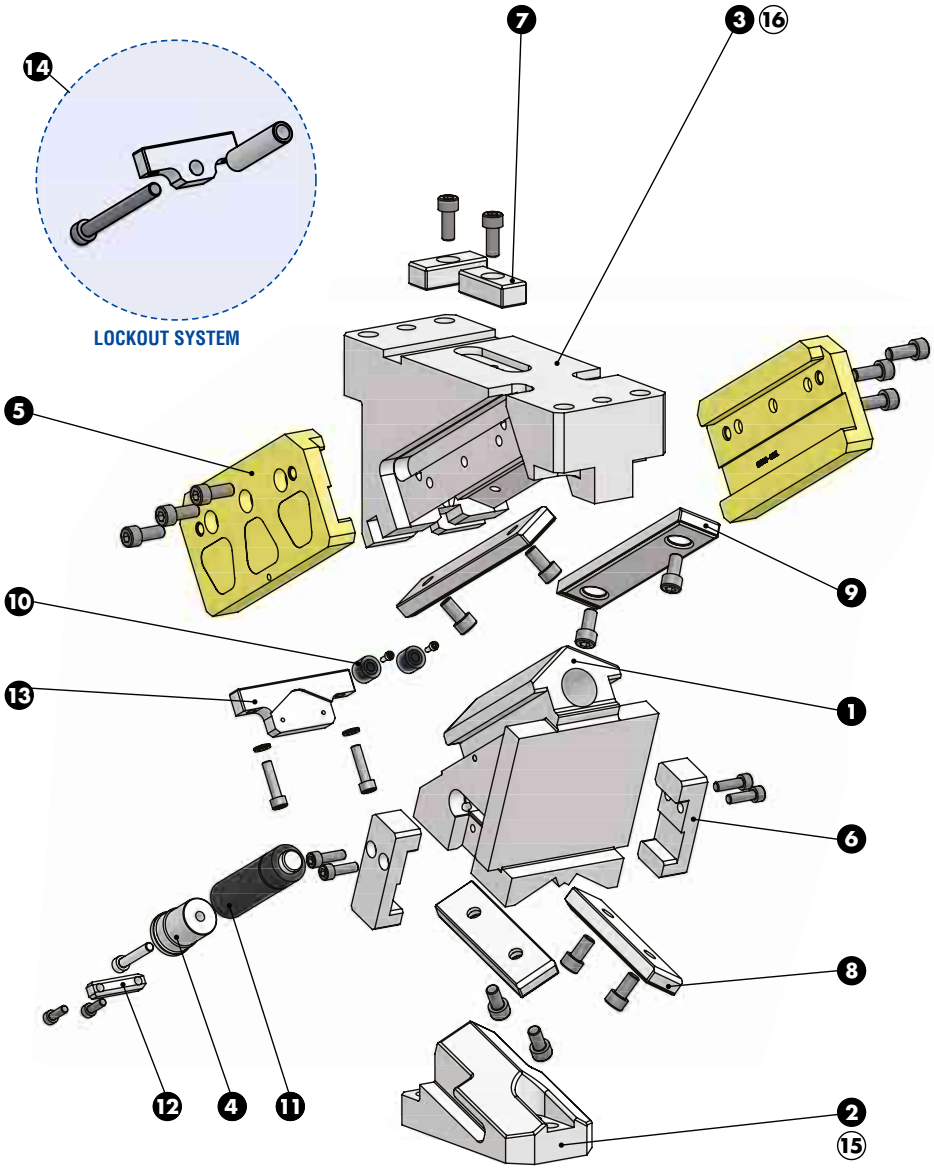



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 28 | 33,33 | 43,5 |
| 5° | 50° | 30,8 | 33,45 | 43,5 |
| 10° | 50° | 33,84 | 33,84 | 43,5 |
| 15° | 50° | 36,89 | 34,5 | 43,5 |
| 20° | 50° | 40 | 35,46 | 43,5 |
| 25° | 50° | 43,5 | 36,77 | 43,5 |
| 30° | 50° | 47,2 | 38,48 | 43,5 |
| 35° | 50° | 51,29 | 40,68 | 43,5 |
| 40° | 50° | 55,92 | 43,5 | 43,5 |
| 45° | 50° | 61,28 | 47,13 | 43,5 |
| 50° | 50° | 66,9 | 51,25 | 43 |
| 55° | 55° | 57,53 | 47,13 | 33 |
| 60° | 60° | 66 | 57,16 | 33 |
| 65° | 65° | 78,08 | 70,77 | 33 |
| 70° | 70° | 67,25 | 63,19 | 23 |
| 75° | 75° | 61,82 | 59,71 | 16 |

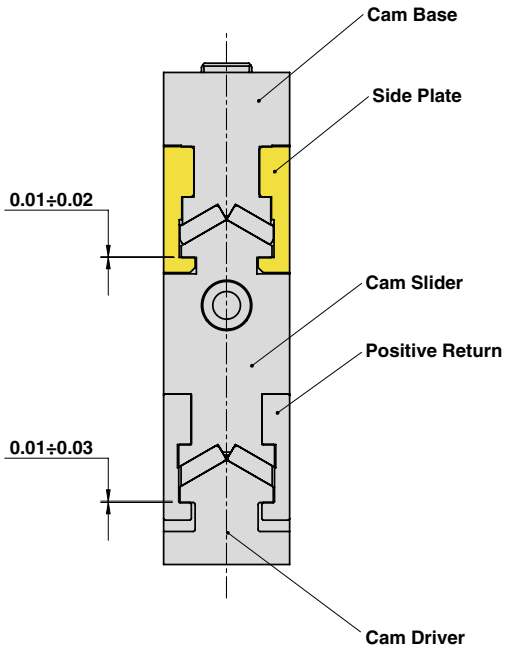


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES






## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | 42CrMo4 | 1 |
| 2 | Cam Driver | 42CrMo4 | 1 |
| 3 | Cam Base | 42CrMo4 | 1 |
| 4 | Spring spacer | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return | 42CrMo4 Nitrided | 2 |
| 7 | Key | CK45 | 2 |
| 8 | Wear Plate | St42 + Syntered layer | 2 |
| 9 | Wear Plate | St42 + Syntered layer | 2 |
| 10 | Elastomer | Elastomer | 2 |
| 11 | Gas Spring | - | 1 |
| 12 | Safety plate | CK45 | 1 |
| 13 | Stopper plate | CK45 | 1 |
| 14 | LOCKOUT SYSTEM | (more info on OMCR website) | 1 |
| 15 | Cam Driver Fixing Screws M12 DIN 912 | - | 3 |
| 16 | Cam Base Fixing Screws M12 DIN 912 | - | 4 |



# Cam Units CLB
# Schieber CLB
# Unità a Camme CLB

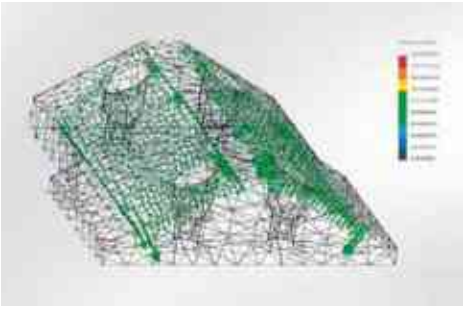
STAR CAM SERIES
HIGH PERFORMANCE

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | | Page number |
|---|---|---|---|---|---|---|---|---|
| | β | | | | Fs | EF Spring | EF Gas Spring | |
| **CLB200** | 0°÷60° (5° steps) | 200 | 350 | 200x180 | 302 | 2,12÷2,73 | 8,88÷11,42 | 798 |
| **CLB300** | 0°÷60° (5° steps) | 300 | 350 | 300x180 | 411 | 4,25÷5,46 | 17,76÷22,83 | 802 |
| **CLB400** | 0°÷60° (5° steps) | 400 | 350 | 400x180 | 526 | 4,25÷5,46 | 17,76÷22,83 | 806 |
| **CLB500** | 0°÷60° (5° steps) | 500 | 350 | 500x180 | 743 | 6,37÷8,19 | 26,64÷34,25 | 810 |
| **CLB600** | 0°÷60° (5° steps) | 600 | 350 | 600x180 | 865 | 8,50÷10,92 | 35,52÷45,67 | 814 |

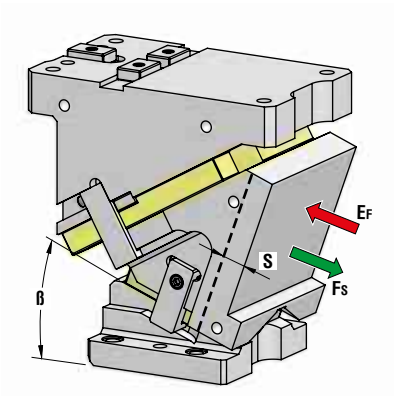






Research and product development

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CLB200.00 | 0° | 38,57 | 302 | 2,73 | 11,42 |
| CLB200.05 | 5° | 42,59 | 302 | 2,73 | 11,42 |
| CLB200.10 | 10° | 46,67 | 302 | 2,73 | 11,42 |
| CLB200.15 | 15° | 50,88 | 302 | 2,73 | 11,42 |
| CLB200.20 | 20° | 55,30 | 302 | 2,73 | 11,42 |
| CLB200.25 | 25° | 60 | 302 | 2,73 | 11,42 |
| CLB200.30 | 30° | 65,10 | 302 | 2,73 | 11,42 |
| CLB200.35 | 35° | 70,75 | 302 | 2,73 | 11,42 |
| CLB200.40 | 40° | 77,13 | 302 | 2,73 | 11,42 |
| CLB200.45 | 45° | 84,53 | 302 | 2,73 | 11,42 |
| CLB200.50 | 50° | 93,34 | 302 | 2,73 | 11,42 |
| CLB200.55 | 55° | 104,61 | 302 | 2,12 | 8,88 |
| CLB200.60 | 60° | 120 | 302 | 2,12 | 8,88 |

**Return Type: G** = *Gas Spring* / **S** = *Spring*

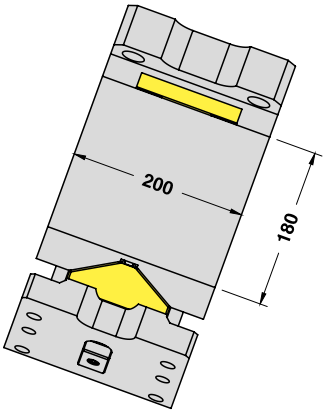
15 ORDER EXAMPLE

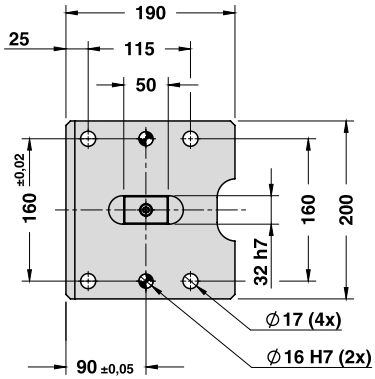
| Art. | Work Angle = 5° | Return type |
|---|---|---|
| CLB200 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CLB200.00 | 0° | 313 | 58 | 138 | 328 |
| CLB200.05 | 5° | 320,64 | 64,34 | 125 | 315 |
| CLB200.10 | 10° | 331,08 | 72,47 | 115 | 305 |
| CLB200.15 | 15° | 336,17 | 82,37 | 100 | 290 |
| CLB200.20 | 20° | 340,76 | 94 | 85 | 275 |
| CLB200.25 | 25° | 344,69 | 102,32 | 70 | 260 |
| CLB200.30 | 30° | 347,83 | 112,25 | 55 | 245 |
| CLB200.35 | 35° | 355,03 | 123,73 | 45 | 235 |
| CLB200.40 | 40° | 351,17 | 136,66 | 25 | 215 |
| CLB200.45 | 45° | 356,12 | 150,95 | 15 | 205 |
| CLB200.50 | 50° | 348,77 | 161,49 | -6 | 184 |
| CLB200.55 | 55° | 352,01 | 178,16 | -15 | 175 |
| CLB200.60 | 60° | 332,75 | 195,83 | -45 | 145 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

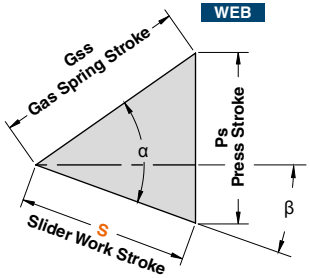
### X VIEW

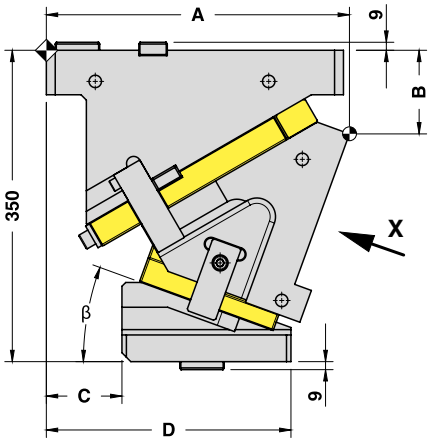


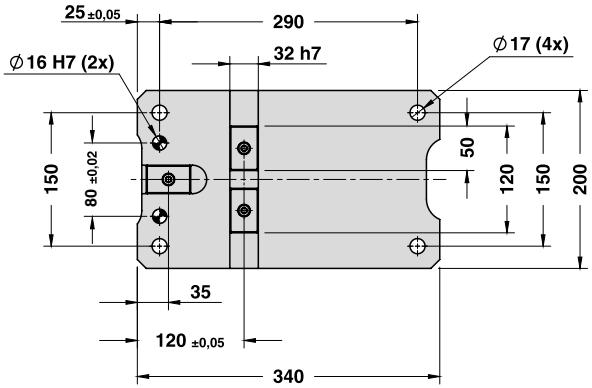

### CAM DIAGRAM

WEB

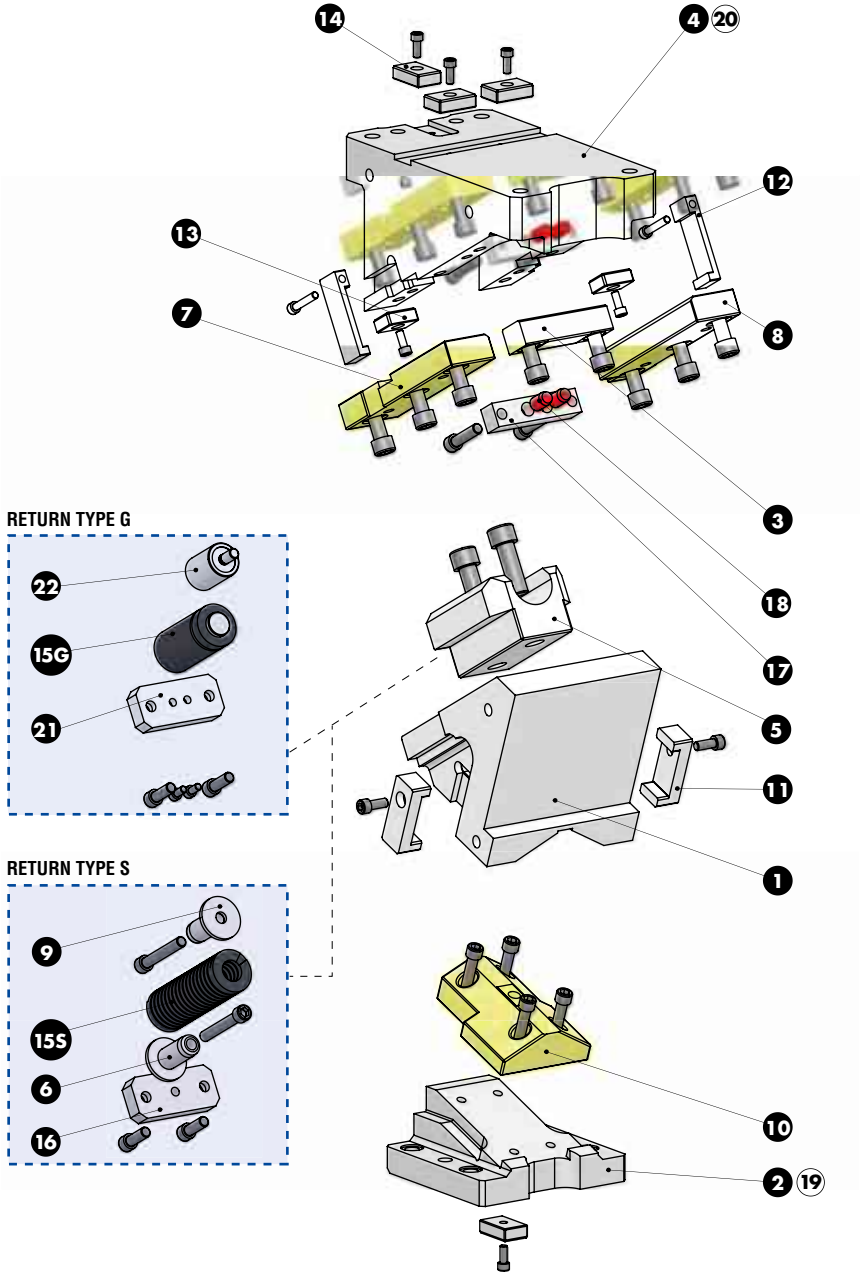



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60,00 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60,00 | 60 |
| 45° | 50° | 84,53 | 65,00 | 60 |
| 50° | 50° | 93,34 | 71,51 | 60 |
| 55° | 55° | 104,61 | 85,69 | 60 |
| 60° | 60° | 120,00 | 103,92 | 60 |

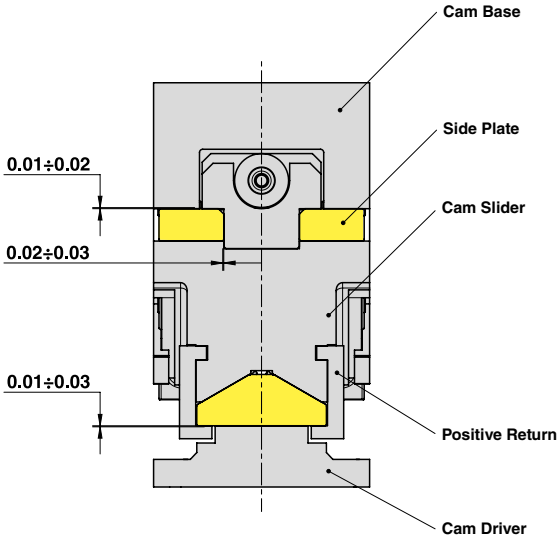


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

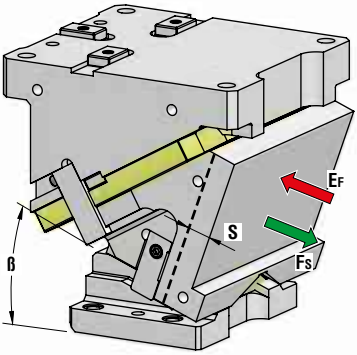
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Driver | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Base | GG-30 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 1 |
| 6 | Spring Guide Pin | CK45 | 2 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Washer | CK45 | 2 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Positive Return | 42CrMo4 Nitrided | 2 |
| 12 | Positive Return | CK45 | 2 |
| 13 | Key | CK45 | 2 |
| 14 | Key | CK45 | 4 |
| 15G | Gas Spring - Return Type G | - | 1 |
| 15S | Spring - Return Type S | - | 1 |
| 19 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 20 | Cam Base Fixing Screws M16x65 DIN 912 | - | 4 |
| 21 | Gas Spring Stopper Plate | CK45 | 1 |
| 22 | Gas Spring Reaction | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CLB300.00 | 0° | 38,57 | 411 | 5,46 | 22,83 |
| CLB300.05 | 5° | 42,59 | 411 | 5,46 | 22,83 |
| CLB300.10 | 10° | 46,67 | 411 | 5,46 | 22,83 |
| CLB300.15 | 15° | 50,88 | 411 | 5,46 | 22,83 |
| CLB300.20 | 20° | 55,30 | 411 | 5,46 | 22,83 |
| CLB300.25 | 25° | 60 | 411 | 5,46 | 22,83 |
| CLB300.30 | 30° | 65,10 | 411 | 5,46 | 22,83 |
| CLB300.35 | 35° | 70,75 | 411 | 5,46 | 22,83 |
| CLB300.40 | 40° | 77,13 | 411 | 5,46 | 22,83 |
| CLB300.45 | 45° | 84,53 | 411 | 5,46 | 22,83 |
| CLB300.50 | 50° | 93,34 | 411 | 5,46 | 22,83 |
| CLB300.55 | 55° | 104,61 | 411 | 4,25 | 17,76 |
| CLB300.60 | 60° | 120 | 411 | 4,25 | 17,76 |

**Return Type: G** = *Gas Spring* / **S** = *Spring*

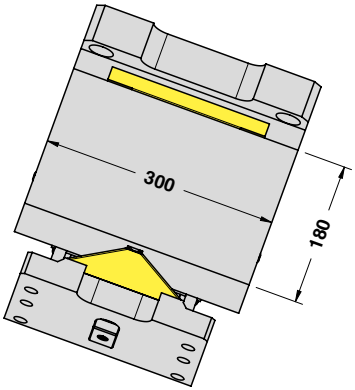
15 ORDER EXAMPLE

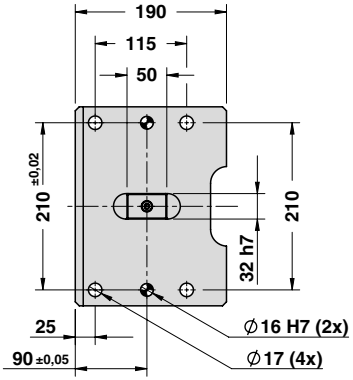
| Art. | Work Angle = 5° | Return type |
|---|---|---|
| CLB300 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CLB300.00 | 0° | 313 | 58 | 138 | 328 |
| CLB300.05 | 5° | 320,64 | 64,34 | 125 | 315 |
| CLB300.10 | 10° | 331,08 | 72,47 | 115 | 305 |
| CLB300.15 | 15° | 336,17 | 82,37 | 100 | 290 |
| CLB300.20 | 20° | 340,76 | 94 | 85 | 275 |
| CLB300.25 | 25° | 344,69 | 102,32 | 70 | 260 |
| CLB300.30 | 30° | 347,83 | 112,25 | 55 | 245 |
| CLB300.35 | 35° | 355,03 | 123,73 | 45 | 235 |
| CLB300.40 | 40° | 351,17 | 136,66 | 25 | 215 |
| CLB300.45 | 45° | 356,12 | 150,95 | 15 | 205 |
| CLB300.50 | 50° | 348,77 | 161,49 | -6 | 184 |
| CLB300.55 | 55° | 352,01 | 178,16 | -15 | 175 |
| CLB300.60 | 60° | 332,75 | 195,83 | -45 | 145 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

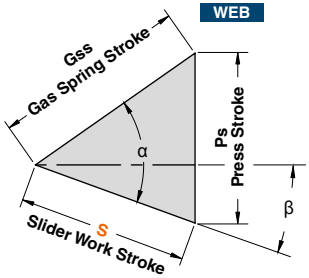
### X VIEW

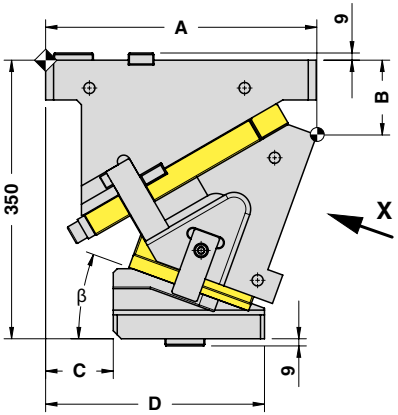


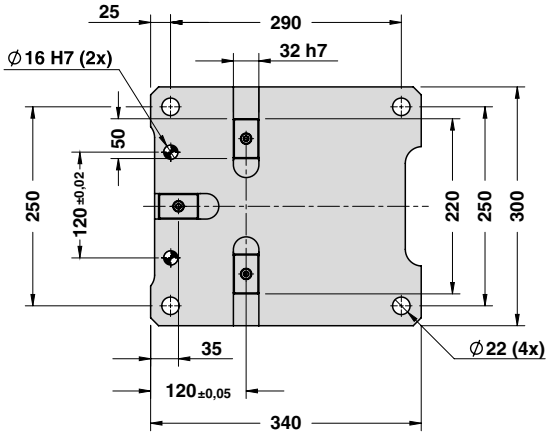

### CAM DIAGRAM

WEB

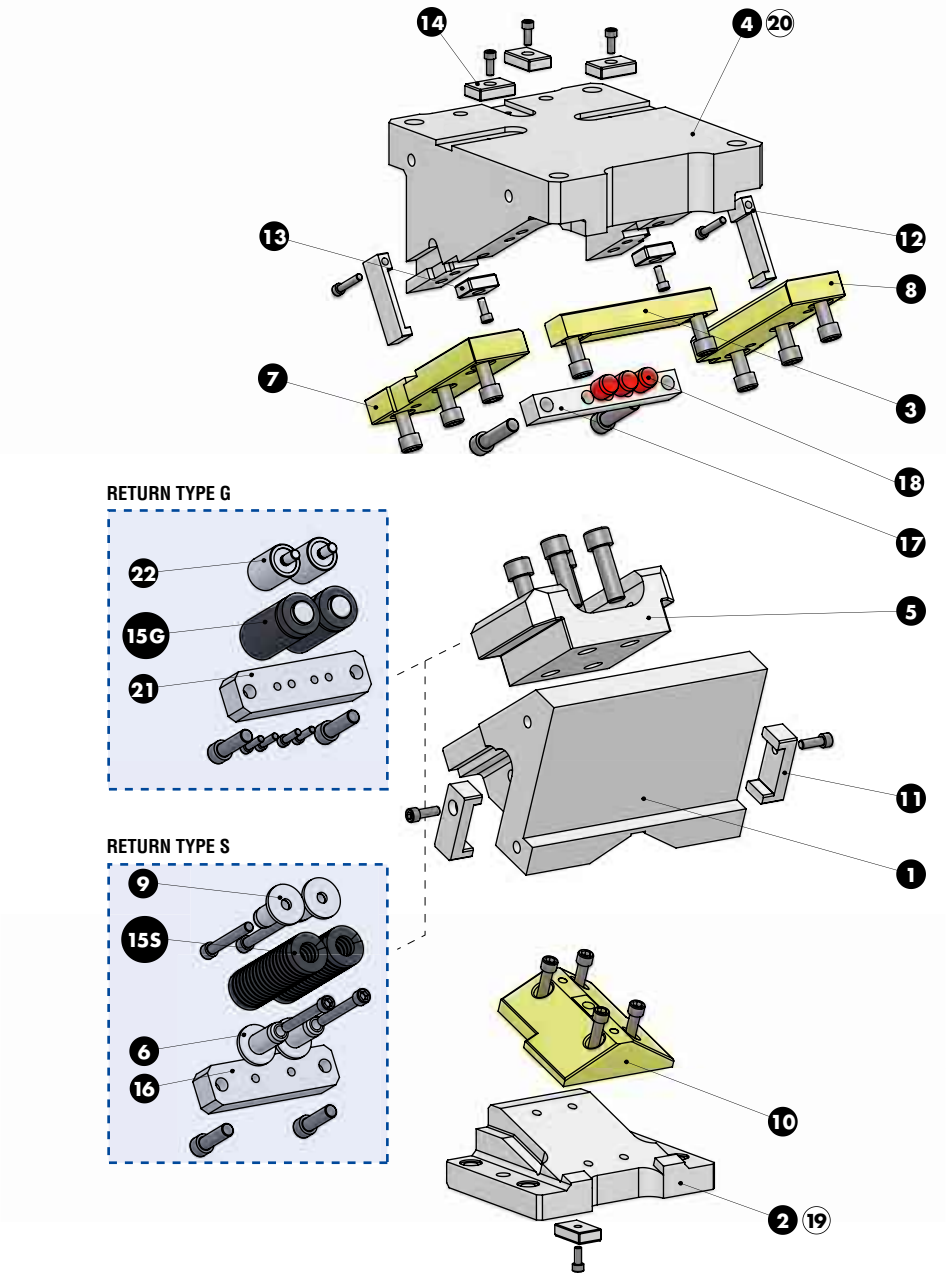



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60,00 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60,00 | 60 |
| 45° | 50° | 84,53 | 65,00 | 60 |
| 50° | 50° | 93,34 | 71,51 | 60 |
| 55° | 55° | 104,61 | 85,69 | 60 |
| 60° | 60° | 120,00 | 103,92 | 60 |

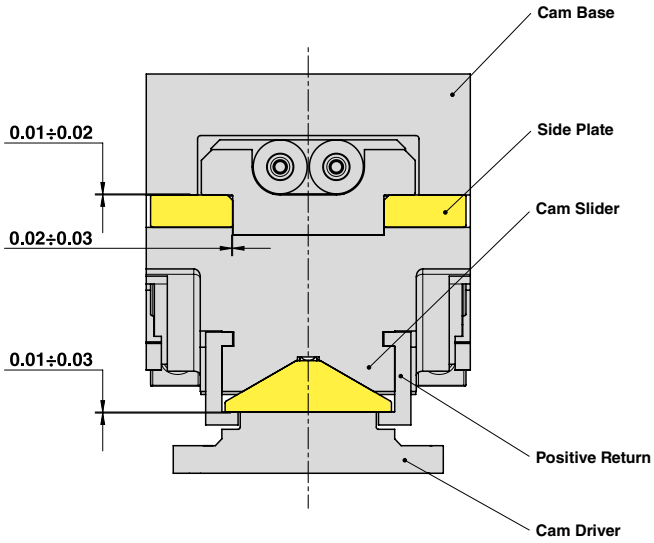


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

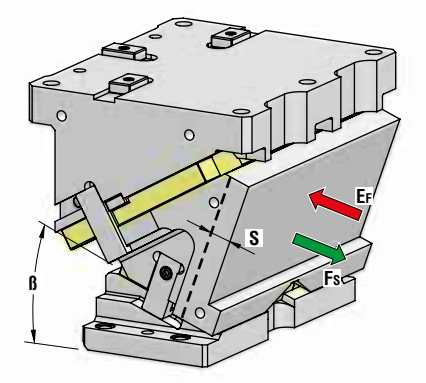
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Driver | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Base | GG-30 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 1 |
| 6 | Spring Guide Pin | CK45 | 4 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Washer | CK45 | 4 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Positive Return | 42CrMo4 Nitrided | 2 |
| 12 | Positive Return | CK45 | 2 |
| 13 | Key | CK45 | 2 |
| 14 | Key | CK45 | 4 |
| 15G | Gas Spring - Return Type G | - | 1 |
| 15S | Spring - Return Type S | - | 1 |
| 16 | Spring Stopper Plate | CK45 | 1 |
| 17 | Stopper Plate | CK45 | 1 |
| 18 | Elastomer Cap | Elastomer 92SH | 3 |
| 19 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 20 | Cam Base Fixing Screws M20x75 DIN 912 | - | 4 |
| 21 | Gas Spring Stopper Plate | CK45 | 2 |
| 22 | Gas Spring Reaction | CK45 | 2 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CLB400.00 | 0° | 38,57 | 526 | 5,46 | 22,83 |
| CLB400.05 | 5° | 42,59 | 526 | 5,46 | 22,83 |
| CLB400.10 | 10° | 46,67 | 526 | 5,46 | 22,83 |
| CLB400.15 | 15° | 50,88 | 526 | 5,46 | 22,83 |
| CLB400.20 | 20° | 55,30 | 526 | 5,46 | 22,83 |
| CLB400.25 | 25° | 60 | 526 | 5,46 | 22,83 |
| CLB400.30 | 30° | 65,10 | 526 | 5,46 | 22,83 |
| CLB400.35 | 35° | 70,75 | 526 | 5,46 | 22,83 |
| CLB400.40 | 40° | 77,13 | 526 | 5,46 | 22,83 |
| CLB400.45 | 45° | 84,53 | 526 | 5,46 | 22,83 |
| CLB400.50 | 50° | 93,34 | 526 | 5,46 | 22,83 |
| CLB400.55 | 55° | 104,61 | 526 | 4,25 | 17,76 |
| CLB400.60 | 60° | 120 | 526 | 4,25 | 17,76 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

**Return Type: G** = *Gas Spring* / **S** = *Spring*

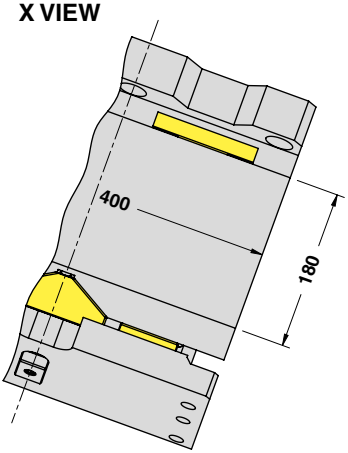
20 ORDER EXAMPLE

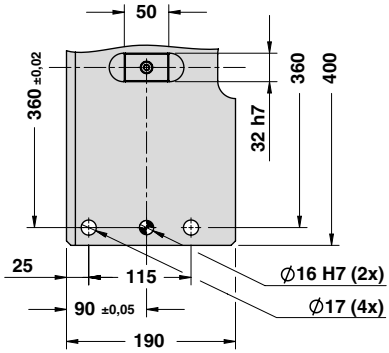
| Art. | Work Angle = 5° | Return type |
|---|---|---|
| CLB400 | 05 | S |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CLB400.00 | 0° | 313 | 58 | 138 | 328 |
| CLB400.05 | 5° | 320,64 | 64,34 | 125 | 315 |
| CLB400.10 | 10° | 331,08 | 72,47 | 115 | 305 |
| CLB400.15 | 15° | 336,17 | 82,37 | 100 | 290 |
| CLB400.20 | 20° | 340,76 | 94 | 85 | 275 |
| CLB400.25 | 25° | 344,69 | 102,32 | 70 | 260 |
| CLB400.30 | 30° | 347,83 | 112,25 | 55 | 245 |
| CLB400.35 | 35° | 355,03 | 123,73 | 45 | 235 |
| CLB400.40 | 40° | 351,17 | 136,66 | 25 | 215 |
| CLB400.45 | 45° | 356,12 | 150,95 | 15 | 205 |
| CLB400.50 | 50° | 348,77 | 161,49 | -6 | 184 |
| CLB400.55 | 55° | 352,01 | 178,16 | -15 | 175 |
| CLB400.60 | 60° | 332,75 | 195,83 | -45 | 145 |

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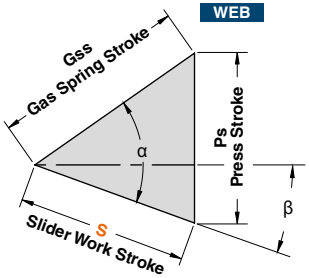
### X VIEW

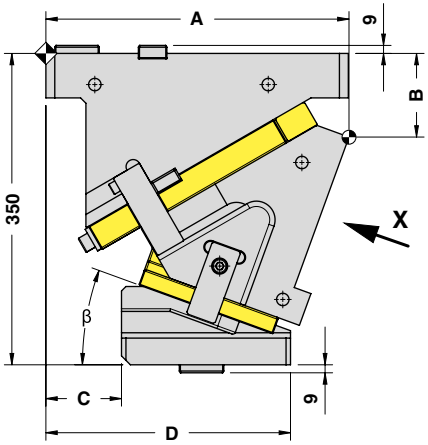


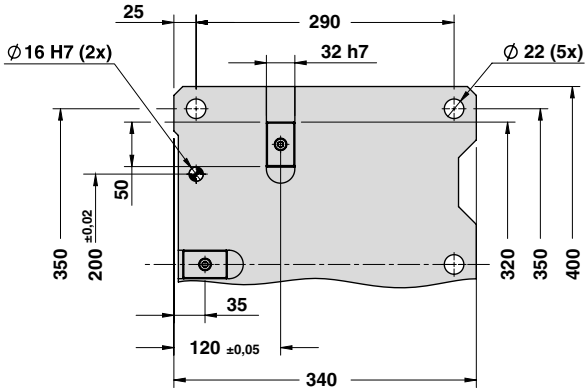

### CAM DIAGRAM

WEB

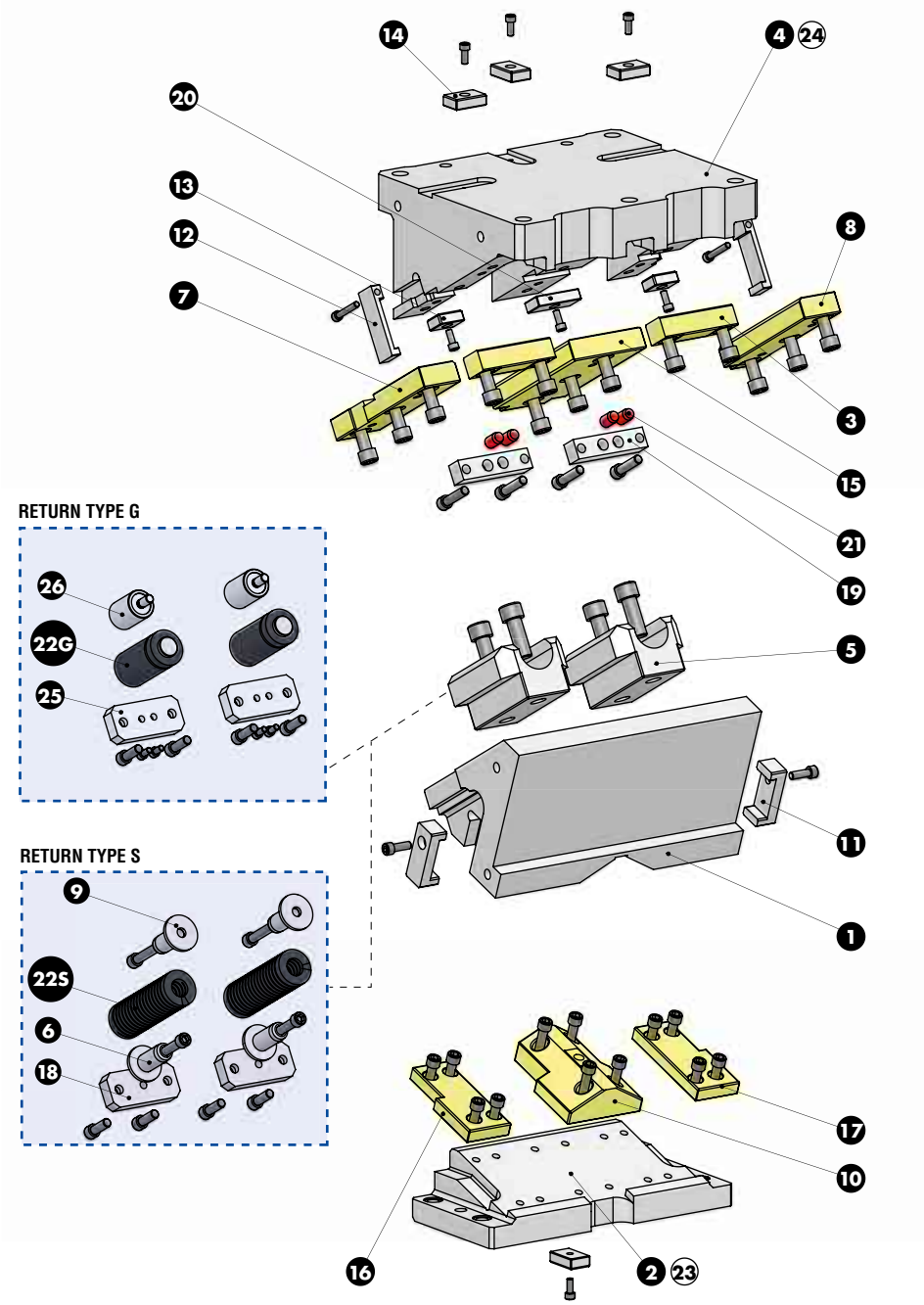



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60 | 60 |
| 45° | 50° | 84,53 | 65 | 60 |
| 50° | 50° | 93,34 | 71,51 | 60 |
| 55° | 55° | 104,61 | 85,69 | 60 |
| 60° | 60° | 120,00 | 103,92 | 60 |

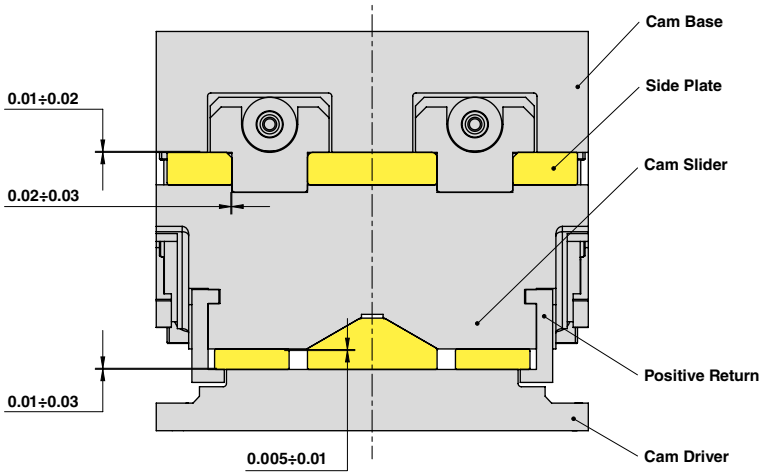


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

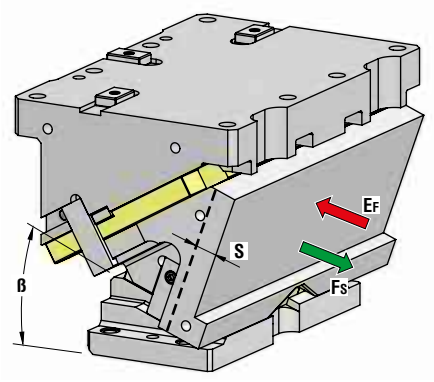
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Driver | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 4 | Cam Base | GG-30 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 2 |
| 6 | Spring Guide Pin | CK45 | 4 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Washer | CK45 | 4 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Positive Return | 42CrMo4 Nitrided | 2 |
| 12 | Positive Return | CK45 | 2 |
| 13 | Key | CK45 | 2 |
| 14 | Key | CK45 | 4 |
| 15 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 16 | Wear Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 17 | Wear Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 18 | Spring Stopper Plate | CK45 | 2 |
| 19 | Stopper Plate | CK45 | 2 |
| 20 | Key | CK45 | 1 |
| 21 | Elastomer Cap | Elastomer 92SH | 4 |
| 22G | Gas Spring - Return Type G | - | 2 |
| 22S | Spring - Return Type S | - | 2 |
| 23 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 24 | Cam Base Fixing Screws M20x75 DIN 912 | - | 5 |
| 25 | Gas Spring Stopper Plate | CK45 | 2 |
| 26 | Gas Spring Reaction | CK45 | 2 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




3D STEP WEB
3D CATIA WEB
WEB
P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CLB500.00 | 0° | 38,57 | 743 | 8,19 | 34,25 |
| CLB500.05 | 5° | 42,59 | 743 | 8,19 | 34,25 |
| CLB500.10 | 10° | 46,67 | 743 | 8,19 | 34,25 |
| CLB500.15 | 15° | 50,88 | 743 | 8,19 | 34,25 |
| CLB500.20 | 20° | 55,30 | 743 | 8,19 | 34,25 |
| CLB500.25 | 25° | 60 | 743 | 8,19 | 34,25 |
| CLB500.30 | 30° | 65,10 | 743 | 8,19 | 34,25 |
| CLB500.35 | 35° | 70,75 | 743 | 8,19 | 34,25 |
| CLB500.40 | 40° | 77,13 | 743 | 8,19 | 34,25 |
| CLB500.45 | 45° | 84,53 | 743 | 8,19 | 34,25 |
| CLB500.50 | 50° | 93,34 | 743 | 8,19 | 34,25 |
| CLB500.55 | 55° | 104,61 | 743 | 6,37 | 26,64 |
| CLB500.60 | 60° | 120 | 743 | 6,37 | 26,64 |

**Return Type: G** = *Gas Spring* / **S** = *Spring*

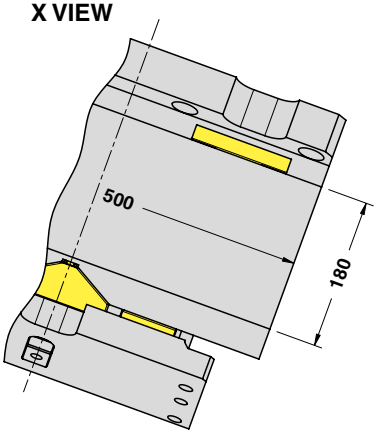
30 ORDER EXAMPLE

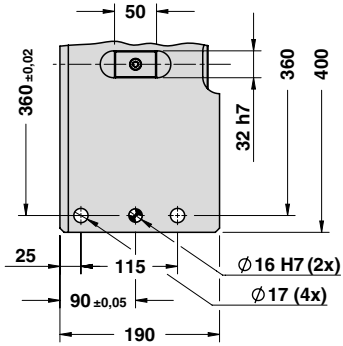
| Art. | Work Angle = 5° | Return type |
|---|---|---|
| CLB500 | 05 | G |

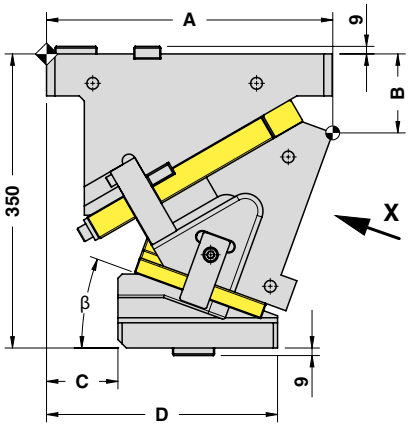
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CLB500.00 | 0° | 313 | 58 | 138 | 328 |
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| CLB500.20 | 20° | 340,76 | 94 | 85 | 275 |
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| CLB500.30 | 30° | 347,83 | 112,25 | 55 | 245 |
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| CLB500.45 | 45° | 356,12 | 150,95 | 15 | 205 |
| CLB500.50 | 50° | 348,77 | 161,49 | -6 | 184 |
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| CLB500.60 | 60° | 332,75 | 195,83 | -45 | 145 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### X VIEW

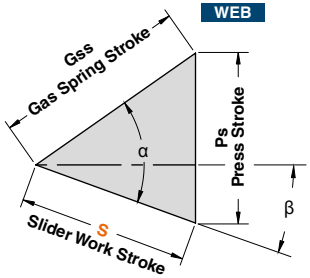


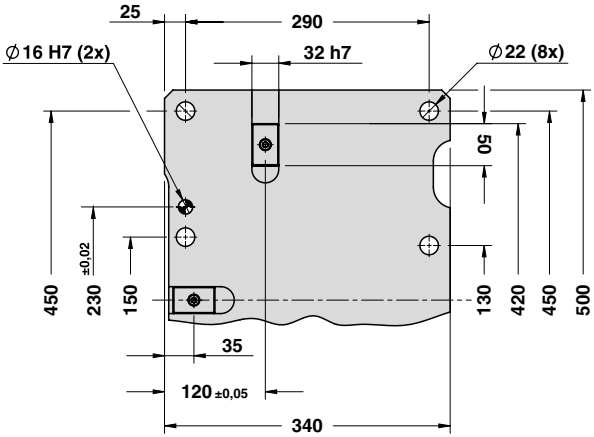




### CAM DIAGRAM

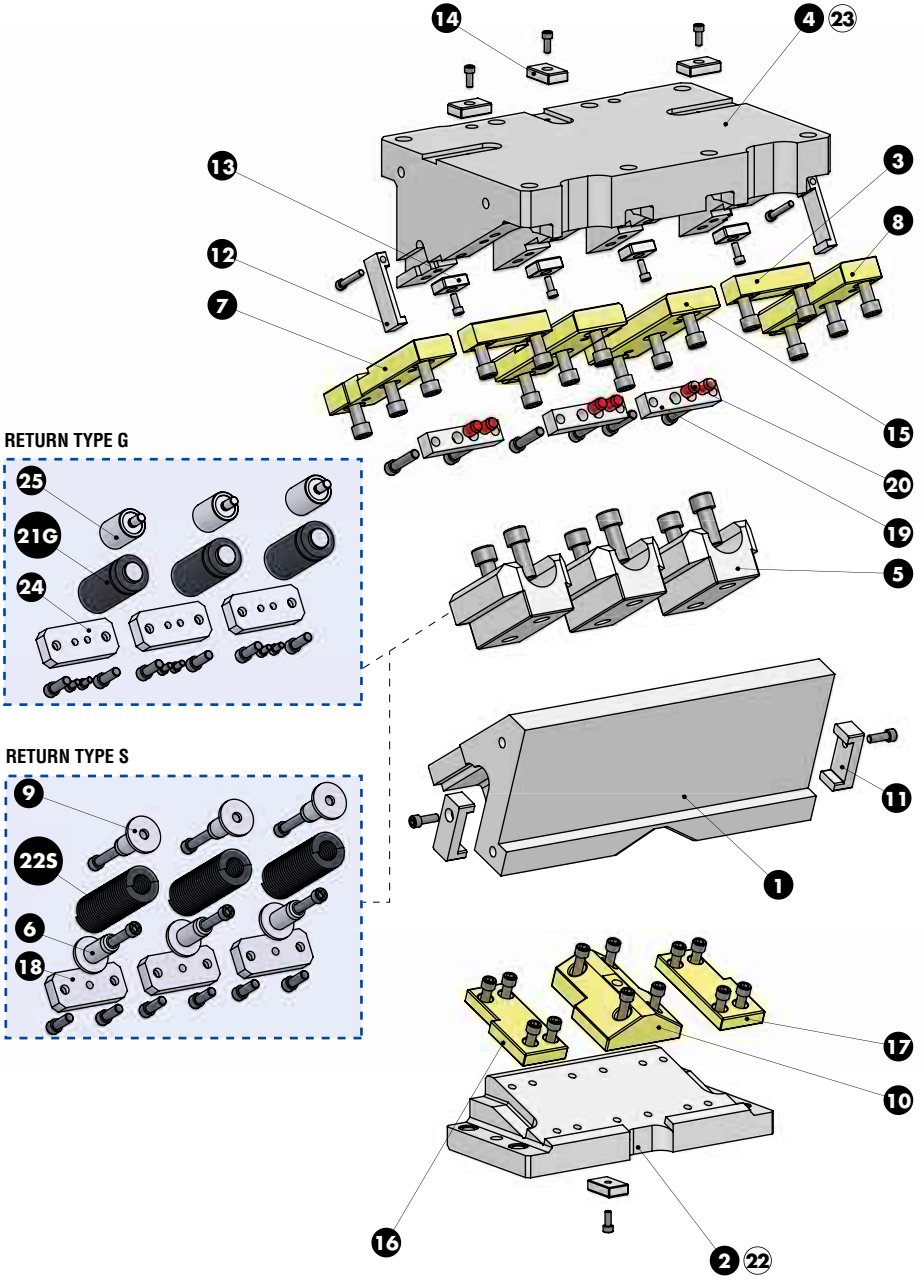
WEB




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60,00 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60,00 | 60 |
| 45° | 50° | 84,53 | 65,00 | 60 |
| 50° | 50° | 93,34 | 71,51 | 60 |
| 55° | 55° | 104,61 | 85,69 | 60 |
| 60° | 60° | 120,00 | 103,92 | 60 |

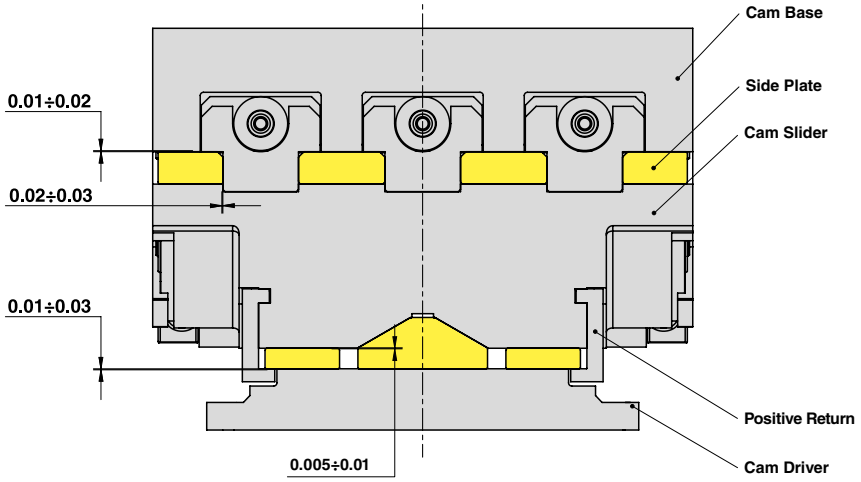


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

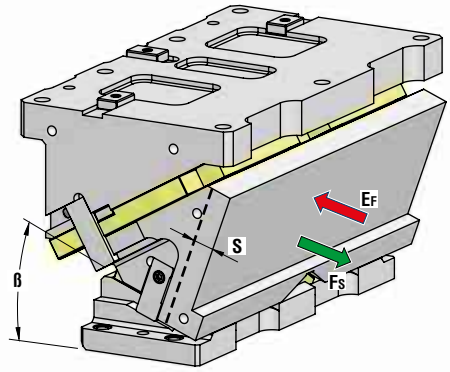
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Driver | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 4 | Cam Base | GG-30 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 3 |
| 6 | Spring Guide Pin | CK45 | 6 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Washer | CK45 | 6 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Positive Return | 42CrMo4 Nitrided | 2 |
| 12 | Positive Return | CK45 | 2 |
| 13 | Key | CK45 | 4 |
| 14 | Key | CK45 | 4 |
| 15 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 16 | Wear Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 17 | Wear Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 18 | Spring Stopper Plate | CK45 | 3 |
| 19 | Stopper Plate | CK45 | 3 |
| 20 | Elastomer Cap | Elastomer 92SH | 6 |
| 21G | Gas Spring - Return Type G | - | 3 |
| 21S | Spring - Return Type S | - | 3 |
| 22 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 23 | Cam Base Fixing Screws M20x75 DIN 912 | - | 8 |
| 24 | Gas Spring Stopper Plate | CK45 | 3 |
| 25 | Gas Spring Reaction | CK45 | 3 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.624

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CLB600.00 | 0° | 38,57 | 865 | 10,92 | 45,67 |
| CLB600.05 | 5° | 42,59 | 865 | 10,92 | 45,67 |
| CLB600.10 | 10° | 46,67 | 865 | 10,92 | 45,67 |
| CLB600.15 | 15° | 50,88 | 865 | 10,92 | 45,67 |
| CLB600.20 | 20° | 55,30 | 865 | 10,92 | 45,67 |
| CLB600.25 | 25° | 60 | 865 | 10,92 | 45,67 |
| CLB600.30 | 30° | 65,10 | 865 | 10,92 | 45,67 |
| CLB600.35 | 35° | 70,75 | 865 | 10,92 | 45,67 |
| CLB600.40 | 40° | 77,13 | 865 | 10,92 | 45,67 |
| CLB600.45 | 45° | 84,53 | 865 | 10,92 | 45,67 |
| CLB600.50 | 50° | 93,34 | 865 | 10,92 | 45,67 |
| CLB600.55 | 55° | 104,61 | 865 | 8,50 | 35,52 |
| CLB600.60 | 60° | 120 | 865 | 8,50 | 35,52 |

**Return Type: G** = *Gas Spring* / **S** = *Spring*

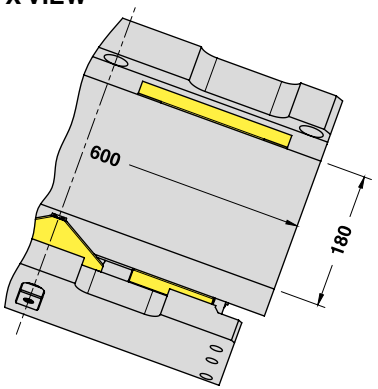
30 ORDER EXAMPLE

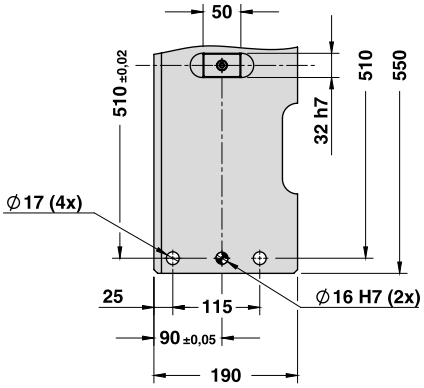
| Art. | Work Angle = 5° | Return type |
|---|---|---|
| CLB600 | 05 | G |

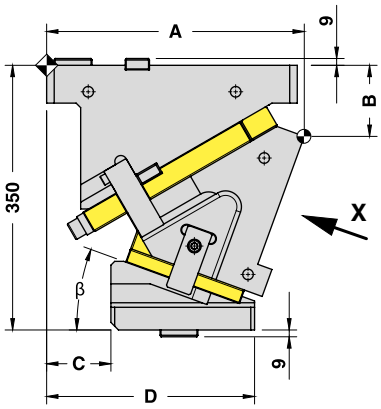
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CLB600.00 | 0° | 313 | 58 | 138 | 328 |
| CLB600.05 | 5° | 320,64 | 64,34 | 125 | 315 |
| CLB600.10 | 10° | 331,08 | 72,47 | 115 | 305 |
| CLB600.15 | 15° | 336,17 | 82,37 | 100 | 290 |
| CLB600.20 | 20° | 340,76 | 94 | 85 | 275 |
| CLB600.25 | 25° | 344,69 | 102,32 | 70 | 260 |
| CLB600.30 | 30° | 347,83 | 112,25 | 55 | 245 |
| CLB600.35 | 35° | 355,03 | 123,73 | 45 | 235 |
| CLB600.40 | 40° | 351,17 | 136,66 | 25 | 215 |
| CLB600.45 | 45° | 356,12 | 150,95 | 15 | 205 |
| CLB600.50 | 50° | 348,77 | 161,49 | -6 | 184 |
| CLB600.55 | 55° | 352,01 | 178,16 | -15 | 175 |
| CLB600.60 | 60° | 332,75 | 195,83 | -45 | 145 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### X VIEW

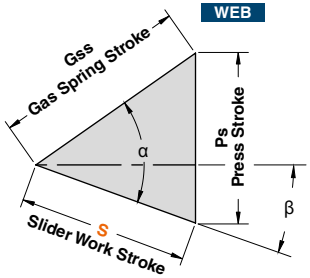


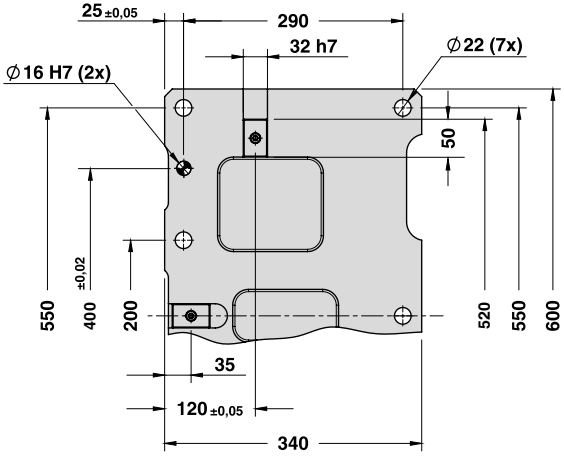




### CAM DIAGRAM

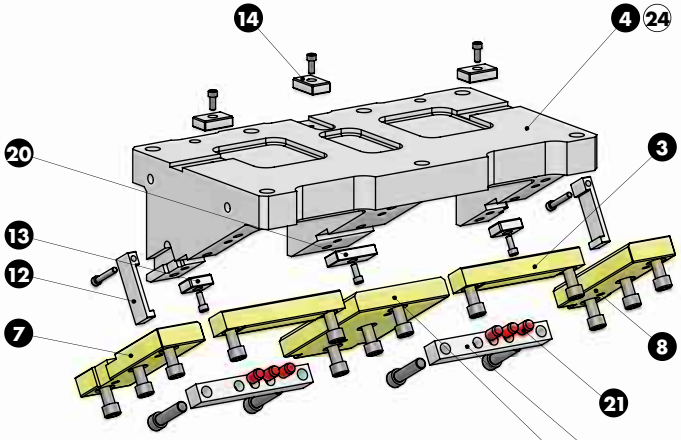
WEB



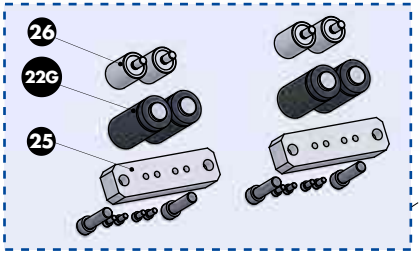

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60,00 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60,00 | 60 |
| 45° | 50° | 84,53 | 65,00 | 60 |
| 50° | 50° | 93,34 | 71,51 | 60 |
| 55° | 55° | 104,61 | 85,69 | 60 |
| 60° | 60° | 120,00 | 103,92 | 60 |

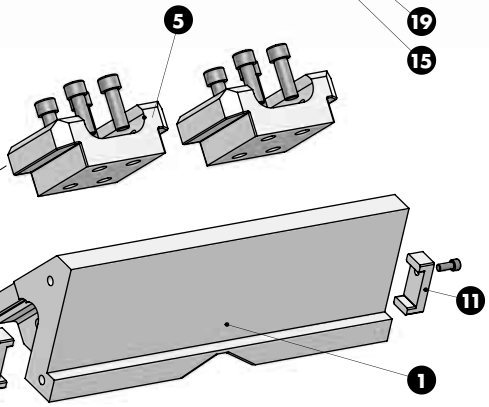


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

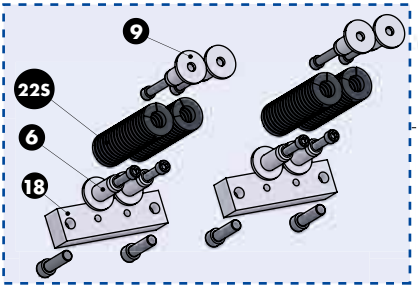


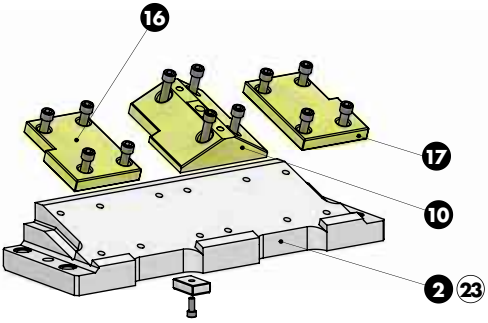

RETURN TYPE G



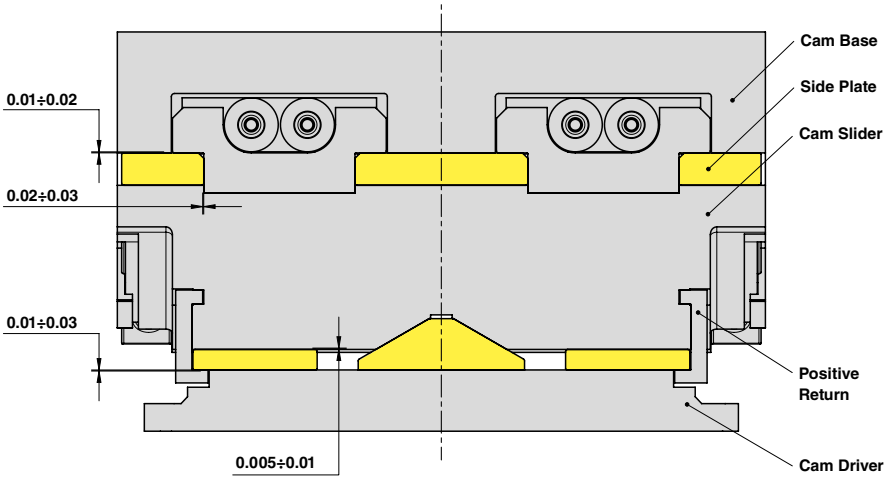

RETURN TYPE S



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-30 | 1 |
| 2 | Cam Driver | GG-30 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 4 | Cam Base | GG-30 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 2 |
| 6 | Spring Guide Pin | CK45 | 8 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Washer | CK45 | 8 |
| 10 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Positive Return | 42CrMo4 Nitrided | 2 |
| 12 | Positive Return | CK45 | 2 |
| 13 | Key | CK45 | 2 |
| 14 | Key | CK45 | 4 |
| 15 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 16 | Wear Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 17 | Wear Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 18 | Spring Stopper Plate | CK45 | 2 |
| 19 | Stopper Plate | CK45 | 2 |
| 20 | Key | CK45 | 1 |
| 21 | Elastomer Cap | Elastomer 92SH | 6 |
| 22G | Gas Spring - Return Type G | - | 4 |
| 22S | Spring - Return Type S | - | 4 |
| 23 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 24 | Cam Base Fixing Screws M20x75 DIN 912 | - | 7 |
| 25 | Gas Spring Stopper Plate | CK45 | 2 |
| 26 | Gas Spring Reaction | CK45 | 4 |



# Cam Units CHK
# Schieber CHK
# Unità a Camme CHK

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | Page number |
|---|---|---|---|---|---|---|---|
| | β | | | | Fs | Ef | |
| **CHK065** | 0°÷70° (5° steps) | 65 | 210 | 65 x "F" | 58 | 0,32÷0,85 | 820 |
| **CHK100** | 0°÷70° (10° steps) | 100 | 280 | 100 x "F" | 96 | 0,99÷2,10 | 824 |
| **CHK200** | 0°÷70° (10° steps) | 200 | 280 | 200 x "F" | 231 | 1,98÷4,21 | 828 |

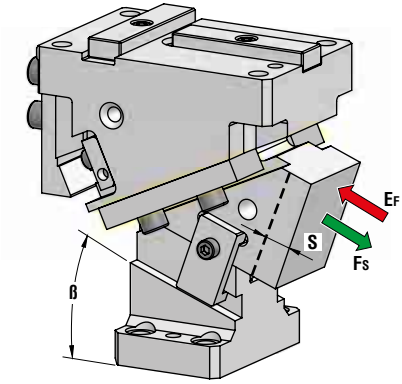






Advanced production tools

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| CHK065.00 | 0° | 26,87 | 58 | 0,79 |
| CHK065.05 | 5° | 26,97 | 58 | 0,77 |
| CHK065.10 | 10° | 31,61 | 58 | 0,85 |
| CHK065.15 | 15° | 32,23 | 58 | 0,77 |
| CHK065.20 | 20° | 33,76 | 58 | 0,85 |
| CHK065.25 | 25° | 35 | 58 | 0,77 |
| CHK065.30 | 30° | 33,46 | 58 | 0,85 |
| CHK065.35 | 35° | 35,38 | 58 | 0,77 |
| CHK065.40 | 40° | 42,91 | 58 | 0,85 |
| CHK065.45 | 45° | 46,49 | 58 | 0,77 |
| CHK065.50 | 50° | 54,45 | 58 | 0,77 |
| CHK065.55 | 55° | 43,59 | 58 | 0,62 |
| CHK065.60 | 60° | 50 | 58 | 0,54 |
| CHK065.65 | 65° | 47,32 | 58 | 0,39 |
| CHK065.70 | 70° | 58,48 | 58 | 0,32 |

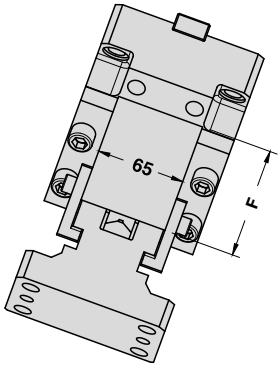
ORDER EXAMPLE

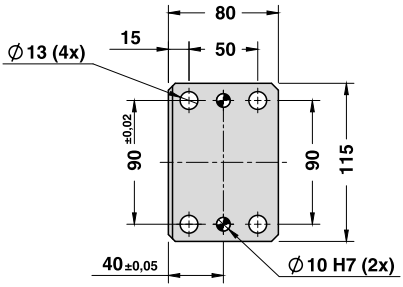
| Art. | Work Angle = 5° |
|---|---|
| CHK065 | 05 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | |
|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F |
| CHK065.00 | 0° | 185,94 | 56,57 | 75 | 155 | 55 | 80 |
| CHK065.05 | 5° | 193,01 | 56,57 | 70 | 150 | 55 | 90 |
| CHK065.10 | 10° | 196,80 | 67,58 | 70 | 150 | 40 | 80 |
| CHK065.15 | 15° | 203,77 | 68,81 | 67 | 147 | 40 | 90 |
| CHK065.20 | 20° | 198,10 | 74,31 | 60 | 140 | 10 | 80 |
| CHK065.25 | 25° | 204,75 | 76,73 | 55 | 135 | 10 | 90 |
| CHK065.30 | 30° | 193,63 | 89,52 | 50 | 130 | 10 | 80 |
| CHK065.35 | 35° | 199,76 | 93,06 | 45 | 125 | 10 | 90 |
| CHK065.40 | 40° | 188,72 | 99,62 | 40 | 120 | 15 | 80 |
| CHK065.45 | 45° | 194,13 | 104,16 | 34 | 114 | 15 | 90 |
| CHK065.50 | 50° | 190 | 110 | 30 | 110 | 10 | 90 |
| CHK065.55 | 55° | 190 | 115 | 20 | 100 | 10 | 100 |
| CHK065.60 | 60° | 190 | 115 | 20 | 100 | 10 | 100 |
| CHK065.65 | 65° | 190 | 130 | 0 | 80 | 10 | 110 |
| CHK065.70 | 70° | 190 | 130 | 0 | 80 | 10 | 110 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

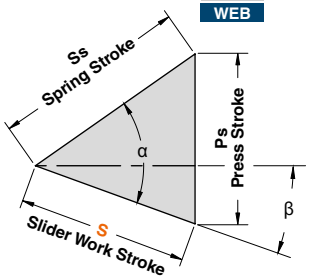
### X VIEW

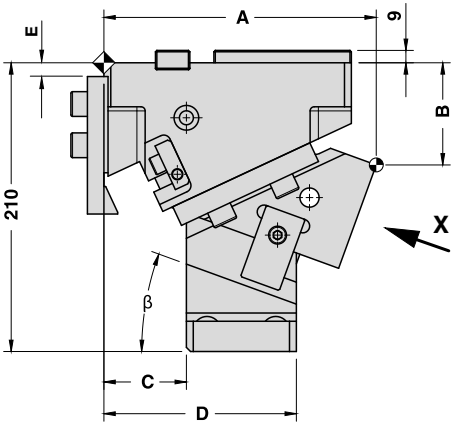


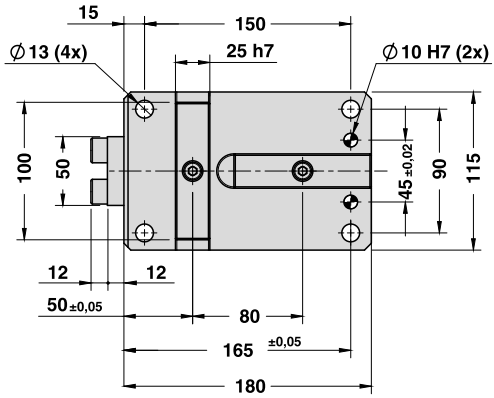

### CAM DIAGRAM

WEB

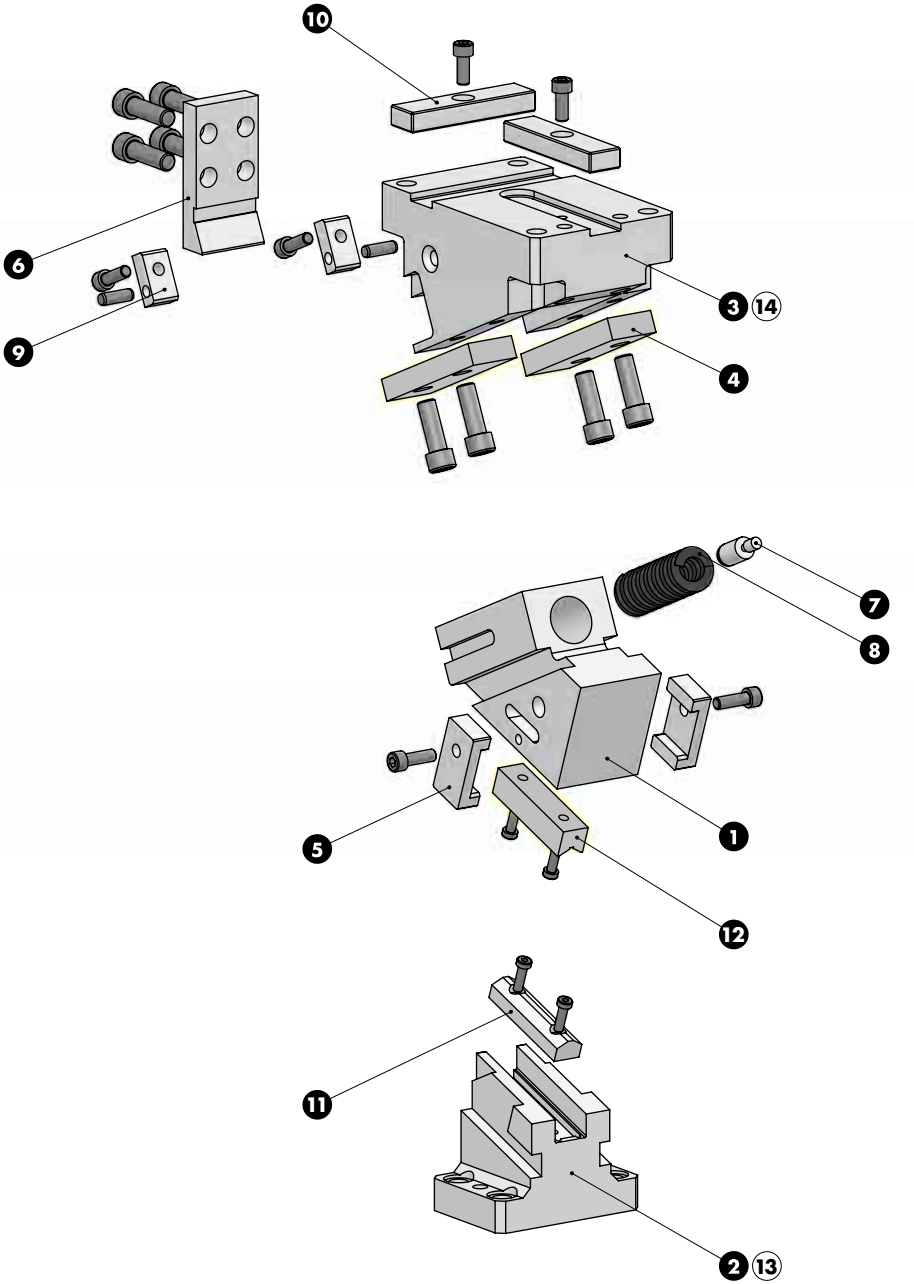



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 45° | 26,87 | 26,87 | 38 |
| 5° | 50° | 26,97 | 29,22 | 38 |
| 10° | 45° | 31,61 | 27,28 | 38 |
| 15° | 50° | 32,23 | 30,14 | 38 |
| 20° | 45° | 33,76 | 26,34 | 35 |
| 25° | 50° | 35,00 | 29,58 | 35 |
| 30° | 45° | 33,46 | 24,49 | 30 |
| 35° | 50° | 35,38 | 28,06 | 30 |
| 40° | 45° | 42,91 | 30,46 | 33 |
| 45° | 50° | 46,49 | 35,75 | 33 |
| 50° | 50° | 54,45 | 41,71 | 35 |
| 55° | 55° | 43,59 | 35,70 | 25 |
| 60° | 60° | 50,00 | 43,30 | 25 |
| 65° | 65° | 47,32 | 42,89 | 20 |
| 70° | 70° | 58,48 | 54,95 | 20 |

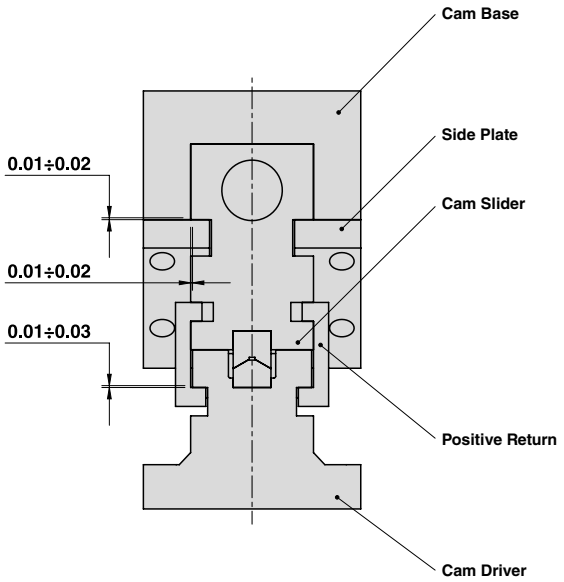


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

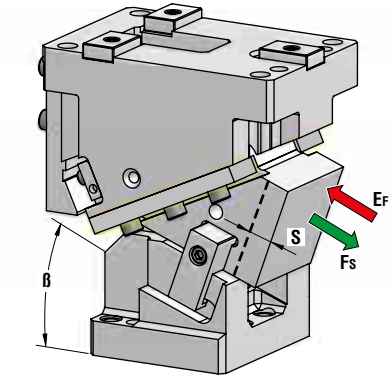





### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-25 + Graphite | 1 |
| 2 | Cam Driver | GG-25 + Graphite | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 + Graphite | 2 |
| 5 | Positive Return | CK45 | 2 |
| 6 | Stopper Plate | St44 | 1 |
| 7 | Spring Guide Pin | 34CrMo4 | 1 |
| 8 | Spring | - | 1 |
| 9 | Plate | CK45 | 2 |
| 10 | Key | CK45 | 2 |
| 11 | Male "V" Driver | CK45 | 1 |
| 12 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Cam Driver Fixing Screws M12x45 DIN 912 | - | 4 |
| 14 | Cam Base Fixing Screws M12x55 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN)) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| CHK100.00 | 0° | 28,28 | 96 | 2,10 |
| CHK100.10 | 10° | 33,27 | 96 | 2,10 |
| CHK100.20 | 20° | 30,86 | 96 | 1,86 |
| CHK100.30 | 30° | 33,46 | 96 | 2,10 |
| CHK100.40 | 40° | 39,01 | 96 | 2,10 |
| CHK100.50 | 50° | 46,67 | 96 | 1,91 |
| CHK100.60 | 60° | 60 | 96 | 1,48 |
| CHK100.70 | 70° | 58,48 | 96 | 0,99 |

STEP WEB | CATIA WEB | WEB | P.682

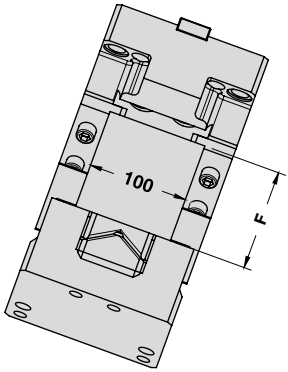
ORDER EXAMPLE

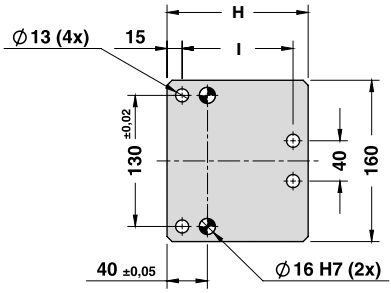
| Art. | Work Angle = 10° |
|---|---|
| CHK100 | 10 |

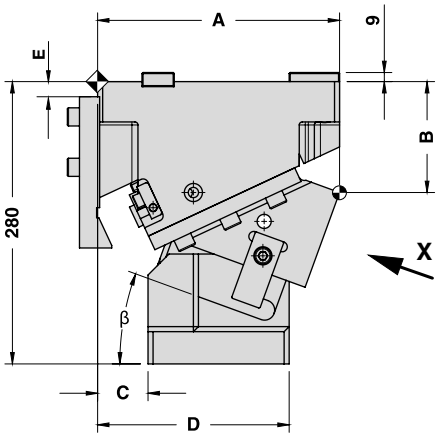
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I |
| CHK100.00 | 0° | 240 | 85 | 80 | 220 | 55 | 100 | 17 | 140 | 110 |
| CHK100.10 | 10° | 240 | 90 | 60 | 200 | 35 | 100 | 17 | 140 | 110 |
| CHK100.20 | 20° | 240 | 110 | 50 | 190 | 15 | 100 | 18 | 140 | 110 |
| CHK100.30 | 30° | 240 | 110 | 30 | 160 | 10 | 120 | 17 | 130 | 100 |
| CHK100.40 | 40° | 240 | 115 | 30 | 150 | 10 | 120 | 17 | 120 | 90 |
| CHK100.50 | 50° | 240 | 120 | 10 | 130 | 0 | 140 | 16 | 120 | 90 |
| CHK100.60 | 60° | 240 | 145 | 0 | 110 | 0 | 140 | 16 | 110 | 80 |
| CHK100.70 | 70° | 240 | 145 | 0 | 110 | 0 | 140 | 16 | 110 | 80 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### X VIEW

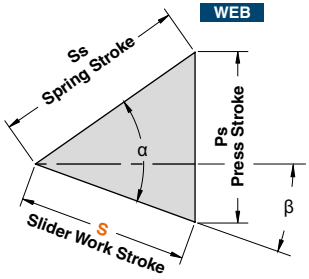


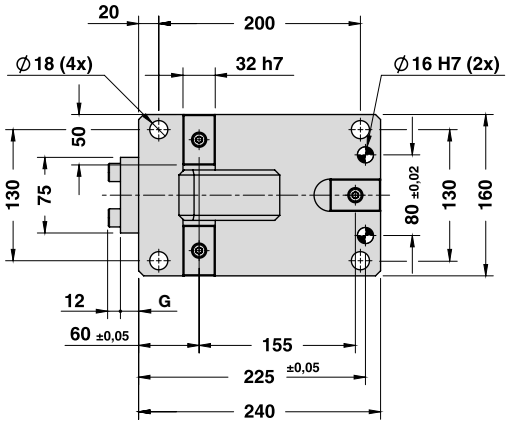




### CAM DIAGRAM

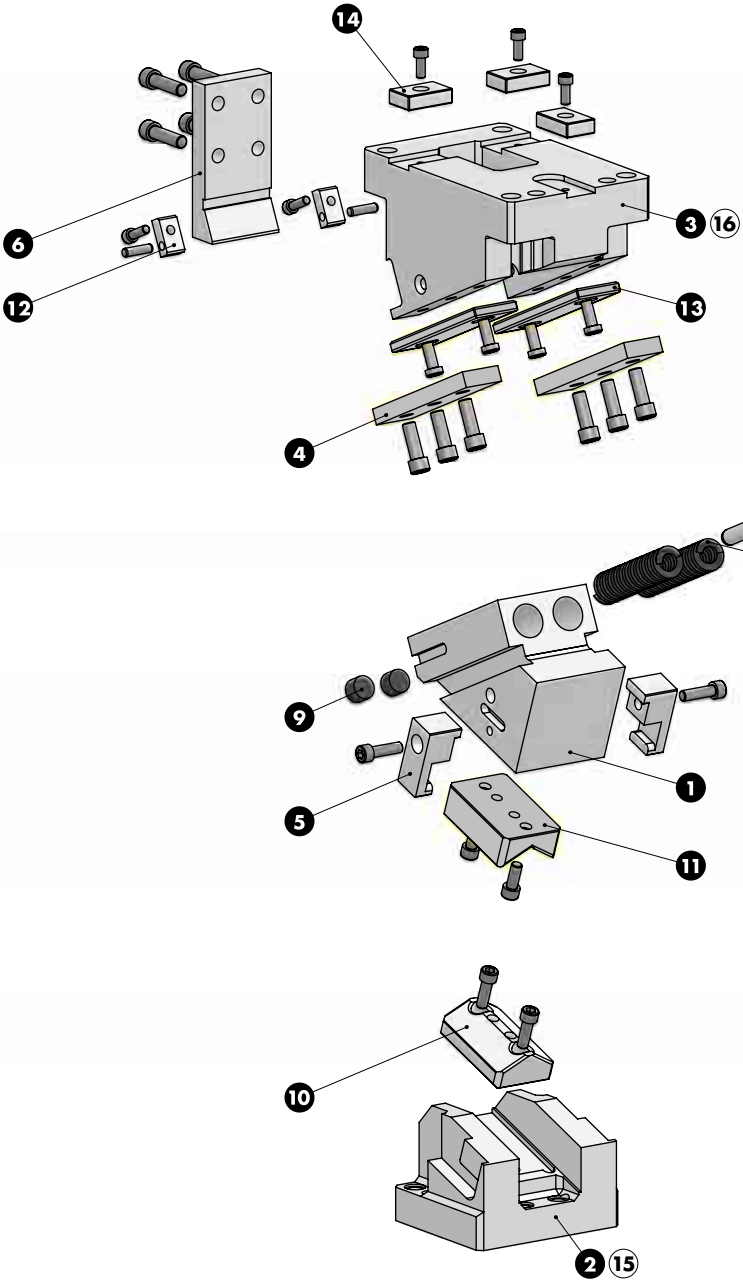
WEB




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 45° | 28,28 | 28,28 | 40 |
| 10° | 45° | 33,27 | 28,72 | 40 |
| 20° | 45° | 30,86 | 24,08 | 32 |
| 30° | 45° | 33,46 | 24,49 | 30 |
| 40° | 45° | 39,01 | 27,69 | 30 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 60° | 60° | 60,00 | 51,96 | 30 |
| 70° | 70° | 58,48 | 54,95 | 20 |

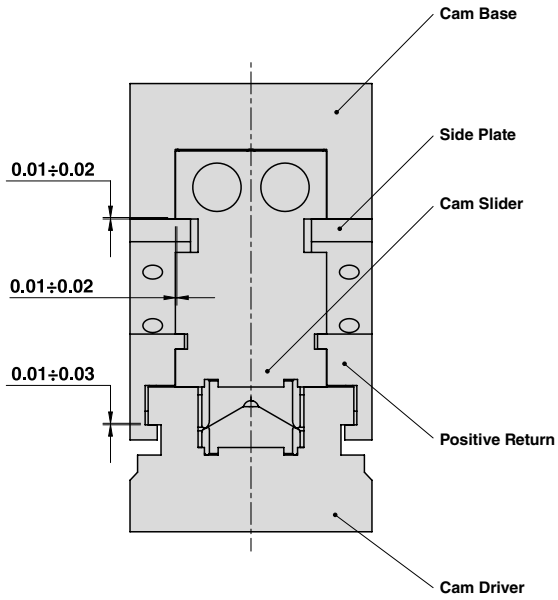


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

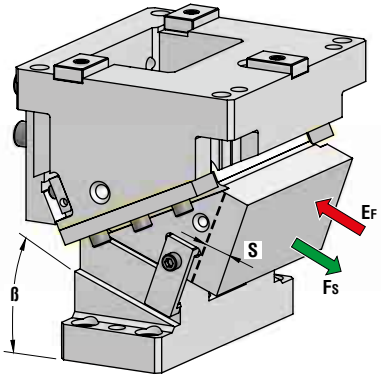





**PART LIST**

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-25 + Graphite | 1 |
| 2 | Cam Driver | GGG-25 + Graphite | 1 |
| 3 | Cam Base | GGG-25 | 1 |
| 4 | Side Plate | CK45 + Graphite | 2 |
| 5 | Positive Return | CK45 | 2 |
| 6 | Stopper Plate | St44 | 1 |
| 7 | Spring Guide Pin | 34CrMo4 | 2 |
| 8 | Spring | - | 2 |
| 9 | Elastomer Cap | Elastomer 92SH | 2 |
| 10 | Male "V" Driver | CK45 | 1 |
| 11 | Female "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 12 | Plate | CK45 | 2 |
| 13 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 14 | Key | CK45 | 3 |
| 15 | Cam Driver Fixing Screws M12x55 DIN 912 | - | 4 |
| 16 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| CHK200.00 | 0° | 28,28 | 231 | 4,21 |
| CHK200.10 | 10° | 33,27 | 231 | 4,21 |
| CHK200.20 | 20° | 30,86 | 231 | 3,71 |
| CHK200.30 | 30° | 33,46 | 231 | 4,20 |
| CHK200.40 | 40° | 39,01 | 231 | 4,20 |
| CHK200.50 | 50° | 46,67 | 231 | 3,81 |
| CHK200.60 | 60° | 60 | 231 | 2,97 |
| CHK200.70 | 70° | 58,48 | 231 | 1,98 |

3D STEP WEB
3D CATIA WEB
WEB
P.682

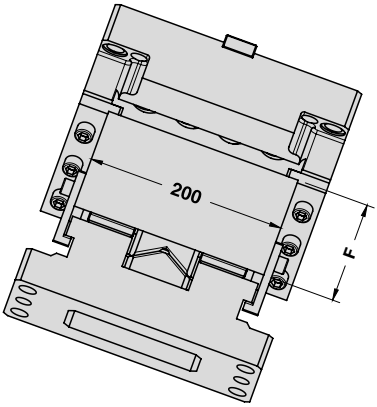
ORDER EXAMPLE

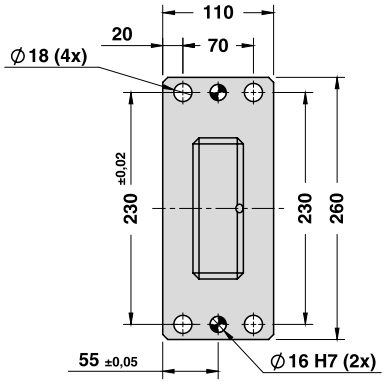
| Art. | Work Angle = 10° |
|---|---|
| CHK200 | 10 |

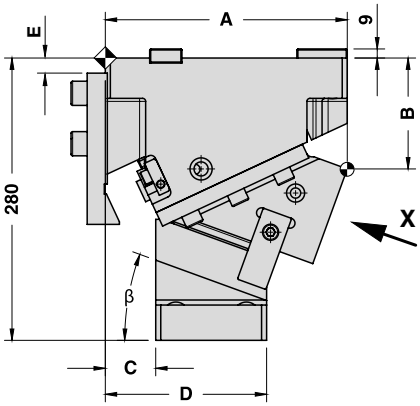
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H |
| CHK200.00 | 0° | 240 | 85 | 80 | 190 | 55 | 100 | 17 | 190 |
| CHK200.10 | 10° | 240 | 90 | 60 | 170 | 35 | 100 | 17 | 150 |
| CHK200.20 | 20° | 240 | 110 | 50 | 160 | 15 | 100 | 18 | 150 |
| CHK200.30 | 30° | 240 | 110 | 30 | 140 | 10 | 120 | 17 | 150 |
| CHK200.40 | 40° | 240 | 115 | 30 | 140 | 10 | 120 | 17 | 150 |
| CHK200.50 | 50° | 240 | 120 | 10 | 120 | 0 | 140 | 16 | 150 |
| CHK200.60 | 60° | 240 | 145 | 0 | 110 | 0 | 140 | 16 | 150 |
| CHK200.70 | 70° | 240 | 145 | 0 | 110 | 0 | 140 | 16 | 150 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### X VIEW

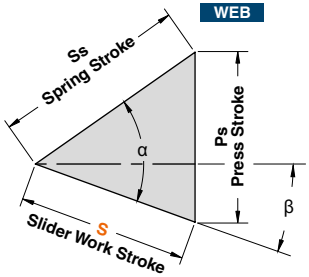


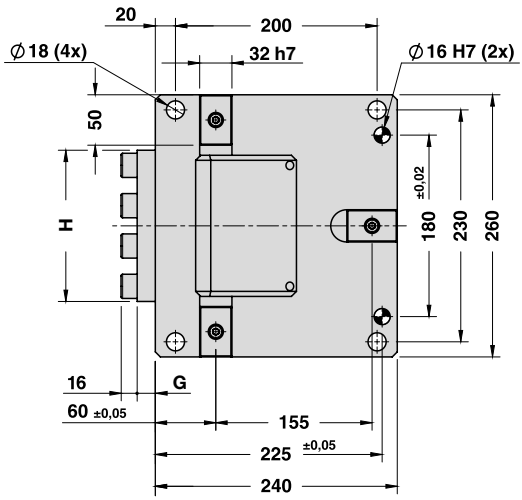




### CAM DIAGRAM

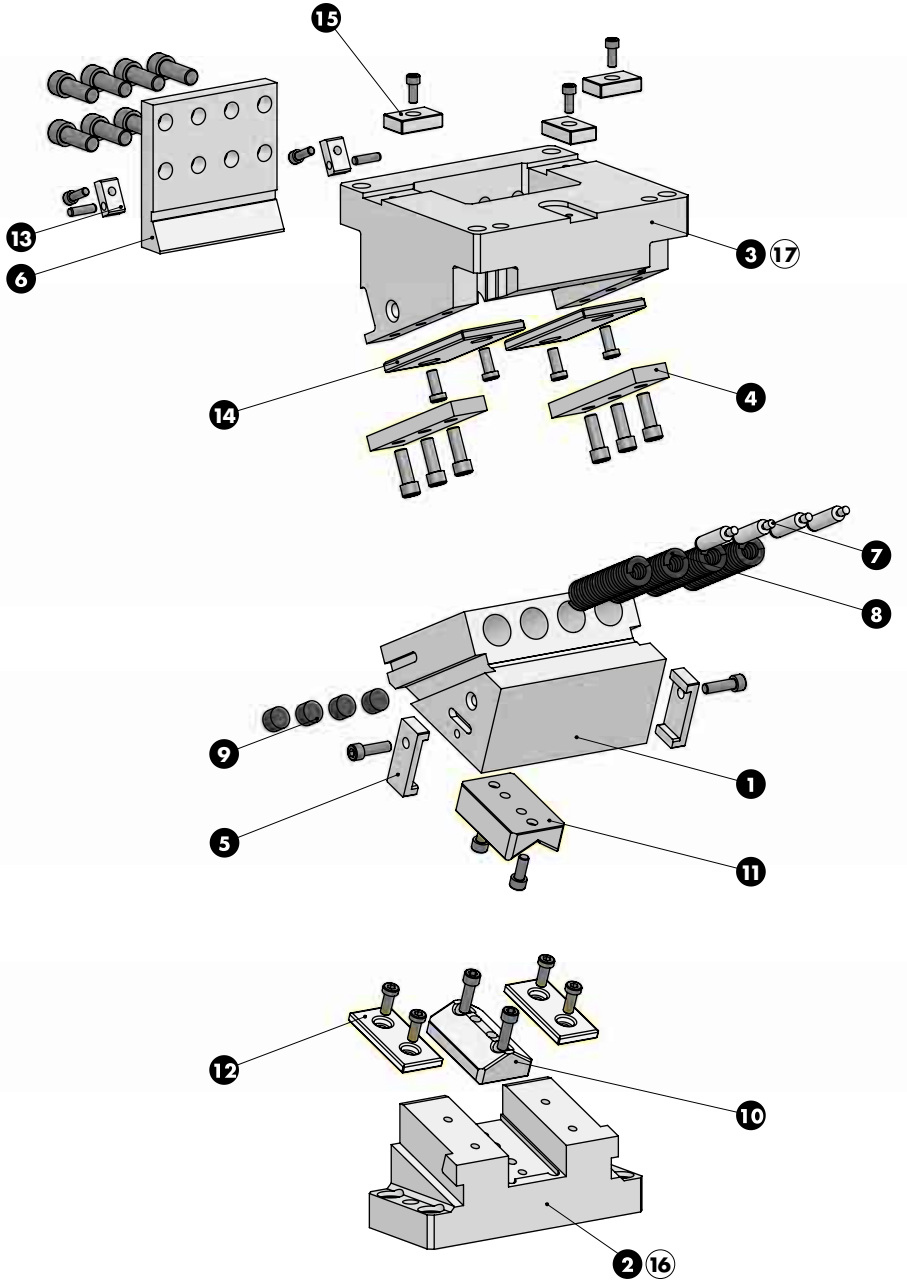
WEB




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 45° | 28,28 | 28,28 | 40 |
| 10° | 45° | 33,27 | 28,72 | 40 |
| 20° | 45° | 30,86 | 24,08 | 32 |
| 30° | 45° | 33,46 | 24,49 | 30 |
| 40° | 45° | 39,01 | 27,69 | 30 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 60° | 60° | 60,00 | 51,96 | 30 |
| 70° | 70° | 58,48 | 54,95 | 20 |

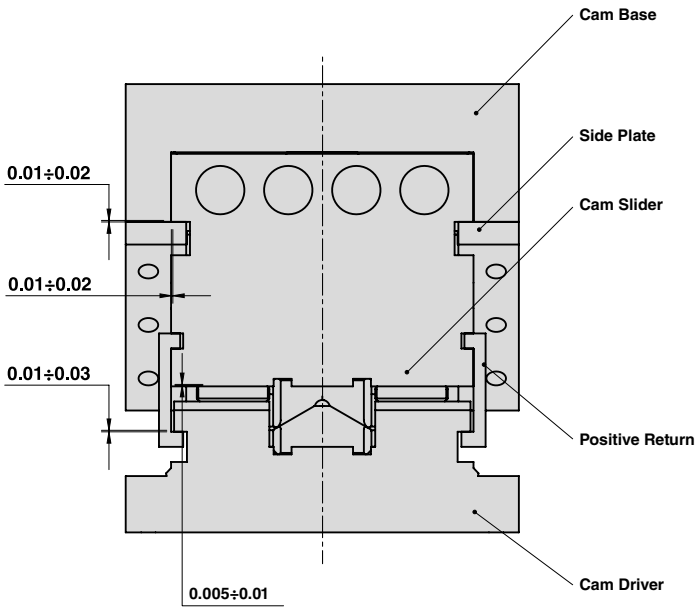


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




**PART LIST**

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-25 + Graphite | 1 |
| 2 | Cam Driver | GG-25 + Graphite | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 + Graphite | 2 |
| 5 | Positive Return | CK45 | 2 |
| 6 | Stopper Plate | St44 | 1 |
| 7 | Spring Guide Pin | 34CrMo4 | 4 |
| 8 | Spring | - | 4 |
| 9 | Elastomer Cap | Elastomer 92SH | 4 |
| 10 | Male "V" Driver | CK45 | 1 |
| 11 | Female "V" Driver | CuZn25Al5+ Graphite - HB > 190 | 1 |
| 12 | Wear Plate | CuZn25Al5+ Graphite - HB > 190 | 2 |
| 13 | Plate | CK45 | 2 |
| 14 | Wear Plate | CuZn25Al5 - HB > 190 | 2 |
| 15 | Key | CK45 | 3 |
| 16 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 17 | Cam Base Fixing Screws M16x70 DIN 912 | - | 4 |



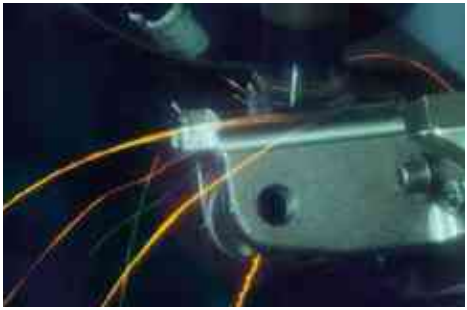
# Cam Units CHR
# Schieber CHR
# Unità a Camme CHR

OMCR®
STANDARD DIE COMPONENTS

INDEX

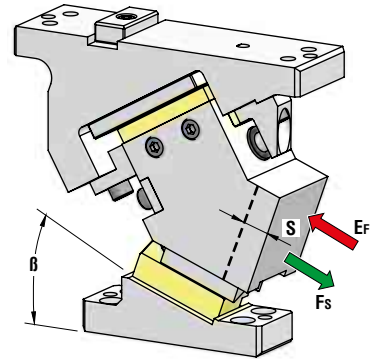
| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | | Page number |
|---|---|---|---|---|---|---|---|---|
| | | | | | | $E_F$ | | |
| | β | | | | $F_S$ | Spring | Gas Spring | |
| **CHR070** | 0°÷60° (5° steps) | 70 | 225 | 70x75 | 90 | 0,25÷0,38 | 1,30÷1,74 | 834 |
| **CHR080** | 0°÷60° (5° steps) | 80 | 275 | 80x75 | 153 | 0,56÷0,87 | 1,48÷2,08 | 838 |
| **CHR165** | 0°÷60° (5° steps) | 165 | 300 | 165x120 | 340 | 1,16÷1,49 | 1,91÷2,46 | 842 |
| **CHR200** | 0°÷60° (5° steps) | 200 | 300 | 200x120 | 408 | 1,82÷2,35 | 3,75÷4,82 | 846 |
| **CHR300** | 0°÷60° (5° steps) | 300 | 375 | 300x160 | 521 | 3,89÷5,09 | 6,85÷9,40 | 850 |
| **CHR400** | 0°÷60° (5° steps) | 400 | 375 | 400x160 | 521 | 3,89÷5,09 | 6,85÷9,40 | 854 |







## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CHR070.00 | 0° | 19,28 | 90 | 0,38 | 1,74 |
| CHR070.05 | 5° | 21,29 | 90 | 0,38 | 1,74 |
| CHR070.10 | 10° | 23,34 | 90 | 0,38 | 1,74 |
| CHR070.15 | 15° | 25,44 | 90 | 0,38 | 1,74 |
| CHR070.20 | 20° | 27,65 | 90 | 0,38 | 1,74 |
| CHR070.25 | 25° | 30 | 90 | 0,38 | 1,74 |
| CHR070.30 | 30° | 32,55 | 90 | 0,38 | 1,74 |
| CHR070.35 | 35° | 35,38 | 90 | 0,38 | 1,74 |
| CHR070.40 | 40° | 38,57 | 90 | 0,38 | 1,74 |
| CHR070.45 | 45° | 42,26 | 90 | 0,38 | 1,74 |
| CHR070.50 | 50° | 46,67 | 90 | 0,38 | 1,74 |
| CHR070.55 | 55° | 43,59 | 90 | 0,28 | 1,49 |
| CHR070.60 | 60° | 50 | 90 | 0,25 | 1,30 |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

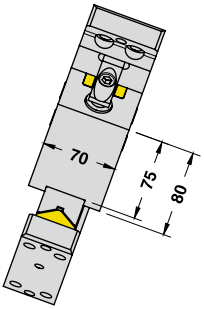
ORDER EXAMPLE

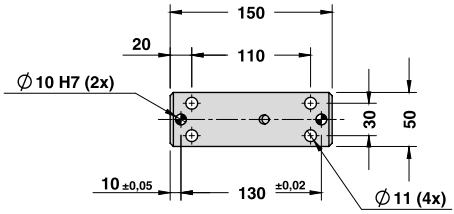
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHR070 | 05 | G |

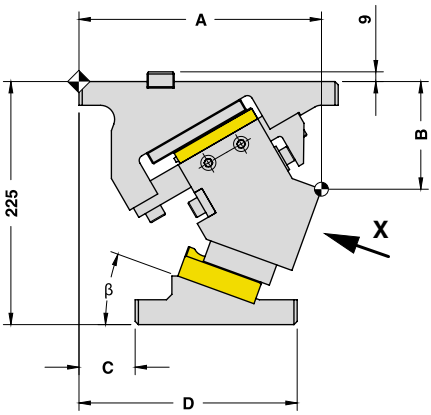
| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHR070.00 | 0° | 237,37 | 85 | 102 | 252 | 81,37 |
| CHR070.05 | 5° | 234,87 | 86,28 | 92 | 242 | 81,53 |
| CHR070.10 | 10° | 232,82 | 88,76 | 81 | 231 | 80,24 |
| CHR070.15 | 15° | 217,54 | 96,59 | 57 | 207 | 66,67 |
| CHR070.20 | 20° | 224,52 | 99,67 | 52 | 202 | 75,62 |
| CHR070.25 | 25° | 223,46 | 105,45 | 42 | 192 | 75,76 |
| CHR070.30 | 30° | 211,54 | 112,99 | 30 | 180 | 66,03 |
| CHR070.35 | 35° | 210,68 | 117,20 | 17 | 167 | 66,86 |
| CHR070.40 | 40° | 204,84 | 125,07 | 4 | 154 | 63,69 |
| CHR070.45 | 45° | 198,15 | 131,28 | -2 | 148 | 58,40 |
| CHR070.50 | 50° | 190,95 | 135,15 | -21 | 129 | 49,59 |
| CHR070.55 | 55° | 190,51 | 146 | -23 | 127 | 56,02 |
| CHR070.60 | 60° | 185,81 | 155,86 | -35 | 115 | 56,99 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### X VIEW

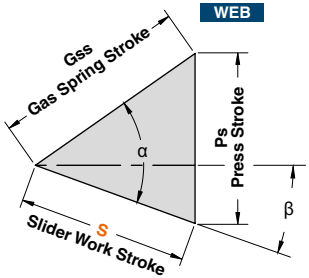


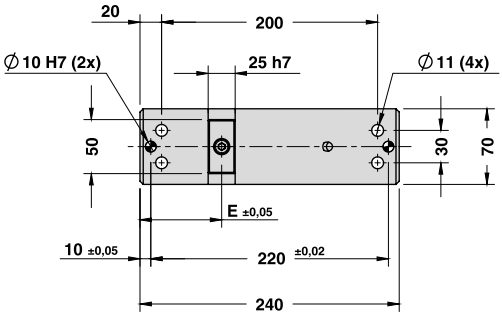




### CAM DIAGRAM

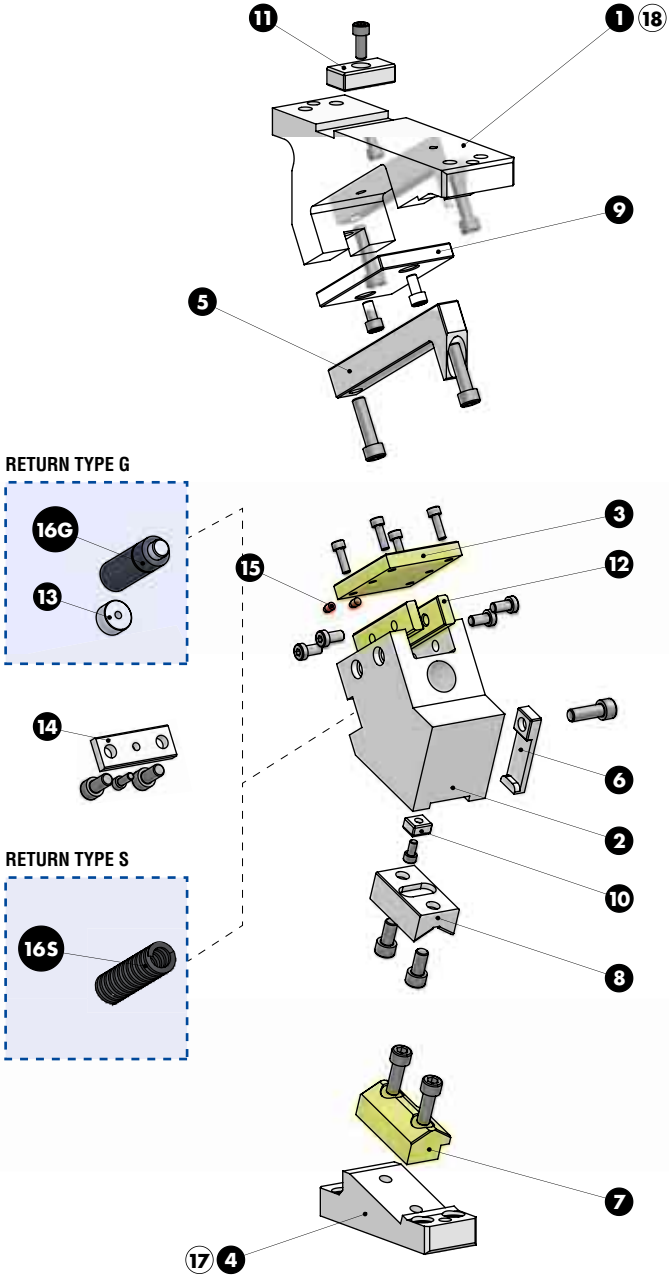
WEB




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 19,28 | 22,98 | 30 |
| 5° | 50° | 21,29 | 23,07 | 30 |
| 10° | 50° | 23,34 | 23,34 | 30 |
| 15° | 50° | 25,44 | 23,79 | 30 |
| 20° | 50° | 27,65 | 24,46 | 30 |
| 25° | 50° | 30,00 | 25,36 | 30 |
| 30° | 50° | 32,55 | 26,54 | 30 |
| 35° | 50° | 35,38 | 28,06 | 30 |
| 40° | 50° | 38,57 | 30,00 | 30 |
| 45° | 50° | 42,26 | 32,50 | 30 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 55° | 55° | 43,59 | 35,70 | 25 |
| 60° | 60° | 50,00 | 43,30 | 25 |

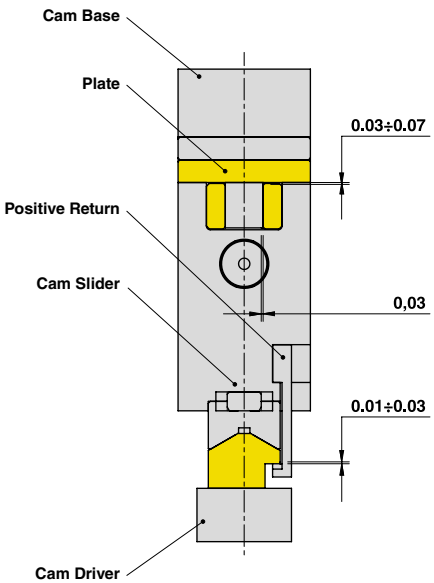


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

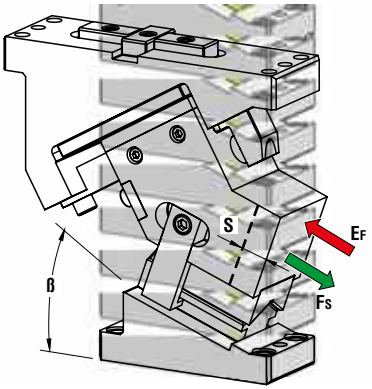
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GGG-50 | 1 |
| 2 | Cam Slider | GGG-50 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | GG-25 | 1 |
| 5 | Guide Bar | CK45 | 1 |
| 6 | Positive Return | CK45 | 1 |
| 7 | Male “V” Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Female “V” Driver | CK45 | 1 |
| 9 | Wear Plate | CK45 | 1 |
| 10 | Key | CK45 | 1 |
| 11 | Key | CK45 | 1 |
| 12 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 13 | Spring Spacer | CK45 | 1 |
| 14 | Spring Stopper Plate | CK45 | 1 |
| 15 | Elastomer Cap | Elastomer 92SH | 2 |
| 16G | Gas Spring - Return Type G | - | 1 |
| 16S | Spring - Return Type S | - | 1 |
| 17 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 18 | Cam Base Fixing Screws M12x50 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | Fs | Spring | Gas Spring |
| CHR080.00 | 0° | 32,14 | 153 | 0,87 | 2,08 |
| CHR080.05 | 5° | 35,49 | 153 | 0,87 | 2,08 |
| CHR080.10 | 10° | 38,89 | 153 | 0,87 | 2,08 |
| CHR080.15 | 15° | 42,40 | 153 | 0,87 | 2,08 |
| CHR080.20 | 20° | 46,08 | 153 | 0,87 | 2,08 |
| CHR080.25 | 25° | 50 | 153 | 0,87 | 2,08 |
| CHR080.30 | 30° | 54,25 | 153 | 0,87 | 2,08 |
| CHR080.35 | 35° | 58,96 | 153 | 0,87 | 2,08 |
| CHR080.40 | 40° | 64,28 | 153 | 0,87 | 2,08 |
| CHR080.45 | 45° | 70,44 | 153 | 0,87 | 2,08 |
| CHR080.50 | 50° | 77,79 | 153 | 0,87 | 2,08 |
| CHR080.55 | 55° | 78,46 | 153 | 0,71 | 1,77 |
| CHR080.60 | 60° | 80 | 153 | 0,56 | 1,48 |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

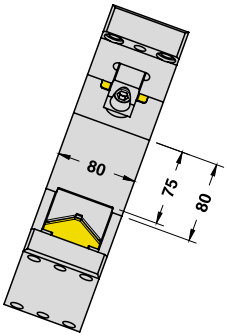
ORDER EXAMPLE

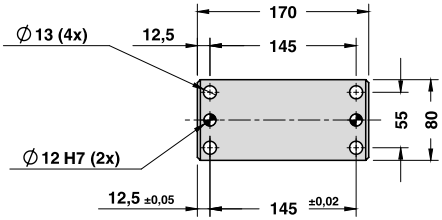
| Art. | Work Angle = 5° | Return Type* |
|---|---|---|
| CHR080 | 05 | G |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CHR080.00 | 0° | 280 | 110 | 135 | 305 | 99,50 |
| CHR080.05 | 5° | 281,31 | 115,93 | 125 | 295 | 116,50 |
| CHR080.10 | 10° | 277,50 | 117,84 | 110 | 280 | 115,87 |
| CHR080.15 | 15° | 280,48 | 120,72 | 105 | 275 | 123,20 |
| CHR080.20 | 20° | 276,16 | 124,55 | 95 | 265 | 121,57 |
| CHR080.25 | 25° | 271,47 | 129,29 | 80 | 250 | 121,07 |
| CHR080.30 | 30° | 264,33 | 134,92 | 65 | 235 | 116,77 |
| CHR080.35 | 35° | 260,66 | 141,38 | 55 | 225 | 116,26 |
| CHR080.40 | 40° | 252,32 | 147,76 | 35 | 205 | 110,84 |
| CHR080.45 | 45° | 247,46 | 156,61 | 30 | 200 | 109,54 |
| CHR080.50 | 50° | 237,80 | 165,27 | 15 | 185 | 103,62 |
| CHR080.55 | 55° | 231,36 | 174,53 | 0 | 170 | 117,12 |
| CHR080.60 | 60° | 233,95 | 185,89 | 0 | 170 | 116,03 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

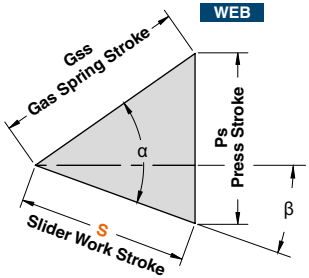
## X VIEW

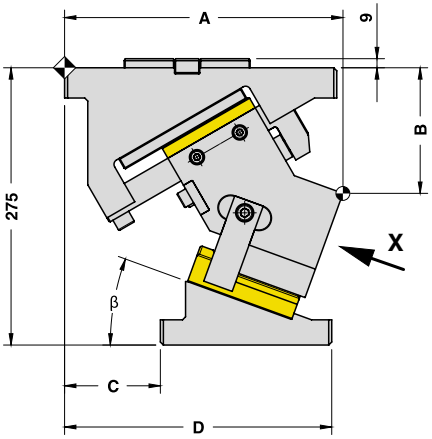


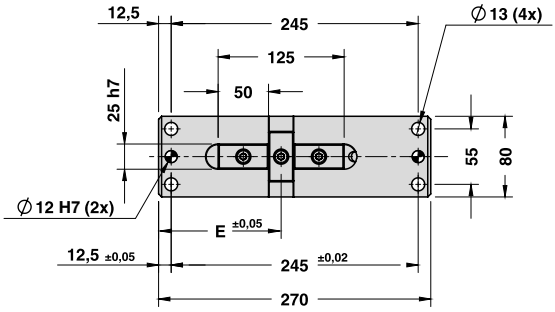

## CAM DIAGRAM

WEB

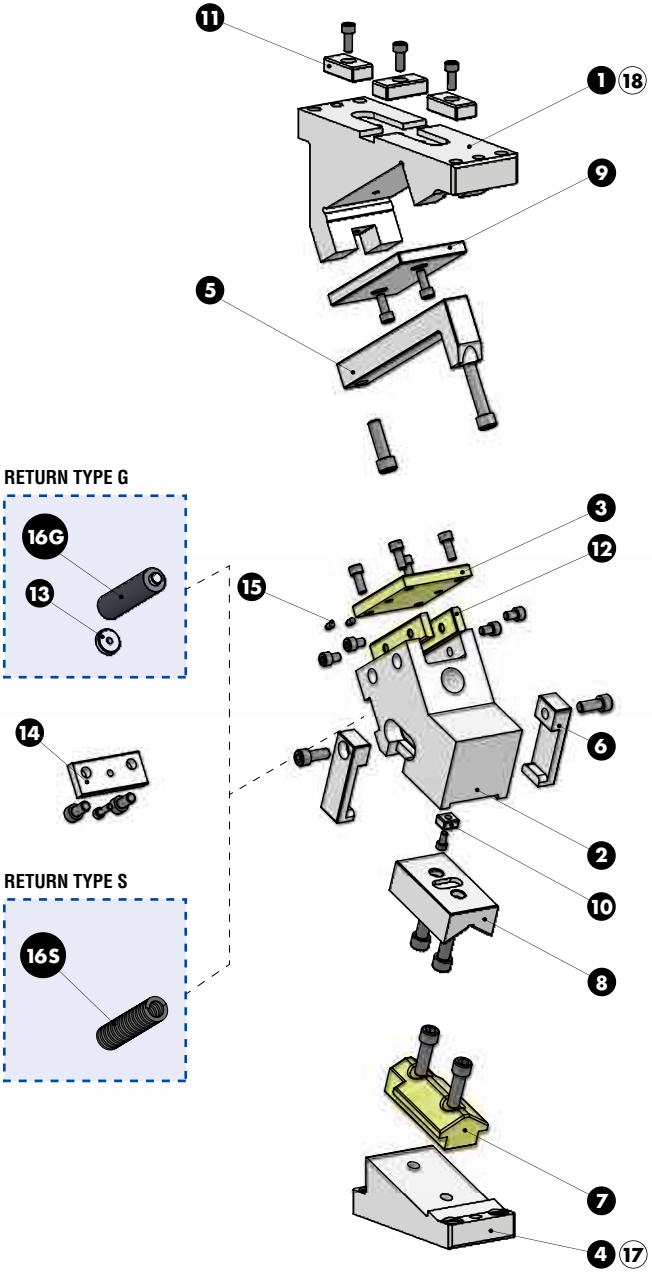



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 50° | 42,40 | 39,65 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 50° | 50,00 | 42,26 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 50° | 58,96 | 46,76 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 50° | 70,44 | 54,17 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 78,46 | 64,27 | 45 |
| 60° | 60° | 80,00 | 69,28 | 40 |

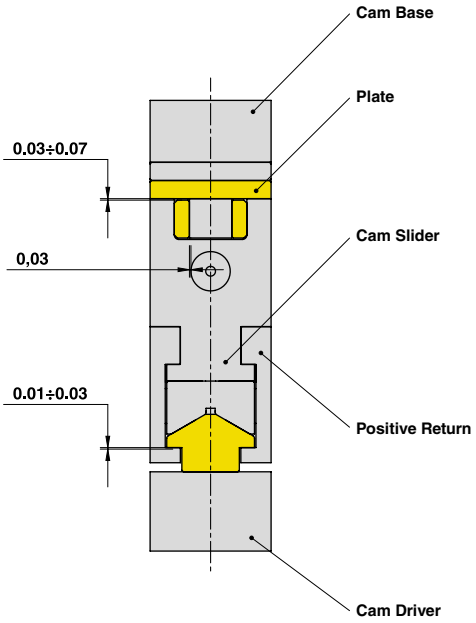


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

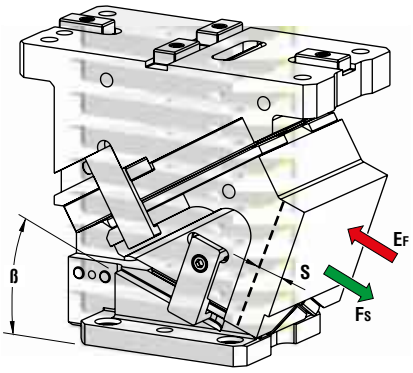
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GGG-40 | 1 |
| 2 | Cam Slider | GG-25 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | GG-25 | 1 |
| 5 | Guide Bar | CK45 | 1 |
| 6 | Positive Return | CK45 | 2 |
| 7 | Male “V” Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Female “V” Driver | CK45 | 1 |
| 9 | Wear Plate | CK45 | 1 |
| 10 | Key | CK45 | 1 |
| 11 | Key | CK45 | 3 |
| 12 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 13 | Spring Spacer | CK45 | 1 |
| 14 | Spring Stopper Plate | CK45 | 1 |
| 15 | Elastomer Cap | Elastomer 92SH | 2 |
| 16G | Gas Spring - Return Type G | - | 1 |
| 16S | Spring - Return Type S | - | 1 |
| 17 | Cam Driver Fixing Screws M12x50 DIN 912 | - | 4 |
| 18 | Cam Base Fixing Screws M12x50 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CHR165.00 | 0° | 32,14 | 340 | 1,49 | 2,46 |
| CHR165.05 | 5° | 35,49 | 340 | 1,49 | 2,46 |
| CHR165.10 | 10° | 38,89 | 340 | 1,49 | 2,46 |
| CHR165.15 | 15° | 42,40 | 340 | 1,49 | 2,46 |
| CHR165.20 | 20° | 46,08 | 340 | 1,49 | 2,46 |
| CHR165.25 | 25° | 50 | 340 | 1,49 | 2,46 |
| CHR165.30 | 30° | 54,25 | 340 | 1,49 | 2,46 |
| CHR165.35 | 35° | 58,96 | 340 | 1,49 | 2,46 |
| CHR165.40 | 40° | 64,28 | 340 | 1,49 | 2,46 |
| CHR165.45 | 45° | 70,44 | 340 | 1,49 | 2,46 |
| CHR165.50 | 50° | 77,79 | 340 | 1,49 | 2,46 |
| CHR165.55 | 55° | 87,17 | 340 | 1,33 | 2,20 |
| CHR165.60 | 60° | 100 | 340 | 1,16 | 1,91 |

| OPTION CODE | |
|---|---|
| N | Dowel pin hole Ø16 H7 drilled on Cam Base |

***Return Type:** **G** = *Gas Spring* / **S** = *Spring*

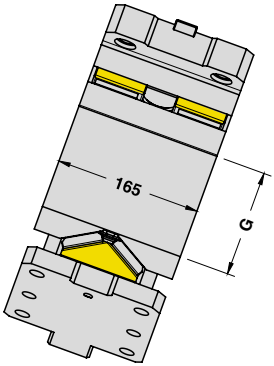
ORDER EXAMPLE

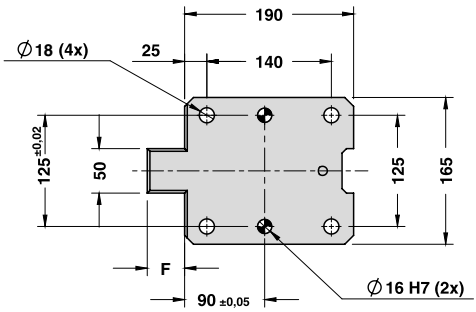
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHR165 | 05 | G | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G |
| CHR165.00 | 0° | 335,84 | 96,98 | 128 | 318 | 154,84 | 55 | 120 |
| CHR165.05 | 5° | 335,25 | 100,91 | 113 | 303 | 155,32 | 55 | 120 |
| CHR165.10 | 10° | 337,27 | 111,09 | 101 | 291 | 159,30 | 50 | 120 |
| CHR165.15 | 15° | 329,78 | 122,46 | 80 | 270 | 156,45 | 45 | 120 |
| CHR165.20 | 20° | 332,68 | 129,99 | 70 | 260 | 162,11 | 42 | 120 |
| CHR165.25 | 25° | 332,88 | 138,62 | 58 | 248 | 167,33 | 37 | 120 |
| CHR165.30 | 30° | 334,28 | 148,28 | 48 | 238 | 170,39 | 30 | 120 |
| CHR165.35 | 35° | 329,80 | 158,89 | 33 | 223 | 167,66 | 25 | 120 |
| CHR165.40 | 40° | 321,35 | 170,38 | 15 | 205 | 161,18 | 25 | 120 |
| CHR165.45 | 45° | 314,86 | 182,66 | 0 | 190 | 155,49 | 25 | 120 |
| CHR165.50 | 50° | 307,27 | 195,63 | -15 | 175 | 149,10 | 0 | 120 |
| CHR165.55 | 55° | 296,59 | 210,30 | -32 | 158 | 121,17 | 0 | 125 |
| CHR165.60 | 60° | 288,56 | 222,26 | -45 | 145 | 113,04 | 0 | 125 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

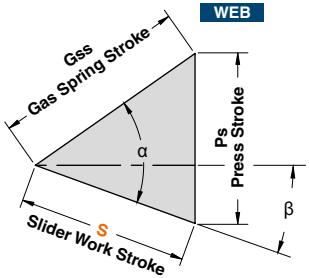
## X VIEW

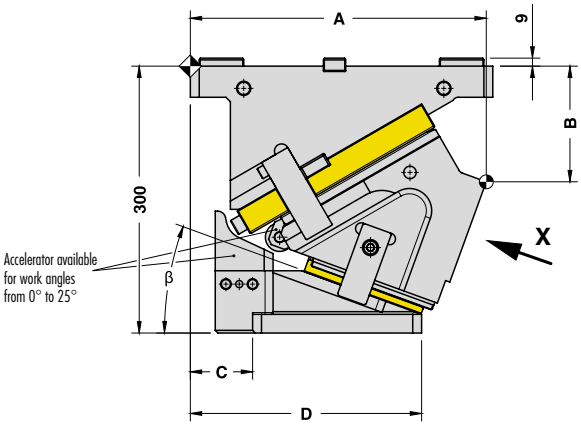


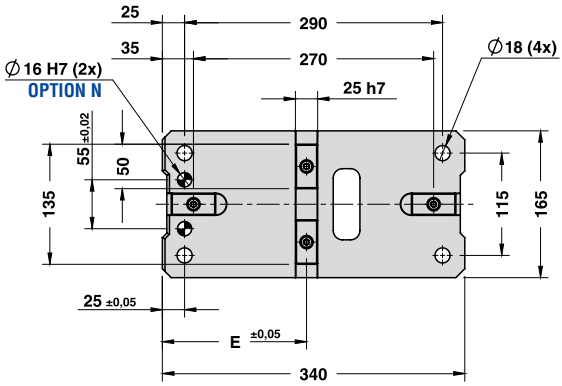

## CAM DIAGRAM

WEB

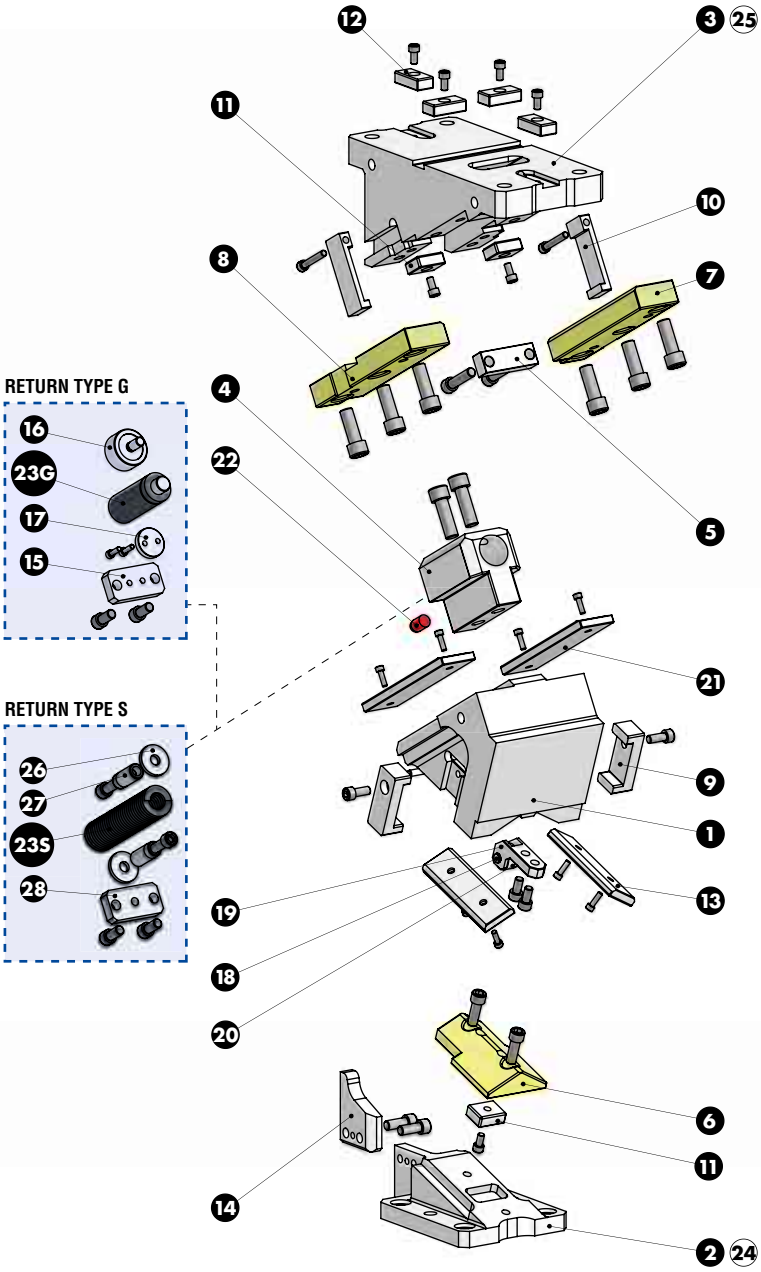



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 50° | 42,40 | 39,65 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 50° | 50,00 | 42,26 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 50° | 58,96 | 46,76 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 50° | 70,44 | 54,17 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 60° | 100,00 | 86,60 | 50 |

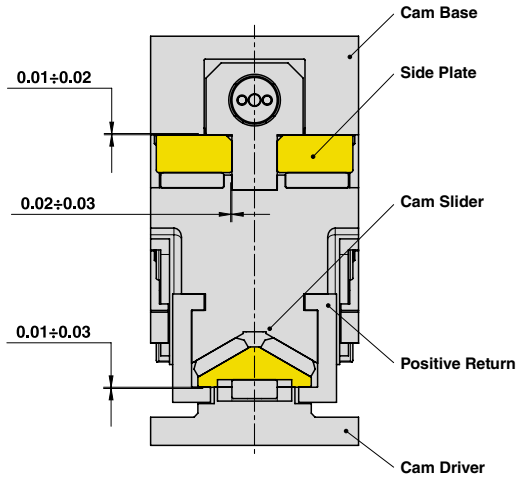


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

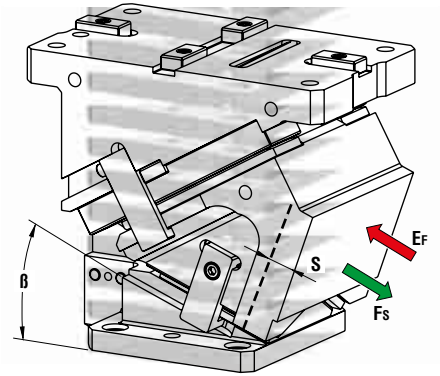
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-25 | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Spring Guide Block | CK45 + Graphite | 1 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Male “V” Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 7 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Positive Return | 42CrMo4 Nitrided | 2 |
| 10 | Positive Return | CK45 | 2 |
| 11 | Key | CK45 | 3 |
| 12 | Key | CK45 | 4 |
| 13 | Wear Plate | CK45 | 2 |
| 14 | Accelerator | CK45 | 1 |
| 15 | Spring Stopper Plate | CK45 | 1 |
| 16 | Spring Guide Pin | CK45 | 1 |
| 17 | Spring Spacer | CK45 | 1 |
| 18 | Shaft | CK45 | 1 |
| 19 | Roller Bracket | CK45 | 1 |
| 20 | Roller | NATR15PP | 1 |
| 21 | Wear Plate VDI 3357 | CK45 | 2 |
| 22 | Elastomer Cap | Elastomer 92SH | 1 |
| 23G | Gas Spring - Return Type G | - | 1 |
| 23S | Spring - Return Type S | - | 1 |
| 24 | Cam Driver Fixing Screws M16x50 DIN 912 | - | 4 |
| 25 | Cam Base Fixing Screws M16x60 DIN 912 | - | 4 |
| 26 | Washer | CK45 | 1 |
| 27 | Spring Guide Pin | CK45 | 1 |
| 28 | Spring Stopper Plate | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




3D STEP WEB
3D CATIA WEB
WEB
P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CHR200.00 | 0° | 32,14 | 408 | 2,35 | 4,82 |
| CHR200.05 | 5° | 35,49 | 408 | 2,35 | 4,82 |
| CHR200.10 | 10° | 38,89 | 408 | 2,35 | 4,82 |
| CHR200.15 | 15° | 42,40 | 408 | 2,35 | 4,82 |
| CHR200.20 | 20° | 46,08 | 408 | 2,35 | 4,82 |
| CHR200.25 | 25° | 50 | 408 | 2,35 | 4,82 |
| CHR200.30 | 30° | 54,25 | 408 | 2,35 | 4,82 |
| CHR200.35 | 35° | 58,96 | 408 | 2,35 | 4,82 |
| CHR200.40 | 40° | 64,28 | 408 | 2,35 | 4,82 |
| CHR200.45 | 45° | 70,44 | 408 | 2,35 | 4,82 |
| CHR200.50 | 50° | 77,79 | 408 | 2,35 | 4,82 |
| CHR200.55 | 55° | 87,17 | 408 | 2,09 | 4,30 |
| CHR200.60 | 60° | 100 | 408 | 1,82 | 3,75 |

| OPTION CODE | |
|---|---|
| N | Dowel pin hole Ø16 H7 drilled on Cam Base |

***Return Type:** **G** = *Gas Spring* / **S** = *Spring*

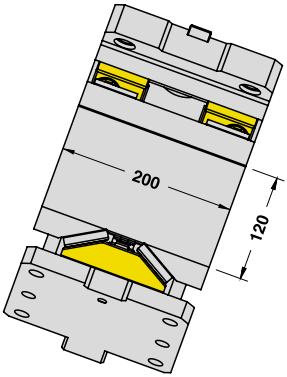
ORDER EXAMPLE

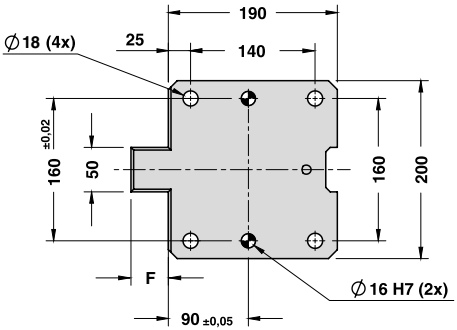
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHR200 | 05 | G | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | |
|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F |
| CHR200.00 | 0° | 335,84 | 96,98 | 128 | 318 | 154,84 | 55 |
| CHR200.05 | 5° | 335,25 | 100,91 | 113 | 303 | 155,32 | 55 |
| CHR200.10 | 10° | 337,27 | 111,09 | 101 | 291 | 159,30 | 50 |
| CHR200.15 | 15° | 329,78 | 122,46 | 80 | 270 | 156,45 | 45 |
| CHR200.20 | 20° | 332,68 | 129,99 | 70 | 260 | 162,11 | 42 |
| CHR200.25 | 25° | 332,88 | 138,62 | 58 | 248 | 167,33 | 37 |
| CHR200.30 | 30° | 334,28 | 148,28 | 48 | 238 | 170,39 | 30 |
| CHR200.35 | 35° | 329,80 | 158,89 | 33 | 223 | 167,66 | 25 |
| CHR200.40 | 40° | 321,35 | 170,38 | 15 | 205 | 161,18 | 25 |
| CHR200.45 | 45° | 314,86 | 182,66 | 0 | 190 | 155,49 | 25 |
| CHR200.50 | 50° | 307,27 | 195,63 | -15 | 175 | 149,10 | 0 |
| CHR200.55 | 55° | 296,59 | 210,30 | -32 | 158 | 121,17 | 0 |
| CHR200.60 | 60° | 288,56 | 222,26 | -45 | 145 | 113,04 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

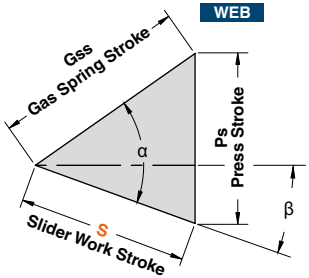
### X VIEW

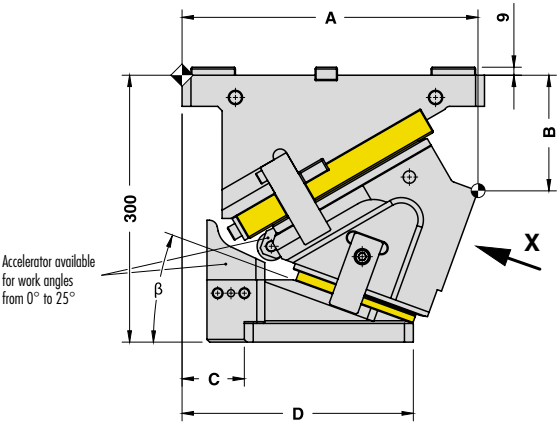


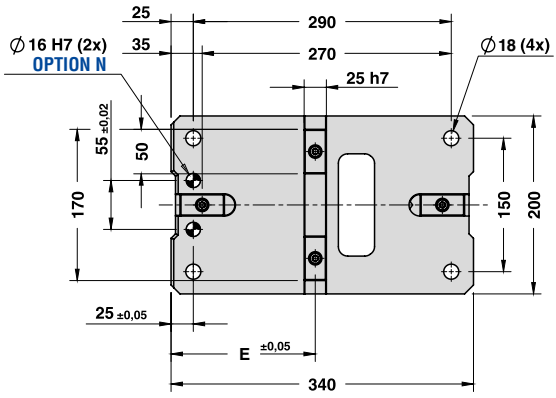

### CAM DIAGRAM

WEB

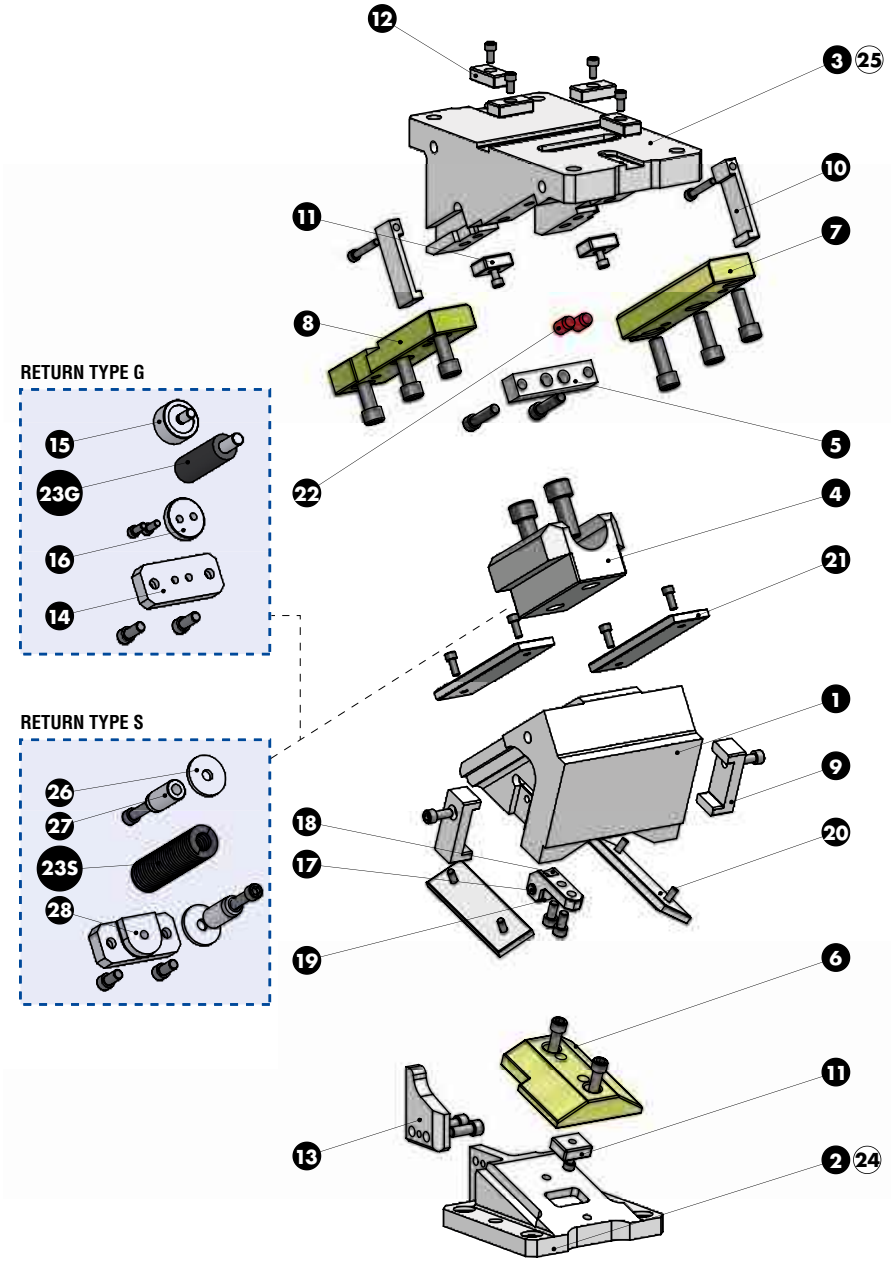



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 50° | 35,49 | 38,45 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 50° | 42,40 | 39,65 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 50° | 50,00 | 42,26 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 50° | 58,96 | 46,76 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 50° | 70,44 | 54,17 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 60° | 100,00 | 86,60 | 50 |

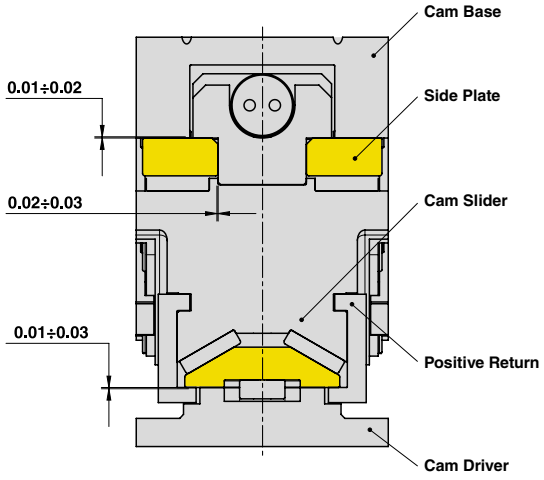


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

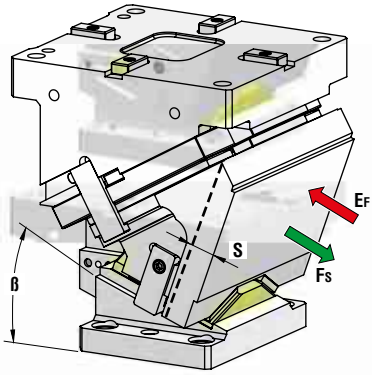
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-25 | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Spring Guide Block | CK45 + Graphite | 1 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Male “V” Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 7 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Positive Return | 42CrMo4 Nitrided | 2 |
| 10 | Positive Return | CK45 | 2 |
| 11 | Key | CK45 | 3 |
| 12 | Key | CK45 | 4 |
| 13 | Accelerator | CK45 | 1 |
| 14 | Spring Stopper Plate | CK45 | 1 |
| 15 | Spring Guide Pin | CK45 | 1 |
| 16 | Gas Spring Spacer | CK45 | 1 |
| 17 | Shaft | CK45 | 1 |
| 18 | Roller Bracket | CK45 | 1 |
| 19 | Roller | NATR15PP | 1 |
| 20 | Wear Plate VDI 3357 | CK45 | 2 |
| 21 | Wear Plate VDI 3357 | CK45 | 2 |
| 22 | Elastomer Cap | Elastomer 92SH | 2 |
| 23G | Gas Spring - Return Type G | - | 1 |
| 23S | Spring - Return Type S | - | 1 |
| 24 | Cam Driver Fixing Screws M16x50 DIN 912 | - | 4 |
| 25 | Cam Base Fixing Screws M16x60 DIN 912 | - | 4 |
| 26 | Washer | CK45 | 1 |
| 27 | Spring Guide Pin | CK45 | 1 |
| 28 | Spring Stopper Plate | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | FS | Spring | Gas Spring |
| CHR300.00 | 0° | 38,57 | 521 | 5,09 | 9,40 |
| CHR300.05 | 5° | 42,59 | 521 | 5,09 | 9,40 |
| CHR300.10 | 10° | 46,67 | 521 | 5,09 | 9,40 |
| CHR300.15 | 15° | 50,88 | 521 | 5,09 | 9,40 |
| CHR300.20 | 20° | 55,30 | 521 | 5,09 | 9,40 |
| CHR300.25 | 25° | 60 | 521 | 5,09 | 9,40 |
| CHR300.30 | 30° | 65,10 | 521 | 5,09 | 9,40 |
| CHR300.35 | 35° | 70,75 | 521 | 5,09 | 9,40 |
| CHR300.40 | 40° | 77,13 | 521 | 5,09 | 9,40 |
| CHR300.45 | 45° | 84,53 | 521 | 5,09 | 9,40 |
| CHR300.50 | 50° | 79,34 | 521 | 4,36 | 8,80 |
| CHR300.55 | 55° | 88,92 | 521 | 3,89 | 7,85 |
| CHR300.60 | 60° | 102 | 521 | 3,39 | 6,85 |

| OPTION CODE | |
|---|---|
| N | Dowel pin hole Ø16 H7 drilled on Cam Base |

***Return Type:** **G** = *Gas Spring* / **S** = *Spring*

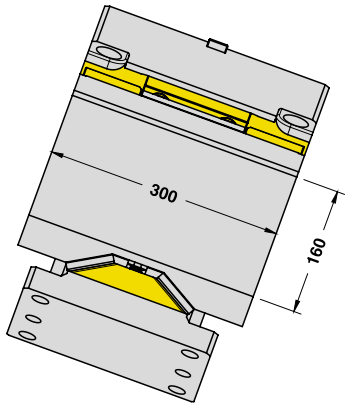
ORDER EXAMPLE

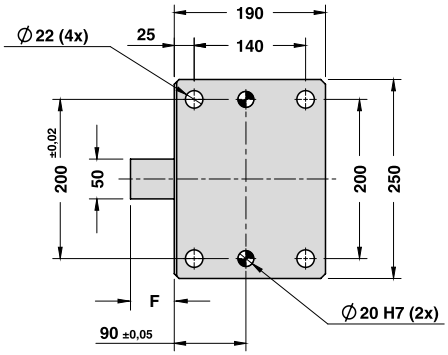
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHR300 | 05 | G | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | |
|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F |
| CHR300.00 | 0° | 313 | 98 | 138 | 328 | 119,50 | 55 |
| CHR300.05 | 5° | 317,15 | 104,18 | 125 | 315 | 127,13 | 55 |
| CHR300.10 | 10° | 324,13 | 111,86 | 115 | 305 | 138,04 | 55 |
| CHR300.15 | 15° | 325,82 | 121,01 | 100 | 290 | 144,41 | 55 |
| CHR300.20 | 20° | 327,08 | 131,59 | 85 | 275 | 151,45 | 55 |
| CHR300.25 | 25° | 334,71 | 138,65 | 75 | 265 | 164,01 | 50 |
| CHR300.30 | 30° | 327,83 | 146,89 | 55 | 245 | 159,87 | 45 |
| CHR300.35 | 35° | 334,51 | 159,17 | 45 | 235 | 169,57 | 35 |
| CHR300.40 | 40° | 325,46 | 167,30 | 25 | 215 | 159,82 | 30 |
| CHR300.45 | 45° | 324,84 | 179,23 | 7 | 197 | 160,54 | 30 |
| CHR300.50 | 50° | 306,63 | 196,84 | -35 | 155 | 137,58 | 0 |
| CHR300.55 | 55° | 277,93 | 229,29 | -85 | 105 | 120,29 | 0 |
| CHR300.60 | 60° | 286,45 | 245,64 | -85 | 105 | 124,79 | 0 |

# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

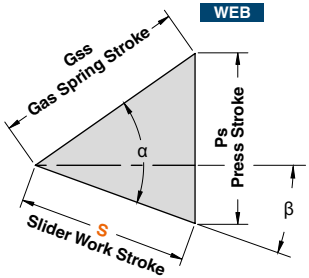
## X VIEW

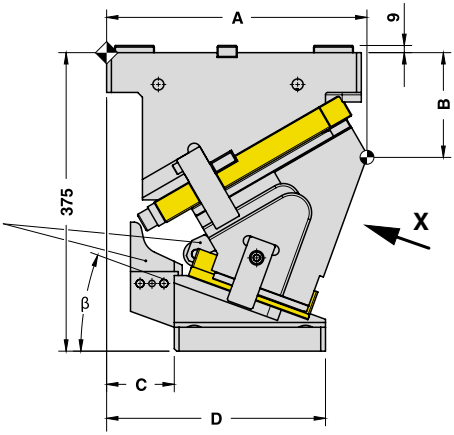



## CAM DIAGRAM

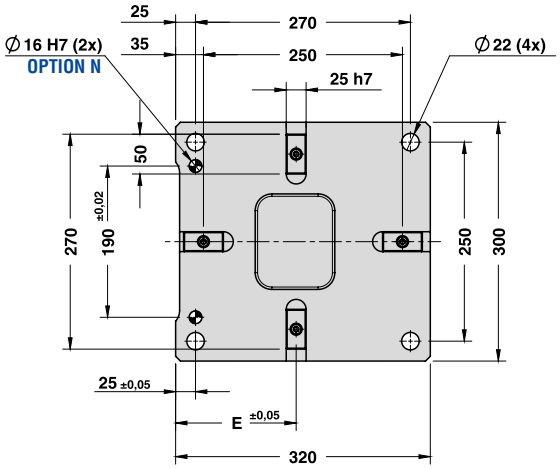
WEB



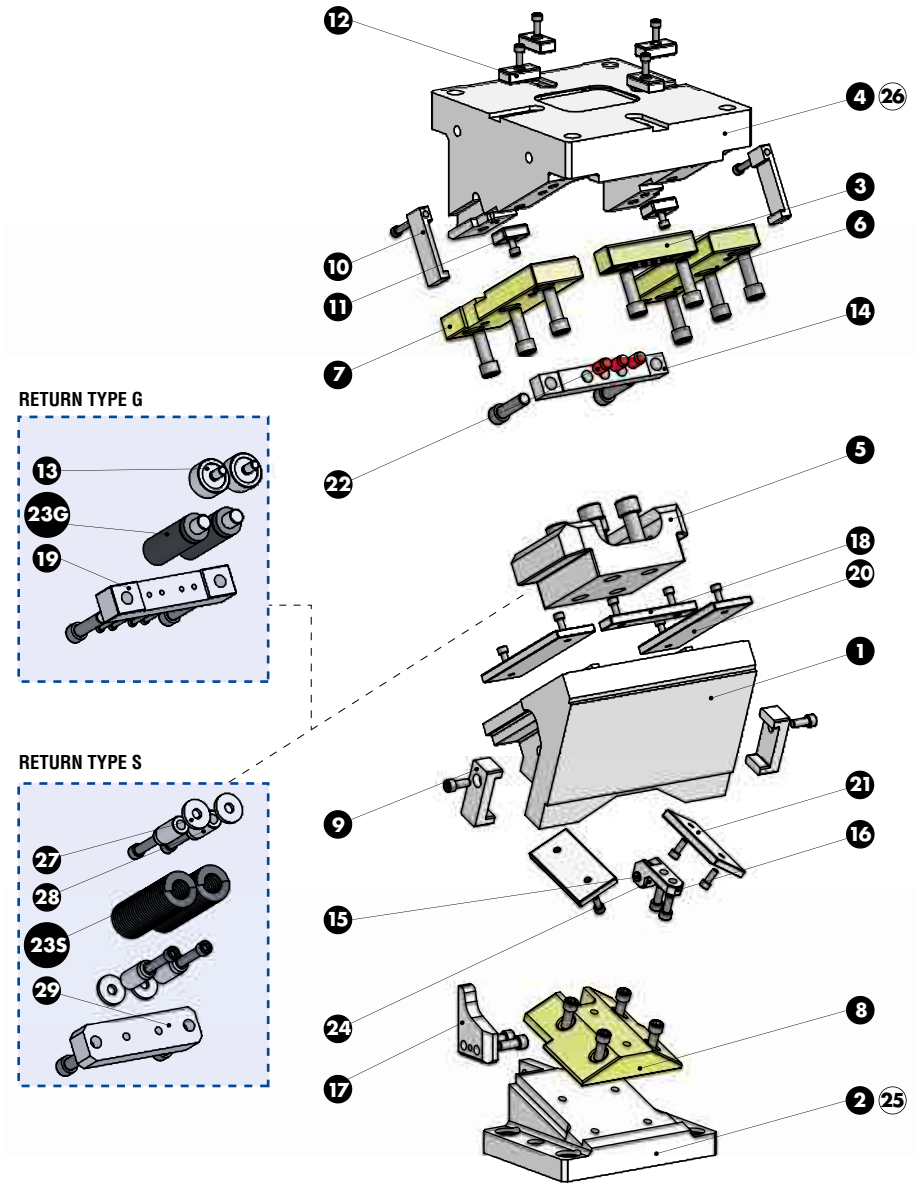




Accelerator available for work angles from 0° to 25°

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60,00 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60,00 | 60 |
| 45° | 50° | 84,53 | 65,00 | 60 |
| 50° | 50° | 79,34 | 60,78 | 51 |
| 55° | 55° | 88,92 | 72,84 | 51 |
| 60° | 60° | 102,00 | 88,33 | 51 |

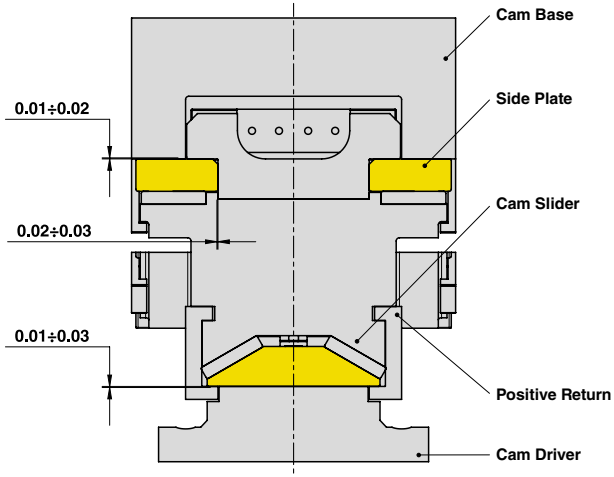


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

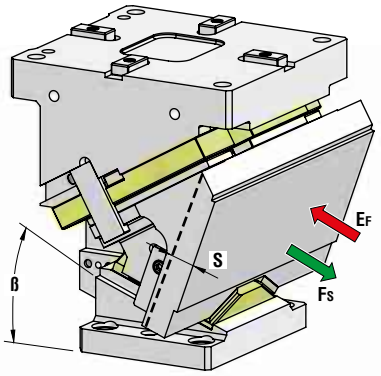
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-25 | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Base | GG-25 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 1 |
| 6 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Positive Return | 42CrMo4 Nitrided | 2 |
| 10 | Positive Return | CK45 | 2 |
| 11 | Key | CK45 | 2 |
| 12 | Key | CK45 | 4 |
| 13 | Spring Guide Pin | CK45 | 2 |
| 14 | Stopper Plate | CK45 | 1 |
| 15 | Shaft | CK45 | 1 |
| 16 | Roller Bracket | CK45 | 1 |
| 17 | Accelerator | CK45 | 1 |
| 18 | Plate | CK45 | 1 |
| 19 | Spring Stopper Plate | CK45 | 1 |
| 20 | Wear Plate VDI 3357 | CK45 | 2 |
| 21 | Wear Plate VDI 3357 | CK45 | 2 |
| 22 | Elastomer Cap | Elastomer 92SH | 3 |
| 23G | Gas Spring - Return Type G | - | 2 |
| 23S | Spring - Return Type S | - | 2 |
| 24 | Roller | NATR15PP | 1 |
| 25 | Cam Driver Fixing Screws M20x65 DIN 912 | - | 4 |
| 26 | Cam Base Fixing Screws M20x75 DIN 912 | - | 4 |
| 27 | Washer | CK45 | 2 |
| 28 | Spring Guide Pin | CK45 | 2 |
| 29 | Spring Stopper Plate | CK45 | 1 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




3D STEP WEB
3D CATIA WEB
WEB
P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) | |
|---|---|---|---|---|---|
| | | | | EF | |
| | β | S | Fs | Spring | Gas Spring |
| CHR400.00 | 0° | 38,57 | 521 | 5,09 | 9,40 |
| CHR400.05 | 5° | 42,59 | 521 | 5,09 | 9,40 |
| CHR400.10 | 10° | 46,67 | 521 | 5,09 | 9,40 |
| CHR400.15 | 15° | 50,88 | 521 | 5,09 | 9,40 |
| CHR400.20 | 20° | 55,30 | 521 | 5,09 | 9,40 |
| CHR400.25 | 25° | 60 | 521 | 5,09 | 9,40 |
| CHR400.30 | 30° | 65,10 | 521 | 5,09 | 9,40 |
| CHR400.35 | 35° | 70,75 | 521 | 5,09 | 9,40 |
| CHR400.40 | 40° | 77,13 | 521 | 5,09 | 9,40 |
| CHR400.45 | 45° | 84,53 | 521 | 5,09 | 9,40 |
| CHR400.50 | 50° | 79,34 | 521 | 4,36 | 8,80 |
| CHR400.55 | 55° | 88,92 | 521 | 3,89 | 7,85 |
| CHR400.60 | 60° | 102 | 521 | 3,39 | 6,85 |

| OPTION CODE | |
|---|---|
| N | Dowel pin hole Ø16 H7 drilled on Cam Base |

***Return Type: G** = *Gas Spring* / **S** = *Spring*

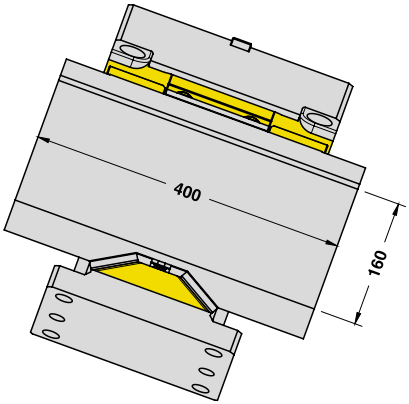
ORDER EXAMPLE

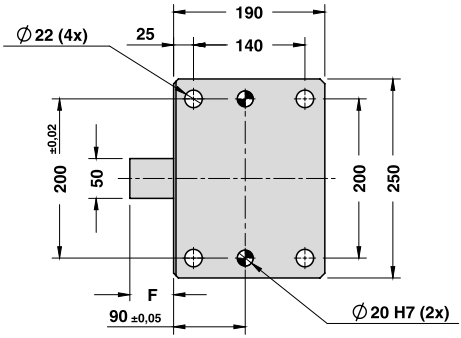
| Art. | Work Angle = 5° | Return Type* | OPTION CODE |
|---|---|---|---|
| CHR400 | 05 | G | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | |
|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F |
| CHR400.00 | 0° | 313 | 98 | 138 | 328 | 119,50 | 55 |
| CHR400.05 | 5° | 317,15 | 104,18 | 125 | 315 | 127,13 | 55 |
| CHR400.10 | 10° | 324,13 | 111,86 | 115 | 305 | 138,04 | 55 |
| CHR400.15 | 15° | 325,82 | 121,01 | 100 | 290 | 144,41 | 55 |
| CHR400.20 | 20° | 327,08 | 131,59 | 85 | 275 | 151,45 | 55 |
| CHR400.25 | 25° | 334,71 | 138,65 | 75 | 265 | 164,01 | 50 |
| CHR400.30 | 30° | 327,83 | 146,89 | 55 | 245 | 159,87 | 45 |
| CHR400.35 | 35° | 334,51 | 159,17 | 45 | 235 | 169,57 | 35 |
| CHR400.40 | 40° | 325,46 | 167,30 | 25 | 215 | 159,82 | 30 |
| CHR400.45 | 45° | 324,84 | 179,23 | 7 | 197 | 160,54 | 30 |
| CHR400.50 | 50° | 306,63 | 196,84 | -35 | 155 | 137,58 | 0 |
| CHR400.55 | 55° | 277,93 | 229,29 | -85 | 105 | 120,29 | 0 |
| CHR400.60 | 60° | 286,45 | 245,64 | -85 | 105 | 124,79 | 0 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

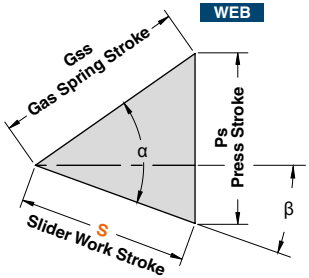
### X VIEW

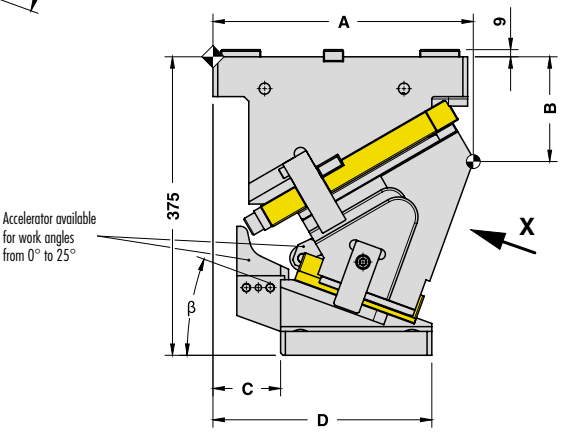


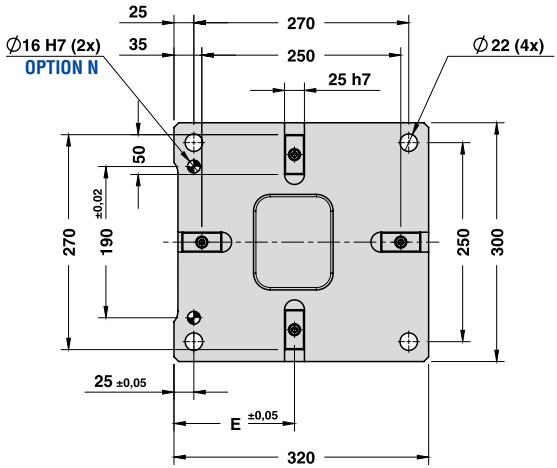

### CAM DIAGRAM

WEB

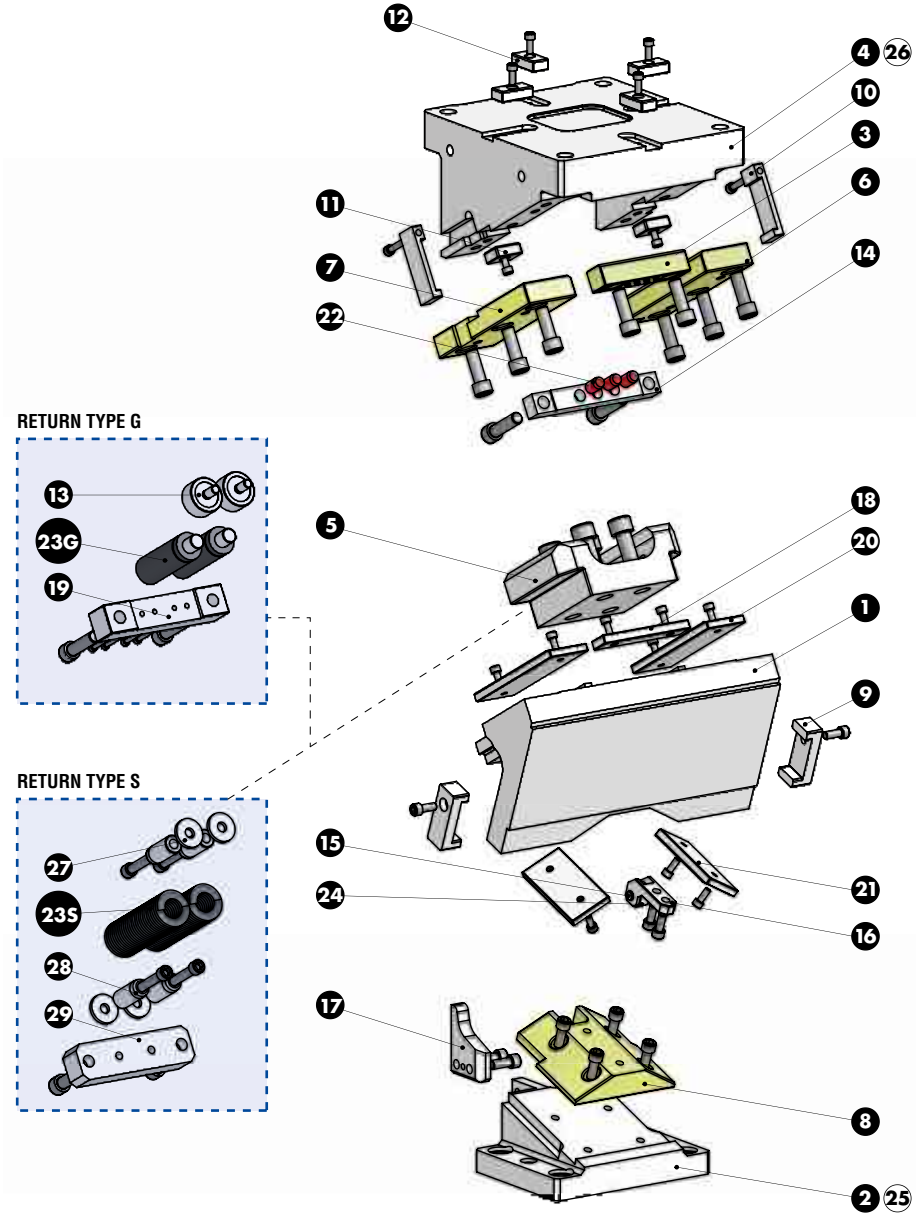



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 50° | 38,57 | 45,96 | 60 |
| 5° | 50° | 42,59 | 46,14 | 60 |
| 10° | 50° | 46,67 | 46,67 | 60 |
| 15° | 50° | 50,88 | 47,58 | 60 |
| 20° | 50° | 55,30 | 48,91 | 60 |
| 25° | 50° | 60,00 | 50,71 | 60 |
| 30° | 50° | 65,10 | 53,07 | 60 |
| 35° | 50° | 70,75 | 56,11 | 60 |
| 40° | 50° | 77,13 | 60,00 | 60 |
| 45° | 50° | 84,53 | 65,00 | 60 |
| 50° | 50° | 79,34 | 60,78 | 51 |
| 55° | 55° | 88,92 | 72,84 | 51 |
| 60° | 60° | 102,00 | 88,33 | 51 |

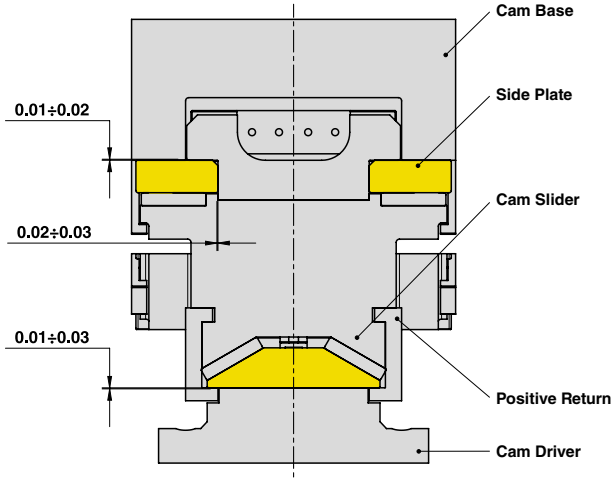


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GG-25 | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Base | GG-25 | 1 |
| 5 | Spring Guide Block | CK45 + Graphite | 1 |
| 6 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 7 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Male “V” Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Positive Return | 42CrMo4 Nitrided | 2 |
| 10 | Positive Return | CK45 | 2 |
| 11 | Key | CK45 | 2 |
| 12 | Key | CK45 | 4 |
| 13 | Spring Guide Pin | CK45 | 2 |
| 14 | Stopper Plate | CK45 | 1 |
| 15 | Shaft | CK45 | 1 |
| 16 | Roller Bracket | CK45 | 1 |
| 17 | Accelerator | CK45 | 1 |
| 18 | Plate | CK45 | 1 |
| 19 | Spring Stopper Plate | CK45 | 1 |
| 20 | Wear Plate VDI 3357 | CK45 | 2 |
| 21 | Wear Plate VDI 3357 | CK45 | 2 |
| 22 | Elastomer Cap | Elastomer 92SH | 3 |
| 23G | Gas Spring - Return Type G | - | 2 |
| 23S | Spring - Return Type S | - | 2 |
| 24 | Roller | NATR15PP | 1 |
| 25 | Cam Driver Fixing Screws M20x65 DIN 912 | - | 4 |
| 26 | Cam Base Fixing Screws M20x75 DIN 912 | - | 4 |
| 27 | Washer | CK45 | 2 |
| 28 | Spring Guide Pin | CK45 | 2 |
| 29 | Spring Stopper Plate | CK45 | 1 |



# Cam Units CLC
# Schieber CLC
# Unità a Camme CLC

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | Page number |
|---|---|---|---|---|---|---|---|
| | β | | | | Fs | Ef | |
| **CLC050** | 0÷70° | 50 | 200 | 50x75 | 41 | 0,35÷0,71 | 860 |
| **CLC065** | 0÷70° | 65 | 180 (0÷45°)<br>190 (50-÷55°)<br>210 (60÷70°) | 65x65 | 42 | 0,44÷0,94 | 864 |
| **CLC080** | 0÷70° | 80 | 270 | 80x86 | 83 | 0,58÷1,20 | 868 |
| **CLC150** | 0÷70° | 150 | 270 | 150x85 | 140 | 1,66÷4,18 | 872 |

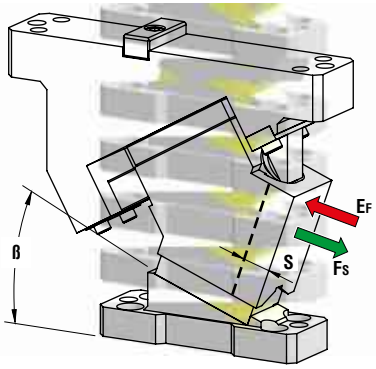







Highly skilled workers

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Spring |
| CLC050.00 | 0° | 30,21 | 41 | 0,66 |
| CLC050.05 | 5° | 30,52 | 41 | 0,61 |
| CLC050.10 | 10° | 30,34 | 41 | 0,56 |
| CLC050.15 | 15° | 30,53 | 41 | 0,71 |
| CLC050.20 | 20° | 30,41 | 41 | 0,66 |
| CLC050.25 | 25° | 30 | 41 | 0,66 |
| CLC050.30 | 30° | 32,55 | 41 | 0,66 |
| CLC050.35 | 35° | 35,38 | 41 | 0,66 |
| CLC050.40 | 40° | 38,57 | 41 | 0,66 |
| CLC050.45 | 45° | 42,26 | 41 | 0,66 |
| CLC050.50 | 50° | 46,67 | 41 | 0,66 |
| CLC050.55 | 55° | 52,10 | 41 | 0,59 |
| CLC050.60 | 60° | 59,09 | 41 | 0,52 |
| CLC050.65 | 65° | 58,26 | 41 | 0,38 |
| CLC050.70 | 70° | 57,59 | 41 | 0,35 |

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |
| SW | 65 mm |
| N | Ø 12H7 |

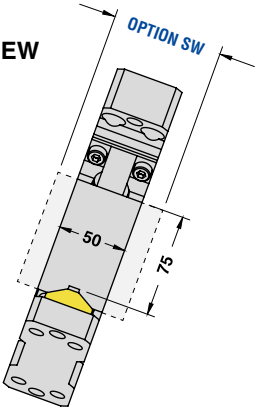
ORDER EXAMPLE

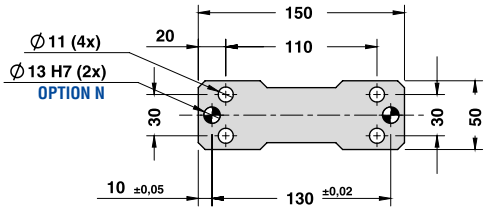
| Art. | Work Angle = 5° | OPTION CODE SL | SW | N |
|---|---|---|---|---|
| CLC050 | 05 | SL55 | SW65 | N12 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | |
|---|---|---|---|---|---|
| | β | A | B | C | D |
| CLC050.00 | 0° | 225 | 77,50 | 107 | 257 |
| CLC050.05 | 5° | 226,91 | 78,33 | 100 | 250 |
| CLC050.10 | 10° | 223,72 | 79,93 | 90 | 240 |
| CLC050.15 | 15° | 224,36 | 82,29 | 85 | 235 |
| CLC050.20 | 20° | 220,76 | 85,39 | 70 | 220 |
| CLC050.25 | 25° | 215,85 | 89,22 | 58 | 208 |
| CLC050.30 | 30° | 213,58 | 94,73 | 55 | 205 |
| CLC050.35 | 35° | 204,89 | 96,90 | 35 | 185 |
| CLC050.40 | 40° | 206,72 | 102,69 | 30 | 180 |
| CLC050.45 | 45° | 202,01 | 103,06 | 20 | 170 |
| CLC050.50 | 50° | 195,73 | 105,94 | 10 | 160 |
| CLC050.55 | 55° | 189,83 | 116,30 | 0 | 150 |
| CLC050.60 | 60° | 179,27 | 125,08 | -15 | 135 |
| CLC050.65 | 65° | 176,60 | 126,87 | -32 | 118 |
| CLC050.70 | 70° | 177 | 135,83 | -38 | 112 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

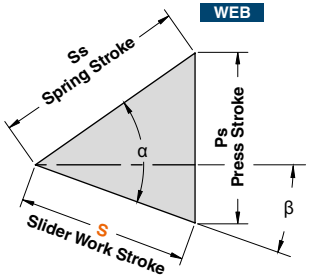
### X VIEW

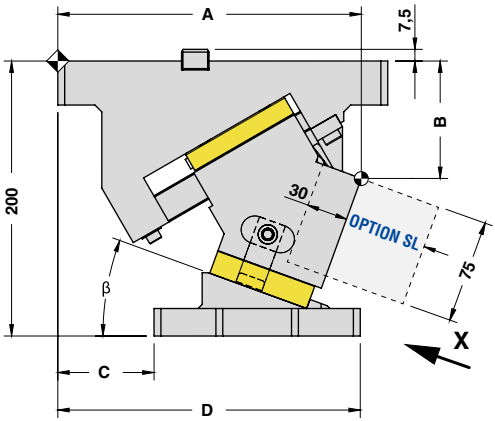


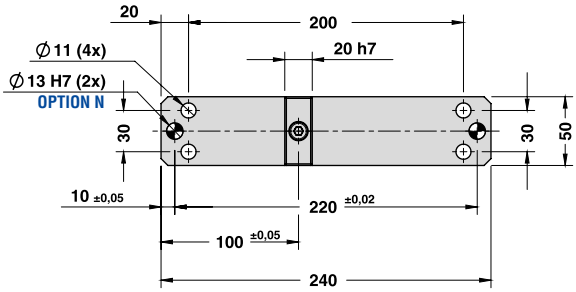

### CAM DIAGRAM

WEB

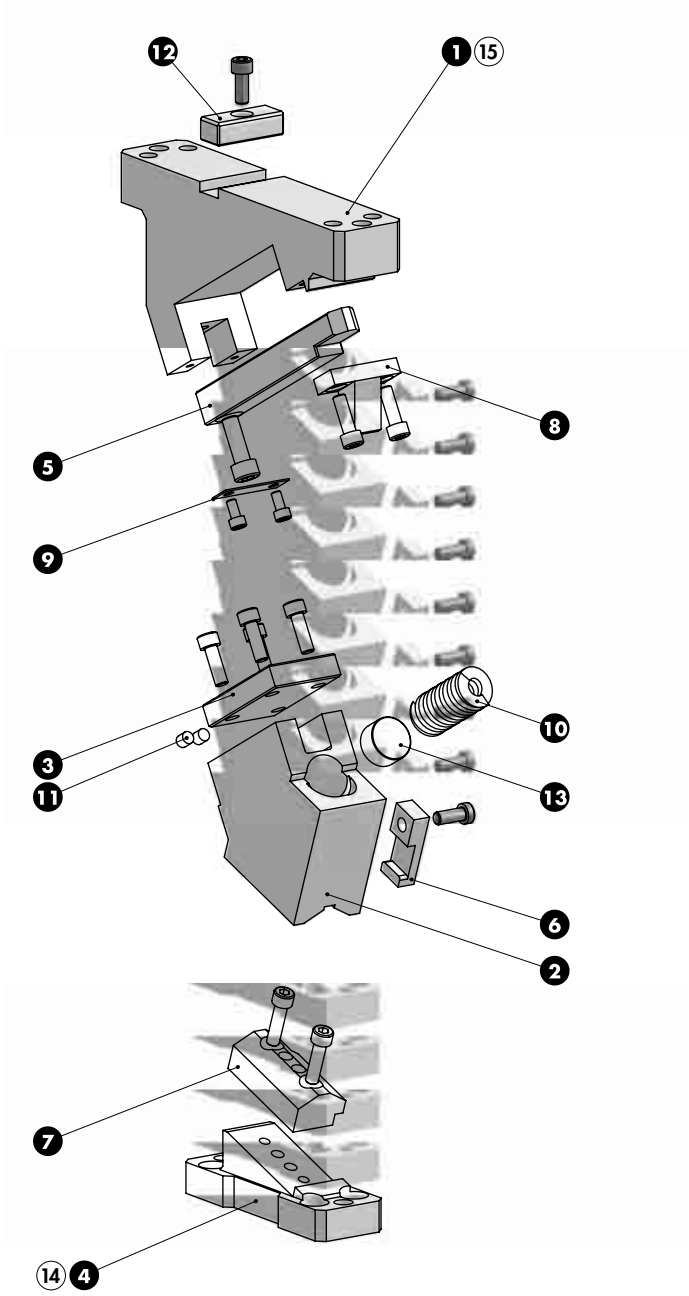



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 30,21 | 36,00 | 47 |
| 5° | 50° | 30,52 | 33,07 | 43 |
| 10° | 50° | 30,34 | 30,34 | 39 |
| 15° | 50° | 30,53 | 28,55 | 36 |
| 20° | 50° | 30,41 | 26,90 | 33 |
| 25° | 50° | 30,00 | 25,36 | 30 |
| 30° | 50° | 32,55 | 26,54 | 30 |
| 35° | 50° | 35,38 | 28,06 | 30 |
| 40° | 50° | 38,57 | 30,00 | 30 |
| 45° | 50° | 42,26 | 32,50 | 30 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 55° | 50° | 52,10 | 40,07 | 30 |
| 60° | 50° | 59,09 | 45,96 | 30 |
| 65° | 55° | 58,26 | 48,46 | 25 |
| 70° | 60° | 57,59 | 50,64 | 20 |

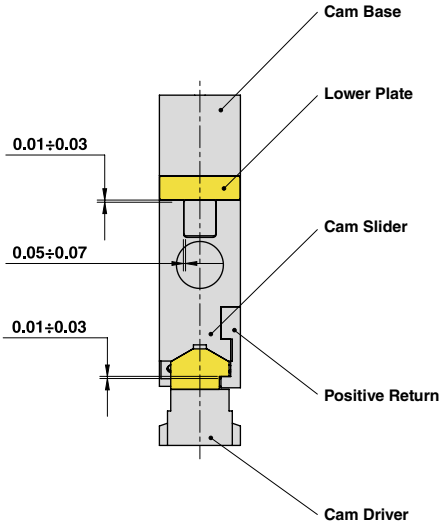


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

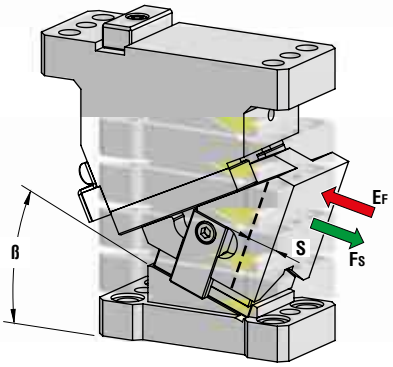





## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GGG-50 | 1 |
| 2 | Cam Slider | GGG-50 | 1 |
| 3 | Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 4 | Cam Driver | GG-25 | 1 |
| 5 | Guide Bar | 42CrMo4 + Graphite | 1 |
| 6 | Positive Return | CK45 | 1 |
| 7 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Spring Block | St44 | 1 |
| 9 | Safety Plate | St44 | 1 |
| 10 | Spring | - | 1 |
| 11 | Elastomer Cap | Elastomer 92SH | 2 |
| 12 | Key | CK45 | 1 |
| 13 | Spring Spacer | CK45 | 1 |
| 14 | Cam Driver Fixing Screws M10x35 DIN 912 | - | 4 |
| 15 | Cam Base Fixing Screws M10x40 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Spring |
| CLC065.00 | 0° | 14,99 | 42 | 0,94 |
| CLC065.05 | 5° | 15,07 | 42 | 0,89 |
| CLC065.10 | 10° | 15,22 | 42 | 0,91 |
| CLC065.15 | 15° | 15,51 | 42 | 0,87 |
| CLC065.20 | 20° | 16,49 | 42 | 0,87 |
| CLC065.25 | 25° | 17,10 | 42 | 0,79 |
| CLC065.30 | 30° | 18,51 | 42 | 0,85 |
| CLC065.35 | 35° | 19,57 | 42 | 0,77 |
| CLC065.40 | 40° | 21,46 | 42 | 0,85 |
| CLC065.45 | 45° | 23,25 | 42 | 0,77 |
| CLC065.50 | 50° | 26,50 | 42 | 0,79 |
| CLC065.55 | 55° | 29,70 | 42 | 0,70 |
| CLC065.60 | 60° | 34,97 | 42 | 0,64 |
| CLC065.65 | 65° | 41,37 | 42 | 0,54 |
| CLC065.70 | 70° | 51,12 | 42 | 0,44 |

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |

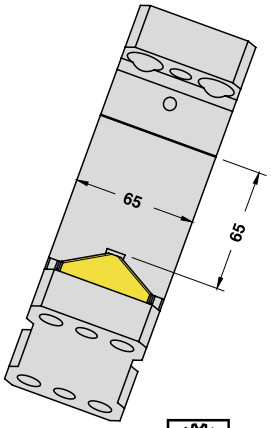
ORDER EXAMPLE

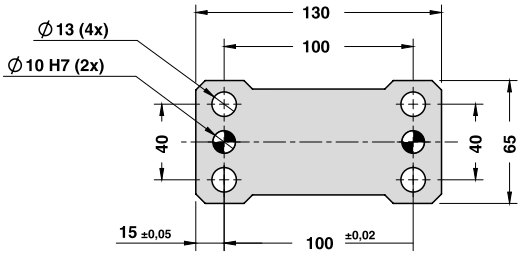
| | | OPTION CODE |
|---|---|---|
| Art. | Work Angle = 5° | SL |
| CLC065 | 05 | SL55 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CLC065.00 | 0° | 170 | 53 | 60 | 190 | 180 |
| CLC065.05 | 5° | 171,41 | 60,27 | 55 | 185 | 180 |
| CLC065.10 | 10° | 177,16 | 63,06 | 55 | 185 | 180 |
| CLC065.15 | 15° | 177,20 | 66,33 | 50 | 180 | 180 |
| CLC065.20 | 20° | 176,51 | 70,01 | 40 | 170 | 180 |
| CLC065.25 | 25° | 172,94 | 75,64 | 35 | 165 | 180 |
| CLC065.30 | 30° | 177,78 | 78,32 | 30 | 160 | 180 |
| CLC065.35 | 35° | 173,29 | 83,25 | 20 | 150 | 180 |
| CLC065.40 | 40° | 170,78 | 82,44 | 10 | 140 | 180 |
| CLC065.45 | 45° | 165,50 | 86,51 | 2,5 | 132,5 | 180 |
| CLC065.50 | 50° | 165,41 | 96,79 | -5 | 125 | 190 |
| CLC065.55 | 55° | 159,51 | 99,89 | -10 | 120 | 190 |
| CLC065.60 | 60° | 156,68 | 120,78 | -20 | 110 | 210 |
| CLC065.65 | 65° | 150,33 | 122,80 | -25 | 105 | 210 |
| CLC065.70 | 70° | 146,45 | 131,68 | -32 | 98 | 210 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

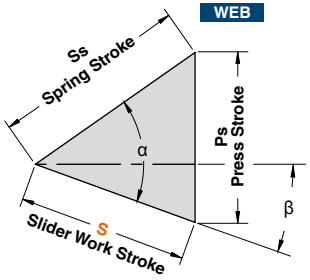
### X VIEW

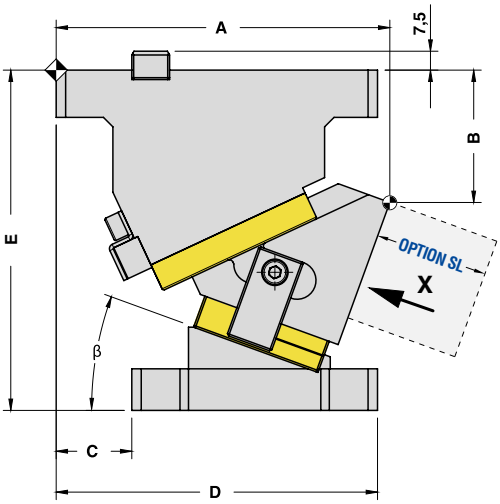


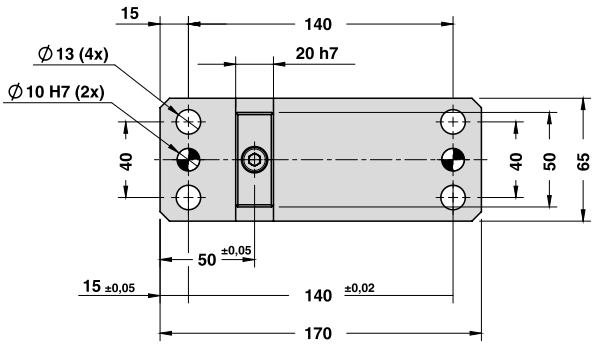

### CAM DIAGRAM

WEB

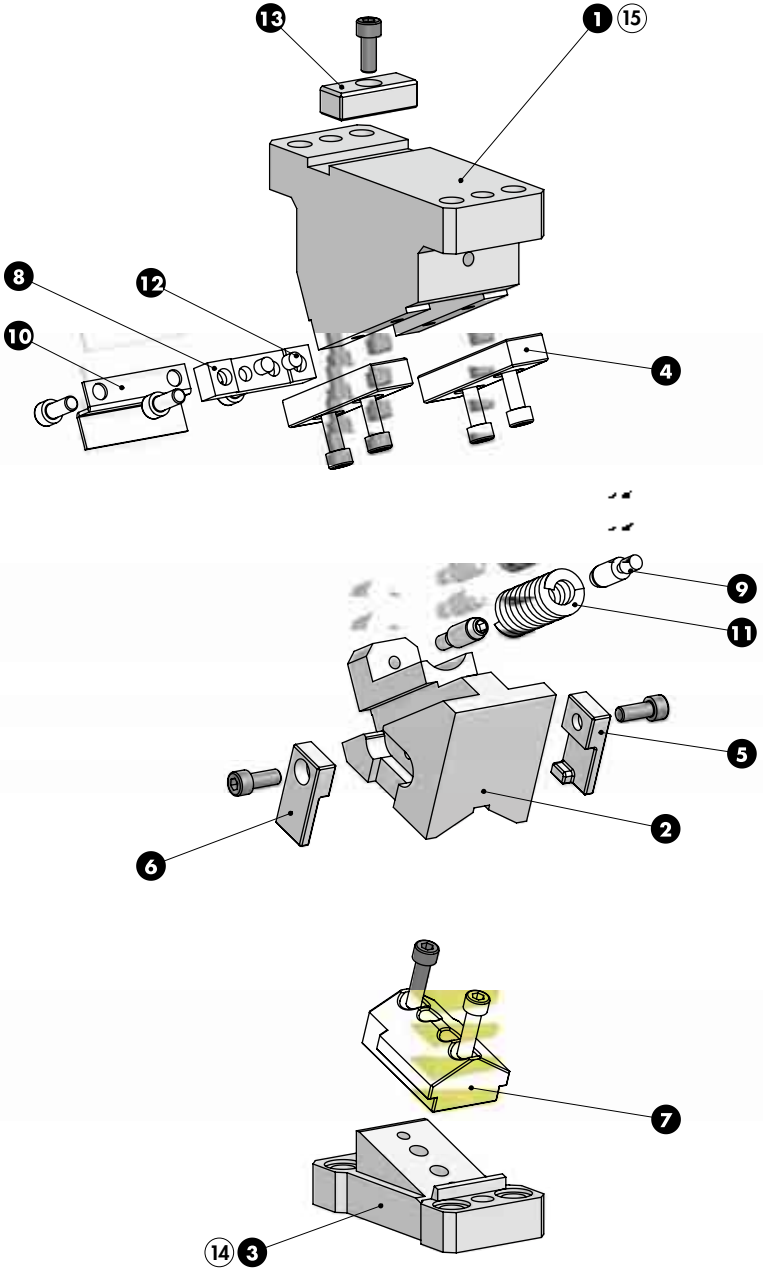



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 45° | 14,99 | 14,99 | 21,2 |
| 5° | 45° | 15,07 | 13,91 | 19,6 |
| 10° | 45° | 15,22 | 13,14 | 18,3 |
| 15° | 45° | 15,51 | 12,66 | 17,3 |
| 20° | 45° | 16,49 | 12,87 | 17,1 |
| 25° | 50° | 17,10 | 14,45 | 17,1 |
| 30° | 45° | 18,51 | 13,55 | 16,6 |
| 35° | 50° | 19,57 | 15,52 | 16,6 |
| 40° | 45° | 21,46 | 15,23 | 16,5 |
| 45° | 50° | 23,25 | 17,88 | 16,5 |
| 50° | 45° | 26,50 | 18,81 | 17,1 |
| 55° | 50° | 29,70 | 22,84 | 17,1 |
| 60° | 45° | 34,97 | 25,60 | 18,1 |
| 65° | 50° | 41,37 | 32,81 | 18,1 |
| 70° | 55° | 51,12 | 43,35 | 18,1 |

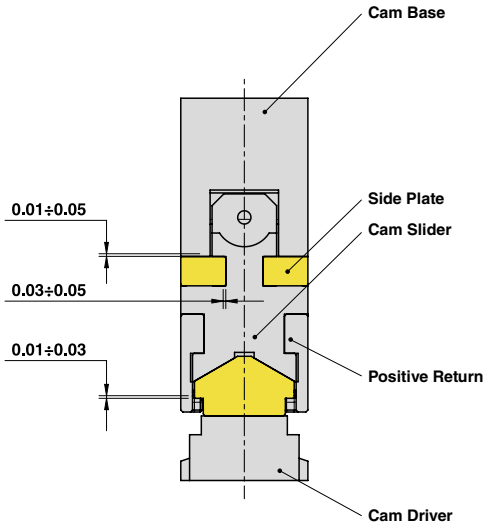


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

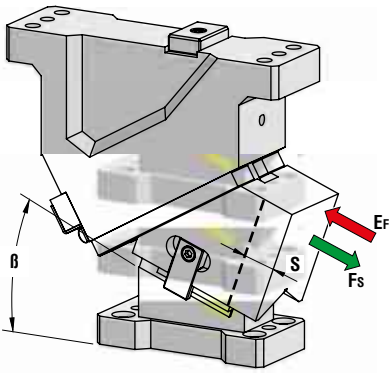





## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GGG-45 | 1 |
| 2 | Cam Slider | GG-25 | 1 |
| 3 | Cam Driver | GG-25 | 1 |
| 4 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 5 | Positive Return R | CK45 | 1 |
| 6 | Positive Return L | CK45 | 1 |
| 7 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 8 | Stopper Plate | St44 | 1 |
| 9 | Spring Guide Pin | 34CrMo4 | 2 |
| 10 | Safety Plate | St44 | 1 |
| 11 | Spring | - | 1 |
| 12 | Elastomer Cap | Elastomer 92SH | 2 |
| 13 | Key | CK45 | 1 |
| 14 | Cam Driver Fixing Screws M12x35 DIN 912 | - | 4 |
| 15 | Cam Base Fixing Screws M12x35 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Max Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Spring |
| CLC080.00 | 0° | 32,14 | 83 | 1,09 |
| CLC080.05 | 5° | 38,45 | 83 | 1,20 |
| CLC080.10 | 10° | 38,89 | 83 | 1,09 |
| CLC080.15 | 15° | 39,65 | 83 | 0,97 |
| CLC080.20 | 20° | 46,08 | 83 | 1,09 |
| CLC080.25 | 25° | 47,78 | 83 | 0,97 |
| CLC080.30 | 30° | 54,25 | 83 | 1,09 |
| CLC080.35 | 35° | 57,36 | 83 | 0,97 |
| CLC080.40 | 40° | 64,28 | 83 | 1,09 |
| CLC080.45 | 45° | 69,64 | 83 | 0,97 |
| CLC080.50 | 50° | 77,79 | 83 | 1,09 |
| CLC080.55 | 55° | 87,17 | 83 | 0,97 |
| CLC080.60 | 60° | 98,48 | 83 | 0,85 |
| CLC080.65 | 65° | 81,56 | 83 | 0,65 |
| CLC080.70 | 70° | 86,38 | 83 | 0,58 |

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |
| SW | 100 or 120 mm |
| N | Ø 16 H7 |

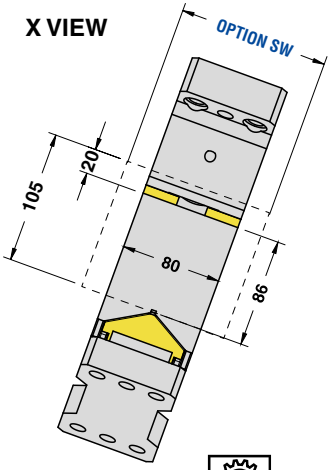
ORDER EXAMPLE

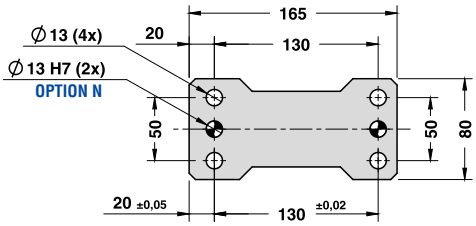
| | | OPTION CODE | | |
|---|---|---|---|---|
| Art. | Work Angle = 5° | SL | SW | N |
| CLC080 | 05 | SL55 | SW120 | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CLC080.00 | 0° | 260 | 99 | 100 | 265 | 130 |
| CLC080.05 | 5° | 272,93 | 109,39 | 100 | 265 | 150 |
| CLC080.10 | 10° | 279,92 | 120,43 | 100 | 265 | 150 |
| CLC080.15 | 15° | 285,93 | 132,04 | 100 | 265 | 150 |
| CLC080.20 | 20° | 285,90 | 129,12 | 90 | 255 | 170 |
| CLC080.25 | 25° | 289,80 | 141,60 | 90 | 255 | 170 |
| CLC080.30 | 30° | 282,59 | 134,36 | 75 | 240 | 170 |
| CLC080.35 | 35° | 284,27 | 147,32 | 75 | 240 | 170 |
| CLC080.40 | 40° | 274,80 | 140,38 | 60 | 225 | 170 |
| CLC080.45 | 45° | 274,20 | 153,44 | 60 | 225 | 170 |
| CLC080.50 | 50° | 262,46 | 151,39 | 35 | 200 | 170 |
| CLC080.55 | 55° | 259,60 | 164,14 | 35 | 200 | 170 |
| CLC080.60 | 60° | 240,64 | 176,59 | 0 | 165 | 170 |
| CLC080.65 | 65° | 235,61 | 188,65 | -5 | 160 | 170 |
| CLC080.70 | 70° | 227,83 | 195,53 | -10 | 155 | 170 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

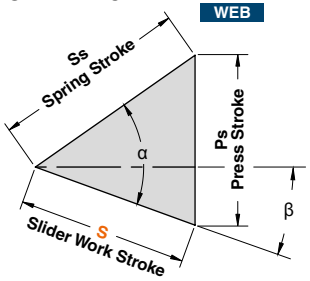
### X VIEW

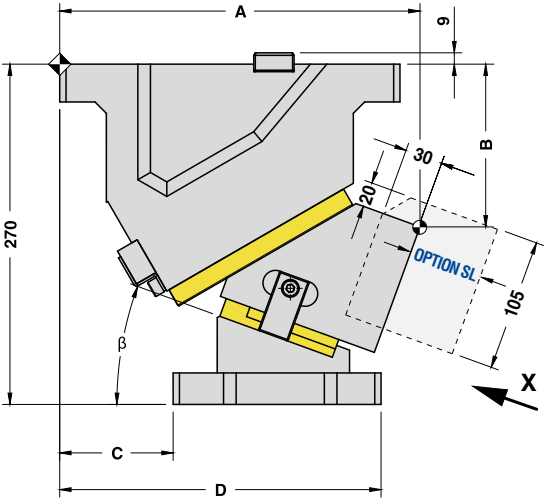


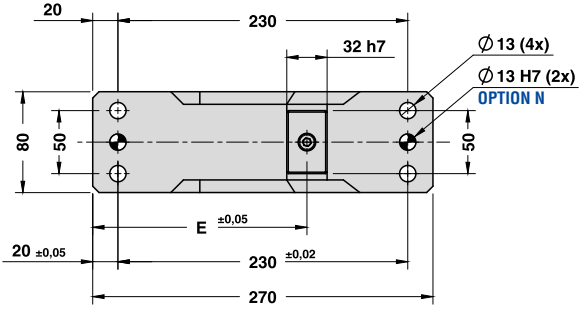

### CAM DIAGRAM

WEB

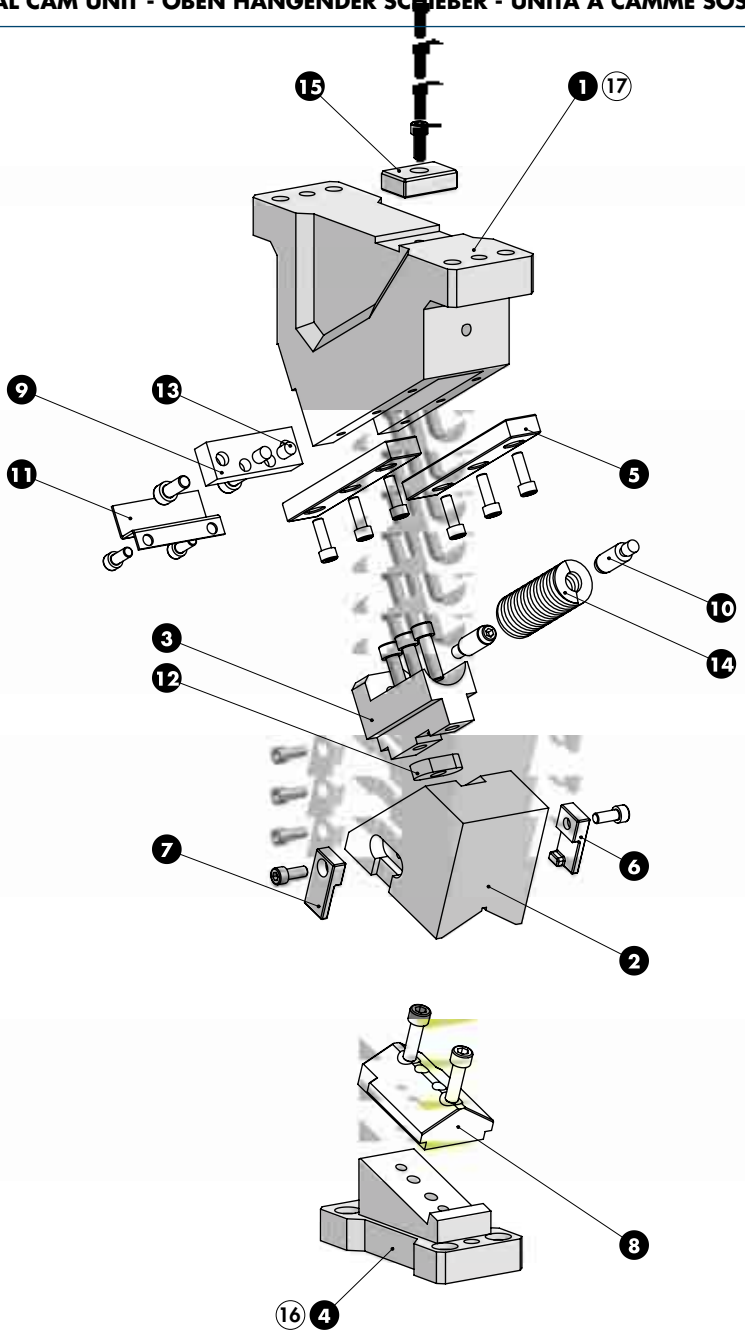



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 45° | 38,45 | 35,49 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 50° | 98,48 | 76,60 | 50 |
| 65° | 55° | 81,56 | 67,84 | 35 |
| 70° | 60° | 86,38 | 75,96 | 30 |

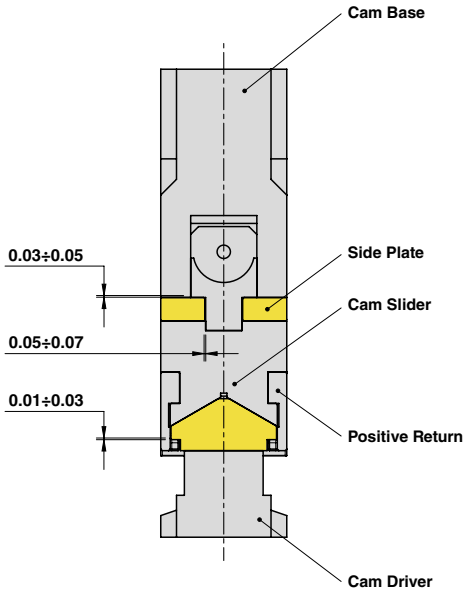


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

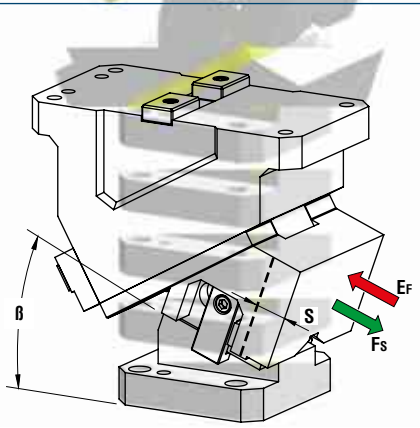





## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GGG-45 | 1 |
| 2 | Cam Slider | GG-25 | 1 |
| 3 | Spring Guide Block | GGG-45 + Graphite | 1 |
| 4 | Cam Driver | GG-25 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return R | CK45 | 1 |
| 7 | Positive Return L | CK45 | 1 |
| 8 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Stopper Plate | St44 | 1 |
| 10 | Spring Guide Pin | 34CrMo4 | 2 |
| 11 | Safety Plate | St44 | 1 |
| 12 | Key | CK45 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 2 |
| 14 | Spring | - | 1 |
| 15 | Key | CK45 | 1 |
| 16 | Cam Driver Fixing Screws M12x40 DIN 912 | - | 4 |
| 17 | Cam Base Fixing Screws M12x45 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Max Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| CLC150.00 | 0° | 32,14 | 140 | 4,18 |
| CLC150.05 | 5° | 32,26 | 140 | 3,73 |
| CLC150.10 | 10° | 38,89 | 140 | 4,18 |
| CLC150.15 | 15° | 39,65 | 140 | 3,73 |
| CLC150.20 | 20° | 46,08 | 140 | 4,18 |
| CLC150.25 | 25° | 47,78 | 140 | 3,73 |
| CLC150.30 | 30° | 54,25 | 140 | 4,18 |
| CLC150.35 | 35° | 57,36 | 140 | 3,73 |
| CLC150.40 | 40° | 64,28 | 140 | 4,18 |
| CLC150.45 | 45° | 69,64 | 140 | 3,73 |
| CLC150.50 | 50° | 77,79 | 140 | 4,18 |
| CLC150.55 | 55° | 87,17 | 140 | 3,73 |
| CLC150.60 | 60° | 98,48 | 140 | 3,25 |
| CLC150.65 | 65° | 93,21 | 140 | 2,40 |
| CLC150.70 | 70° | 86,38 | 140 | 1,66 |

| OPTION CODE | |
|---|---|
| N | Ø16 H7 |

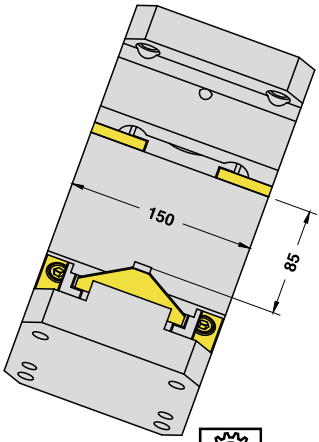
ORDER EXAMPLE

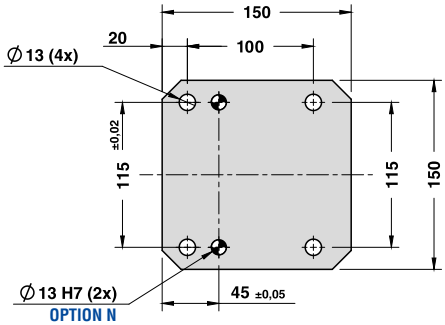
| Art. | Work Angle = 5° | OPTION CODE |
|---|---|---|
| CLC150 | 05 | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CLC150.00 | 0° | 280 | 85 | 120 | 270 | 100 |
| CLC150.05 | 5° | 288,26 | 95,84 | 115 | 265 | 100 |
| CLC150.10 | 10° | 285,54 | 102,36 | 105 | 255 | 100 |
| CLC150.15 | 15° | 291,79 | 114,47 | 105 | 255 | 100 |
| CLC150.20 | 20° | 286,97 | 122,07 | 90 | 240 | 135 |
| CLC150.25 | 25° | 291,02 | 135,08 | 90 | 240 | 135 |
| CLC150.30 | 30° | 283,92 | 138,40 | 70 | 220 | 135 |
| CLC150.35 | 35° | 285,66 | 151,91 | 70 | 220 | 135 |
| CLC150.40 | 40° | 276,20 | 155,53 | 45 | 195 | 170 |
| CLC150.45 | 45° | 275,56 | 169,14 | 45 | 195 | 170 |
| CLC150.50 | 50° | 263,74 | 167,65 | 25 | 175 | 170 |
| CLC150.55 | 55° | 260,74 | 180,94 | 25 | 175 | 170 |
| CLC150.60 | 60° | 246,60 | 193,92 | 0 | 150 | 170 |
| CLC150.65 | 65° | 241,35 | 206,49 | 0 | 150 | 170 |
| CLC150.70 | 70° | 240,01 | 218,56 | -5 | 145 | 170 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

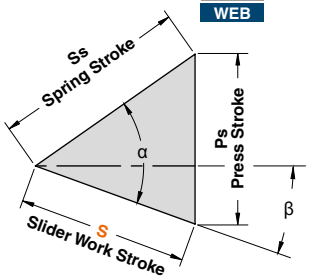
### X VIEW

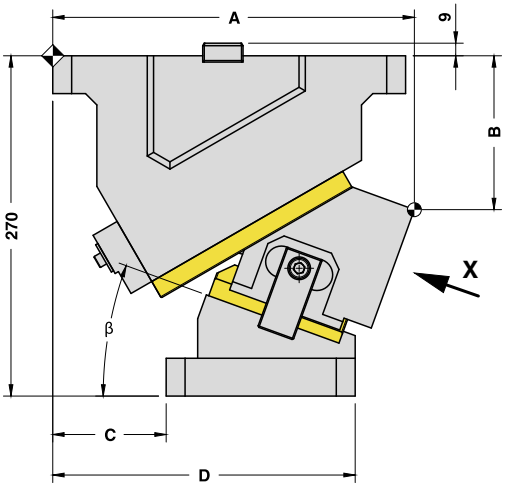


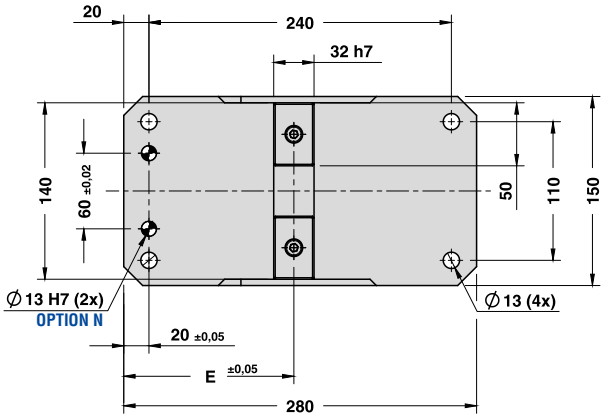

### CAM DIAGRAM

WEB

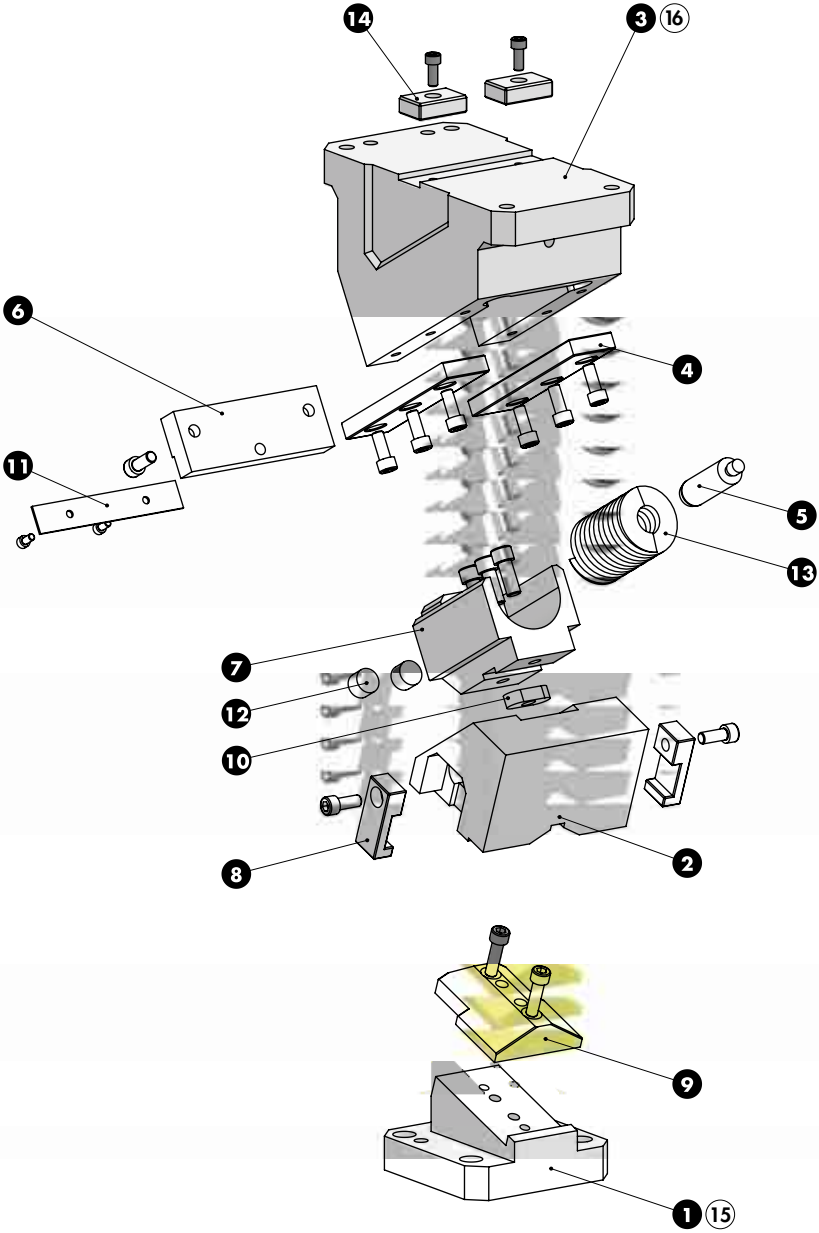



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 55° | 32,26 | 41,11 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 50° | 98,48 | 76,60 | 50 |
| 65° | 55° | 93,21 | 77,53 | 40 |
| 70° | 60° | 86,38 | 75,96 | 30 |

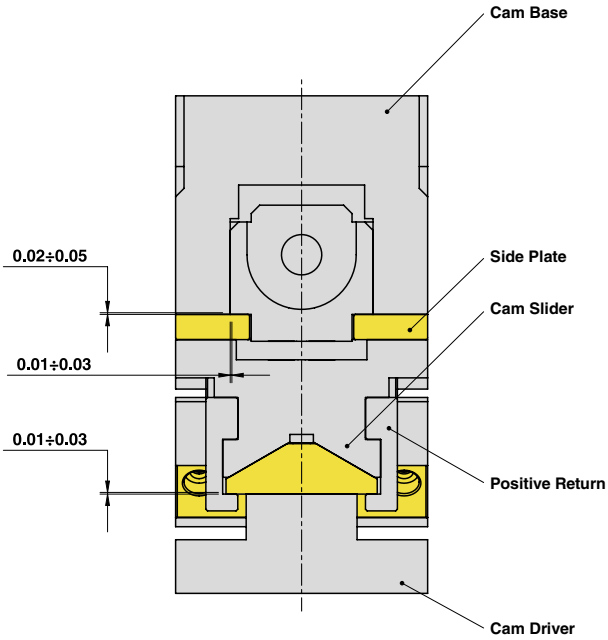


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Driver | GG-25 | 1 |
| 2 | Cam Slider | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 5 | Spring Guide Pin | 34CrMo4 | 1 |
| 6 | Stopper Plate | St44 | 1 |
| 7 | Spring Guide Block | GGG-45 + Graphite | 1 |
| 8 | Positive Return | CK45 | 2 |
| 9 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Key | CK45 | 1 |
| 11 | Safety Plate | St44 | 1 |
| 12 | Elastomer Cap | Elastomer 92SH | 2 |
| 13 | Spring | - | 1 |
| 14 | Key | CK45 | 2 |
| 15 | Cam Driver Fixing Screws M12x45 DIN 912 | - | 4 |
| 16 | Cam Base Fixing Screws M12x45 DIN 912 | - | 4 |



# Cam Units CLD
# Schieber CLD
# Unità a Camme CLD

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle β | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) Fs | Extraction Force (kN) Ef | Page number |
|---|---|---|---|---|---|---|---|
| **CLD052** | 0÷80° | 52 | 125 (0°÷70°)<br>150 (75°÷80°) | 52 x "I" | 31 | 0,18÷0,66 | 878 |

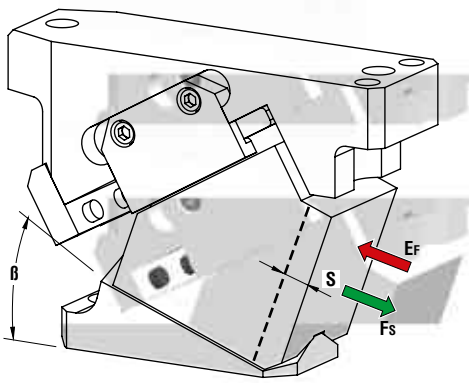






Employees competence

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) Spring |
|---|---|---|---|---|
| | β | S | Fs | Ef |
| CLD052.00 | 0° | 19,28 | 31 | 0,66 |
| CLD052.05 | 5° | 21,29 | 31 | 0,66 |
| CLD052.10 | 10° | 23,34 | 31 | 0,66 |
| CLD052.15 | 15° | 25,44 | 31 | 0,66 |
| CLD052.20 | 20° | 27,65 | 31 | 0,66 |
| CLD052.25 | 25° | 30 | 31 | 0,66 |
| CLD052.30 | 30° | 32,55 | 31 | 0,66 |
| CLD052.35 | 35° | 35,38 | 31 | 0,66 |
| CLD052.40 | 40° | 38,57 | 31 | 0,66 |
| CLD052.45 | 45° | 42,26 | 31 | 0,66 |
| CLD052.50 | 50° | 46,67 | 31 | 0,66 |
| CLD052.55 | 55° | 52,30 | 31 | 0,59 |
| CLD052.60 | 60° | 60 | 31 | 0,52 |
| CLD052.65 | 65° | 47,32 | 31 | 0,43 |
| CLD052.70 | 70° | 58,48 | 31 | 0,35 |
| CLD052.75 | 75° | 46,36 | 31 | 0,27 |
| CLD052.80 | 80° | 57,59 | 31 | 0,18 |

STEP WEB | CATIA WEB | WEB | P.624

| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |

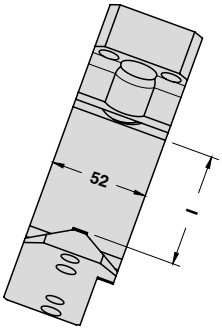
ORDER EXAMPLE

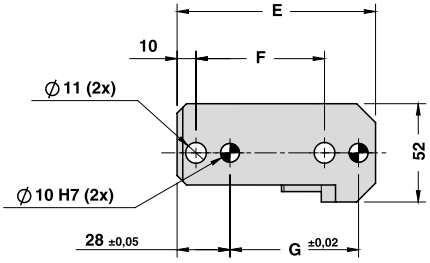
| | | OPTION CODE |
|---|---|---|
| Art. | Work Angle = 5° | SL |
| CLD052 | 05 | SL55 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | β | A | B | C | D | E | F | G | H | I |
| CLD052.00 | 0° | 150 | 43 | 45 | 150 | 105 | 68 | 68 | 125 | 60 |
| CLD052.05 | 5° | 153,10 | 45,21 | 42 | 147 | 105 | 68 | 68 | 125 | 60 |
| CLD052.10 | 10° | 153,55 | 47,83 | 37 | 142 | 105 | 68 | 68 | 125 | 60 |
| CLD052.15 | 15° | 153,32 | 50,82 | 32 | 137 | 105 | 68 | 68 | 125 | 60 |
| CLD052.20 | 20° | 153,38 | 55,10 | 27 | 132 | 105 | 68 | 68 | 125 | 60 |
| CLD052.25 | 25° | 154,71 | 58,62 | 20 | 125 | 105 | 68 | 68 | 125 | 60 |
| CLD052.30 | 30° | 153,28 | 63,31 | 17 | 122 | 105 | 68 | 68 | 125 | 60 |
| CLD052.35 | 35° | 152,09 | 67,10 | 10 | 115 | 105 | 68 | 68 | 125 | 60 |
| CLD052.40 | 40° | 149,14 | 71,93 | 4 | 109 | 105 | 68 | 68 | 125 | 60 |
| CLD052.45 | 45° | 145,41 | 75,73 | -4 | 101 | 105 | 68 | 68 | 125 | 60 |
| CLD052.50 | 50° | 143,92 | 79,43 | -9 | 96 | 105 | 68 | 68 | 125 | 60 |
| CLD052.55 | 55° | 144,67 | 82,97 | -10 | 95 | 105 | 68 | 68 | 125 | 60 |
| CLD052.60 | 60° | 150,69 | 90,28 | -9 | 96 | 105 | 68 | 68 | 125 | 60 |
| CLD052.65 | 65° | 130,16 | 99,54 | -45 | 60 | 105 | 68 | 68 | 125 | 60 |
| CLD052.70 | 70° | 133,62 | 106,97 | -40 | 65 | 105 | 68 | 68 | 125 | 60 |
| CLD052.75 | 75° | 148,74 | 124,59 | -30 | 81 | 111 | 55 | 55 | 150 | 70 |
| CLD052.80 | 80° | 148,74 | 124,59 | -30 | 80 | 110 | 55 | 55 | 150 | 70 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

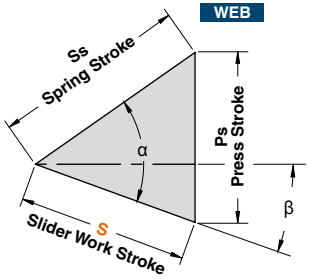
### X VIEW

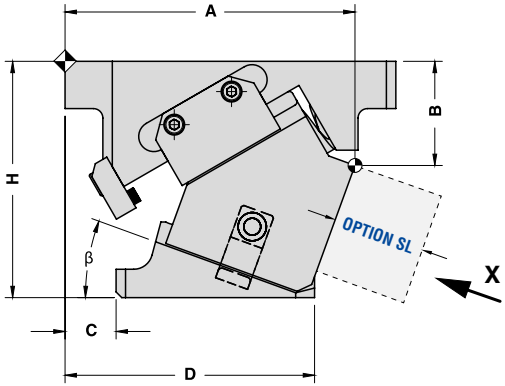


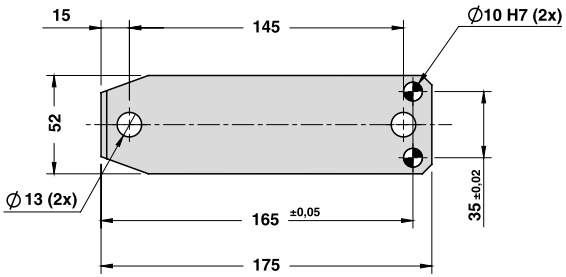

### CAM DIAGRAM

WEB

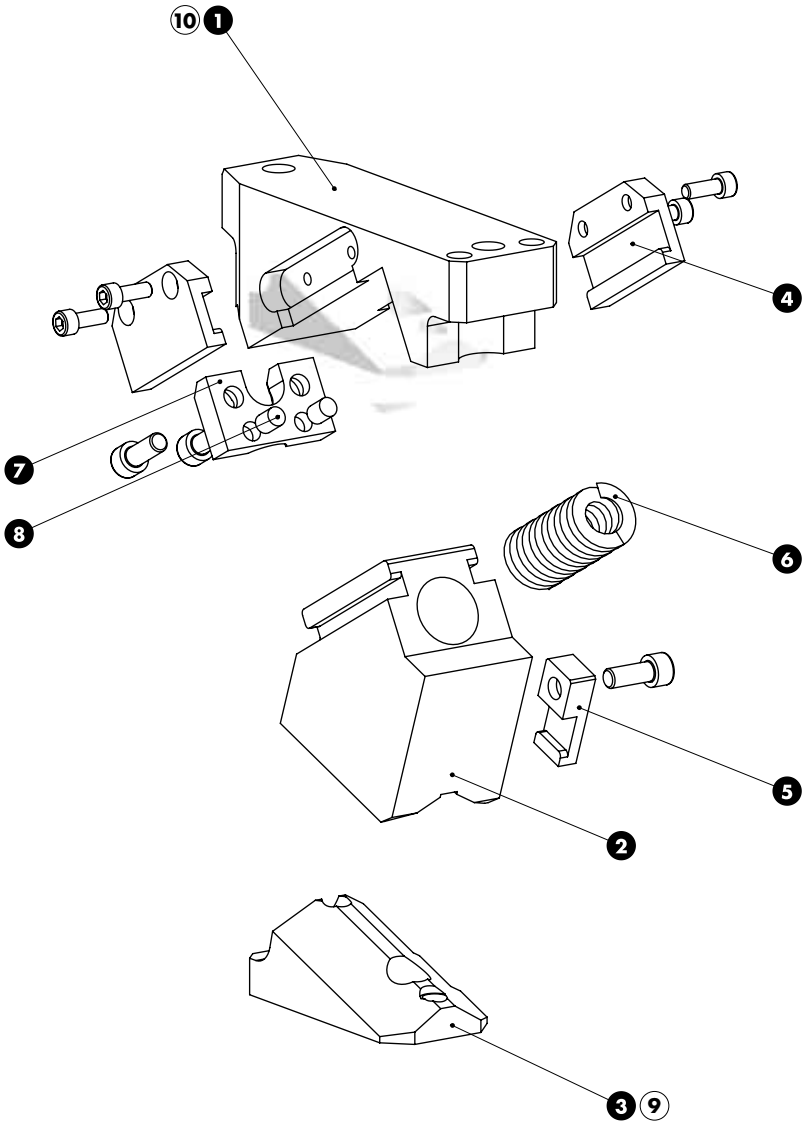



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 19,28 | 22,98 | 30 |
| 5° | 50° | 21,29 | 23,07 | 30 |
| 10° | 50° | 23,34 | 23,34 | 30 |
| 15° | 50° | 25,44 | 23,79 | 30 |
| 20° | 50° | 27,65 | 24,46 | 30 |
| 25° | 50° | 30,00 | 25,36 | 30 |
| 30° | 50° | 32,55 | 26,54 | 30 |
| 35° | 50° | 35,38 | 28,06 | 30 |
| 40° | 50° | 38,57 | 30,00 | 30 |
| 45° | 50° | 42,26 | 32,50 | 30 |
| 50° | 50° | 46,67 | 35,75 | 30 |
| 55° | 55° | 52,30 | 42,84 | 30 |
| 60° | 60° | 60,00 | 51,96 | 30 |
| 65° | 65° | 47,32 | 42,89 | 20 |
| 70° | 70° | 58,48 | 54,95 | 20 |
| 75° | 75° | 46,36 | 44,78 | 12 |
| 80° | 80° | 57,59 | 56,71 | 10 |

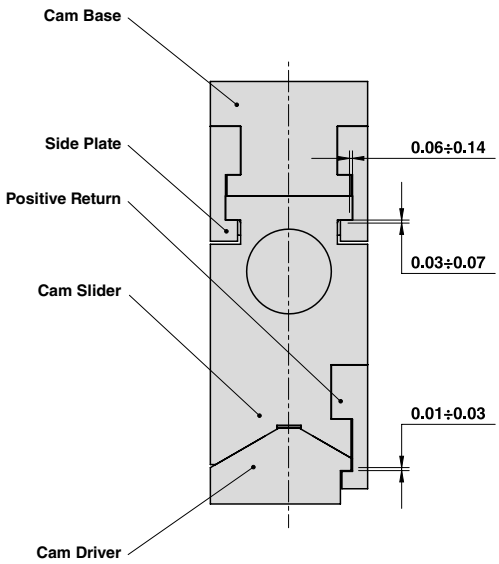


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES






## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GG-25 | 1 |
| 2 | Cam Slider | GG-25 + Graphite | 1 |
| 3 | Cam Driver | GG-25 | 1 |
| 4 | Side Plate | CK45 + Graphite | 2 |
| 5 | Positive Return | CK45 | 1 |
| 6 | Spring | - | 1 |
| 7 | Stopper Plate | St44 | 1 |
| 8 | Elastomer Cap | Elastomer 92SH | 2 |
| 9 | Cam Driver Fixing Screws M10x30 DIN 912 | - | 2 |
| 10 | Cam Base Fixing Screws M12x40 DIN 912 | - | 2 |



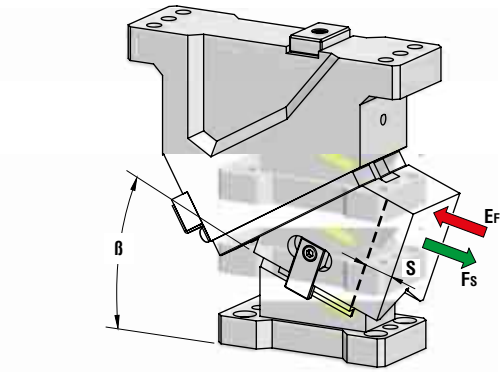
# Cam Units CLF
# Schieber CLF
# Unità a Camme CLF

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | Page number |
|---|---|---|---|---|---|---|---|
| | β | | | | $F_S$ | Ef | |
| **CLF080** | 0÷70° | 80 | 270 | 80x86 | 116 | 1,26÷2,72 | 884 |
| **CLF150** | 0÷70° | 150 | 270 | 150x85 | 192 | 3,66÷7,25 | 888 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Spring |
| CLF080.00 | 0° | 32,14 | 116 | 2,47 |
| CLF080.05 | 5° | 38,45 | 116 | 2,72 |
| CLF080.10 | 10° | 38,89 | 116 | 2,47 |
| CLF080.15 | 15° | 39,65 | 116 | 2,21 |
| CLF080.20 | 20° | 46,08 | 116 | 2,47 |
| CLF080.25 | 25° | 47,78 | 116 | 2,21 |
| CLF080.30 | 30° | 54,25 | 116 | 2,47 |
| CLF080.35 | 35° | 57,36 | 116 | 2,21 |
| CLF080.40 | 40° | 64,28 | 116 | 2,47 |
| CLF080.45 | 45° | 69,64 | 116 | 2,21 |
| CLF080.50 | 50° | 77,79 | 116 | 2,47 |
| CLF080.55 | 55° | 87,17 | 116 | 2,21 |
| CLF080.60 | 60° | 98,48 | 116 | 1,92 |
| CLF080.65 | 65° | 81,56 | 116 | 1,59 |
| CLF080.70 | 70° | 86,38 | 116 | 1,26 |

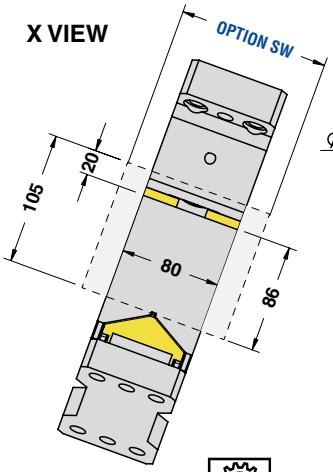
| OPTION CODE | |
|---|---|
| SL | 1 ÷ 60 (1mm steps) |
| SW | 100 or 120 mm |
| N | Ø 16 H7 |

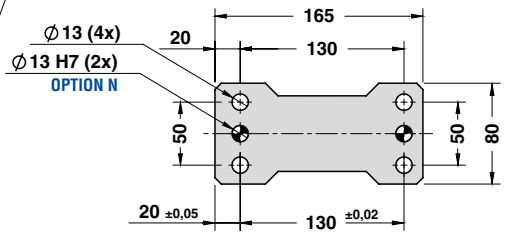
ORDER EXAMPLE

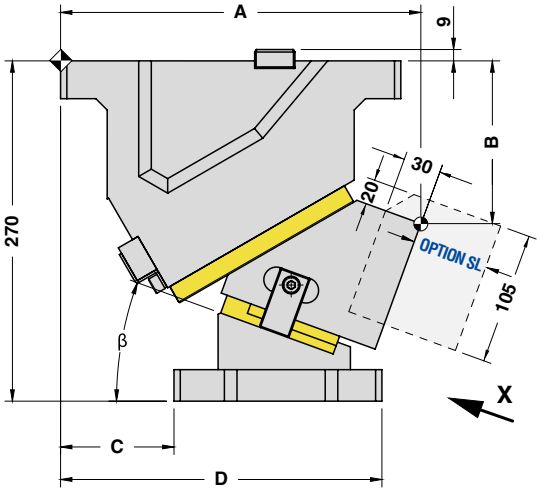
| Art. | Work Angle = 5° | OPTION CODE | | |
|---|---|---|---|---|
| | | SL | SW | N |
| CLF080 | 05 | SL55 | SW120 | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CLF080.00 | 0° | 260 | 99 | 100 | 265 | 130 |
| CLF080.05 | 5° | 272,93 | 109,39 | 100 | 265 | 150 |
| CLF080.10 | 10° | 279,92 | 120,43 | 100 | 265 | 150 |
| CLF080.15 | 15° | 285,93 | 132,04 | 100 | 265 | 150 |
| CLF080.20 | 20° | 285,90 | 129,12 | 90 | 255 | 170 |
| CLF080.25 | 25° | 289,80 | 141,60 | 90 | 255 | 170 |
| CLF080.30 | 30° | 282,59 | 134,36 | 75 | 240 | 170 |
| CLF080.35 | 35° | 284,27 | 147,32 | 75 | 240 | 170 |
| CLF080.40 | 40° | 274,80 | 140,38 | 60 | 225 | 170 |
| CLF080.45 | 45° | 274,20 | 153,44 | 60 | 225 | 170 |
| CLF080.50 | 50° | 262,46 | 151,39 | 35 | 200 | 170 |
| CLF080.55 | 55° | 259,60 | 164,14 | 35 | 200 | 170 |
| CLF080.60 | 60° | 240,64 | 176,59 | 0 | 165 | 170 |
| CLF080.65 | 65° | 235,61 | 188,65 | -5 | 160 | 170 |
| CLF080.70 | 70° | 227,83 | 195,53 | -10 | 155 | 170 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

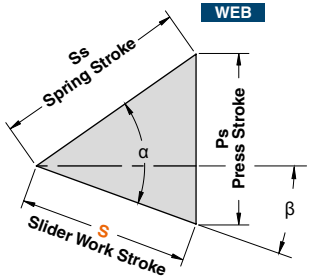


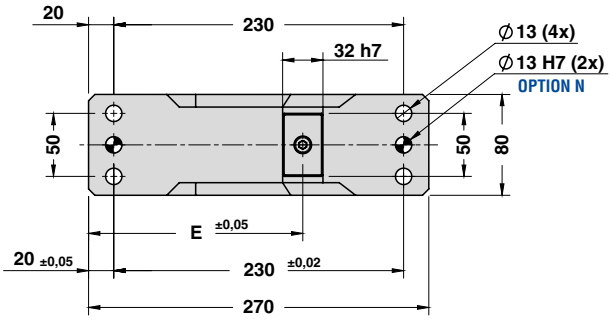




### CAM DIAGRAM

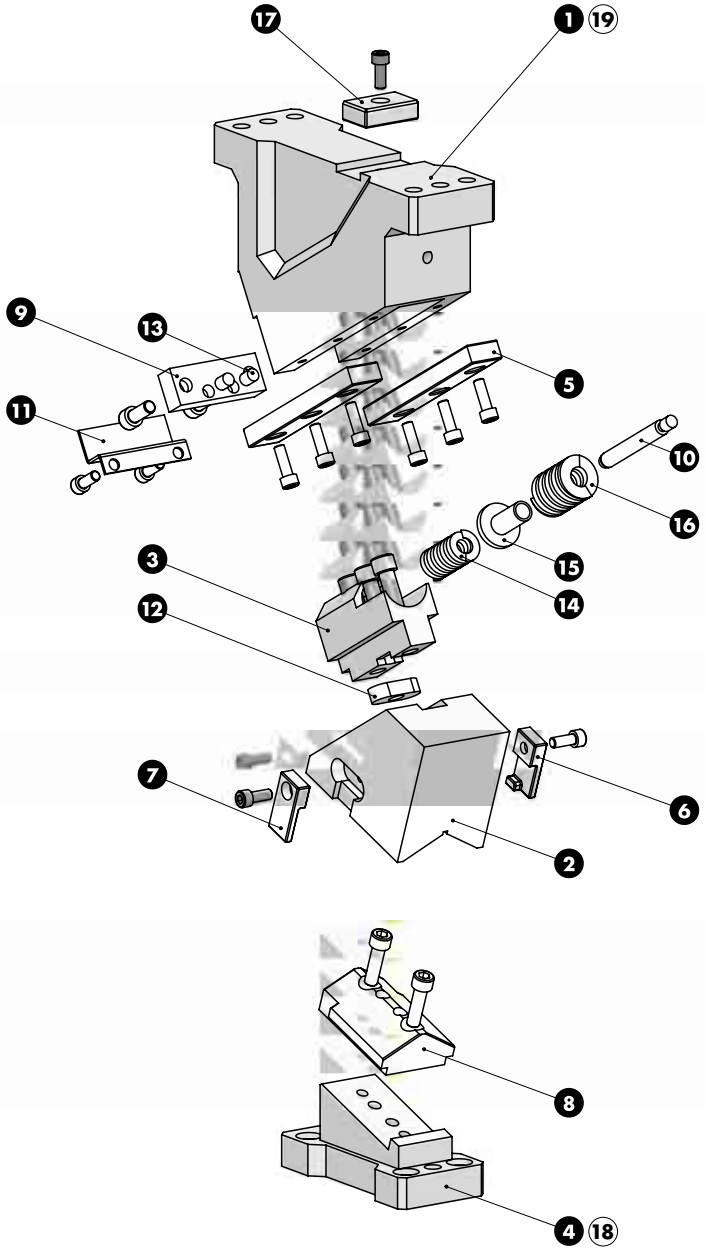
WEB




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 45° | 38,45 | 35,49 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 50° | 98,48 | 76,60 | 50 |
| 65° | 55° | 81,56 | 67,84 | 35 |
| 70° | 60° | 86,38 | 75,96 | 30 |

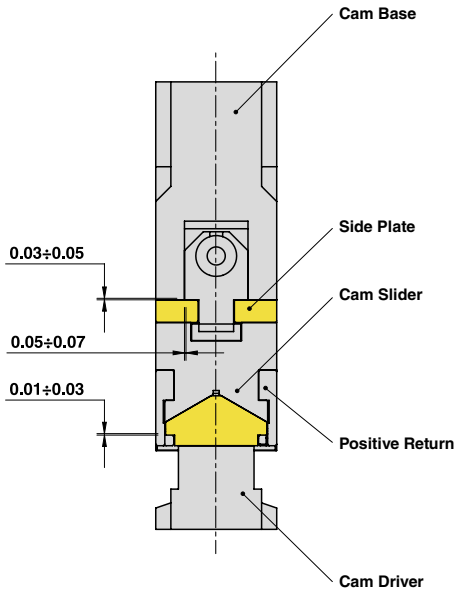


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



# AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

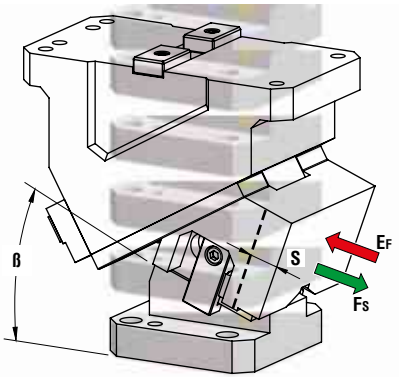
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | GGG-45 | 1 |
| 2 | Cam Slider | GG-25 | 1 |
| 3 | Spring Guide Block | GGG-45 + Graphite | 1 |
| 4 | Cam Driver | GG-25 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Positive Return R | CK45 | 1 |
| 7 | Positive Return L | CK45 | 1 |
| 8 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Stopper Plate | St44 | 1 |
| 10 | Spring Guide Pin | 34CrMo4 | 1 |
| 11 | Safety Plate | St44 | 1 |
| 12 | Key | CK45 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 2 |
| 14 | Spring | - | 1 |
| 15 | Spring Spacer | CK45 | 1 |
| 16 | Spring | - | 1 |
| 17 | Key | CK45 | 1 |
| 18 | Cam Driver Fixing Screws M12x40 DIN 912 | - | 4 |
| 19 | Cam Base Fixing Screws M12x45 DIN 912 | - | 4 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA




STEP WEB | CATIA WEB | WEB | P.682

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | FS | Spring |
| CLF150.00 | 0° | 32,14 | 192 | 7,25 |
| CLF150.05 | 5° | 32,26 | 192 | 6,47 |
| CLF150.10 | 10° | 38,89 | 192 | 7,25 |
| CLF150.15 | 15° | 39,65 | 192 | 6,47 |
| CLF150.20 | 20° | 46,08 | 192 | 7,25 |
| CLF150.25 | 25° | 47,78 | 192 | 6,47 |
| CLF150.30 | 30° | 54,25 | 192 | 7,25 |
| CLF150.35 | 35° | 57,36 | 192 | 6,47 |
| CLF150.40 | 40° | 64,28 | 192 | 7,25 |
| CLF150.45 | 45° | 69,64 | 192 | 6,47 |
| CLF150.50 | 50° | 77,79 | 192 | 7,25 |
| CLF150.55 | 55° | 87,17 | 192 | 6,47 |
| CLF150.60 | 60° | 98,48 | 192 | 5,64 |
| CLF150.65 | 65° | 93,21 | 192 | 4,64 |
| CLF150.70 | 70° | 86,38 | 192 | 3,66 |

| OPTION CODE | |
|---|---|
| N | Ø 16 H7 |

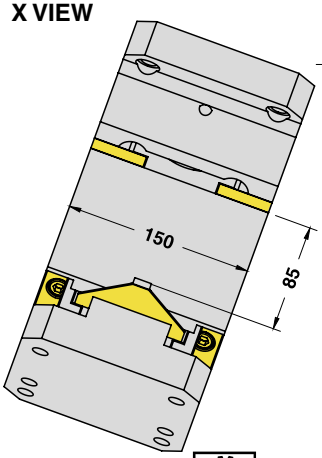
ORDER EXAMPLE

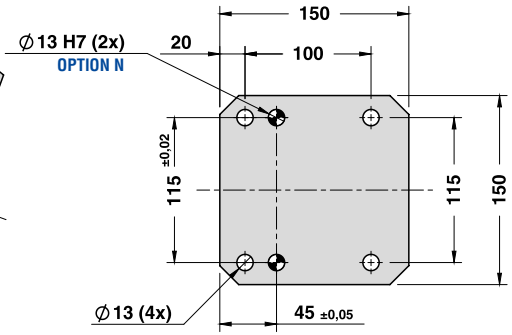
| Art. | Work Angle = 5° | OPTION CODE |
|---|---|---|
| CLF150 | 05 | N16 |

| OMCR CODE | Work Angle | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | β | A | B | C | D | E |
| CLF150.00 | 0° | 280 | 85 | 120 | 270 | 100 |
| CLF150.05 | 5° | 288,26 | 95,84 | 115 | 265 | 100 |
| CLF150.10 | 10° | 285,54 | 102,36 | 105 | 255 | 100 |
| CLF150.15 | 15° | 291,79 | 114,47 | 105 | 255 | 100 |
| CLF150.20 | 20° | 286,97 | 122,07 | 90 | 240 | 135 |
| CLF150.25 | 25° | 291,02 | 135,08 | 90 | 240 | 135 |
| CLF150.30 | 30° | 283,92 | 138,40 | 70 | 220 | 135 |
| CLF150.35 | 35° | 285,66 | 151,91 | 70 | 220 | 135 |
| CLF150.40 | 40° | 276,20 | 155,53 | 45 | 195 | 170 |
| CLF150.45 | 45° | 275,56 | 169,14 | 45 | 195 | 170 |
| CLF150.50 | 50° | 263,74 | 167,65 | 25 | 175 | 170 |
| CLF150.55 | 55° | 260,74 | 180,94 | 25 | 175 | 170 |
| CLF150.60 | 60° | 246,60 | 193,92 | 0 | 150 | 170 |
| CLF150.65 | 65° | 241,35 | 206,49 | 0 | 150 | 170 |
| CLF150.70 | 70° | 240,01 | 218,56 | -5 | 145 | 170 |

## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

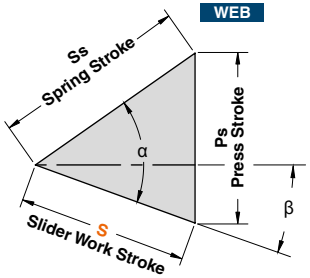
### X VIEW

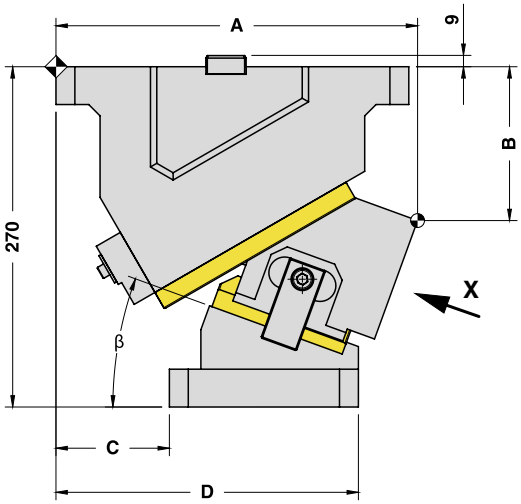


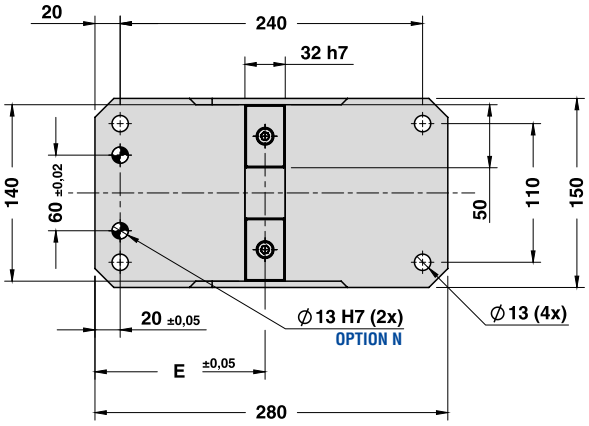

### CAM DIAGRAM

WEB

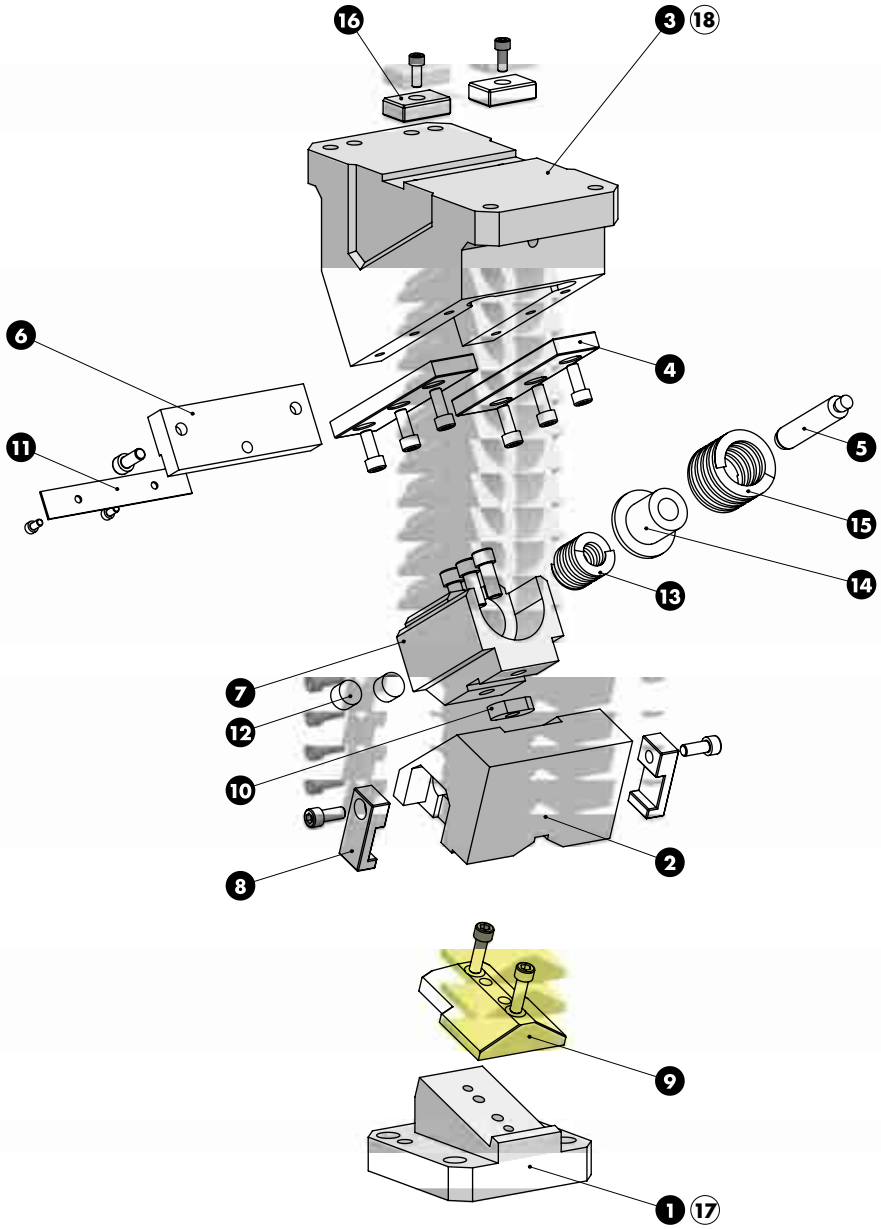



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 32,14 | 38,30 | 50 |
| 5° | 45° | 32,26 | 41,11 | 50 |
| 10° | 50° | 38,89 | 38,89 | 50 |
| 15° | 55° | 39,65 | 42,40 | 50 |
| 20° | 50° | 46,08 | 40,76 | 50 |
| 25° | 55° | 47,78 | 45,19 | 50 |
| 30° | 50° | 54,25 | 44,23 | 50 |
| 35° | 55° | 57,36 | 50,00 | 50 |
| 40° | 50° | 64,28 | 50,00 | 50 |
| 45° | 55° | 69,64 | 57,92 | 50 |
| 50° | 50° | 77,79 | 59,59 | 50 |
| 55° | 55° | 87,17 | 71,41 | 50 |
| 60° | 50° | 98,48 | 76,60 | 50 |
| 65° | 55° | 93,21 | 77,53 | 40 |
| 70° | 60° | 86,38 | 75,96 | 30 |

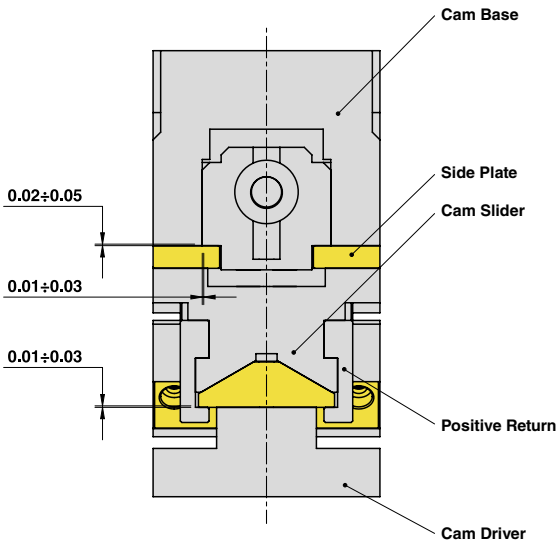


## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



## AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES






**PART LIST**

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Driver | GG-25 | 1 |
| 2 | Cam Slider | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 5 | Spring Guide Pin | 34CrMo4 | 1 |
| 6 | Stopper Plate | St44 | 1 |
| 7 | Spring Guide Block | GGG-45 + Graphite | 1 |
| 8 | Positive Return | CK45 | 2 |
| 9 | Male "V" Driver | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Key | CK45 | 1 |
| 11 | Safety Plate | St44 | 1 |
| 12 | Elastomer Cap | Elastomer 92SH | 2 |
| 13 | Spring | - | 1 |
| 14 | Spring Spacer | CK45 | 1 |
| 15 | Spring | - | 1 |
| 16 | Key | CK45 | 2 |
| 17 | Cam Driver Fixing Screws M12x45 DIN 912 | - | 4 |
| 18 | Cam Base Fixing Screws M12x45 DIN 912 | - | 4 |



# Cam Units CRX
# Schieber CRX
# Unità a Camme CRX

STAR CAM SERIES
HIGH PERFORMANCE

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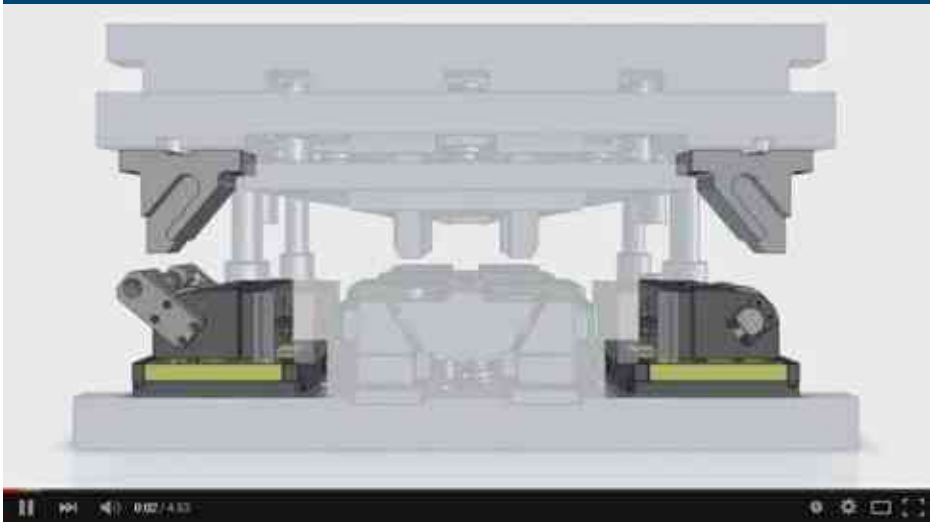
| OMCR CODE | Work Angle ß | Slider Width (mm) | Work Area W x H (mm) | Max Work Force $10^6$ cycles (kN) Fs | Extraction Force (kN) Ef | Page number |
|---|---|---|---|---|---|---|
| **CRX01** | -15°÷50° | 78 | 78x63 | 45 | 2,5÷3,4 | 894 |
| **CRX03** | -15°÷50° | 98 | 98x63 | 76 | 3,4÷3,6 | 900 |
| **CRX05** | -15°÷50° | 118 | 118x74 | 142 | 6,36÷6,46 | 906 |
| **CRX15** | -15°÷50° | 170 | 170x94 | 166 | 6,45÷6,61 | 912 |
| **CRX20** | -15°÷50° | 240 | 240x110 | 258 | 9,29÷9,38 | 918 |

## ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

| OMCR CODE | Roller Cam Model | Work Angle ß | Page number |
|---|---|---|---|
| **DCRX0100** | CRX01 | -15°÷50° (5° steps) | 924 |
| **DCRX0305** | CRX03 - CRX05 | -15°÷50° (5° steps) | 926 |
| **DCRX1520** | CRX15 - CRX20 | -15°÷50° (5° steps) | 928 |



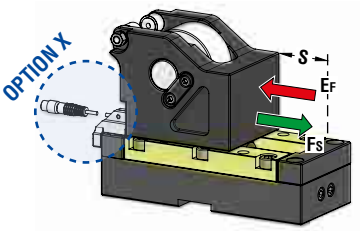
## 100% SAFETY WITH POSITIVE RETURN - 100 % SICHERHEIT MIT DER ZWANGSRÜCKHOLUNG 100% SICURA CON IL GANCIO DI RITORNO



YouTube

CRX: how does it work?
CRX: wie funktioniert es?
CRX: come funziona?

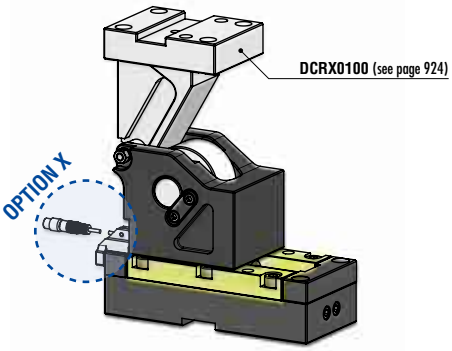
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO




| OMCR CODE | Stroke (mm) | Max Work Force (kN) | Extraction Force (kN) |
|---|---|---|---|
| | | | Ef |
| | S | Fs | Gas Spring |
| CRX01.030 | 30 | 45 | 2,5 |
| CRX01.050 | 48 | 45 | 3,4 |

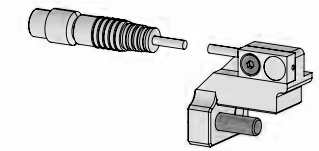
3D STEP WEB | WEB | P.682

### With Driver - OPTION DRIVER




| OPTION DRIVER | Work angle (β) |
|---|---|
| H15 | -15° |
| H10 | -10° |
| H05 | -5° |
| 000 | 0 |
| L05 | 5° |
| L10 | 10° |
| L15 | 15° |
| L20 | 20° |
| L25 | 25° |
| L30 | 30° |
| L35 | 35° |
| L40 | 40° |
| L45 | 45° |
| L50 | 50° |

### Back Position Check - OPTION X



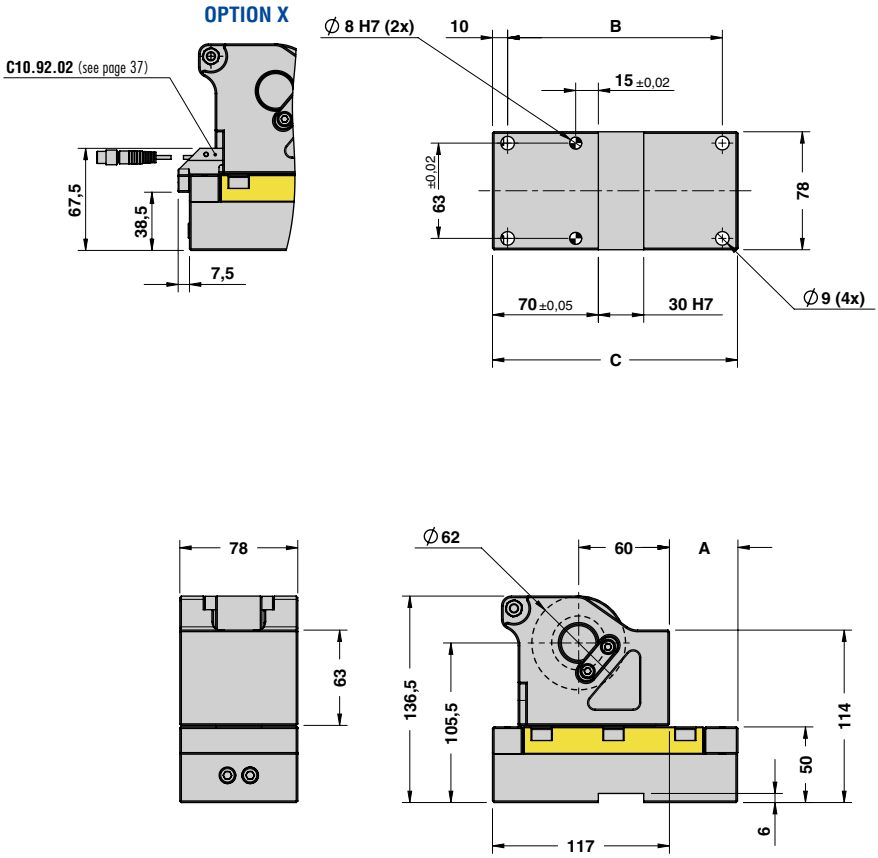
Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

STOCK | ORDER EXAMPLE

| Art. | OPTION DRIVER | OPTION X |
|---|---|---|
| CRX01.050 | 000 | X |

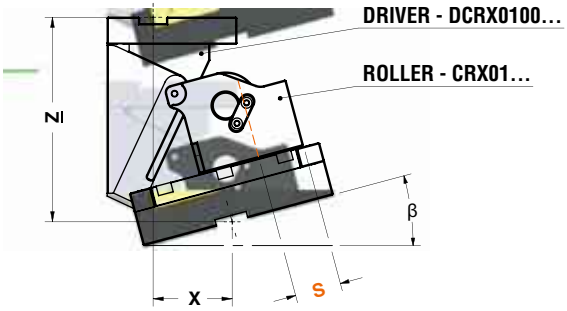
| OMCR CODE | Stroke (mm) | Overall Dimensions (mm) | | |
|---|---|---|---|---|
| | S | A | B | C |
| CRX01.030 | 30 | 45 | 142 | 162 |
| CRX01.050 | 48 | 65 | 162 | 182 |

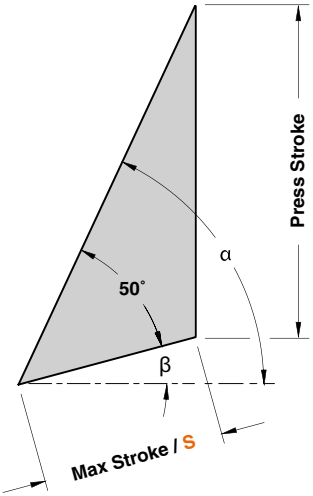
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



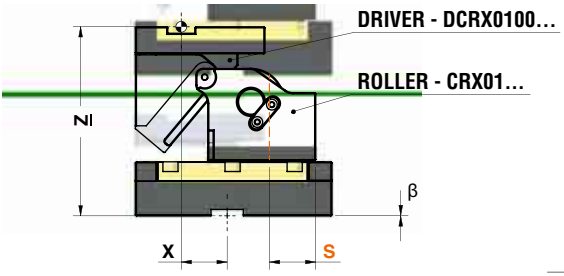
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

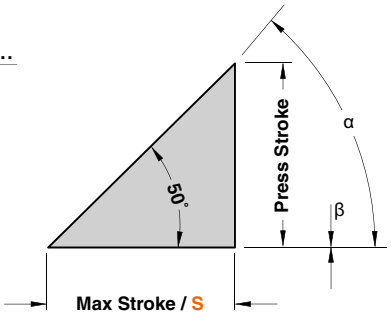
### WORK ANGLE (β) FROM -5° TO -15°



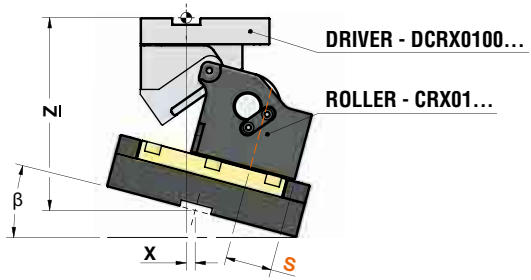



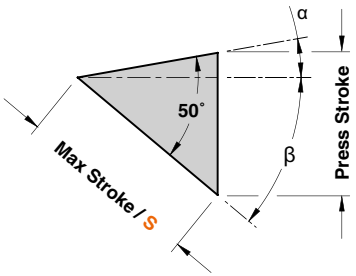

### WORK ANGLE (β)=0°




### WORK ANGLE (β) FROM 5° TO 50°



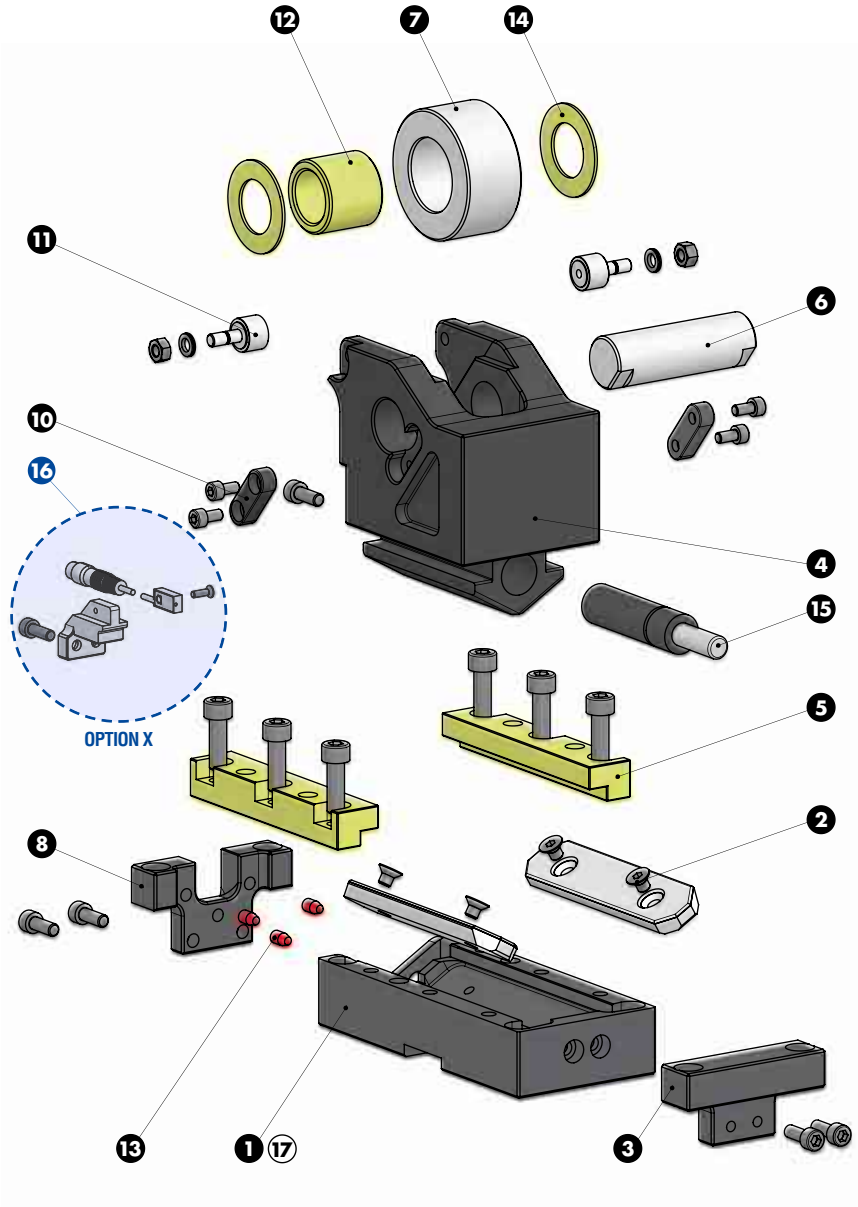



## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 894 / Weitere Informationen finden Sie auf der Seite 894 / Per maggiori informazioni consultare la pagina 894

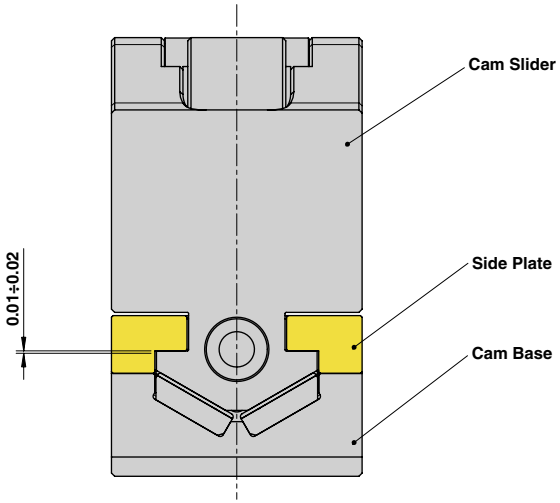
| ROLLER CAM CODE | Work Angle β | α | Max Stroke S (mm) | Press Stroke (mm) | *CAM DRIVER CODE | X (mm) | Z (mm) |
|---|---|---|---|---|---|---|---|
| CRX01.030 | -15° | 65° | 30 | 54,4 | DCRX0100.30.H15 | 73,20 | 175,60 |
| | -10° | 60° | 30 | 46,0 | DCRX0100.30.H10 | 63,49 | 174,00 |
| | -5° | 55° | 30 | 40,1 | DCRX0100.30.H05 | 53,23 | 169,90 |
| | 0° | 50° | 30 | 35,8 | DCRX0100.30.000 | 42,50 | 175,00 |
| | 5° | 45° | 30 | 32,5 | DCRX0100.30.L05 | 31,37 | 172,50 |
| | 10° | 40° | 30 | 30,0 | DCRX0100.30.L10 | 19,93 | 175,00 |
| | 15° | 35° | 30 | 28,1 | DCRX0100.30.L15 | 8,27 | 176,94 |
| | 20° | 30° | 30 | 26,5 | DCRX0100.30.L20 | -3,52 | 178,46 |
| | 25° | 25° | 30 | 25,4 | DCRX0100.30.L25 | -15,36 | 174,64 |
| | 30° | 20° | 30 | 24,5 | DCRX0100.30.L30 | -27,15 | 173,54 |
| | 35° | 15° | 30 | 23,8 | DCRX0100.30.L35 | -38,80 | 171,21 |
| | 40° | 10° | 30 | 23,3 | DCRX0100.30.L40 | -50,23 | 166,66 |
| | 45° | 5° | 30 | 23,1 | DCRX0100.30.L45 | -61,35 | 161,93 |
| | 50° | 0° | 30 | 23,0 | DCRX0100.30.L50 | -72,07 | 157,02 |
| CRX01.050 | -15° | 65° | 50 | 87,01 | DCRX0100.50.H15 | 73,20 | 192,99 |
| | -10° | 60° | 50 | 73,54 | DCRX0100.50.H10 | 63,49 | 186,46 |
| | -5° | 55° | 50 | 64,11 | DCRX0100.50.H05 | 53,23 | 190,09 |
| | 0° | 50° | 50 | 57,2 | DCRX0100.50.000 | 42,50 | 177,38 |
| | 5° | 45° | 50 | 52 | DCRX0100.50.L05 | 31,37 | 182,00 |
| | 10° | 40° | 50 | 48 | DCRX0100.50.L10 | 19,93 | 177,00 |
| | 15° | 35° | 50 | 44,89 | DCRX0100.50.L15 | 8,27 | 179,81 |
| | 20° | 30° | 50 | 42,46 | DCRX0100.50.L20 | -3,52 | 177,54 |
| | 25° | 25° | 50 | 40,57 | DCRX0100.50.L25 | -15,36 | 174,43 |
| | 30° | 20° | 50 | 39,13 | DCRX0100.50.L30 | -27,15 | 170,87 |
| | 35° | 15° | 50 | 38,07 | DCRX0100.50.L35 | -38,80 | 171,93 |
| | 40° | 10° | 50 | 37,34 | DCRX0100.50.L40 | -50,23 | 162,66 |
| | 45° | 5° | 50 | 36,91 | DCRX0100.50.L45 | -61,35 | 158,09 |
| | 50° | 0° | 50 | 36,77 | DCRX0100.50.L50 | -72,07 | 153,23 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



# ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

## SLIDER STRUCTURE AND CLEARANCES

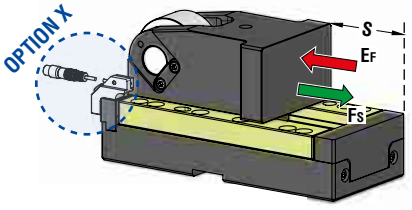



## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Wear Plate | St42 + Syntered layer | 2 |
| 3 | Spring Stopper Plate | CK45 | 1 |
| 4 | Cam Slider | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Pin | 16NiCrMo4 | 1 |
| 7 | Roller | 100Cr6 | 1 |
| 8 | Stopper Plate | CK45 | 1 |
| 10 | Key | CK45 | 2 |
| 11 | Roller KRV16PPA | CK45 | 2 |
| 12 | Self-Lubricating Bush | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 3 |
| 14 | Washer PCMW 264401.5M | - | 2 |
| 15 | Gas Spring | - | 1 |
| 16 | Back Position Check - OPTION X | - | 1 |
| 17 | Cam Base Fixing Screws M8x30 DIN 912 | - | 4 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

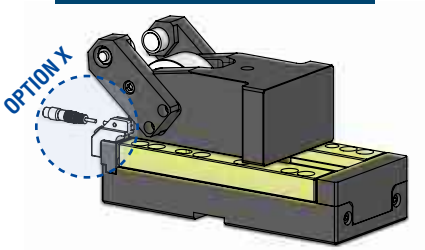
### Without Positive Return - **OPTION K**



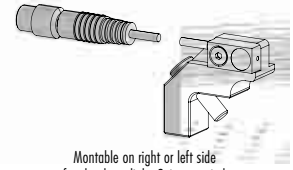

| OMCR CODE | Stroke (mm) | Max Work Force (kN) | Extraction Force (kN) |
|---|---|---|---|
| | | | Ef |
| | S | Fs | Gas Spring |
| CRX03.050 | 48 | 76 | 3,4 |
| CRX03.080 | 78 | 76 | 3,4 |
| CRX03.100 | 98 | 76 | 3,6 |

3D STEP WEB | WEB | P.682

### With Positive Return - **OPTION P**

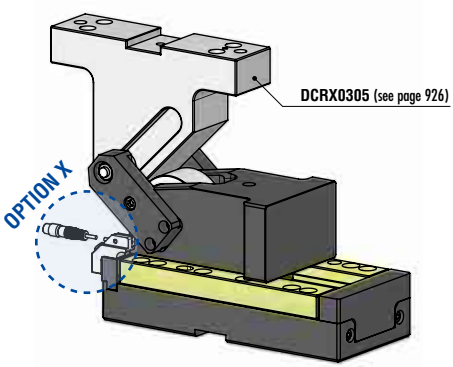



### Back Position Check - **OPTION X**



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

### With Driver - **OPTION DRIVER**



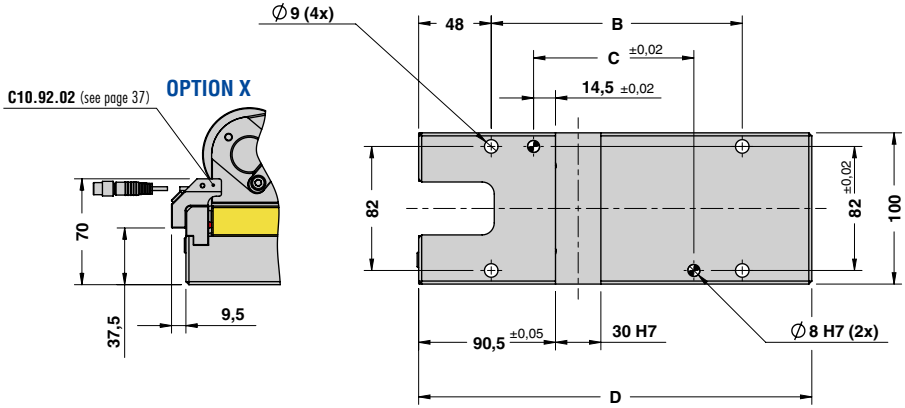

| OPTION DRIVER | Work angle (β) |
|---|---|
| H15 | -15° |
| H10 | -10° |
| H05 | -5° |
| 000 | 0 |
| L05 | 5° |
| L10 | 10° |
| L15 | 15° |
| L20 | 20° |
| L25 | 25° |
| L30 | 30° |
| L35 | 35° |
| L40 | 40° |
| L45 | 45° |
| L50 | 50° |

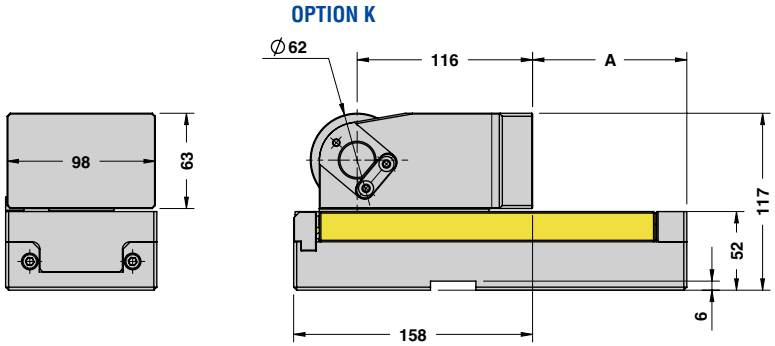
STOCK | ORDER EXAMPLE

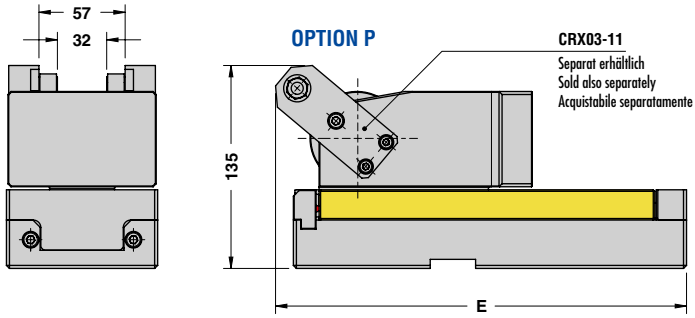
| Art. | OPTION K-P | OPTION DRIVER | OPTION X |
|---|---|---|---|
| CRX03.080 | P | 000 | X |

| OMCR CODE | Stroke (mm) | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | S | A | B | C | D | E |
| CRX03.050 | 48 | 42 | 116 | 56 | 200 | 212 |
| CRX03.080 | 78 | 72 | 146 | 86 | 230 | 242 |
| CRX03.100 | 98 | 102 | 166 | 106 | 260 | 272 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

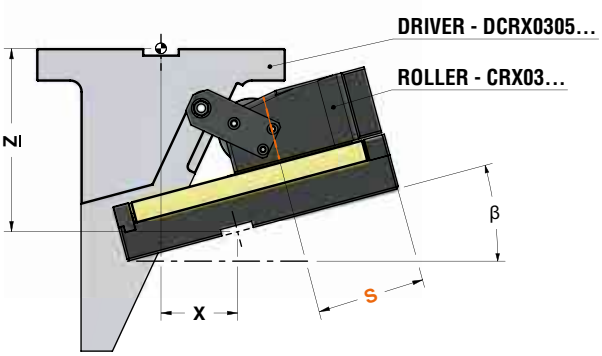


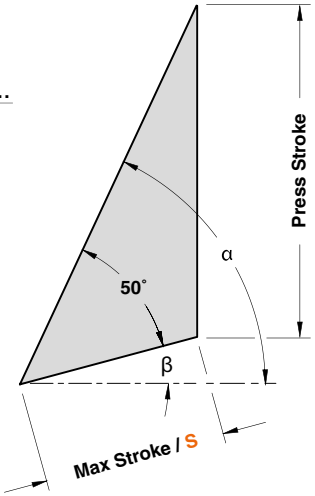



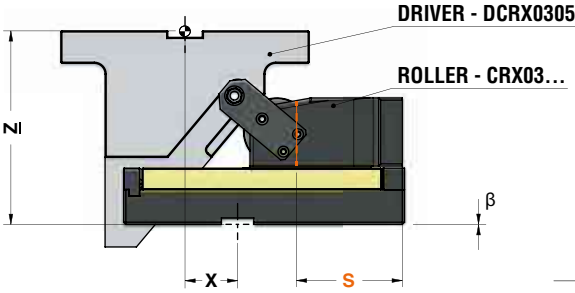
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

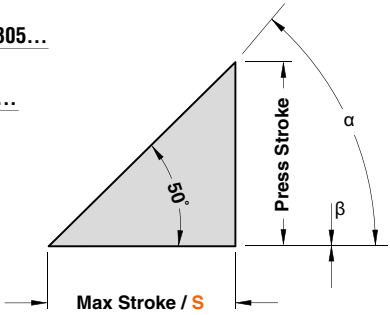
### WORK ANGLE (β) FROM -5° TO -15°



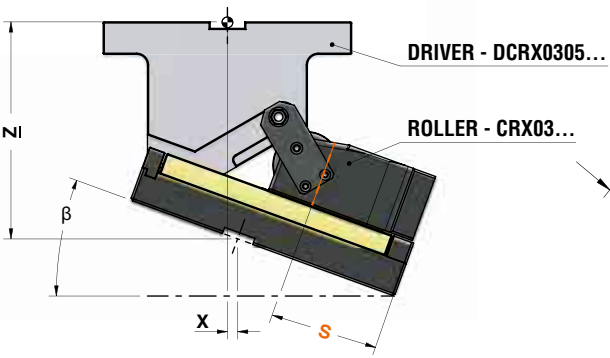



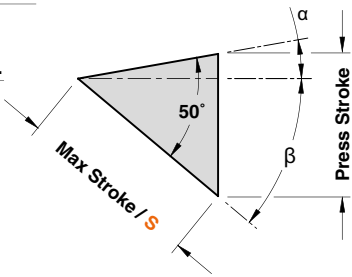

### WORK ANGLE (β)=0°




### WORK ANGLE (β) FROM 5° TO 50°



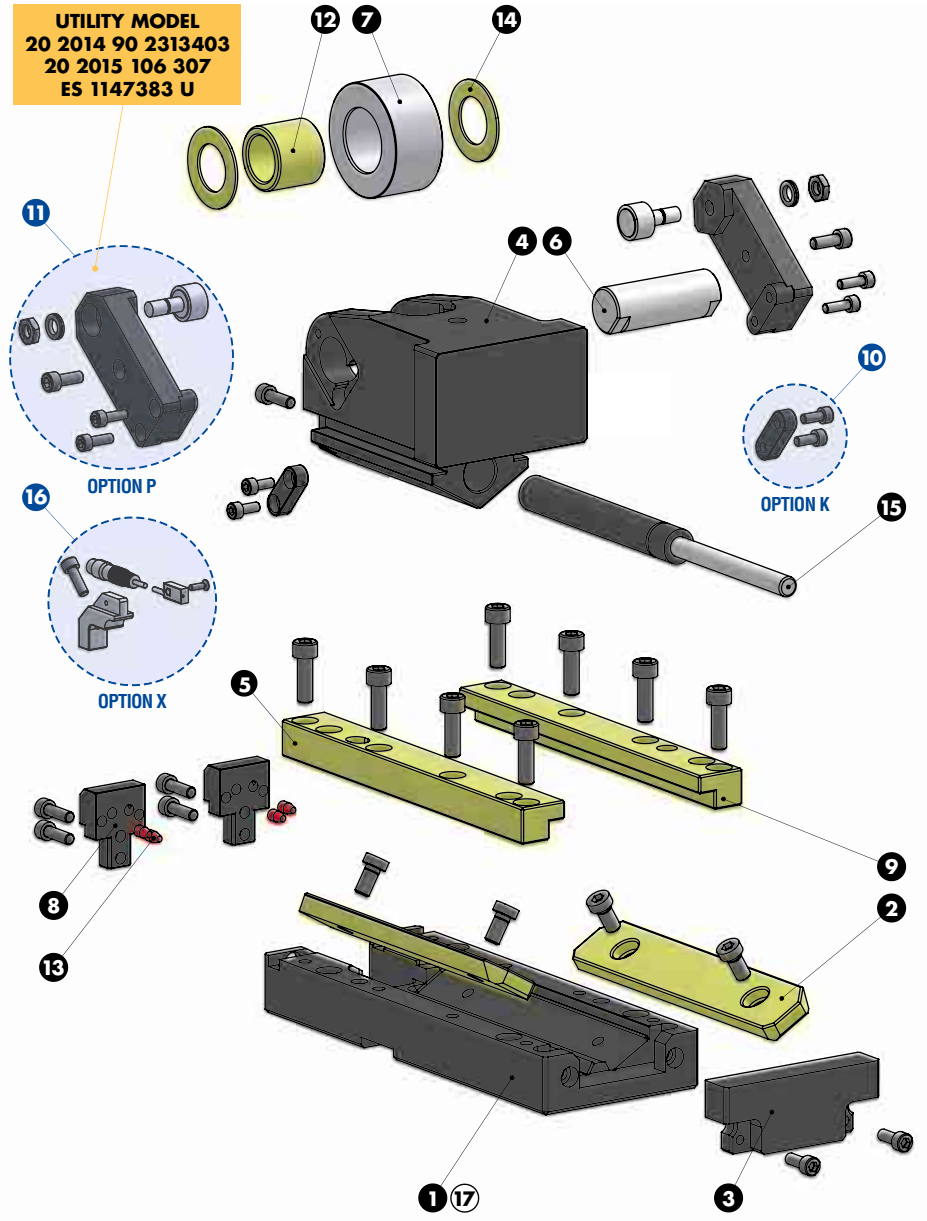



## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 926 / Weitere Informationen finden Sie auf der Seite 926 / Per maggiori informazioni consultare la pagina 926

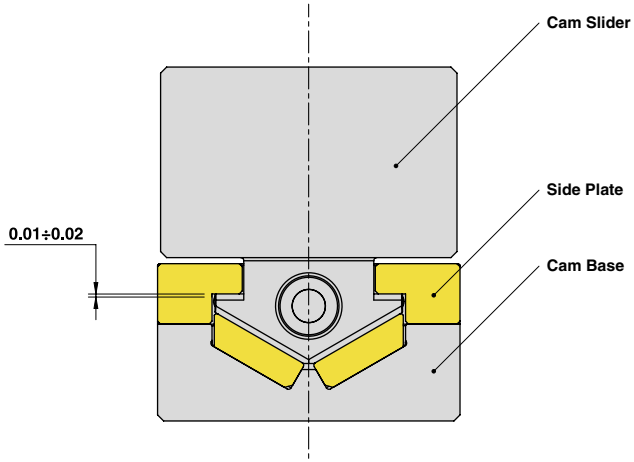
| ROLLER CAM CODE | Work Angle β | α | Max Stroke S (mm) | Press Stroke (mm) | *CAM DRIVER CODE | X (mm) | Z (mm) |
|---|---|---|---|---|---|---|---|
| CRX03.050 | -15° | 65° | 50 | 87,01 | DCRX0305.50.H15 | 95,92 | 168,66 |
| | -10° | 60° | 50 | 73,54 | DCRX0305.50.H10 | 89,32 | 171,96 |
| | -5° | 55° | 50 | 64,11 | DCRX0305.50.H05 | 81,88 | 180,63 |
| | 0° | 50° | 50 | 57,2 | DCRX0305.50.000 | 73,68 | 186,06 |
| | 5° | 45° | 50 | 52 | DCRX0305.50.L05 | 64,75 | 189,06 |
| | 10° | 40° | 50 | 48 | DCRX0305.50.L10 | 55,19 | 195,04 |
| | 15° | 35° | 50 | 44,89 | DCRX0305.50.L15 | 45,05 | 199,27 |
| | 20° | 30° | 50 | 42,46 | DCRX0305.50.L20 | 34,42 | 201,92 |
| | 25° | 25° | 50 | 40,57 | DCRX0305.50.L25 | 23,37 | 198,08 |
| | 30° | 20° | 50 | 39,13 | DCRX0305.50.L30 | 11,99 | 192,81 |
| | 35° | 15° | 50 | 38,07 | DCRX0305.50.L35 | 0,37 | 191,16 |
| | 40° | 10° | 50 | 37,34 | DCRX0305.50.L40 | -11,40 | 188,15 |
| | 45° | 5° | 50 | 36,91 | DCRX0305.50.L45 | -23,25 | 183,81 |
| | 50° | 0° | 50 | 36,77 | DCRX0305.50.L50 | -35,06 | 178,15 |
| CRX03.080 | -15° | 65° | 80 | 141,38 | DCRX0305.80.H15 | 70,92 | 209,28 |
| | -10° | 60° | 80 | 119,5 | DCRX0305.80.H10 | 64,32 | 211,00 |
| | -5° | 55° | 80 | 104,17 | DCRX0305.80.H05 | 56,88 | 205,56 |
| | 0° | 50° | 80 | 92,96 | DCRX0305.80.000 | 48,68 | 205,30 |
| | 5° | 45° | 80 | 84,5 | DCRX0305.80.L05 | 39,75 | 201,56 |
| | 10° | 40° | 80 | 78 | DCRX0305.80.L10 | 30,19 | 210,04 |
| | 15° | 35° | 80 | 72,94 | DCRX0305.80.L15 | 20,05 | 216,22 |
| | 20° | 30° | 80 | 69 | DCRX0305.80.L20 | 9,42 | 220,38 |
| | 25° | 25° | 80 | 65,93 | DCRX0305.80.L25 | -1,63 | 217,72 |
| | 30° | 20° | 80 | 63,59 | DCRX0305.80.L30 | -13,01 | 213,35 |
| | 35° | 15° | 80 | 61,86 | DCRX0305.80.L35 | -24,63 | 202,37 |
| | 40° | 10° | 80 | 60,67 | DCRX0305.80.L40 | -36,40 | 189,82 |
| | 45° | 5° | 80 | 59,98 | DCRX0305.80.L45 | -48,25 | 180,74 |
| | 50° | 0° | 80 | 59,75 | DCRX0305.80.L50 | -60,06 | 170,17 |
| CRX03.100 | -15° | 65° | 100 | 177,64 | DCRX0305.80.H15 | 70,92 | 173,03 |
| | -10° | 60° | 100 | 150,14 | DCRX0305.80.H10 | 64,32 | 180,35 |
| | -5° | 55° | 100 | 130,88 | DCRX0305.80.H05 | 56,88 | 178,85 |
| | 0° | 50° | 100 | 116,79 | DCRX0305.80.000 | 48,68 | 181,47 |
| | 5° | 45° | 100 | 106,17 | DCRX0305.80.L05 | 39,75 | 179,89 |
| | 10° | 40° | 100 | 98 | DCRX0305.80.L10 | 30,19 | 191,02 |
| | 15° | 35° | 100 | 91,65 | DCRX0305.80.L15 | 20,05 | 197,52 |
| | 20° | 30° | 100 | 86,69 | DCRX0305.80.L20 | 9,42 | 202,69 |
| | 25° | 25° | 100 | 82,83 | DCRX0305.80.L25 | -1,63 | 200,81 |
| | 30° | 20° | 100 | 79,89 | DCRX0305.80.L30 | -13,01 | 197,05 |
| | 35° | 15° | 100 | 77,72 | DCRX0305.80.L35 | -24,63 | 186,50 |
| | 40° | 10° | 100 | 76,23 | DCRX0305.80.L40 | -36,40 | 174,26 |
| | 45° | 5° | 100 | 75,36 | DCRX0305.80.L45 | -48,25 | 165,36 |
| | 50° | 0° | 100 | 75,07 | DCRX0305.80.L50 | -60,06 | 154,85 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



# ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

## SLIDER STRUCTURE AND CLEARANCES



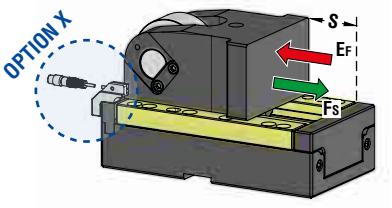



## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 3 | Spring Stopper Plate | CK45 | 1 |
| 4 | Cam Slider | CK45 | 1 |
| 5 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Pin | 16NiCrMo4 | 1 |
| 7 | Roller | 100Cr6 | 1 |
| 8 | Stopper Plate | CK45 | 2 |
| 9 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Key - OPTION K | CK45 | 2 |
| 11 | Positive Return + Roller KRV19PPA - OPTION P | CK45 | 2 |
| 12 | Self-Lubricating Bush | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 4 |
| 14 | Washer PCMW 264401.5M | - | 2 |
| 15 | Gas Spring | - | 1 |
| 16 | Back Position Check - OPTION X | - | 1 |
| 17 | Cam Base Fixing Screws M8x30 DIN 912 | - | 4 |

# ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

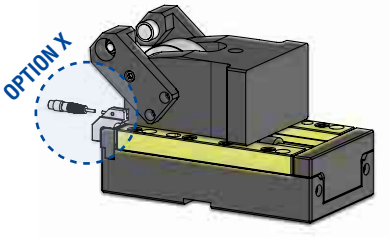
## Without Positive Return - **OPTION K**



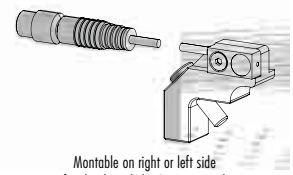

| OMCR CODE | Stroke (mm) | Max Work Force (kN) | Extraction Force (kN) |
|---|---|---|---|
| | | | Ef |
| | S | Fs | Gas Spring |
| CRX05.050 | 48 | 142 | 6,36 |
| CRX05.080 | 78 | 142 | 6,43 |
| CRX05.100 | 98 | 142 | 6,46 |

3D STEP WEB | WEB | P.682

## With Positive Return - **OPTION P**

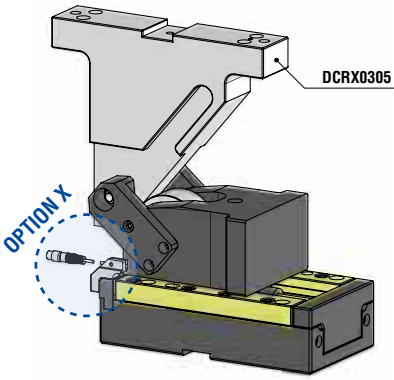



## Back Position Check - **OPTION X**



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

## With Driver - **OPTION DRIVER**



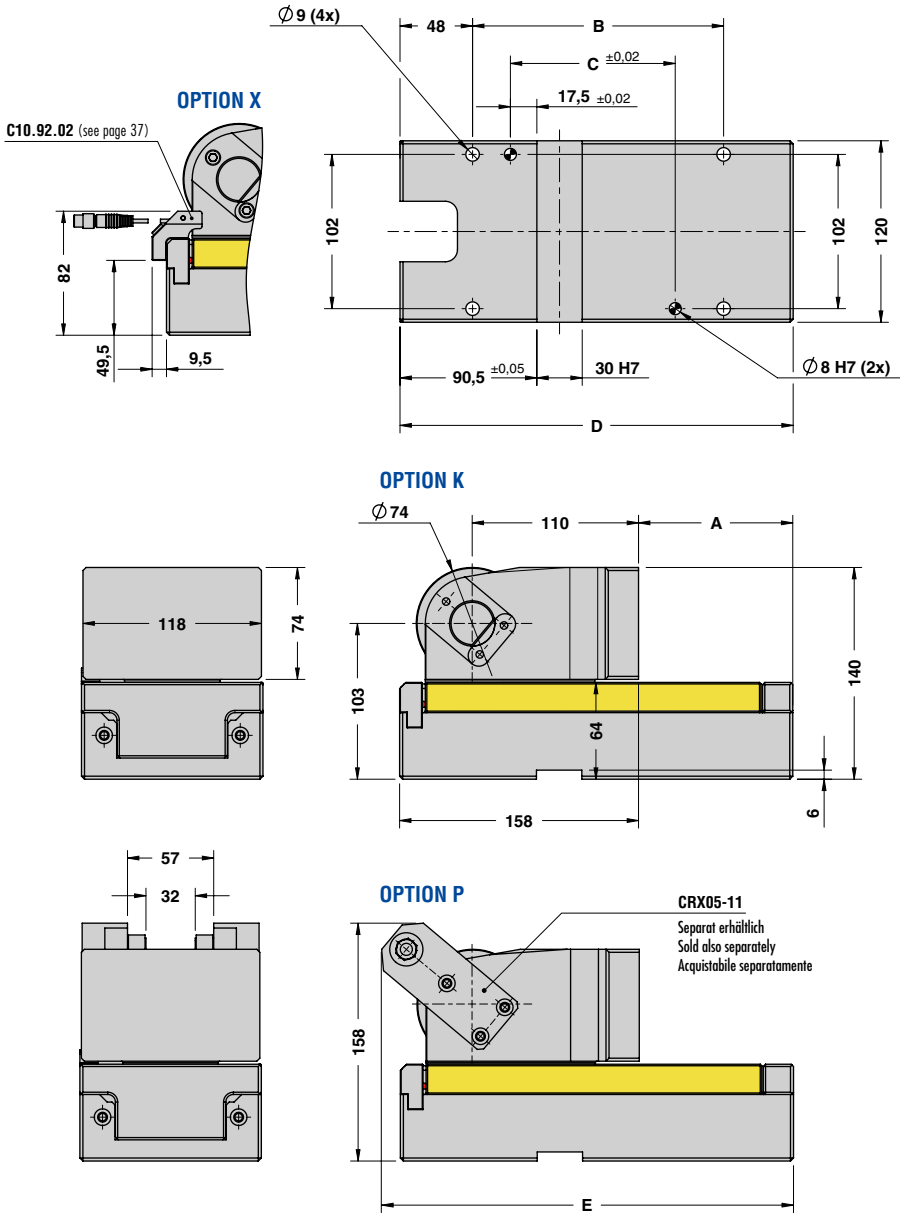

| OPTION DRIVER | Work angle (β) |
|---|---|
| H15 | -15° |
| H10 | -10° |
| H05 | -5° |
| 000 | 0 |
| L05 | 5° |
| L10 | 10° |
| L15 | 15° |
| L20 | 20° |
| L25 | 25° |
| L30 | 30° |
| L35 | 35° |
| L40 | 40° |
| L45 | 45° |
| L50 | 50° |

STOCK | ORDER EXAMPLE

| Art. | OPTION K-P | OPTION DRIVER | OPTION X |
|---|---|---|---|
| CRX05.080 | P | 000 | X |

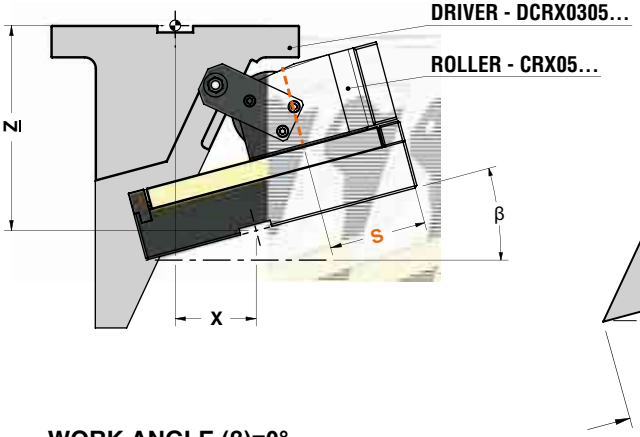
| OMCR CODE | Stroke (mm) | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | S | A | B | C | D | E |
| CRX05.050 | 48 | 42 | 116 | 59 | 200 | 213 |
| CRX05.080 | 78 | 72 | 146 | 89 | 230 | 243 |
| CRX05.100 | 98 | 102 | 166 | 109 | 260 | 273 |

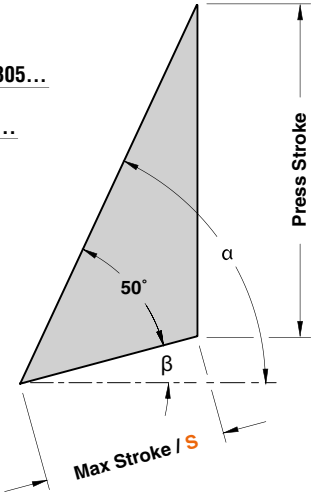
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



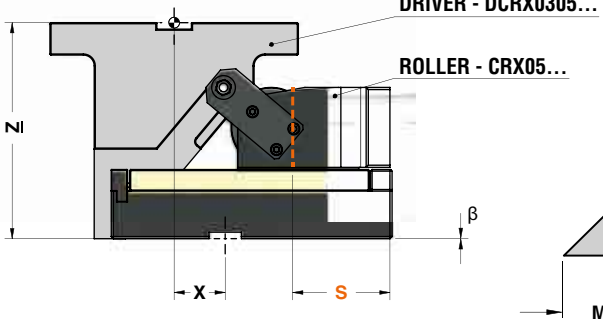
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

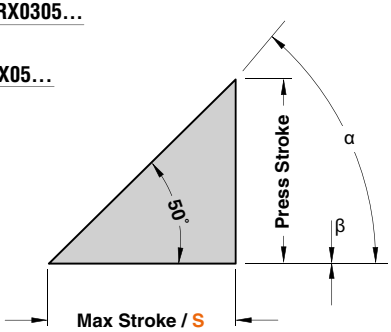
### WORK ANGLE (β) FROM -5° TO -15°



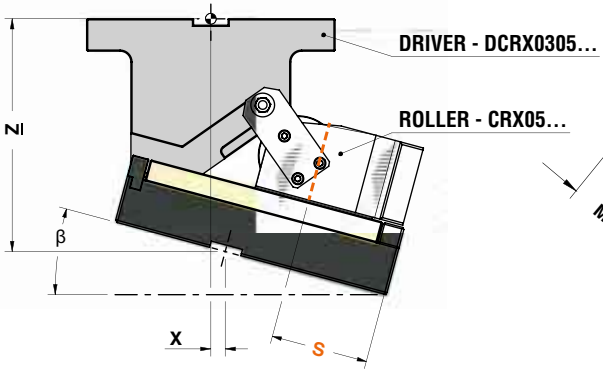



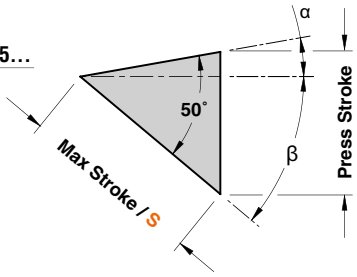

### WORK ANGLE (β)=0°




### WORK ANGLE (β) FROM 5° TO 50°



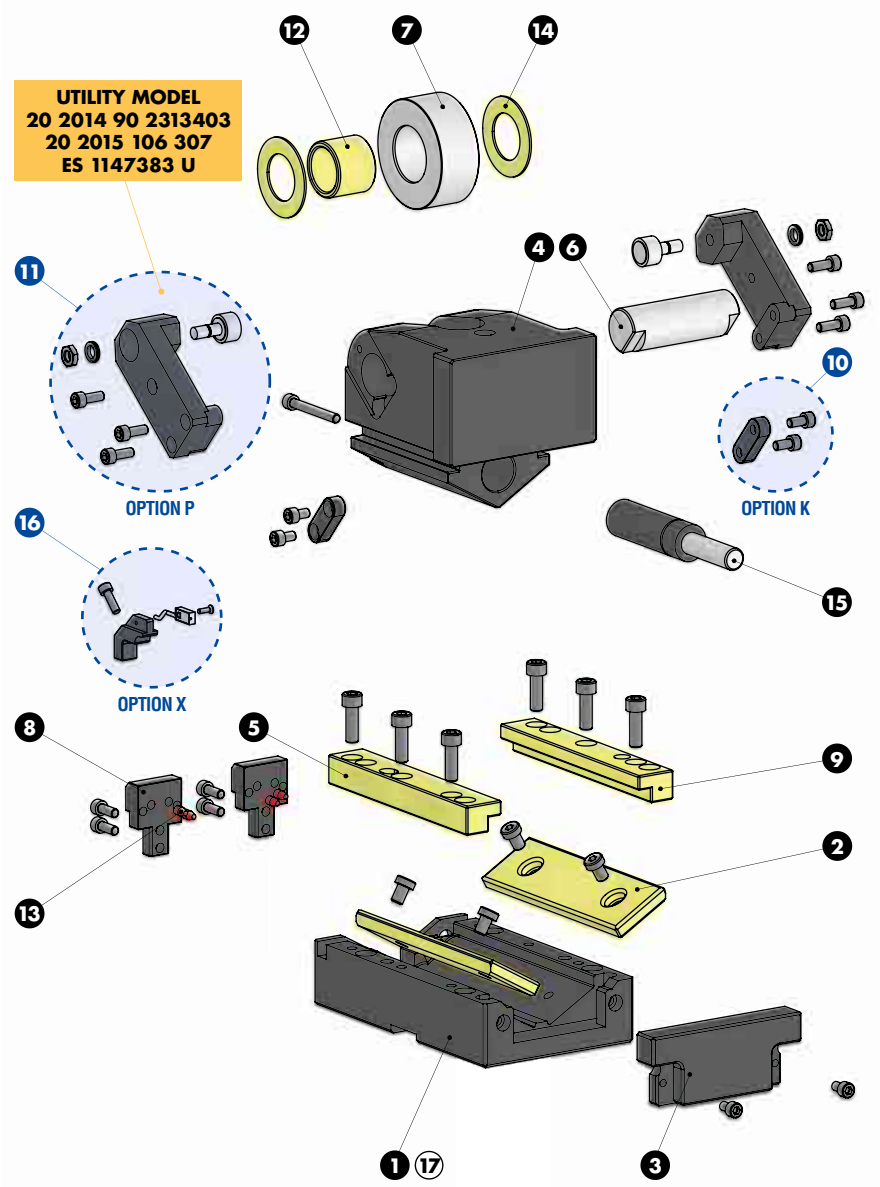



## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 906 / Weitere Informationen finden Sie auf der Seite 906 / Per maggiori informazioni consultare la pagina 906

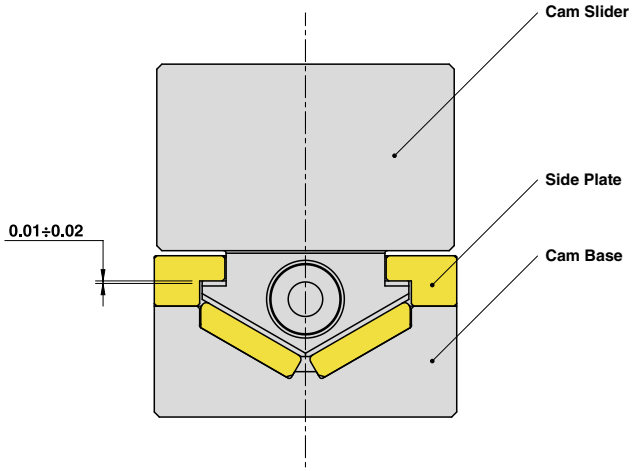
| ROLLER CAM CODE | Work Angle β | α | Max Stroke S (mm) | Press Stroke (mm) | *CAM DRIVER CODE | X (mm) | Z (mm) |
|---|---|---|---|---|---|---|---|
| CRX05.050 | -15° | 65° | 50 | 87,01 | DCRX0305.50.H15 | 99,96 | 189,49 |
| | -10° | 60° | 50 | 73,54 | DCRX0305.50.H10 | 91,56 | 192,74 |
| | -5° | 55° | 50 | 64,11 | DCRX0305.50.H05 | 82,30 | 201,52 |
| | 0° | 50° | 50 | 57,2 | DCRX0305.50.000 | 72,27 | 206,92 |
| | 5° | 45° | 50 | 52 | DCRX0305.50.L05 | 61,54 | 209,71 |
| | 10° | 40° | 50 | 48 | DCRX0305.50.L10 | 50,18 | 215,34 |
| | 15° | 35° | 50 | 44,89 | DCRX0305.50.L15 | 38,30 | 219,05 |
| | 20° | 30° | 50 | 42,46 | DCRX0305.50.L20 | 25,96 | 221,04 |
| | 25° | 25° | 50 | 40,57 | DCRX0305.50.L25 | 13,28 | 216,39 |
| | 30° | 20° | 50 | 39,13 | DCRX0305.50.L30 | 0,35 | 210,42 |
| | 35° | 15° | 50 | 38,07 | DCRX0305.50.L35 | -12,74 | 207,44 |
| | 40° | 10° | 50 | 37,34 | DCRX0305.50.L40 | -25,89 | 203,23 |
| | 45° | 5° | 50 | 36,91 | DCRX0305.50.L45 | -38,99 | 197,57 |
| | 50° | 0° | 50 | 36,77 | DCRX0305.50.L50 | -51,94 | 190,48 |
| CRX05.080 | -15° | 65° | 80 | 141,38 | DCRX0305.80.H15 | 74,96 | 229,80 |
| | -10° | 60° | 80 | 119,5 | DCRX0305.80.H10 | 66,56 | 231,78 |
| | -5° | 55° | 80 | 104,17 | DCRX0305.80.H05 | 57,30 | 226,46 |
| | 0° | 50° | 80 | 92,96 | DCRX0305.80.000 | 47,27 | 226,17 |
| | 5° | 45° | 80 | 84,5 | DCRX0305.80.L05 | 36,54 | 222,21 |
| | 10° | 40° | 80 | 78 | DCRX0305.80.L10 | 25,18 | 230,34 |
| | 15° | 35° | 80 | 72,94 | DCRX0305.80.L15 | 13,30 | 236,00 |
| | 20° | 30° | 80 | 69 | DCRX0305.80.L20 | 0,96 | 239,50 |
| | 25° | 25° | 80 | 65,93 | DCRX0305.80.L25 | -11,72 | 236,03 |
| | 30° | 20° | 80 | 63,59 | DCRX0305.80.L30 | -24,65 | 230,71 |
| | 35° | 15° | 80 | 61,86 | DCRX0305.80.L35 | -37,74 | 218,64 |
| | 40° | 10° | 80 | 60,67 | DCRX0305.80.L40 | -50,89 | 204,89 |
| | 45° | 5° | 80 | 59,98 | DCRX0305.80.L45 | -63,99 | 194,50 |
| | 50° | 0° | 80 | 59,75 | DCRX0305.80.L50 | -76,94 | 182,50 |
| CRX05.100 | -15° | 65° | 100 | 177,64 | DCRX0305.80.H15 | 74,96 | 193,54 |
| | -10° | 60° | 100 | 150,14 | DCRX0305.80.H10 | 66,56 | 201,14 |
| | -5° | 55° | 100 | 130,88 | DCRX0305.80.H05 | 57,30 | 199,75 |
| | 0° | 50° | 100 | 116,79 | DCRX0305.80.000 | 47,27 | 202,33 |
| | 5° | 45° | 100 | 106,17 | DCRX0305.80.L05 | 36,54 | 200,54 |
| | 10° | 40° | 100 | 98 | DCRX0305.80.L10 | 25,18 | 210,34 |
| | 15° | 35° | 100 | 91,65 | DCRX0305.80.L15 | 13,30 | 217,30 |
| | 20° | 30° | 100 | 86,69 | DCRX0305.80.L20 | 0,96 | 221,81 |
| | 25° | 25° | 100 | 82,83 | DCRX0305.80.L25 | -11,72 | 219,13 |
| | 30° | 20° | 100 | 79,89 | DCRX0305.80.L30 | -24,65 | 214,41 |
| | 35° | 15° | 100 | 77,72 | DCRX0305.80.L35 | -37,74 | 202,78 |
| | 40° | 10° | 100 | 76,23 | DCRX0305.80.L40 | -50,89 | 189,33 |
| | 45° | 5° | 100 | 75,36 | DCRX0305.80.L45 | -63,99 | 179,12 |
| | 50° | 0° | 100 | 75,07 | DCRX0305.80.L50 | -76,94 | 167,18 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



# ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

## SLIDER STRUCTURE AND CLEARANCES



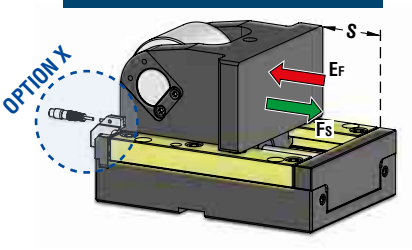



## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 3 | Spring Stopper Plate | CK45 | 1 |
| 4 | Cam Slider | CK45 | 1 |
| 5 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Pin | 16NiCrMo4 | 1 |
| 7 | Roller | 100Cr6 | 1 |
| 8 | Stopper Plate | CK45 | 2 |
| 9 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Key - OPTION K | CK45 | 2 |
| 11 | Positive Return + Roller KRV19PPA - OPTION P | CK45 | 2 |
| 12 | Self-Lubricating Bush | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 4 |
| 14 | Washer PCMW 325401.5M | - | 2 |
| 15 | Gas Spring | - | 1 |
| 16 | Back Position Check - OPTION X | - | 1 |
| 17 | Cam Base Fixing Screws M8x30 DIN 912 | - | 4 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

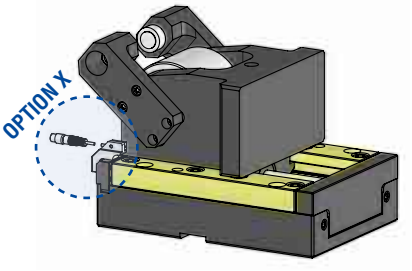
### Without Positive Return - **OPTION K**



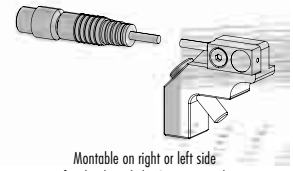

| OMCR CODE | Stroke (mm) | Max Work Force (kN) | Extraction Force (kN) |
|---|---|---|---|
| | | | Ef |
| | S | Fs | Gas Spring |
| CRX15.050 | 48 | 166 | 6,45 |
| CRX15.080 | 78 | 166 | 6,57 |
| CRX15.100 | 98 | 166 | 6,61 |

3D STEP WEB | WEB | P.682

### With Positive Return - **OPTION P**

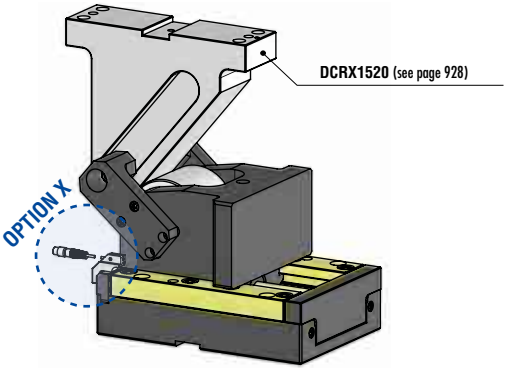



### Back Position Check - **OPTION X**



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

### With Driver - **OPTION DRIVER**



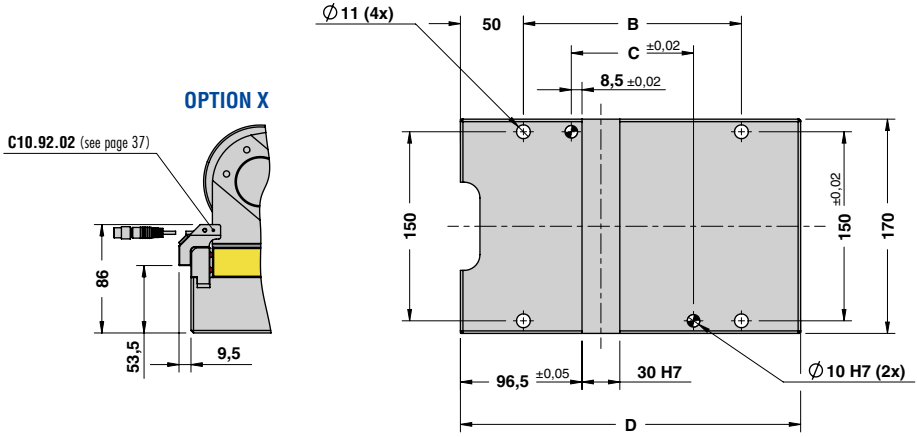

| OPTION DRIVER | Work angle (β) |
|---|---|
| H15 | -15° |
| H10 | -10° |
| H05 | -5° |
| 000 | 0 |
| L05 | 5° |
| L10 | 10° |
| L15 | 15° |
| L20 | 20° |
| L25 | 25° |
| L30 | 30° |
| L35 | 35° |
| L40 | 40° |
| L45 | 45° |
| L50 | 50° |

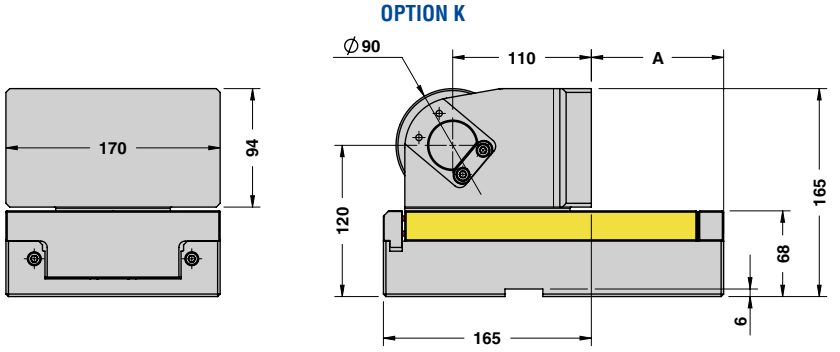
STOCK | ORDER EXAMPLE

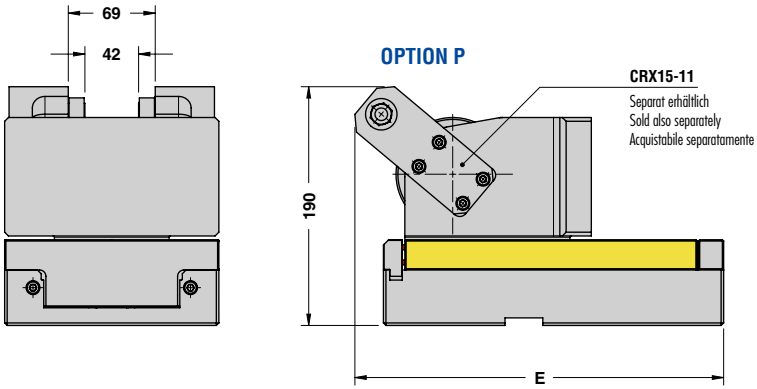
| Art. | Stroke = 80 | OPTION K-P | OPTION DRIVER | OPTION X |
|---|---|---|---|---|
| CRX15 | 080 | P | 000 | X |

| OMCR CODE | Stroke (mm) | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | S | A | B | C | D | E |
| CRX15.050 | 48 | 55 | 123 | 47 | 220 | 243 |
| CRX15.080 | 78 | 85 | 153 | 77 | 250 | 273 |
| CRX15.100 | 98 | 105 | 173 | 97 | 270 | 293 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

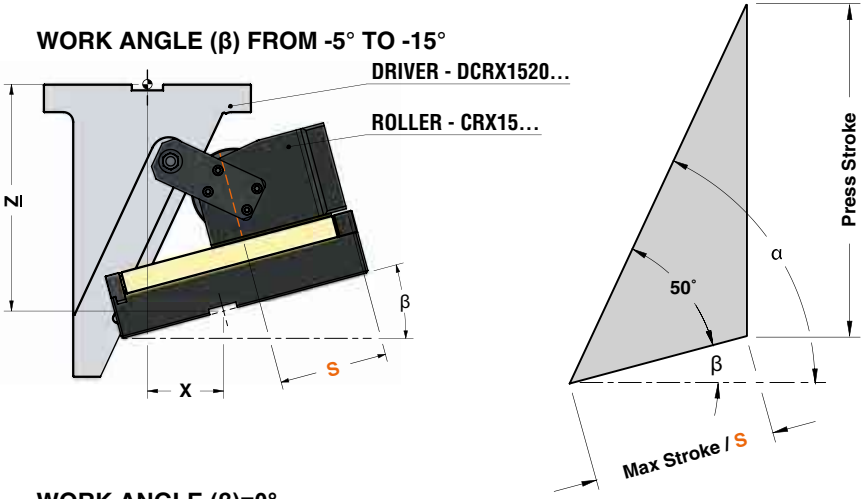


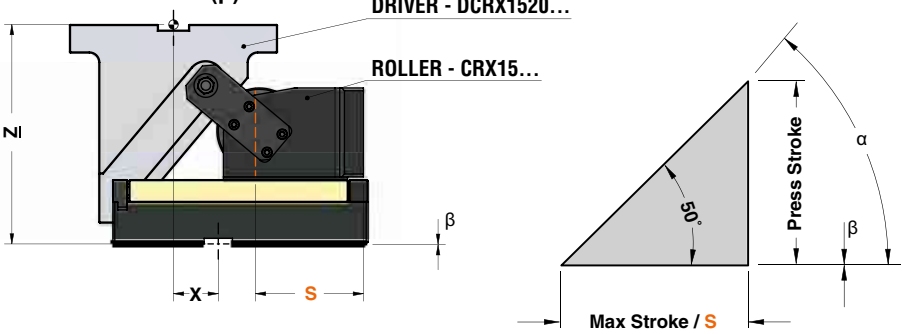



## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

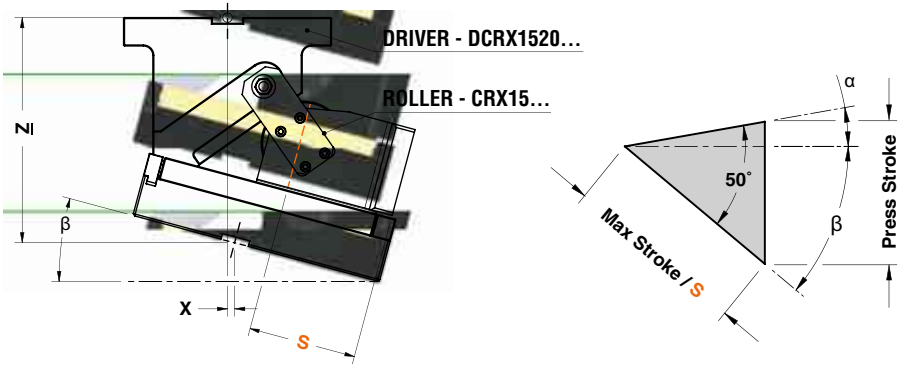
### WORK ANGLE (β) FROM -5° TO -15°




### WORK ANGLE (β)=0°




### WORK ANGLE (β) FROM 5° TO 50°

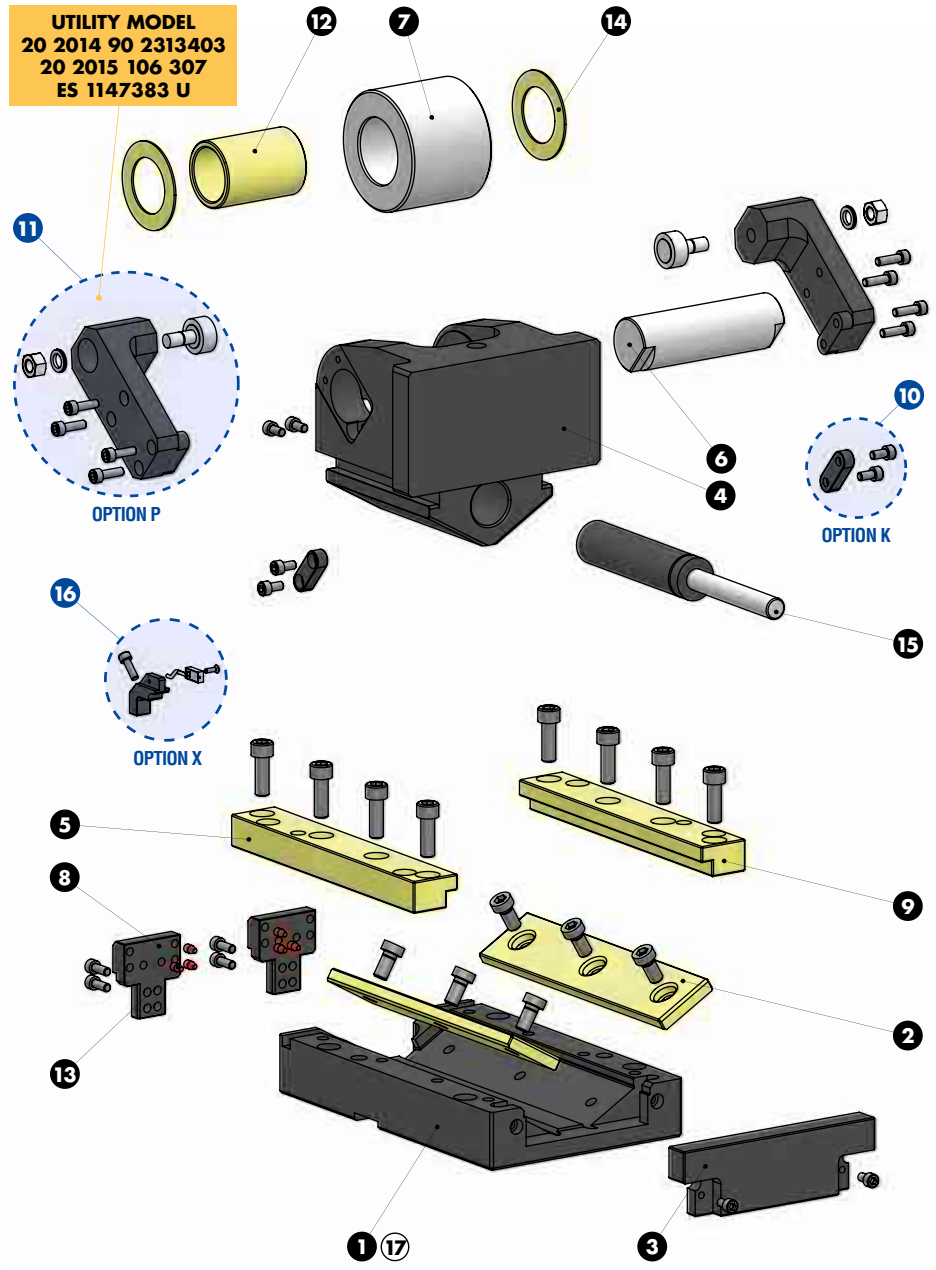


## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 928 / Weitere Informationen finden Sie auf der Seite 928 / Per maggiori informazioni consultare la pagina 928

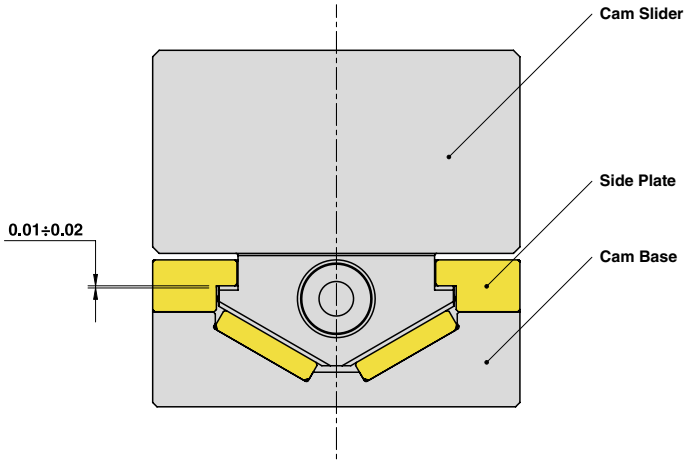
| ROLLER CAM CODE | Work Angle β | α | Max Stroke S (mm) | Press Stroke (mm) | *CAM DRIVER CODE | X (mm) | Z (mm) |
|---|---|---|---|---|---|---|---|
| CRX15.050 | -15° | 65° | 50 | 87,01 | DCRX1520.50.H15 | 105,64 | 224,24 |
| | -10° | 60° | 50 | 73,54 | DCRX1520.50.H10 | 95,45 | 223,67 |
| | -5° | 55° | 50 | 64,11 | DCRX1520.50.H05 | 84,34 | 223,13 |
| | 0° | 50° | 50 | 57,2 | DCRX1520.50.000 | 72,39 | 229,07 |
| | 5° | 45° | 50 | 52 | DCRX1520.50.L05 | 59,71 | 232,76 |
| | 10° | 40° | 50 | 48 | DCRX1520.50.L10 | 46,38 | 238,04 |
| | 15° | 35° | 50 | 44,89 | DCRX1520.50.L15 | 32,51 | 241,78 |
| | 20° | 30° | 50 | 42,46 | DCRX1520.50.L20 | 18,21 | 243,60 |
| | 25° | 25° | 50 | 40,57 | DCRX1520.50.L25 | 3,57 | 238,62 |
| | 30° | 20° | 50 | 39,13 | DCRX1520.50.L30 | -11,28 | 231,91 |
| | 35° | 15° | 50 | 38,07 | DCRX1520.50.L35 | -26,24 | 228,52 |
| | 40° | 10° | 50 | 37,34 | DCRX1520.50.L40 | -41,19 | 223,49 |
| | 45° | 5° | 50 | 36,91 | DCRX1520.50.L45 | -56,01 | 216,85 |
| | 50° | 0° | 50 | 36,77 | DCRX1520.50.L50 | -95,60 | 208,65 |
| CRX15.080 | -15° | 65° | 80 | 141,38 | DCRX1520.80.H15 | 80,64 | 279,87 |
| | -10° | 60° | 80 | 119,5 | DCRX1520.80.H10 | 70,45 | 262,70 |
| | -5° | 55° | 80 | 104,17 | DCRX1520.80.H05 | 59,34 | 258,07 |
| | 0° | 50° | 80 | 92,96 | DCRX1520.80.000 | 47,39 | 258,32 |
| | 5° | 45° | 80 | 84,5 | DCRX1520.80.L05 | 34,71 | 249,72 |
| | 10° | 40° | 80 | 78 | DCRX1520.80.L10 | 21,38 | 258,04 |
| | 15° | 35° | 80 | 72,94 | DCRX1520.80.L15 | 7,51 | 258,72 |
| | 20° | 30° | 80 | 69 | DCRX1520.80.L20 | -6,78 | 262,06 |
| | 25° | 25° | 80 | 65,93 | DCRX1520.80.L25 | -21,42 | 253,26 |
| | 30° | 20° | 80 | 63,59 | DCRX1520.80.L30 | -36,28 | 252,45 |
| | 35° | 15° | 80 | 61,86 | DCRX1520.80.L35 | -51,24 | 234,72 |
| | 40° | 10° | 80 | 60,67 | DCRX1520.80.L40 | -66,19 | 225,15 |
| | 45° | 5° | 80 | 59,98 | DCRX1520.80.L45 | -81,01 | 213,78 |
| | 50° | 0° | 80 | 59,75 | DCRX1520.80.L50 | -95,60 | 200,66 |
| CRX15.100 | -15° | 65° | 100 | 177,64 | DCRX1520.80.H15 | 80,64 | 243,61 |
| | -10° | 60° | 100 | 150,14 | DCRX1520.80.H10 | 70,45 | 232,06 |
| | -5° | 55° | 100 | 130,88 | DCRX1520.80.H05 | 59,34 | 231,36 |
| | 0° | 50° | 100 | 116,79 | DCRX1520.80.000 | 47,39 | 234,48 |
| | 5° | 45° | 100 | 106,17 | DCRX1520.80.L05 | 34,71 | 228,06 |
| | 10° | 40° | 100 | 98 | DCRX1520.80.L10 | 21,38 | 238,04 |
| | 15° | 35° | 100 | 91,65 | DCRX1520.80.L15 | 7,51 | 240,02 |
| | 20° | 30° | 100 | 86,69 | DCRX1520.80.L20 | -6,78 | 244,37 |
| | 25° | 25° | 100 | 82,83 | DCRX1520.80.L25 | -21,42 | 236,36 |
| | 30° | 20° | 100 | 79,89 | DCRX1520.80.L30 | -36,28 | 236,15 |
| | 35° | 15° | 100 | 77,72 | DCRX1520.50.L35 | -51,24 | 218,86 |
| | 40° | 10° | 100 | 76,23 | DCRX1520.80.L40 | -66,19 | 209,59 |
| | 45° | 5° | 100 | 75,36 | DCRX1520.80.L45 | -81,01 | 198,40 |
| | 50° | 0° | 100 | 75,07 | DCRX1520.80.L50 | -95,60 | 185,34 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

### SLIDER STRUCTURE AND CLEARANCES



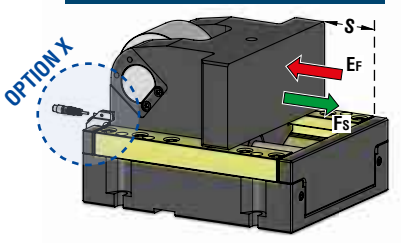



### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 3 | Gas Spring Stopper Plate | CK45 | 1 |
| 4 | Cam Slider | CK45 | 1 |
| 5 | Side Plate L | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 6 | Pin | 16NiCrMo4 | 1 |
| 7 | Roller | 100Cr6 | 1 |
| 8 | Stopper Plate | CK45 | 2 |
| 9 | Side Plate R | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Key - OPTION K | CK45 | 2 |
| 11 | Positive Return + Roller KRV26PPA - OPTION P | CK45 | 2 |
| 12 | Self-Lubricating Bush | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 6 |
| 14 | Washer PCMW 426601.5M | - | 2 |
| 15 | Gas Spring | - | 1 |
| 16 | Back Position Check - OPTION X | - | 1 |
| 17 | Cam Base Fixing Screws M10x35 DIN 912 | - | 4 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

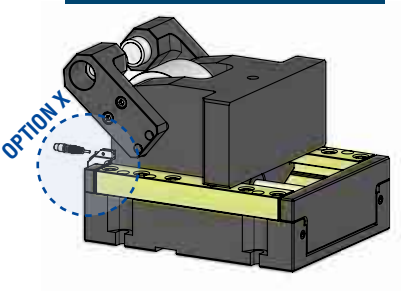
### Without Positive Return - **OPTION K**



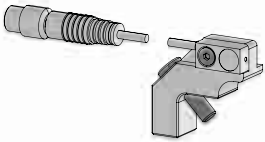

| OMCR CODE | Stroke (mm) | Max Work Force (kN) | Extraction Force (kN) |
|---|---|---|---|
| | | | Ef |
| | S | Fs | Gas Spring |
| CRX20.050 | 48 | 258 | 9,29 |
| CRX20.080 | 78 | 258 | 9,36 |
| CRX20.100 | 98 | 258 | 9,38 |

3D STEP WEB | WEB | P.682

### With Positive Return - **OPTION P**

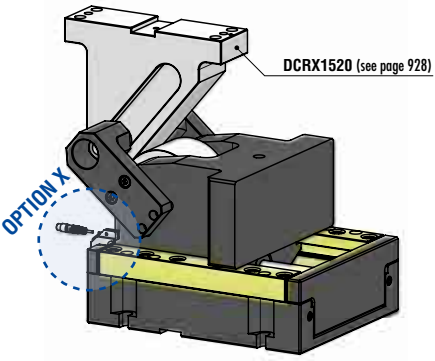



### Back Position Check - **OPTION X**



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

### With Driver - **OPTION DRIVER**



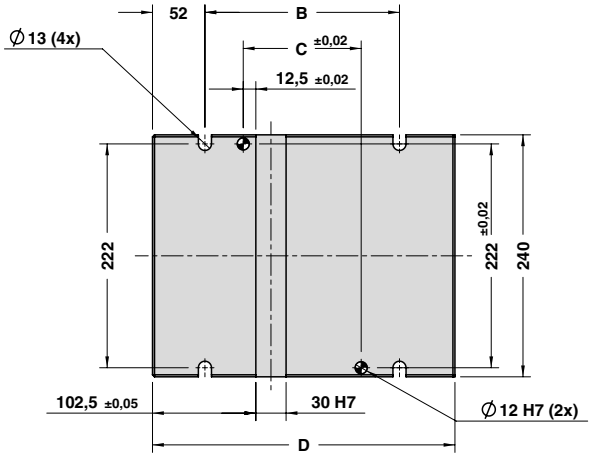

| OPTION DRIVER | Work angle (β) |
|---|---|
| H15 | -15° |
| H10 | -10° |
| H05 | -5° |
| 000 | 0 |
| L05 | 5° |
| L10 | 10° |
| L15 | 15° |
| L20 | 20° |
| L25 | 25° |
| L30 | 30° |
| L35 | 35° |
| L40 | 40° |
| L45 | 45° |
| L50 | 50° |

STOCK | ORDER EXAMPLE

| Art. | Stroke = 80 | OPTION K-P | OPTION DRIVER | OPTION X |
|---|---|---|---|---|
| CRX20 | 080 | P | 000 | X |

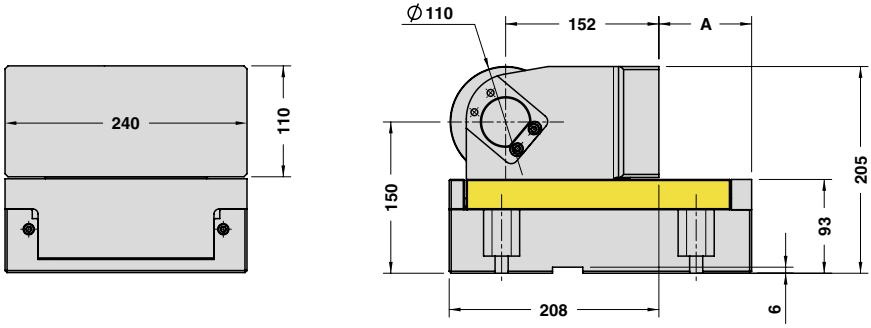
| OMCR CODE | Stroke (mm) | Overall Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|
| | S | A | B | C | D | E |
| CRX20.050 | 48 | 42 | 143 | 67 | 250 | 290 |
| CRX20.080 | 78 | 72 | 173 | 97 | 280 | 320 |
| CRX20.100 | 98 | 92 | 193 | 117 | 300 | 340 |

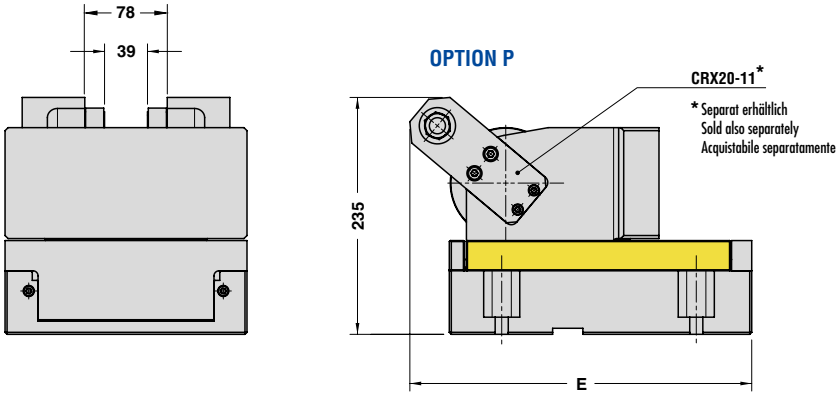
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





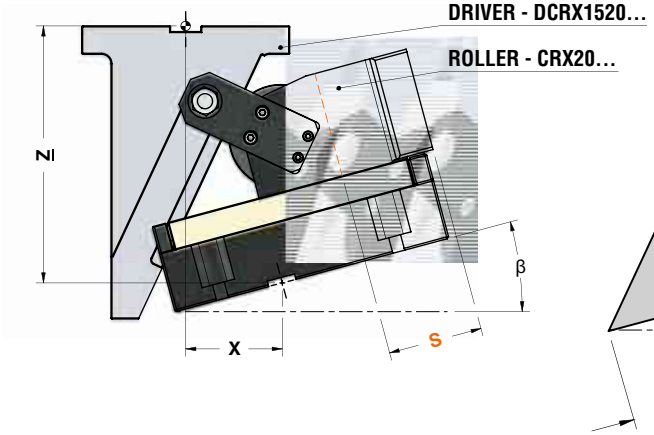

### OPTION K

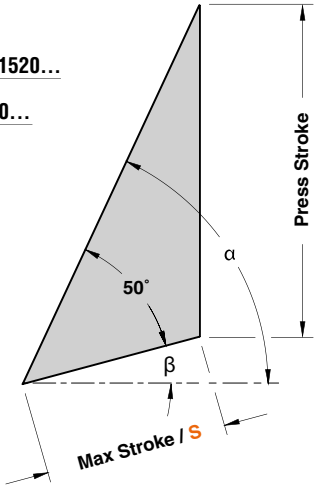


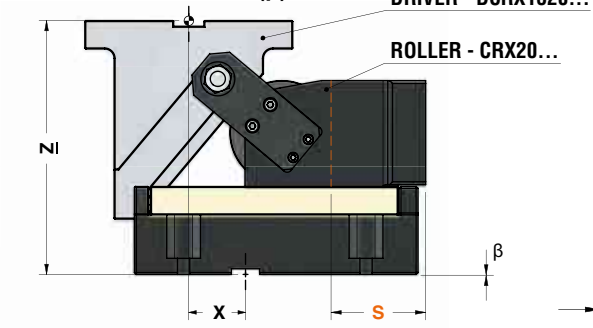
## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

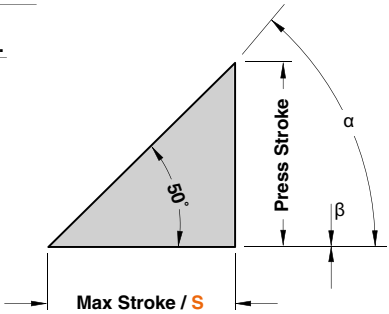
### WORK ANGLE (β) FROM -5° TO -15°



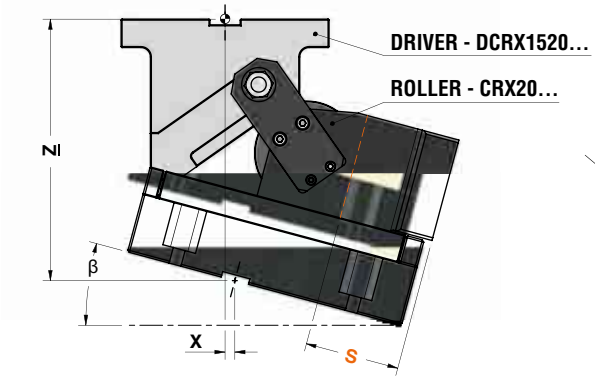



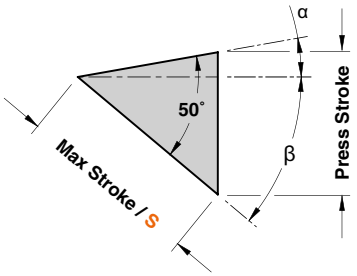

### WORK ANGLE (β)=0°




### WORK ANGLE (β) FROM 5° TO 50°

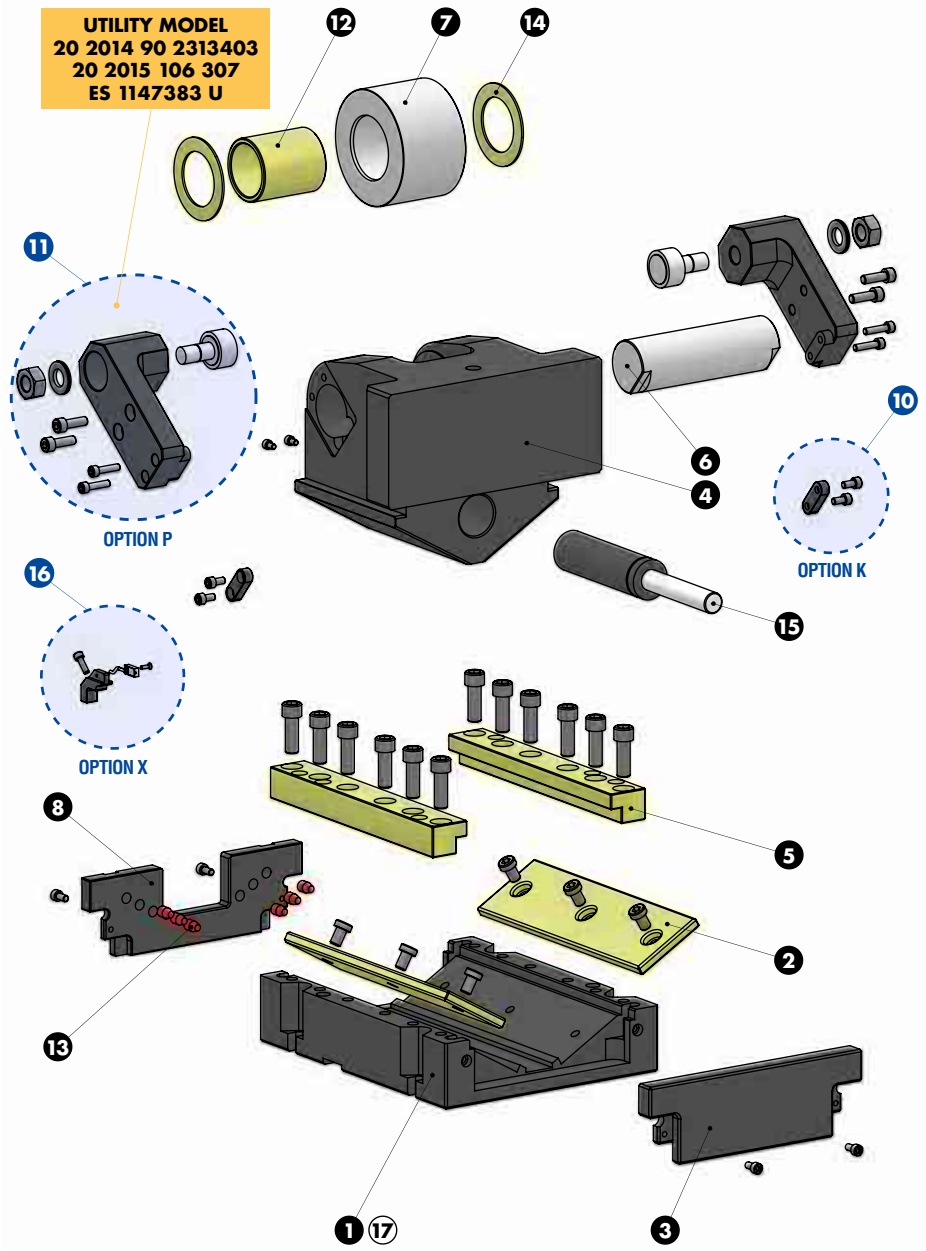


## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

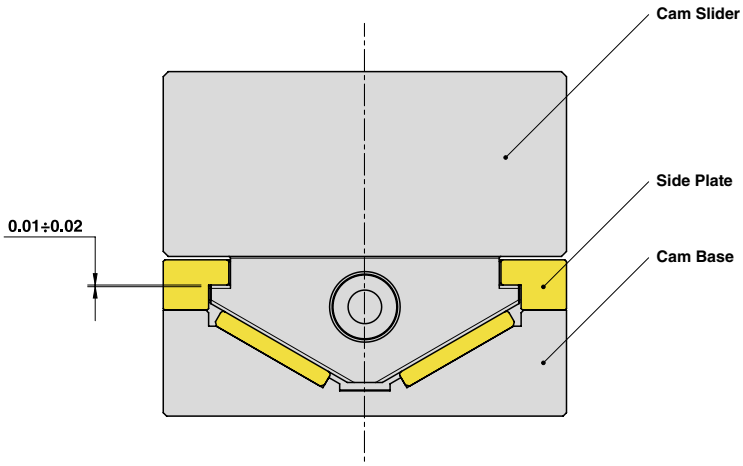
| ROLLER CAM CODE | Work Angle β | α | Max Stroke S (mm) | Press Stroke (mm) | *CAM DRIVER CODE | X (mm) | Z (mm) |
|---|---|---|---|---|---|---|---|
| CRX20.050 | -15° | 65° | 50 | 87,01 | DCRX1520.50.H15 | 127,30 | 256,15 |
| | -10° | 60° | 50 | 73,54 | DCRX1520.50.H10 | 114,24 | 257,35 |
| | -5° | 55° | 50 | 64,11 | DCRX1520.50.H05 | 100,12 | 258,33 |
| | 0° | 50° | 50 | 57,2 | DCRX1520.50.000 | 85,06 | 265,49 |
| | 5° | 45° | 50 | 52 | DCRX1520.50.L05 | 69,15 | 269,61 |
| | 10° | 40° | 50 | 48 | DCRX1520.50.L10 | 52,53 | 276,11 |
| | 15° | 35° | 50 | 44,89 | DCRX1520.50.L15 | 35,31 | 280,24 |
| | 20° | 30° | 50 | 42,46 | DCRX1520.50.L20 | 17,64 | 282,17 |
| | 25° | 25° | 50 | 40,57 | DCRX1520.50.L25 | -0,34 | 276,67 |
| | 30° | 20° | 50 | 39,13 | DCRX1520.50.L30 | -18,53 | 269,79 |
| | 35° | 15° | 50 | 38,07 | DCRX1520.50.L35 | -36,76 | 265,62 |
| | 40° | 10° | 50 | 37,34 | DCRX1520.50.L40 | -54,90 | 259,53 |
| | 45° | 5° | 50 | 36,91 | DCRX1520.50.L45 | -72,82 | 251,56 |
| | 50° | 0° | 50 | 36,77 | DCRX1520.50.L50 | -90,37 | 241,76 |
| CRX20.080 | -15° | 65° | 80 | 141,38 | DCRX1520.80.H15 | 102,30 | 311,77 |
| | -10° | 60° | 80 | 119,5 | DCRX1520.80.H10 | 89,24 | 296,39 |
| | -5° | 55° | 80 | 104,17 | DCRX1520.80.H05 | 75,13 | 293,25 |
| | 0° | 50° | 80 | 92,96 | DCRX1520.80.000 | 60,06 | 294,74 |
| | 5° | 45° | 80 | 84,5 | DCRX1520.80.L05 | 44,15 | 287,11 |
| | 10° | 40° | 80 | 78 | DCRX1520.80.L10 | 27,53 | 296,11 |
| | 15° | 35° | 80 | 72,94 | DCRX1520.80.L15 | 10,32 | 297,18 |
| | 20° | 30° | 80 | 69 | DCRX1520.80.L20 | -7,35 | 300,62 |
| | 25° | 25° | 80 | 65,93 | DCRX1520.80.L25 | -25,35 | 291,63 |
| | 30° | 20° | 80 | 63,59 | DCRX1520.80.L30 | -43,53 | 290,33 |
| | 35° | 15° | 80 | 61,86 | DCRX1520.80.L35 | -61,76 | 271,83 |
| | 40° | 10° | 80 | 60,67 | DCRX1520.80.L40 | -79,91 | 261,19 |
| | 45° | 5° | 80 | 59,98 | DCRX1520.80.L45 | -97,82 | 248,49 |
| | 50° | 0° | 80 | 59,75 | DCRX1520.80.L50 | -115,38 | 233,78 |
| CRX20.100 | -15° | 65° | 100 | 177,64 | DCRX1520.80.H15 | 102,30 | 275,52 |
| | -10° | 60° | 100 | 150,14 | DCRX1520.80.H10 | 89,24 | 265,74 |
| | -5° | 55° | 100 | 130,88 | DCRX1520.80.H05 | 75,12 | 266,55 |
| | 0° | 50° | 100 | 116,79 | DCRX1520.80.000 | 60,06 | 270,90 |
| | 5° | 45° | 100 | 106,17 | DCRX1520.80.L05 | 44,15 | 265,45 |
| | 10° | 40° | 100 | 98 | DCRX1520.80.L10 | 27,53 | 276,11 |
| | 15° | 35° | 100 | 91,65 | DCRX1520.80.L15 | 10,31 | 278,48 |
| | 20° | 30° | 100 | 86,69 | DCRX1520.80.L20 | -7,35 | 282,93 |
| | 25° | 25° | 100 | 82,83 | DCRX1520.80.L25 | -25,34 | 274,72 |
| | 30° | 20° | 100 | 79,89 | DCRX1520.80.L30 | -43,53 | 273,84 |
| | 35° | 15° | 100 | 77,72 | DCRX1520.80.L35 | -61,76 | 255,96 |
| | 40° | 10° | 100 | 76,23 | DCRX1520.80.L40 | -79,90 | 245,69 |
| | 45° | 5° | 100 | 75,36 | DCRX1520.80.L45 | -97,82 | 233,11 |
| | 50° | 0° | 100 | 75,07 | DCRX1520.80.L50 | -115,37 | 218,46 |

## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



## ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

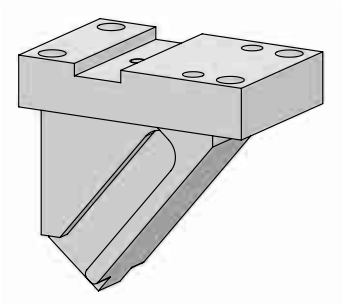
### SLIDER STRUCTURE AND CLEARANCES

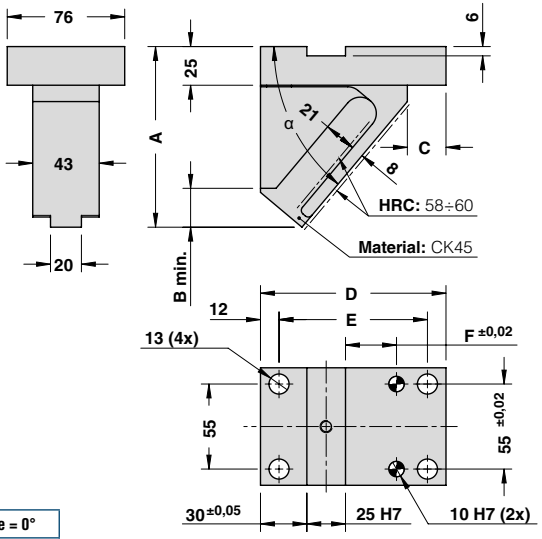



### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Base | CK45 | 1 |
| 2 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 3 | Gas Spring Stopper Plate | CK45 | 1 |
| 4 | Cam Slider | CK45 | 1 |
| 5 | Side Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 6 | Pin | 16NiCrMo4 | 1 |
| 7 | Roller | 100Cr6 | 1 |
| 8 | Stopper Plate | CK45 | 1 |
| 10 | Key - OPTION K | CK45 | 2 |
| 11 | Positive Return + Roller KRV35PPA - OPTION P | CK45 | 2 |
| 12 | Self-Lubricating Bush | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 13 | Elastomer Cap | Elastomer 92SH | 6 |
| 14 | Washer PCMW 52780.2M | - | 2 |
| 15 | Gas Spring | - | 1 |
| 16 | Back Position Check - OPTION X | - | 1 |
| 17 | Cam Base Fixing Screws M12x35 DIN 912 | - | 4 |

## ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO






3D STEP WEB | 3D CATIA WEB | WEB

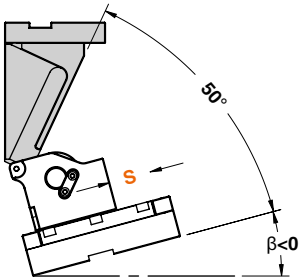
For driver positioning see pages 896-897
Positionierung des Treibers siehe Seiten 896-897
Per posizionamento cuneo vedi pagine 896-897

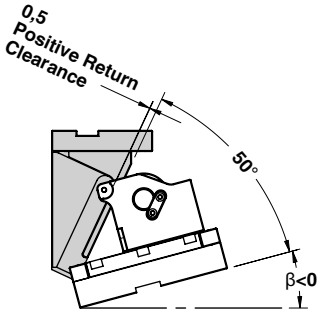
STOCK | ORDER EXAMPLE

| Art. | Work angle = 0° |
|---|---|
| DCRX0100.30 | 000 |

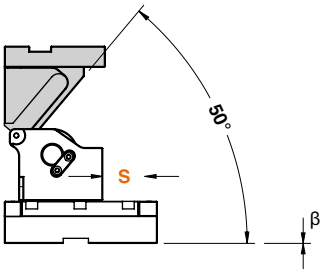
| OMCR CODE | ROLLER CAM MODEL | Stroke (mm) | Work Angle | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | S | β | α | A | B min. | C | D | E | F |
| DCRX0100.30.H15 | CRX01.030 | 30 | -15° | 65° | 131 | 18 | 30 | 100 | 76 | 13 |
| DCRX0100.30.H10 | | 30 | -10° | 60° | 113,5 | 20,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.H05 | | 30 | -5° | 55° | 97 | 22,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.000 | | 30 | 0° | 50° | 92,5 | 24,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L05 | | 30 | 5° | 45° | 82 | 26,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L10 | | 30 | 10° | 40° | 78,5 | 28 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L15 | | 30 | 15° | 35° | 75,5 | 29,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L20 | | 30 | 20° | 30° | 74 | 31 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L25 | | 30 | 25° | 25° | 70,5 | 34,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L30 | | 30 | 30° | 20° | 70 | 33 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L35 | | 30 | 35° | 15° | 69 | 32 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L40 | | 30 | 40° | 10° | 65 | 32 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L45 | | 30 | 45° | 5° | 62 | 30,5 | 30 | 100 | 76 | 13 |
| DCRX0100.30.L50 | | 30 | 50° | 0° | 59,5 | 29 | 30 | 100 | 76 | 13 |
| DCRX0100.50.H15 | CRX01.050 | 48 | -15° | 65° | 179 | 16 | 25 | 120 | 96 | 33 |
| DCRX0100.50.H10 | | 48 | -10° | 60° | 153,5 | 20,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.H05 | | 48 | -5° | 55° | 142 | 22,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.000 | | 48 | 0° | 50° | 116 | 24,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L05 | | 48 | 5° | 45° | 111 | 26,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L10 | | 48 | 10° | 40° | 101,5 | 31 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L15 | | 48 | 15° | 35° | 99 | 33 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L20 | | 48 | 20° | 30° | 93 | 33 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L25 | | 48 | 25° | 25° | 87,5 | 30,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L30 | | 48 | 30° | 20° | 83 | 29,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L35 | | 48 | 35° | 15° | 84 | 30,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L40 | | 48 | 40° | 10° | 75 | 31 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L45 | | 48 | 45° | 5° | 72 | 31,5 | 25 | 120 | 96 | 33 |
| DCRX0100.50.L50 | | 48 | 50° | 0° | 69,5 | 29 | 25 | 120 | 96 | 33 |

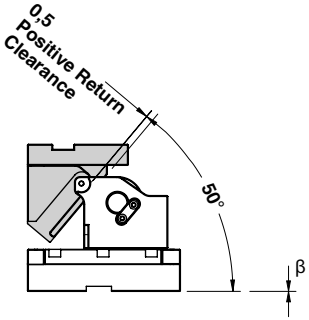
## FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM -5° TO -15°



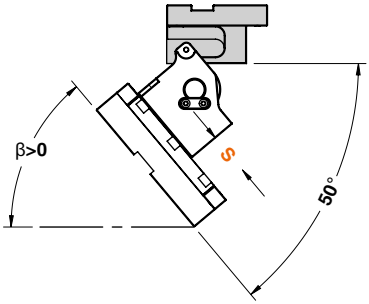



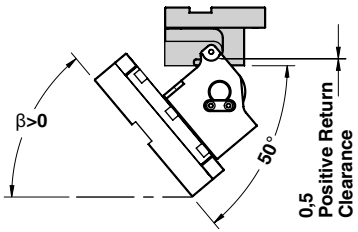

## FUNCTIONING EXAMPLE FOR WORK ANGLE (β)=0°



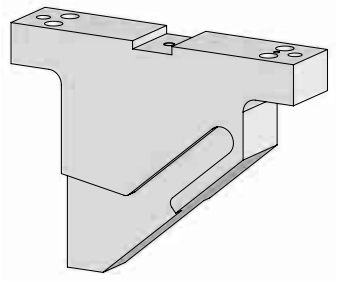



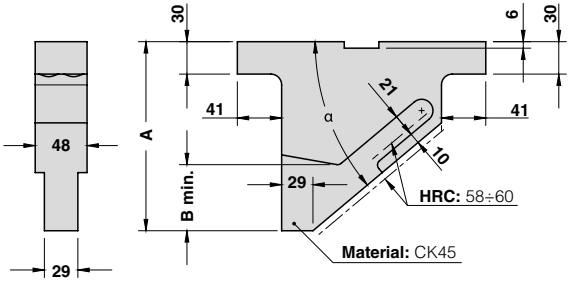

## FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM 5° TO 50°



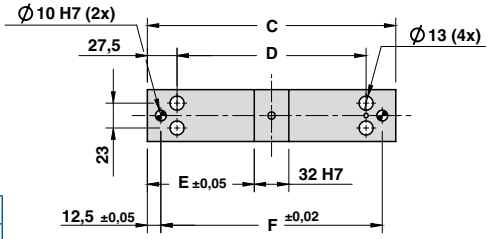



## ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A ROLLO






3D STEP WEB | 3D CATIA WEB | WEB



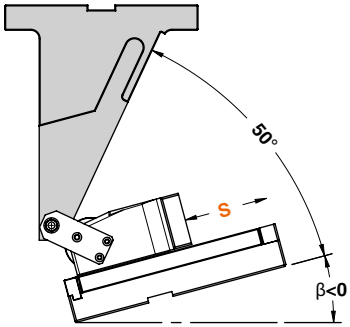

For driver positioning see pages 902-903 and 908-909
Positionierung des Treibers siehe Seiten 902-903 und 908-909
Per posizionamento cuneo vedi pagine 902-903 e 908-909

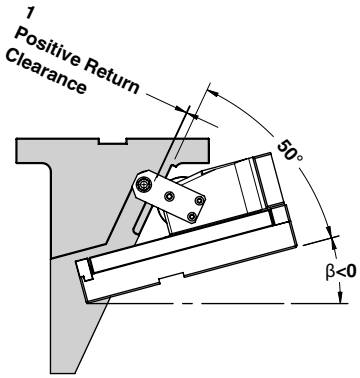
STOCK | ORDER EXAMPLE

| Art. | Work angle = 0° |
|---|---|
| DCRX0305.50 | 000 |

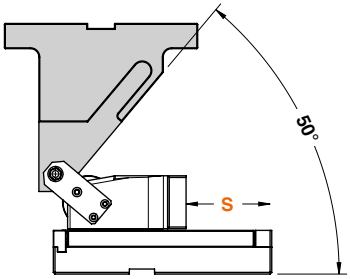
| OMCR CODE | ROLLER CAM MODEL | Stroke (mm) | Work Angle | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | S | β | α | A | B min. | C | D | E | F |
| DCRX0305.50.H15 | CRX03.050 CRX05.050 | 48 | -15° | 65° | 185 | 70 | 180 | 125 | 74 | 155 |
| DCRX0305.50.H10 | | 48 | -10° | 60° | 165 | 70 | 180 | 125 | 74 | 155 |
| DCRX0305.50.H05 | | 48 | -5° | 55° | 155 | 60 | 180 | 125 | 74 | 155 |
| DCRX0305.50.000 | | 48 | 0° | 50° | 145 | 50 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L05 | | 48 | 5° | 45° | 135 | 40 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L10 | | 48 | 10° | 40° | 130 | 35 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L15 | | 48 | 15° | 35° | 125 | 30 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L20 | | 48 | 20° | 30° | 120 | 25 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L25 | | 48 | 25° | 25° | 110 | 40 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L30 | | 48 | 30° | 20° | 100 | 30 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L35 | | 48 | 35° | 15° | 95 | 25 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L40 | | 48 | 40° | 10° | 90 | 20 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L45 | | 48 | 45° | 5° | 85 | 25 | 180 | 125 | 74 | 155 |
| DCRX0305.50.L50 | | 48 | 50° | 0° | 80 | 30 | 180 | 125 | 74 | 155 |
| DCRX0305.80.H15 | CRX03.080 CRX03.100 CRX05.080 CRX05.100 | 78-98 | -15° | 65° | 280 | 160 | 230 | 175 | 99 | 205 |
| DCRX0305.80.H10 | | 78-98 | -10° | 60° | 250 | 130 | 230 | 175 | 99 | 205 |
| DCRX0305.80.H05 | | 78-98 | -5° | 55° | 220 | 100 | 230 | 175 | 99 | 205 |
| DCRX0305.80.000 | | 78-98 | 0° | 50° | 200 | 80 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L05 | | 78-98 | 5° | 45° | 180 | 60 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L10 | | 78-98 | 10° | 40° | 175 | 55 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L15 | | 78-98 | 15° | 35° | 170 | 50 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L20 | | 78-98 | 20° | 30° | 165 | 45 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L25 | | 78-98 | 25° | 25° | 155 | 65 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L30 | | 78-98 | 30° | 20° | 145 | 55 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L35 | | 78-98 | 35° | 15° | 130 | 50 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L40 | | 78-98 | 40° | 10° | 115 | 55 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L45 | | 78-98 | 45° | 5° | 105 | 45 | 230 | 175 | 99 | 205 |
| DCRX0305.80.L50 | | 78-98 | 50° | 0° | 95 | 55 | 230 | 175 | 99 | 205 |

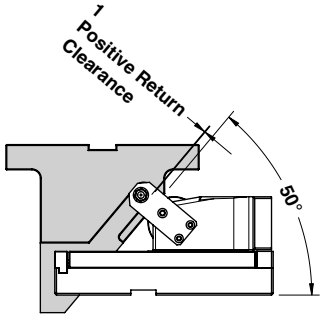
## FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM -5° TO -15°



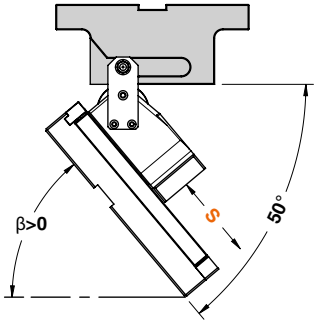



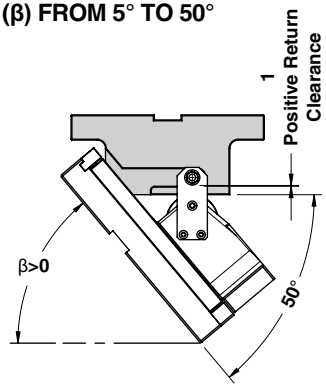

## FUNCTIONING EXAMPLE FOR WORK ANGLE (β)=0°



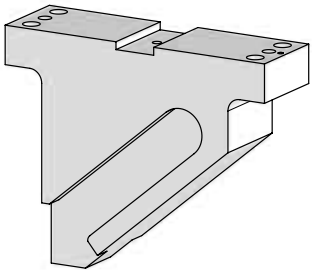



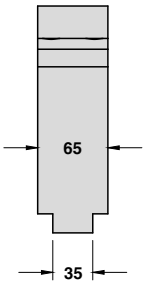

## FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM 5° TO 50°

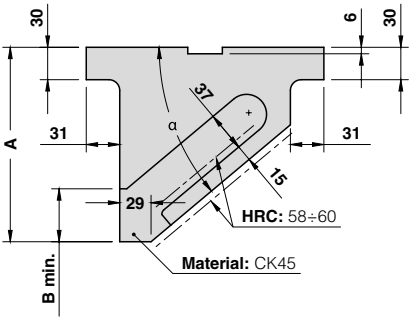


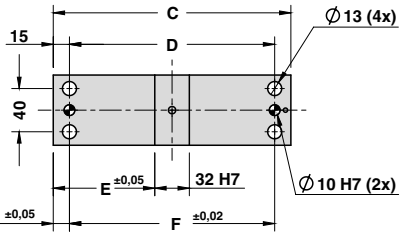
## ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO






3D STEP WEB | 3D CATIA WEB | WEB



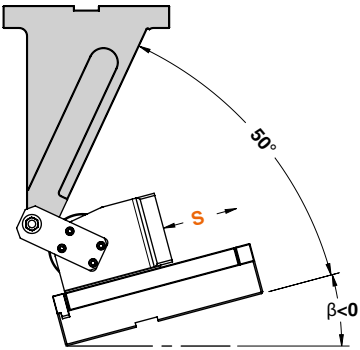

For driver positioning see pages 914-915 and 920-921
Positionierung des Treibers siehe Seiten 914-915 und 920-921
Per posizionamento cuneo vedi pagine 914-915 e 920-921

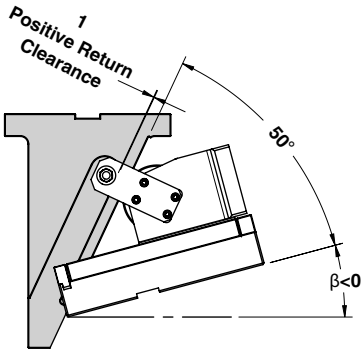
STOCK | ORDER EXAMPLE

| Art. | Work angle = 0° |
|---|---|
| DCRX1520.50 | 000 |

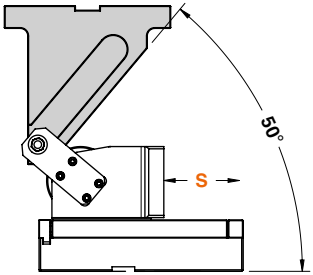
| OMCR CODE | ROLLER CAM MODEL | Stroke (mm) | Work Angle | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | S | β | α | A | B min. | C | D | E | F |
| DCRX1520.50.H15 | CRX15.050 CRX20.050 | 48 | -15° | 65° | 200 | 66 | 170 | 140 | 69 | 140 |
| DCRX1520.50.H10 | | 48 | -10° | 60° | 175 | 59 | 170 | 140 | 69 | 140 |
| DCRX1520.50.H05 | | 48 | -5° | 55° | 155 | 55 | 170 | 140 | 69 | 140 |
| DCRX1520.50.000 | | 48 | 0° | 50° | 145 | 52 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L05 | | 48 | 5° | 45° | 135 | 50 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L10 | | 48 | 10° | 40° | 130 | 49 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L15 | | 48 | 15° | 35° | 125 | 49 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L20 | | 48 | 20° | 30° | 120 | 49 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L25 | | 48 | 25° | 25° | 110 | 49 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L30 | | 48 | 30° | 20° | 100 | 50 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L35 | | 48 | 35° | 15° | 95 | 52 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L40 | | 48 | 40° | 10° | 90 | 53 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L45 | | 48 | 45° | 5° | 85 | 50 | 170 | 140 | 69 | 140 |
| DCRX1520.50.L50 | | 48 | 50° | 0° | 80 | 0 | 170 | 140 | 69 | 140 |
| DCRX1520.80.H15 | CRX15.080 CRX15.100 CRX20.080 CRX20.100 | 78-98 | -15° | 65° | 310 | 66 | 220 | 190 | 94 | 190 |
| DCRX1520.80.H10 | | 78-98 | -10° | 60° | 260 | 59 | 220 | 190 | 94 | 190 |
| DCRX1520.80.H05 | | 78-98 | -5° | 55° | 230 | 55 | 220 | 190 | 94 | 190 |
| DCRX1520.80.000 | | 78-98 | 0° | 50° | 210 | 52 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L05 | | 78-98 | 5° | 45° | 185 | 50 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L10 | | 78-98 | 10° | 40° | 180 | 49 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L15 | | 78-98 | 15° | 35° | 170 | 49 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L20 | | 78-98 | 20° | 30° | 165 | 49 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L25 | | 78-98 | 25° | 25° | 150 | 49 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L30 | | 78-98 | 30° | 20° | 145 | 50 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L35 | | 78-98 | 35° | 15° | 125 | 52 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L40 | | 78-98 | 40° | 10° | 115 | 53 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L45 | | 78-98 | 45° | 5° | 105 | 50 | 220 | 190 | 94 | 190 |
| DCRX1520.80.L50 | | 78-98 | 50° | 0° | 95 | 52 | 220 | 190 | 94 | 190 |

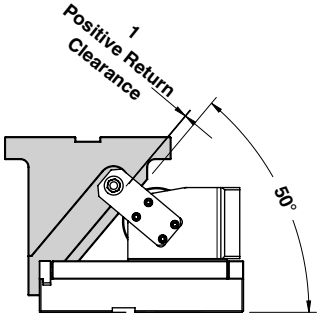
## FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM -5° TO -15°



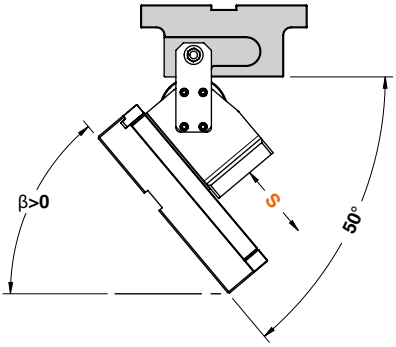



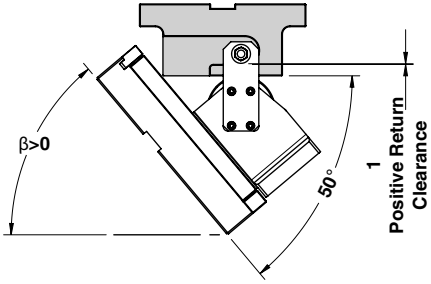

## FUNCTIONING EXAMPLE FOR WORK ANGLE (β)=0°




## FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM 5° TO 50°





# Cam Units DHC
# Schieber DHC
# Unità a Camme DHC

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) | Extraction Force (kN) | | Page number |
|---|---|---|---|---|---|---|---|---|
| | | | | | | $E_F$ | | |
| | β | | | | $F_S$ | Spring | Gas Spring | |
| **DHC052** | 0° | 52 | 140 | 52x65 | 38 | 0,62÷0,65 | - | 932 |
| **DHC065** | 0÷20° | 65 | 160 (00.40÷05.45 / 10.45) 170 (05.70 / 10.70÷20.70) | 65x70 | 44÷48 | 0,78÷1,02 | - | 936 |
| **DHC100** | 0÷20° | 100 | 200 | 100x100 | 75÷82 | - | 4,6÷6,1 | 940 |
| **DHC150** | 0÷20° | 150 | 220 (00.40÷15.45 / 20.45) 230 (15.70 / 20.70) | 150x100 | 120÷127 | - | 4,6÷6,6 | 944 |
| **DHC200** | 0° | 200 | 240 | 200x110 | 176 | - | 8,6÷10,1 | 948 |
| **DHC250** | 0° | 250 | 270 | 250x130 | 232 | - | 8,6÷9,4 | 952 |
| **DHC300** | 0° | 300 | 270 | 300x130 | 272 | - | 8,6÷9,4 | 956 |
| **DHC400** | 0° | 400 | 250 | 400x150 | 480 | - | 25,2 | 960 |

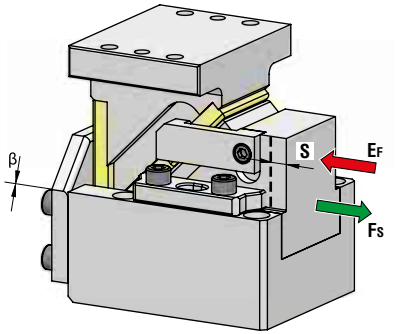







Optimized logistics for top service

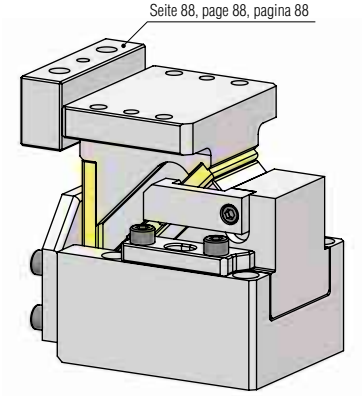
# DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| DHC052.00.25 | 0° | 25 | 38 | 0,62 |
| DHC052.00.40 | 0° | 40 | 38 | 0,63 |
| DHC052.00.60 | 0° | 60 | 38 | 0,65 |

STEP WEB | CATIA WEB | WEB | P.682

**C14.25.2538090**
Seite 88, page 88, pagina 88

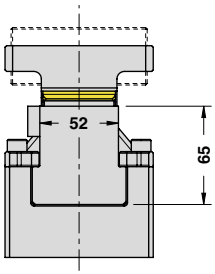


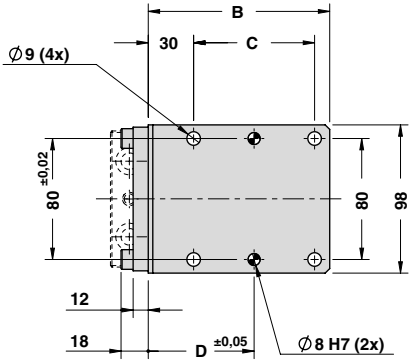
With Key - **OPTION K**

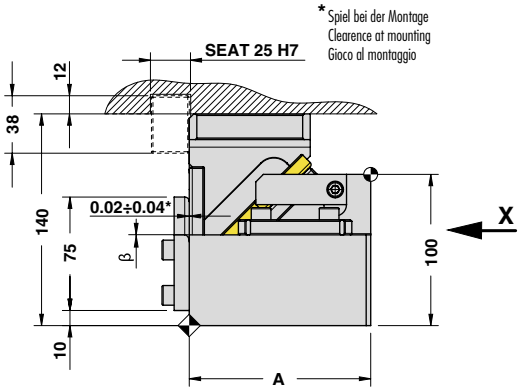
| STOCK | ORDER EXAMPLE | Art. | Work Angle = 0° | Stroke = 40 | OPTION K |
|---|---|---|---|---|---|
| | | DHC052 | 00 | 40 | K |

| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G |
| DHC052.00.25 | 0° | 25 | 120 | 120 | 80 | 70 | 40 | 40 | 80 |
| DHC052.00.40 | 0° | 40 | 135 | 135 | 95 | 80 | 50 | 45 | 90 |
| DHC052.00.60 | 0° | 60 | 180 | 180 | 140 | 55 | 70 | 55 | 110 |

## X VIEW

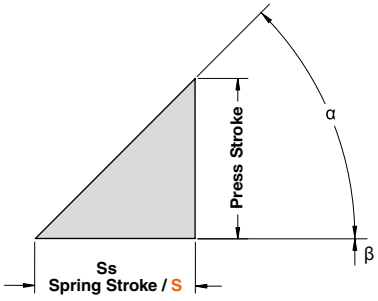


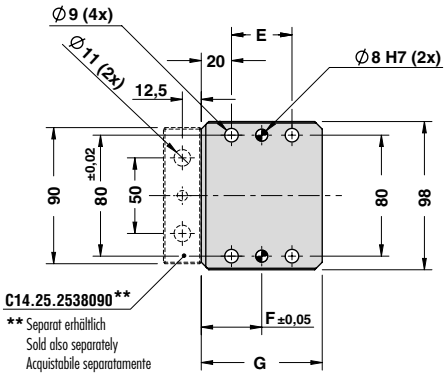



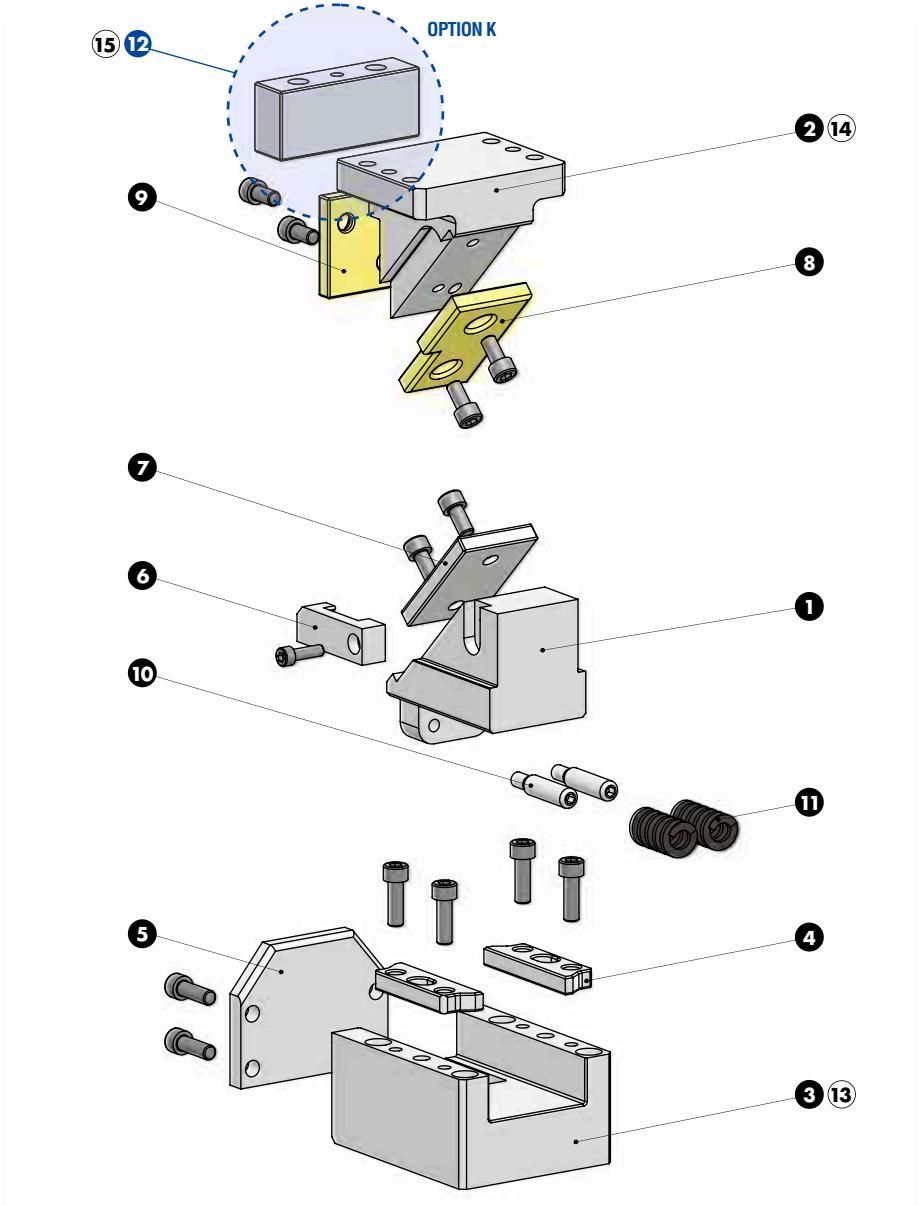

## CAM DIAGRAM

WEB



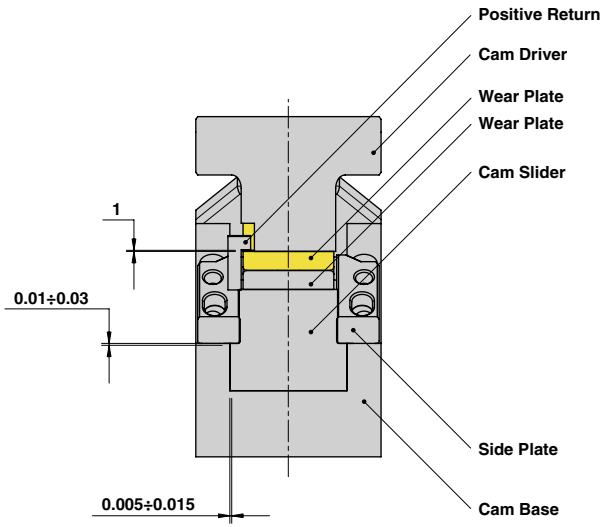

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 45° | 25 | 25 | 25 |
| 0° | 45° | 40 | 40 | 40 |
| 0° | 45° | 60 | 60 | 60 |




OPTION K
15 12
2 14
9
8
7
6
1
10
11
5
4
3 13

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

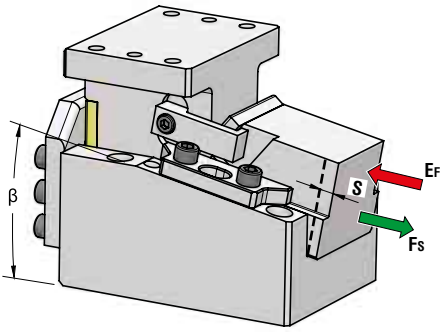
### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



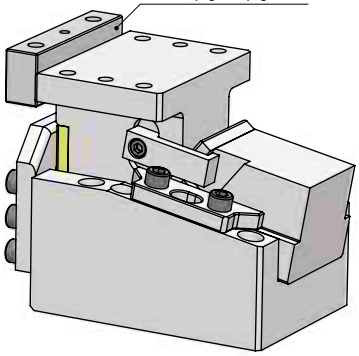

### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 1 |
| 7 | Wear Plate | CK45 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Spring Guide Pin | CK45 | 2 |
| 11 | Spring | - | 2 |
| 12 | Key (C14.25.2538090) - OPTION K | CK45 | 1 |
| 13 | Cam Base Fixing Screws M8x50 DIN 912 | - | 4 |
| 14 | Cam Driver Fixing Screws M8x30 DIN 912 | - | 4 |
| 15 | Key Fixing Screws M10x40 DIN 912 | - | 2 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




C14.25.2538120
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With Key - **OPTION K**

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| DHC065.00.40 | 0° | 40 | 44 | 0,79 |
| DHC065.00.60 | 0° | 60 | 44 | 0,80 |
| DHC065.05.45 | 5° | 45 | 48 | 0,78 |
| DHC065.05.70 | 5° | 70 | 48 | 1,02 |
| DHC065.10.45 | 10° | 45 | 48 | 0,78 |
| DHC065.10.70 | 10° | 70 | 48 | 1,02 |
| DHC065.15.45 | 15° | 45 | 48 | 0,78 |
| DHC065.15.70 | 15° | 70 | 48 | 1,02 |
| DHC065.20.45 | 20° | 45 | 48 | 0,78 |
| DHC065.20.70 | 20° | 70 | 48 | 1,02 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

STOCK — ORDER EXAMPLE

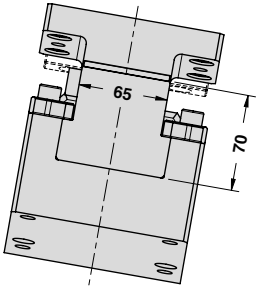
| Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|
| DHC065 | 00 | 60 | K |

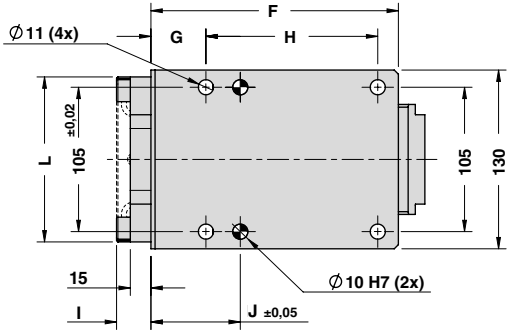
| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| DHC065.00.40 | 0° | 40 | 140 | 115 | 25 | 80 | 160 | 145 | 30 | 100 | 27 | 80 | 130 | 60 | 50 | 100 |
| DHC065.00.60 | 0° | 60 | 190 | 115 | 25 | 80 | 160 | 180 | 40 | 125 | 22 | 105 | 130 | 70 | 55 | 110 |
| DHC065.05.45 | 5° | 45 | 150,55 | 112,10 | 12,5 | 100 | 160 | 145 | 30 | 100 | 25 | 80 | 120 | 60 | 50 | 100 |
| DHC065.05.70 | 5° | 70 | 195,38 | 123,17 | 25 | 100 | 170 | 180 | 40 | 125 | 25 | 65 | 120 | 60 | 50 | 100 |
| DHC065.10.45 | 10° | 45 | 154,95 | 108,76 | 20 | 100 | 160 | 145 | 30 | 100 | 25 | 79 | 120 | 60 | 50 | 100 |
| DHC065.10.70 | 10° | 70 | 199,27 | 110,94 | 25 | 100 | 170 | 180 | 40 | 125 | 25 | 65 | 120 | 60 | 50 | 100 |
| DHC065.15.45 | 15° | 45 | 158,18 | 105,09 | 25 | 100 | 170 | 145 | 30 | 100 | 25 | 80 | 120 | 60 | 50 | 100 |
| DHC065.15.70 | 15° | 70 | 201,64 | 103,44 | 40 | 100 | 170 | 180 | 40 | 125 | 25 | 65 | 120 | 70 | 55 | 110 |
| DHC065.20.45 | 20° | 45 | 160,20 | 101,19 | 30 | 100 | 170 | 145 | 30 | 100 | 25 | 80 | 120 | 60 | 50 | 100 |
| DHC065.20.70 | 20° | 70 | 202,48 | 95,79 | 40 | 100 | 170 | 180 | 40 | 125 | 25 | 65 | 120 | 70 | 55 | 110 |

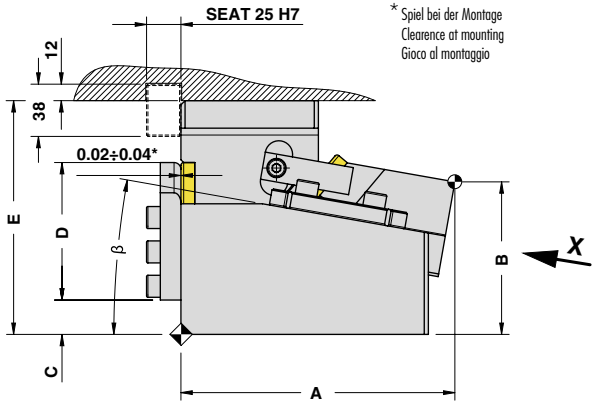
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



### X VIEW

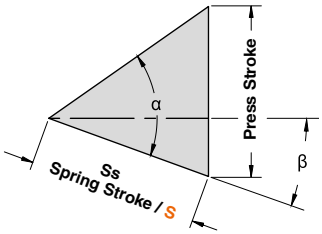


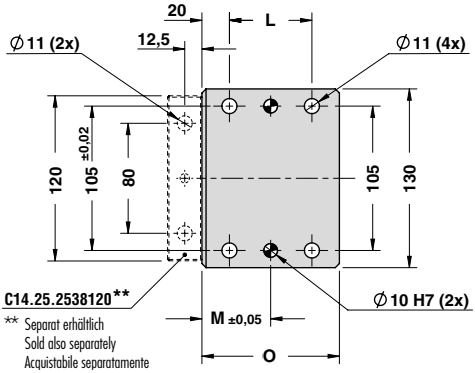




### CAM DIAGRAM

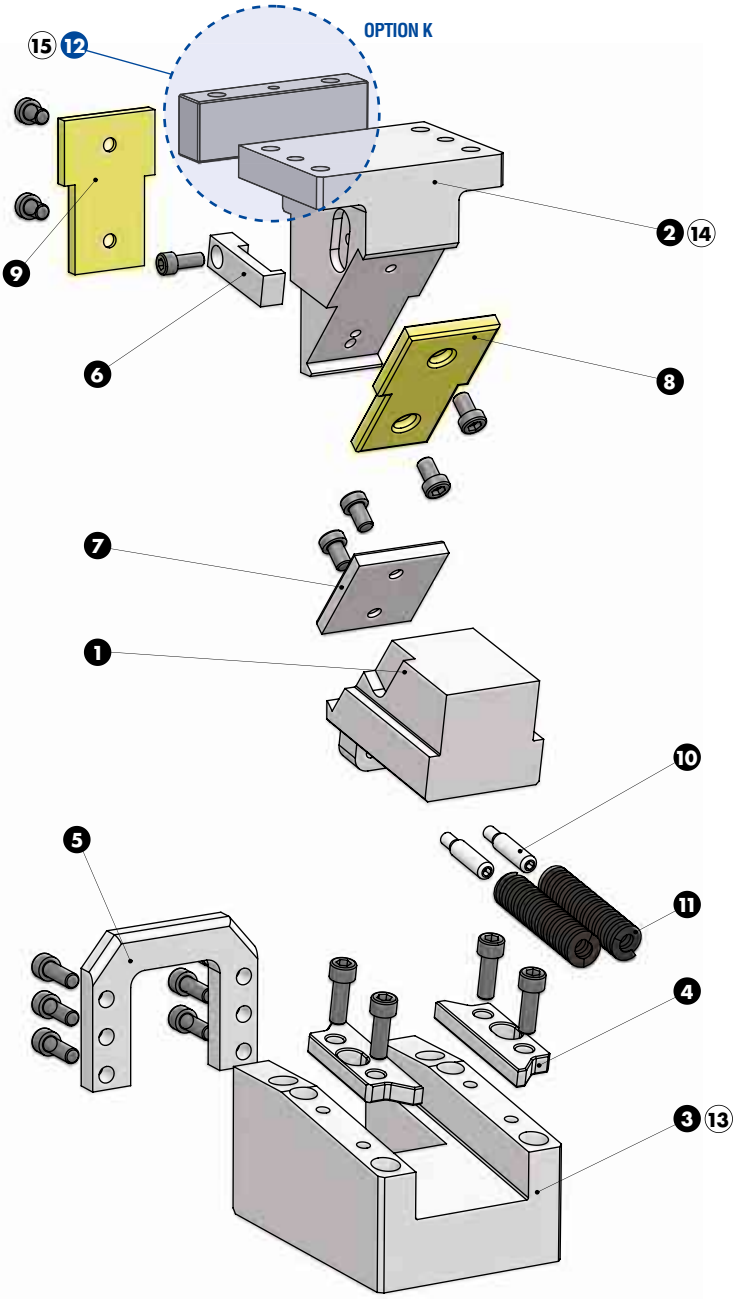
WEB




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 45° | 40 | 40 | 40 |
| 0° | 45° | 60 | 60 | 60 |
| 5° | 60° | 45 | 67,94 | 45 |
| 5° | 60° | 70 | 105,69 | 70 |
| 10° | 60° | 45 | 60,63 | 45 |
| 10° | 60° | 70 | 94,31 | 70 |
| 15° | 60° | 45 | 55,11 | 45 |
| 15° | 60° | 70 | 85,73 | 70 |
| 20° | 60° | 45 | 50,87 | 45 |
| 20° | 60° | 70 | 79,14 | 70 |

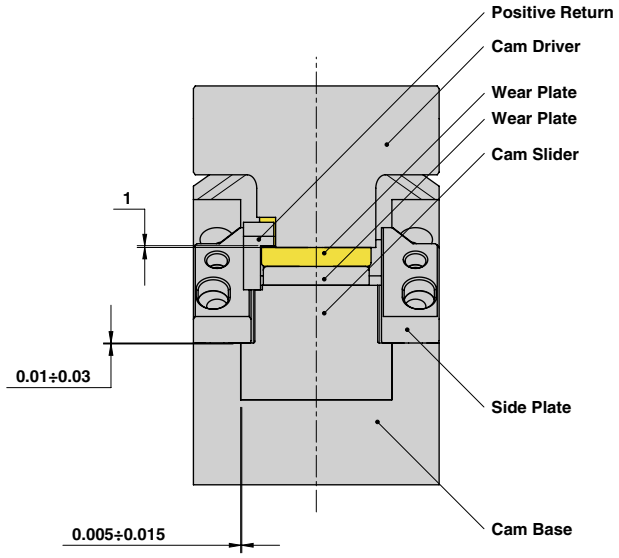


## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



# DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

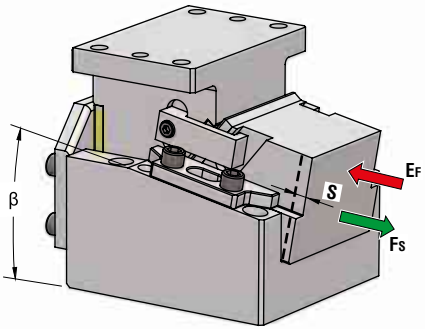




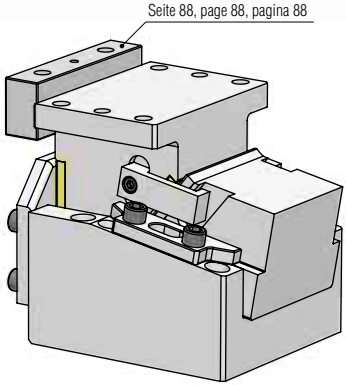

## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 1 |
| 7 | Wear Plate | CK45 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Spring Guide Pin | CK45 | 2 |
| 11 | Spring | - | 2 |
| 12 | Key (C14.25.2538120) - OPTION K | CK45 | 1 |
| 13 | Cam Base Fixing Screws M10x50 DIN 912 | - | 4 |
| 14 | Cam Driver Fixing Screws M10x40 DIN 912 | - | 4 |
| 15 | Key Fixing Screws M10x40 DIN 912 | - | 2 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




C14.25.3248150
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With Key - **OPTION K**

| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Gas Spring |
| DHC100.00.40 | 0° | 40 | 75 | 4,6 |
| DHC100.00.60 | 0° | 60 | 75 | 5,9 |
| DHC100.00.80 | 0° | 80 | 75 | 6,8 |
| DHC100.05.45 | 5° | 45 | 82 | 4,6 |
| DHC100.05.70 | 5° | 70 | 82 | 6,1 |
| DHC100.10.45 | 10° | 45 | 82 | 4,6 |
| DHC100.10.70 | 10° | 70 | 82 | 6,1 |
| DHC100.15.45 | 15° | 45 | 82 | 4,6 |
| DHC100.15.70 | 15° | 70 | 82 | 6,1 |
| DHC100.20.45 | 20° | 45 | 82 | 4,6 |
| DHC100.20.70 | 20° | 70 | 82 | 6,1 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

STOCK — ORDER EXAMPLE

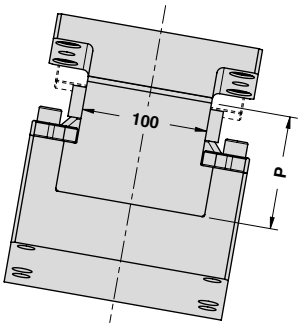
| Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|
| DHC100 | 00 | 60 | K |

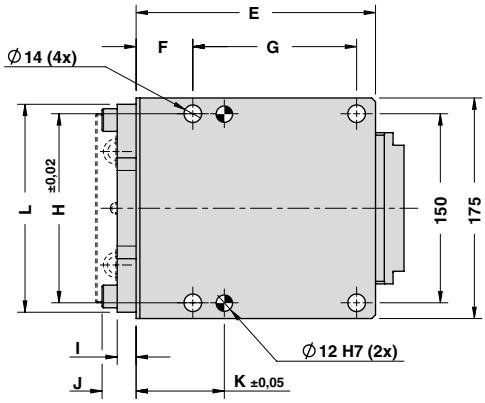
| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| DHC100.00.40 | 0° | 40 | 190 | 150 | 30 | 90 | 190 | 45 | 130 | 140 | 16 | 28 | 105 | 170 | 80 | 60 | 120 | 100 |
| DHC100.00.60 | 0° | 60 | 210 | 150 | 30 | 90 | 190 | 45 | 130 | 140 | 16 | 28 | 105 | 170 | 100 | 70 | 140 | 100 |
| DHC100.00.80 | 0° | 80 | 250 | 150 | 10 | 115 | 220 | 45 | 160 | 140 | 15 | 27 | 135 | 165 | 110 | 75 | 150 | 100 |
| DHC100.05.45 | 5° | 45 | 172,22 | 145,28 | 27,5 | 115 | 160 | 40 | 105 | 140 | 15 | 27 | 90 | 165 | 60 | 50 | 100 | 90 |
| DHC100.05.70 | 5° | 70 | 207,08 | 147,23 | 30 | 115 | 190 | 45 | 130 | 150 | 15 | 27 | 70 | 165 | 80 | 60 | 120 | 90 |
| DHC100.10.45 | 10° | 45 | 178,12 | 134,98 | 30 | 115 | 160 | 40 | 105 | 140 | 15 | 27 | 90 | 165 | 60 | 50 | 100 | 90 |
| DHC100.10.70 | 10° | 70 | 212,59 | 133,90 | 30 | 115 | 190 | 45 | 130 | 150 | 15 | 27 | 70 | 165 | 80 | 60 | 120 | 90 |
| DHC100.15.45 | 15° | 45 | 182,67 | 129,23 | 32,5 | 115 | 160 | 40 | 105 | 140 | 15 | 27 | 90 | 165 | 70 | 55 | 110 | 90 |
| DHC100.15.70 | 15° | 70 | 216,48 | 130,17 | 35 | 115 | 190 | 45 | 130 | 150 | 15 | 27 | 70 | 165 | 90 | 65 | 130 | 90 |
| DHC100.20.45 | 20° | 45 | 185,83 | 118,14 | 35 | 115 | 160 | 40 | 105 | 140 | 15 | 27 | 90 | 165 | 70 | 55 | 110 | 90 |
| DHC100.20.70 | 20° | 70 | 218,72 | 121,17 | 45 | 115 | 190 | 45 | 130 | 150 | 15 | 27 | 70 | 165 | 90 | 65 | 130 | 90 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



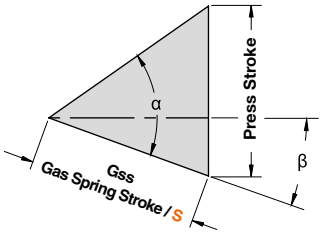
### X VIEW

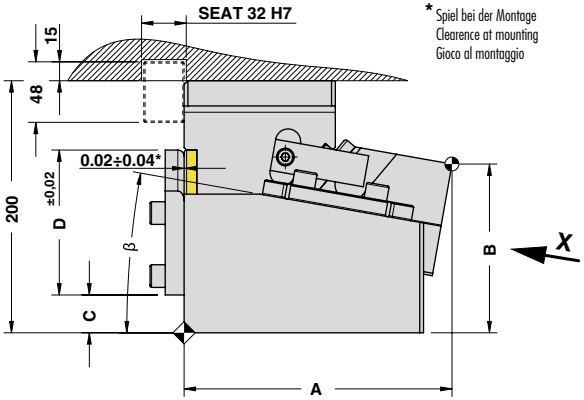



### CAM DIAGRAM

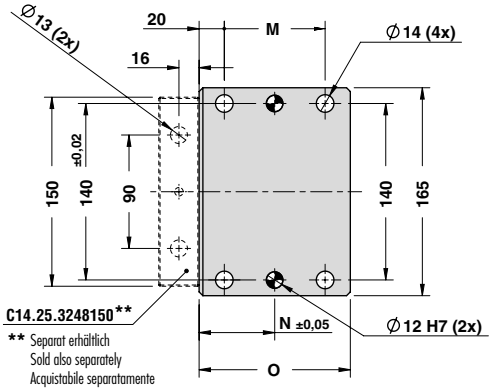
WEB



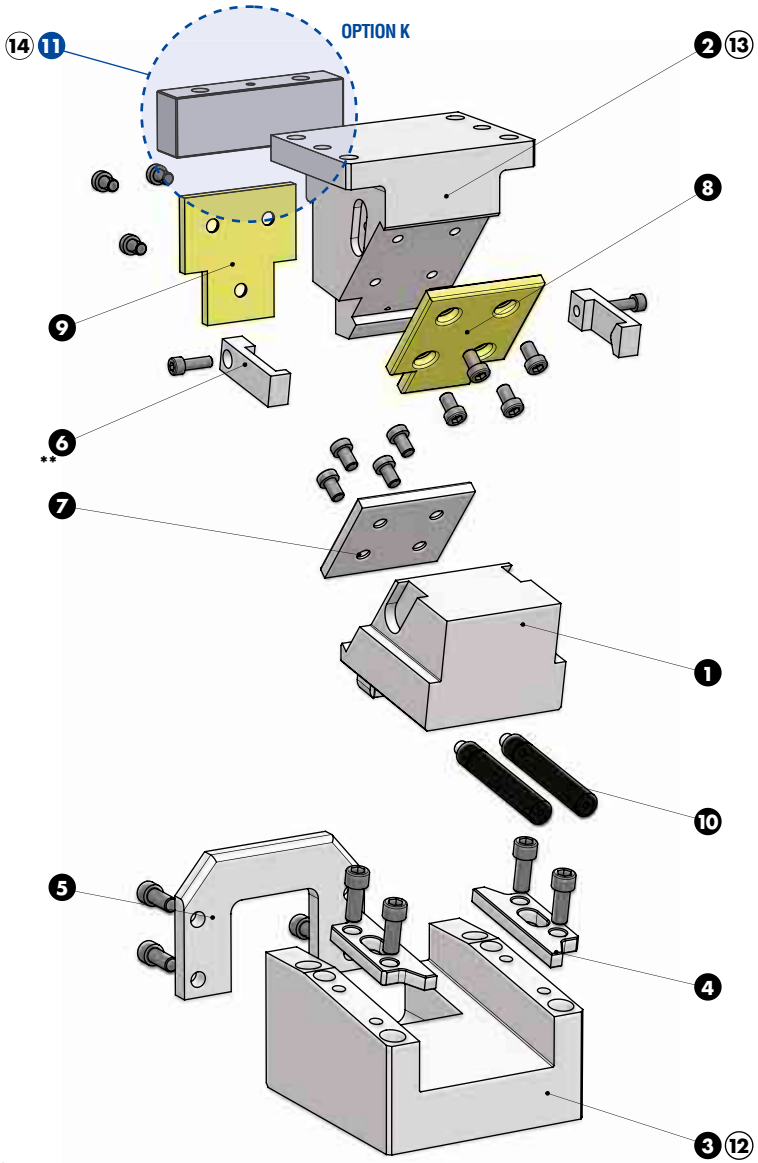

* Spiel bei der Montage
Clearence at mounting
Gioco al montaggio

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 45° | 40 | 40 | 40 |
| 0° | 45° | 60 | 60 | 60 |
| 0° | 45° | 80 | 80 | 80 |
| 5° | 60° | 45 | 67,94 | 45 |
| 5° | 60° | 70 | 105,69 | 70 |
| 10° | 60° | 45 | 60,63 | 45 |
| 10° | 60° | 70 | 94,31 | 70 |
| 15° | 60° | 45 | 55,11 | 45 |
| 15° | 60° | 70 | 85,73 | 70 |
| 20° | 60° | 45 | 50,87 | 45 |
| 20° | 60° | 70 | 79,14 | 70 |




** Separat erhältlich
Sold also separately
Acquistabile separatamente

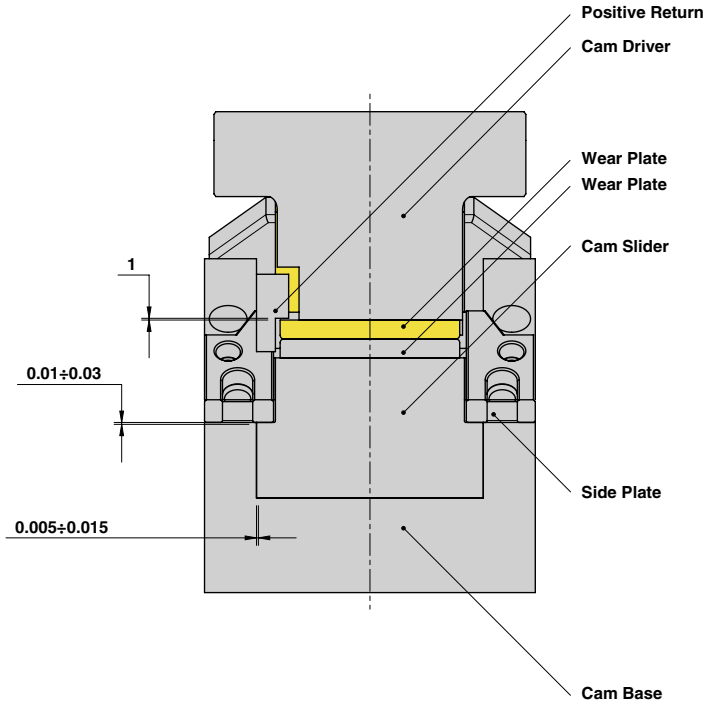
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




** Only nr.1 positive re
DHC100.00 mit nur einer Zwangsrückholung.
Solo un gancio di sicurezza per le DHC100.00.

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

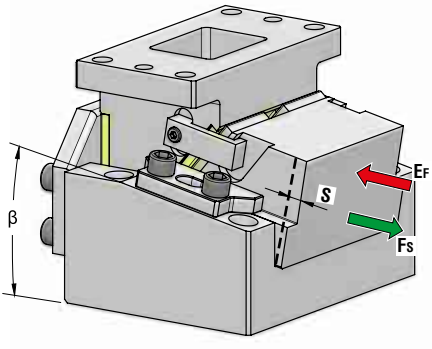





### PART LIST

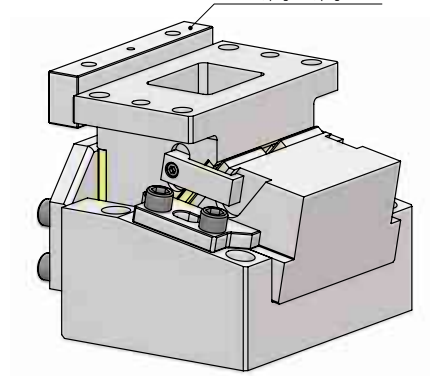
| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 1 |
| 7 | Wear Plate | CK45 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Gas Spring | - | 2 |
| 11 | Key (C14.25.3248150) - OPTION K | CK45 | 1 |
| 12 | Cam Base Fixing Screws M12x60 DIN 912 | - | 4 |
| 13 | Cam Driver Fixing Screws M12x45 DIN 912 | - | 4 |
| 14 | Key Fixing Screws M12x40 DIN 912 | - | 2 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Gas Spring |
| DHC150.00.40 | 0° | 40 | 120 | 5,7 |
| DHC150.00.60 | 0° | 60 | 127 | 5,9 |
| DHC150.05.45 | 5° | 45 | 127 | 4,6 |
| DHC150.05.70 | 5° | 70 | 127 | 6,6 |
| DHC150.10.45 | 10° | 45 | 127 | 4,6 |
| DHC150.10.70 | 10° | 70 | 127 | 6,6 |
| DHC150.15.45 | 15° | 45 | 127 | 4,6 |
| DHC150.15.70 | 15° | 70 | 127 | 6,6 |
| DHC150.20.45 | 20° | 45 | 127 | 4,6 |
| DHC150.20.70 | 20° | 70 | 127 | 6,6 |

C14.25.3248210
Seite 88, page 88, pagina 88



With Key - **OPTION K**

STEP WEB | CATIA WEB | WEB | P.682

STOCK ORDER EXAMPLE

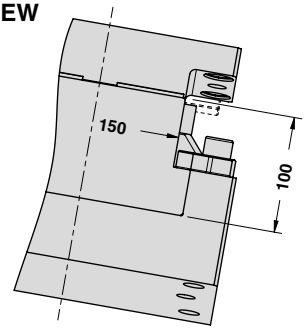
| Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|
| DHC150 | 00 | 60 | K |

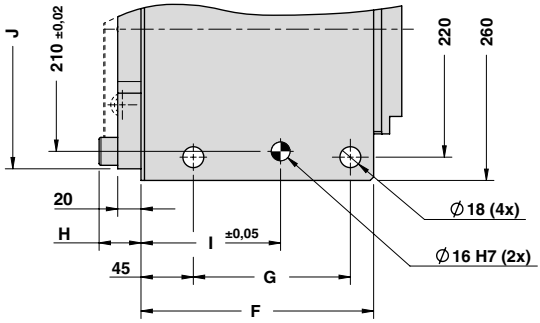
| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G | H | I | J | K | L | M |
| DHC150.00.40 | 0° | 40 | 190 | 170 | 45 | 100 | 220 | 190 | 125 | 35 | 105 | 250 | 80 | 60 | 120 |
| DHC150.00.60 | 0° | 60 | 210 | 170 | 45 | 100 | 220 | 200 | 135 | 35 | 110 | 250 | 100 | 70 | 140 |
| DHC150.05.45 | 5° | 45 | 193,01 | 158,50 | 30 | 125 | 220 | 190 | 125 | 36 | 105 | 240 | 70 | 55 | 110 |
| DHC150.05.70 | 5° | 70 | 217,92 | 166,32 | 40 | 125 | 220 | 200 | 135 | 36 | 120 | 240 | 90 | 65 | 130 |
| DHC150.10.45 | 10° | 45 | 199,55 | 151,36 | 40 | 125 | 220 | 190 | 125 | 36 | 105 | 240 | 70 | 55 | 110 |
| DHC150.10.70 | 10° | 70 | 224,17 | 152,02 | 40 | 125 | 220 | 200 | 135 | 36 | 120 | 240 | 90 | 65 | 130 |
| DHC150.15.45 | 15° | 45 | 204,58 | 143,71 | 40 | 125 | 220 | 190 | 125 | 36 | 105 | 240 | 80 | 60 | 120 |
| DHC150.15.70 | 15° | 70 | 228,73 | 152,24 | 55 | 125 | 230 | 200 | 135 | 36 | 120 | 240 | 100 | 70 | 140 |
| DHC150.20.45 | 20° | 45 | 208,05 | 135,70 | 40 | 125 | 220 | 190 | 125 | 36 | 105 | 240 | 80 | 60 | 120 |
| DHC150.20.70 | 20° | 70 | 231,54 | 137,15 | 55 | 125 | 230 | 200 | 135 | 36 | 120 | 240 | 100 | 70 | 140 |

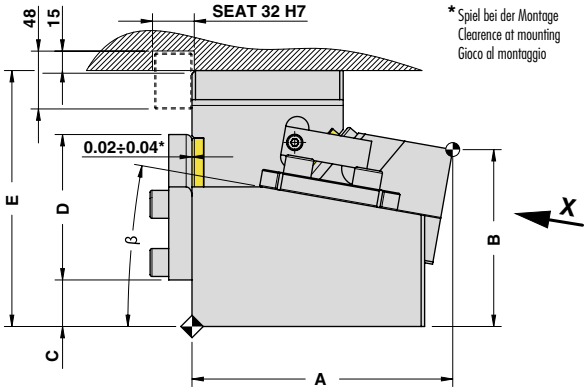
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



X VIEW



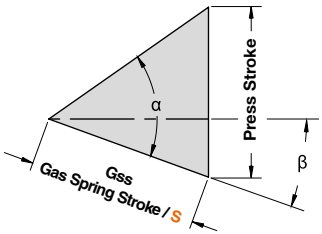



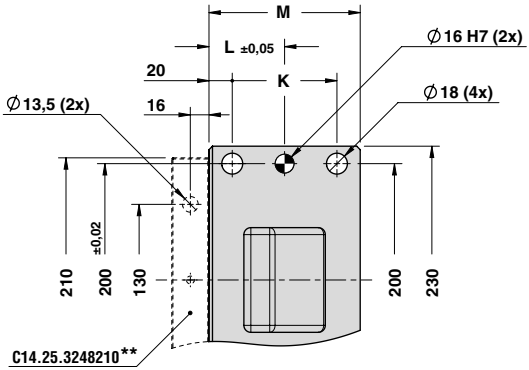

* Spiel bei der Montage
Clearence at mounting
Gioco al montaggio

CAM DIAGRAM

WEB

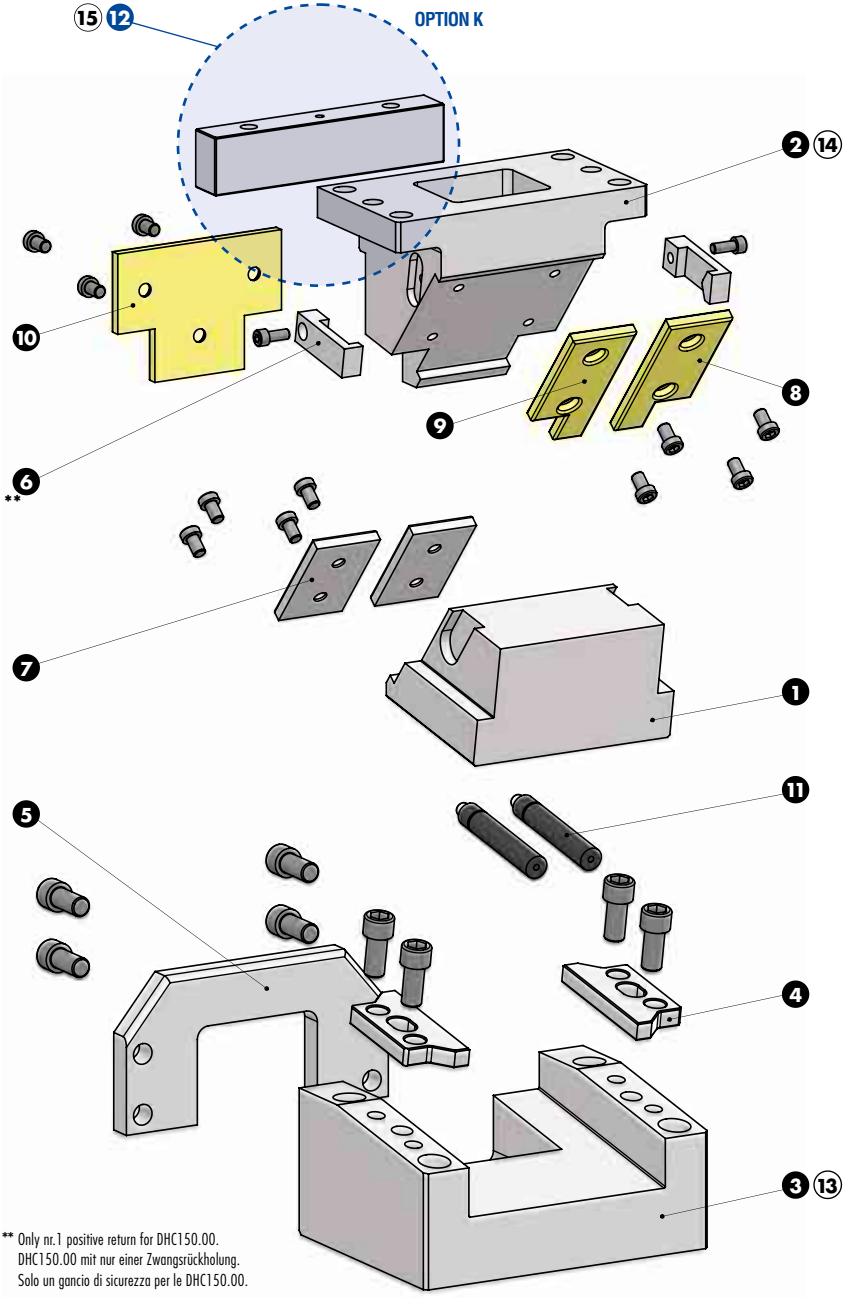



| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 45° | 40 | 40 | 40 |
| 0° | 45° | 60 | 60 | 60 |
| 5° | 60° | 45 | 67,94 | 45 |
| 5° | 60° | 70 | 105,69 | 70 |
| 10° | 60° | 45 | 60,63 | 45 |
| 10° | 60° | 70 | 94,31 | 70 |
| 15° | 60° | 45 | 55,11 | 45 |
| 15° | 60° | 70 | 85,73 | 70 |
| 20° | 60° | 45 | 50,87 | 45 |
| 20° | 60° | 70 | 79,14 | 70 |




** Separat erhältlich
Sold also separately
Acquistabile separatamente

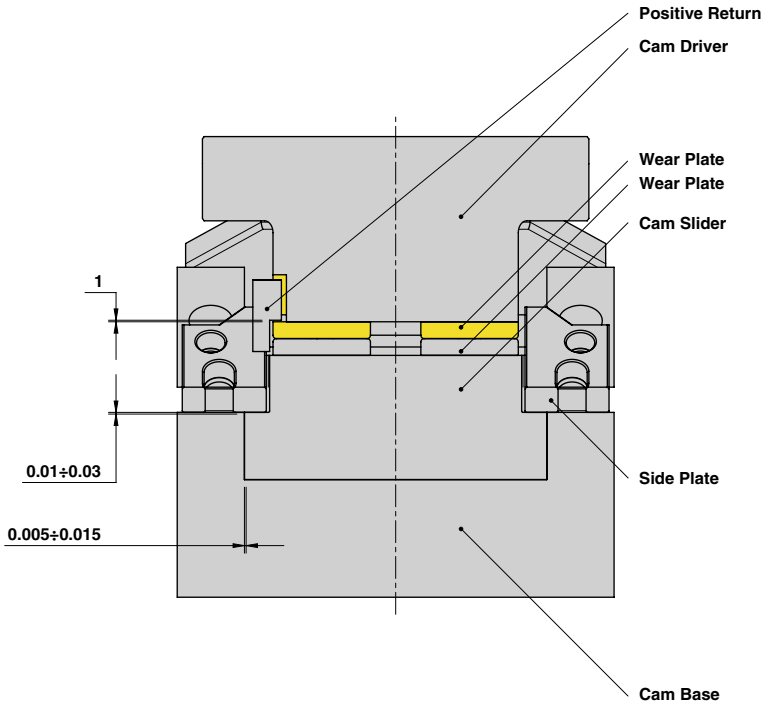
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




** Only nr.1 positive return for DHC150.00.
DHC150.00 mit nur einer Zwangsrückholung.
Solo un gancio di sicurezza per le DHC150.00.

# DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

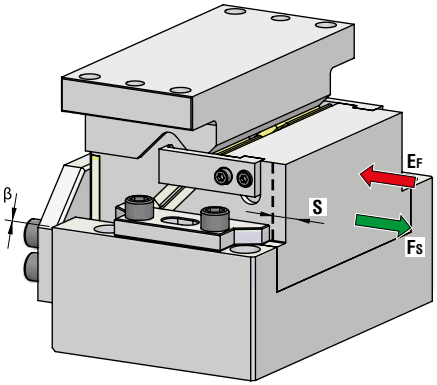
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 2 |
| 7 | Wear Plate | CK45 | 1 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 11 | Gas Spring | - | 2 |
| 12 | Key (C14.25.3248210) - OPTION K | CK45 | 1 |
| 13 | Cam Base Fixing Screws M16x80 DIN 912 | - | 4 |
| 14 | Cam Driver Fixing Screws M16x55 DIN 912 | - | 4 |
| 15 | Key Fixing Screws M12x40 DIN 912 | - | 2 |

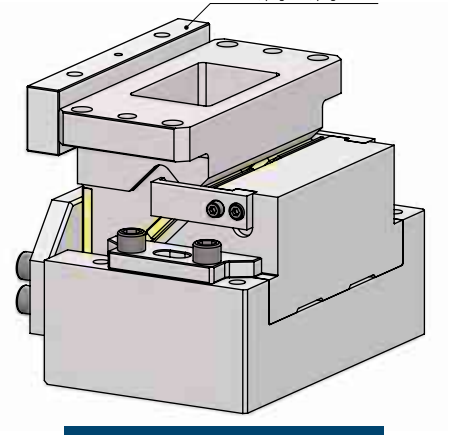
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Gas Spring |
| DHC200.00.40 | 0° | 40 | 176 | 8,6 |
| DHC200.00.60 | 0° | 60 | 176 | 10,1 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

**C14.25.3258260**
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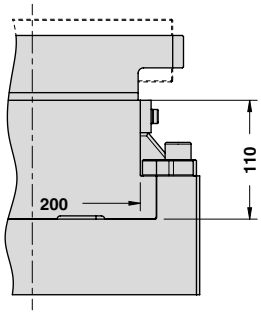


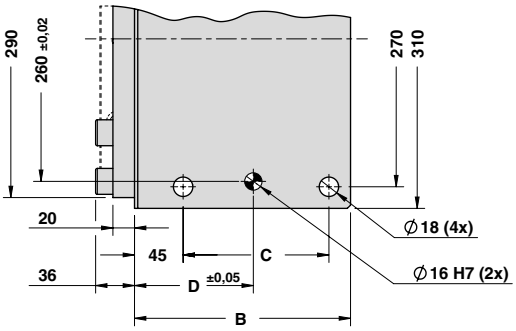
With Key - **OPTION K**

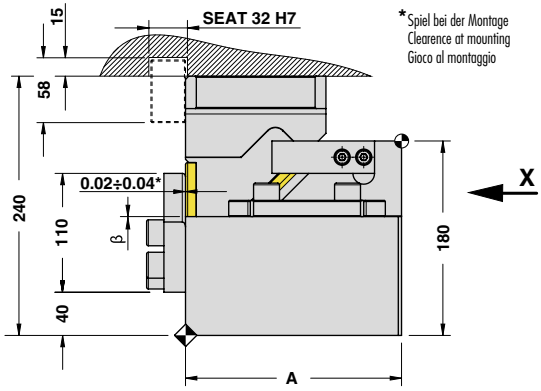
| STOCK | ORDER EXAMPLE | Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|---|---|
| | | DHC200 | 00 | 60 | K |

| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G |
| DHC200.00.40 | 0° | 40 | 200 | 200 | 135 | 110 | 90 | 65 | 130 |
| DHC200.00.60 | 0° | 60 | 220 | 210 | 145 | 120 | 110 | 75 | 150 |

## X VIEW

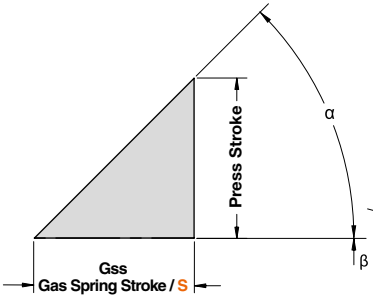


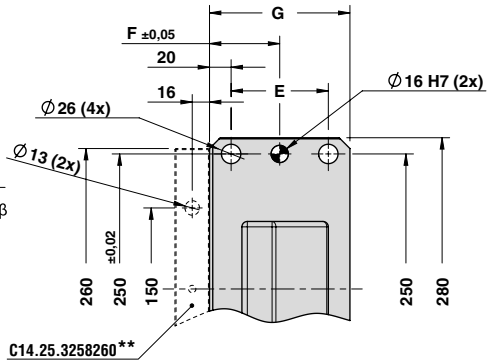




## CAM DIAGRAM

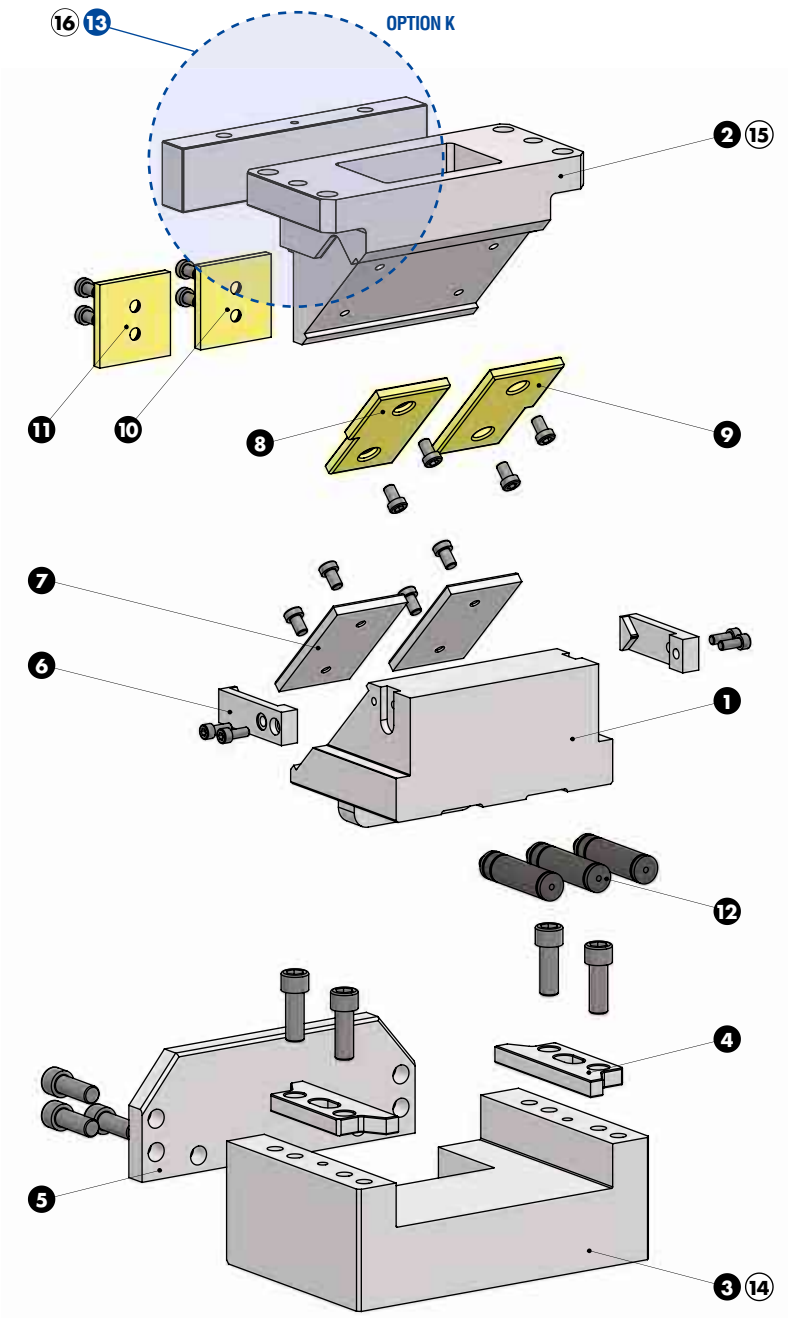
WEB



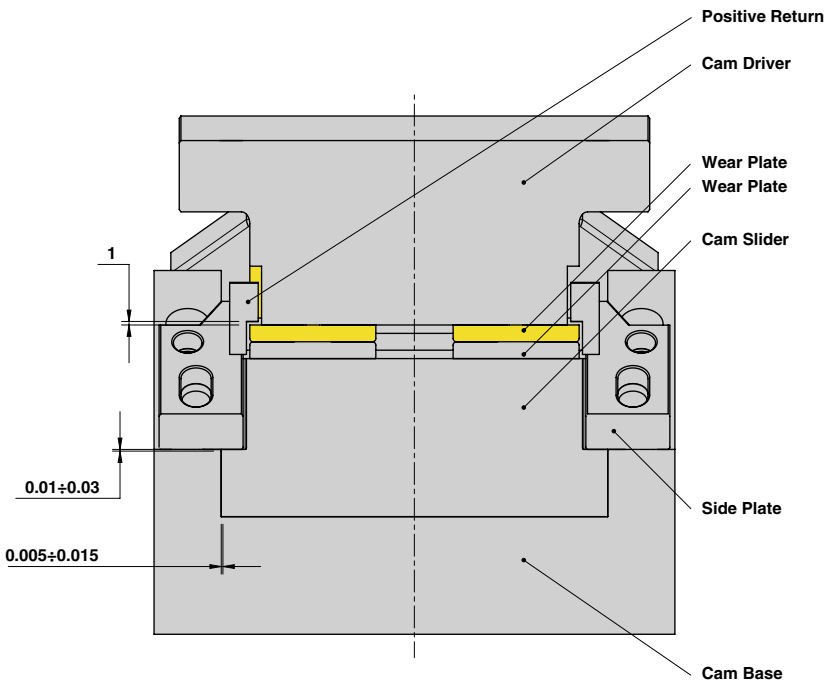

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 45° | 40 | 25 | 25 |
| 0° | 45° | 60 | 40 | 40 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



# DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

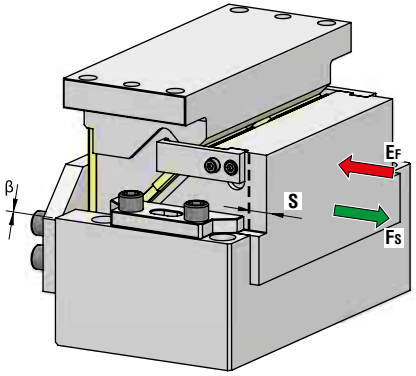
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 2 |
| 7 | Wear Plate | CK45 | 2 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 12 | Gas Spring | - | 3 |
| 13 | Key (C14.25.3258260) - OPTION K | CK45 | 1 |
| 14 | Cam Base Fixing Screws M16x80 DIN 912 | - | 4 |
| 15 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 16 | Key Fixing Screws M12x40 DIN 912 | - | 2 |

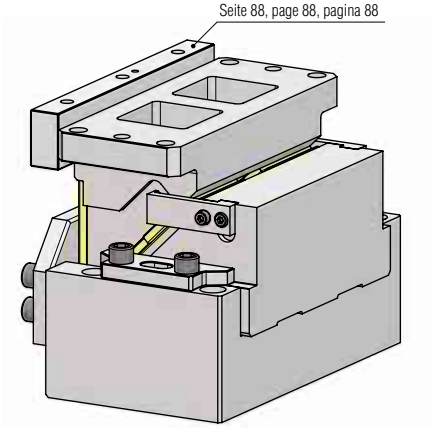
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Gas Spring |
| DHC250.00.40 | 0° | 40 | 232 | 8,6 |
| DHC250.00.60 | 0° | 60 | 232 | 9,4 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

**C14.25.3258310**
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With Key - **OPTION K**

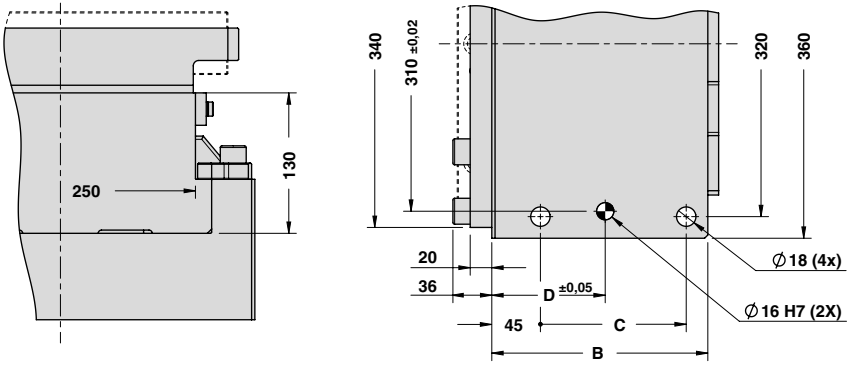
| STOCK | ORDER EXAMPLE | Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|---|---|
| | | DHC250 | 00 | 60 | K |

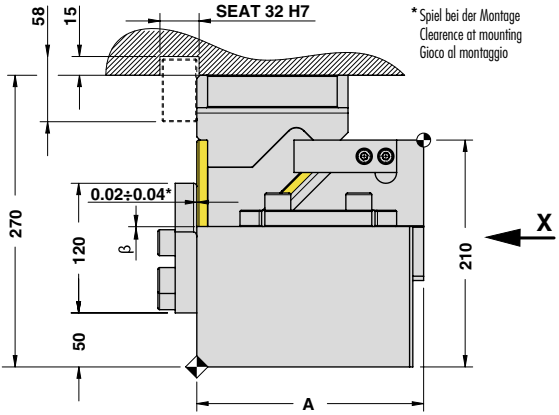
| OMCR CODE | Work Angle | Stroke | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G |
| DHC250.00.40 | 0° | 40 | 210 | 200 | 135 | 105 | 100 | 70 | 140 |
| DHC250.00.60 | 0° | 60 | 230 | 220 | 155 | 125 | 120 | 80 | 160 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



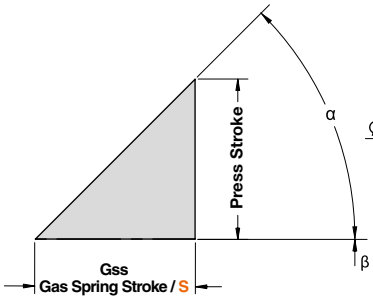
### X VIEW

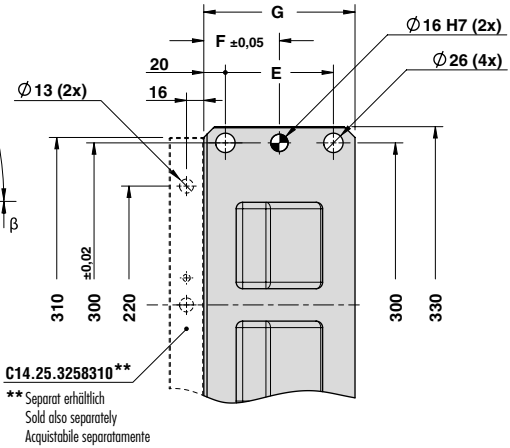


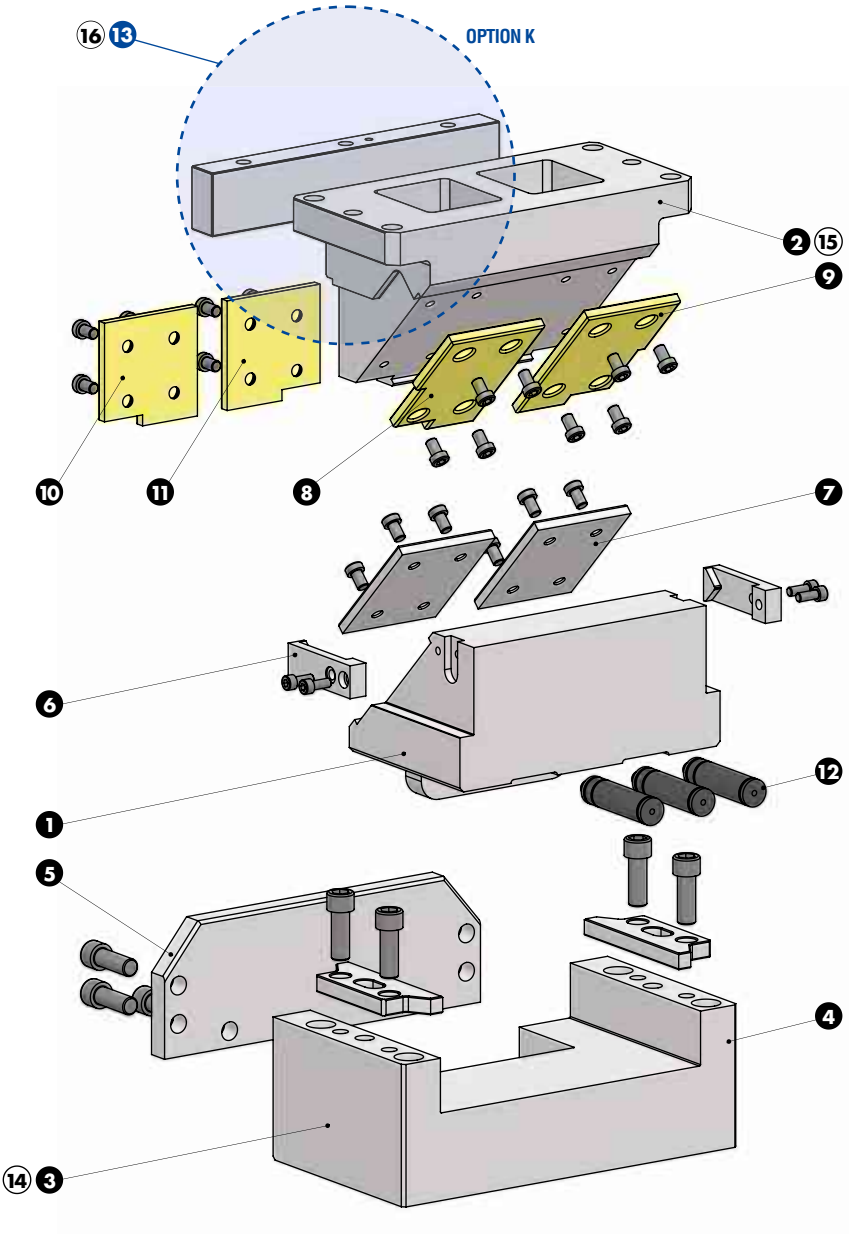

### CAM DIAGRAM

WEB



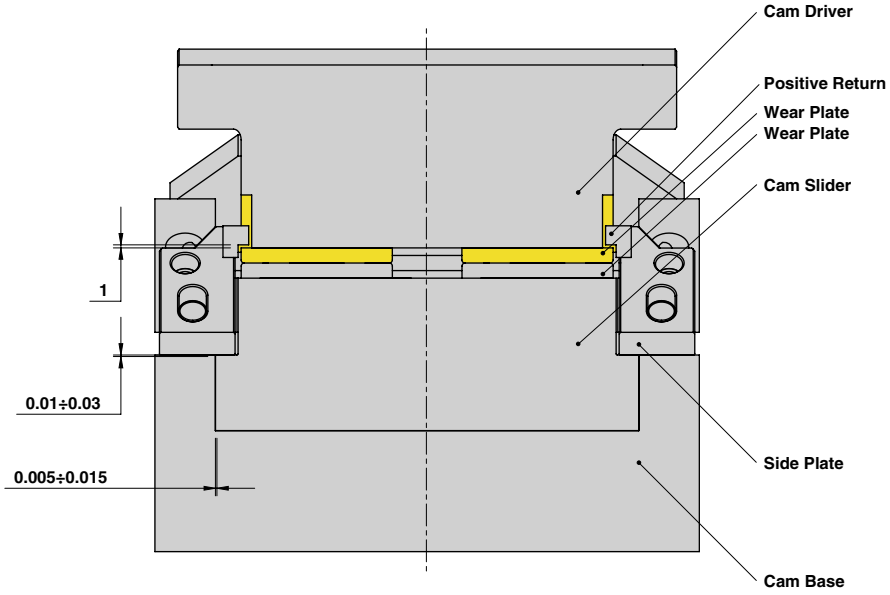




| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 45° | 40 | 40 | 40 |
| 0° | 45° | 60 | 60 | 60 |


16 13
OPTION K
2 15
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14 3

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

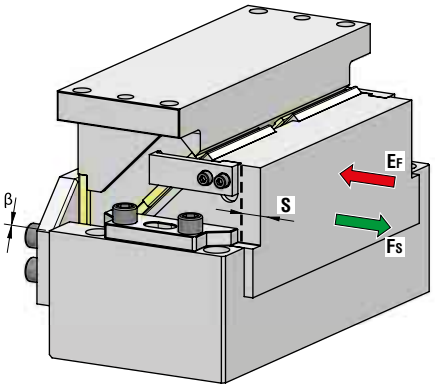





### PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 2 |
| 7 | Wear Plate | CK45 | 2 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 12 | Gas Spring | - | 3 |
| 13 | Key (C14.25.3258310) - OPTION K | CK45 | 1 |
| 14 | Cam Base Fixing Screws M16x90 DIN 912 | - | 4 |
| 15 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 16 | Key Fixing Screws M12x50 DIN 912 | - | 3 |

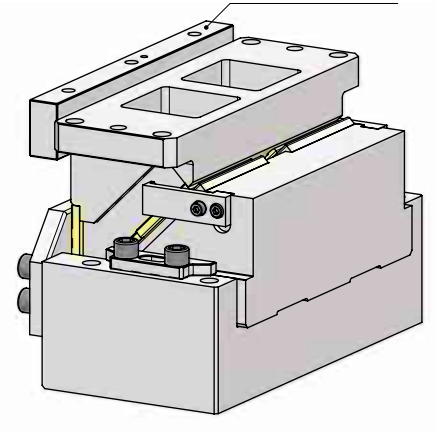
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | EF |
| | β | S | Fs | Gas Spring |
| DHC300.00.40 | 0° | 40 | 272 | 8,6 |
| DHC300.00.60 | 0° | 60 | 272 | 9,4 |

3D STEP WEB | 3D CATIA WEB | WEB | P.682

C14.25.3258350
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With Key - **OPTION K**

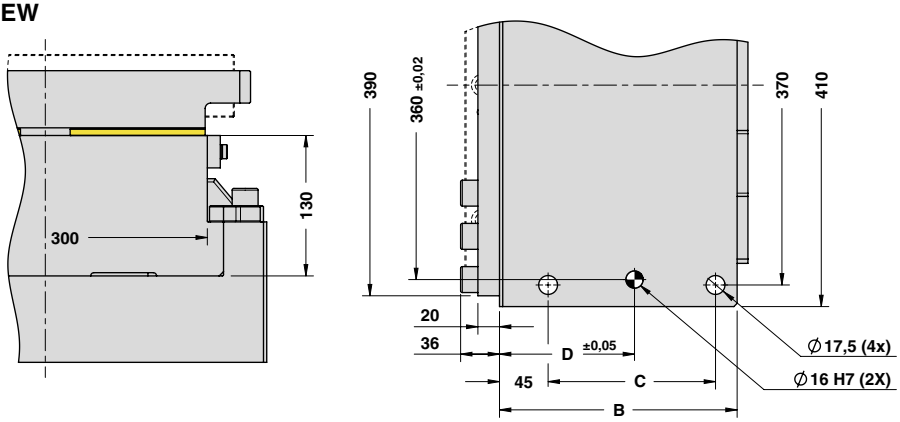
| STOCK | ORDER EXAMPLE | Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|---|---|
| | | DHC300 | 00 | 60 | K |

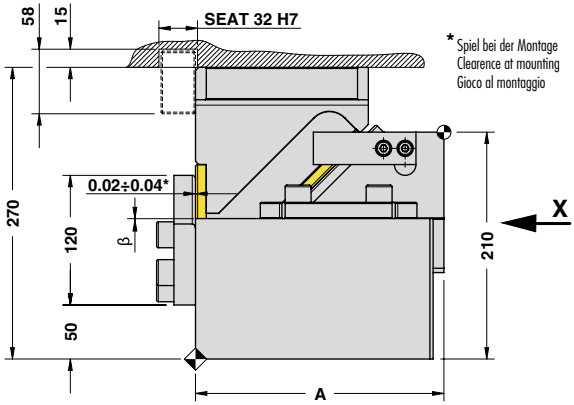
| OMCR CODE | Work Angle | Stroke | Overall Dimensions (mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G |
| DHC300.00.40 | 0° | 40 | 210 | 200 | 135 | 105 | 100 | 70 | 140 |
| DHC300.00.60 | 0° | 60 | 230 | 220 | 155 | 125 | 120 | 80 | 160 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



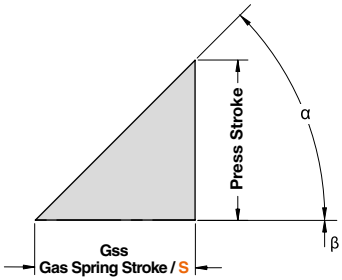
### X VIEW

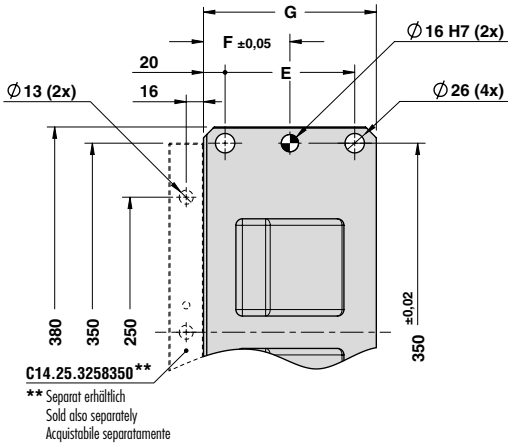



### CAM DIAGRAM

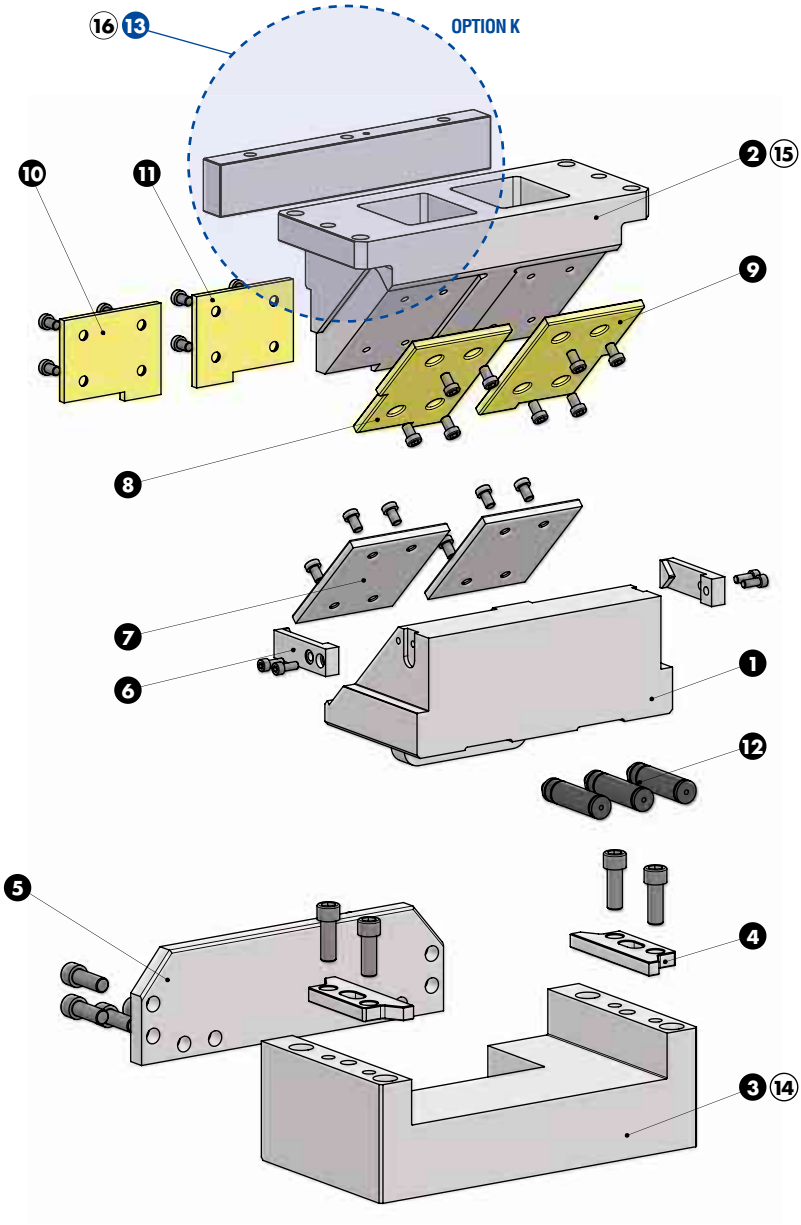
WEB



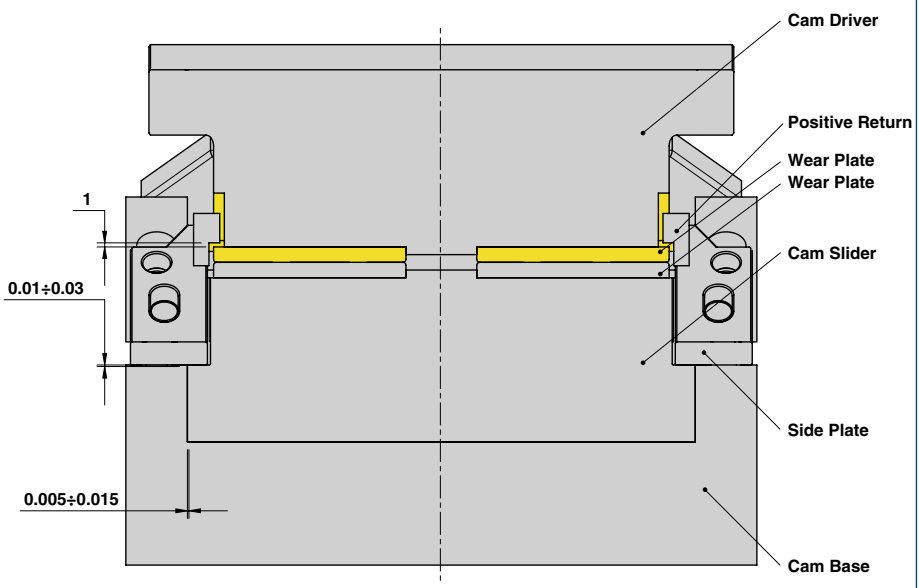

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 45° | 40 | 40 | 40 |
| 0° | 45° | 60 | 60 | 60 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



# DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

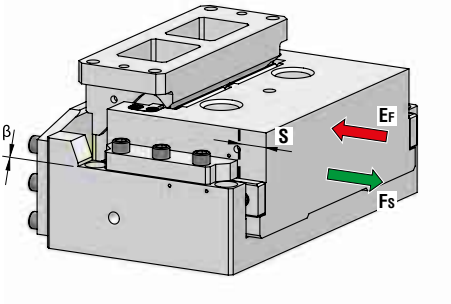
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES




## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | CK45 | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return | CK45 | 2 |
| 7 | Wear Plate | CK45 | 2 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 11 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 12 | Gas Spring | - | 3 |
| 13 | Key (C14.25.3258350) - OPTION K | CK45 | 1 |
| 14 | Cam Base Fixing Screws M16x90 DIN 912 | - | 4 |
| 15 | Cam Driver Fixing Screws M16x60 DIN 912 | - | 4 |
| 16 | Key Fixing Screws M12x50 DIN 912 | - | 3 |

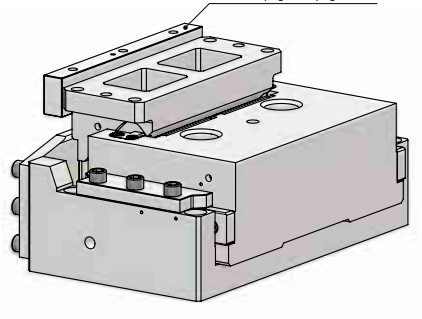
## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Gas Spring |
| DHC400.00.60 | 0° | 60 | 480 | 25,2 |

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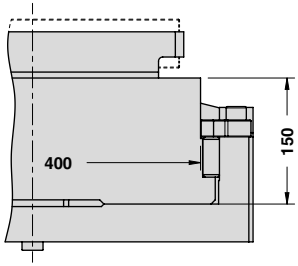
**C14.25.3258350**
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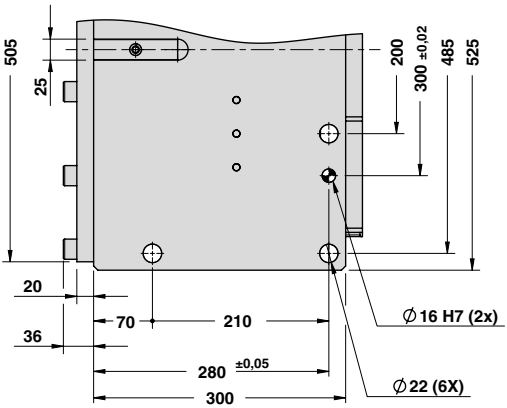


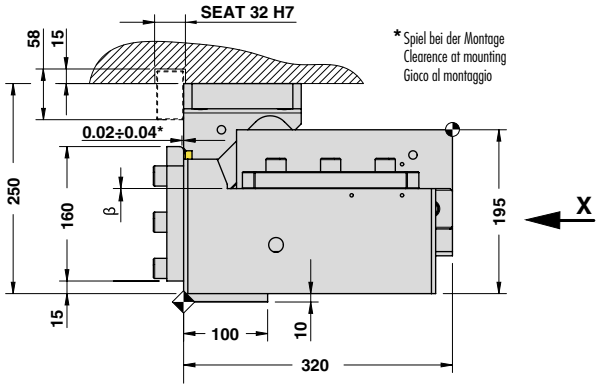
With Key - **OPTION K**

| STOCK | ORDER EXAMPLE | Art. | Work Angle = 0° | Stroke = 60 | OPTION K |
|---|---|---|---|---|---|
| | | DHC400 | 00 | 60 | K |

## X VIEW

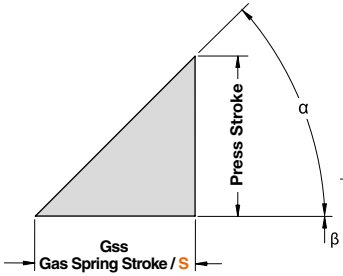


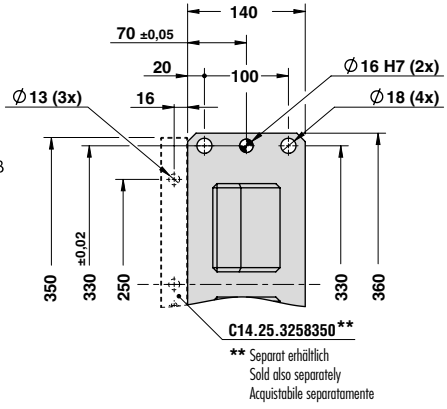




## CAM DIAGRAM

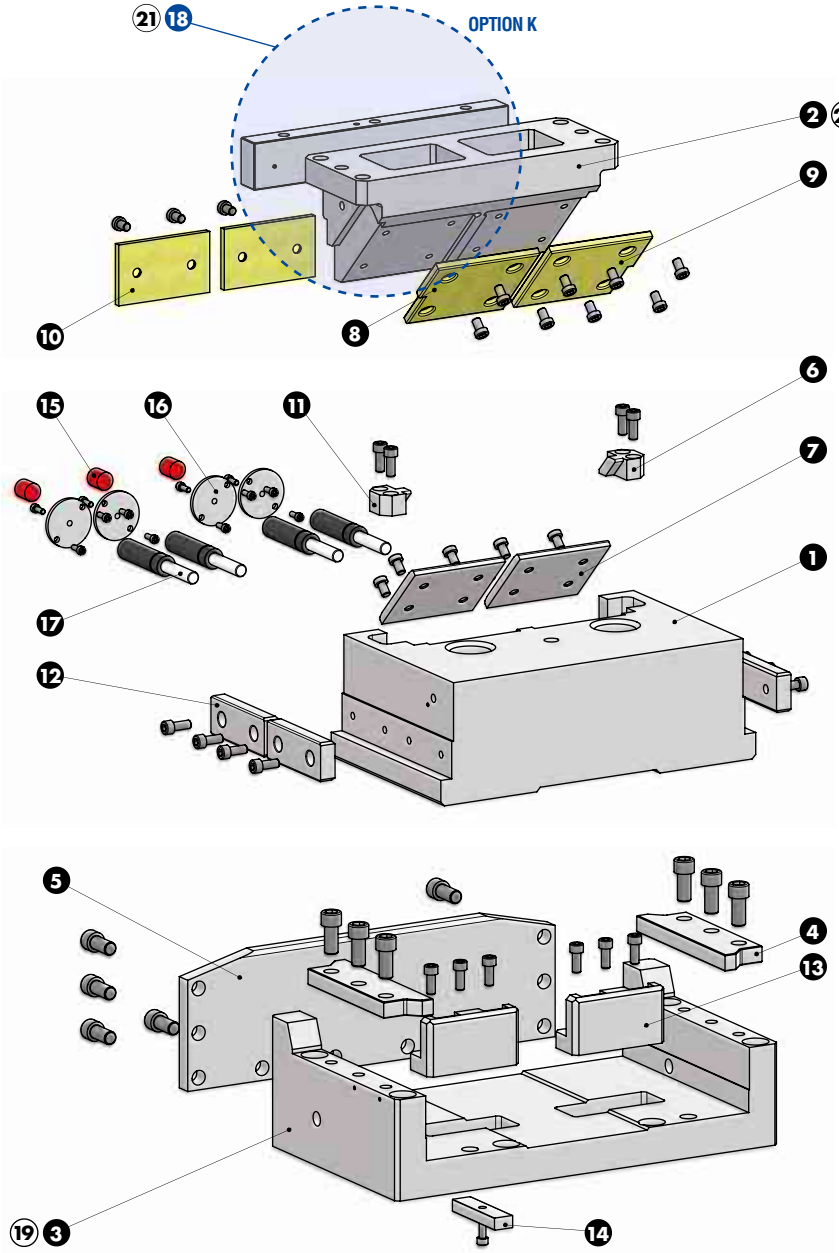
WEB



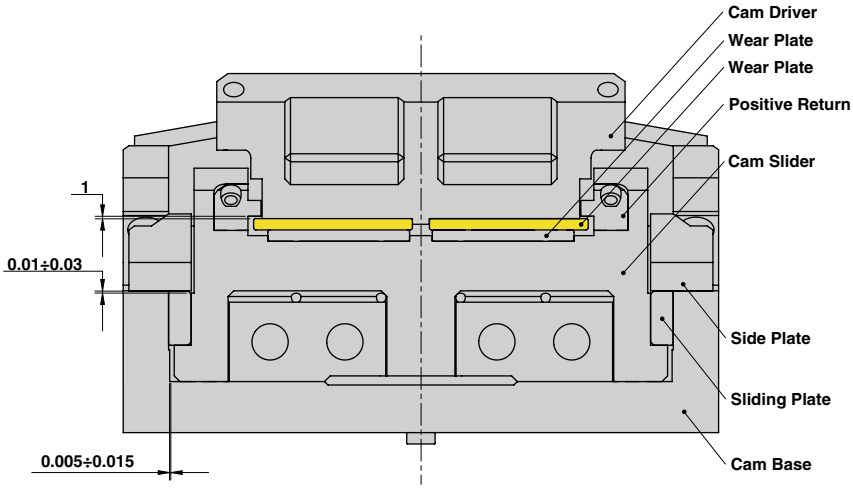

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Gas Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Gss |
| 0° | 45° | 60 | 60 | 60 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



# DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

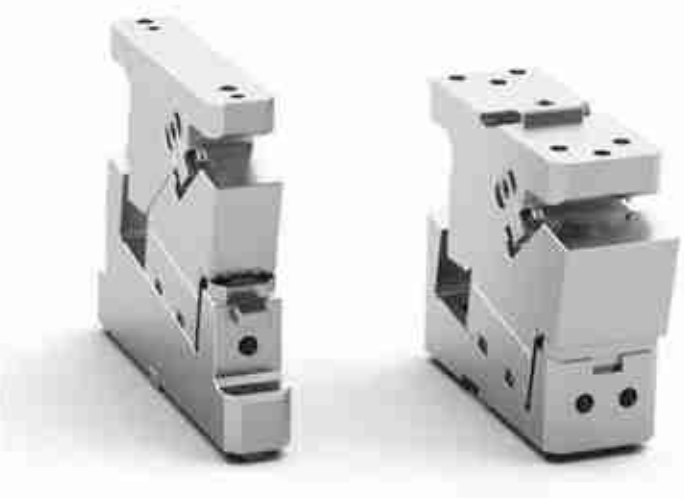
## SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES






## PART LIST

| Particular number | Description | Material | Quantity |
|---|---|---|---|
| 1 | Cam Slider | GGG-45 + Graphite | 1 |
| 2 | Cam Driver | GG-25 | 1 |
| 3 | Cam Base | GG-25 | 1 |
| 4 | Side Plate | GG-25 + Graphite | 2 |
| 5 | Stopper Plate | CK45 | 1 |
| 6 | Positive Return R | CK45 | 1 |
| 7 | Wear Plate | CK45 | 2 |
| 8 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 9 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 1 |
| 10 | Wear Plate | CuZn25Al5 + Graphite - HB > 190 | 2 |
| 11 | Positive Return L | CK45 | 1 |
| 12 | Slide Plate | GG-25 + Graphite | 4 |
| 13 | Spring Stopper | CK45 | 2 |
| 14 | Key | CK45 | 1 |
| 15 | Elastomer Cap | Elastomer 92SH | 3 |
| 16 | Gas Spring Stopper Plate | CK45 | 4 |
| 17 | Gas Spring | - | 4 |
| 18 | Key (C14.25.3258350) - OPTION K | CK45 | 1 |
| 19 | Cam Base Fixing Screws M20x90 DIN 912 | - | 4 |
| 20 | Cam Driver Fixing Screws M16x55 DIN 912 | - | 4 |
| 21 | Key Fixing Screws M12x50 DIN 912 | - | 3 |



# Cam Units DLD
# Schieber DLD
# Unità a Camme DLD

OMCR®
STANDARD DIE COMPONENTS

INDEX

| OMCR CODE | Work Angle β | Slider Width (mm) | Closed Cam Height (mm) | Work Area W x H (mm) | Max Work Force with shoulder $10^6$ cycles (kN) Fs | Extraction Force (kN) Ef | Page number |
|---|---|---|---|---|---|---|---|
| **DLD052** | 0÷20° (5° steps) | 52 | 215÷255 | 52x75 | 40 | 0,53 | 966 |
| **DLD090** | 0÷15° (5° steps) | 90 | 220÷225 | 90x82 | 79 | 1,05 | 970 |

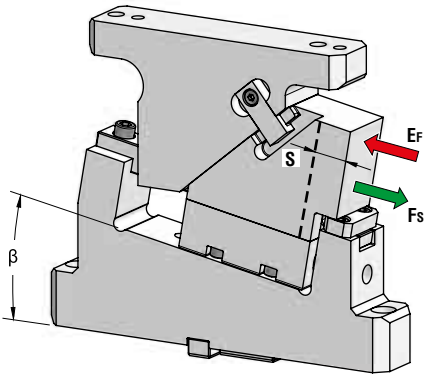






Dynamic technical staff and advanced design methods

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| DLD052.00.55 | 0° | 55 | 40 | 0,53 |
| DLD052.05.55 | 5° | 55 | 40 | 0,53 |
| DLD052.10.55 | 10° | 55 | 40 | 0,53 |
| DLD052.15.55 | 15° | 55 | 40 | 0,53 |
| DLD052.20.55 | 20° | 55 | 40 | 0,53 |

| OPTION CODE | |
|---|---|
| SL | 5 ÷ 65 (5mm steps) |
| SW | 100 mm |

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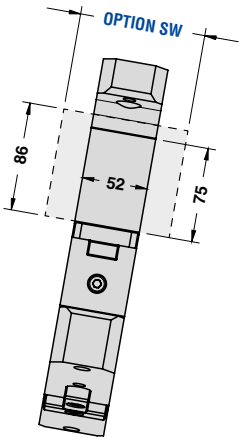
ORDER EXAMPLE

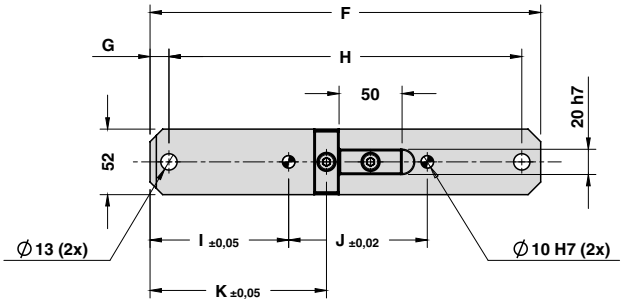
| | | | OPTION CODE | |
|---|---|---|---|---|
| Art. | Work Angle = 5° | Stroke = 55 | SL | SW |
| DLD052 | 05 | 55 | SL55 | SW100 |

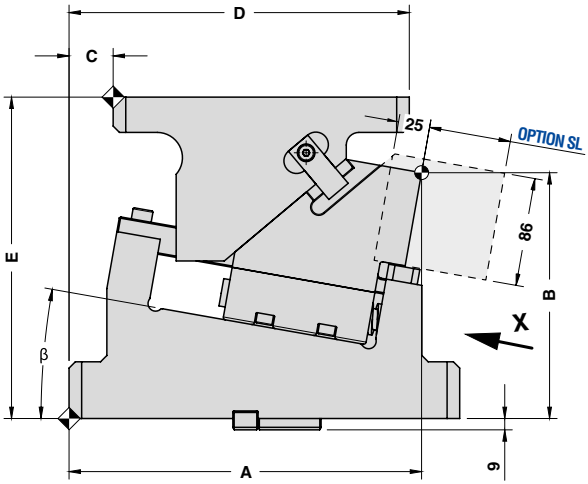
| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| DLD052.00.55 | 0° | 55 | 220 | 170 | 0 | 210 | 215 | 235 | 45 | 145 | 65 | 105 | 90 | 160 | 160 | 210 |
| DLD052.05.55 | 5° | 55 | 269,87 | 195,66 | 35 | 260 | 255 | 310 | 15 | 280 | 110 | 110 | 140 | 175 | 175 | 225 |
| DLD052.10.55 | 10° | 55 | 279,75 | 195,02 | 35 | 270 | 255 | 310 | 15 | 280 | 110 | 110 | 140 | 185 | 185 | 235 |
| DLD052.15.55 | 15° | 55 | 289,51 | 193,09 | 40 | 280 | 255 | 310 | 15 | 280 | 110 | 110 | 140 | 190 | 190 | 240 |
| DLD052.20.55 | 20° | 55 | 304,05 | 174,88 | 55 | 295 | 255 | 310 | 15 | 280 | 110 | 110 | 140 | 190 | 190 | 240 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

### X VIEW

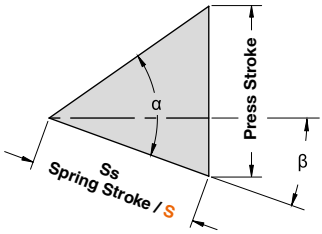


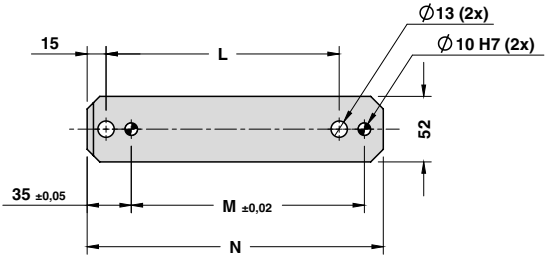



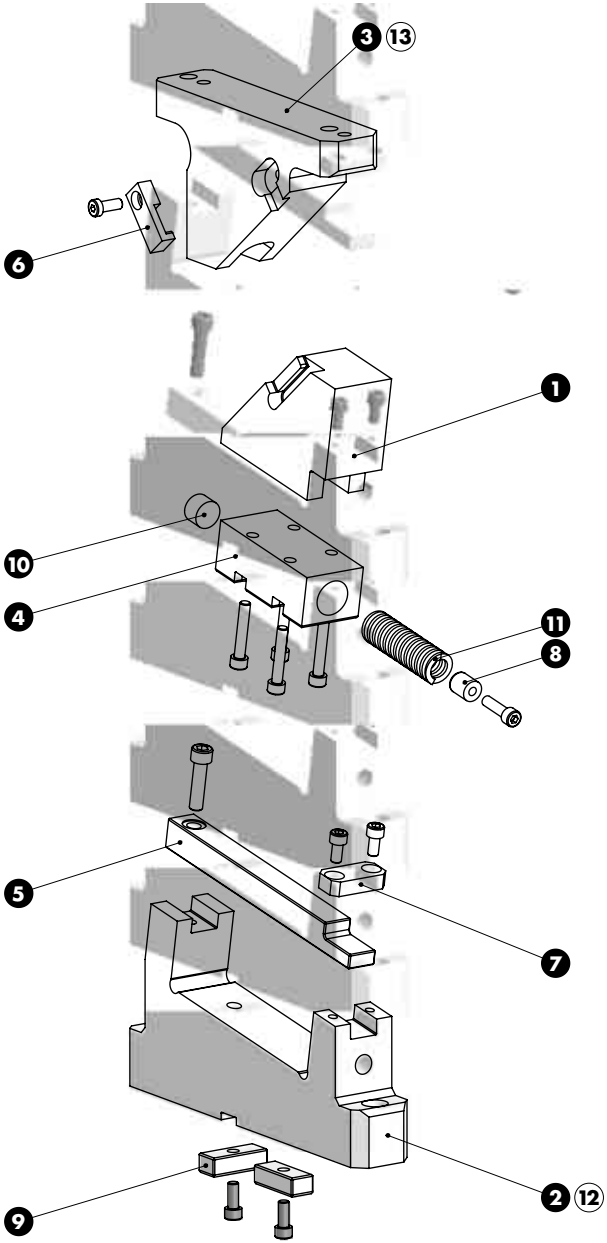

### CAM DIAGRAM

WEB



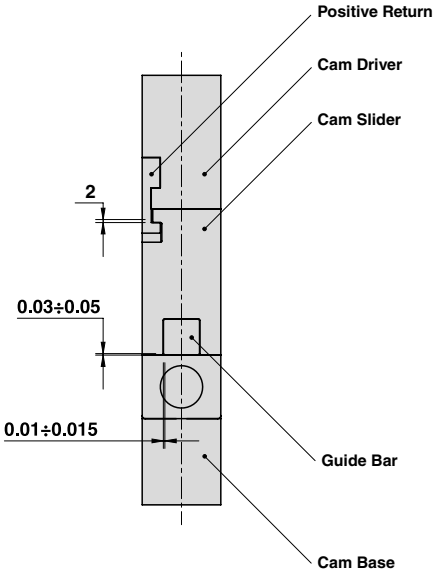

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 55 | 65,55 | 55 |
| 5° | 50° | 55 | 59,58 | 55 |
| 10° | 50° | 55 | 55,00 | 55 |
| 15° | 50° | 55 | 51,43 | 55 |
| 20° | 50° | 55 | 48,65 | 55 |




3
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## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

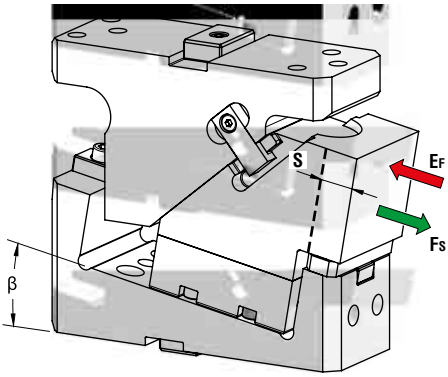
### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES






| PART LIST | | | |
|---|---|---|---|
| **Particular number** | **Description** | **Material** | **Quantity** |
| **1** | Cam Slider | GG-25 | 1 |
| **2** | Cam Base | GG-25 | 1 |
| **3** | Cam Driver | GG-25 + Graphite | 1 |
| **4** | Spring Guide Block | GG-25 + Graphite | 1 |
| **5** | Guide Bar | 42CrMo4 + Graphite | 2 |
| **6** | Positive Return | CK45 | 1 |
| **7** | Guide Bar Stopper Plate | CK45 | 1 |
| **8** | Spring Guide Pin | CK45 | 1 |
| **9** | Key | CK45 | 2 |
| **10** | Elastomer Cap | Elastomer 92SH | 1 |
| **11** | Spring | - | 1 |
| **12** | Cam Base Fixing Screws M12x45 DIN 912 | - | 2 |
| **13** | Cam Driver Fixing Screws M12x45 DIN 912 | - | 2 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO




| OMCR CODE | Work Angle | Stroke (mm) | Max Work Force with shoulder (kN) | Extraction Force (kN) |
|---|---|---|---|---|
| | | | | Ef |
| | β | S | Fs | Spring |
| DLD090.00.55 | 0° | 55 | 79 | 1,05 |
| DLD090.05.55 | 5° | 55 | 79 | 1,05 |
| DLD090.10.55 | 10° | 55 | 79 | 1,05 |
| DLD090.15.55 | 15° | 55 | 79 | 1,05 |

| OPTION CODE | |
|---|---|
| SW | 120 or 150 mm |
| N | Ø 12H7 |

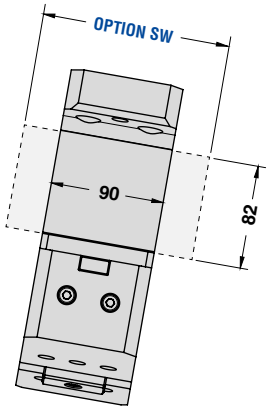
3D CATIA WEB | 3D CATIA WEB | WEB | P.682

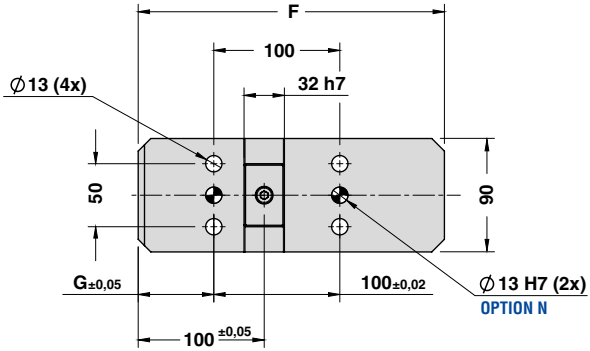
| | | OPTION CODE | |
|---|---|---|---|
| Art. | Work Angle = 5° | Stroke = 55 | SW | N |
| DLD090 | 05 | 55 | SW120 | N12 |

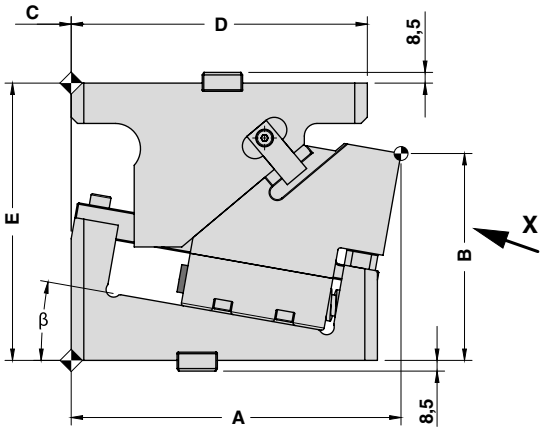
| OMCR CODE | Work Angle | Stroke (mm) | Overall Dimensions (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | β | S | A | B | C | D | E | F | G | L | M |
| DLD090.00.55 | 0° | 55 | 236 | 182 | 0 | 210 | 220 | 233 | 60 | 210 | 160 |
| DLD090.05.55 | 5° | 55 | 251,42 | 166,24 | 0 | 225 | 220 | 240 | 60 | 225 | 175 |
| DLD090.10.55 | 10° | 55 | 261,72 | 164,14 | 0 | 235 | 220 | 243 | 60 | 235 | 185 |
| DLD090.15.55 | 15° | 55 | 275,82 | 160,97 | 15 | 250 | 225 | 248 | 65 | 235 | 185 |

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

### X VIEW

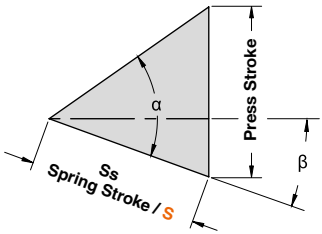


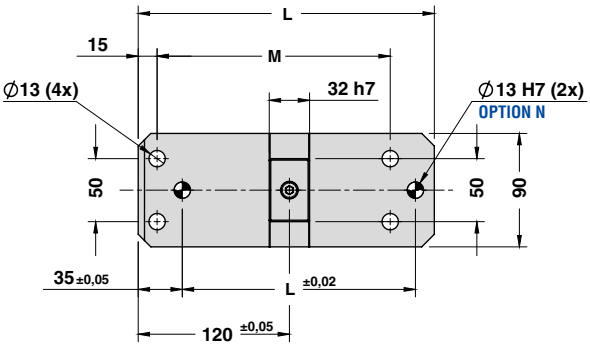



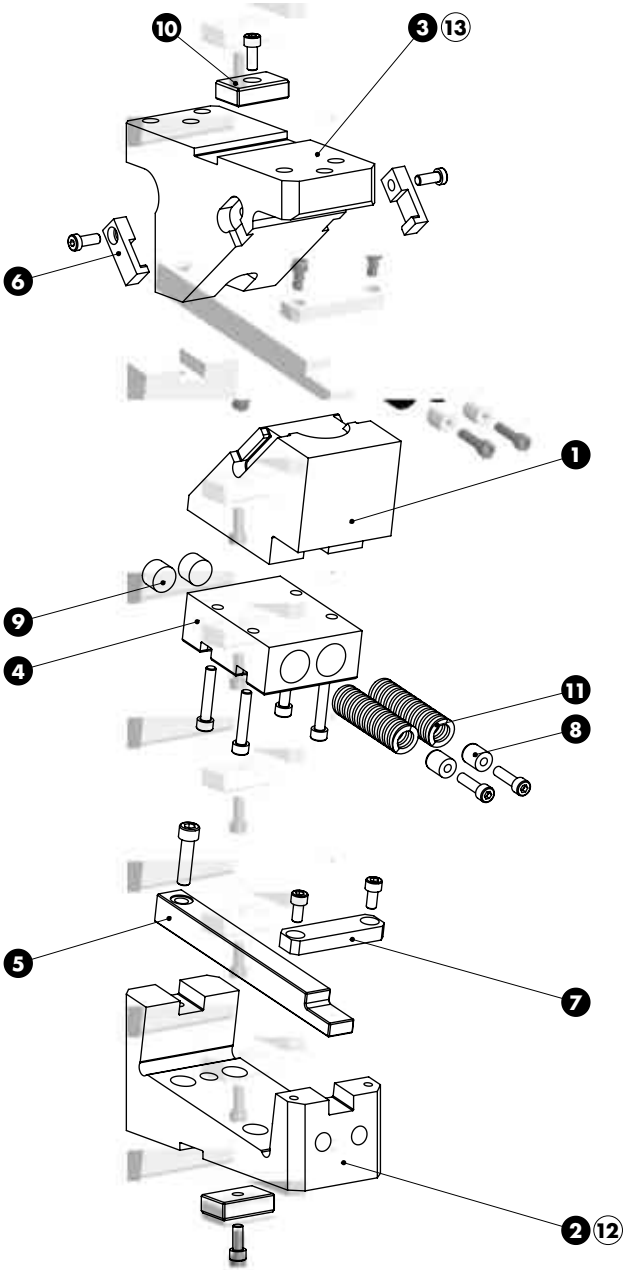

### CAM DIAGRAM

WEB



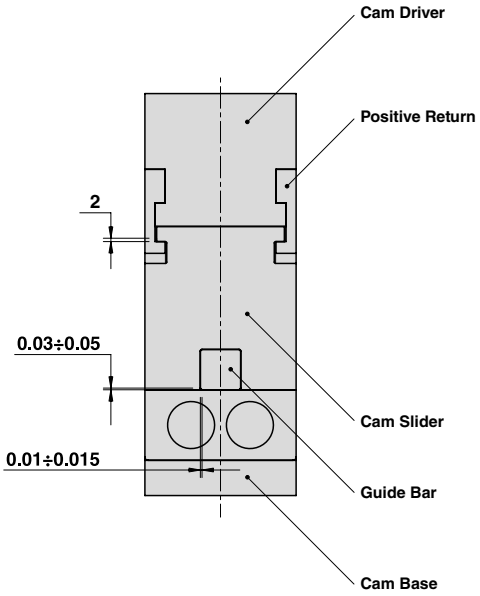

| Work Angle | Inner Angle | Slider Work Stroke (mm) | Press Stroke (mm) | Spring Stroke (mm) |
|---|---|---|---|---|
| β | α | S | Ps | Ss |
| 0° | 50° | 55,00 | 65,55 | 55 |
| 5° | 50° | 55,00 | 59,58 | 55 |
| 10° | 50° | 55,00 | 55,00 | 55 |
| 15° | 50° | 55,00 | 51,43 | 55 |




10
3
13
6
1
9
4
11
8
5
7
2
12

## DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

### SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES






| PART LIST | | | |
|---|---|---|---|
| Particular number | Description | Material | Quantity |
| 1 | Cam Slider | GG-25 | 1 |
| 2 | Cam Base | GG-25 | 1 |
| 3 | Cam Driver | GG-25 + Graphite | 1 |
| 4 | Spring Guide Block | GG-25 + Graphite | 1 |
| 5 | Guide Bar | 42CrMo4 + Graphite | 1 |
| 6 | Positive Return | CK45 | 2 |
| 7 | Guide Bar Stopper Plate | CK45 | 1 |
| 8 | Spring Guide Pin | CK45 | 2 |
| 9 | Key | CK45 | 2 |
| 10 | Elastomer Cap | Elastomer 92SH | 2 |
| 11 | Spring | - | 2 |
| 12 | Cam Base Fixing Screws M12x45 DIN 912 | - | 4 |
| 13 | Cam Driver Fixing Screws M12x45 DIN 912 | - | 4 |


Logica



# Lifting Elements
# Tragelemente
# Elementi di sollevamento

CE

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

# Lifting Elements
# Tragelemente
# Elementi di Sollevamento

(GB) Safety is the password of **Lifting Elements**: all components of this series are designed and manufactured within **OMCR**, rigorously respecting an established procedure in order to guarantee the conformity of the item. The range offered is capable of satisfying every need in moving dies of every dimension and weight, in total safety. The **EC mark**, required by the **Directive Machine 2006/42/EC** for all producers of "lifting accessories" foresees many documents including Use and Maintenance manual and Conformity Certification. Customers can find these on our website: **www.omcr.it**.

(D) Sicherheit lautet das Schlagwort der Linie **Tragelemente**: Alle Teile aus dieser Serie werden komplett bei **OMCR** nach den strengen Verfahren zur Gewährleistung der Konformität des Produkts hergestellt. Die Produktpalette erfüllt alle Anforderungen zum Transport von Werkzeugen in allen Größen und Gewichten in absoluter Sicherheit. Die **CE-Markierung**, die mit der **Maschinenrichtlinie 2006/42/CE** von allen Herstellern von Lastaufnahmemitteln verlangt wird, sieht eine Reihe von Unterlagen vor, darunter die Betriebs- und Instandhaltungsanleitung und die CE-Konformitätserklärung, die die Kunden von unserer Website **www.omcr.it** herunterladen können.

(I) Sicurezza è la parola d'ordine della **Linea Elementi di Sollevamento**: tutti i particolari di questa serie sono realizzati all'interno di **OMCR** rispettando rigorosamente le procedure stabilite per garantire la conformità del prodotto. La gamma proposta è in grado di soddisfare tutte le esigenze di movimentazione stampi di ogni dimensione e peso, nella più totale sicurezza. La marcatura **CE**, richiesta dalla **Direttiva Macchine 2006/42/CE** a tutti i costruttori di "accessori di sollevamento" prevede una serie di documenti, fra cui il libretto di uso e manutenzione e il certificato di conformità, a disposizione dei clienti sul nostro sito: **www.omcr.it**.











OMCR

EC CONFORMITY DECLARATION

# Lifting Elements

# CE cónformity















## WARNING - ANMERKUNG - AVVERTENZA

GB For safety reasons a die should be lifted with only two lifting elements.

D Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragwagen das gesamte Werkzeuggewicht tragen müssen.

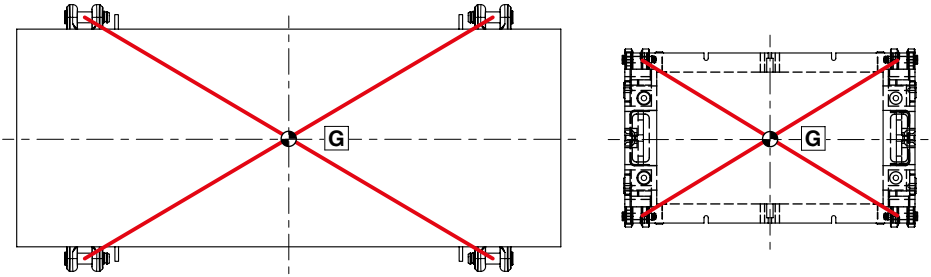
I Per ragioni di sicurezza considerare sempre che il peso dello stampo deve essere sopportato da due soli elementi di sollevamento.

## WARNING - ANMERKUNG - AVVERTENZA

GB Make sure the die load centre is as symmetrical to the lifting fixtures as possible.

D Bei der Konstruktion sicherstellen, dass der Schwerpunkt des Werkzeugs so symmetrisch wie möglich zu den Tragelementen ist.

I In fase di progetto verificare che il baricentro dello stampo sia il più possibile simmetrico rispetto agli elementi di sollevamento.



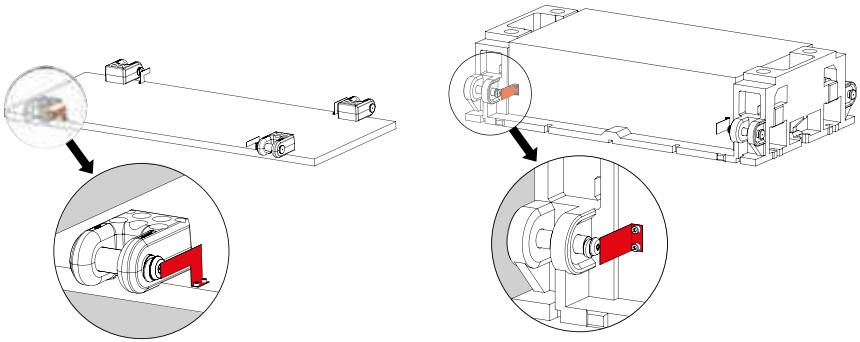

Pic.01

## WARNING - ANMERKUNG - AVVERTENZA

GB It is recommended to install a stop to prohibit an incorrect installation of pins.

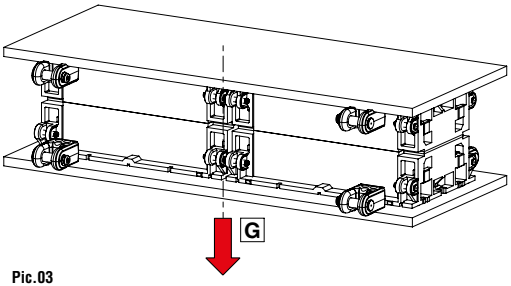
D Wird die Verwendung von Sperren empfohlen, um eine nicht korrekte Einbringung der Tragbolzen zu verhindern

I Si consiglia l'uso di barriere per impedire l'inserimento scorretto dei perni.



Pic.02

## DIMENSIONING EXAMPLE - DIMENSIONIERUNGSBEISPIEL - ESEMPIO DI DIMENSIONAMENTO

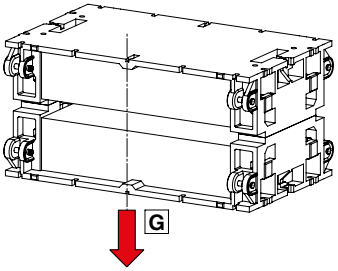



Pic.03

Die weight "**G**" = 36.000 kg
36.000/2 = 18.000 kg
**Use lifting bracket B01.20.18000**

Gewicht Werkzeug "**G**" = 36.000 kg
36.000/2 = 18.000 kg
**Verwendung tragwange B01.20.18000**

Peso stampo "**G**" = 36.000 kg
36.000/2 = 18.000 kg
**Utilizzare staffa B01.20.18000**

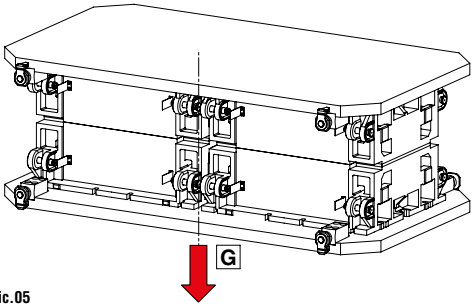



Pic.04

Die weight "**G**" = 25.000 kg
25.000/2 = 12.500 kg
**Use pin B02.10.063**

Gewicht Werkzeug "**G**" = 25.000 kg
25.000/2 = 12.500 kg
**Tragbolzen B02.10.063**

Peso stampo "**G**" = 25.000 kg
25.000/2 = 12.500 kg
**Utilizzare perno B02.10.063**

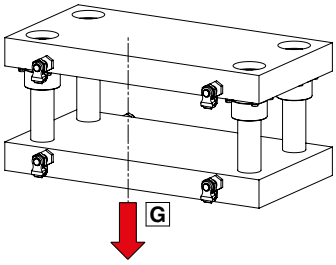



Pic.05

Die weight "**G**" = 16.000 kg
16.000/2 = 8.000 kg
**Use lifting bracket B01.11.063**

Gewicht Werkzeug "**G**" = 16.000 kg
16.000/2 = 8.000 kg
**Verwendung tragwange B01.11.063**

Peso stampo "**G**" = 16.000 kg
16.000/2 = 8.000 kg
**Utilizzare staffa B01.11.063**



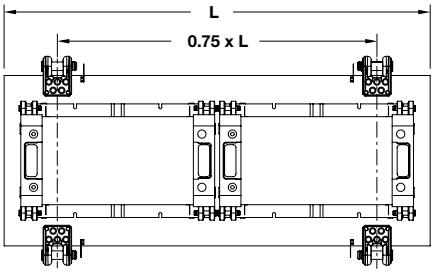

Pic.06

Die weight "**G**" = 3.000 kg
3.000/2 = 1.500 kg
**Use lifting pin B02.06.032**

Gewicht Werkzeug "**G**" = 3.000 kg
3.000/2 = 1.500 kg
**Verwendung Tragschraube B02.06.032**

Peso stampo "**G**" = 3.000 kg
3.000/2 = 1.500 kg
**Utilizzare perno B02.06.032**

## APPLICATIONS - ANWENDUNGEN - APPLICAZIONI

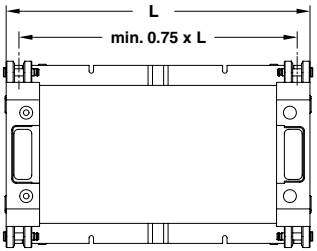



Pic.07

GB The **lifting brackets** should be positioned as shown in **Pic. 07**.

D Die **Tragwangen** müssen gemäß der Darstellung auf **Pic. 07** positioniert werden.

I Le **staffe** devono essere posizionate secondo lo schema rappresentato in **Pic. 07.**

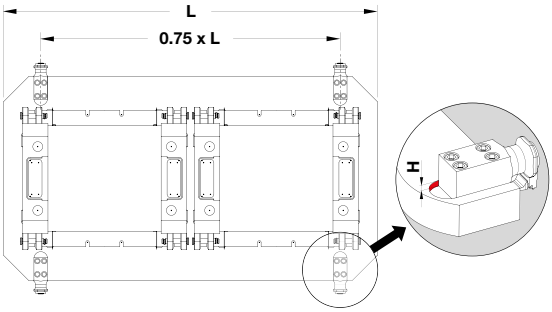



Pic.08

GB The **lifting pin** should be positioned as shown in **Pic. 08**.

D Die **Tragbolzen** müssen gemäß der Darstellung auf **Pic. 08** positioniert werden.

I I **perni** devono essere posizionati secondo lo schema rappresentato in **Pic. 08.**

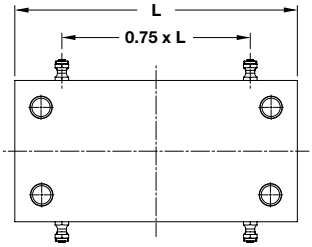



Pic.09

GB The **lifting brackets** should be positioned as shown in **Pic. 09** into the specific fixing-seats.

D Die **Tragzapfens** müssen gemäß der Darstellung auf **Pic. 09** positioniert werden.

I Le **staffe** devono essere posizionate secondo lo schema rappresentato in **Pic. 09** all'interno delle sedi d'incastro dedicate.




Pic.10

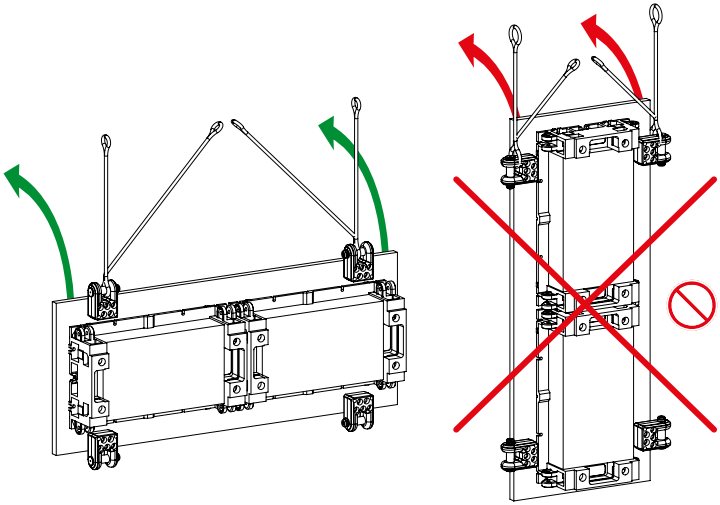
GB The **lifting pins** should be positioned as shown in **Pic. 10**.

D Die **Tragschrauben** müssen gemäß der Darstellung auf **Pic. 10** positioniert werden.

I I **perni** devono essere posizionati secondo lo schema rappresentato in **Pic. 10.**

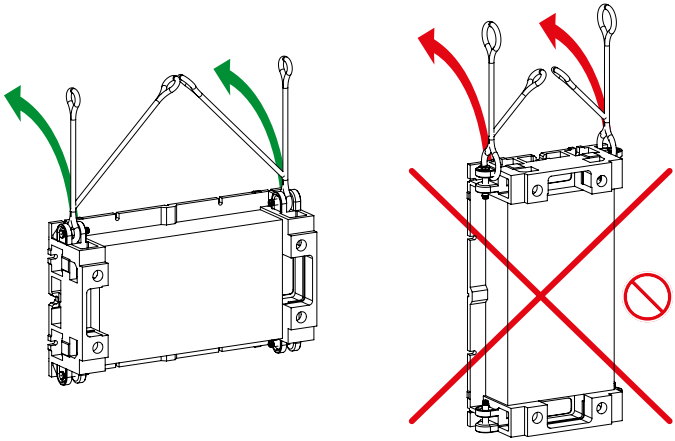
## TURNOVER - WENDEN - RIBALTAMENTO

GB The die turnover is allowed only parallel with lifting pin axis.
D Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragbolzen erfolgen.
I Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse del perno di sollevamento.



Pic.11

GB The die turnover is allowed only parallel with lifting pin axis.
D Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragbolzen erfolgen.
I Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse del perno di sollevamento.



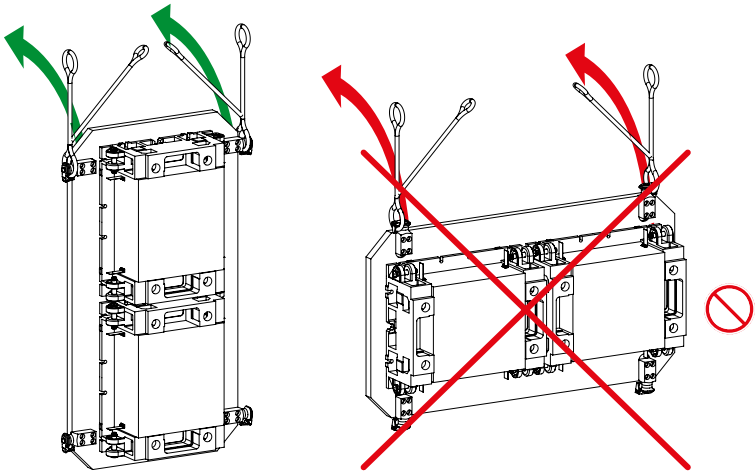
Pic.12

## TURNOVER - WENDEN - RIBALTAMENTO

GB The die turnover is allowed only parallel with lifting bracket axis.

D Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragzapfen erfolgen.

I Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse della staffa di sollevamento.

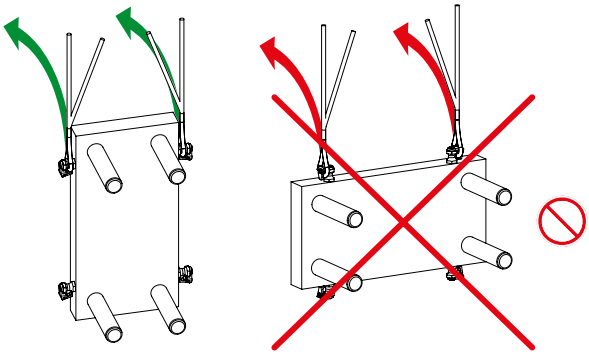


Pic.13

GB The die turnover is allowed only parallel with lifting pin axis.

D Das Wenden des Werkzeugs kann nur parallel zu den Achsen des Tragschraube erfolgen.

I Il ribaltamento dello stampo può essere eseguito solo parallelamente all'asse del perno di sollevamento.



Pic.14

## INFORMATION - INFORMATIONEN - INFORMAZIONI

GB For more informations see the use and maintenance manuals available on: **www.omcr.it**.

D Weitere Informationen finden Sie in den Gebrauchs- und Instandhaltungsanleitungen auf unserer Internetseite **www.omcr.it**.

I Per maggiori informazioni consultare i manuali di uso e manutenzione disponibili sul nostro sito: **www.omcr.it**.



| B01.10 | B01.11 | B01.12 | B01.15 | B01.16 |
|---|---|---|---|---|
|  |  |  |  |  |
| VDI 3366 | | BMW | FCA | RENAULT |
| Lifting bracket<br>Tragzapfen<br>Staffa di sollevamento | Lifting bracket with rope safety stop<br>Tragzapfen mit Seilsicherung<br>Staffa di sollevamento con sicurezza fermafune | Lifting bracket with rope safety stop<br>Tragzapfen mit Seilsicherung<br>Staffa di sollevamento con sicurezza fermafune | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno |
| 988 | 989 | 990 | 991 | 992 |

| B01.18 | B01.20 | B01.20 | B01.24 | B01.25 |
|---|---|---|---|---|
|  |  |  |  |  |
| RENAULT | BMW | BMW | VW/AUDI | VDI 3366 |
| Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno | Lifting bracket with pin<br>Tragwange mit Tragbolzen<br>Staffa di sollevamento completa di perno |
| 993 | 994 | 995 | 996 | 997 |

| B02.05 | B02.06 | B02.10 | B02.11 | B02.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| VDI 3366 | | VDI 3366 | VW | MERCEDES-BENZ |
| Lifting pin<br>Tragschraube<br>Perno di sollevamento | Lifting pin with rope safety stop<br>Tragschraube mit Seilsicherung<br>Perno di sollevamento con sicurezza fermafune | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento |
| 998 | 999 | 1000 | 1001 | 1002 |

| B02.15 | B02.16 | B02.22 | B02.23 | B02.26 |
|---|---|---|---|---|
|  |  |  |  |  |
| FCA | FCA | FORD | NISSAN | OPEL - GM |
| Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento |
| 1003 | 1004 | 1005 | 1006 | 1007 |

| B02.30 | B02.35 | B02.40 | B02.42 | B02.44 |
|---|---|---|---|---|
|  |  |  |  |  |
| PSA - RENAULT | VOLVO | BMW | FCA | VW/AUDI |
| Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento | Lifting pin<br>Tragbolzen<br>Perno di sollevamento |
| 1008 | 1009 | 1010 | 1011 | 1012 |

| B03.10 | B03.15 | B03.20 | B08.11 | B08.20 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | | VDI - BAK | FCA - FORD |
| Rotating eyebolt H.T.<br>Ringschraube H.T.<br>Golfare girevole H.T | Rotating eyebolt<br>with clamp<br>Lastbock<br>Golfare girevole<br>con staffa | Rotating eyebolt<br>with ring<br>Wirbelbock<br>Golfare girevole<br>con anello | Bush for lifting pin<br>Buchse für Tragbolzen<br>Boccola per perno di<br>sollevamento | Threaded Steel Insert<br>Gewindeeinsatz für Guss<br>Inserto filettato per fusione |
| 1014 | 1016 | 1018 | 1020 | 1021 |

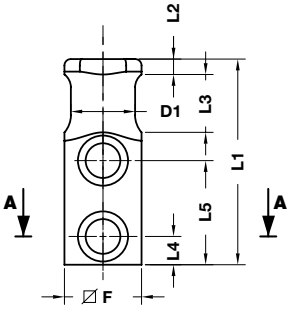
| B09.10 |
|---|
|  |
| |
| Rope stop safety<br>opening key<br>Schlüssel für Seilsicherung<br>Chiave per apertura<br>sicurezza fermafune |
| 1022 |

# LIFTING BRACKET VDI 3366
# TRAGZAPFEN VDI 3366
# STAFFA DI SOLLEVAMENTO VDI 3366

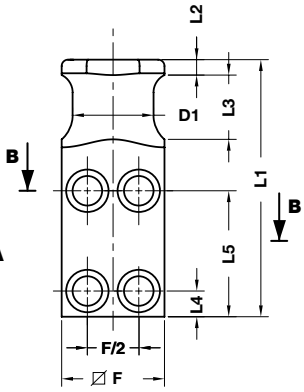


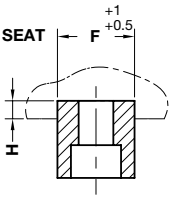
STOCK | 3D WEB | CE WEB

**FORM A**

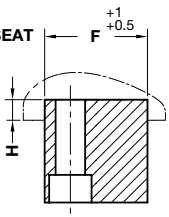



**FORM B**




**SECTION A-A**




**SECTION B-B**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)

Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)

Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

**Material:** CK45 - 700÷800 N/mm²

Screws not included

ORDER EXAMPLE

| Art. | D1=100 |
|---|---|
| B01.10. | 100 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | L1 | L2 | L3 | L4 | L5 | F | H | FORM | Screws DIN 912 - 8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.10.016** | 320 | 640 | 16 | 80 | 6 | 20 | 10 | 44 | 20 | 6 | A | M8x25 |
| **B01.10.020** | 630 | 1260 | 20 | 90 | 8 | 25 | 10 | 47 | 25 | 8 | A | M10x30 |
| **B01.10.025** | 1250 | 2500 | 25 | 100 | 8 | 30 | 12 | 50 | 35 | 10 | A | M12x40 |
| **B01.10.032** | 2000 | 4000 | 32 | 120 | 10 | 32 | 16 | 62 | 40 | 10 | A | M16x45 |
| **B01.10.040** | 3200 | 6400 | 40 | 140 | 10 | 40 | 18 | 72 | 50 | 12 | A | M20x60 |
| **B01.10.050** | 5000 | 10000 | 50 | 160 | 12 | 45 | 22 | 81 | 60 | 14 | A | M24x70 |
| **B01.10.063** | 8000 | 16000 | 63 | 200 | 12 | 50 | 20 | 98 | 80 | 16 | B | M20x90 |
| **B01.10.080** | 12500 | 25000 | 80 | 250 | 15 | 65 | 25 | 125 | 100 | 18 | B | M24x110 |
| **B01.10.100** | 20000 | 40000 | 100 | 300 | 15 | 80 | 30 | 155 | 120 | 20 | B | M30x130 |

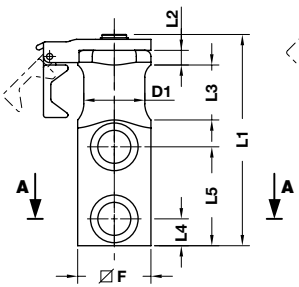
# LIFTING BRACKET WITH ROPE SAFETY STOP
# TRAGZAPFEN MIT SEILSICHERUNG
# STAFFA DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE

**Patent-Nr.: TO2003A000468**

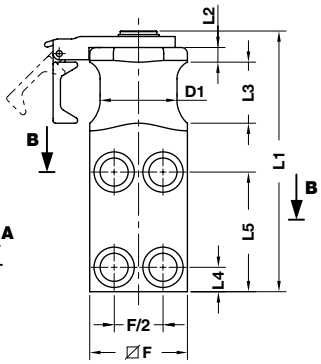


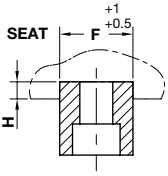
STOCK | 3D WEB | CE WEB

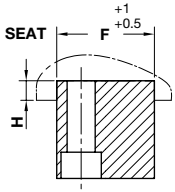
**FORM A**



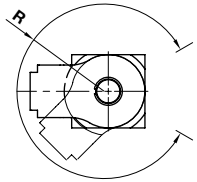

**FORM B**



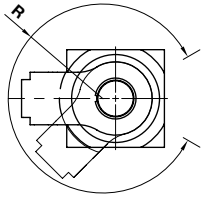



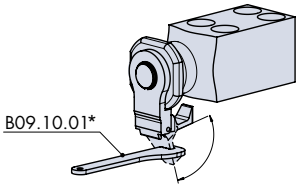




**SECTION A-A**




**SECTION B-B**




*To open rope stop safety use key B09.10.01

| ORDER EXAMPLE | Art. | D1=50 |
|---|---|---|
| | B01.11. | 50 |

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)
Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)
Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

**Material:** CK45 - 700÷800 N/mm²

Screws not included

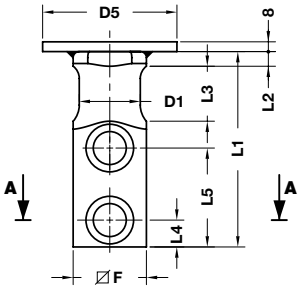
| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | L1 | L2 | L3 | L4 | L5 | F | H | R | FORM | Screws DIN 912 - 8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.11.20** | 630 | 1260 | 20 | 99 | 8 | 25 | 10 | 47 | 25 | 8 | 38 | A | M10x30 |
| **B01.11.25** | 1250 | 2500 | 25 | 112,5 | 8 | 30 | 12 | 50 | 35 | 10 | 42 | A | M12x40 |
| **B01.11.32** | 2000 | 4000 | 32 | 132,5 | 10 | 32 | 16 | 62 | 40 | 10 | 52 | A | M16x45 |
| **B01.11.40** | 3200 | 6400 | 40 | 152,5 | 10 | 40 | 18 | 72 | 50 | 12 | 60 | A | M20x60 |
| **B01.11.50** | 5000 | 10000 | 50 | 173 | 12 | 45 | 22 | 81 | 60 | 14 | 66 | A | M24x70 |
| **B01.11.63** | 8000 | 16000 | 63 | 213,5 | 12 | 50 | 20 | 98 | 80 | 16 | 80 | B | M20x90 |

# LIFTING BRACKET WITH ROPE SAFETY STOP
# TRAGZAPFEN MIT SEILSICHERUNG
# STAFFA DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE

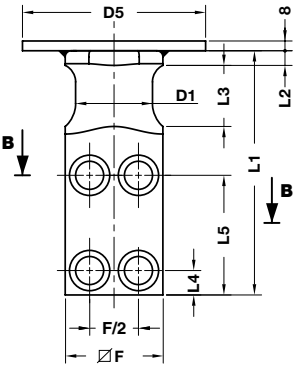


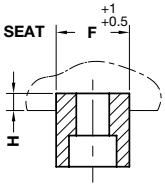
STOCK | 3D WEB | CE WEB

**FORM A**

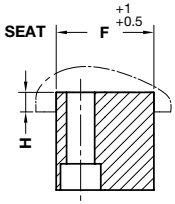



**FORM B**




**SECTION A-A**




**SECTION B-B**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)

Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)

Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

**Material:** CK45 - 700÷800 N/mm²

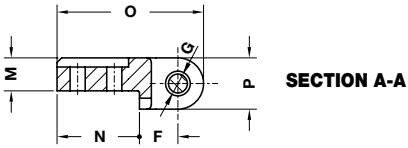
Screws not included

ORDER EXAMPLE

| Art. | D1=80 |
|---|---|
| B01.12. | 080 |

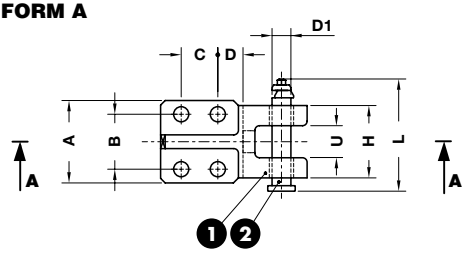
| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D5 | L1 | L2 | L3 | L4 | L5 | F | H | FORM | Screws DIN 912 - 8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B01.12.016 | 320 | 640 | 16 | 60 | 80 | 6 | 20 | 10 | 44 | 20 | 6 | A | M8x25 |
| B01.12.020 | 630 | 1260 | 20 | 70 | 90 | 8 | 25 | 10 | 47 | 25 | 8 | A | M10x30 |
| B01.12.025 | 1250 | 2500 | 25 | 70 | 100 | 8 | 30 | 12 | 50 | 35 | 10 | A | M12x40 |
| B01.12.032 | 2000 | 4000 | 32 | 110 | 120 | 10 | 32 | 16 | 62 | 40 | 10 | A | M16x45 |
| B01.12.040 | 3200 | 6400 | 40 | 110 | 140 | 10 | 40 | 18 | 72 | 50 | 12 | A | M20x60 |
| B01.12.050 | 5000 | 10000 | 50 | 150 | 160 | 12 | 45 | 22 | 81 | 60 | 14 | A | M24x70 |
| B01.12.063 | 8000 | 16000 | 63 | 150 | 200 | 12 | 50 | 20 | 98 | 80 | 16 | B | M20x90 |
| B01.12.080 | 12500 | 25000 | 80 | 150 | 250 | 15 | 65 | 25 | 125 | 100 | 18 | B | M24x110 |
| B01.12.100 | 20000 | 40000 | 100 | 150 | 300 | 15 | 80 | 30 | 155 | 120 | 20 | B | M30x130 |

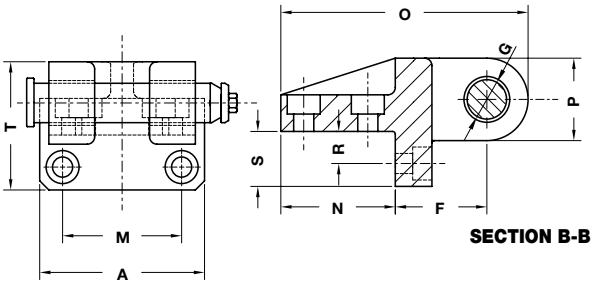
# FCA LIFTING BRACKET WITH PIN
# TRAGWANGE MIT TRAGBOLZEN NACH FCA NORM
# STAFFA DI SOLLEVAMENTO TIPO FCA COMPLETA DI PERNO




SECTION A-A

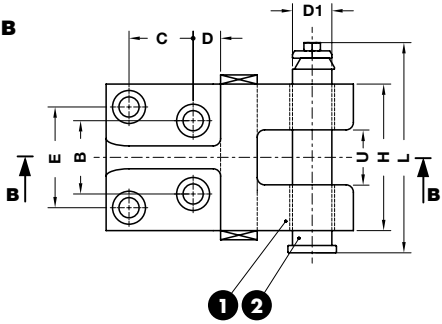
FORM A




SECTION B-B

FORM B






STOCK | ... | 3D WEB | CE WEB

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)
Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)
Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** CK45 800÷1000 N/mm²
2. B02.42.

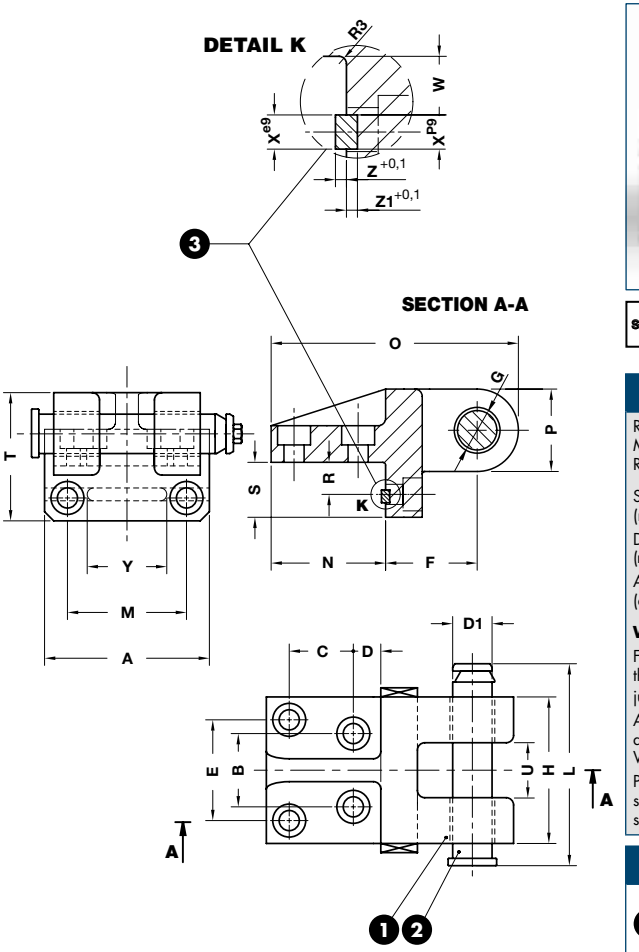
Screws not included

ORDER EXAMPLE

| Art. | Max load |
|---|---|
| B01.15. | 7000 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | A | B | C | D | D1 | E | F | G | H | L | M | N | O | P | R | S | T | U | FORM | Screws DIN 912 - 8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.15.0600** | 600 | 1200 | 80 | 50 | 40 | 22,5 | 15,6 | - | 39 | 16 | 70 | 102,5 | 32 | 80 | 145 | 52 | - | - | - | 30 | A | M12x45 |
| **B01.15.1000** | 1000 | 2000 | 90 | 60 | 40 | 27,5 | 20,6 | - | 42 | 21 | 79 | 113,5 | 36 | 90 | 160 | 56 | - | - | - | 35 | A | M16x55 |
| **B01.15.2000** | 2000 | 4000 | 100 | 65 | 65 | 32,5 | 25,6 | - | 60 | 26 | 90 | 128,5 | 50 | 120 | 215 | 70 | - | - | - | 40 | A | M20x80 |
| **B01.15.4000** | 4000 | 8000 | 135 | 56 | 60 | 20 | 33 | 84 | 85 | 34 | 125 | 166,5 | 96 | 100 | 221 | 72 | 30 | 50 | 111 | 55 | B | M16x45 |
| **B01.15.7000** | 7000 | 14000 | 180 | 80 | 70 | 30 | 43 | 110 | 100 | 44 | 160 | 210,5 | 130 | 125 | 270 | 90 | 35 | 60 | 140 | 60 | B | M20x60 |

# RENAULT LIFTING BRACKET WITH PIN
# TRAGWANGE MIT TRAGBOLZEN NACH RENAULT NORM
# STAFFA DI SOLLEVAMENTO TIPO RENAULT COMPLETA DI PERNO






STOCK | ... | WEB | WEB

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)

Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)

Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** CK45 800÷1000 N/mm²
2. B02.30.
3. KEY DIN 6885

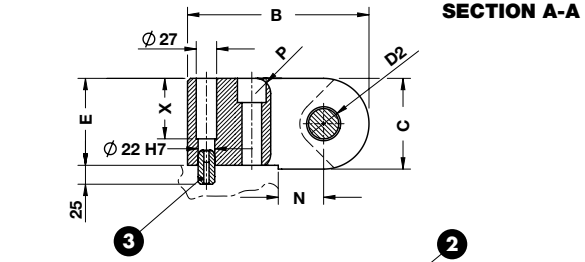
Screws not included

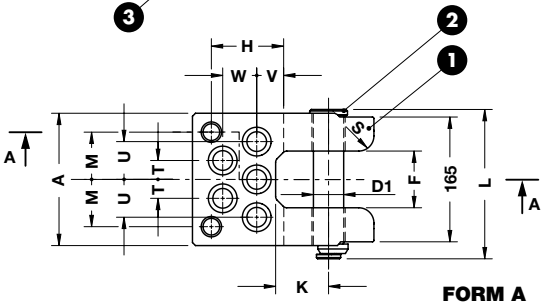
ORDER EXAMPLE

| Art. | Max load |
|---|---|
| B01.16. | 6300 |

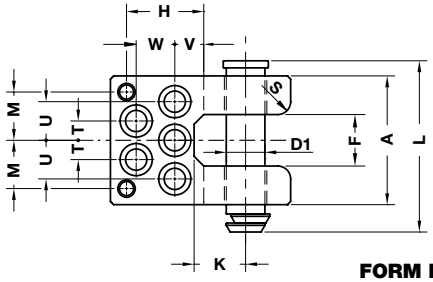
| OMCR CODE | Max load (kg) | Max die weight (kg) | A | B | C | D | D1 | E | F | G | H | L | M | N | O | P | R | S | T | U | W | X | Y | Z | Z1 | Screws DIN 912 -8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.16.4000** | 4000 | 8000 | 135 | 56 | 60 | 20 | 32 | 84 | 85 | 33 | 125 | 154 | 96 | 100 | 221 | 72 | 30 | 50 | 111 | 55 | 24 | 14 | 63 | 4,5 | 4,5 | M16x45 |
| **B01.16.6300** | 6300 | 12600 | 180 | 80 | 70 | 30 | 40 | 110 | 100 | 41 | 160 | 197,5 | 130 | 125 | 270 | 90 | 35 | 60 | 140 | 60 | 27 | 16 | 100 | 5 | 5 | M20x60 |

# RENAULT LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN NACH RENAULT NORM
# STAFFA DI SOLLEVAMENTO TIPO RENAULT COMPLETA DI PERNO E CENTRAGGI




FORM A




FORM B



STOCK | ... | 3D WEB | CE WEB

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)
Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)
Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. B02.30.
3. C11.20.2245 (2x)

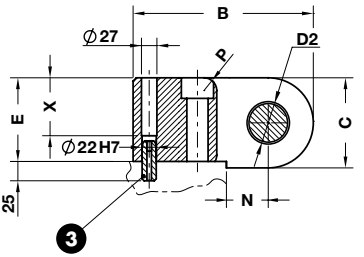
Screws not included



| ORDER EXAMPLE | Art. | Max load |
|---|---|---|
| | B01.18. | 12500 |

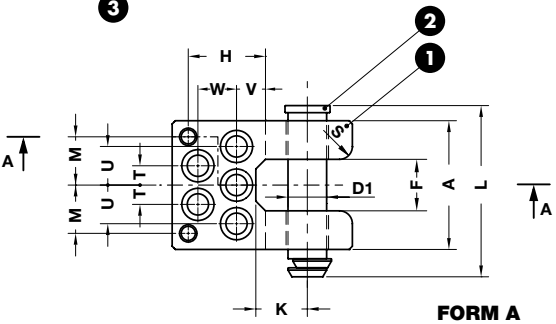
| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | A | B | C | E | F | H | K | L | M | N | P | S | T | U | V | W | X | FORM | Screws DIN 912 -8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.18.08000** | 8000 | 16000 | 40 | 42 | 175 | 240 | 120 | 115 | 75 | 95 | 70 | 197,5 | 62,5 | 60 | 20 | 24 | 25 | 50 | 35 | 45 | 80 | A | M24x120 |
| **B01.18.12500** | 12500 | 25000 | 50 | 52 | 200 | 300 | 140 | 130 | 80 | 145 | 80 | 247,5 | 77,5 | 65 | 20 | 30 | 35 | 65 | 60 | 65 | 95 | B | M36x160 |

# BMW LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN NACH BMW NORM
# STAFFA DI SOLLEVAMENTO TIPO BMW COMPLETA DI PERNO E CENTRAGGI

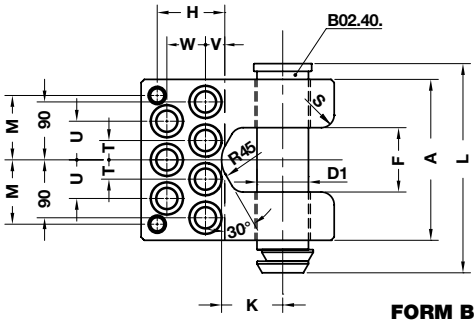



**SECTION A-A**






**FORM A**




**FORM B**

STOCK | ... | WEB | WEB

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)

Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)

Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. B02.40.
3. C11.20.2245 (2x)

Screws not included

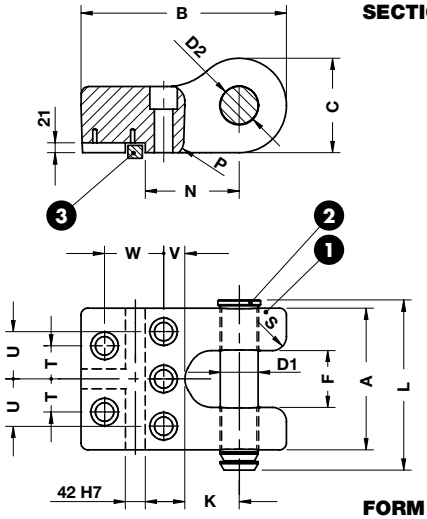
ORDER EXAMPLE

| Art. | Max load |
|---|---|
| B01.20. | 18000 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | A | B | C | E | F | H | K | L | M | N | P | S | T | U | V | W | X | FORM | Screws DIN 912 -8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.20.03200** | 3200 | 6400 | 30 | 32 | 126 | 185 | 80 | 75 | 50 | 85 | 50 | 158 | 45 | 40 | 12 | 16 | 20 | 40 | 30 | 35 | 40 | A | M16x80 |
| **B01.20.05000** | 5000 | 10000 | 40 | 42 | 150 | 210 | 100 | 95 | 60 | 87 | 55 | 187 | 52 | 50 | 12 | 20 | 22,5 | 45 | 25 | 40 | 60 | A | M20x100 |
| **B01.20.08000** | 8000 | 16000 | 50 | 52 | 175 | 240 | 120 | 115 | 75 | 95 | 70 | 220 | 62,5 | 60 | 16 | 24 | 25 | 50 | 35 | 45 | 80 | A | M24x120 |
| **B01.20.12500A** | 12500 | 25000 | 60 | 62 | 200 | 300 | 140 | 130 | 80 | 145 | 80 | 246 | 77,5 | 65 | 20 | 30 | 35 | 65 | 60 | 65 | 95 | A | M36x160 |
| **B01.20.18000** | 18000 | 36000 | 80 | 82 | 250 | 300 | 160 | 150 | 100 | 105 | 95 | 305 | 100 | 90 | 20 | 30 | 30 | 60 | 30 | 60 | 115 | B | M30x160 |

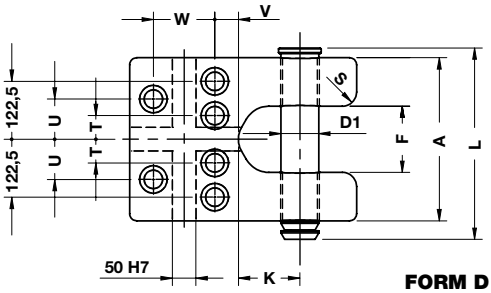
# BMW LIFTING BRACKET WITH PIN AND KEYS
# TRAGWANGE MIT TRAGBOLZEN UND PASSFEDER NACH BMW NORM
# STAFFA DI SOLLEVAMENTO TIPO BMW COMPLETA DI PERNO E CHIAVETTE






**SECTION A-A**

**FORM C**




**FORM D**

STOCK ... 3D WEB CE WEB

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)

Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)

Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. B02.40.
3. B01.20.25000: C14.20.42125 (3x)
   B01.20.31500: C14.20.50135 (2x)
   C14.20.50220 (1x)

Screws not included

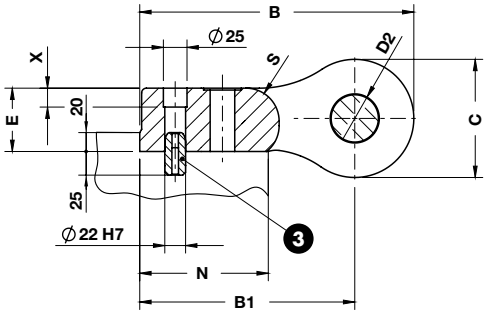
ORDER EXAMPLE

| Art. | Max load |
|---|---|
| B01.20. | 31500 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | A | B | C | E | F | K | L | N | P | S | T | U | V | W | FORM | Screws DIN 912-8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.20.25000** | 25000 | 50000 | 80 | 82 | 300 | 435 | 200 | 140 | 120 | 115 | 360 | 199 | 30 | 30 | 70 | 100 | 45 | 125 | C | M36x160 (5x) |
| **B01.20.31500** | 31500 | 63000 | 80 | 82 | 345 | 480 | 240 | 170 | 135 | 130 | 405 | 220 | 30 | 30 | 50 | 85 | 50 | 130 | D | M36x200 (6x) |

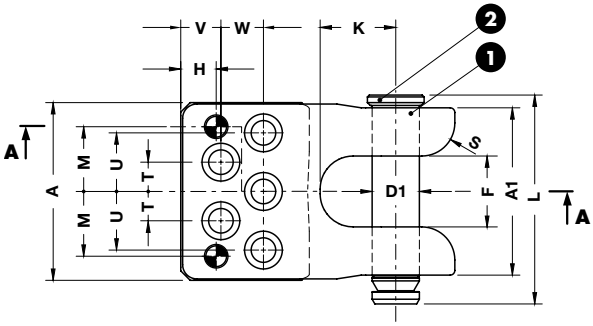
# VW/AUDI LIFTING BRACKET WITH PIN AND LOCATING PINS
# TRAGWANGE MIT TRAGBOLZEN UND ZENTRIERBOLZEN NACH VW/AUDI NORM
# STAFFA DI SOLLEVAMENTO TIPO VW/AUDI COMPLETA DI PERNO E CENTRAGGI

**SECTION A-A**

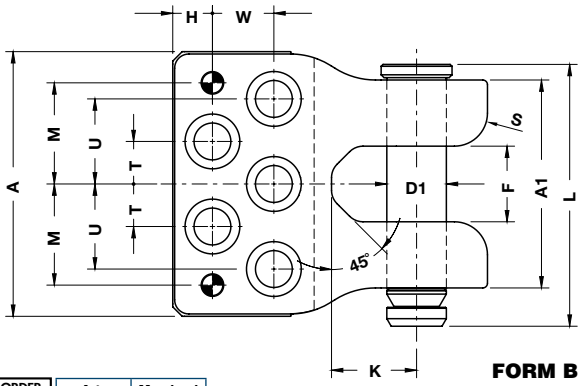





STOCK · WEB · WEB




**FORM A**




**FORM B**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)
Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)
Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. B02.44.
3. C11.20.2245

Screws not included

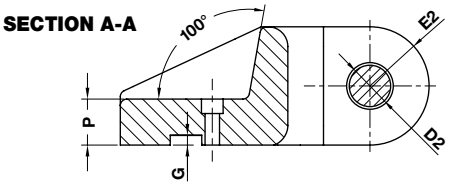
ORDER EXAMPLE

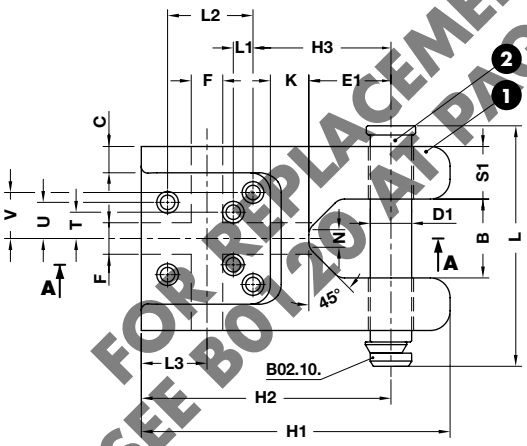
| Art. | Max load |
|---|---|
| B01.24. | 12500 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | A | A1 | B | B1 | C | E | F | H | K | L | M | N | S | T | U | V | W | X | FORM | Screws DIN 912-8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.24.08000** | 8000 | 16000 | 50 | 52 | 188 | 177 | 290 | 227,5 | 125 | 67 | 75 | 37,5 | 80 | 221 | 68,5 | 135 | 35 | 31 | 62 | 42,5 | 45 | 20 | A | M24x100 |
| **B01.24.12500** | 12500 | 25000 | 63 | 65 | 280 | 220 | 333 | 258 | 150 | 91 | 80 | 42 | 90 | 277 | 107 | 150 | 35 | 45 | 90 | - | 65 | 46 | B | M36x120 |

# VDI 3366 LIFTING BRACKET WITH PIN
# TRAGWANGE MIT TRAGBOLZEN NACH VDI 3366 NORM
# STAFFA DI SOLLEVAMENTO TIPO VDI 3366 COMPLETA DI PERNO






FOR REPLACEMENT ONLY
SEE B01.20 AT PAGE 994-995

WEB WEB

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

Screw the brackets on steel
(minimum quality Fe510 - S355)
Die Tragwangen auf Stahl
(mit Mindestqualität Fe510 - S355 verschrauben)
Avvitare le staffe su acciaio
(qualità minima Fe510 - S355)

**WARNING - ACHTUNG - ATTENZIONE:**

For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting brackets.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragzapfens das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 sole staffe.

## Notes

1. **Material:** St52
2. B02.10.

Screws not included

ORDER EXAMPLE

| Art. | Max load |
|---|---|
| B01.25. | 31500 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | B | C | E1 | E2 | F | G | H1 | H2 | H3 | N | K | L | L1 | L2 | L3 | P | S1 | T | U | V | Screws DIN 912 -8.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B01.25.03200** | 3200 | 6400 | 32 | 34 | 60 | 20 | 63 | 40 | 25 | 7 | 260 | 220 | 125 | 28 | 37 | 175 | 30 | 85 | 45 | 40 | 40 | 25 | 30 | 30 | M12x40 |
| **B01.25.05000** | 5000 | 10000 | 40 | 42 | 80 | 30 | 80 | 60 | 48 | 15 | 360 | 300 | 140 | 28 | 40 | 225 | 35 | 130 | 80 | 60 | 50 | 38 | 40 | 43 | M16x75 |
| **B01.25.08000** | 8000 | 16000 | 50 | 52 | 100 | 30 | 100 | 60 | 48 | 15 | 380 | 320 | 160 | 28 | 40 | 273 | 35 | 130 | 85 | 70 | 60 | 40 | 55 | 55 | M16x85 |
| **B01.25.12500** | 12500 | 25000 | 63 | 65 | 120 | 40 | 125 | 90 | 48 | 15 | 470 | 380 | 210 | 28 | 60 | 347 | 30 | 130 | 100 | 70 | 80 | 40 | 55 | 70 | M20x90 |
| **B01.25.18000** | 18000 | 36000 | 76 | 78 | 140 | 40 | 160 | 90 | 64 | 20 | 510 | 420 | 250 | 45 | 60 | 422 | 20 | 135 | 100 | 90 | 100 | 50 | 75 | 100 | M24x115 |
| **B01.25.25000** | 25000 | 50000 | 76 | 78 | 140 | 40 | 160 | 120 | 64 | 25 | 590 | 470 | 270 | 45 | 80 | 422 | 35 | 160 | 110 | 110 | 100 | 55 | 75 | 100 | M30x140 |
| **B01.25.31500** | 31500 | 63000 | 76 | 78 | 140 | 40 | 160 | 130 | 64 | 25 | 600 | 470 | 270 | 45 | 80 | 422 | 35 | 160 | 110 | 120 | 100 | 55 | 75 | 100 | M30x150 |

# LIFTING PIN VDI 3366
# TRAGSCHRAUBE VDI 3366
# PERNO DI SOLLEVAMENTO VDI 3366

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragschrauben das gesamte Werkzeuggewicht tragen müssen.

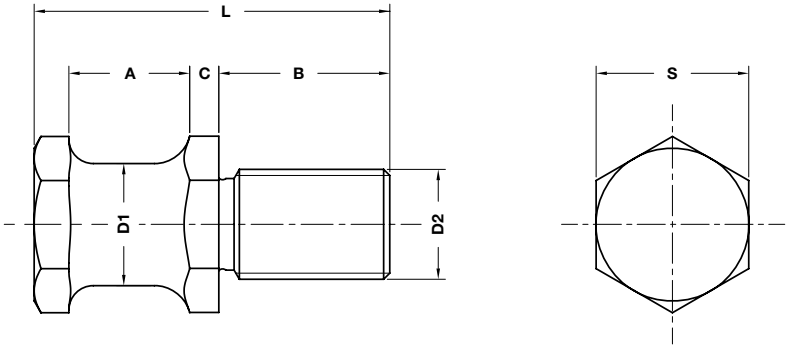
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

## Notes

**Material:** CK45
700÷800 N/mm²



STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=32 |
|---|---|---|
| | B02.05. | 32 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | A | B | C | L | S |
|---|---|---|---|---|---|---|---|---|---|
| **B02.05.16** | 320 | 640 | 16 | M16 | 20 | 28 | 5,5 | 58 | 24 |
| **B02.05.20** | 500 | 1000 | 20 | M20 | 22 | 34 | 6,5 | 68 | 30 |
| **B02.05.25** | 1000 | 2000 | 25 | M24 | 25 | 38 | 8 | 78 | 36 |
| **B02.05.32** | 1500 | 3000 | 32 | M30 | 32 | 45 | 10 | 95 | 41 |
| **B02.05.40** | 2500 | 5000 | 40 | M36 | 40 | 56 | 12 | 118 | 50 |

# LIFTING PIN WITH ROPE SAFETY STOP
# TRAGSCHRAUBE MIT SEILSICHERUNG
# PERNO DI SOLLEVAMENTO CON SICUREZZA FERMAFUNE

**Patent-Nr.: TO2003A000468**

Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragschrauben das gesamte Werkzeuggewicht tragen müssen.

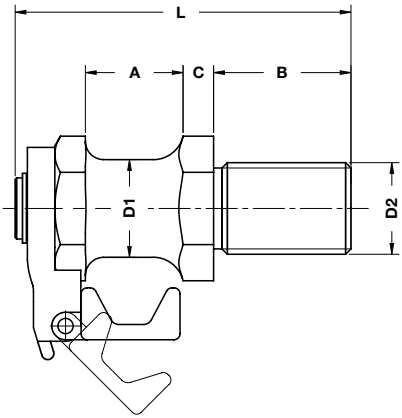
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

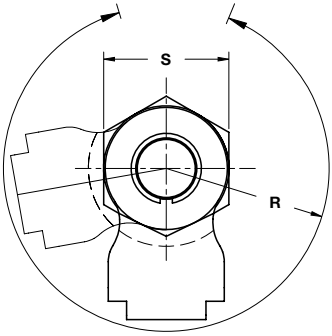
## Notes

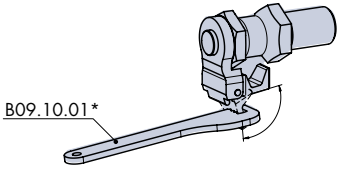
**Material:** CK45
700÷800 N/mm²



STOCK | 3D WEB | CE WEB




*To open rope stop safety use key B09.10.01

| ORDER EXAMPLE | Art. | D1=32 |
|---|---|---|
| | B02.06. | 32 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | A | B | C | L | S | R |
|---|---|---|---|---|---|---|---|---|---|---|
| **B02.06.20** | 500 | 1000 | 20 | M20 | 22 | 34 | 6,5 | 80 | 30 | 38 |
| **B02.06.25** | 1000 | 2000 | 25 | M24 | 25 | 38 | 8 | 93 | 36 | 42 |
| **B02.06.32** | 1500 | 3000 | 32 | M30 | 32 | 45 | 10 | 110 | 41 | 50 |
| **B02.06.40** | 2500 | 5000 | 40 | M36 | 40 | 56 | 12 | 132 | 50 | 57 |

# LIFTING PIN VDI 3366
# TRAGBOLZEN MIT FALLRINGSICHERUNG VDI 3366
# PERNO DI SOLLEVAMENTO VDI 3366

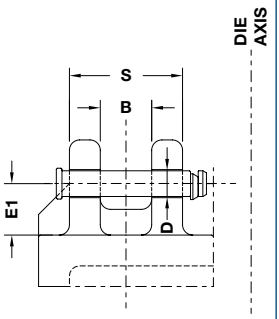
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

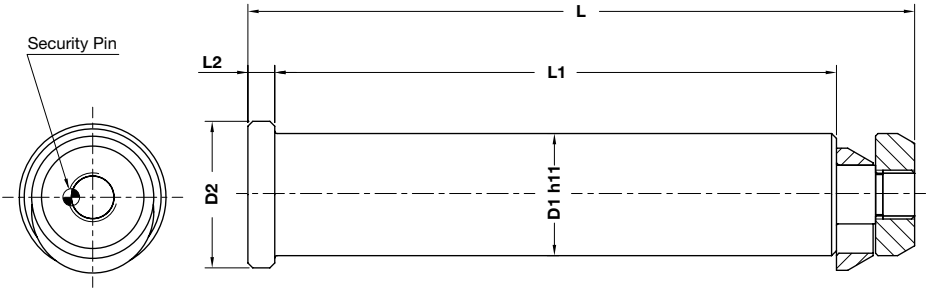
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: VDI3366 ed. 03/1997**






STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=76 |
|---|---|---|
| | B02.10. | 76 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | B | D | D1 | D2 | E1 | L | L1 | L2 | S | Material |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.10.32** | 3200 | 6400 | 60 | 34 | 32 | 40 | 63 | 175 | 145 | 10 | 140 | CK45 |
| **B02.10.40** | 5000 | 10000 | 80 | 42 | 40 | 50 | 80 | 225 | 188 | 10 | 180 | CK45 |
| **B02.10.50** | 8000 | 16000 | 100 | 52 | 50 | 60 | 100 | 273 | 230 | 11 | 220 | CK45 |
| **B02.10.63** | 12500 | 25000 | 120 | 65 | 63 | 75 | 125 | 347 | 295 | 14 | 280 | CK45 |
| **B02.10.76** | 31500 | 63000 | 140 | 78 | 76 | 95 | 160 | 422 | 360 | 15 | 340 | 42CrMo4 + QT |

# LIFTING PIN VW/AUDI
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH VW/AUDI-NORM
# PERNO DI SOLLEVAMENTO VW/AUDI

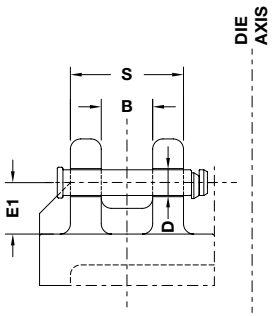
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

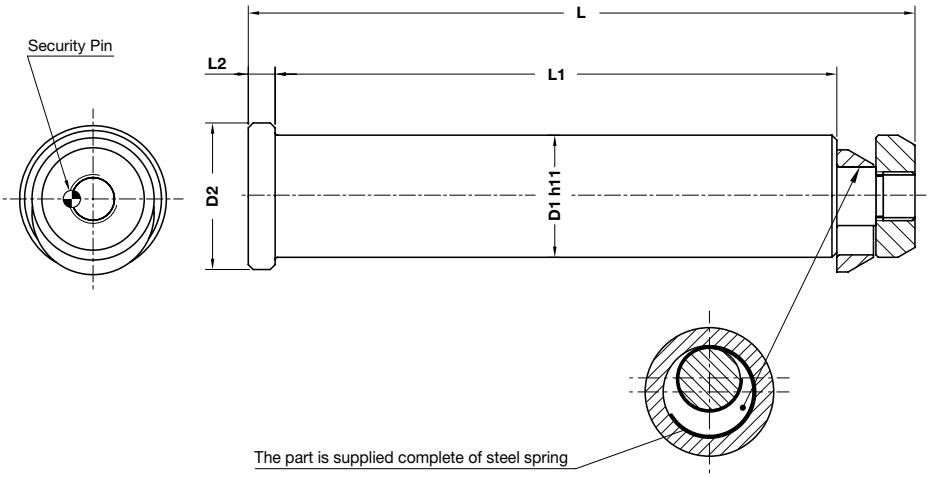
Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: 39D866 VW ed. 09/2011**






STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=76 |
|---|---|---|
| | B02.11. | 76 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | B | D | D1 | D2 | E1 | L | L1 | L2 | S | Material |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.11.32** | 3200 | 6400 | 60 | 34 | 32 | 40 | 63 | 175 | 145 | 10 | 140 | CK45 |
| **B02.11.40** | 5000 | 10000 | 80 | 42 | 40 | 50 | 80 | 225 | 188 | 10 | 180 | CK45 |
| **B02.11.50** | 8000 | 16000 | 100 | 52 | 50 | 60 | 100 | 273 | 230 | 11 | 220 | CK45 |
| **B02.11.63** | 12500 | 25000 | 120 | 65 | 63 | 75 | 125 | 347 | 295 | 14 | 280 | CK45 |
| **B02.11.76** | 31500 | 63000 | 140 | 78 | 76 | 95 | 160 | 422 | 360 | 15 | 340 | 42CrMo4 + QT |

# LIFTING PIN MERCEDES-BENZ
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH MERCEDES-BENZ NORM
# PERNO DI SOLLEVAMENTO MERCEDES-BENZ

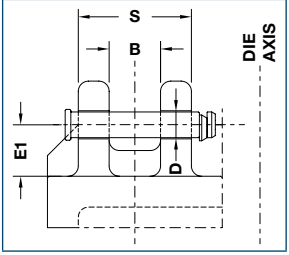
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: VDI3366**

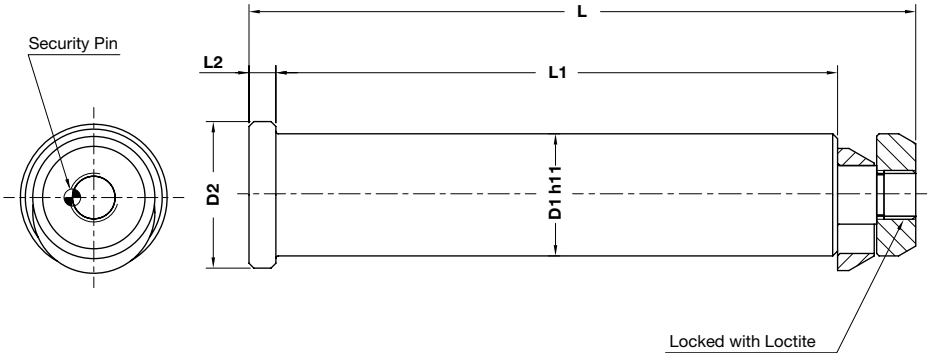





## Notes

**Material:** 42CrMo4 + QT

STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=76 |
|---|---|---|
| | B02.12. | 76 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | B | D | D1 | D2 | E1 | L | L1 | L2 | S |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.12.32** | 3200 | 6400 | 60 | 34 | 32 | 40 | 63 | 175 | 145 | 10 | 140 |
| **B02.12.40** | 5000 | 10000 | 80 | 42 | 40 | 50 | 80 | 225 | 188 | 10 | 180 |
| **B02.12.50** | 8000 | 16000 | 100 | 52 | 50 | 60 | 100 | 273 | 230 | 11 | 220 |
| **B02.12.63** | 12500 | 25000 | 120 | 65 | 63 | 75 | 125 | 347 | 295 | 14 | 280 |
| **B02.12.76** | 31500 | 63000 | 140 | 78 | 76 | 95 | 160 | 422 | 360 | 15 | 340 |

# LIFTING PIN FCA
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH FCA NORM
# PERNO DI SOLLEVAMENTO FCA

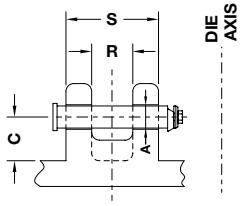
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: 095.25.**



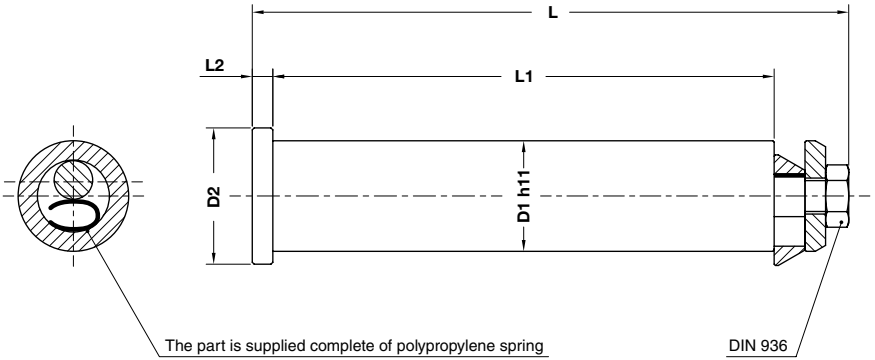



## Notes

**Material:** CK45

STOCK | 3D WEB | CE WEB

Only for replacement
Nur für Reparatur
Solo per riparazione




| ORDER EXAMPLE | Art. | D1=53 | Type |
|---|---|---|---|
| | B02.15. | 53 | C |

| OMCR CODE | Max load (kg) | Max die weight (kg) | Type | A | C | D1 | D2 | L | L1 | L2 | R | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B02.15.43 | 5000 | 10000 | - | 45 | 85 | 43 | 53 | 233 | 195 | 8 | 80 | 180 |
| B02.15.53 | 8000 | 16000 | - | 55 | 105 | 53 | 65 | 282 | 235 | 10 | 100 | 220 |
| B02.15.53C | 8000 | 16000 | C | 55 | 75 | 53 | 65 | 227 | 180 | 10 | 65 | 165 |
| B02.15.63 | 12000 | 24000 | - | 65 | 130 | 63 | 78 | 352,5 | 295 | 12 | 120 | 280 |
| B02.15.63C | 13000 | 26000 | C | 65 | 100 | 63 | 78 | 272,5 | 215 | 12 | 80 | 200 |
| B02.15.78 | 30000 | 60000 | - | 81 | 150 | 78 | 95 | 421,5 | 355 | 14 | 140 | 340 |

# LIFTING PIN FCA
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH FCA NORM
# PERNO DI SOLLEVAMENTO FCA

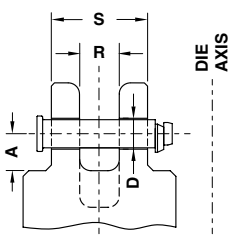
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: 095.25.**



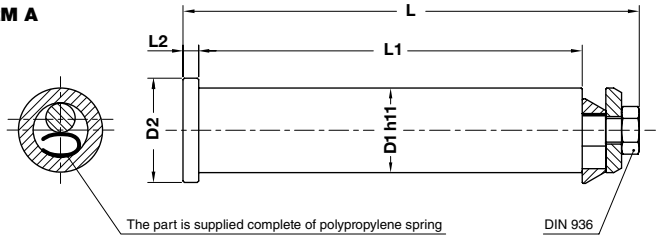



## Notes

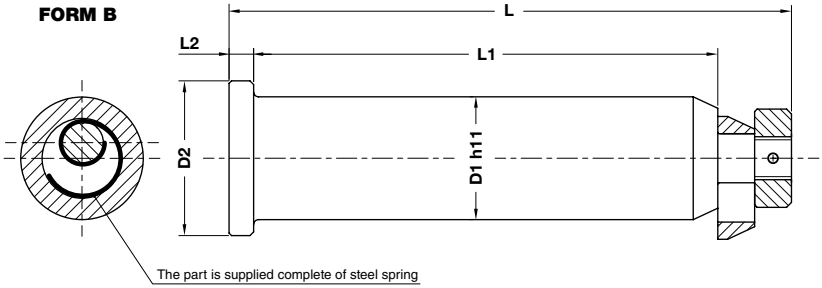
**Material:** 42CrMo4 + QT

STOCK | 3D WEB | CE WEB

**FORM A**




**FORM B**




ORDER EXAMPLE

| Art. | D1=50 |
|---|---|
| B02.16. | 50 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | A | D | D1 | D2 | L | L1 | L2 | R | S | FORM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.16.29** | 4000 | 8000 | 60 | 30 | 29 | 38 | 178.5 | 150 | 6 | 60 | 140 | A |
| **B02.16.33** | 7000 | 14000 | 65 | 35 | 33 | 43 | 200.5 | 170 | 6 | 60 | 160 | A |
| **B02.16.50** | 10000 | 20000 | 70 | 52 | 50 | 63 | 230 | 190 | 10 | 85 | 185 | B |
| **B02.16.63** | 20000 | 40000 | 100 | 65 | 63 | 76 | 320 | 280 | 10 | 110 | 270 | B |
| **B02.16.80** | 40000 | 80000 | 105 | 82 | 80 | 89 | 370 | 320 | 15 | 110 | 310 | B |

# LIFTING PIN FORD
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH FORD NORM
# PERNO DI SOLLEVAMENTO FORD

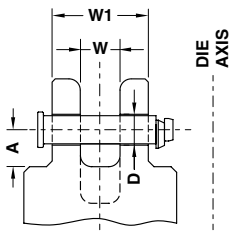
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: W-DX 12-04**

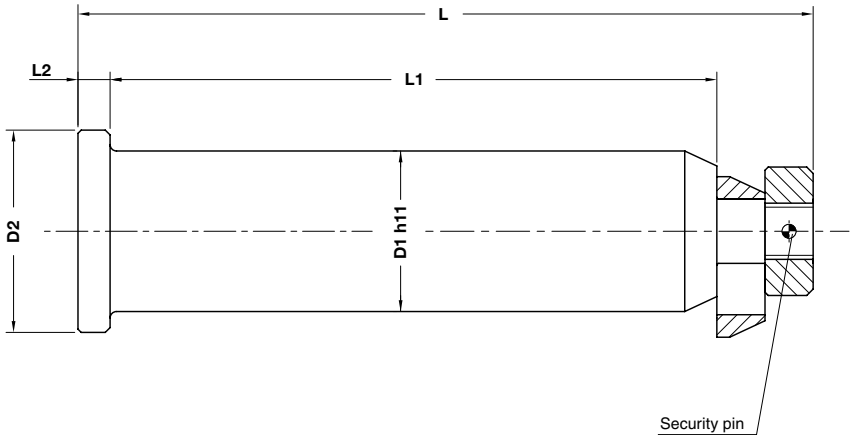





**Notes**

**Material:** 42CrMo4 + QT

STOCK WEB WEB




| ORDER EXAMPLE | Art. | D1=50 |
|---|---|---|
| | B02.22. | 50 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | A | D | D1 | D2 | L | L1 | L2 | W | W1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.22.35** | 1500 | 3000 | 60 | 37 | 35 | 45 | 165 | 125 | 10 | 50 | 110 |
| **B02.22.50** | 5500 | 10050 | 130 | 52 | 50 | 63 | 230 | 190 | 10 | 70 | 170 |
| **B02.22.63** | 23000 | 45500 | 145 | 65 | 63 | 76 | 320 | 280 | 10 | 100 | 260 |
| **B02.22.80** | 30000 | 60000 | 145 | 82 | 80 | 89 | 370 | 320 | 15 | 100 | 300 |

# LIFTING PIN NISSAN
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH NISSAN NORM
# PERNO DI SOLLEVAMENTO NISSAN

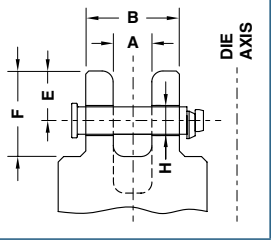
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo:**
**K1140-40÷80**

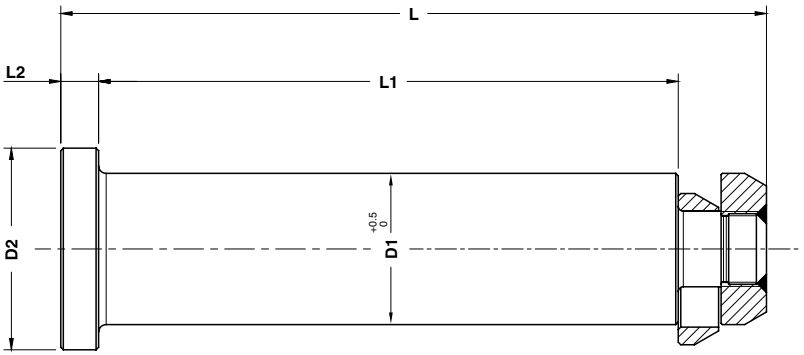





## Notes

**Material:** 42CrMo4 + QT

STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=50 |
|---|---|---|
| | B02.23. | 50 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | A | B | H | D1 | D2 | E | F | L | L1 | L2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.23.40** | 2000 | 4000 | 50 | 150 | 41,5 | 40 | 60 | 50 | 110 | 210 | 160 | 15 |
| **B02.23.50** | 3000 | 6000 | 70 | 210 | 51,5 | 50 | 70 | 75 | 150 | 270 | 220 | 15 |
| **B02.23.60** | 5000 | 10000 | 80 | 220 | 61,5 | 60 | 80 | 100 | 195 | 280 | 230 | 15 |
| **B02.23.70** | 7500 | 15000 | 80 | 240 | 71,5 | 70 | 90 | 110 | 210 | 300 | 250 | 15 |
| **B02.23.80** | 17500 | 35000 | 90 | 290 | 82 | 80 | 100 | 120 | 230 | 350 | 300 | 15 |

# LIFTING PIN OPEL-GM
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH OPEL-GM NORM
# PERNO DI SOLLEVAMENTO OPEL-GM

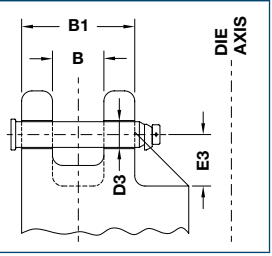
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: 15.30.00 ed. 05/2007**

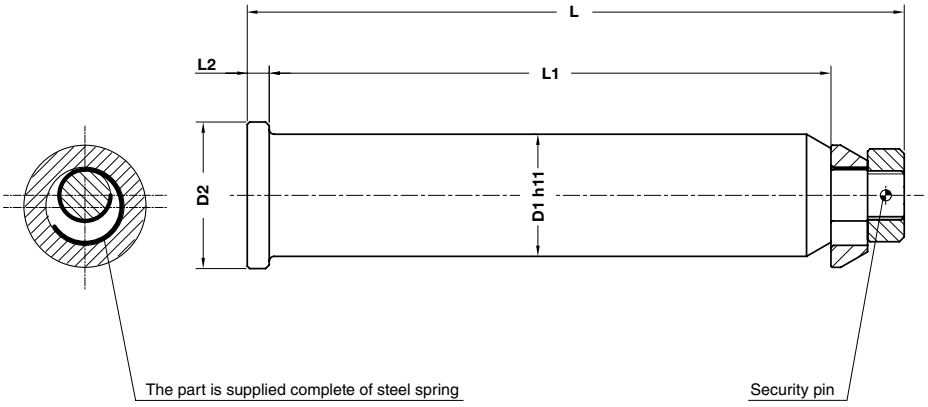





**Notes**

**Material:** 42CrMo4 + QT

STOCK
3D WEB
CE WEB




ORDER EXAMPLE

| Art. | D1=80 |
|---|---|
| B02.26. | 80 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | B | B1 | D1 | D2 | D3 | E3 | L | L1 | L2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.26.32** | 3400 | 6800 | 70 | 150 | 32 | 40 | 34 | 65 | 177 | 155 | 5 |
| **B02.26.40** | 5650 | 11300 | 80 | 180 | 40 | 50 | 42 | 85 | 220 | 188 | 7 |
| **B02.26.50** | 8950 | 17900 | 100 | 220 | 50 | 60 | 52 | 100 | 270 | 230 | 9 |
| **B02.26.63** | 14350 | 28700 | 120 | 280 | 63 | 75 | 65 | 125 | 342 | 295 | 16 |
| **B02.26.80** | 26700 | 53400 | 120 | 320 | 80 | 89 | 82 | 160 | 387 | 335 | 16 |

# LIFTING PIN PSA-RENAULT
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH PSA-RENAULT NORM
# PERNO DI SOLLEVAMENTO PSA-RENAULT

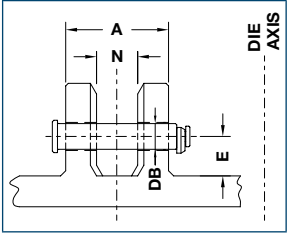
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo:**
**EM24.50.400 ed. 07/2006**
**EM24.59.950 ed. 07/2006**

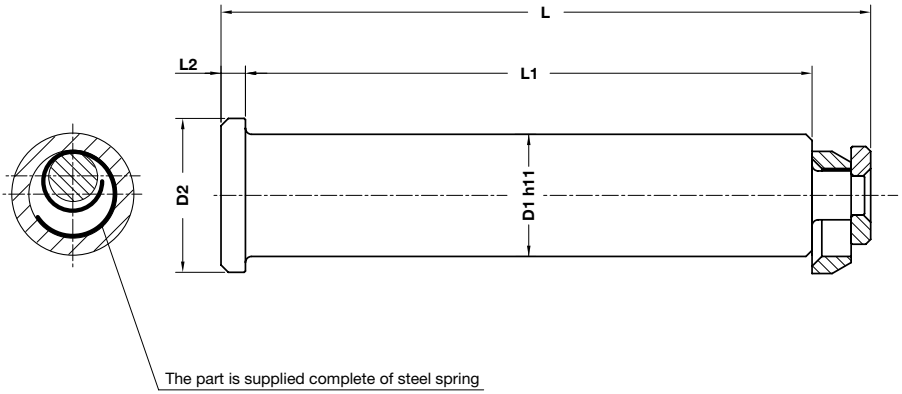





## Notes

**Material:** St52

STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=50 |
|---|---|---|
| | B02.30. | 50 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | A | E | DB | D1 | D2 | L | L1 | L2 | N |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.30.32** | 6000 | 12000 | 125 | 55 | 34 | 32 | 40 | 154 | 132 | 6 | 50 |
| **B02.30.40** | 9000 | 18000 | 160 | 70 | 42 | 40 | 50 | 197,5 | 170 | 8 | 65 |
| **B02.30.50** | 14000 | 28000 | 200 | 90 | 52 | 50 | 63 | 247,5 | 212 | 10 | 80 |
| **B02.30.63** | 22500 | 45000 | 250 | 100 | 65 | 63 | 80 | 309 | 265 | 12 | 100 |

# LIFTING PIN VOLVO
# TRAGBOLZEN MIT FALLRINGSICHERUNG UND FEDER NACH VOLVO NORM
# PERNO DI SOLLEVAMENTO VOLVO

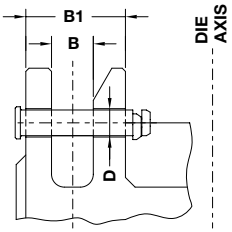
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: BCD8271,81 01/2015**

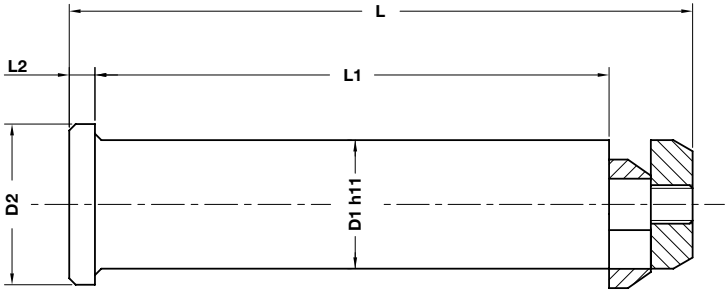





**Notes**

**Material:** St52

STOCK | 3D WEB | CE WEB




| ORDER EXAMPLE | Art. | D1=63 | Type |
|---|---|---|---|
| | B02.35. | 63 | C |

| OMCR CODE | Max load (kg) | Max die weight (kg) | Type | A | B | B1 | C | D | D1 | D2 | E | L | L1 | L2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B02.35.40** | 2500 | 5000 | - | 40 | 65 | 155 | 50 | 42 | 40 | 50 | 100 | 195 | 160 | 8 |
| **B02.35.63C** | 8000 | 16000 | C | 60 | 100 | 220 | 60 | 65 | 63 | 75 | 125 | 285 | 230 | 14 |
| **B02.35.63** | 12000 | 24000 | - | 80 | 100 | 260 | 80 | 65 | 63 | 75 | 125 | 327 | 275 | 14 |
| **B02.35.80** | 20000 | 40000 | - | 100 | 120 | 320 | 100 | 82 | 80 | 95 | 180 | 402 | 340 | 15 |

# REPLACEMENT LIFTING PIN FOR LIFTING BRACKET BMW
# ERSATZTRAGBOLZEN FÜR TRAGWANGE BMW
# PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO BMW

⚠

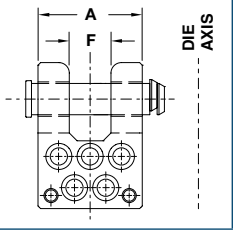
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: B01.20**

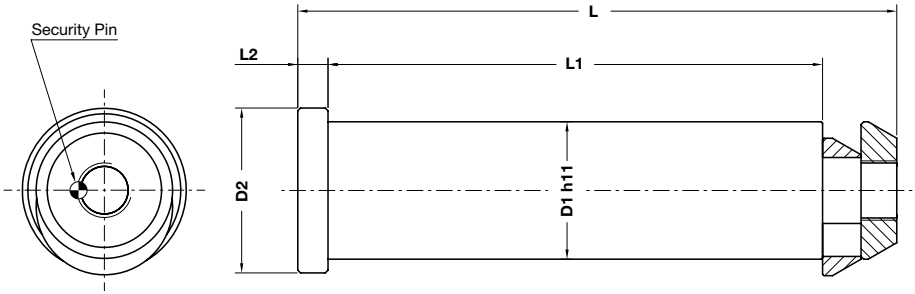





STOCK | 3D WEB | CE WEB

## Notes

**Material:**
See table - siehe Tabelle - vedi tabella




| ORDER EXAMPLE | Art. | D1=80 | Type |
|---|---|---|---|
| | B02.40. | 80 | A |

| OMCR CODE | Max load (kg) | Max die weight (kg) | Type | A | F | D1 | D2 | L | L1 | L2 | Material |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B02.40.30 | 3200 | 6400 | - | 126 | 50 | 30 | 40 | 158 | 129 | 10 | CK45 |
| B02.40.40 | 5000 | 10000 | - | 150 | 60 | 40 | 50 | 187 | 155 | 10 | CK45 |
| B02.40.50 | 8000 | 16000 | - | 175 | 75 | 50 | 60 | 220 | 180 | 11 | CK45 |
| B02.40.60 | 12500 | 25000 | - | 200 | 80 | 60 | 70 | 246 | 205 | 11 | CK45 |
| B02.40.80 | 18000 | 36000 | - | 250 | 100 | 80 | 90 | 305 | 255 | 12 | CK45 |
| B02.40.80A | 25000 | 50000 | A | 300 | 120 | 80 | 90 | 360 | 310 | 12 | 42CrMo4 + QT |
| B02.40.80B | 31500 | 63000 | B | 345 | 135 | 80 | 90 | 405 | 355 | 22 | 42CrMo4 + QT |

# REPLACEMENT LIFTING PIN FOR LIFTING BRACKET FCA
# ERSATZTRAGBOLZEN FÜR TRAGWANGE FCA
# PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO FCA

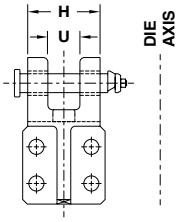
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: B01.15**

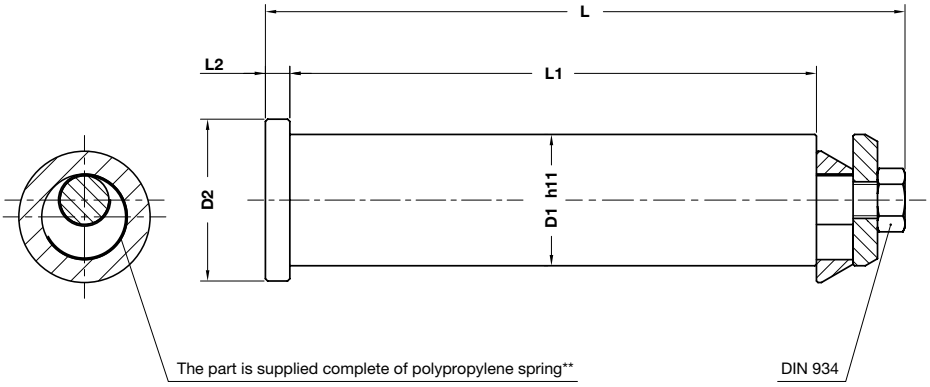





STOCK | 3D WEB | CE WEB

**Notes**

**Material:** CK45




| ORDER EXAMPLE | Art. | D1=60 |
|---|---|---|
| | B02.42. | 60 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | D1 | D2 | H | L | L1 | L2 | U |
|---|---|---|---|---|---|---|---|---|---|
| **B02.42.15** | 600 | 1200 | 15,6 | 25 | 70 | 102,5 | 77 | 6 | 30 |
| **B02.42.20** | 1000 | 2000 | 20,6 | 30 | 79 | 113,5 | 86 | 6 | 35 |
| **B02.42.25** | 2000 | 4000 | 25,6 | 35 | 90 | 128,5 | 100 | 6 | 40 |
| **B02.42.33** | 4000 | 8000 | 33 | 43 | 125 | 166,5 | 135 | 6 | 55 |
| **B02.42.43** | 7000 | 14000 | 43 | 53 | 160 | 210,5 | 175 | 8 | 60 |

# REPLACEMENT LIFTING PIN FOR LIFTING BRACKET VW/AUDI
# ERSATZTRAGBOLZEN FÜR TRAGWANGE VW/AUDI
# PERNO DI RICAMBIO PER STAFFA DI SOLLEVAMENTO VW/AUDI

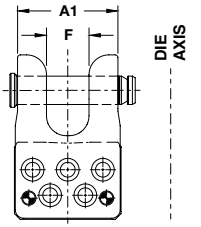
Respect the max load
Maximale Nutzlast beachten
Rispettare il carico Max

**WARNING - ACHTUNG - ATTENZIONE:**
For safety reason, please consider always that the weight of the die has to be supported by just 2 lifting pins.

Aus Sicherheitsgründen stets berücksichtigen, dass zwei Tragbolzen das gesamte Werkzeuggewicht tragen müssen.

Per ragioni di sicurezza, considerare sempre che il peso dello stampo deve essere sopportato da 2 soli perni.

**According - Nach - Secondo: B01.24**

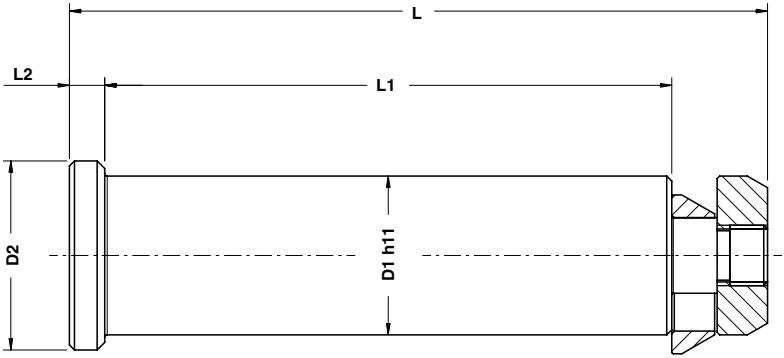





**Notes**

**Material:** CK45

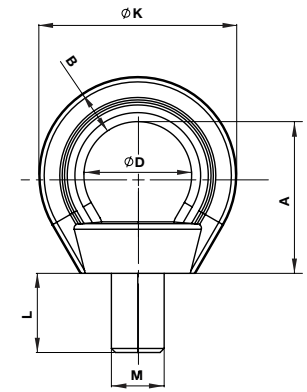
STOCK | 3D WEB | CE WEB

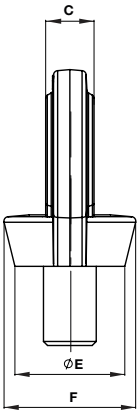



| ORDER EXAMPLE | Art. | D1 |
|---|---|---|
| | B02.44. | 63 |

| OMCR CODE | Max load (kg) | Max die weight (kg) | A1 | D1 | D2 | F | L | L1 | L2 |
|---|---|---|---|---|---|---|---|---|---|
| **B02.44.50** | 8000 | 16000 | 177 | 50 | 60 | 75 | 221 | 182 | 11 |
| **B02.44.63** | 12500 | 25000 | 220 | 63 | 75 | 80 | 277 | 225 | 14 |

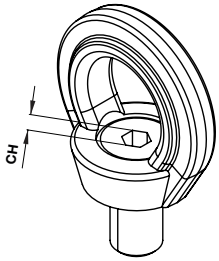
## ROTATING EYEBOLT H.T. - RINGSCHRAUBE H.T. - GOLFARE GIREVOLE H.T.






WEB




**OPTIONAL KEY = W**



**FORESEEN USE**

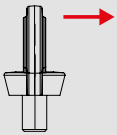
**Turning eyebolt needed to lift loads to assemble to the load itself with specific threaded hole generally used to turn or tilt heavy loads.**

- Safety coefficient 4 in all loading directions
- Designed, tested and certified in complian ce with the technical directives GS-OA 15-04 EN 1677
- Suitable for safe lifting in compliance with the machinery directive 2006/42/EC
- Can be oriented at 360°
- Tested at 100 % magnaflux
- Tested at 20.000 stress cycles
- Ideal for fastening at 90°
- Captive screws
- On the axial pull there can be variation of +/-5° with a 10% decrease in capacity

Accordingly with the requirements of "DGUV – German institution for security" please use the devise with the screw supplied, if replaced OMCR Srl disclaims any and all responsibility or liability.

**Not suitable for continuous rotation during loading**

**CONFIGURATION NOT RECOMMENDED**



| ORDER EXAMPLE | Art. | Screw Dim. | OPTION KEY |
|---|---|---|---|
| | B03.10. | 010 | W |

| OMCR CODE | Size (mm) | W.L.L. (t) | A (mm) | B (mm) | C (mm) | D (Ømm) | E (Ømm) | F (mm) | K (mm) | L (mm) | CH (mm) | Weight (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B03.10.006 | M06 | 0,1 | 27 | 9,5 | 7 | 20 | 23 | 27,7 | 37 | 9 | 6 | 0,08 |
| B03.10.008 | M08 | 0,3 | 33,7 | 10 | 9,8 | 25 | 25,5 | 30 | 46 | 12 | 6 | 0,120 |
| B03.10.010 | M10 | 0,4 | 33,7 | 10 | 9,8 | 25 | 25,5 | 30 | 46 | 15 | 6 | 0,120 |
| B03.10.012 | M12 | 0,75 | 41,5 | 12,5 | 11,5 | 30 | 30,6 | 36,5 | 55,5 | 18 | 8 | 0,200 |
| B03.10.016 | M16 | 1,5 | 49,5 | 14,5 | 15,7 | 35 | 36,5 | 42 | 64,5 | 24 | 10 | 0,350 |
| B03.10.020 | M20 | 2,3 | 58 | 16 | 18 | 40 | 42 | 52,5 | 74,5 | 30 | 12 | 0,600 |
| B03.10.024 | M24 | 3,2 | 69 | 20,5 | 22 | 49 | 50 | 61 | 90 | 36 | 12 | 1,000 |
| B03.10.030 | M30 | 4,5 | 86 | 25,5 | 28 | 60 | 66 | 75 | 111 | 45 | 17 | 2,000 |
| B03.10.036 | M36 | 7 | 105 | 32 | 30 | 74 | 77 | 96,5 | 135 | 55 | 22 | 3,400 |
| B03.10.042 | M42 | 9 | 118 | 38 | 37 | 82 | 87 | 110 | 158 | 65 | 24 | 5,700 |
| B03.10.048 | M48 | 12 | 137 | 43 | 38 | 95 | 102 | 124,5 | 180 | 72 | 27 | 8,500 |

**WORKING LOAD LIMIT W.L.L. (t)**

| OMCR CODE | Size (mm) | 0° | 0° | 90° | 90° | 0-45° | 45°- 60° | Asimm | 0°- 45° | 45°- 60° | Asimm | Max tightening couple |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Single leg | 2 legs | Single leg | 2 legs | 2 legs | | | 3/4 legs | | | (Nm) |
| B03.10.006 | M06 | 0,5 | 1 | 0,1 | 0,2 | 0,14 | 0,1 | 0,1 | 0,21 | 0,15 | 0,1 | 6 |
| B03.10.008 | M08 | 1 | 2 | 0,3 | 0,6 | 0,42 | 0,3 | 0,3 | 0,63 | 0,45 | 0,3 | 8 |
| B03.10.010 | M10 | 1 | 2 | 0,4 | 0,8 | 0,56 | 0,4 | 0,4 | 0,84 | 0,6 | 0,4 | 16 |
| B03.10.012 | M12 | 2 | 4 | 0,75 | 1,5 | 1 | 0,75 | 0,75 | 1,6 | 1,12 | 0,75 | 25 |
| B03.10.016 | M16 | 4 | 8 | 1,5 | 3 | 2 | 1,5 | 1,5 | 3,15 | 2,25 | 1,5 | 60 |
| B03.10.020 | M20 | 6 | 12 | 2,3 | 4,6 | 3,22 | 2,3 | 2,3 | 4,83 | 3,45 | 2,3 | 110 |
| B03.10.024 | M24 | 8 | 16 | 3,2 | 6,4 | 4,48 | 3,2 | 3,2 | 6,7 | 4,8 | 3,2 | 195 |
| B03.10.030 | M30 | 12 | 24 | 4,5 | 9 | 6,3 | 4,5 | 4,5 | 9,4 | 6,7 | 4,5 | 320 |
| B03.10.036 | M36 | 16 | 32 | 7 | 14 | 9,8 | 7 | 7 | 14,7 | 10,5 | 7 | 585 |
| B03.10.042 | M42 | 24 | 45 | 9 | 18 | 12,6 | 9 | 9 | 18,9 | 13,5 | 9 | 920 |
| B03.10.048 | M48 | 32 | 64 | 12 | 24 | 16,8 | 12 | 12 | 25,2 | 18 | 12 | 1590 |



# B03.10

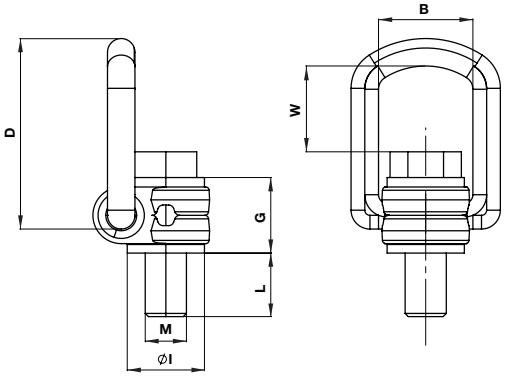
## KEY - SCHLÜSSEL - CHIAVE

| ORDER EXAMPLE | Art. | Thread=M10 |
|---|---|---|
| | B03.10. | C10 |

| OMCR CODE | Size (mm) | OMCR CODE | Size (mm) |
|---|---|---|---|
| B03.10.C06 | M06 | B03.10.C24 | M24 |
| B03.10.C08 | M08 | B03.10.C30 | M30 |
| B03.10.C10 | M10 | B03.10.C36 | M36 |
| B03.10.C12 | M12 | B03.10.C42 | M42 |
| B03.10.C16 | M16 | B03.10.C48 | M48 |
| B03.10.C20 | M20 | | |

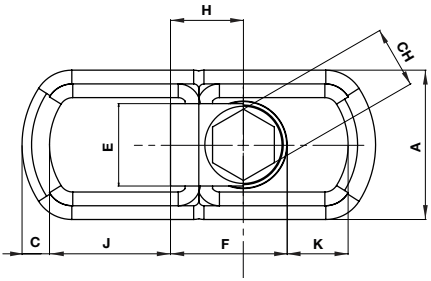


# ROTATING EYEBOLT WITH CLAMP - LASTBOCK - GOLFARE GIREVOLE CON STAFFA






WEB




## Notes

**PULL AT 90°** with minimum overall dimensions.

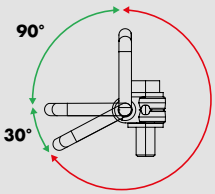
Available on demand **-40°C**.

**FORESEEN USE**
**Anchorage point for load lifting.**

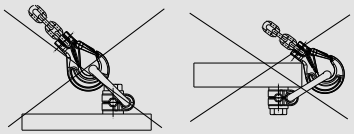
- Safety coefficient 4 in all loading directions
- Designed, tested and certified incompliance with the technical directives GS-OA 15-04 – EN 1677
- Suitable for safe lifting in compliance with the machinery directive 2006/42/EC
- Can be oriented at 360°
- Tested at 100 % magnaflux
- Tested at 20.000 stress cycles
- The screw is protected with the GEOMET system which guarantees lasting protection in time
- Ideal for fastening at 90°
- Captive screws.

Accordingly with the requirements of "DGUV – German institution for security" please use the devise with the screw supplied, if replaced OMCR Srl disclaims any and all responsibility or liability.

**Not suitable for continuous rotation during loading**




**NOT ALLOWED**



ORDER EXAMPLE

| Art. | Screw Dim. |
|---|---|
| B03.15. | 010 |

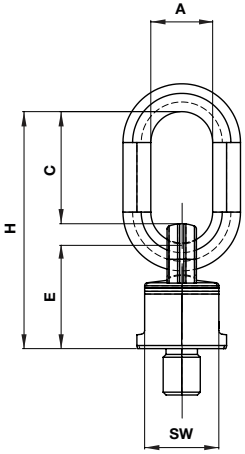
| OMCR CODE | Size (mm) | W.L.L. (t) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | I (mm) | L (mm) | W (mm) | J (mm) | K (mm) | Ch (mm) | Weight (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B03.15.008** | M8 | 0,3 | 57 | 34 | 10 | 78 | 24 | 41 | 30 | 26,5 | 25 | 15 | 43 | 51 | 35 | 13 | 0,275 |
| **B03.15.010** | M10 | 0,63 | 57 | 34 | 10 | 78 | 24 | 41 | 30 | 26,5 | 25 | 15 | 42 | 51 | 35 | 17 | 0,290 |
| **B03.15.012** | M12 | 1 | 66 | 38 | 13,5 | 85 | 30 | 50 | 36 | 33 | 32 | 23 | 40 | 52 | 28 | 19 | 0,500 |
| **B03.15.016** | M16 | 1,5 | 66 | 38 | 13,5 | 85 | 30 | 50 | 36 | 33 | 32 | 24 | 38 | 52 | 28 | 24 | 0,510 |
| **B03.15.020** | M20 | 2,5 | 87 | 55 | 16 | 111 | 48 | 68 | 44 | 42,5 | 45 | 31 | 54 | 71 | 36 | 30 | 1,250 |
| **B03.15.024** | M24 | 4 | 87 | 55 | 16 | 111 | 48 | 68 | 44 | 42,5 | 45 | 37 | 51 | 71 | 36 | 36 | 1,300 |
| **B03.15.030** | M30 | 5 | 109 | 66 | 22,5 | 145 | 54 | 91 | 65 | 58,5 | 60 | 45 | 62 | 86 | 47 | 46 | 3,250 |
| **B03.15.036** | M36 | 8 | 136 | 78 | 28 | 190 | 62 | 108 | 81 | 72,5 | 70 | 59 | 88 | 115 | 74 | 55 | 5,900 |
| **B03.15.042** | M42 | 10 | 136 | 78 | 28 | 190 | 62 | 108 | 75 | 72,5 | 70 | 75 | 86 | 115 | 70 | 65 | 6,500 |
| **B03.15.142** | M42 | 15 | 169 | 97 | 36 | 242 | 68 | 131 | 89 | 87,5 | 85 | 63 | 121 | 151 | 97 | 65 | 11,200 |
| **B03.15.048** | M48 | 20 | 169 | 97 | 36 | 242 | 68 | 131 | 89 | 87,5 | 95 | 71 | 117 | 151 | 93 | 75 | 11,600 |

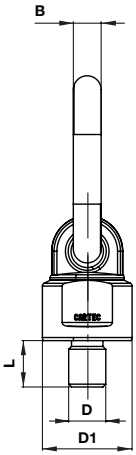
**WORKING LOAD LIMIT W.L.L. (t)**

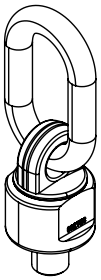


| OMCR CODE | Size (mm) | 0° | 0° | 90° | 90° | 0-45° | 45°- 60° | Asimm | 0°- 45° | 45°- 60° | Asimm | Max tightening couple |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Single leg | 2 legs | Single leg | 2 legs | 2 legs | | | 3/4 legs | | | (Nm) |
| **B03.15.008** | M8 | 0,3 | 0,6 | 0,3 | 0,6 | 0,42 | 0,3 | 0,3 | 0,63 | 0,45 | 0,3 | 30 |
| **B03.15.010** | M10 | 0,63 | 1,26 | 0,63 | 1,26 | 0,88 | 0,63 | 0,63 | 1,32 | 0,95 | 0,63 | 60 |
| **B03.15.012** | M12 | 1 | 2 | 1 | 2 | 1,4 | 1 | 1 | 2,1 | 1,5 | 1 | 100 |
| **B03.15.016** | M16 | 1,5 | 3 | 1,5 | 3 | 2,1 | 1,5 | 1,5 | 3,15 | 2,25 | 1,5 | 150 |
| **B03.15.020** | M20 | 2,5 | 5 | 2,5 | 5 | 3,5 | 2,5 | 2,5 | 5,25 | 3,75 | 2,5 | 250 |
| **B03.15.024** | M24 | 4 | 8 | 4 | 8 | 5,6 | 4 | 4 | 8,4 | 6 | 4 | 400 |
| **B03.15.030** | M30 | 5 | 10 | 5 | 10 | 7 | 5 | 5 | 10,5 | 7,5 | 5 | 500 |
| **B03.15.036** | M36 | 8 | 16 | 8 | 16 | 11,2 | 8 | 8 | 16,8 | 12 | 8 | 800 |
| **B03.15.042** | M42 | 10 | 20 | 10 | 20 | 14 | 10 | 10 | 21 | 15 | 10 | 925 |
| **B03.15.142** | M42 | 15 | 30 | 15 | 30 | 21 | 15 | 15 | 31,5 | 22,5 | 15 | 1500 |
| **B03.15.048** | M48 | 20 | 40 | 20 | 40 | 28 | 20 | 20 | 42 | 30 | 20 | 2000 |

## ROTATING EYEBOLT H.T. - RINGSCHRAUBE H.T. - GOLFARE GIREVOLE H.T.





WEB

### Notes

Can be oriented at **360°**.

Available on demand **-40°C**.

**CAN BE ORIENTED DURING LOADING**

**FORESEEN USE**
**Turning eyebolt needed to lift loads to assemble to the load itself with specific threaded hole generally used to turn or tilt heavy loads.**

- Safety coefficient 4 in all loading directions
- Designed, tested and certified incompliance with the technical directives GS-OA 15-04 – EN 1677
- Suitable for safe lifting in compliance with the machinery directive 2006/42/EC
- Tested at 100 % magnaflux
- Tested at 20.000 stress cycles
- Can be oriented at 360° with self aligning tilting ring at 180°
- Assembled with spheres to make load orientation easier
- On the axial pull there can be variation of +/-5° with a 10% decrease in capacity

Accordingly with the requirements of "DGUV – German institution for security" please use the devise with the screw supplied, if replaced OMCR Srl disclaims any and all responsibility or liability.

**Movement suitable for continuous rotation during loading**

ORDER EXAMPLE

| Art. | Screw Dim. |
|---|---|
| B03.20. | 010 |

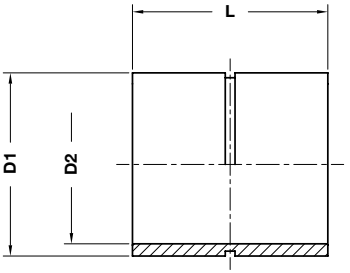
| OMCR CODE | Size (mm) | W.L.L. (t) | A (mm) | B (mm) | C (mm) | E (mm) | H (mm) | SW (mm) | D1 (mm) | Weight (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| **B03.20.008** | M8x16 | 0,3 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,48 |
| **B03.20.010** | M10x18 | 0,5 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,48 |
| **B03.20.012** | M12x18 | 0,7 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,5 |
| **B03.20.016** | M16x20 | 1,4 | 30 | 13 | 46 | 50 | 105 | 30 | 38 | 0,53 |
| **B03.20.020** | M20x30 | 2,5 | 34 | 16 | 57 | 61 | 131 | 40 | 50 | 1,05 |
| **B03.20.024** | M24x30 | 4 | 40 | 18 | 70 | 68 | 153 | 48 | 58 | 1,63 |
| **B03.20.030** | M30x35 | 6,7 | 45 | 22 | 65 | 71 | 156 | 70 | 80 | 2,85 |
| **B03.20.036** | M36x54 | 10 | 50 | 23 | 91 | 86 | 200 | 80 | 90 | 4,62 |
| **B03.20.042** | M42x63 | 12,5 | 50 | 23 | 91 | 86 | 200 | 80 | 90 | 5,2 |
| **B03.20.045** | M45x60 | 12,5 | 50 | 23 | 91 | 86 | 200 | 80 | 90 | 5,2 |
| **B03.20.048** | M48x60 | 17 | 70 | 32 | 120 | 112 | 262 | 100 | 120 | 10,9 |
| **B03.20.056** | M56x78 | 18 | 70 | 32 | 120 | 112 | 262 | 100 | 120 | 10,9 |
| **B03.20.064** | M64x96 | 20 (25) | 70 | 32 | 120 | 112 | 262 | 100 | 120 | 10,9 |
| **B03.20.090** | M90x135 | 40 | 90 | 45 | 124 | 165 | 333 | 140 | 170 | 29 |

**WORKING LOAD LIMIT W.L.L. (t)**

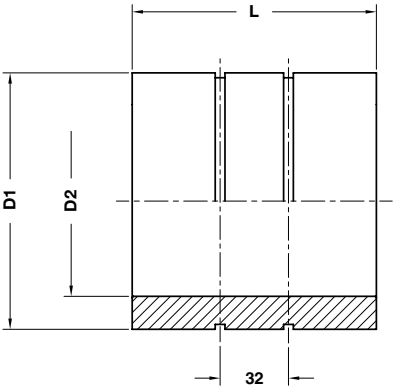


| OMCR CODE | Size (mm) | 0° | 0° | 90° | 90° | 0-45° | 45°- 60° | Asimm | 0°- 45° | 45°- 60° | Asimm | Max tightening couple |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Single leg | 2 legs | Single leg | 2 legs | 2 legs | | | 3/4 legs | | | (Nm) |
| **B03.20.008** | 0,3 t-M8x16 | 0,6 | 1,2 | 0,3 | 0,6 | 0,42 | 0,3 | 0,3 | 0,63 | 0,45 | 0,3 | 16 |
| **B03.20.010** | 0,5 t-M10x18 | 1 | 2 | 0,5 | 1 | 0,75 | 0,5 | 0,5 | 1 | 0,75 | 0,5 | 16 |
| **B03.20.012** | 0,7 t-M12x18 | 1,4 | 2,4 | 0,7 | 1,4 | 1 | 0,7 | 0,7 | 1,4 | 1 | 0,7 | 28 |
| **B03.20.016** | 1,4 t-M16x20 | 2,8 | 5,6 | 1,4 | 2,8 | 2 | 1,4 | 1,4 | 3 | 2,1 | 1,4 | 70 |
| **B03.20.020** | 2,5 t-M20x30 | 5 | 10 | 2,5 | 5 | 3,5 | 2,5 | 2,5 | 5,3 | 3,7 | 2,5 | 135 |
| **B03.20.024** | 4 t-M24x30 | 8 | 16 | 4 | 8 | 5,6 | 4 | 4 | 8,4 | 6 | 4 | 230 |
| **B03.20.030** | 6,7 t-M30x35 | 12 | 24 | 6,7 | 13,4 | 9,4 | 6,7 | 6,7 | 14 | 10 | 6,7 | 465 |
| **B03.20.036** | 10 t-M36x54 | 15 | 30 | 10 | 20 | 14 | 10 | 10 | 21,2 | 15 | 10 | 814 |
| **B03.20.042** | 12,5 t-M42x63 | 15 | 30 | 12,5 | 25 | 17,5 | 12,5 | 12,5 | 26,2 | 18,7 | 12,5 | 1304 |
| **B03.20.045** | 16 t-M45x60 | 25 | 50 | 17 | 34 | 23,5 | 17 | 17 | 31,5 | 22,4 | 15 | 1670 |
| **B03.20.048** | 17 t-M48x60 | 25 | 50 | 18 | 36 | 25,2 | 18 | 18 | 35,7 | 25,5 | 17 | 1981 |
| **B03.20.056** | 18 t-M56x78 | 25 | 50 | 18 | 36 | 25,2 | 18 | 18 | 37 | 27 | 18 | 3000 |
| **B03.20.064** | 20 t-M64x96 | 25 | 50 | 20 | 40 | 28 | 20 | 20 | 42,5 | 30 | 20 | 4738 |
| **B03.20.090** | 40 t-M90x135 | 50 | 100 | 40 | 80 | 56 | 40 | 40 | 85 | 60 | 40 | 14000 |

# BUSH FOR LIFTING PIN VDI-BAK
# BUCHSE FÜR TRAGBOLZEN VDI-BAK
# BOCCOLA PER PERNO DI SOLLEVAMENTO VDI-BAK




**FORM A**



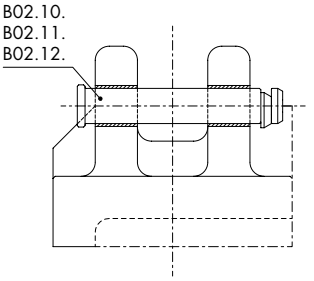

**FORM B**



STOCK

3D WEB

## Application Example



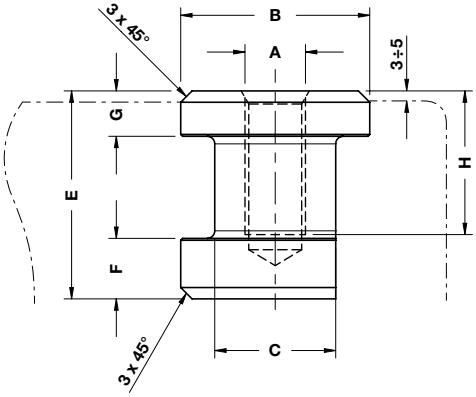

## Notes

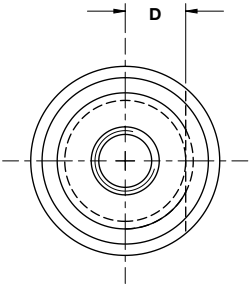
**Material:** St35

| ORDER EXAMPLE | Art. | D1 | D2 | L |
|---|---|---|---|---|
| | B08.11. | 044 | 34 | 040 |

| OMCR CODE | D1 | D2 | L | FORM |
|---|---|---|---|---|
| B08.11.04434040 | 44 | 34 | 40 | A |
| B08.11.05242050 | 52 | 42 | 50 | A |
| B08.11.06252060 | 62 | 52 | 60 | A |
| B08.11.07565080 | 75 | 65 | 80 | A |
| B08.11.10078100 | 100 | 78 | 100 | B |
| B08.11.10578100 | 105 | 78 | 100 | B |

# THREADED STEEL INSERT
# GEWINDEEINSATZ AUS STAHL
# INSERTO FILETTATO IN ACCIAIO



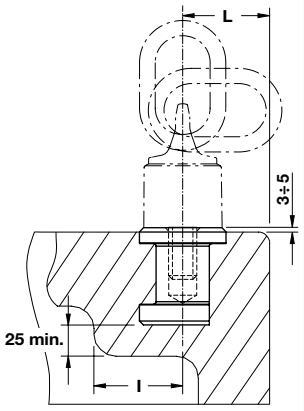




Inserts are to be used in cast iron die only (do not use in cast steel).



STOCK | 3D WEB

## Application Example



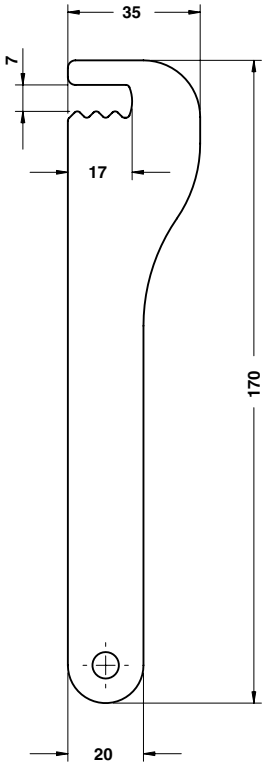

## Notes

**Material:** 42CrMo4 + QT

| ORDER EXAMPLE | Art. | A |
|---|---|---|
| | B08.20. | M20 |

| OMCR CODE | Max load 1 point (kg) | Max load 2÷4 point (kg) | A | B | C | D | E | F | G | H | I | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B08.20.M16** | 1000 | 2000 | M16 | 50 | 32 | 16 | 55 | 16 | 12 | 42 | 60 | 60 |
| **B08.20.M20** | 2100 | 4200 | M20 | 65 | 36 | 18 | 65 | 16 | 12 | 47 | 70 | 70 |
| **B08.20.M24** | 3000 | 6000 | M24 | 65 | 40 | 20 | 75 | 16 | 12 | 57 | 80 | 80 |
| **B08.20.M30** | 5000 | 10000 | M30 | 85 | 60 | 30 | 90 | 20 | 20 | 67 | 100 | 100 |
| **B08.20.M36** | 6500 | 13000 | M36 | 107 | 80 | 40 | 100 | 22 | 22 | 77 | 110 | 110 |
| **B08.20.M42** | 7200 | 14400 | M42 | 107 | 80 | 40 | 130 | 25 | 25 | 95 | 120 | 120 |
| **B08.20.M48** | 8000 | 16000 | M48 | 107 | 80 | 40 | 150 | 30 | 30 | 110 | 130 | 130 |

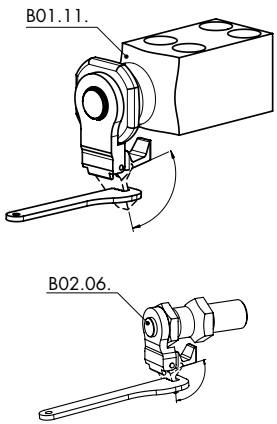
# ROPE SAFETY STOP OPENING KEY
# SCHLÜSSEL FÜR SEILSICHERUNG
# CHIAVE PER APERTURA SICUREZZA FERMAFUNE






STOCK 3D WEB

## Application Example




## Notes

**Material:** CK45

To use for B01.11. - B02.06.

| ORDER EXAMPLE | Art. |
|---|---|
| | B09.10.01 |

| OMCR CODE |
|---|
| B09.10.01 |







# Sliding Elements
# Führungselemente
# Sistemi di guida

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

# Sliding Elements
# Führungselemente
# Sistemi di Guida

GB The **Sliding Elements** line offers an extraordinary variety of items in order to satisfy all requirements of design and construction of sheet metal working dies. Bushes, guide posts, plates, drivers, etc. are produced according to **AFNOR**, **DIN**, **NAAMS**, **VDI**, norms, with high-quality materials and strict quality control, to ensure the reliability which distinguishes our products.

D Die Linie der **Führungselemente** bietet eine einzigartige Artikelvielfalt, die alle Anforderungen an die Konstruktion und Herstellung von Stanzwerkzeugen abdeckt. Unsere Führungsbuchsen, Führungssäulen, Gleitplatten, Prismenführungen usw. werden alle gemäß den **AFNOR**, **DIN, NAAMS, VDI, Normen** aus qualitativ hochwertigen Materialien hergestellt und unterliegen strengen Kontrollen zur Gewährleistung der Qualität, die unsere Produkte auszeichnet.

I La gamma **Sistemi di Guida** offre un'ampia varietà di articoli in grado di rispondere a tutte le esigenze della progettazione e costruzione di stampi per lavorazione lamiere. Boccole, colonne, piastre, guide, ecc., sono tutte realizzate nel rispetto delle **norme AFNOR**, **DIN, NAAMS, VDI,** con materiali di qualità e severi collaudi per garantire quella affidabilità che contraddistingue i nostri prodotti.





# OMCR®

STANDARD DIE COMPONENTS



## GB GENERALITY.

The planning of **OMCR** self-lubricating products offers the technical help to solve slide problems related to mechanical devices, dies and tools with a solution which is normalized, simple, functional and reliable.

**RELIABILITY: OMCR** self-lubricating products support high loads, are long-lasting, require little maintenance, remove assembly problems.

**COSTS REDUCTION:** With **OMCR** self-lubricating products, expensive, centralized lubricating systems are not longer required, maintenance time is low as well as purchase costs. Operating costs and lubricating disposal are reduced.

**USE: OMCR** self-lubricating products offer the best performance with hardened steel (**Hardness > 55 HRC**). The matched surfaces should have good surface finishes (**Ra0.8/ Rz 6.3**) and there should not be any sharp edges present which could eventually cause notching. **Units initially lubricated with a lithium base grease and then every ~100000 cycles** or after cleaning or after a long standstill, guarantee a long life of the slides.

## PRINCIPLE.

Self-lubricating products **OMCR** consist of a metal base in which the lubricant is inserted. During the working phase, the lubricant is exuded between the sliding surfaces, whereby a film is formed preventing direct contact of the working surfaces, like a conventional lubricant.

**BRONZE-GRAPHITE PRODUCTS (Pic.01):** consist of a bronze-aluminum base in which is inserted the solid lubricant in the form of oil-impregnated sintered graphite cylinders. They offer high wear resistance; the disposition of graphite makes it possible to slide in one or two directions.

**SINT300® PRODUCTS (Pic.02):** they consist of a steel metal base on which a 2 mm layer of sintered material is applied which contains solid lubricants (graphite and MoS2) and liquid lubricant (oil) dispersed in homogeneous mode at microscopic level. Thus surface contact is more extensive thanks to the lack of the graphite cylinders and the self-lubricating effect is greatly improved.

**Self-lubricating SINT300® products** offer higher performance than traditional bronze-graphite products (higher speed - higher specific pressure - increased P*V - greater working temperature range ) and allow movement in all directions with the same effectiveness. The higher performance of the self-lubricating sintered **OMCR** products allow more compact movement than traditional self-lubricating bronze-graphite products.

**NOTE: If thickness adjustment is necessary, the steel backing must be machined – Not the sintered section.**

**Technical property - Technische Eigenschaften - Caratteristiche tecniche**

| TECHNICAL PROPERTY | MATERIAL | |
|---|---|---|
| | SINT300® | Bronze / Graphite |
| Max. specific pressure P (N/mm²) | 300 | 100 |
| Max. sliding speed V (m/min) | 40 | 15 |
| Max. output PV (N/mm² * m/min) | 300 | 200 |
| Working temperature range T (°C) | -40÷250 | -40÷150 |
| Coefficient of friction Vs Steel μ | 0.05÷0.15 | 0.05÷0.15 |

## (D) ALLGEMEINES.

Unsere selbstschmierenden **OMCR** Produkte sollen dem Konstrukteur helfen, das Problem des Gleitens in Maschinen, Stanzwerkzeugen und Vorrichtungen mit einer genormten, einfachen, funktionalen und zuverlässigen Lösung zu lösen.

**ZUVERLÄSSIGKEIT:** Die selbstschmierenden **OMCR** Produkte nehmen hohe Lasten auf, haben eine lange Lebensdauer, erfordern wenig Instandhaltung und lassen sich einfach montieren.

**KOSTENREDUZIERUNG:** Die selbstschmierenden Produkte von **OMCR** benötigen keine teuren Zentralschmieranlagen, die Instandhaltungsstunden und die Kosten für Einkauf, Steuerung und Entsorgung von Schmierstoffen entfallen.

**VERWENDUNG:** Die selbstschmierenden Produkte von OMCR bieten beste Leistung in Kombination mit gehärtetem Stahl (**Härte >55 HRC**). Die Gleitflächen sollten eine niedrige Oberflächenrauigkeit (**Ra 0.8/ Rz 6.3**) haben und keine scharfen Kanten aufweisen, die Kerbwirkung erzielen können. Eine Anfangsschmierung **mit Lithiumfett** und eine Schmierung alle **~100.000 Zyklen** oder nach langen Standzeiten bzw. Reinigung gewährleisten eine höhere Lebensdauer der Gleitelemente

## PRINZIP.

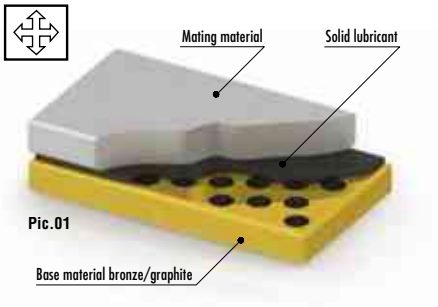
Die selbstschmierenden Produkte von **OMCR** bestehen aus einem Träger aus Metall, auf den ein Schmierstoff aufgebracht wird. Beim Gleiten wird der Schmierstoff freigesetzt, verteilt sich zwischen den Gleitflächen und bildet einen Film, der dadurch dass er deren direkten Kontakt unterbindet die Abnutzung auf das Niveau einer herkömmlichen Schmierung reduziert.

**PRODUKTE AUS BRONZE/FESTSCHMIERSTOFF (Pic.01):** Sie bestehen aus einem Träger aus Bronze-Aluminium, in den fester Schmierstoff in Form von gesinterten und mit Öl imprägnierten Graphitzylindern eingesetzt wird. Sie bieten hohe Abriebfestigkeit. Die Anordnung der Graphiteinlagen ermöglicht das Gleiten in eine oder zwei Richtungen.

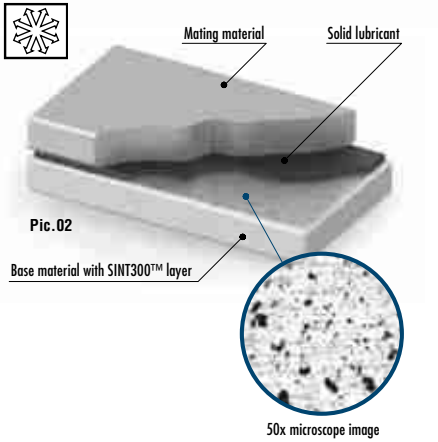
**SINT300® PRODUKTE (Pic.02):** Sie bestehen aus einem Träger aus Stahl, auf den eine ca. 2 mm dicke Schicht aus Sintermaterial mit poröser Struktur aufgebracht wird, die festen Schmierstoff (Graphit und MoS2) und flüssigen Schmierstoff (Öl) enthält, welche homogen mikroskopisch verteilt sind. Die Kontaktfläche aus Metall wird durch das Fehlen der Graphiteinsätze größer und die selbstschmierende Wirkung erheblich verbessert. Die **selbstschmierenden SINT300® produkte** von **OMCR** bieten bessere Leistungen als die herkömmlichen Produkte aus Bronze/ Festschmierstoff (höhere Geschwindigkeit, größerer spezifischer Druck, größer PV-Wert, breiterer Betriebstemperatur-Einsatzbereich) und ermöglichen ein Gleiten in alle Richtungen mit derselben Wirkung.

Die besseren Leistungen der **selbstschmierenden Sinterprodukte** von **OMCR** gestatten die Gestaltung von kompakteren Gleitelementen gegenüber den herkömmlichen selbstschmierenden Produkten aus Bronze mit Festschmierstoff.

**Anmerkung: Eventuell erforderliche Anpassungsarbeiten sind auf der Stahlseite und nicht auf der Sinterbronzeschicht auszuführen!**



Pic.01



Pic.02

## GENERALITÀ.

Il programma di prodotti autolubrificanti **OMCR** si propone di aiutare i progettisti nel risolvere il problema degli scorrimenti nelle apparecchiature meccaniche, stampi e attrezzature, con una soluzione normalizzata, semplice, funzionale e affidabile.

**AFFIDABILITÀ:** I prodotti autolubrificanti **OMCR** sopportano alti carichi, hanno una lunga durata, richiedono poca manutenzione ed eliminano gli inconvenienti al montaggio.

**RIDUZIONE DEI COSTI:** Con gli autolubrificanti **OMCR** non sono necessari i costosi impianti di lubrificazione centralizzata, si riducono le ore di manutenzione e i costi per l'acquisto, la gestione e lo smaltimento dei lubrificanti.

**USO:** I prodotti autolubrificanti **OMCR** offrono le migliori prestazioni in accoppiamento con acciaio temprato (**Durezza >55 HRC**).

È opportuno che le superfici in accoppiamento abbiano una buona finitura superficiale (**Ra 0.8/ Rz 6.3**) e che non siano presenti spigoli vivi tali da generare effetti di intaglio. Una lubrificazione iniziale, con **grasso saponificato al litio**, e lubrificazioni a intervalli di **~100000 cicli** o in caso di lavaggi o soste prolungate garantiscono la durata degli elementi di scorrimento.

## PRINCIPIO.

I prodotti autolubrificanti **OMCR** sono costituiti da una base in metallo nella quale viene inserito il lubrificante. Durante la fase di lavoro, il lubrificante viene rilasciato e si dispone tra le superfici in scorrimento, formando cosi un film che, impedendo il contatto diretto, riduce l'usura al pari di una lubrificazione tradizionale.

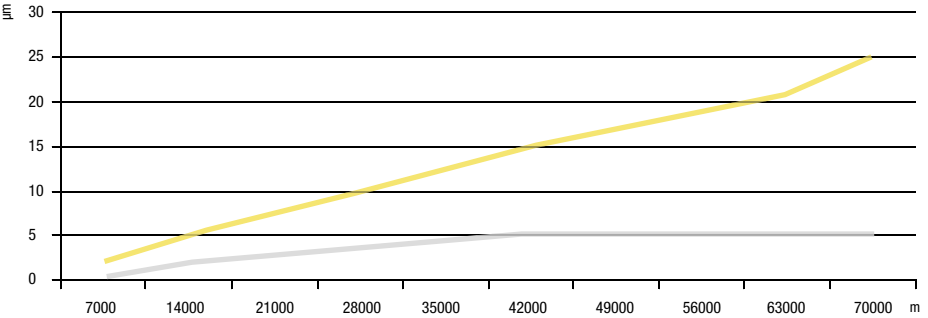
**PRODOTTI IN BRONZO-GRAFITE (Pic.01):** sono costituiti da una base in bronzo-alluminio nella quale viene inserito il lubrificante solido sotto forma di cilindri di grafite sinterizzata e impregnata di olio. Offrono elevata resistenza all'usura; la disposizione degli inserti in grafite rende possibile lo scorrimento in una o due direzioni.

**PRODOTTI IN SINT300® (Pic.02):** sono costituiti da una base in acciaio sulla quale è applicato uno strato di 2 mm in materiale sinterizzato con struttura porosa che ingloba del lubrificante solido (grafite e MoS2) e del lubrificante liquido (olio) dispersi in modo omogeneo a livello microscopico , la superficie di contatto risulta quindi più ampia per la mancanza degli inserti in grafite e l'effetto autolubrificante è notevolmente migliorato.

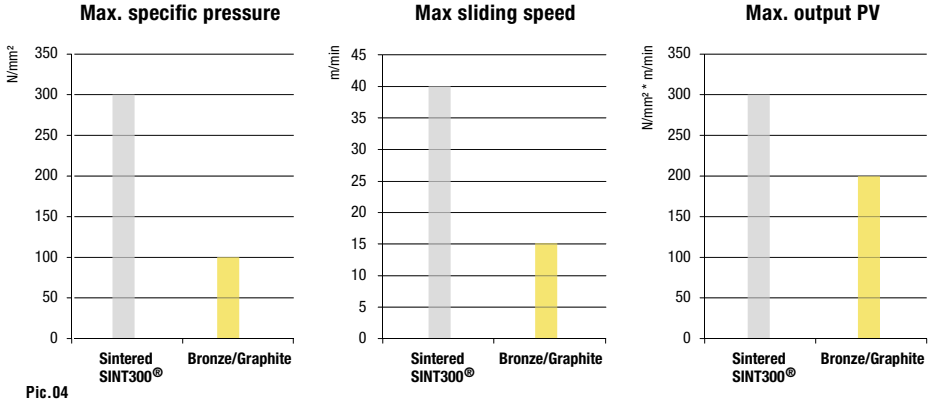
I **prodotti autolubrificanti in SINT300®** offrono maggiori prestazioni rispetto ai tradizionali prodotti in bronzo/grafite Pic.03 e Pic.04 (maggiore velocità, maggiore pressione specifica, maggiore P*V, maggiore gamma di temperature di esercizio) e permettono lo scorrimento in tutte le direzioni con la stessa efficacia. Le maggiori performance dei prodotti autolubrificanti in sinterizzato **OMCR** permettono di realizzare scorrimenti più compatti rispetto ai tradizionali prodotti autolubrificanti in bronzo-grafite.

**NOTA: gli eventuali adattamenti sono da effettuare sulla base in acciaio e non sul riporto sinterizzato.**

**Wear amount in opposition to Steel HRC 58÷60 P*V=200**




Pic.03




Pic.04

## LINEAR TRIBOMETER - LINEARES TRIBOMETER - TRIBOMETRO LINEARE





(GB) **OMCR** has designed and built, for its research centre, a **LINEAR TRIBOMETER** (Patent Pending) to determine the specific pressure and speed limits of the different materials in different combinations and in different conditions of lubrication. This tool allows us to foresee the wear phenomena and the efficiency of the self-lubricating products by simulating actual operating conditions and constantly monitoring the flow speed, the specific pressures, the friction coefficient and the operating temperature.

(D) **OMCR** hat für ihr hauseigenes Entwicklungszentrum ein **LINEARES TRIBOMETER** (Patent Pending) entwickelt, um die Grenzen des spezifischen Drucks und der Geschwindigkeit der diversen Materialien in verschiedenen Kombinationen und unter unterschiedlichen Bedingungen der Schmierung bestimmen zu können. Mit diesem Messinstrument kann die Abnutzung und die Wirksamkeit von selbstschmierenden Produkten durch Simulation der effektiven Arbeitsbedingungen und konstante Überwachung der Gleitgeschwindigkeit, der Flächenpressung, des Reibungskoeffizienten und der Betriebstemperatur bestimmt werden.

(I) La **OMCR** ha progettato e costruito per il proprio centro ricerche un **TRIBOMETRO LINEARE** (Patent Pending) per determinare i limiti di pressione specifica e velocità dei diversi materiali in differenti combinazioni e in diverse condizioni di lubrificazione. Questo strumento consente di prevedere i fenomeni di usura e l'efficacia dei prodotti autolubrificanti simulando le effettive condizioni di lavoro e monitorando costantemente la velocità di scorrimento, le pressioni specifiche, il coefficiente di attrito e la temperatura di esercizio.

| E40.02 | E40.04 | E40.05 | E40.06 | E40.07 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | | VDI 3357 | VDI 3357 |
| Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate self-lubricating<br>Flachleiste<br>Piastra guida autolubrificante | Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate steel<br>Gleitplatte Stahl<br>Piastra guida in acciaio |
| 1036 | 1038 | 1040 | 1042 | 1044 |

| E40.08 | E40.10 | E40.11 | E40.12 | E40.13 |
|---|---|---|---|---|
|  |  |  |  |  |
| | FCA | FCA | VDI 3357 | VDI 3357 |
| Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate steel<br>Gleitplatte Stahl<br>Piastra guida in acciaio | Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate steel<br>Gleitplatte Stahl<br>Piastra guida in acciaio |
| 1046 | 1048 | 1049 | 1050 | 1052 |

| E40.14 | E40.15 | E40.16 | E40.18 | E40.20 |
|---|---|---|---|---|
|  |  |  |  |  |
| AFNOR | AFNOR | AFNOR | VDI 3357 | FCA |
| Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate steel<br>Gleitplatte Stahl<br>Piastra guida in acciaio | Wear plate steel<br>Gleitplatte Stahl<br>Piastra guida in acciaio | Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante | Distance plate for wear plate<br>Höhenausgleich für Gleitplatte<br>Distanziale per piastra |
| 1054 | 1056 | 1058 | 1060 | 1062 |

| E40.21 | E40.22 | E40.30 | E40.35 | E40.40 |
|---|---|---|---|---|
|  |  |  |  |  |
| VDI 3357 | | | | |
| Distance plate for wear plate<br>Höhenausgleich für Gleitplatte<br>Distanziale per piastra | Distance plate for "V" driver<br>Höhenausgleich für Prismenfuhrung<br>Distanziale per guida a "V" | Wear plate steel<br>Deckleiste Stahl<br>Piastra guida in acciaio | Wear plate self-lubricating<br>Gleitplatte Stahl mit Festschmierstoff<br>Piastra guida autolubrificante | Wear plate self-lubricating<br>Gleitplatte Bronze mit Festschmierstoff<br>Piastra guida autolubrificante |
| 1064 | 1066 | 1068 | 1070 | 1072 |

| E40.42 | E41.10 | E41.11 | E42.10 | E42.11 |
|---|---|---|---|---|
|  |  |  |  |  |
| VW-AUDI | FCA | VDI 3357 | FCA | FCA |
| Wear plate<br>Deckleiste<br>Schieberführung<br>Piastra guida | Angular guide self-lubricating<br>Winkelleiste Bronze mit Festschmierstoff<br>Piastra angolare autolubrificante | Angular guide self-lubricating<br>Winkelleiste Bronze mit Festschmierstoff<br>Piastra angolare autolubrificante | Guide bar self-lubricating<br>Führungsleiste Bronze mit Festschmierstoff<br>Lardone autolubrificante | Guide bar steel<br>Führungsleiste Stahl<br>Lardone in acciaio |
| 1074 | 1076 | 1078 | 1080 | 1081 |

| E42.12 | E42.13 | E42.15 | E43.12 | E43.13 |
|---|---|---|---|---|
|  |  |  |  |  |
| VDI 3357 | | | VDI 3357 | VDI 3357 |
| Guide bar self-lubricating<br>Führungsleiste Bronze mit Festschmierstoff<br>Lardone autolubrificante | Guide bar self-lubricating<br>Führunglasche Stahl mit Festschmierstoff<br>Lardone in acciaio autolubrificante | Guide bar self-lubricating<br>Führungsleiste Bronze mit Festschmierstoff<br>Lardone autolubrificante | "V" driver steel<br>Prismenführung<br>Guida a "V" in acciaio | "V" driver self-lubricating<br>Prismenführung Bronze mit Festschmierstoff<br>Guida a "V" autolubrificante |
| 1082 | 1084 | 1086 | 1087 | 1088 |

| E43.20 | E43.21 | E43.25 | E43.26 | E43.27 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | | | |
| "V" driver steel<br>Prismenführung<br>Guida a "V" in acciaio | "V" driver self-lubricating<br>Prismenführung Bronze mit Festschmierstoff<br>Guida a "V" autolubrificante | "V" driver set<br>Prismenführungsgruppe<br>Set di guide a "V" | "V" driver set<br>Prismenführungsgruppe<br>Set di guide a "V" | Positive return<br>Zwangsrückholer<br>Gancio |
| 1089 | 1090 | 1091 | 1092 | 1093 |

| E43.30 | E43.31 | E44.10 | E44.11 | E44.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | GM | GM | VDI 3357 |
| "V" driver self-lubricating<br>Prismenführung Bronze mit Festschmierstoff<br>Guida a "V" autolubrificante | "V" driver steel<br>Prismenführung<br>Guida a "V" in acciaio | Cam dwell wear plate self-lubricating<br>Überlaufkeile Bronze mit Festschmierstoff<br>Cuneo autolubrificante | Cam dwell wear plate steel<br>Überlaufkeile Stahl<br>Cuneo in acciao | Cam dwell wear plate self-lubricating<br>Überlaufkeile Bronze mit Festschmierstoff<br>Cuneo autolubrificante |
| 1094 | 1095 | 1096 | 1098 | 1100 |

| E44.13 | E45.10 | E45.10W | E45.11 | E45.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| VDI 3357 | DIN 9833 | DIN 9833 | NAAMS | AFNOR |
| Cam dwell wear plate steel<br>Überlaufkeile Stahl<br>Cuneo in acciao | Guide post<br>Führungssäule<br>Colonna | Guide post<br>Führungssäule<br>Colonna | Guide post<br>Führungssäule<br>Colonna | Guide post<br>Führungssäule<br>Colonna |
| 1102 | 1104 | 1106 | 1108 | 1110 |

| E45.30 | E45.31 | E46.10 | E46.11 | E46.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | DIN 9834 | NAAMS | AFNOR |
| Guide post endwise bolt-on type<br>Führungssäule zum Anschrauben<br>Colonna da avvitare | Guide post with collar<br>Führungssäule mit Bund<br>Colonna con collare | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante |
| 1112 | 1114 | 1116 | 1118 | 1120 |

| E46.20 | E46.21 | E46.22 | E46.30 | E46.31 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | | | |
| Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Bush self-lubricating<br>Führungsbuchse<br>Boccola autolubrificante | Bush bronzeplated<br>Führungsbuchse mit Bund bronzeplattiert<br>Boccola con riporto in bronzo | Bush bronzeplated<br>Führungsbuchse mit Bund bronzeplattiert<br>Boccola con riporto in bronzo |
| 1122 | 1122 | 1126 | 1128 | 1130 |

| E46.32 | E47.09 | E47.10 | E47.11 | E47.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| | | DIN 9832 | NAAMS | AFNOR |
| Bush bronzeplated<br>Führungsbuchse mit Bund bronzeplattiert<br>Boccola con riporto in bronzo | Toe clamp<br>Haltestück<br>Ritegno per boccola | Toe clamp for bush self-lubricating<br>Haltestück für Buchse<br>Ritegno per boccola autolubrificante | Toe clamp for bush self-lubricating<br>Haltestück für Buchse<br>Ritegno per boccola autolubrificante | Toe clamp for bush self-lubricating<br>Haltestück für Buchse<br>Ritegno per boccola autolubrificante |
| 1132 | 1134 | 1135 | 1136 | 1137 |

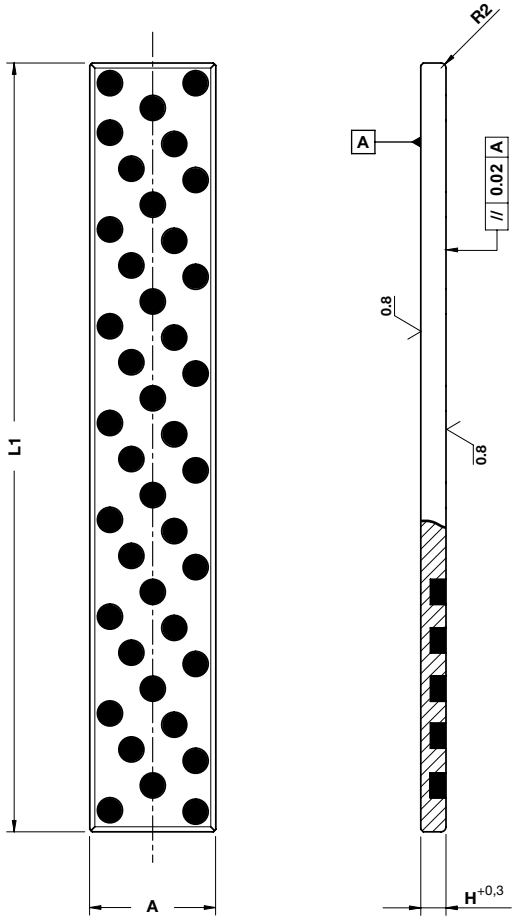
| E47.13 | E47.14 | E47.15 | E47.30 | E47.31 |
|---|---|---|---|---|
|  |  |   |  |  |
| AFNOR | AFNOR | | | |
| Guide post retainer<br>Haltestück für Führungssäule<br>Ritegno per colonna guida | Guide post retainer ring<br>Haltering für Führungssäule<br>Anello di tenuta per colonna guida | Retainer<br>Sicherungsplatte<br>Piastrina | Toe Clamp<br>Haltestück<br>Ritegno | Retaining disc<br>Haltescheibe<br>Disco di fissaggio |
| 1138 | 1139 | 1140 | 1141 | 1142 |

**E50 SINT300® PRODUCTS**

| E50.06 | E50.12 | E50.42 | E50.50 |
|---|---|---|---|
|  |  |  |  |
| VDI 3357 | VDI 3357 | | |
| Sintered steel wear plate<br>Gleitplatte Stahl mit Sintergleitfläche<br>Piastra guida in acciaio sinterizzato | Sintered steel wear plate<br>Gleitplatte Stahl mit Sintergleitfläche<br>Piastra guida in acciaio sinterizzato | Sintered steel wear plate<br>Gleitplatte Stahl mit Sintergleitfläche<br>Piastra guida in acciaio sinterizzato | Sintered steel wear plate<br>Gleitplatte Stahl mit Sintergleitfläche<br>Piastra guida in acciaio sinterizzato |
| 1144 | 1146 | 1148 | 1150 |

| E50.55 | E53.13 | E53.21 |
|---|---|---|
|  |  |  |
| Sintered steel wear plate<br>Gleitplatte Stahl mit Sintergleitfläche<br>Piastra guida in acciaio sinterizzato | Sintered "V" driver<br>Prismenführung Stahl mit Sintergleitfläche<br>Guida a "V" in acciaio sinterizzato | Sintered "V" driver<br>Prismenführung Stahl mit Sintergleitfläche<br>Guida a "V" in acciaio sinterizzato |
| 1151 | 1152 | 1154 |

**WEAR PLATE SELF-LUBRICATING**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**



## Notes

**Material:** Bronze + Graphite
**HB** > 190



STOCK

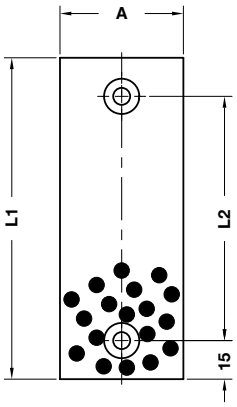
WEB

| ORDER EXAMPLE | Art. | A=30 | H= 4 | L1=305 |
|---|---|---|---|---|
| | E40.02. | 030 | 04 | 0305 |

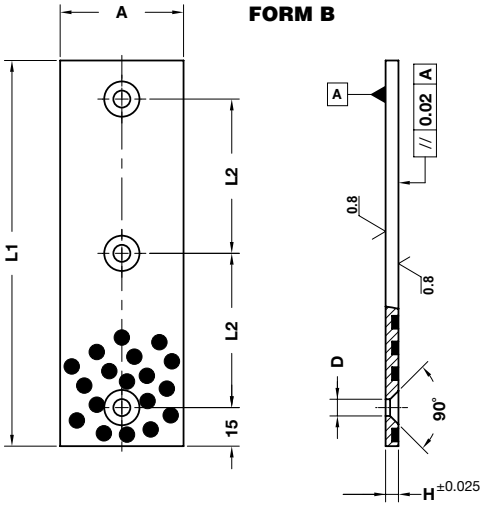
| OMCR CODE | A | H | L1 | | |
|---|---|---|---|---|---|
| | | | 305 | 605 | 1005 |
| E40.02.02004 | 20 | 4 | • | | |
| E40.02.02505 | 25 | 5 | • | | |
| E40.02.03004 | 30 | 4 | • | | |
| E40.02.03006 | 30 | 6 | • | • | |
| E40.02.03008 | 30 | 8 | • | • | |
| E40.02.03010 | 30 | 10 | • | • | • |
| E40.02.03012 | 30 | 12 | • | • | • |
| E40.02.03510 | 35 | 10 | • | • | • |
| E40.02.04005 | 40 | 5 | • | • | |
| E40.02.04006 | 40 | 6 | • | • | |
| E40.02.04008 | 40 | 8 | • | • | • |
| E40.02.04010 | 40 | 10 | • | • | • |
| E40.02.04012 | 40 | 12 | | • | • |
| E40.02.04016 | 40 | 16 | | • | • |
| E40.02.05010 | 50 | 10 | • | • | • |
| E40.02.05012 | 50 | 12 | | • | • |
| E40.02.05020 | 50 | 20 | | • | • |
| E40.02.06012 | 60 | 12 | | • | • |
| E40.02.06016 | 60 | 16 | | • | • |
| E40.02.08010 | 80 | 10 | • | • | • |
| E40.02.08012 | 80 | 12 | | • | • |
| E40.02.08016 | 80 | 16 | | • | • |
| E40.02.08020 | 80 | 20 | | • | • |
| E40.02.08025 | 80 | 25 | | • | • |
| E40.02.10016 | 100 | 16 | | • | • |
| E40.02.10020 | 100 | 20 | | • | • |
| E40.02.10025 | 100 | 25 | | • | • |
| E40.02.12520 | 125 | 20 | | • | • |
| E40.02.12525 | 125 | 25 | | • | • |
| E40.02.16025 | 160 | 25 | | • | • |

**WEAR PLATE SELF-LUBRICATING**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**

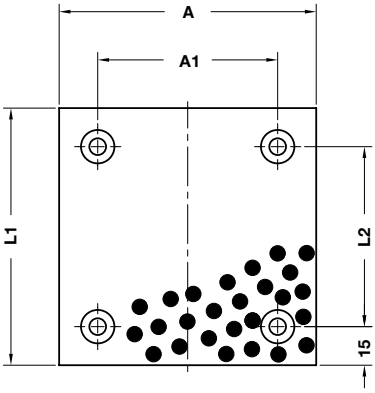
**FORM A**



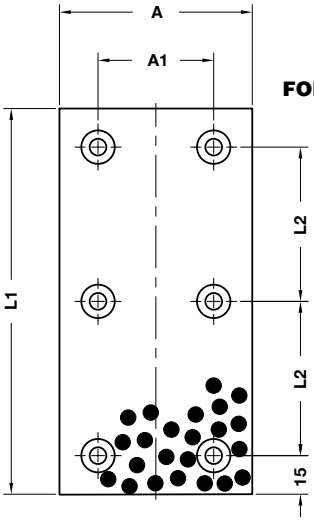

**FORM B**




**FORM C**




**FORM D**



## Notes

**Material:** Bronze + Graphite
**HB** > 190

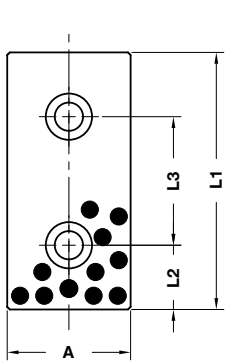


STOCK | WEB

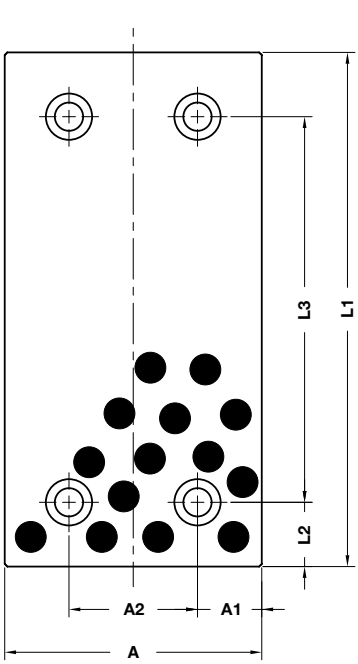
| ORDER EXAMPLE | Art. | A=48 | H=5 | L1=75 |
|---|---|---|---|---|
| | E40.04. | 048 | 05 | 075 |

| OMCR CODE | A | H | A1 | L1 | L2 | D | Form |
|---|---|---|---|---|---|---|---|
| E40.04.01805050 | 18 | 5 | - | 50 | 20 | 6,5 | A |
| E40.04.01805075 | 18 | 5 | - | 75 | 45 | 6,5 | A |
| E40.04.01805100 | 18 | 5 | - | 100 | 70 | 6,5 | A |
| E40.04.01805150 | 18 | 5 | - | 150 | 60 | 6,5 | B |
| E40.04.02805050 | 28 | 5 | - | 50 | 20 | 9 | A |
| E40.04.02805075 | 28 | 5 | - | 75 | 45 | 9 | A |
| E40.04.02805100 | 28 | 5 | - | 100 | 70 | 9 | A |
| E40.04.02805150 | 28 | 5 | - | 150 | 60 | 9 | B |
| E40.04.02805180 | 28 | 5 | - | 180 | 75 | 9 | B |
| E40.04.03805050 | 38 | 5 | - | 50 | 20 | 9 | A |
| E40.04.03805075 | 38 | 5 | - | 75 | 45 | 9 | A |
| E40.04.03805100 | 38 | 5 | - | 100 | 70 | 9 | A |
| E40.04.03805150 | 38 | 5 | - | 150 | 60 | 9 | B |
| E40.04.04805075 | 48 | 5 | - | 75 | 45 | 9 | A |
| E40.04.04805100 | 48 | 5 | - | 100 | 70 | 9 | A |
| E40.04.04805125 | 48 | 5 | - | 125 | 95 | 9 | A |
| E40.04.04805150 | 48 | 5 | - | 150 | 60 | 9 | B |
| E40.04.07505075 | 75 | 5 | 45 | 75 | 45 | 9 | C |
| E40.04.07505100 | 75 | 5 | 45 | 100 | 70 | 9 | C |
| E40.04.07505125 | 75 | 5 | 45 | 125 | 95 | 9 | C |
| E40.04.07505150 | 75 | 5 | 45 | 150 | 60 | 9 | D |
| E40.04.10005100 | 100 | 5 | 70 | 100 | 70 | 9 | C |
| E40.04.10005125 | 100 | 5 | 70 | 125 | 95 | 9 | C |
| E40.04.10005150 | 100 | 5 | 70 | 150 | 60 | 9 | D |

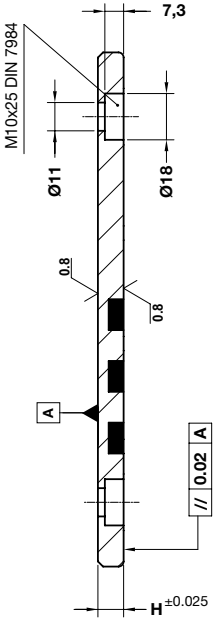
**WEAR PLATE SELF-LUBRICATING**
**FLACHLEISTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**

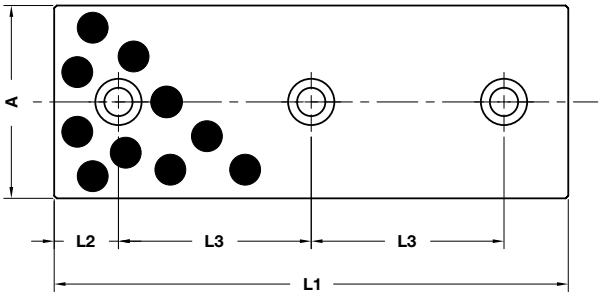



**FORM A**




**FORM B**




**FORM C**

## Notes

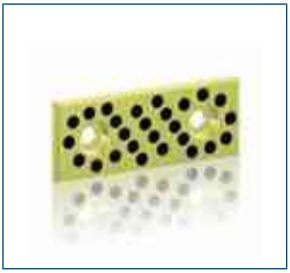
**Material:** Bronze + Graphite
**HB** > 190

STOCK

For A=28 and 38

From A=48 to A=150

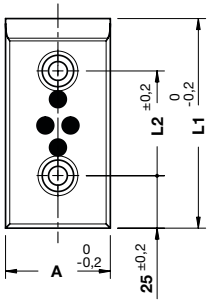
WEB



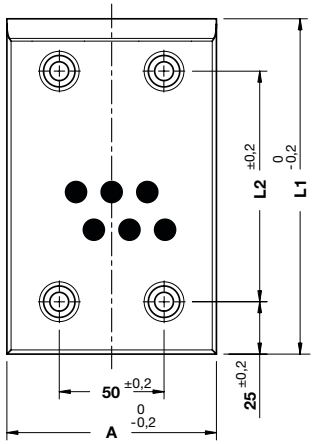
| ORDER EXAMPLE | Art. | A=48 | H=10 | L1=100 |
|---|---|---|---|---|
| | E40.05. | 048 | 10 | 100 |

| OMCR CODE | A | A1 | A2 | L1 | L2 | L3 | H | Form |
|---|---|---|---|---|---|---|---|---|
| E40.05.02810075 | 28 | - | - | 75 | 15 | 45 | 10 | A |
| E40.05.02810100 | 28 | - | - | 100 | 25 | 50 | 10 | A |
| E40.05.02810125 | 28 | - | - | 125 | 25 | 75 | 10 | A |
| E40.05.02810150 | 28 | - | - | 150 | 25 | 100 | 10 | A |
| E40.05.03810075 | 38 | - | - | 75 | 15 | 45 | 10 | A |
| E40.05.03810100 | 38 | - | - | 100 | 25 | 50 | 10 | A |
| E40.05.03810125 | 38 | - | - | 125 | 25 | 75 | 10 | A |
| E40.05.03810150 | 38 | - | - | 150 | 25 | 100 | 10 | A |
| E40.05.04810075 | 48 | - | - | 75 | 15 | 45 | 10 | A |
| E40.05.04810100 | 48 | - | - | 100 | 25 | 50 | 10 | A |
| E40.05.04810125 | 48 | - | - | 125 | 25 | 75 | 10 | A |
| E40.05.04810150 | 48 | - | - | 150 | 25 | 100 | 10 | A |
| E40.05.04810200 | 48 | - | - | 200 | 50 | 100 | 10 | A |
| E40.05.05810075 | 58 | - | - | 75 | 15 | 45 | 10 | A |
| E40.05.05810100 | 58 | - | - | 100 | 25 | 50 | 10 | A |
| E40.05.05810125 | 58 | - | - | 125 | 25 | 75 | 10 | A |
| E40.05.05810150 | 58 | - | - | 150 | 25 | 100 | 10 | A |
| E40.05.05810200 | 58 | - | - | 200 | 50 | 100 | 10 | A |
| E40.05.07510075 | 75 | - | - | 75 | 15 | 45 | 10 | A |
| E40.05.07510100 | 75 | - | - | 100 | 25 | 50 | 10 | A |
| E40.05.07510125 | 75 | - | - | 125 | 25 | 75 | 10 | A |
| E40.05.07510150 | 75 | - | - | 150 | 25 | 100 | 10 | A |
| E40.05.07510200 | 75 | - | - | 200 | 25 | 75 | 10 | C |
| E40.05.10010100 | 100 | 25 | 50 | 100 | 25 | 50 | 10 | B |
| E40.05.10010125 | 100 | 25 | 50 | 125 | 25 | 75 | 10 | B |
| E40.05.10010150 | 100 | 25 | 50 | 150 | 25 | 100 | 10 | B |
| E40.05.10010200 | 100 | 25 | 50 | 200 | 25 | 150 | 10 | B |
| E40.05.10010250 | 100 | 25 | 50 | 250 | 25 | 200 | 10 | B |
| E40.05.12510150 | 125 | 37,5 | 50 | 150 | 25 | 100 | 10 | B |
| E40.05.12510200 | 125 | 37,5 | 50 | 200 | 25 | 150 | 10 | B |
| E40.05.12510250 | 125 | 37,5 | 50 | 250 | 25 | 200 | 10 | B |
| E40.05.15010150 | 150 | 25 | 100 | 150 | 25 | 100 | 10 | B |
| E40.05.15010200 | 150 | 25 | 100 | 200 | 25 | 150 | 10 | B |

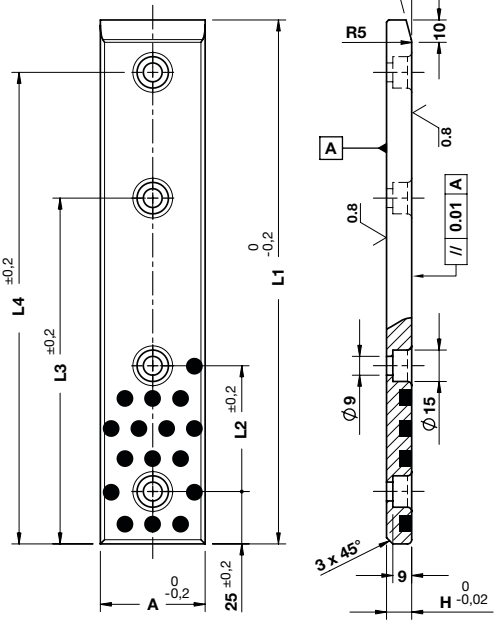
**WEAR PLATE SELF-LUBRICATING VDI 3357**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**



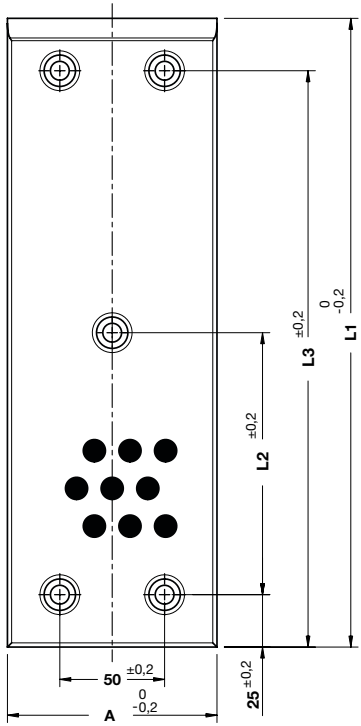

**FORM A**




**FORM B**



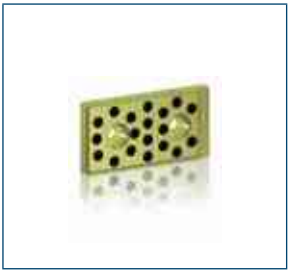

**FORM C**




**FORM D**

## Notes

**Material:** Bronze + Graphite
**HB** > 190



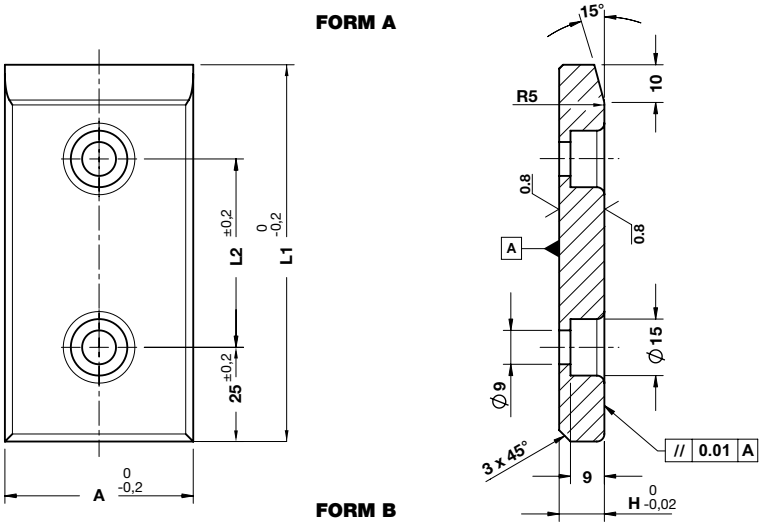
STOCK | 3D WEB

| ORDER EXAMPLE | Art. | A=50 | H=12 | L1=80 |
|---|---|---|---|---|
| | E40.06. | 050 | 12 | 080 |

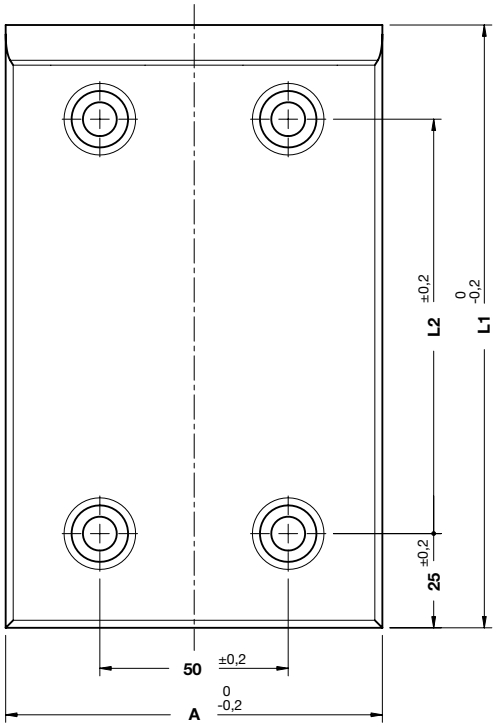
| OMCR CODE | A | H | L1 | L2 | L3 | L4 | FORM |
|---|---|---|---|---|---|---|---|
| E40.06.03012080 | 30 | 12 | 80 | 30 | - | - | A |
| E40.06.03012100 | 30 | 12 | 100 | 50 | - | - | A |
| E40.06.03012125 | 30 | 12 | 125 | 75 | - | - | A |
| E40.06.03012160 | 30 | 12 | 160 | 110 | - | - | A |
| E40.06.03012200 | 30 | 12 | 200 | 150 | - | - | A |
| E40.06.04012080 | 40 | 12 | 80 | 30 | - | - | A |
| E40.06.04012100 | 40 | 12 | 100 | 50 | - | - | A |
| E40.06.04012125 | 40 | 12 | 125 | 75 | - | - | A |
| E40.06.04012160 | 40 | 12 | 160 | 110 | - | - | A |
| E40.06.04012200 | 40 | 12 | 200 | 150 | - | - | A |
| E40.06.05012080 | 50 | 12 | 80 | 30 | - | - | A |
| E40.06.05012100 | 50 | 12 | 100 | 50 | - | - | A |
| E40.06.05012125 | 50 | 12 | 125 | 75 | - | - | A |
| E40.06.05012160 | 50 | 12 | 160 | 110 | - | - | A |
| E40.06.05012200 | 50 | 12 | 200 | 150 | - | - | A |
| E40.06.05012250 | 50 | 12 | 250 | 60 | 165 | 225 | C |
| E40.06.05012300 | 50 | 12 | 300 | 80 | 195 | 275 | C |
| E40.06.05012350 | 50 | 12 | 350 | 100 | 225 | 325 | C |
| E40.06.05012400 | 50 | 12 | 400 | 120 | 255 | 375 | C |
| E40.06.06012080 | 60 | 12 | 80 | 30 | - | - | A |
| E40.06.06012100 | 60 | 12 | 100 | 50 | - | - | A |
| E40.06.06012125 | 60 | 12 | 125 | 75 | - | - | A |
| E40.06.06012160 | 60 | 12 | 160 | 110 | - | - | A |
| E40.06.06012200 | 60 | 12 | 200 | 150 | - | - | A |
| E40.06.08012080 | 80 | 12 | 80 | 30 | - | - | A |
| E40.06.08012100 | 80 | 12 | 100 | 50 | - | - | A |
| E40.06.08012125 | 80 | 12 | 125 | 75 | - | - | A |
| E40.06.08012160 | 80 | 12 | 160 | 110 | - | - | A |
| E40.06.08012200 | 80 | 12 | 200 | 150 | - | - | A |
| E40.06.10012125 | 100 | 12 | 125 | 75 | - | - | B |
| E40.06.10012160 | 100 | 12 | 160 | 110 | - | - | B |
| E40.06.10012200 | 100 | 12 | 200 | 150 | - | - | B |
| E40.06.10012250 | 100 | 12 | 250 | 200 | - | - | B |
| E40.06.10012300 | 100 | 12 | 300 | 125 | 275 | - | D |

**WEAR PLATE STEEL VDI 3357**
**GLEITPLATTE STAHL VDI 3357**
**PIASTRA GUIDA IN ACCIAIO VDI 3357**

**FORM A**




**FORM B**



## Notes

**Material:** 16MnCr5
**HRC:** 58÷60

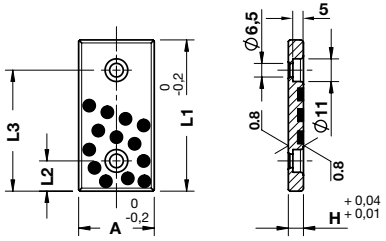


STOCK | WEB

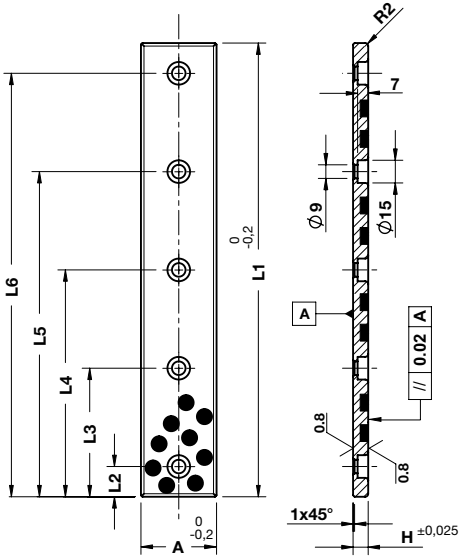
| ORDER EXAMPLE | Art. | A=50 | H=12 | L1=100 |
|---|---|---|---|---|
| | E40.07. | 050 | 12 | 100 |

| OMCR CODE | A | H | L1 | L2 | FORM |
|---|---|---|---|---|---|
| E40.07.03012080 | 30 | 12 | 80 | 30 | A |
| E40.07.03012100 | 30 | 12 | 100 | 50 | A |
| E40.07.03012125 | 30 | 12 | 125 | 75 | A |
| E40.07.03012160 | 30 | 12 | 160 | 110 | A |
| E40.07.03012200 | 30 | 12 | 200 | 150 | A |
| E40.07.04012080 | 40 | 12 | 80 | 30 | A |
| E40.07.04012100 | 40 | 12 | 100 | 50 | A |
| E40.07.04012125 | 40 | 12 | 125 | 75 | A |
| E40.07.04012160 | 40 | 12 | 160 | 110 | A |
| E40.07.04012200 | 40 | 12 | 200 | 150 | A |
| E40.07.05012080 | 50 | 12 | 80 | 30 | A |
| E40.07.05012100 | 50 | 12 | 100 | 50 | A |
| E40.07.05012125 | 50 | 12 | 125 | 75 | A |
| E40.07.05012160 | 50 | 12 | 160 | 110 | A |
| E40.07.05012180 | 50 | 12 | 180 | 130 | A |
| E40.07.05012200 | 50 | 12 | 200 | 150 | A |
| E40.07.06012080 | 60 | 12 | 80 | 30 | A |
| E40.07.06012100 | 60 | 12 | 100 | 50 | A |
| E40.07.06012125 | 60 | 12 | 125 | 75 | A |
| E40.07.06012160 | 60 | 12 | 160 | 110 | A |
| E40.07.06012180 | 60 | 12 | 180 | 130 | A |
| E40.07.06012200 | 60 | 12 | 200 | 150 | A |
| E40.07.08012080 | 80 | 12 | 80 | 30 | A |
| E40.07.08012100 | 80 | 12 | 100 | 50 | A |
| E40.07.08012125 | 80 | 12 | 125 | 75 | A |
| E40.07.08012160 | 80 | 12 | 160 | 110 | A |
| E40.07.08012200 | 80 | 12 | 200 | 150 | A |
| E40.07.10012125 | 100 | 12 | 125 | 75 | B |
| E40.07.10012160 | 100 | 12 | 160 | 110 | B |
| E40.07.10012200 | 100 | 12 | 200 | 150 | B |
| E40.07.10012225 | 100 | 12 | 225 | 175 | B |
| E40.07.10012250 | 100 | 12 | 250 | 200 | B |

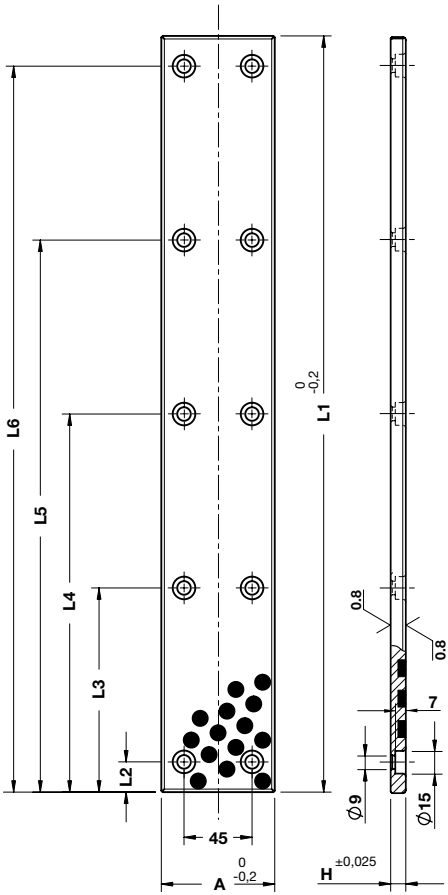
**WEAR PLATE SELF-LUBRICATING**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**




**FORM A**




**FORM B**




**FORM C**

## Notes

**Material:** Bronze + Graphite
**HB** > 190



STOCK | WEB

| ORDER EXAMPLE | Art. | A=18 | H=10 | L1=100 |
|---|---|---|---|---|
| | E40.08. | 018 | 10 | 100 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | L5 | L6 | FORM |
|---|---|---|---|---|---|---|---|---|---|
| E40.08.01810075 | 18 | 10 | 75 | 15 | 60 | - | - | - | A |
| E40.08.01810100 | 18 | 10 | 100 | 25 | 75 | - | - | - | A |
| E40.08.01810125 | 18 | 10 | 125 | 25 | 100 | - | - | - | A |
| E40.08.01810150 | 18 | 10 | 150 | 25 | 125 | - | - | - | A |
| E40.08.02810075 | 28 | 10 | 75 | 15 | 60 | - | - | - | A |
| E40.08.02810100 | 28 | 10 | 100 | 25 | 75 | - | - | - | A |
| E40.08.02810125 | 28 | 10 | 125 | 25 | 100 | - | - | - | A |
| E40.08.02810150 | 28 | 10 | 150 | 25 | 125 | - | - | - | A |
| E40.08.03510100 | 35 | 10 | 100 | 20 | 80 | - | - | - | B |
| E40.08.03510150 | 35 | 10 | 150 | 20 | 75 | 130 | - | - | B |
| E40.08.03510200 | 35 | 10 | 200 | 20 | 75 | 125 | 180 | - | B |
| E40.08.03510250 | 35 | 10 | 250 | 20 | 90 | 160 | 230 | - | B |
| E40.08.03510300 | 35 | 10 | 300 | 20 | 85 | 150 | 215 | 280 | B |
| E40.08.03510350 | 35 | 10 | 350 | 20 | 100 | 175 | 250 | 330 | B |
| E40.08.03810075 | 38 | 10 | 75 | 15 | 60 | - | - | - | A |
| E40.08.03810100 | 38 | 10 | 100 | 25 | 75 | - | - | - | A |
| E40.08.03810125 | 38 | 10 | 125 | 25 | 100 | - | - | - | A |
| E40.08.03810150 | 38 | 10 | 150 | 25 | 125 | - | - | - | A |
| E40.08.04810075 | 48 | 10 | 75 | 15 | 60 | - | - | - | A |
| E40.08.04810100 | 48 | 10 | 100 | 25 | 75 | - | - | - | A |
| E40.08.04810125 | 48 | 10 | 125 | 25 | 100 | - | - | - | A |
| E40.08.04810150 | 48 | 10 | 150 | 25 | 125 | - | - | - | A |
| E40.08.05010100 | 50 | 10 | 100 | 20 | 80 | - | - | - | B |
| E40.08.05010150 | 50 | 10 | 150 | 20 | 75 | 130 | - | - | B |
| E40.08.05010200 | 50 | 10 | 200 | 20 | 75 | 125 | 180 | - | B |
| E40.08.05010250 | 50 | 10 | 250 | 20 | 90 | 160 | 230 | - | B |
| E40.08.05010300 | 50 | 10 | 300 | 20 | 85 | 150 | 215 | 280 | B |
| E40.08.05010350 | 50 | 10 | 350 | 20 | 100 | 175 | 250 | 330 | B |
| E40.08.05010400 | 50 | 10 | 400 | 20 | 110 | 200 | 290 | 380 | B |
| E40.08.07510150 | 75 | 10 | 150 | 20 | 130 | - | - | - | C |
| E40.08.07510200 | 75 | 10 | 200 | 20 | 100 | 180 | - | - | C |
| E40.08.07510250 | 75 | 10 | 250 | 20 | 125 | 230 | - | - | C |
| E40.08.07510300 | 75 | 10 | 300 | 20 | 105 | 195 | 280 | - | C |
| E40.08.07510400 | 75 | 10 | 400 | 20 | 140 | 260 | 380 | - | C |
| E40.08.07510500 | 75 | 10 | 500 | 20 | 135 | 250 | 365 | 480 | C |

# WEAR PLATE SELF-LUBRICATING
# GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF
# PIASTRA GUIDA AUTOLUBRIFICANTE

## Notes

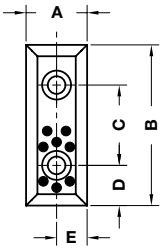
**Material:** Bronze + Graphite
**HB** > 190

STOCK

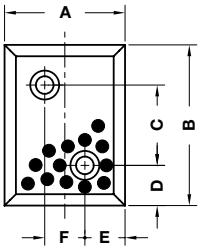
Only for "FORM A"

3D WEB

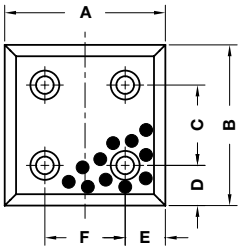




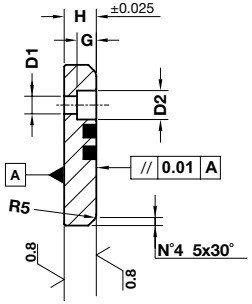

FORM A

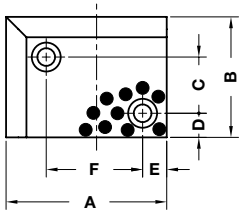



FORM B

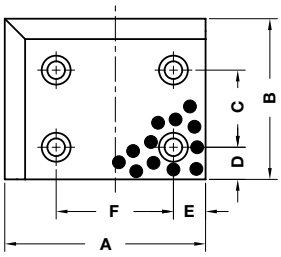



FORM C

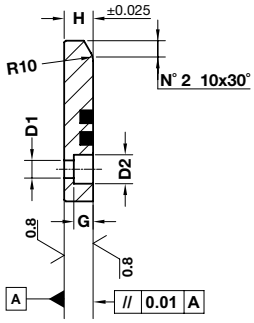



FORM D




FORM E




| ORDER EXAMPLE | Art. | A=75 | H=20 | B=100 |
|---|---|---|---|---|
| | E40.10. | 075 | 20 | 100 |

| OMCR CODE | A | B | C | D | D1 | D2 | E | F | G | H | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.10.03820100 | 38 | 100 | 50 | 25 | 11 | 18 | 19 | - | 12 | 20 | A |
| E40.10.03820150 | 38 | 150 | 100 | 25 | 11 | 18 | 19 | - | 12 | 20 | A |
| E40.10.07520100 | 75 | 100 | 50 | 25 | 11 | 18 | 25 | 25 | 12 | 20 | B |
| E40.10.07520150 | 75 | 150 | 100 | 25 | 11 | 18 | 37,5 | - | 12 | 20 | A |
| E40.10.10020100 | 100 | 100 | 50 | 25 | 11 | 18 | 25 | 50 | 12 | 20 | C |
| E40.10.10020150 | 100 | 150 | 100 | 25 | 11 | 18 | 25 | 50 | 12 | 20 | C |
| E40.10.10018075 | 100 | 75 | 35 | 15 | 11 | 18 | 15 | 60 | 12 | 18 | D |
| E40.10.12525100 | 125 | 100 | 48 | 20 | 13 | 20 | 20 | 73 | 14 | 25 | E |
| E40.10.15025125 | 150 | 125 | 68 | 25 | 13 | 20 | 25 | 93 | 14 | 25 | E |

# WEAR PLATE STEEL
# GLEITPLATTE STAHL
# PIASTRA GUIDA IN ACCIAIO

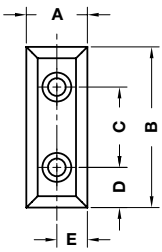
## Notes

**Material:** 16MnCr5
**HRC:** 58÷60

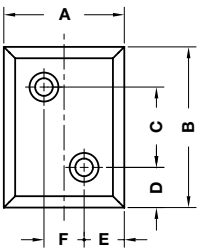
STOCK

3D WEB

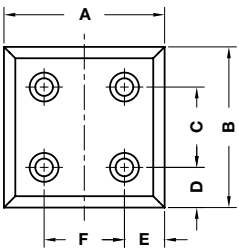




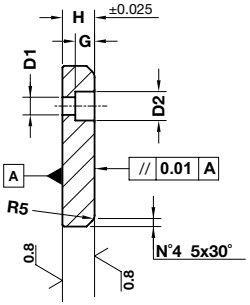

FORM A

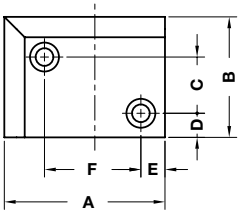



FORM B

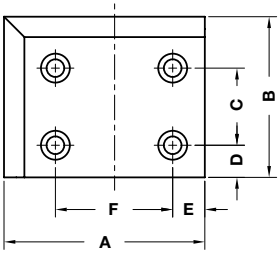



FORM C

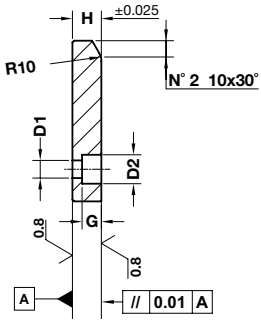



FORM D



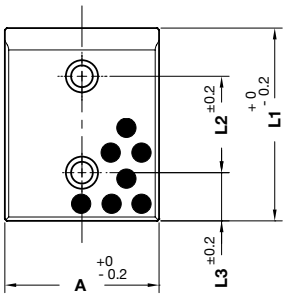

FORM E



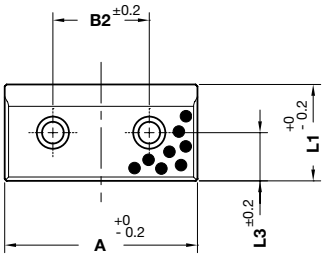

| ORDER EXAMPLE | Art. | A=75 | H=20 | B=100 |
|---|---|---|---|---|
| | E40.11. | 075 | 20 | 100 |

| OMCR CODE | A | B | C | D | D1 | D2 | E | F | G | H | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.11.03820100 | 38 | 100 | 50 | 25 | 11 | 18 | 19 | - | 12 | 20 | A |
| E40.11.03820150 | 38 | 150 | 100 | 25 | 11 | 18 | 19 | - | 12 | 20 | A |
| E40.11.07520100 | 75 | 100 | 50 | 25 | 11 | 18 | 25 | 25 | 12 | 20 | B |
| E40.11.07520150 | 75 | 150 | 100 | 25 | 11 | 18 | 37,5 | - | 12 | 20 | A |
| E40.11.10020100 | 100 | 100 | 50 | 25 | 11 | 18 | 25 | 50 | 12 | 20 | C |
| E40.11.10020150 | 100 | 150 | 100 | 25 | 11 | 18 | 25 | 50 | 12 | 20 | C |
| E40.11.10018075 | 100 | 75 | 35 | 15 | 11 | 18 | 15 | 60 | 12 | 18 | D |
| E40.11.12525100 | 125 | 100 | 48 | 20 | 13 | 20 | 20 | 73 | 14 | 25 | E |
| E40.11.15025125 | 150 | 125 | 68 | 25 | 13 | 20 | 25 | 93 | 14 | 25 | E |

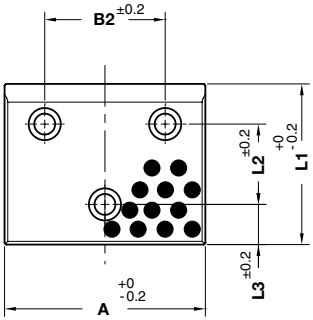
**WEAR PLATE SELF-LUBRICATING VDI 3357**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**



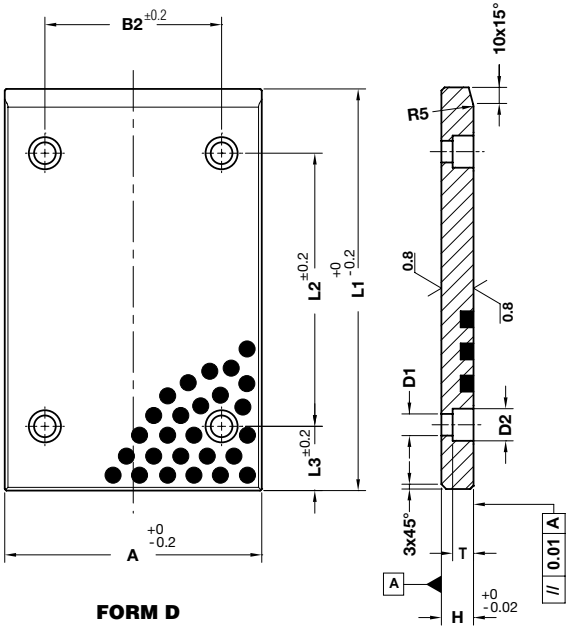

**FORM A**




**FORM B**




**FORM C**




**FORM D**

## Notes

**Material:** Bronze + Graphite
**HB** > 190

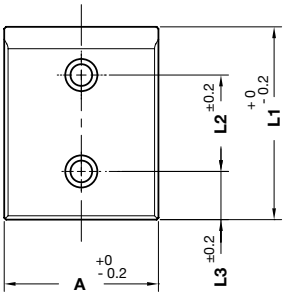


STOCK | WEB

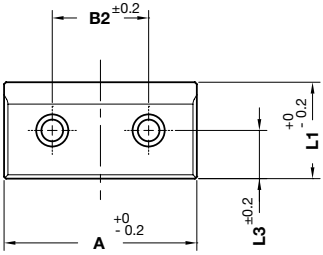
| ORDER EXAMPLE | Art. | A=125 | H=20 | L1=50 |
|---|---|---|---|---|
| | E40.12. | 125 | 20 | 050 |

| OMCR CODE | A | H | L1 | B2 | L2 | L3 | D1 | D2 | T | Form |
|---|---|---|---|---|---|---|---|---|---|---|
| E40.12.05020080 | 50 | 20 | 80 | - | 30 | 25 | 9 | 15 | 9 | A |
| E40.12.05020100 | 50 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E40.12.05020125 | 50 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E40.12.05020160 | 50 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E40.12.05020200 | 50 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E40.12.08020050 | 80 | 20 | 50 | 30 | - | 25 | 9 | 15 | 9 | B |
| E40.12.08020080 | 80 | 20 | 80 | - | 30 | 25 | 13,5 | 20 | 13 | A |
| E40.12.08020100 | 80 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E40.12.08020125 | 80 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E40.12.08020160 | 80 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E40.12.08020200 | 80 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E40.12.08020250 | 80 | 20 | 250 | - | 170 | 40 | 13,5 | 20 | 13 | A |
| E40.12.10020050 | 100 | 20 | 50 | 50 | - | 25 | 13,5 | 20 | 13 | B |
| E40.12.10020080 | 100 | 20 | 80 | 50 | - | 40 | 13,5 | 20 | 13 | B |
| E40.12.10020100 | 100 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E40.12.10020125 | 100 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E40.12.10020160 | 100 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E40.12.10020200 | 100 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E40.12.10020250 | 100 | 20 | 250 | - | 170 | 40 | 13,5 | 20 | 13 | A |
| E40.12.10020315 | 100 | 20 | 315 | - | 235 | 40 | 13,5 | 20 | 13 | A |
| E40.12.12520050 | 125 | 20 | 50 | 75 | - | 25 | 13,5 | 20 | 13 | B |
| E40.12.12520080 | 125 | 20 | 80 | 75 | - | 40 | 13,5 | 20 | 13 | B |
| E40.12.12520100 | 125 | 20 | 100 | 75 | 50 | 25 | 13,5 | 20 | 13 | C |
| E40.12.12520125 | 125 | 20 | 125 | 75 | 75 | 25 | 13,5 | 20 | 13 | C |
| E40.12.12520160 | 125 | 20 | 160 | 75 | 110 | 25 | 13,5 | 20 | 13 | C |
| E40.12.12520200 | 125 | 20 | 200 | 75 | 150 | 25 | 13,5 | 20 | 13 | C |
| E40.12.12520250 | 125 | 20 | 250 | 75 | 170 | 40 | 13,5 | 20 | 13 | C |
| E40.12.12520315 | 125 | 20 | 315 | 75 | 235 | 40 | 13,5 | 20 | 13 | C |
| E40.12.16020050 | 160 | 20 | 50 | 110 | - | 25 | 13,5 | 20 | 13 | B |
| E40.12.16020080 | 160 | 20 | 80 | 110 | - | 40 | 13,5 | 20 | 13 | B |
| E40.12.16020100 | 160 | 20 | 100 | 110 | 50 | 25 | 13,5 | 20 | 13 | C |
| E40.12.16020125 | 160 | 20 | 125 | 110 | 75 | 25 | 13,5 | 20 | 13 | C |
| E40.12.16020160 | 160 | 20 | 160 | 110 | 110 | 25 | 13,5 | 20 | 13 | C |
| E40.12.16020200 | 160 | 20 | 200 | 110 | 150 | 25 | 13,5 | 20 | 13 | C |
| E40.12.16020250 | 160 | 20 | 250 | 110 | 170 | 40 | 13,5 | 20 | 13 | D |
| E40.12.16020315 | 160 | 20 | 315 | 110 | 235 | 40 | 13,5 | 20 | 13 | D |

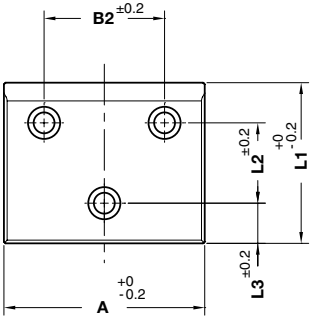
**WEAR PLATE STEEL VDI 3357**
**GLEITPLATTE STAHL VDI 3357**
**PIASTRA GUIDA IN ACCIAIO VDI 3357**



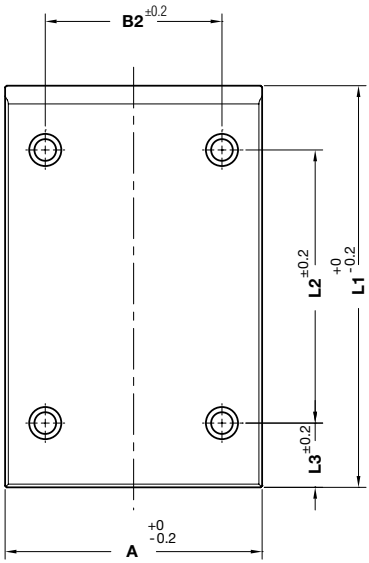

**FORM A**



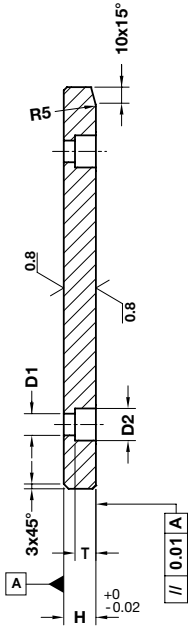

**FORM B**




**FORM C**




**FORM D**



## Notes

**Material:** 16MnCr5
**HRC:** 58÷60

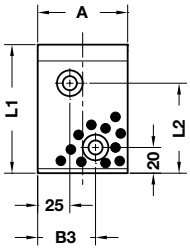


STOCK | WEB

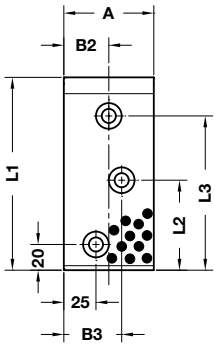
| ORDER EXAMPLE | Art. | A=125 | H=20 | L1=50 |
|---|---|---|---|---|
| | E40.13. | 125 | 20 | 050 |

| OMCR CODE | A | H | L1 | B2 | L2 | L3 | D1 | D2 | T | Form |
|---|---|---|---|---|---|---|---|---|---|---|
| E40.13.05020080 | 50 | 20 | 80 | - | 30 | 25 | 9 | 15 | 9 | A |
| E40.13.05020100 | 50 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E40.13.05020125 | 50 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E40.13.05020160 | 50 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E40.13.05020200 | 50 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E40.13.08020050 | 80 | 20 | 50 | 30 | - | 25 | 9 | 15 | 9 | B |
| E40.13.08020080 | 80 | 20 | 80 | - | 30 | 25 | 13,5 | 20 | 13 | A |
| E40.13.08020100 | 80 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E40.13.08020125 | 80 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E40.13.08020160 | 80 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E40.13.08020200 | 80 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E40.13.08020250 | 80 | 20 | 250 | - | 170 | 40 | 13,5 | 20 | 13 | A |
| E40.13.10020050 | 100 | 20 | 50 | 50 | - | 25 | 13,5 | 20 | 13 | B |
| E40.13.10020080 | 100 | 20 | 80 | 50 | - | 40 | 13,5 | 20 | 13 | B |
| E40.13.10020100 | 100 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E40.13.10020125 | 100 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E40.13.10020160 | 100 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E40.13.10020200 | 100 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E40.13.10020250 | 100 | 20 | 250 | - | 170 | 40 | 13,5 | 20 | 13 | A |
| E40.13.10020315 | 100 | 20 | 315 | - | 235 | 40 | 13,5 | 20 | 13 | A |
| E40.13.12520050 | 125 | 20 | 50 | 75 | - | 25 | 13,5 | 20 | 13 | B |
| E40.13.12520080 | 125 | 20 | 80 | 75 | - | 40 | 13,5 | 20 | 13 | B |
| E40.13.12520100 | 125 | 20 | 100 | 75 | 50 | 25 | 13,5 | 20 | 13 | C |
| E40.13.12520125 | 125 | 20 | 125 | 75 | 75 | 25 | 13,5 | 20 | 13 | C |
| E40.13.12520160 | 125 | 20 | 160 | 75 | 110 | 25 | 13,5 | 20 | 13 | C |
| E40.13.12520200 | 125 | 20 | 200 | 75 | 150 | 25 | 13,5 | 20 | 13 | C |
| E40.13.12520250 | 125 | 20 | 250 | 75 | 170 | 40 | 13,5 | 20 | 13 | C |
| E40.13.12520315 | 125 | 20 | 315 | 75 | 235 | 40 | 13,5 | 20 | 13 | C |
| E40.13.16020050 | 160 | 20 | 50 | 110 | - | 25 | 13,5 | 20 | 13 | B |
| E40.13.16020080 | 160 | 20 | 80 | 110 | - | 40 | 13,5 | 20 | 13 | B |
| E40.13.16020100 | 160 | 20 | 100 | 110 | 50 | 25 | 13,5 | 20 | 13 | C |
| E40.13.16020125 | 160 | 20 | 125 | 110 | 75 | 25 | 13,5 | 20 | 13 | C |
| E40.13.16020160 | 160 | 20 | 160 | 110 | 110 | 25 | 13,5 | 20 | 13 | C |
| E40.13.16020200 | 160 | 20 | 200 | 110 | 150 | 25 | 13,5 | 20 | 13 | C |
| E40.13.16020250 | 160 | 20 | 250 | 110 | 170 | 40 | 13,5 | 20 | 13 | D |
| E40.13.16020315 | 160 | 20 | 315 | 110 | 235 | 40 | 13,5 | 20 | 13 | D |

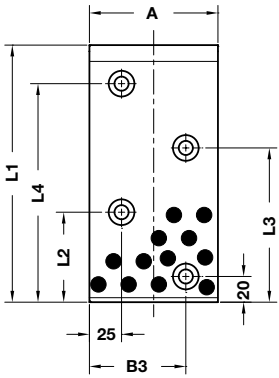
**WEAR PLATE SELF-LUBRICATING AFNOR**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF AFNOR**
**PIASTRA GUIDA AUTOLUBRIFICANTE AFNOR**



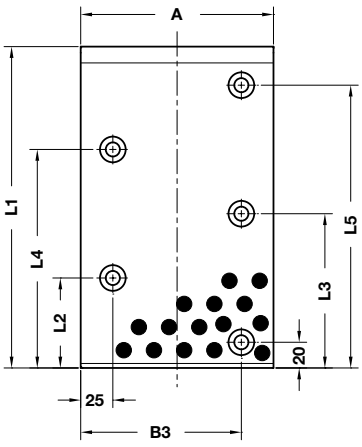

**FORM A**



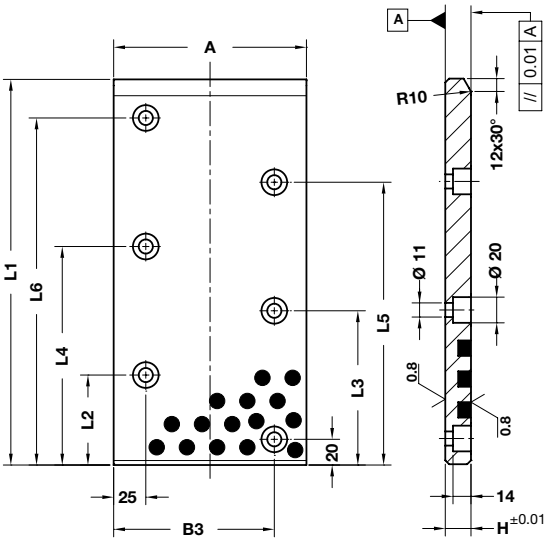

**FORM B**



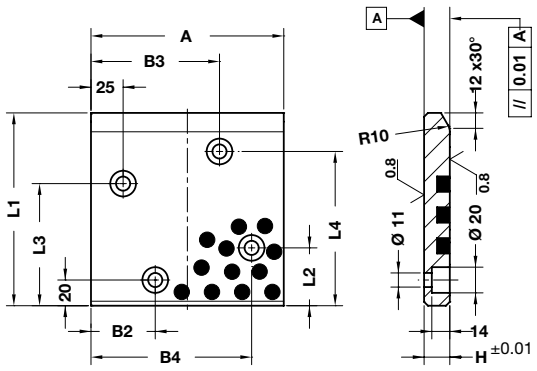

**FORM C**



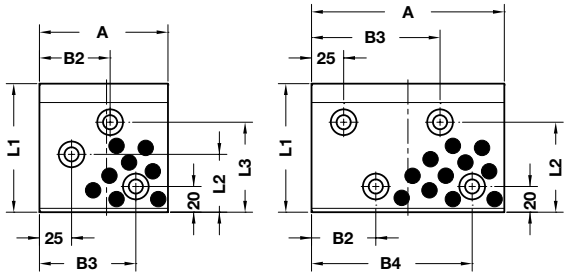

**FORM E**




**FORM F**




**FORM D**




**FORM G** **FORM H**



STOCK | WEB

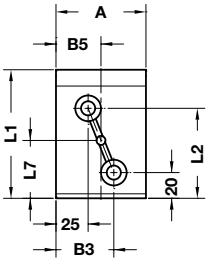
## Notes

**Material:** Bronze + Graphite
**HB** > 190

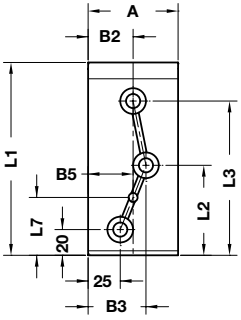
| ORDER EXAMPLE | Art. | A=100 | H=20 | L1=150 |
|---|---|---|---|---|
| | E40.14. | 100 | 20 | 150 |

| OMCR CODE | A | H | L1 | B2 | B3 | B4 | L2 | L3 | L4 | L5 | L6 | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.14.07020100 | 70 | 20 | 100 | - | 45 | - | 70 | - | - | - | - | A |
| E40.14.07020150 | 70 | 20 | 150 | 35 | 45 | - | 70 | 120 | - | - | - | B |
| E40.14.07020200 | 70 | 20 | 200 | - | 45 | - | 70 | 120 | 170 | - | - | C |
| E40.14.10020100 | 100 | 20 | 100 | 55 | 75 | - | 45 | 70 | - | - | - | G |
| E40.14.10020150 | 100 | 20 | 150 | - | 75 | - | 45 | 95 | 120 | - | - | D |
| E40.14.10020200 | 100 | 20 | 200 | - | 75 | - | 70 | 120 | 170 | - | - | C |
| E40.14.10020250 | 100 | 20 | 250 | - | 75 | - | 70 | 120 | 170 | 220 | - | E |
| E40.14.10020300 | 100 | 20 | 300 | - | 75 | - | 70 | 120 | 170 | 220 | 270 | F |
| E40.14.15020100 | 150 | 20 | 100 | 50 | 100 | 125 | 70 | - | - | - | - | H |
| E40.14.15020150 | 150 | 20 | 150 | 50 | 100 | 125 | 45 | 95 | 120 | - | - | D |
| E40.14.15020200 | 150 | 20 | 200 | - | 125 | - | 70 | 120 | 170 | - | - | C |
| E40.14.15020250 | 150 | 20 | 250 | - | 125 | - | 70 | 120 | 170 | 220 | - | E |
| E40.14.15020300 | 150 | 20 | 300 | - | 125 | - | 70 | 120 | 170 | 220 | 270 | F |
| E40.14.20020100 | 200 | 20 | 100 | 75 | 125 | 175 | 70 | - | - | - | - | H |

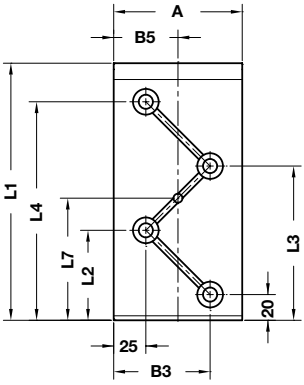
**WEAR PLATE STEEL AFNOR**
**GLEITPLATTE STAHL AFNOR**
**PIASTRA GUIDA IN ACCIAIO AFNOR**



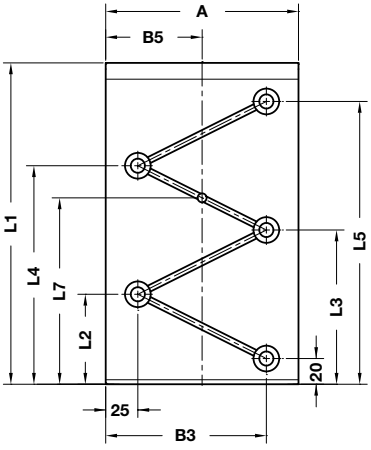

**FORM A**



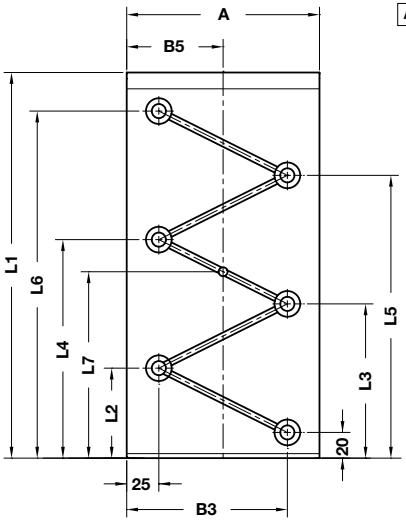

**FORM B**



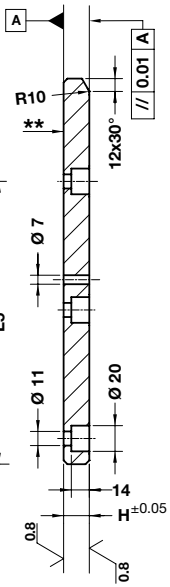

**FORM C**

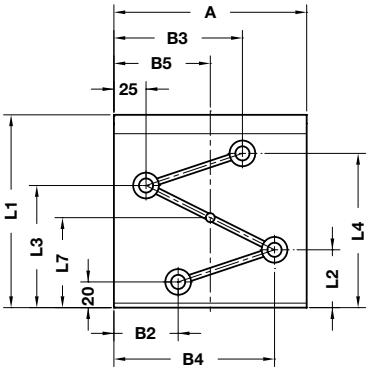



**FORM E**

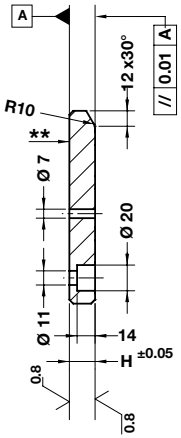



**FORM F**






FORM D



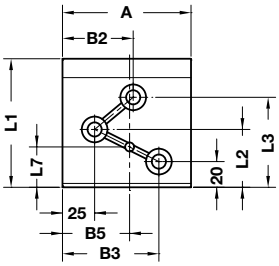



STOCK | 3D WEB

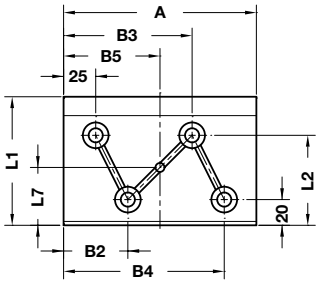
## Notes

**Material:** 16MnCr5
**HRC:** 58÷60

(**) Not hardened surface




FORM G

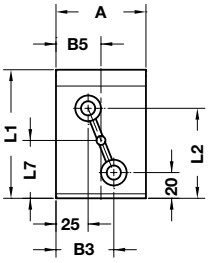



FORM H

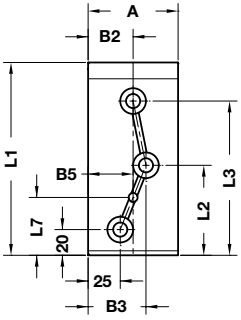
| ORDER EXAMPLE | Art. | A=100 | H=21 | L1=150 |
|---|---|---|---|---|
| | E40.15. | 100 | 21 | 150 |

| OMCR CODE | A | H | L1 | B2 | B3 | B4 | B5 | L2 | L3 | L4 | L5 | L6 | L7 | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.15.07021100 | 70 | 21 | 100 | - | 45 | - | 35 | 70 | - | - | - | - | 45 | A |
| E40.15.07021150 | 70 | 21 | 150 | 35 | 45 | - | 35 | 70 | 120 | - | - | - | 45 | B |
| E40.15.07021200 | 70 | 21 | 200 | - | 45 | - | 35 | 70 | 120 | 170 | - | - | 95 | C |
| E40.15.10021100 | 100 | 21 | 100 | 55 | 75 | - | 50 | 45 | 70 | - | - | - | 32,5 | G |
| E40.15.10021150 | 100 | 21 | 150 | - | 75 | - | 50 | 45 | 95 | 120 | - | - | 70 | D |
| E40.15.10021200 | 100 | 21 | 200 | - | 75 | - | 50 | 70 | 120 | 170 | - | - | 95 | C |
| E40.15.10021250 | 100 | 21 | 250 | - | 75 | - | 50 | 70 | 120 | 170 | 220 | - | 145 | E |
| E40.15.10021300 | 100 | 21 | 300 | - | 75 | - | 50 | 70 | 120 | 170 | 220 | 270 | 145 | F |
| E40.15.15021100 | 150 | 21 | 100 | 50 | 100 | 125 | 75 | 70 | - | - | - | - | 45 | H |
| E40.15.15021150 | 150 | 21 | 150 | 50 | 100 | 125 | 75 | 45 | 95 | 120 | - | - | 70 | D |
| E40.15.15021200 | 150 | 21 | 200 | - | 125 | - | 75 | 70 | 120 | 170 | - | - | 95 | C |
| E40.15.15021250 | 150 | 21 | 250 | - | 125 | - | 75 | 70 | 120 | 170 | 220 | - | 145 | E |
| E40.15.15021300 | 150 | 21 | 300 | - | 125 | - | 75 | 70 | 120 | 170 | 220 | 270 | 145 | F |
| E40.15.20021100 | 200 | 21 | 100 | 75 | 125 | 175 | 100 | 70 | - | - | - | - | 45 | H |

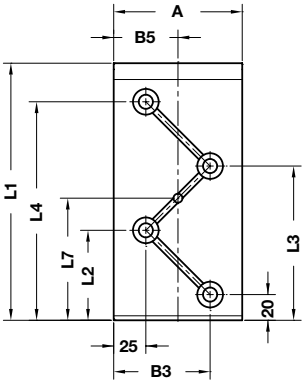
**WEAR PLATE STEEL AFNOR**
**GLEITPLATTE STAHL AFNOR**
**PIASTRA GUIDA IN ACCIAIO AFNOR**



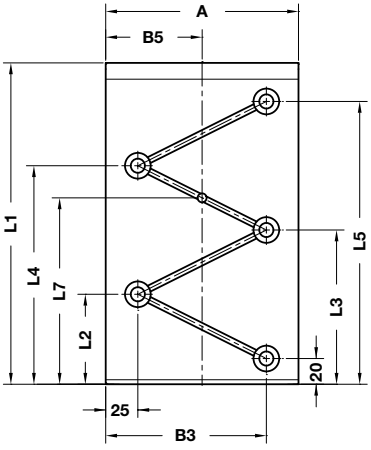

**FORM A**



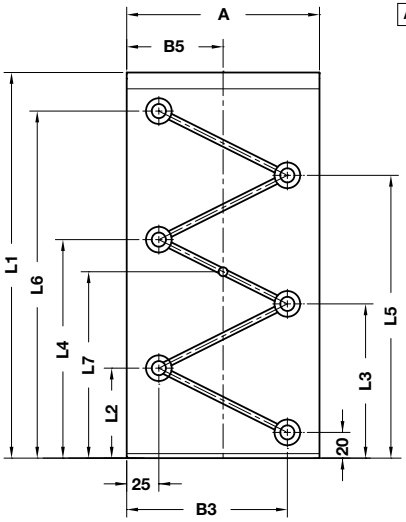

**FORM B**



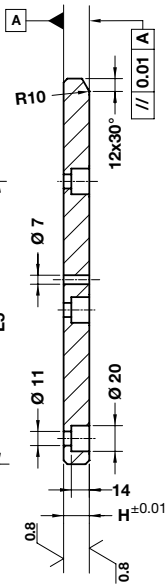

**FORM C**

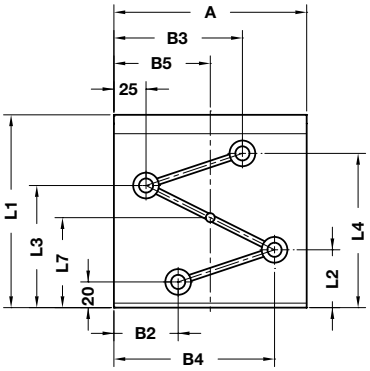



**FORM E**

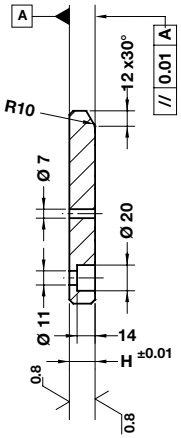



**FORM F**






FORM D

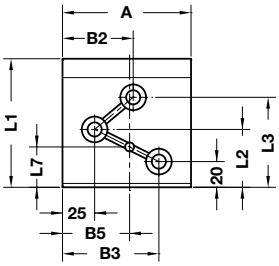




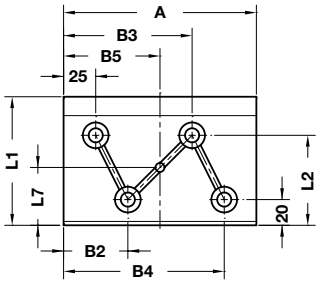

STOCK | 3D WEB

## Notes

**Material:** 16MnCr5
**HRC:** 58÷60




FORM G

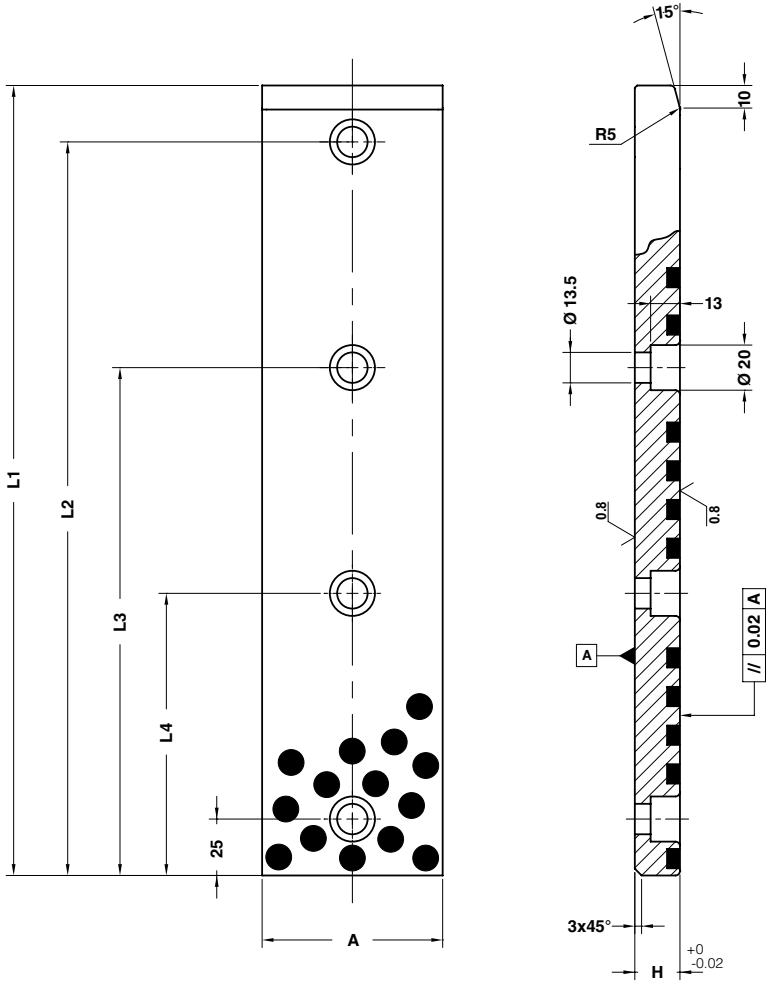



FORM H

| ORDER EXAMPLE | Art. | A=100 | H=20 | L1=150 |
|---|---|---|---|---|
| | E40.16. | 100 | 20 | 150 |

| OMCR CODE | A | H | L1 | B2 | B3 | B4 | B5 | L2 | L3 | L4 | L5 | L6 | L7 | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.16.07020100 | 70 | 20 | 100 | - | 45 | - | 35 | 70 | - | - | - | - | 45 | A |
| E40.16.07020150 | 70 | 20 | 150 | 35 | 45 | - | 35 | 70 | 120 | - | - | - | 45 | B |
| E40.16.07020200 | 70 | 20 | 200 | - | 45 | - | 35 | 70 | 120 | 170 | - | - | 95 | C |
| E40.16.10020100 | 100 | 20 | 100 | 55 | 75 | - | 50 | 45 | 70 | - | - | - | 32,5 | G |
| E40.16.10020150 | 100 | 20 | 150 | - | 75 | - | 50 | 45 | 95 | 120 | - | - | 70 | D |
| E40.16.10020200 | 100 | 20 | 200 | - | 75 | - | 50 | 70 | 120 | 170 | - | - | 95 | C |
| E40.16.10020250 | 100 | 20 | 250 | - | 75 | - | 50 | 70 | 120 | 170 | 220 | - | 145 | E |
| E40.16.10020300 | 100 | 20 | 300 | - | 75 | - | 50 | 70 | 120 | 170 | 220 | 270 | 145 | F |
| E40.16.15020100 | 150 | 20 | 100 | 50 | 100 | 125 | 75 | 70 | - | - | - | - | 45 | H |
| E40.16.15020150 | 150 | 20 | 150 | 50 | 100 | 125 | 75 | 45 | 95 | 120 | - | - | 70 | D |
| E40.16.15020200 | 150 | 20 | 200 | - | 125 | - | 75 | 70 | 120 | 170 | - | - | 95 | C |
| E40.16.15020250 | 150 | 20 | 250 | - | 125 | - | 75 | 70 | 120 | 170 | 220 | - | 145 | E |
| E40.16.15020300 | 150 | 20 | 300 | - | 125 | - | 75 | 70 | 120 | 170 | 220 | 270 | 145 | F |
| E40.16.20020100 | 200 | 20 | 100 | 75 | 125 | 175 | 100 | 70 | - | - | - | - | 45 | H |

**WEAR PLATE SELF-LUBRICATING VDI 3357**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**PIASTRA GUIDA AUTOLUBRIFICANTE VDI 3357**



## Notes

**Material:** Bronze + Graphite
**HB** > 190

Screws not included



STOCK

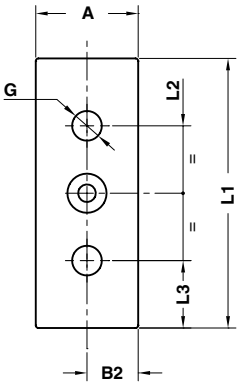
WEB

| ORDER EXAMPLE | Art. | A=80 | H=20 | L1=300 |
|---|---|---|---|---|
| | E40.18. | 080 | 20 | 300 |

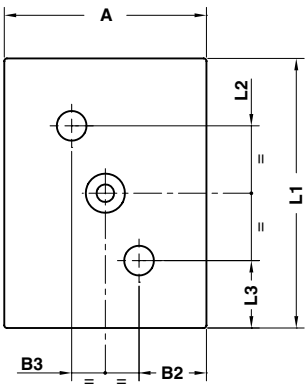
| OMCR CODE | A | L1 | H | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E40.18.05020250 | 50 | 250 | 20 | 225 | 165 | 85 |
| E40.18.05020300 | 50 | 300 | 20 | 275 | 195 | 105 |
| E40.18.05020350 | 50 | 350 | 20 | 325 | 225 | 125 |
| E40.18.05020400 | 50 | 400 | 20 | 375 | 255 | 145 |
| E40.18.05020450 | 50 | 450 | 20 | 425 | 285 | 165 |
| E40.18.05020500 | 50 | 500 | 20 | 475 | 325 | 175 |
| E40.18.08020250 | 80 | 250 | 20 | 225 | 165 | 85 |
| E40.18.08020300 | 80 | 300 | 20 | 275 | 195 | 105 |
| E40.18.08020350 | 80 | 350 | 20 | 325 | 225 | 125 |
| E40.18.08020400 | 80 | 400 | 20 | 375 | 255 | 145 |
| E40.18.08020450 | 80 | 450 | 20 | 425 | 285 | 165 |
| E40.18.08020500 | 80 | 500 | 20 | 475 | 325 | 175 |
| E40.18.10020250 | 100 | 250 | 20 | 225 | 165 | 85 |
| E40.18.10020300 | 100 | 300 | 20 | 275 | 195 | 105 |
| E40.18.10020350 | 100 | 350 | 20 | 325 | 225 | 125 |
| E40.18.10020400 | 100 | 400 | 20 | 375 | 255 | 145 |
| E40.18.10020450 | 100 | 450 | 20 | 425 | 285 | 165 |
| E40.18.10020500 | 100 | 500 | 20 | 475 | 325 | 175 |
| E40.18.12520250 | 125 | 250 | 20 | 225 | 165 | 85 |
| E40.18.12520300 | 125 | 300 | 20 | 275 | 195 | 105 |
| E40.18.12520350 | 125 | 350 | 20 | 325 | 225 | 125 |
| E40.18.12520400 | 125 | 400 | 20 | 375 | 255 | 145 |
| E40.18.12520450 | 125 | 450 | 20 | 425 | 285 | 165 |
| E40.18.12520500 | 125 | 500 | 20 | 475 | 325 | 175 |
| E40.18.16020250 | 160 | 250 | 20 | 225 | 165 | 85 |
| E40.18.16020300 | 160 | 300 | 20 | 275 | 195 | 105 |
| E40.18.16020350 | 160 | 350 | 20 | 325 | 225 | 125 |
| E40.18.16020400 | 160 | 400 | 20 | 375 | 255 | 145 |
| E40.18.16020450 | 160 | 450 | 20 | 425 | 285 | 165 |
| E40.18.16020500 | 160 | 500 | 20 | 475 | 325 | 175 |

**DISTANCE PLATE FOR WEAR PLATE**
**HÖHENAUSGLEICH FÜR GLEITPLATTE**
**DISTANZIALE PER PIASTRA**

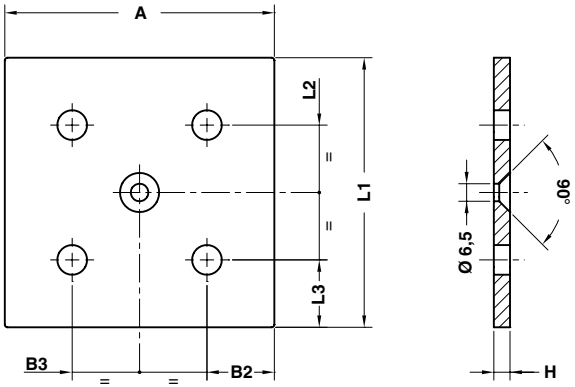
**FORM A**




**FORM B**




**FORM C**



## Notes

**Material:** St37

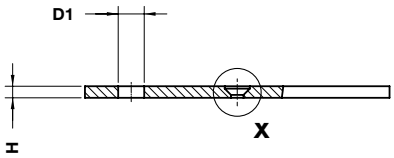


STOCK 3D WEB

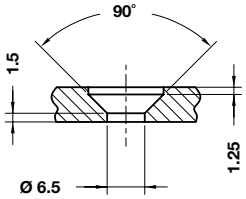
| ORDER EXAMPLE | Art. | A=75 | H=6 | L1=150 |
|---|---|---|---|---|
| | E40.20. | 075 | 6 | 150 |

| OMCR CODE | For wear plate | A | L1 | L2 | L3 | B2 | B3 | G | H | Form |
|---|---|---|---|---|---|---|---|---|---|---|
| **E40.20.0386100** | E40.10.03820100 | 38 | 100 | 50 | 25 | 19 | - | 11 | 6 | A |
| **E40.20.0386150** | E40.10.03820150 | 38 | 150 | 100 | 25 | 19 | - | 11 | 6 | A |
| **E40.20.0756100** | E40.10.07520100 | 75 | 100 | 50 | 25 | 25 | 25 | 11 | 6 | B |
| **E40.20.0756150** | E40.10.07520150 | 75 | 150 | 100 | 25 | 37,5 | - | 11 | 6 | A |
| **E40.20.1006075** | E40.10.10018075 | 100 | 75 | 35 | 15 | 15 | 60 | 11 | 6 | B |
| **E40.20.1006100** | E40.10.10020100 | 100 | 100 | 50 | 25 | 25 | 50 | 11 | 6 | C |
| **E40.20.1006150** | E40.10.10020150 | 100 | 150 | 100 | 25 | 25 | 50 | 11 | 6 | C |
| **E40.20.1256100** | E40.10.12525100 | 125 | 100 | 48 | 20 | 20 | 73 | 13 | 6 | C |
| **E40.20.1506125** | E40.10.15025125 | 150 | 125 | 68 | 25 | 25 | 93 | 13 | 6 | C |

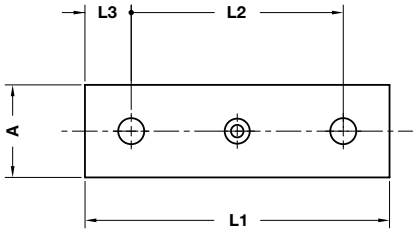
**DISTANCE PLATE FOR WEAR PLATE**
**HÖHENAUSGLEICH FÜR GLEITPLATTE**
**DISTANZIALE PER PIASTRA**



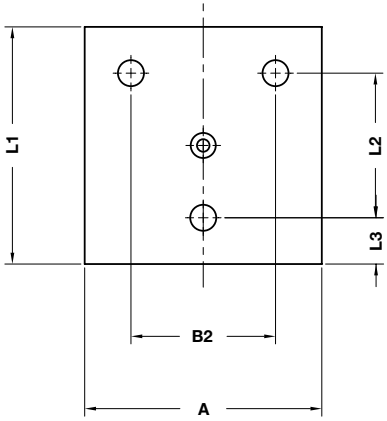

**DETAIL X**



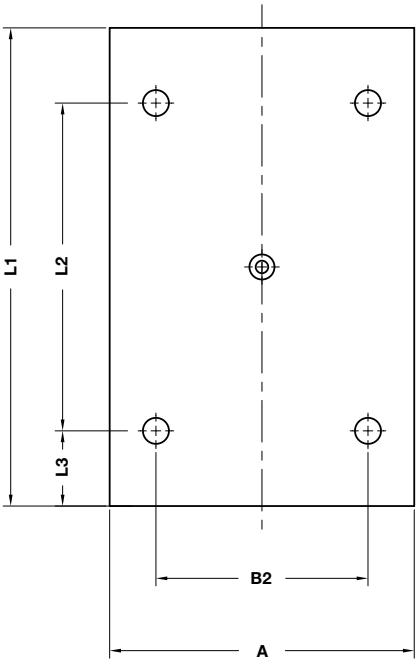

**FORM A**




**FORM B**




**FORM C**



## Notes

**Material:** St37



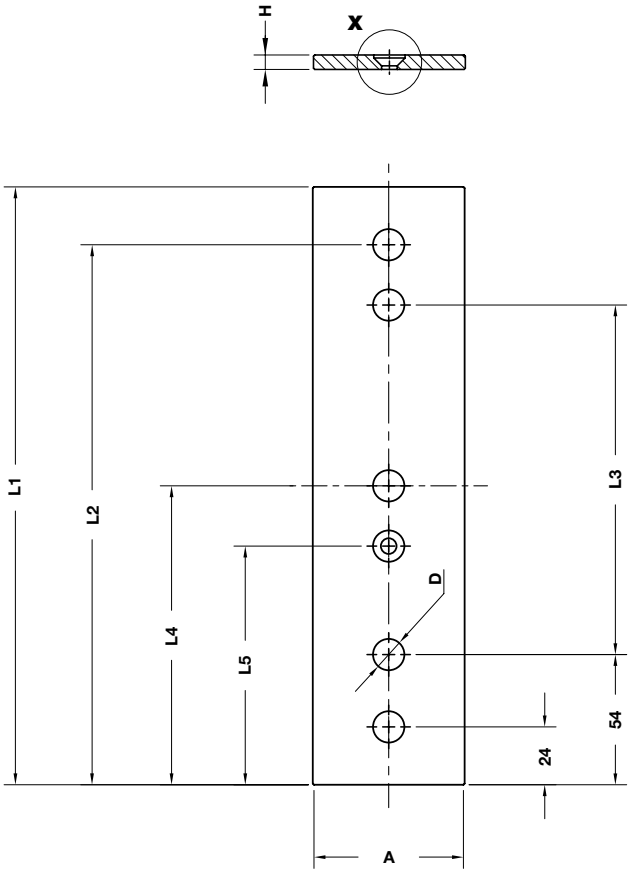
STOCK

3D WEB

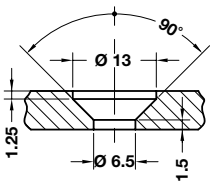
| ORDER EXAMPLE | Art. | A=78 | H=6,5 | L1=248 |
|---|---|---|---|---|
| | E40.21. | 078 | 6 | 248 |

| OMCR CODE | For wear plate | A | H | L1 | B2 | L2 | L3 | D1 | Form |
|---|---|---|---|---|---|---|---|---|---|
| E40.21.0486078 | E40.12.05020080 | 48 | 6,5 | 78 | - | 30 | 24 | 9 | A |
| | E40.12.08020050 | 48 | 6,5 | 78 | - | 30 | 24 | 9 | A |
| E40.21.0486098 | E40.12.05020100 | 48 | 6,5 | 98 | - | 50 | 24 | 13,5 | A |
| | E40.12.10020050 | 48 | 6,5 | 98 | - | 50 | 24 | 13,5 | A |
| E40.21.0486123 | E40.12.05020125 | 48 | 6,5 | 123 | - | 75 | 24 | 13,5 | A |
| | E40.12.12520050 | 48 | 6,5 | 123 | - | 75 | 24 | 13,5 | A |
| E40.21.0486158 | E40.12.05020160 | 48 | 6,5 | 158 | - | 110 | 24 | 13,5 | A |
| | E40.12.16020050 | 48 | 6,5 | 158 | - | 110 | 24 | 13,5 | A |
| E40.21.0486198 | E40.12.05020200 | 48 | 6,5 | 198 | - | 150 | 24 | 13,5 | A |
| E40.21.0786078 | E40.12.08020080 | 78 | 6,5 | 78 | - | 30 | 24 | 13,5 | A |
| E40.21.0786098 | E40.12.08020100 | 78 | 6,5 | 98 | - | 50 | 24 | 13,5 | A |
| | E40.12.10020080 | 78 | 6,5 | 98 | - | 50 | 24 | 13,5 | A |
| E40.21.0786123 | E40.12.08020125 | 78 | 6,5 | 123 | - | 75 | 24 | 13,5 | A |
| | E40.12.12520080 | 78 | 6,5 | 123 | - | 75 | 24 | 13,5 | A |
| E40.21.0786158 | E40.12.08020160 | 78 | 6,5 | 158 | - | 110 | 24 | 13,5 | A |
| | E40.12.16020080 | 78 | 6,5 | 158 | - | 110 | 24 | 13,5 | A |
| E40.21.0786198 | E40.12.08020200 | 78 | 6,5 | 198 | - | 150 | 24 | 13,5 | A |
| E40.21.0986098 | E40.12.10020100 | 98 | 6,5 | 98 | - | 50 | 24 | 13,5 | A |
| E40.21.0986123 | E40.12.10020125 | 98 | 6,5 | 123 | - | 75 | 24 | 13,5 | A |
| E40.21.0986158 | E40.12.10020160 | 98 | 6,5 | 158 | - | 110 | 24 | 13,5 | A |
| E40.21.0986198 | E40.12.10020200 | 98 | 6,5 | 198 | - | 150 | 24 | 13,5 | A |
| E40.21.0986248 | E40.12.10020250 | 98 | 6,5 | 248 | - | 170 | 39 | 13,5 | A |
| E40.21.0986313 | E40.12.10020315 | 98 | 6,5 | 313 | - | 235 | 39 | 13,5 | A |
| E40.21.1236098 | E40.12.12520100 | 123 | 6,5 | 98 | 75 | 50 | 24 | 13,5 | B |
| E40.21.1236123 | E40.12.12520125 | 123 | 6,5 | 123 | 75 | 75 | 24 | 13,5 | B |
| E40.21.1236158 | E40.12.12520160 | 123 | 6,5 | 158 | 75 | 110 | 24 | 13,5 | B |
| E40.21.1236198 | E40.12.12520200 | 123 | 6,5 | 198 | 75 | 150 | 24 | 13,5 | B |
| E40.21.1236248 | E40.12.12520250 | 123 | 6,5 | 248 | 75 | 170 | 39 | 13,5 | B |
| E40.21.1236313 | E40.12.12520315 | 123 | 6,5 | 313 | 75 | 235 | 39 | 13,5 | B |
| E40.21.1586098 | E40.12.16020100 | 158 | 6,5 | 98 | 110 | 50 | 24 | 13,5 | B |
| E40.21.1586123 | E40.12.16020125 | 158 | 6,5 | 123 | 75 | 110 | 24 | 13,5 | B |
| E40.21.1586158 | E40.12.16020160 | 158 | 6,5 | 158 | 110 | 110 | 24 | 13,5 | B |
| E40.21.1586198 | E40.12.16020200 | 158 | 6,5 | 198 | 110 | 150 | 24 | 13,5 | B |
| E40.21.1586248 | E40.12.16020250 | 158 | 6,5 | 248 | 110 | 170 | 39 | 13,5 | C |
| E40.21.1586313 | E40.12.16020315 | 158 | 6,5 | 313 | 110 | 235 | 39 | 13,5 | C |

**DISTANCE PLATE FOR "V" DRIVER**
**HÖHENAUSGLEICH FÜR PRISMENFUHRUNG**
**DISTANZIALE PER GUIDA A "V"**




**DETAIL X**



## Notes

**Material:** St37



STOCK

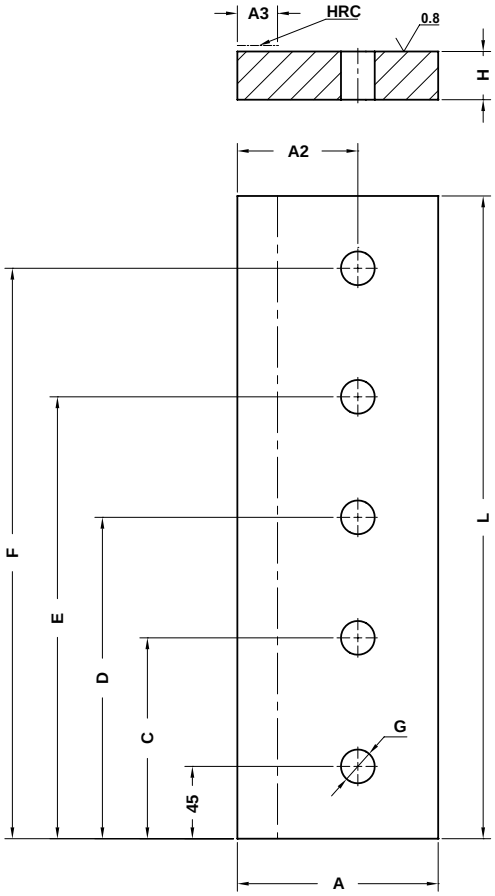
3D WEB

Sliding Elements

| ORDER EXAMPLE | Art. | A=63 | H=6,5 | L1=248 |
|---|---|---|---|---|
| | E40.22. | 063 | 6 | 248 |

| OMCR CODE | For "V" driver | A | H | L1 | D | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|
| **E40.22.0636148** | E43.13.06544150 | 63 | 6,5 | 148 | 13 | 124 | 45 | - | 74 |
| **E40.22.0636198** | E43.13.06544200 | 63 | 6,5 | 198 | 13 | 174 | 95 | - | 99 |
| **E40.22.0636248** | E43.13.06544250 | 63 | 6,5 | 248 | 13 | 224 | 145 | 124 | 99 |
| **E40.22.0636298** | E43.13.06544300 | 63 | 6,5 | 298 | 13 | 274 | 195 | 149 | 124 |
| **E40.22.1236148** | E43.21.12552150 | 123 | 6,5 | 148 | 17 | 124 | 45 | - | 74 |
| **E40.22.1236198** | E43.21.12552200 | 123 | 6,5 | 198 | 17 | 174 | 95 | - | 99 |
| **E40.22.1236248** | E43.21.12552250 | 123 | 6,5 | 248 | 17 | 224 | 145 | 124 | 99 |
| **E40.22.1236298** | E43.21.12552300 | 123 | 6,5 | 298 | 17 | 274 | 195 | 149 | 124 |

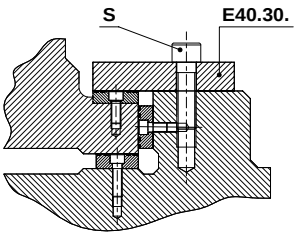
**WEAR PLATE STEEL**
**GLEITPLATTE STAHL**
**PIASTRA GUIDA IN ACCIAIO**



## Notes

**Material:** CK45
**HRC:** 58÷60

## Application example






10

3D

WEB

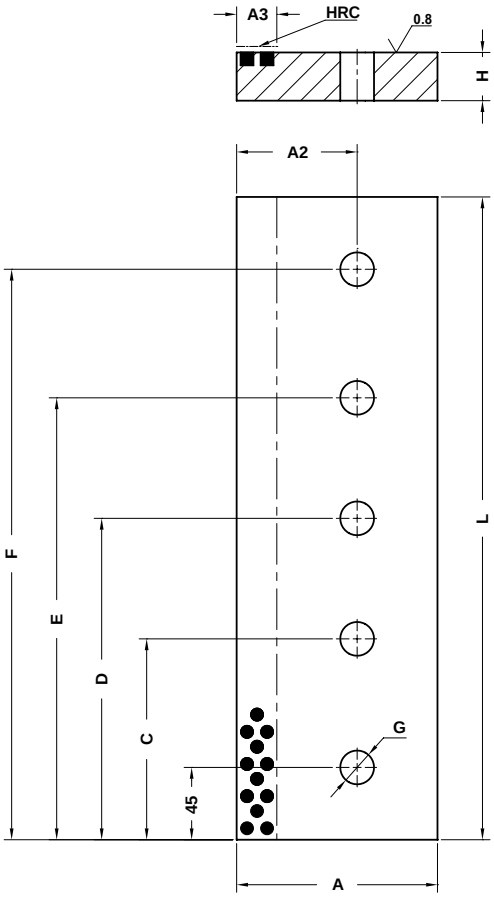


ORDER EXAMPLE

| Art. | A=75 | H=25 | L1=200 |
|---|---|---|---|
| E40.30. | 075 | 25 | 200 |

| OMCR CODE | A | A2 | A3 | L | H | C | D | E | F | G | S |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E40.30.07525160** | 75 | 40 | 25 | 160 | 25 | - | - | - | 115 | 17 | Nr.2 - M16x60 |
| **E40.30.07525200** | 75 | 40 | 25 | 200 | 25 | - | - | - | 155 | 17 | Nr.2 - M16x60 |
| **E40.30.07525250** | 75 | 40 | 25 | 250 | 25 | - | 125 | - | 205 | 17 | Nr.3 - M16x60 |
| **E40.30.10025160** | 100 | 60 | 30 | 160 | 25 | - | - | - | 115 | 17 | Nr.2 - M16x60 |
| **E40.30.10025200** | 100 | 60 | 30 | 200 | 25 | - | - | - | 155 | 17 | Nr.2 - M16x60 |
| **E40.30.10025250** | 100 | 60 | 30 | 250 | 25 | - | 125 | - | 205 | 17 | Nr.3 - M16x60 |
| **E40.30.10025400** | 100 | 60 | 30 | 400 | 25 | 125 | 200 | 275 | 355 | 17 | Nr.5 - M16x60 |
| **E40.30.10030160** | 100 | 60 | 30 | 160 | 30 | - | - | - | 115 | 21 | Nr.2 - M20x70 |
| **E40.30.10030200** | 100 | 60 | 30 | 200 | 30 | - | - | - | 155 | 21 | Nr.2 - M20x70 |
| **E40.30.10030250** | 100 | 60 | 30 | 250 | 30 | - | 125 | - | 205 | 21 | Nr.3 - M20x70 |
| **E40.30.10030400** | 100 | 60 | 30 | 400 | 30 | 125 | 200 | 275 | 355 | 21 | Nr.5 - M20x70 |
| **E40.30.12530160** | 125 | 75 | 30 | 160 | 30 | - | - | - | 115 | 21 | Nr.2 - M20x70 |
| **E40.30.12530200** | 125 | 75 | 30 | 200 | 30 | - | - | - | 155 | 21 | Nr.2 - M20x70 |
| **E40.30.12530250** | 125 | 75 | 30 | 250 | 30 | - | 125 | - | 205 | 21 | Nr.3 - M20x70 |
| **E40.30.12530400** | 125 | 75 | 30 | 400 | 30 | 125 | 200 | 275 | 355 | 21 | Nr.5 - M20x70 |

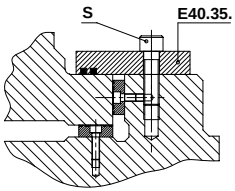
**WEAR PLATE STEEL SELF-LUBRICATING**
**DECKLEISTE STAHL MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA IN ACCIAIO AUTOLUBRIFICANTE**



## Notes

**Material:** CK45 + Graphite
**HRC:** 58÷60

## Application example






10

3D

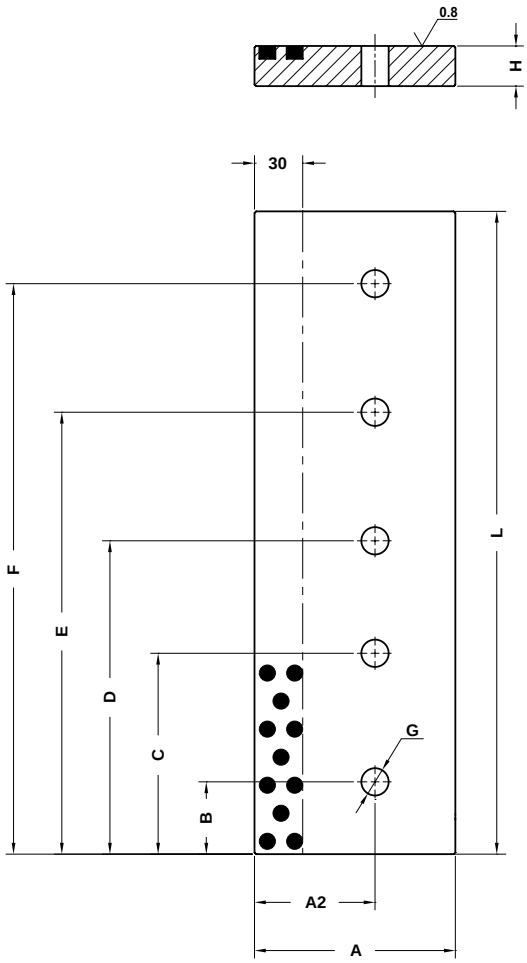
WEB



| ORDER EXAMPLE | Art. | A=75 | H=25 | L1=200 |
|---|---|---|---|---|
| | E40.35. | 075 | 25 | 200 |

| OMCR CODE | A | A2 | A3 | L | H | C | D | E | F | G | S |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.35.07525160 | 75 | 40 | 25 | 160 | 25 | - | - | - | 115 | 17 | Nr.2 - M16x60 |
| E40.35.07525200 | 75 | 40 | 25 | 200 | 25 | - | - | - | 155 | 17 | Nr.2 - M16x60 |
| E40.35.07525250 | 75 | 40 | 25 | 250 | 25 | - | 125 | - | 205 | 17 | Nr.3 - M16x60 |
| E40.35.10025160 | 100 | 60 | 30 | 160 | 25 | - | - | - | 115 | 17 | Nr.2 - M16x60 |
| E40.35.10025200 | 100 | 60 | 30 | 200 | 25 | - | - | - | 155 | 17 | Nr.2 - M16x60 |
| E40.35.10025250 | 100 | 60 | 30 | 250 | 25 | - | 125 | - | 205 | 17 | Nr.3 - M16x60 |
| E40.35.10025400 | 100 | 60 | 30 | 400 | 25 | 125 | 200 | 275 | 355 | 17 | Nr.5 - M16x60 |
| E40.35.10030160 | 100 | 60 | 30 | 160 | 30 | - | - | - | 115 | 21 | Nr.2 - M20x70 |
| E40.35.10030200 | 100 | 60 | 30 | 200 | 30 | - | - | - | 155 | 21 | Nr.2 - M20x70 |
| E40.35.10030250 | 100 | 60 | 30 | 250 | 30 | - | 125 | - | 205 | 21 | Nr.3 - M20x70 |
| E40.35.10030400 | 100 | 60 | 30 | 400 | 30 | 125 | 200 | 275 | 355 | 21 | Nr.5 - M20x70 |
| E40.35.12530160 | 125 | 75 | 30 | 160 | 30 | - | - | - | 115 | 21 | Nr.2 - M20x70 |
| E40.35.12530200 | 125 | 75 | 30 | 200 | 30 | - | - | - | 155 | 21 | Nr.2 - M20x70 |
| E40.35.12530250 | 125 | 75 | 30 | 250 | 30 | - | 125 | - | 205 | 21 | Nr.3 - M20x70 |
| E40.35.12530400 | 125 | 75 | 30 | 400 | 30 | 125 | 200 | 275 | 355 | 21 | Nr.5 - M20x70 |

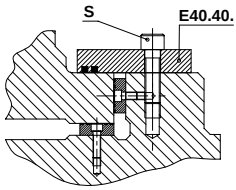
**WEAR PLATE SELF-LUBRICATING**
**GLEITPLATTE BRONZE MIT FESTSCHMIERSTOFF**
**PIASTRA GUIDA AUTOLUBRIFICANTE**



## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example





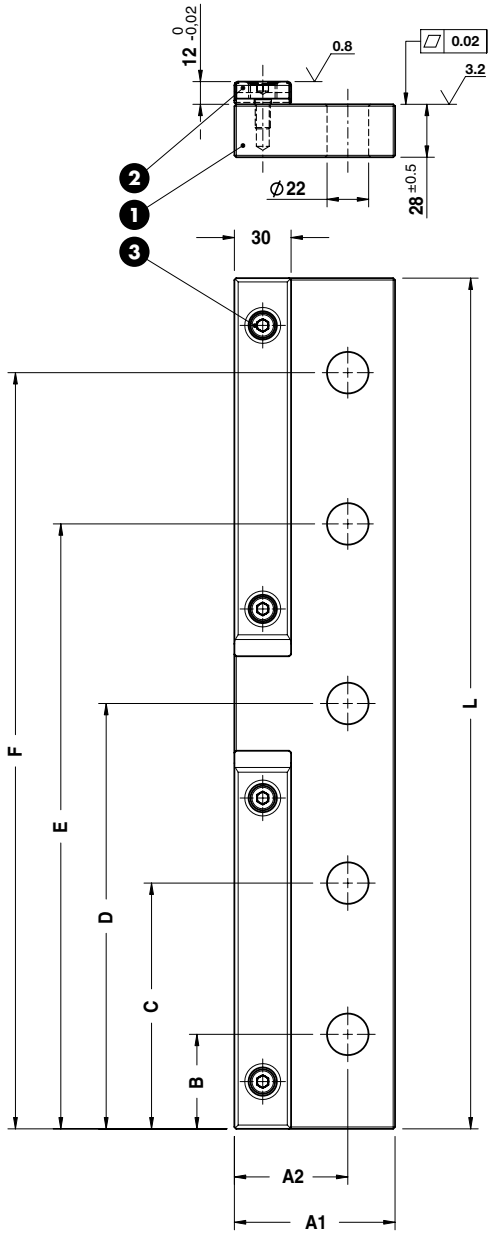

STOCK

WEB

| ORDER EXAMPLE | Art. | A=85 | H=30 | L=200 |
|---|---|---|---|---|
| | E40.40. | 085 | 30 | 200 |

| OMCR CODE | A | A2 | L | H | B | C | D | E | F | G | S |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E40.40.08530160 | 85 | 60 | 160 | 30 | 45 | - | - | - | 115 | 21 | Nr.2 - M20x70 |
| E40.40.08530200 | 85 | 60 | 200 | 30 | 45 | - | - | - | 155 | 21 | Nr.2 - M20x70 |
| E40.40.08530250 | 85 | 60 | 250 | 30 | 45 | - | 125 | - | 205 | 21 | Nr.3 - M20x70 |
| E40.40.08530300 | 85 | 60 | 300 | 30 | 45 | - | 150 | - | 255 | 21 | Nr.3 - M20x70 |
| E40.40.08530350 | 85 | 60 | 350 | 30 | 45 | - | 175 | - | 305 | 21 | Nr.3 - M20x70 |
| E40.40.08530400 | 85 | 60 | 400 | 30 | 45 | 125 | 200 | 275 | 355 | 21 | Nr.5 - M20x70 |
| E40.40.12525160 | 125 | 75 | 160 | 25 | 45 | - | - | - | 115 | 17 | Nr.2 - M16x60 |
| E40.40.12525200 | 125 | 75 | 200 | 25 | 45 | - | - | - | 155 | 17 | Nr.2 - M16x60 |
| E40.40.12525250 | 125 | 75 | 250 | 25 | 45 | - | 125 | - | 205 | 17 | Nr.3 - M16x60 |
| E40.40.12525400 | 125 | 75 | 400 | 25 | 45 | 125 | 200 | 275 | 355 | 17 | Nr.5 - M16x60 |
| E40.40.12530160 | 125 | 75 | 160 | 30 | 45 | - | - | - | 115 | 21 | Nr.2 - M20x70 |
| E40.40.12530200 | 125 | 75 | 200 | 30 | 45 | - | - | - | 155 | 21 | Nr.2 - M20x70 |
| E40.40.12530250 | 125 | 75 | 250 | 30 | 45 | - | 125 | - | 205 | 21 | Nr.3 - M20x70 |
| E40.40.12530300 | 125 | 75 | 300 | 30 | 45 | - | 150 | - | 255 | 21 | Nr.3 - M20x70 |
| E40.40.12530350 | 125 | 75 | 350 | 30 | 45 | - | 175 | - | 305 | 21 | Nr.3 - M20x70 |
| E40.40.12530400 | 125 | 75 | 400 | 30 | 45 | 125 | 200 | 275 | 355 | 21 | Nr.5 - M20x70 |
| E40.40.12530450 | 125 | 75 | 450 | 30 | 50 | 130 | 225 | 320 | 400 | 21 | Nr.5 - M20x70 |
| E40.40.12530500 | 125 | 75 | 500 | 30 | 50 | 130 | 250 | 370 | 450 | 21 | Nr.5 - M20x70 |

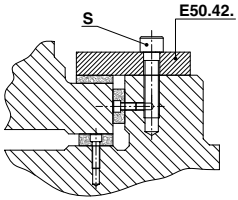
**WEAR PLATE**
**DECKLEISTE SCHIEBERFÜHRUNG**
**PIASTRA GUIDA**



## Notes

1. **Material:** 16MnCr5
2. E40.06.
3. DIN 912 M8x16

## Application example



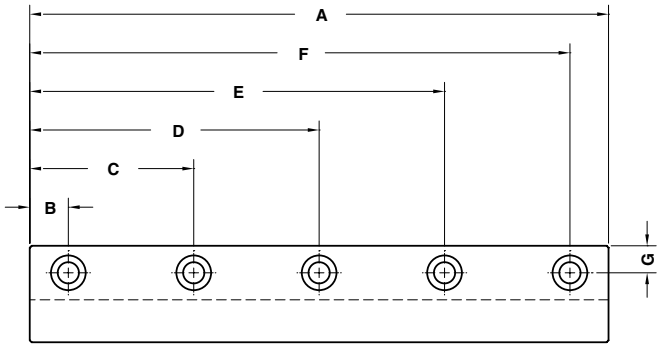


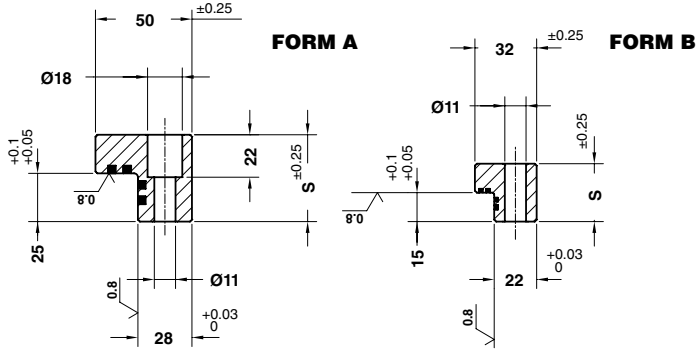

10 ... WEB

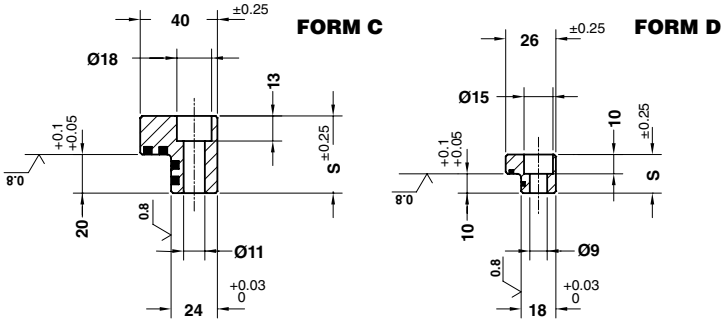
| ORDER EXAMPLE | Art. | A1=85 | L=200 |
|---|---|---|---|
| | E40.42. | 085 | 200 |

| OMCR CODE | A1 | L | A2 | B | C | D | E | F | S |
|---|---|---|---|---|---|---|---|---|---|
| E40.42.085160 | 85 | 160 | 60 | 45 | 115 | - | - | - | Nr2 - M20x60 |
| E40.42.085200 | 85 | 200 | 60 | 45 | 155 | - | - | - | Nr2 - M20x60 |
| E40.42.085250 | 85 | 250 | 60 | 45 | 125 | 205 | - | - | Nr3 - M20x60 |
| E40.42.085300 | 85 | 300 | 60 | 45 | 150 | 255 | - | - | Nr3 - M20x60 |
| E40.42.085350 | 85 | 350 | 60 | 45 | 175 | 305 | - | - | Nr3 - M20x60 |
| E40.42.085400 | 85 | 400 | 60 | 45 | 125 | 200 | 275 | 355 | Nr5 - M20x60 |
| E40.42.085450 | 85 | 450 | 60 | 50 | 130 | 225 | 320 | 400 | Nr5 - M20x60 |
| E40.42.085500 | 85 | 500 | 60 | 50 | 130 | 250 | 370 | 450 | Nr5 - M20x60 |
| E40.42.125160 | 125 | 160 | 75 | 45 | 115 | - | - | - | Nr2 - M20x60 |
| E40.42.125200 | 125 | 200 | 75 | 45 | 155 | - | - | - | Nr2 - M20x60 |
| E40.42.125250 | 125 | 250 | 75 | 45 | 125 | 205 | - | - | Nr3 - M20x60 |
| E40.42.125300 | 125 | 300 | 75 | 45 | 150 | 255 | - | - | Nr3 - M20x60 |
| E40.42.125350 | 125 | 350 | 75 | 45 | 175 | 305 | - | - | Nr3 - M20x60 |
| E40.42.125400 | 125 | 400 | 75 | 45 | 125 | 200 | 275 | 355 | Nr5 - M20x60 |
| E40.42.125450 | 125 | 450 | 75 | 50 | 130 | 225 | 320 | 400 | Nr5 - M20x60 |
| E40.42.125500 | 125 | 500 | 75 | 50 | 130 | 250 | 370 | 450 | Nr5 - M20x60 |

**ANGULAR GUIDE SELF-LUBRICATING**
**WINKELLEISTE BRONZE MIT FESTSCHMIERSTOFF**
**GUIDA ANGOLARE AUTOLUBRIFICANTE**



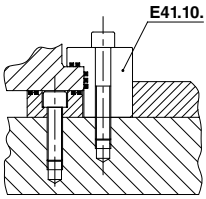



## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example





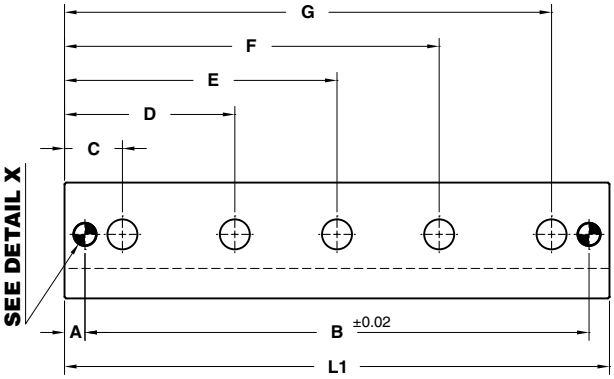

STOCK ⟺ 3D WEB

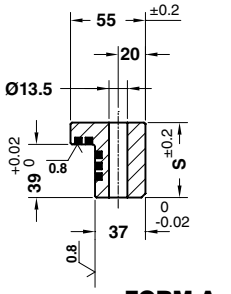


| ORDER EXAMPLE | Art. | S=30 | A=150 |
|---|---|---|---|
| | E41.10. | 30 | 150 |

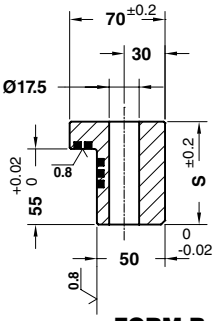
| OMCR CODE | S | A | B | C | D | E | F | G | Form |
|---|---|---|---|---|---|---|---|---|---|
| E41.10.20100 | 20 | 100 | 20 | 80 | - | - | - | 9 | D |
| E41.10.20150 | 20 | 150 | 20 | 75 | 130 | - | | 9 | D |
| E41.10.20200 | 20 | 200 | 20 | 75 | 125 | 180 | - | 9 | D |
| E41.10.30100 | 30 | 100 | 20 | 80 | - | - | - | 11 | B |
| E41.10.30150 | 30 | 150 | 20 | 75 | 130 | - | - | 11 | B |
| E41.10.30200 | 30 | 200 | 20 | 75 | 125 | 180 | - | 11 | B |
| E41.10.30250 | 30 | 250 | 20 | 90 | 160 | 230 | - | 11 | B |
| E41.10.40160 | 40 | 160 | 15 | 145 | - | - | - | 12 | C |
| E41.10.40250 | 40 | 250 | 15 | 145 | 225 | - | - | 12 | C |
| E41.10.45200 | 45 | 200 | 20 | 75 | 125 | 180 | - | 14 | A |
| E41.10.45250 | 45 | 250 | 20 | 90 | 160 | 230 | - | 14 | A |
| E41.10.45300 | 45 | 300 | 20 | 85 | 150 | 215 | 280 | 14 | A |
| E41.10.45350 | 45 | 350 | 20 | 100 | 175 | 250 | 330 | 14 | A |

**ANGULAR GUIDE SELF-LUBRICATING VDI 3357**
**WINKELLEISTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**GUIDA ANGOLARE AUTOLUBRIFICANTE VDI 3357**

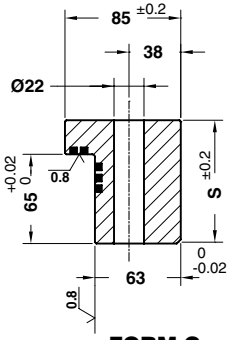


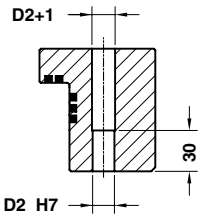

**FORM A**




**FORM B**




**FORM C**



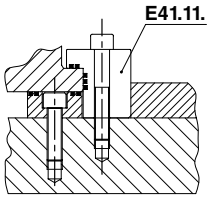

**FORM A ÷ C**

**DETAIL X**

## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example






STOCK

WEB



| ORDER EXAMPLE | Art. | S=75 | L1=250 |
|---|---|---|---|
| | E41.11. | 75 | 250 |

| OMCR CODE | S | L1 | A | B | C | D | E | F | G | H | D2 | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E41.11.55100 | 55 | 100 | 10 | 80 | 27,5 | - | - | - | 72,5 | 20 | 10 | A |
| E41.11.55160 | 55 | 160 | 10 | 140 | 27,5 | - | - | - | 132,5 | 20 | 10 | A |
| E41.11.75160 | 75 | 160 | 12,5 | 135 | 35 | - | - | - | 125 | 30 | 12 | B |
| E41.11.75200 | 75 | 200 | 12,5 | 175 | 35 | - | - | - | 165 | 30 | 12 | B |
| E41.11.75250 | 75 | 250 | 12,5 | 225 | 35 | - | 125 | - | 215 | 30 | 12 | B |
| E41.11.75400 | 75 | 400 | 12,5 | 375 | 35 | 125 | 200 | 275 | 365 | 30 | 12 | B |
| E41.11.90160 | 90 | 160 | 15 | 130 | 42,5 | - | - | - | 117,5 | 38 | 16 | C |
| E41.11.90200 | 90 | 200 | 15 | 170 | 42,5 | - | - | - | 157,5 | 38 | 16 | C |
| E41.11.90250 | 90 | 250 | 15 | 220 | 42,5 | - | 125 | - | 207,5 | 38 | 16 | C |
| E41.11.90400 | 90 | 400 | 15 | 370 | 42,5 | 125 | 200 | 275 | 357,5 | 38 | 16 | C |

# GUIDE BAR SELF-LUBRICATING
# FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF
# LARDONE AUTOLUBRIFICANTE

## Notes

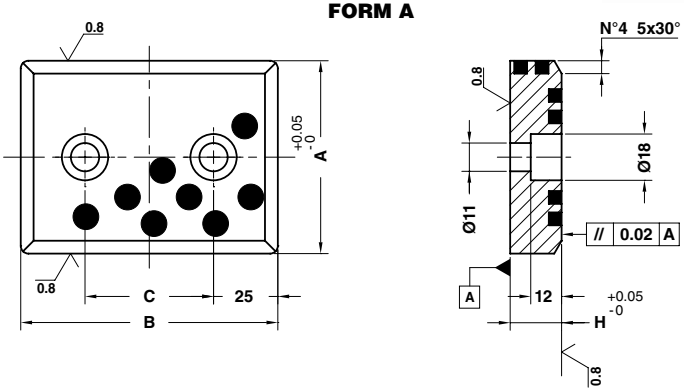
**Material:** Bronze + Graphite
**HB** > 190

STOCK

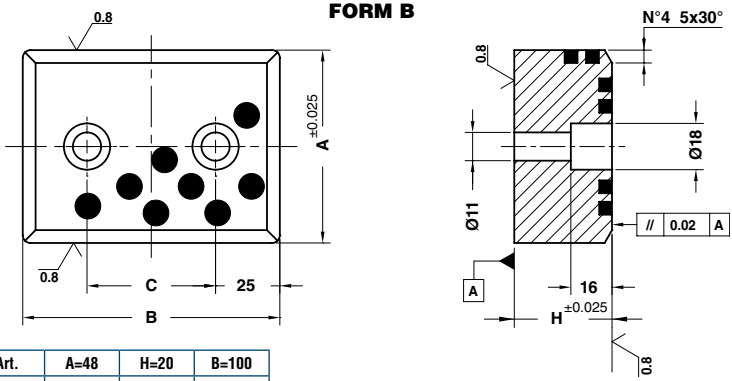
WEB



## FORM A




## FORM B




ORDER EXAMPLE

| Art. | A=48 | H=20 | B=100 |
|---|---|---|---|
| E42.10. | 48 | 20 | 100 |

| OMCR CODE | A | B | H | C | Form |
|---|---|---|---|---|---|
| E42.10.4820100 | 48 | 100 | 20 | 50 | A |
| E42.10.4820150 | 48 | 150 | 20 | 100 | A |
| E42.10.7520100 | 75 | 100 | 20 | 50 | A |
| E42.10.7520150 | 75 | 150 | 20 | 100 | A |
| E42.10.7538100 | 75 | 100 | 38 | 50 | B |
| E42.10.7538150 | 75 | 150 | 38 | 100 | B |

# GUIDE BAR STEEL
# FÜHRUNGSLEISTE STAHL
# LARDONE IN ACCIAIO

## Notes

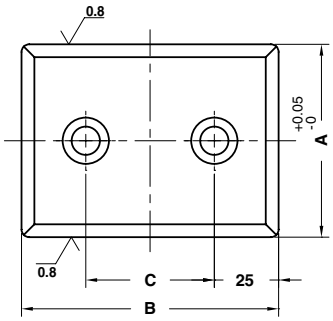
**Material:** 16MnCr5
**HRC:** 58÷60

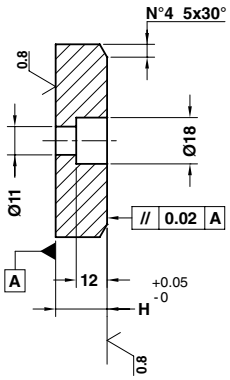
STOCK

WEB

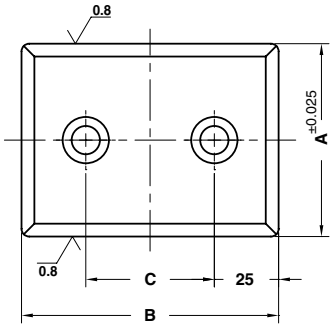


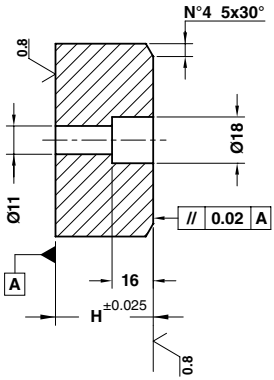
**FORM A**




**FORM B**



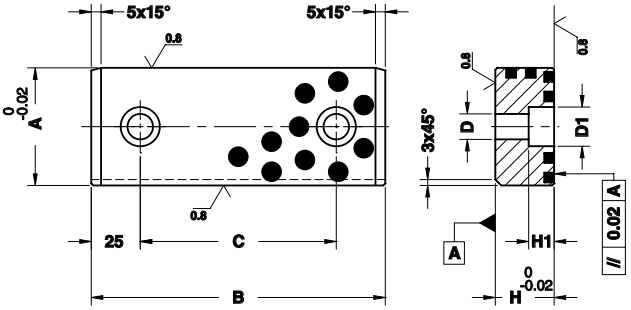

ORDER EXAMPLE

| Art. | A=48 | H=20 | B=100 |
|---|---|---|---|
| E42.11. | 48 | 20 | 100 |

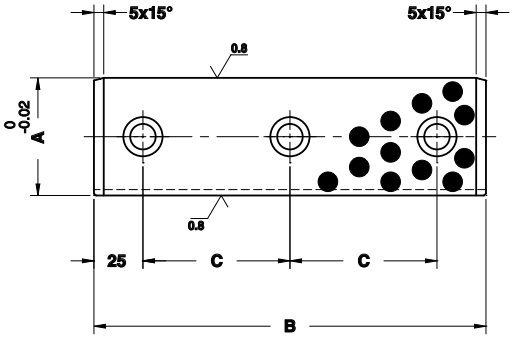
| OMCR CODE | A | B | H | C | Form |
|---|---|---|---|---|---|
| E42.11.4820100 | 48 | 100 | 20 | 50 | A |
| E42.11.4820150 | 48 | 150 | 20 | 100 | A |
| E42.11.7520100 | 75 | 100 | 20 | 50 | A |
| E42.11.7520150 | 75 | 150 | 20 | 100 | A |
| E42.11.7538100 | 75 | 100 | 38 | 50 | B |
| E42.11.7538150 | 75 | 150 | 38 | 100 | B |

**GUIDE BAR SELF-LUBRICATING VDI 3357**
**FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF VDI 3357**
**LARDONE AUTOLUBRIFICANTE VDI 3357**

**FORM A**




**FORM B**



## Notes

**Material:** Bronze + Graphite
**HB** > 190



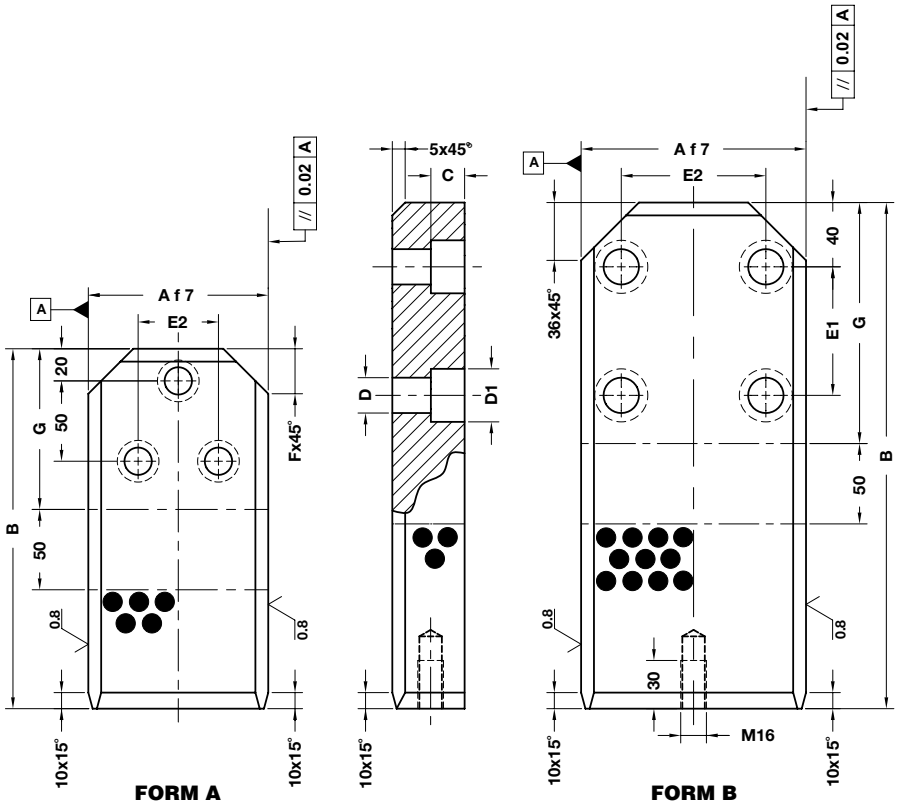
STOCK ⟺ 3D WEB

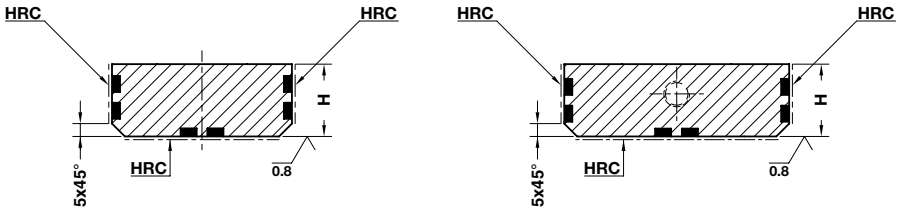


| ORDER EXAMPLE | Art. | A=60 | H=30 | B=125 |
|---|---|---|---|---|
| | E42.12. | 60 | 30 | 125 |

| OMCR CODE | A | B | C | H | D | D1 | H1 | Form |
|---|---|---|---|---|---|---|---|---|
| E42.12.2512110 | 25 | 110 | 60 | 12 | 9 | 13 | 9 | A |
| E42.12.2512120 | 25 | 120 | 70 | 12 | 9 | 13 | 9 | A |
| E42.12.2515110 | 25 | 110 | 60 | 15 | 11 | 18 | 11 | A |
| E42.12.2515120 | 25 | 120 | 70 | 15 | 11 | 18 | 11 | A |
| E42.12.6030125 | 60 | 125 | 75 | 30 | 13 | 20 | 13 | A |
| E42.12.6030150 | 60 | 150 | 100 | 30 | 13 | 20 | 13 | A |
| E42.12.6030160 | 60 | 160 | 110 | 30 | 13 | 20 | 13 | A |
| E42.12.6030200 | 60 | 200 | 75 | 30 | 13 | 20 | 13 | B |
| E42.12.6040125 | 60 | 125 | 75 | 40 | 13 | 20 | 13 | A |
| E42.12.6040150 | 60 | 150 | 100 | 40 | 13 | 20 | 13 | A |
| E42.12.6040160 | 60 | 160 | 110 | 40 | 13 | 20 | 13 | A |
| E42.12.6040200 | 60 | 200 | 75 | 40 | 13 | 20 | 13 | B |

**GUIDE STEEL SELF-LUBRICATING**
**FÜHRUNGSLASCHE STAHL MIT FESTSCHMIERSTOFF**
**LARDONE IN ACCIAIO AUTOLUBRIFICANTE**






INDEX

## Notes

**Material:** CK45 + Graphite
**HRC:** 58÷60



STOCK | WEB

| ORDER EXAMPLE | Art. | A=71 | H=36 | B=224 |
|---|---|---|---|---|
| | E42.13. | 071 | 36 | 224 |

| OMCR CODE | A | B | H | C | D | D1 | E1 | E2 | F | G | Form |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E42.13.06336180 | 63 | 180 | 36 | 16 | 13 | 20 | - | 36 | 18 | 90 | A |
| E42.13.06336200 | 63 | 200 | 36 | 16 | 13 | 20 | - | 36 | 18 | 90 | A |
| E42.13.06336224 | 63 | 224 | 36 | 16 | 13 | 20 | - | 36 | 18 | 90 | A |
| E42.13.07136180 | 71 | 180 | 36 | 16 | 13 | 20 | - | 36 | 18 | 90 | A |
| E42.13.07136200 | 71 | 200 | 36 | 16 | 13 | 20 | - | 36 | 18 | 90 | A |
| E42.13.07136224 | 71 | 224 | 36 | 16 | 13 | 20 | - | 36 | 18 | 90 | A |
| E42.13.09045200 | 90 | 200 | 45 | 21 | 17 | 26 | - | 50 | 28 | 100 | A |
| E42.13.09045224 | 90 | 224 | 45 | 21 | 17 | 26 | - | 50 | 28 | 100 | A |
| E42.13.09045250 | 90 | 250 | 45 | 21 | 17 | 26 | - | 50 | 28 | 100 | A |
| E42.13.11245200 | 112 | 200 | 45 | 21 | 17 | 26 | - | 50 | 28 | 100 | A |
| E42.13.11245224 | 112 | 224 | 45 | 21 | 17 | 26 | - | 50 | 28 | 100 | A |
| E42.13.11245250 | 112 | 250 | 45 | 21 | 17 | 26 | - | 50 | 28 | 100 | A |
| E42.13.14045315 | 140 | 315 | 45 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.14045400 | 140 | 400 | 45 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.14056315 | 140 | 315 | 56 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.14056400 | 140 | 400 | 56 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.19045315 | 190 | 315 | 45 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.19045400 | 190 | 400 | 45 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.19056315 | 190 | 315 | 56 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.19056400 | 190 | 400 | 56 | 26 | 22 | 33 | 80 | 90 | - | 150 | B |
| E42.13.24056500 | 240 | 500 | 56 | 31 | 26 | 40 | 160 | 160 | - | 250 | B |
| E42.13.24056630 | 240 | 630 | 56 | 31 | 26 | 40 | 160 | 160 | - | 250 | B |

# GUIDE BAR SELF-LUBRICATING
# FÜHRUNGSLEISTE BRONZE MIT FESTSCHMIERSTOFF
# LARDONE AUTOLUBRIFICANTE

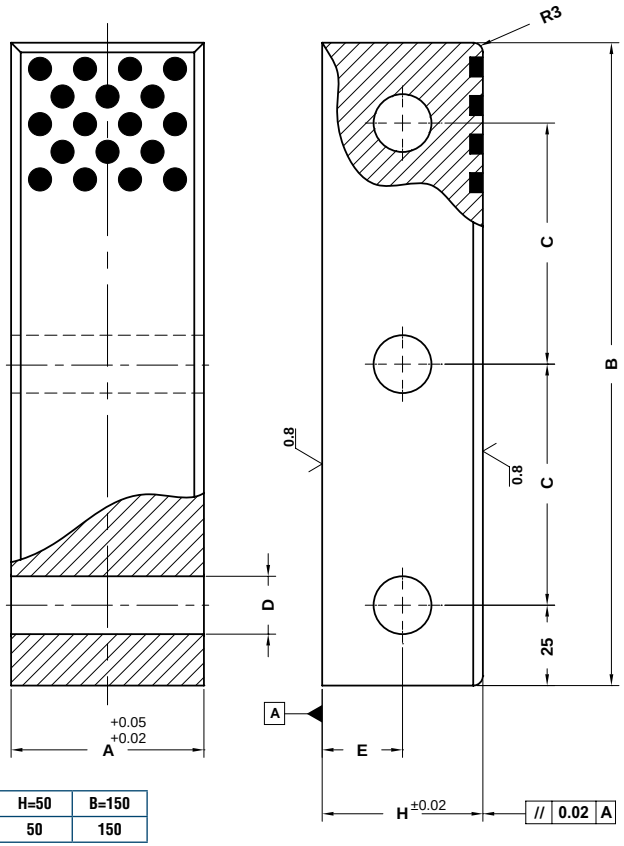
## Notes

**Material:** Bronze + Graphite
**HB** > 190

STOCK

WEB

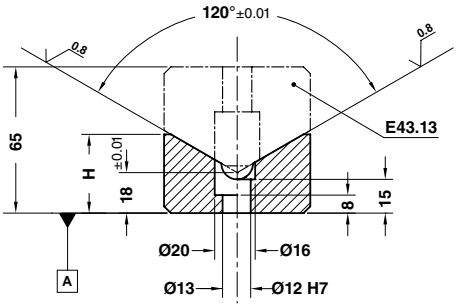


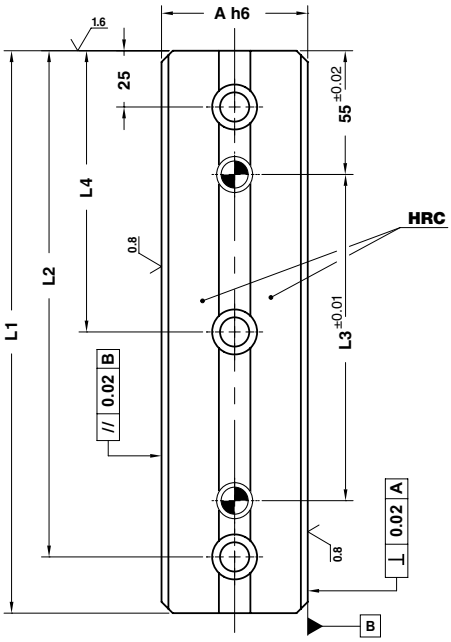



| ORDER EXAMPLE | Art. | A=60 | H=50 | B=150 |
|---|---|---|---|---|
| | E42.15. | 060 | 50 | 150 |

| OMCR CODE | A | B | C | D | E | H |
|---|---|---|---|---|---|---|
| E42.15.040040150 | 40 | 150 | 50 | 14 | 20 | 40 |
| E42.15.040040200 | 40 | 200 | 75 | 14 | 20 | 40 |
| E42.15.060050150 | 60 | 150 | 50 | 18 | 25 | 50 |
| E42.15.060050200 | 60 | 200 | 75 | 18 | 25 | 50 |

# "V" DRIVER STEEL VDI 3357
# PRISMENFÜHRUNG VDI 3357
# GUIDA A "V" IN ACCIAIO VDI 3357



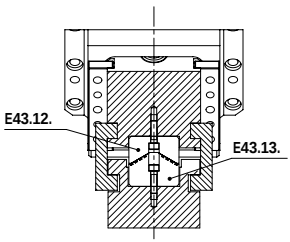



STOCK | 3D WEB

## Notes

**Material:** CK45
**HRC:** 58÷60

## Application example

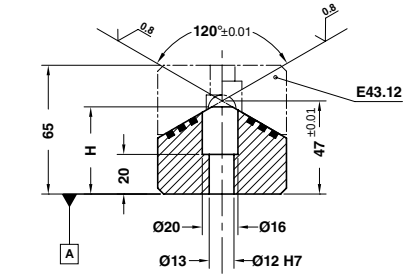


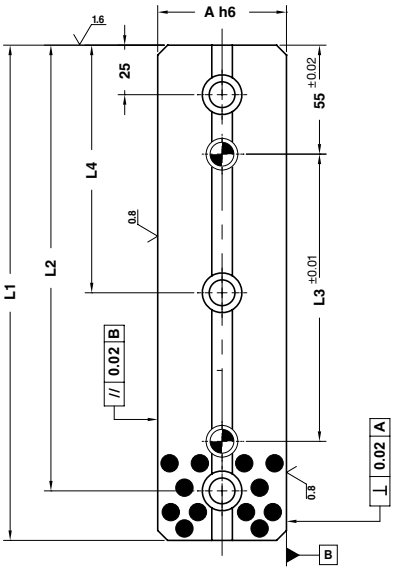

Sliding Elements

| ORDER EXAMPLE | Art. | A=65 | H=35 | L1=150 |
|---|---|---|---|---|
| | E43.12. | 065 | 35 | 150 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E43.12.06535150 | 65 | 35 | 150 | 125 | 45 | - |
| E43.12.06535200 | 65 | 35 | 200 | 175 | 95 | - |
| E43.12.06535250 | 65 | 35 | 250 | 225 | 145 | 125 |
| E43.12.06535300 | 65 | 35 | 300 | 275 | 195 | 150 |

# "V" DRIVER SELF-LUBRICATING VDI 3357
# PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# GUIDA A "V" AUTOLUBRIFICANTE VDI 3357



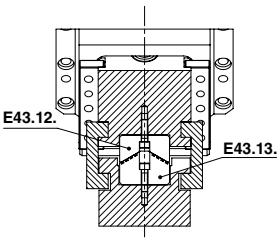



STOCK | 3D WEB

## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example

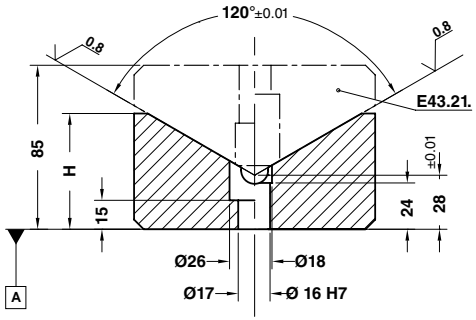


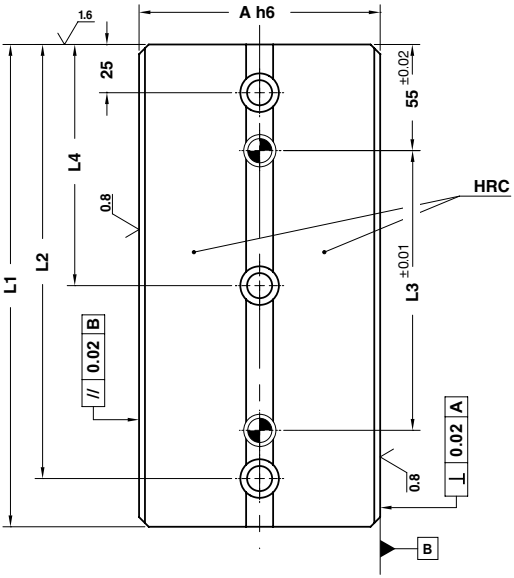

ORDER EXAMPLE

| Art. | A=65 | H=44 | L1=150 |
|---|---|---|---|
| E43.13. | 065 | 44 | 150 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E43.13.06544150 | 65 | 44 | 150 | 125 | 45 | - |
| E43.13.06544200 | 65 | 44 | 200 | 175 | 95 | - |
| E43.13.06544250 | 65 | 44 | 250 | 225 | 145 | 125 |
| E43.13.06544300 | 65 | 44 | 300 | 275 | 195 | 150 |

# "V" DRIVER STEEL VDI 3357
# PRISMENFÜHRUNG VDI 3357
# GUIDA A "V" IN ACCIAIO VDI 3357



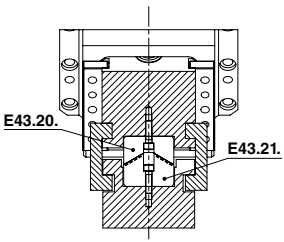



STOCK | WEB

## Notes

**Material:** CK45
**HRC:** 58÷60

## Application example

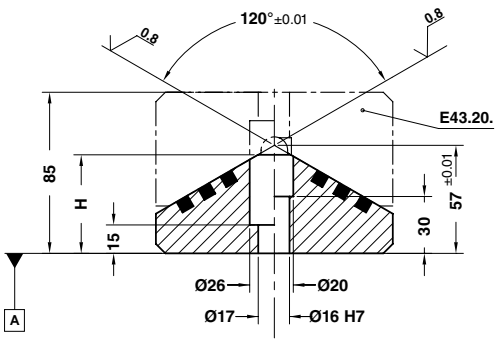


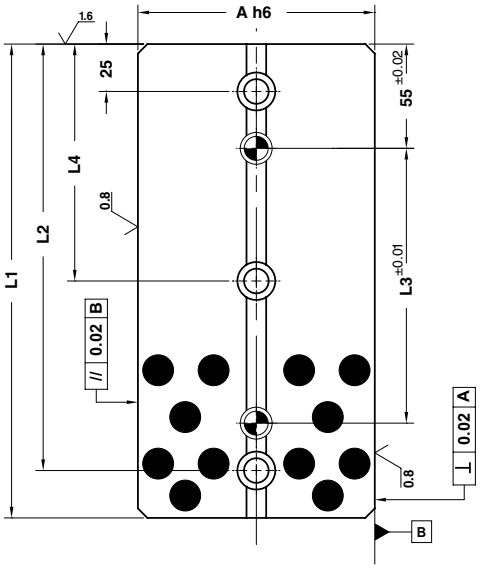

Sliding Elements

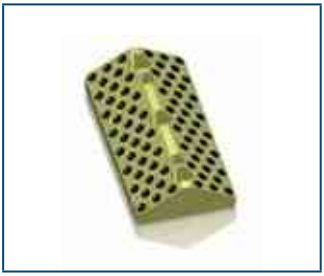
| ORDER EXAMPLE | Art. | A=125 | H=60 | L1=150 |
|---|---|---|---|---|
| | E43.20. | 125 | 60 | 150 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E43.20.12560150 | 125 | 60 | 150 | 125 | 45 | - |
| E43.20.12560200 | 125 | 60 | 200 | 175 | 95 | - |
| E43.20.12560250 | 125 | 60 | 250 | 225 | 145 | 125 |
| E43.20.12560300 | 125 | 60 | 300 | 275 | 195 | 150 |

# "V" DRIVER SELF-LUBRICATING VDI 3357
# PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# GUIDA A "V" AUTOLUBRIFICANTE VDI 3357



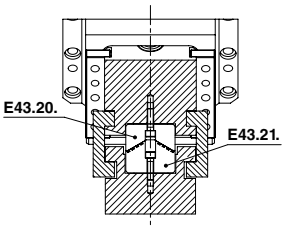



STOCK | WEB

## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example




| ORDER EXAMPLE | Art. | A=125 | H=52 | L1=200 |
|---|---|---|---|---|
| | E43.21. | 125 | 52 | 200 |

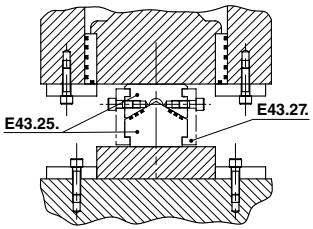
| OMCR CODE | A | H | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E43.21.12552150 | 125 | 52 | 150 | 125 | 45 | - |
| E43.21.12552200 | 125 | 52 | 200 | 175 | 95 | - |
| E43.21.12552250 | 125 | 52 | 250 | 225 | 145 | 125 |
| E43.21.12552300 | 125 | 52 | 300 | 275 | 195 | 150 |

# "V" DRIVER SET
# PRISMENFÜHRUNGSGRUPPE
# SET DI GUIDE A "V"

## Notes

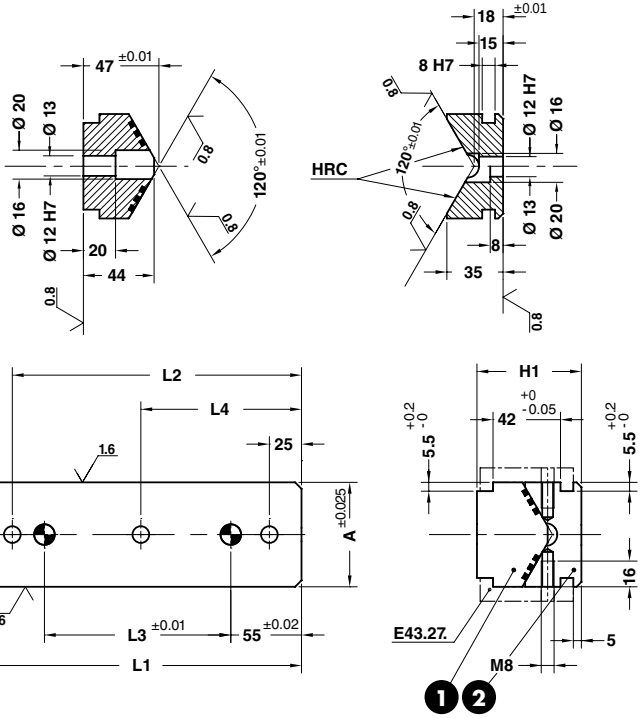
1. **Material:** Bronze + Graphite
   **HB** > 190
2. **Material:** CK45
   **HRC:** 58÷60

## Application example






STOCK | ... | ⟺ | 3D WEB




| ORDER EXAMPLE | Art. | A=65 | H1=65 | L1=200 |
|---|---|---|---|---|
| | E43.25. | 65 | 65 | 200 |

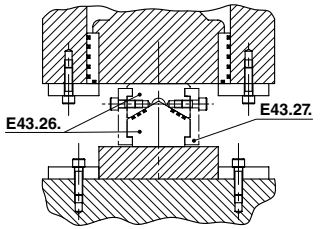
| OMCR CODE | A | H1 | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E43.25.6565150 | 65 | 65 | 150 | 125 | 45 | - |
| E43.25.6565200 | 65 | 65 | 200 | 175 | 95 | - |
| E43.25.6565250 | 65 | 65 | 250 | 225 | 145 | 125 |
| E43.25.6565300 | 65 | 65 | 300 | 275 | 195 | 150 |

# "V" DRIVER SET
# PRISMENFÜHRUNGSGRUPPE
# SET DI GUIDE A "V"

## Notes

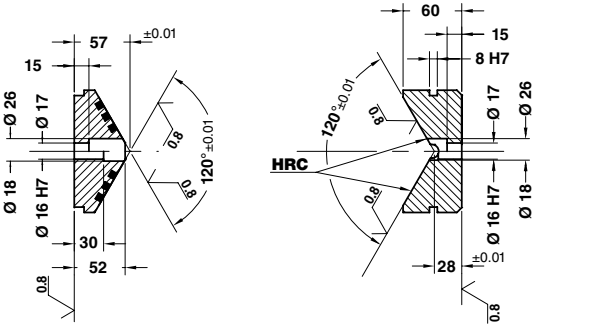
1. **Material:** Bronze + Graphite
   **HB** > 190
2. **Material:** CK45
   **HRC:** 58÷60

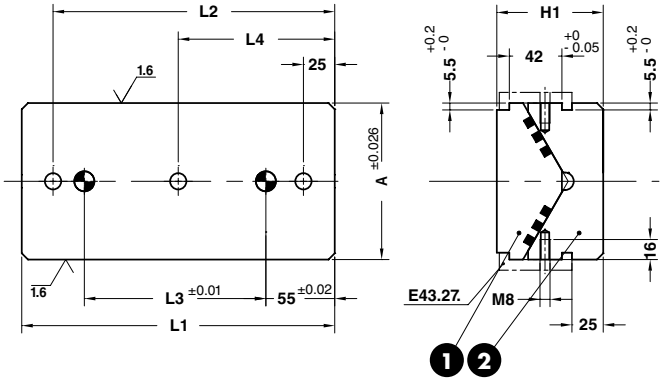
## Application example






STOCK | ... | ⇔ | 3D WEB




| ORDER EXAMPLE | Art. | A=125 | H1=85 | L1=250 |
|---|---|---|---|---|
| | E43.26. | 125 | 85 | 250 |

| OMCR CODE | A | H1 | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|
| E43.26.12585150 | 125 | 85 | 150 | 125 | 45 | - |
| E43.26.12585200 | 125 | 85 | 200 | 175 | 95 | - |
| E43.26.12585250 | 125 | 85 | 250 | 225 | 145 | 125 |
| E43.26.12585300 | 125 | 85 | 300 | 275 | 195 | 150 |

# POSITIVE RETURN
# ZWANGSRÜCKHOLER
# GANCIO

## Notes

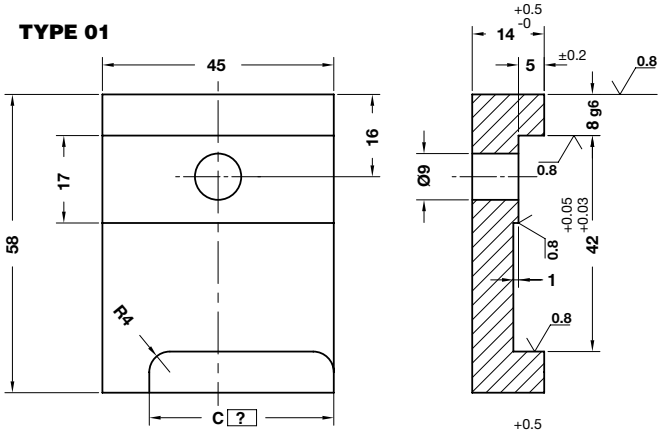
**Material:** 42CrMo4

STOCK

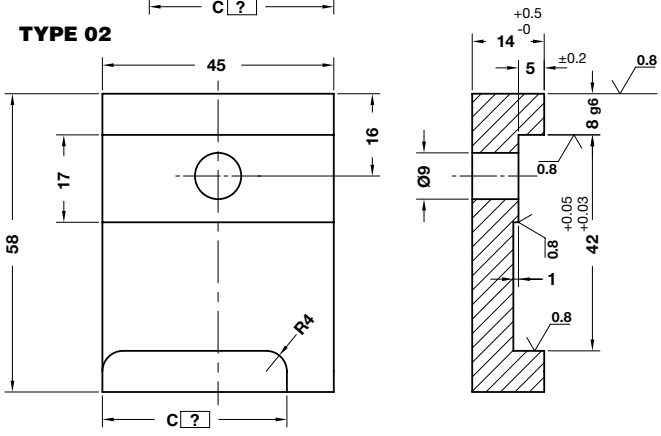
3D WEB



### TYPE 01



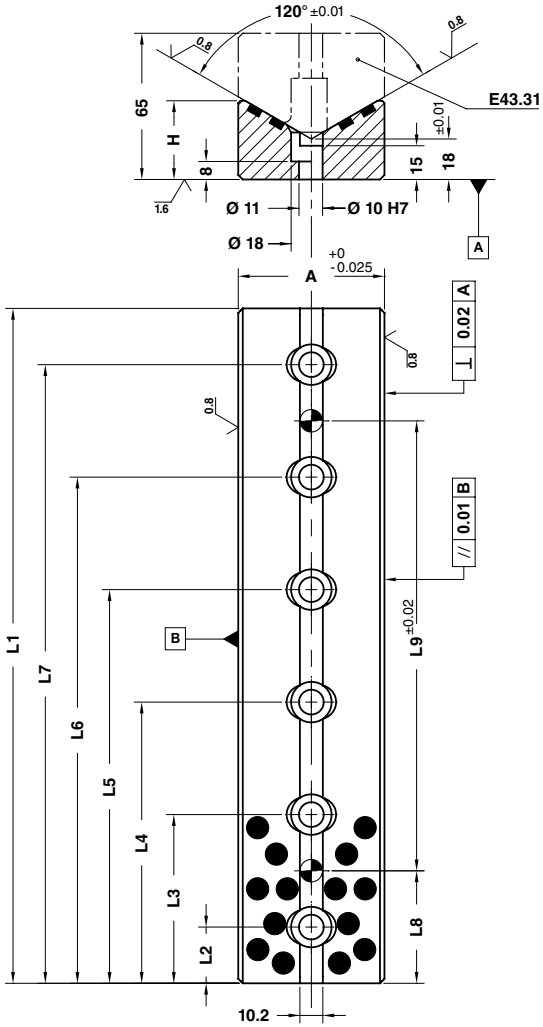

### TYPE 02




| ORDER EXAMPLE | Art. | Type | C |
|---|---|---|---|
| | E43.27. | 01 | ? |

| OMCR CODE | Type |
|---|---|
| E43.27.01 | 01 |
| E43.27.02 | 02 |

# "V" DRIVER SELF-LUBRICATING
# PRISMENFÜHRUNG BRONZE MIT FESTSCHMIERSTOFF
# GUIDA A "V" AUTOLUBRIFICANTE



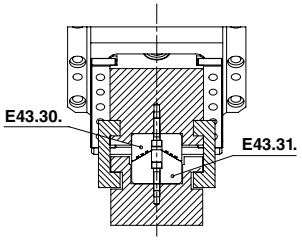



STOCK | 3D WEB

## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example

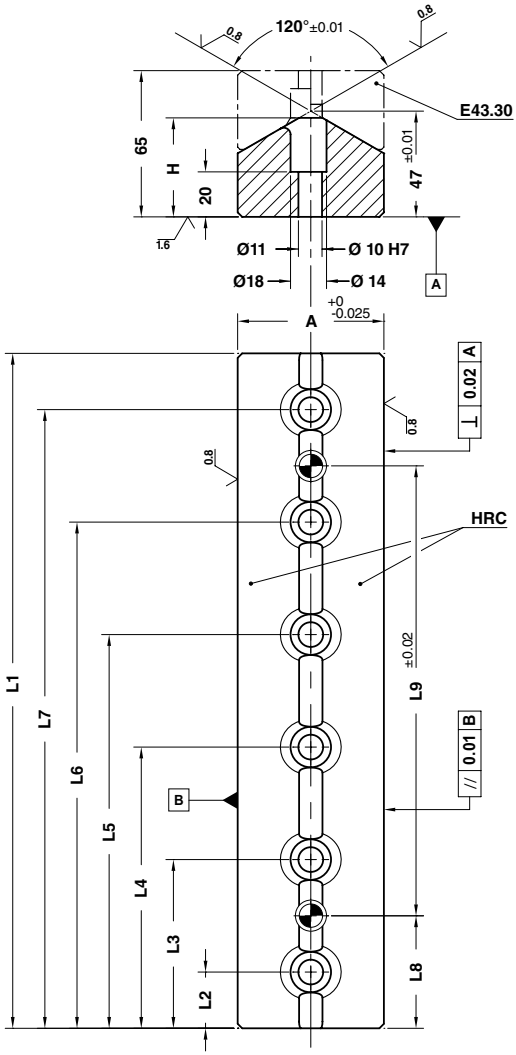



ORDER EXAMPLE

| Art. | A=65 | H=35 | L1=300 |
|---|---|---|---|
| E43.30. | 65 | 35 | 300 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E43.30.6535100 | 65 | 35 | 100 | 20 | 80 | - | - | - | - | 40 | 20 |
| E43.30.6535150 | 65 | 35 | 150 | 25 | 75 | 125 | - | - | - | 50 | 50 |
| E43.30.6535200 | 65 | 35 | 200 | 25 | 75 | 125 | 175 | - | - | 50 | 100 |
| E43.30.6535250 | 65 | 35 | 250 | 25 | 75 | 125 | 175 | 225 | - | 50 | 150 |
| E43.30.6535300 | 65 | 35 | 300 | 25 | 75 | 125 | 175 | 225 | 275 | 50 | 200 |

# "V" DRIVER STEEL
# PRISMENFÜHRUNG
# GUIDA A "V" IN ACCIAIO



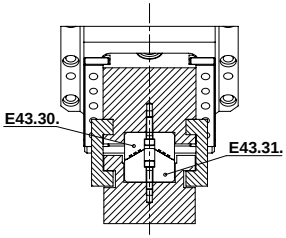



STOCK | 3D WEB

## Notes

**Material:** CK45 - **HRC:** 58 ÷ 60

## Application example

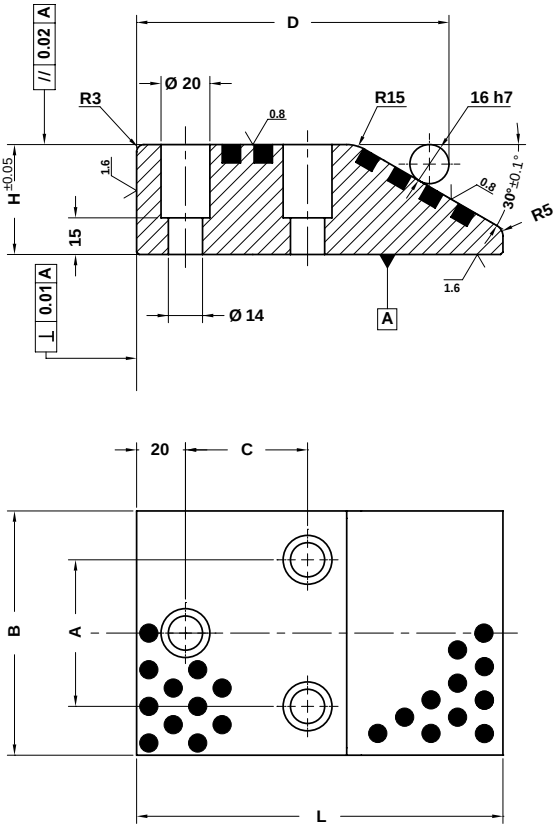



Sliding Elements

| ORDER EXAMPLE | Art. | A=65 | H=44 | L1=250 |
|---|---|---|---|---|
| | E43.31. | 65 | 44 | 250 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E43.31.6544100 | 65 | 44 | 100 | 20 | 80 | - | - | - | - | 40 | 20 |
| E43.31.6544150 | 65 | 44 | 150 | 25 | 75 | 125 | - | - | - | 50 | 50 |
| E43.31.6544200 | 65 | 44 | 200 | 25 | 75 | 125 | 175 | - | - | 50 | 100 |
| E43.31.6544250 | 65 | 44 | 250 | 25 | 75 | 125 | 175 | 225 | - | 50 | 150 |
| E43.31.6544300 | 65 | 44 | 300 | 25 | 75 | 125 | 175 | 225 | 275 | 50 | 200 |

## CAM DWELL WEAR PLATE SELF-LUBRICATING
## ÜBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF
## CUNEO AUTOLUBRIFICANTE



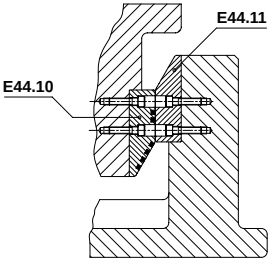



INDEX

## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example






STOCK ⟺ 3D WEB

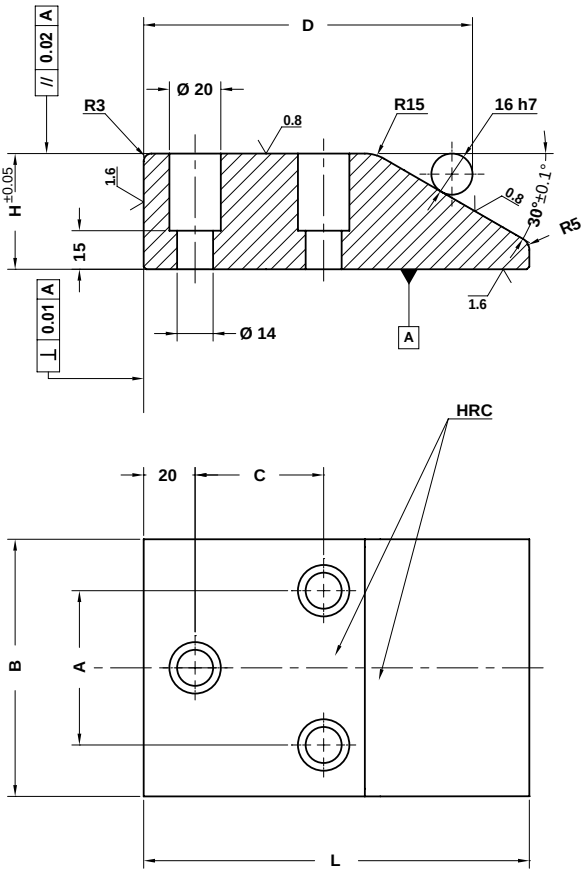


ORDER EXAMPLE

| Art. | B=125 | H=60 | L=170 |
|---|---|---|---|
| E44.10. | 125 | 60 | 170 |

| OMCR CODE | B | H | L | A | C | D |
|---|---|---|---|---|---|---|
| **E44.10.10030125** | 100 | 30 | 125 | 60 | 50 | 132,8 |
| **E44.10.12530125** | 125 | 30 | 125 | 85 | 50 | 132,8 |
| **E44.10.16030125** | 160 | 30 | 125 | 120 | 50 | 132,8 |
| **E44.10.10045150** | 100 | 45 | 150 | 60 | 45 | 127,9 |
| **E44.10.12545150** | 125 | 45 | 150 | 85 | 45 | 127,9 |
| **E44.10.16045150** | 160 | 45 | 150 | 120 | 45 | 127,9 |
| **E44.10.10060170** | 100 | 60 | 170 | 60 | 45 | 127,9 |
| **E44.10.12560170** | 125 | 60 | 170 | 85 | 45 | 127,9 |
| **E44.10.16060170** | 160 | 60 | 170 | 120 | 45 | 127,9 |

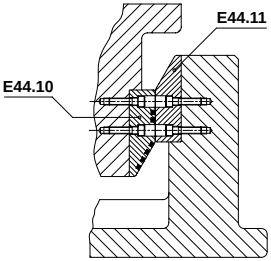
# CAM DWELL WEAR PLATE STEEL
# ÜBERLAUFKEILE STAHL
# CUNEO IN ACCIAIO



## Notes

**Material:** 42CrMo4
**HRC:** 58÷60

## Application example



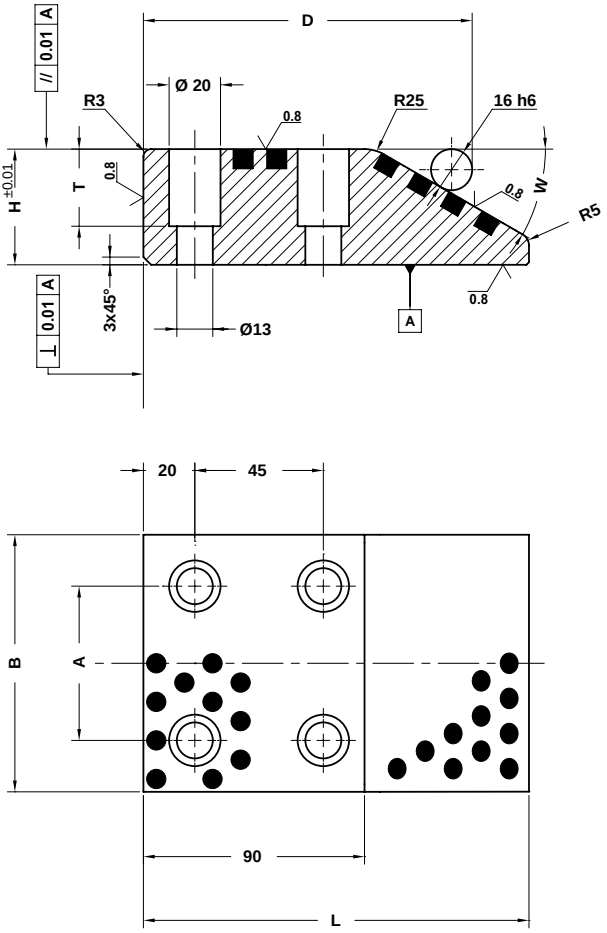



STOCK | WEB

| ORDER EXAMPLE | Art. | B=125 | H=60 | L=170 |
|---|---|---|---|---|
| | E44.11. | 125 | 60 | 170 |

| OMCR CODE | B | H | L | A | C | D |
|---|---|---|---|---|---|---|
| **E44.11.10030125** | 100 | 30 | 125 | 60 | 50 | 132,8 |
| **E44.11.12530125** | 125 | 30 | 125 | 85 | 50 | 132,8 |
| **E44.11.16030125** | 160 | 30 | 125 | 120 | 50 | 132,8 |
| **E44.11.10045150** | 100 | 45 | 150 | 60 | 45 | 127,9 |
| **E44.11.12545150** | 125 | 45 | 150 | 85 | 45 | 127,9 |
| **E44.11.16045150** | 160 | 45 | 150 | 120 | 45 | 127,9 |
| **E44.11.10060170** | 100 | 60 | 170 | 60 | 45 | 127,9 |
| **E44.11.12560170** | 125 | 60 | 170 | 85 | 45 | 127,9 |
| **E44.11.16060170** | 160 | 60 | 170 | 120 | 45 | 127,9 |

# CAM DWELL WEAR PLATE SELF-LUBRICATING VDI 3357
# ÜBERLAUFKEILE BRONZE MIT FESTSCHMIERSTOFF VDI 3357
# CUNEO AUTOLUBRIFICANTE VDI 3357



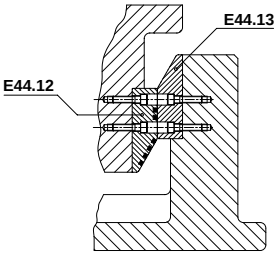



INDEX

## Notes

**Material:** Bronze + Graphite
**HB** > 190

## Application example





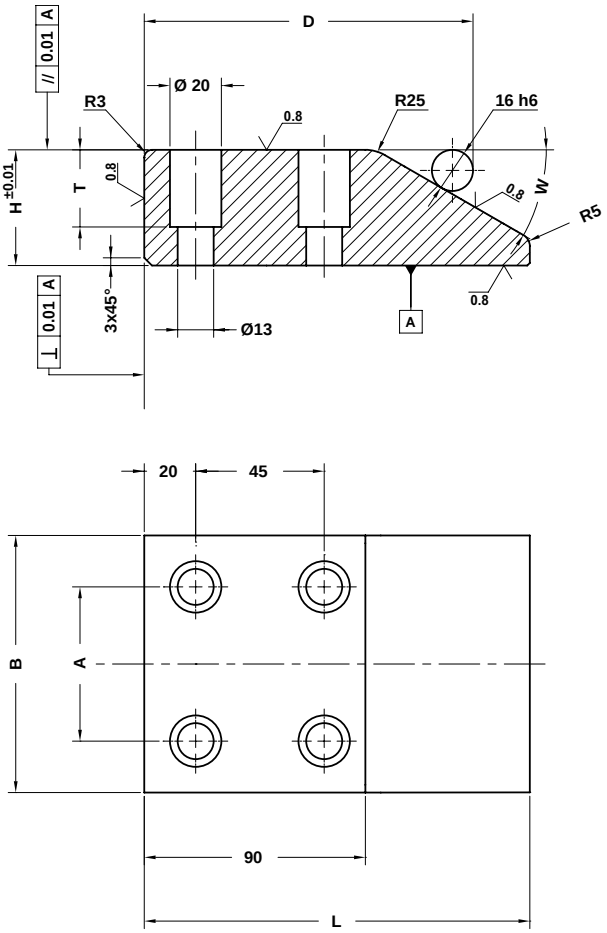

STOCK | WEB



| ORDER EXAMPLE | Art. | B=125 | H=60 | L=170 |
|---|---|---|---|---|
| | E44.12. | 125 | 60 | 170 |

| OMCR CODE | B | H | L | A | D | T | W |
|---|---|---|---|---|---|---|---|
| **E44.12.10045150** | 100 | 45 | 150 | 60 | 127,86 | 30 | 30° |
| **E44.12.12545150** | 125 | 45 | 150 | 85 | 127,86 | 30 | 30° |
| **E44.12.15045150** | 150 | 45 | 150 | 110 | 127,86 | 30 | 30° |
| **E44.12.10045170** | 100 | 45 | 170 | 60 | 143,37 | 30 | 20° |
| **E44.12.12545170** | 125 | 45 | 170 | 85 | 143,37 | 30 | 20° |
| **E44.12.15045170** | 150 | 45 | 170 | 110 | 143,37 | 30 | 20° |
| **E44.12.10060170** | 100 | 60 | 170 | 60 | 127,86 | 45 | 30° |
| **E44.12.12560170** | 125 | 60 | 170 | 85 | 127,86 | 45 | 30° |
| **E44.12.15060170** | 150 | 60 | 170 | 110 | 127,86 | 45 | 30° |

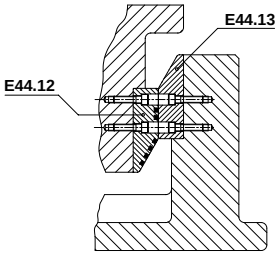
## CAM DWELL WEAR PLATE STEEL VDI 3357
## ÜBERLAUFKEILE STAHL VDI 3357
## CUNEO IN ACCIAIO VDI 3357



## Notes

**Material:** X155CrVMo121KU
**HRC:** 58÷62

## Application example






STOCK

WEB

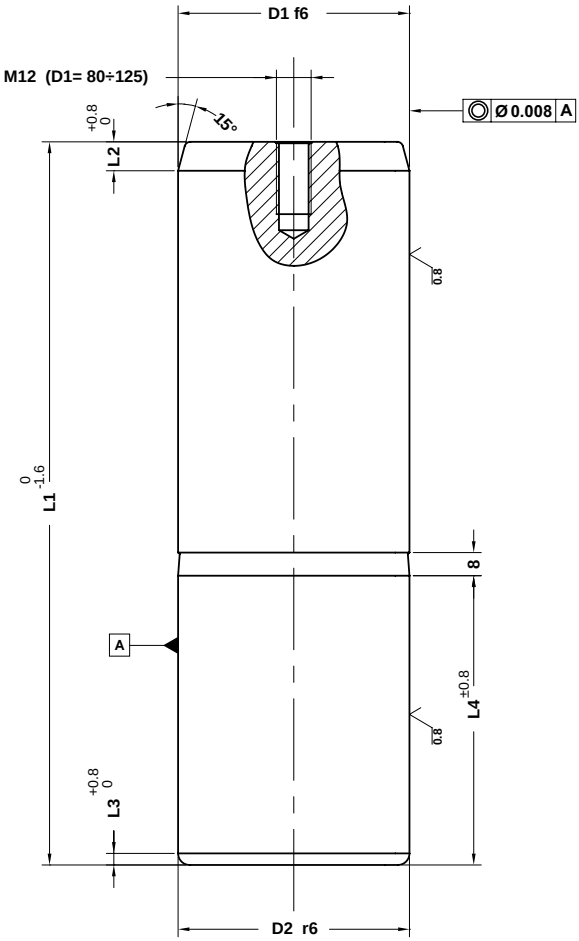


ORDER EXAMPLE

| Art. | B=125 | H=60 | L=170 |
|---|---|---|---|
| E44.13. | 125 | 60 | 170 |

| OMCR CODE | B | H | L | A | D | T | W |
|---|---|---|---|---|---|---|---|
| **E44.13.10045150** | 100 | 45 | 150 | 60 | 127,86 | 30 | 30° |
| **E44.13.12545150** | 125 | 45 | 150 | 85 | 127,86 | 30 | 30° |
| **E44.13.15045150** | 150 | 45 | 150 | 110 | 127,86 | 30 | 30° |
| **E44.13.10045170** | 100 | 45 | 170 | 60 | 143,37 | 30 | 20° |
| **E44.13.12545170** | 125 | 45 | 170 | 85 | 143,37 | 30 | 20° |
| **E44.13.15045170** | 150 | 45 | 170 | 110 | 143,37 | 30 | 20° |
| **E44.13.10060170** | 100 | 60 | 170 | 60 | 127,86 | 45 | 30° |
| **E44.13.12560170** | 125 | 60 | 170 | 85 | 127,86 | 45 | 30° |
| **E44.13.15060170** | 150 | 60 | 170 | 110 | 127,86 | 45 | 30° |

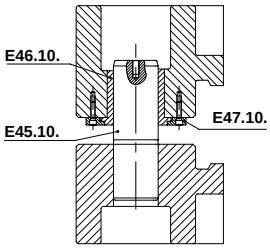
## GUIDE POST DIN 9833
## FÜHRUNGSSÄULE DIN 9833
## COLONNA DIN 9833



## Notes

**Material:** 16MnCr5
**HRC:** 60÷62

## Application example






10

3D

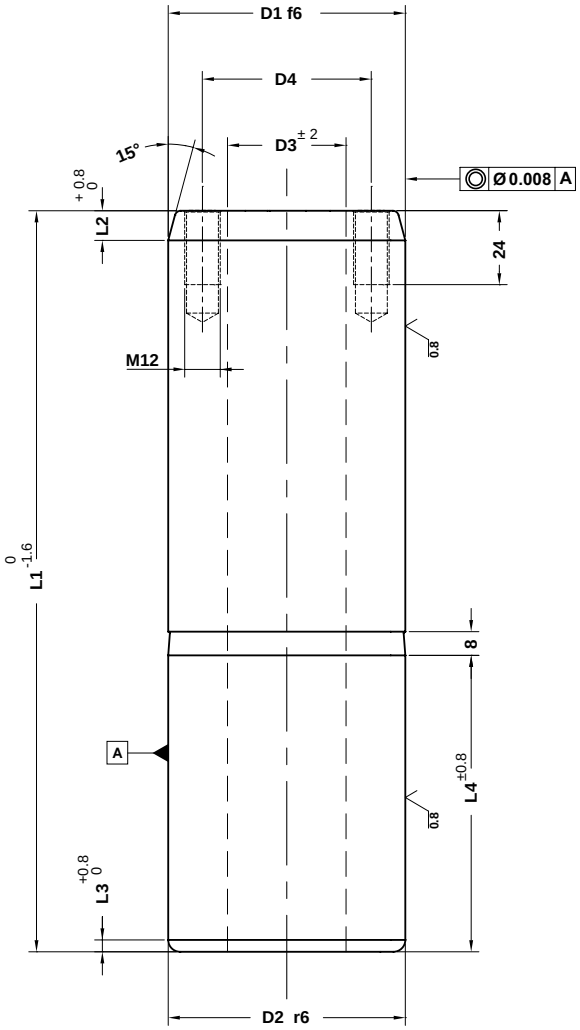
WEB

| ORDER EXAMPLE | Art. | D1=80 | L1=280 |
|---|---|---|---|
| | E45.10. | 080 | 280 |

| D1 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|---|
| D2 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| L2 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 |
| L3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| L4 | 40 | 45 | 56 | 70 | 80 | 100 | 125 | 140 |

| L1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 100 | • | | | | | | | |
| 125 | • | | | | | | | |
| 140 | • | • | • | | | | | |
| 160 | • | • | • | • | | | | |
| 180 | • | • | • | • | • | | | |
| 200 | | • | • | • | • | | | |
| 224 | | | • | • | • | • | | |
| 250 | | | • | • | • | • | • | |
| 280 | | | • | • | • | • | • | |
| 315 | | | | • | • | • | • | • |
| 355 | | | | • | • | • | • | • |
| 400 | | | | | • | • | • | • |
| 450 | | | | | | | • | • |
| 500 | | | | | | | • | • |

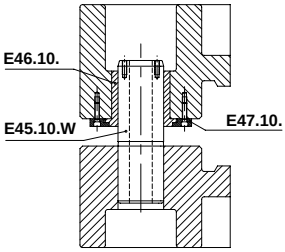
**GUIDE POST DIN 9833**
**FÜHRUNGSSÄULE DIN 9833**
**COLONNA DIN 9833**



## Notes

**Material:** 16MnCr5
**HRC:** 60÷62

## Application example






10

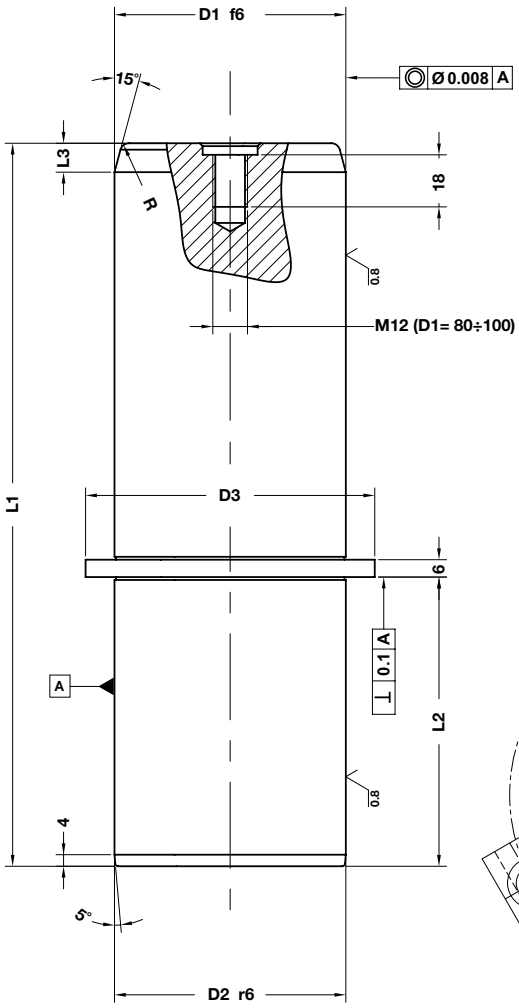
3D

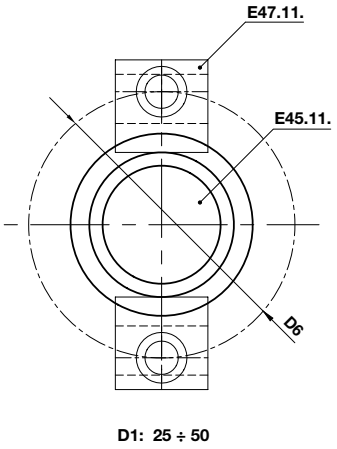
WEB

| ORDER EXAMPLE | Art. | D1=80 | L1=224 | Type |
|---|---|---|---|---|
| | E45.10. | 080 | 224 | W |

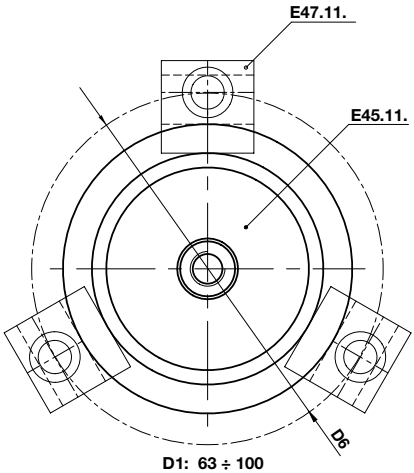
| D1 | 80 | 100 | 125 | 160 |
|---|---|---|---|---|
| D2 | 80 | 100 | 125 | 160 |
| D3 | 40 | 50 | 65 | 95 |
| D4 | 58 | 72 | 90 | 132 |
| L2 | 10 | 10 | 12 | 12 |
| L3 | 4 | 4 | 4 | 5 |
| L4 | 100 | 125 | 140 | 180 |
| TYPE | W | W | W | W |
| **L1** | | | | |
| 224 | • | | | |
| 250 | • | | | |
| 280 | • | • | | |
| 315 | • | • | • | |
| 355 | • | • | • | |
| 400 | • | • | • | • |
| 450 | | | • | • |
| 500 | | | • | • |
| 560 | | | | • |

## GUIDE POST NAAMS
## FÜHRUNGSSÄULE NAAMS
## COLONNA NAAMS




D1: 25 ÷ 50

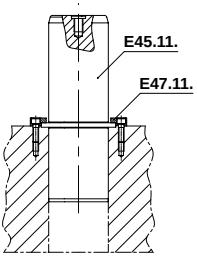


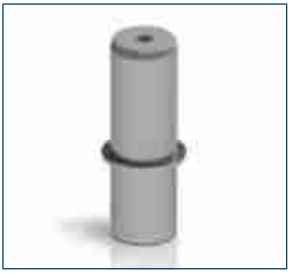

D1: 63 ÷ 100

## Notes

**Material:** 16MnCr5
**HRC:** 60÷62

## Application example



10

3D

WEB

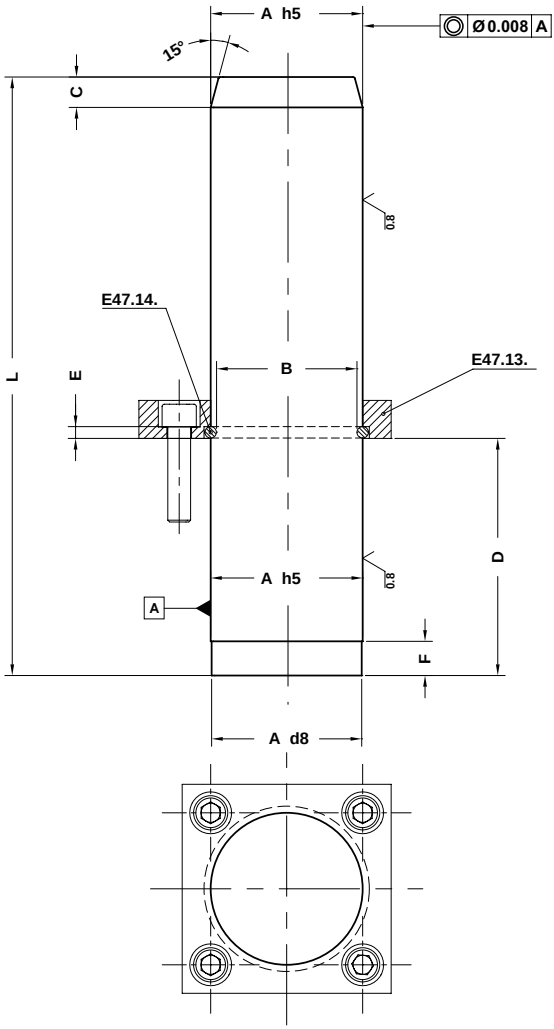
ORDER EXAMPLE

| Art. | D1=80 | L1=280 |
|---|---|---|
| E45.11. | 080 | 280 |

| D1 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
|---|---|---|---|---|---|---|---|
| D2 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
| D3 | 33 | 40 | 50 | 60 | 80 | 90 | 110 |
| D6 | 68 | 75 | 83 | 93 | 106 | 123 | 143 |
| L2 | 40 | 45 | 56 | 70 | 80 | 100 | 125 |
| L3 | 4 | 8 | 8 | 10 | 10 | 10 | 10 |
| R | 2 | 2 | 2 | 2,5 | 2,5 | 3 | 3 |

| L1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| 140 | • | • | | | | | |
| 160 | • | • | • | • | | | |
| 180 | • | • | • | • | | | |
| 200 | | • | • | • | • | | |
| 224 | | | • | • | • | | |
| 250 | | | • | • | • | • | |
| 280 | | | | • | • | • | |
| 315 | | | | • | • | • | • |
| 355 | | | | | • | • | • |
| 400 | | | | | • | • | • |
| 500 | | | | | | • | • |

# AFNOR GUIDE POST
# FÜHRUNGSSÄULE AFNOR
# COLONNA AFNOR



## Notes

**Material:** 16MnCr5
**HRC:** 60÷62



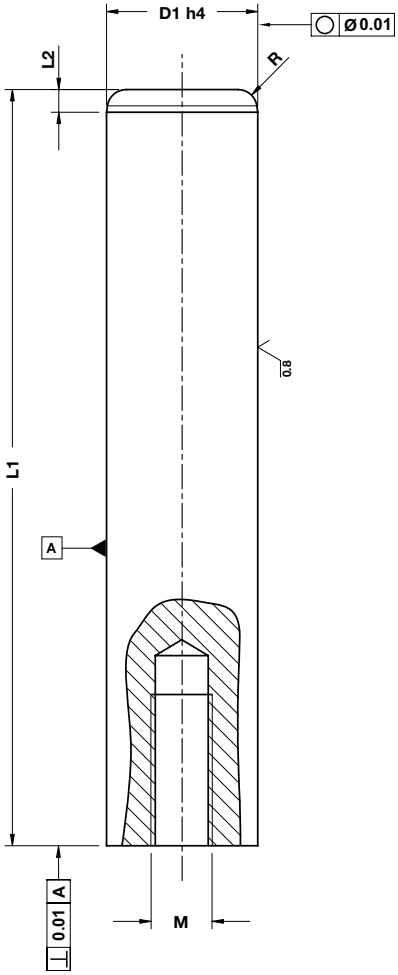
10 | 3D | WEB

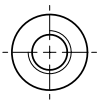
| ORDER EXAMPLE | Art. | A=40 | L=250 |
|---|---|---|---|
| | E45.12. | 040 | 250 |

| A | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
|---|---|---|---|---|---|---|---|
| B | 22,3 | 27,8 | 35,8 | 45,8 | 56,8 | 73,8 | 93,8 |
| C | 8 | 10 | 12 | 16 | 16 | 16 | 16 |
| D | 25 | 32 | 63 | 80 | 100 | 125 | 160 |
| E | 2,7 | 4,2 | 4,2 | 4,2 | 6,2 | 6,2 | 6,2 |
| F | 8 | 12 | 12 | 12 | 18 | 18 | 18 |

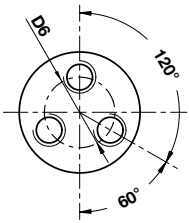
| L | | | | | | | |
|---|---|---|---|---|---|---|---|
| 100 | • | | | | | | |
| 125 | • | • | | | | | |
| 140 | • | • | | | | | |
| 160 | • | • | | | | | |
| 180 | • | • | • | | | | |
| 200 | • | • | • | • | | | |
| 220 | • | • | • | • | | | |
| 250 | | • | • | • | • | | |
| 280 | | | • | • | • | | |
| 315 | | | • | • | • | • | |
| 355 | | | | • | • | • | • |
| 400 | | | | • | • | • | • |
| 450 | | | | | | • | • |
| 500 | | | | | | | • |

## GUIDE POST ENDWISE BOLT-ON TYPE
## FÜHRUNGSSÄULE ZUM ANSCHRAUBEN
## COLONNA DA AVVITARE

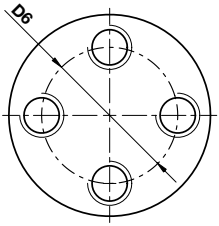


D1 = 15÷40




D1 = 48÷63

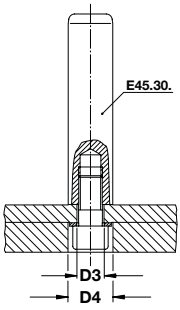



D1 = 80

## Notes

**Material:** 16MnCr5
**HRC:** 60÷62

## Application example






10 3D WEB

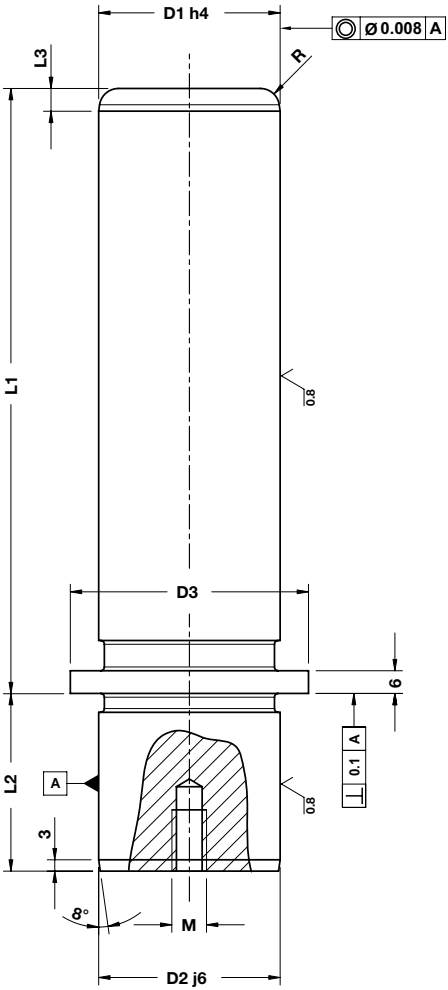
| ORDER EXAMPLE | Art. | D1=16 | L1=100 |
|---|---|---|---|
| | E45.30. | 016 | 100 |

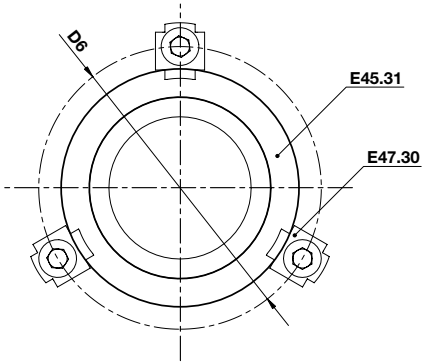
*Screws tightening torque
Anziehdrehmoment
Coppie di serraggio delle viti

| D1 | 15 | 16 | 19 | 20 | 24 | 25 | 30 | 32 | 38 | 40 | 48 | 50 | 60 | 63 | 80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D3 | 9 | 9 | 11 | 11 | 14 | 14 | 18 | 18 | 18 | 18 | 14 | 14 | 18 | 18 | 18 |
| D4 | 17 | 17 | 20 | 20 | 22 | 22 | 28 | 28 | 28 | 28 | 22 | 22 | 28 | 28 | 28 |
| D6 | - | - | - | - | - | - | - | - | - | - | 28 | 28 | 34 | 34 | 54 |
| L2 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 |
| M | 8 | 8 | 10 | 10 | 12 | 12 | 16 | 16 | 16 | 16 | 12 | 12 | 16 | 16 | 16 |
| R | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 |
| Screws DIN 912 - 8.8 | M8x35 | | M10x40 | | M12x40 | | M16x40 | | | | 3x M12x50 | | 3x M16x60 | | 4x M16x60 |
| Nm* | 21 | 21 | 37 | 37 | 85 | 85 | 150 | 150 | 150 | 150 | 85 | 85 | 200 | 200 | 200 |

| L1 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | • | • | | | | | | | | | | | | | |
| 100 | • | • | • | • | • | • | | | | | | | | | |
| 112 | • | • | • | • | • | • | | | | | | | | | |
| 125 | • | • | • | • | • | • | • | • | | | | | | | |
| 140 | • | • | • | • | • | • | • | • | | | | | | | |
| 160 | • | • | • | • | • | • | • | • | • | • | | | | | |
| 180 | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| 200 | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| 224 | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| 250 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| 280 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 315 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 355 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 400 | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 450 | | | | | • | • | • | • | • | • | • | • | • | • | • |
| 500 | | | | | • | • | • | • | • | • | • | • | • | • | • |
| 550 | | | | | | | | | • | • | • | • | • | • | • |
| 600 | | | | | | | | | • | • | • | • | • | • | • |
| 700 | | | | | | | | | • | • | • | • | • | • | • |
| 800 | | | | | | | | | • | • | • | • | • | • | • |

# GUIDE POST WITH COLLAR
# FÜHRUNGSSÄULE MIT BUND
# COLONNA CON COLLARE

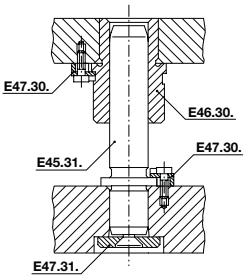


## Notes

**Material:** 16MnCr5
**HRC:** 60÷62

## Application example





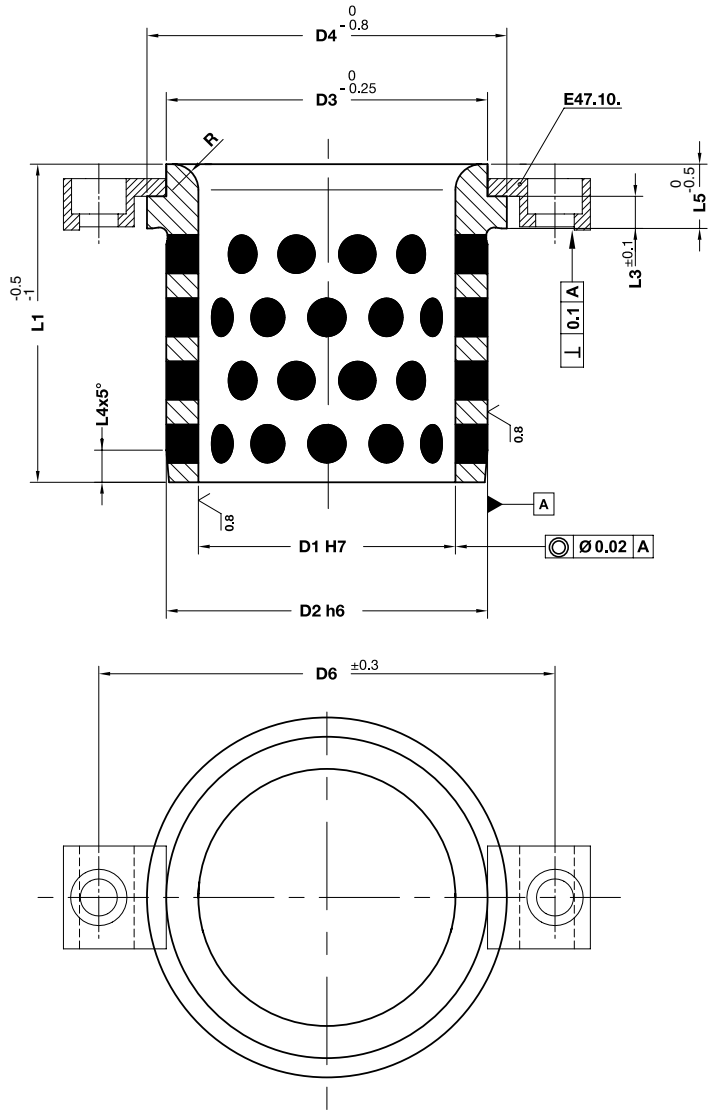

10 3D WEB

| ORDER EXAMPLE | Art. | D1=16 | L1=100 |
|---|---|---|---|
| | E45.31. | 016 | 100 |

| D1 | 15 | 16 | 19 | 20 | 24 | 25 | 30 | 32 | 38 | 40 | 48 | 50 | 60 | 63 | 80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D2 | 15 | 16 | 19 | 20 | 24 | 25 | 30 | 32 | 38 | 40 | 48 | 50 | 60 | 63 | 80 |
| D3 | 22 | 22 | 25 | 25 | 32 | 32 | 40 | 40 | 50 | 50 | 63 | 63 | 80 | 80 | 95 |
| D6 | 33 | 33 | 36 | 36 | 43 | 43 | 51 | 51 | 61 | 61 | 74 | 74 | 91 | 91 | 106 |
| L2 | 20 | 20 | 23 | 23 | 30 | 30 | 37 | 37 | 37 | 37 | 47 | 47 | 47 | 47 | 60 |
| L3 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 |
| M | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M8 | M12 |
| R | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 |

| L1 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | • | • | • | • | • | • | | | | | | | | | |
| 112 | • | • | • | • | • | • | • | • | | | | | | | |
| 125 | • | • | • | • | • | • | • | • | • | • | | | | | |
| 140 | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| 160 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| 180 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| 200 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 224 | | | | | • | • | • | • | • | • | • | • | • | • | • |
| 250 | | | | | • | • | • | • | • | • | • | • | • | • | • |
| 280 | | | | | | | • | • | • | • | • | • | • | • | • |
| 315 | | | | | | | • | • | • | • | • | • | • | • | • |
| 355 | | | | | | | | | • | • | • | • | • | • | • |
| 400 | | | | | | | | | | | • | • | • | • | • |

**BUSH SELF-LUBRICATING DIN 9834**
**FÜHRUNGSBUCHSE DIN 9834**
**BOCCOLA AUTOLUBRIFICANTE DIN 9834**



## Notes

**Material:** Bronze + Graphite
**HB** > 190



STOCK

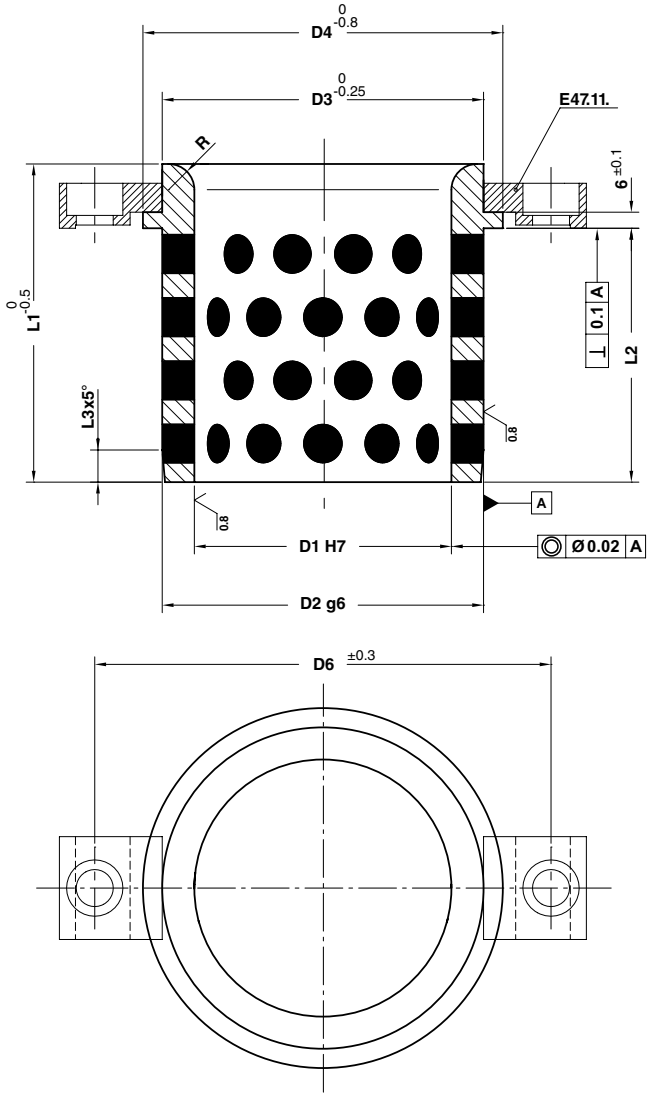
WEB



| ORDER EXAMPLE | Art. | D1=50 | L1=71 |
|---|---|---|---|
| | E46.10. | 050 | 071 |

| OMCR CODE | D1 | D2 | D3 | D4 | D6 | L1 | L3 | L4 | L5 | R |
|---|---|---|---|---|---|---|---|---|---|---|
| E46.10.025040 | 25 | 32 | 32 | 40 | 58 | 40 | 6,3 | 3 | 10 | 3 |
| E46.10.030050 | 30 | 40 | 40 | 50 | 66 | 50 | 6,3 | 4 | 12 | 3 |
| E46.10.032050 | 32 | 40 | 40 | 50 | 66 | 50 | 6,3 | 4 | 12 | 3 |
| E46.10.040063 | 40 | 50 | 50 | 63 | 79 | 63 | 6,3 | 5 | 15 | 3 |
| E46.10.050071 | 50 | 63 | 63 | 71 | 89 | 71 | 6,3 | 6,3 | 17 | 5 |
| E46.10.060080 | 60 | 80 | 80 | 90 | 123 | 80 | 10 | 8 | 19 | 6 |
| E46.10.063080 | 63 | 80 | 80 | 90 | 123 | 80 | 10 | 8 | 19 | 6 |
| E46.10.080100 | 80 | 100 | 100 | 112 | 143 | 100 | 10 | 10 | 22 | 8 |
| E46.10.100125 | 100 | 125 | 125 | 140 | 168 | 125 | 10 | 12,5 | 21 | 10 |
| E46.10.125160 | 125 | 160 | 160 | 180 | 203 | 160 | 10 | 16 | 30 | 12 |
| E46.10.160200 | 160 | 200 | 200 | 220 | 243 | 200 | 10 | 16 | 32 | 18 |

**BUSH SELF-LUBRICATING NAAMS**
**FÜHRUNGSBUCHSE NAAMS**
**BOCCOLA AUTOLUBRIFICANTE NAAMS**






INDEX

## Notes

**Material:** Bronze + Graphite
**HB** > 190



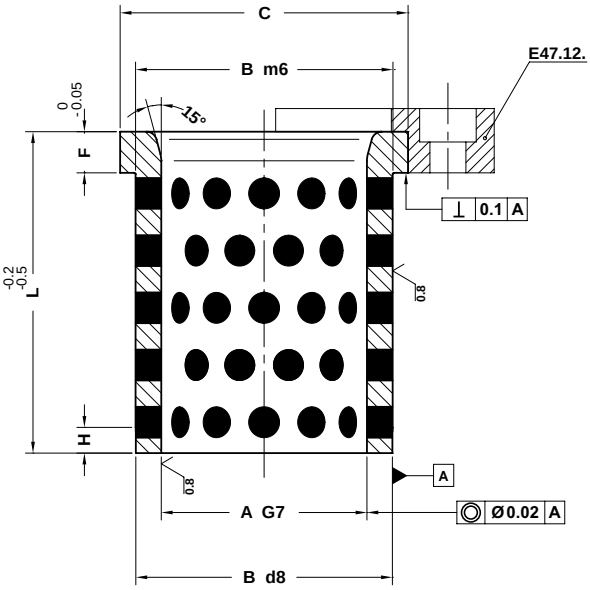
STOCK | WEB

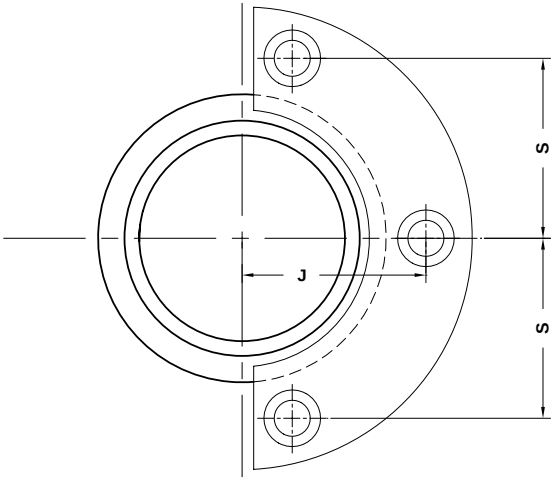


| ORDER EXAMPLE | Art. | D1=50 | L1=71 |
|---|---|---|---|
| | E46.11. | 050 | 071 |

| OMCR CODE | D1 | D2 | D3 | D4 | D6 | L1 | L2 | L3 | R |
|---|---|---|---|---|---|---|---|---|---|
| E46.11.025040 | 25 | 32 | 32 | 40 | 75 | 40 | 30 | 3 | 3 |
| E46.11.032050 | 32 | 40 | 40 | 50 | 83 | 50 | 40 | 4 | 3 |
| E46.11.040063 | 40 | 50 | 50 | 63 | 93 | 63 | 50 | 5 | 3 |
| E46.11.050071 | 50 | 63 | 63 | 71 | 106 | 71 | 56 | 6,3 | 5 |
| E46.11.063080 | 63 | 80 | 80 | 90 | 123 | 80 | 63 | 8 | 6 |
| E46.11.080100 | 80 | 100 | 100 | 112 | 143 | 100 | 80 | 10 | 8 |
| E46.11.100125 | 100 | 125 | 125 | 140 | 168 | 125 | 106 | 12,5 | 10 |
| E46.11.125160 | 125 | 160 | 160 | 180 | 203 | 160 | 132 | 16 | 12 |

**BUSH SELF-LUBRICATING AFNOR**
**FÜHRUNGSBUCHSE AFNOR**
**BOCCOLA AUTOLUBRIFICANTE AFNOR**






INDEX

**Warning:** other dimensions on request.

## Notes

**Material:** Bronze + Graphite
**HB** > 190



STOCK | WEB

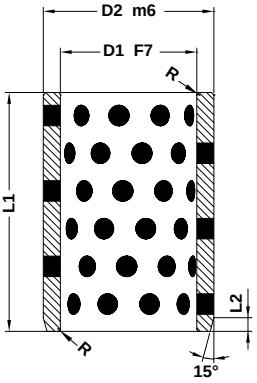


| ORDER EXAMPLE | Art. | A=50 | L=80 |
|---|---|---|---|
| | E46.12. | 050 | 080 |

| OMCR CODE | A | B | C | L | F | H | J | S |
|---|---|---|---|---|---|---|---|---|
| E46.12.025040 | 25 | 35 | 40 | 40 | 5 | 5 | - | 20 |
| E46.12.032050 | 32 | 44 | 50 | 50 | 6 | 8 | - | 25 |
| E46.12.040063 | 40 | 52 | 60 | 63 | 8 | 8 | 41 | 38,5 |
| E46.12.050080 | 50 | 63 | 71 | 80 | 10 | 8 | 49 | 46 |
| E46.12.063100 | 63 | 80 | 90 | 100 | 12 | 10 | 57,5 | 55 |
| E46.12.080125 | 80 | 100 | 112 | 125 | 16 | 10 | 72 | 70 |
| E46.12.100160 | 100 | 125 | 140 | 160 | 20 | 10 | 85 | 81 |

OMCR

# BUSH SELF-LUBRICATING
# FÜHRUNGSBUCHSE
# BOCCOLA AUTOLUBRIFICANTE






STOCK | WEB

**Warning:** other dimensions on request.
**Actung:** Sonstige Abmessungen auf Anfrage.
**Attenzione:** altre dimensioni a richiesta

## Notes

**Material:** Bronze + Graphite
**HB** > 190

ORDER EXAMPLE

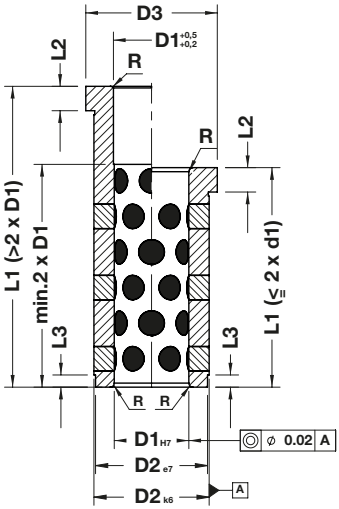
| Art. | D1=25 | D2=35 | L=35 |
|---|---|---|---|
| E46.20. | 025 | 035 | 035 |

| D1 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 20 | 25 | 25 | 30 | 30 | 35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D2 | 12 | 14 | 18 | 20 | 22 | 24 | 28 | 30 | 33 | 35 | 38 | 40 | 45 |
| R | 0,5 | 0,5 | 0,5 | 0,5 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 |
| L2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| **L1** | | | | | | | | | | | | | |
| 8 | • | • | | | | | | | | | | | |
| 10 | • | • | • | • | • | | | | | | | | |
| 12 | • | • | • | • | • | | | | | | | | |
| 15 | • | • | • | • | • | • | • | | | | | | |
| 16 | | | • | • | • | • | • | • | • | • | | | |
| 20 | | • | • | • | • | • | • | • | • | • | | • | • |
| 25 | | | • | • | • | • | • | • | • | • | | • | • |
| 30 | | | • | • | • | • | • | • | • | • | • | • | • |
| 35 | | | | | • | • | • | • | • | • | • | • | • |
| 40 | | | | | • | • | • | • | • | • | • | • | • |
| 50 | | | | | | | • | | • | • | • | • | • |
| 60 | | | | | | | | | • | | | • | • |
| 70 | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | |
| 150 | | | | | | | | | | | | | |

| D1 | 40 | 40 | 45 | 45 | 50 | 50 | 50 | 50 | 60 | 60 | 65 | 70 | 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D2 | 50 | 55 | 55 | 60 | 60 | 62 | 65 | 55 | 74 | 75 | 80 | 85 | 90 |
| R | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 2 | 70 | 2 | 2 | 2 | 2 | 2 |
| L2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| **L1** | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 20 | • | • | | | | | | | | | | | |
| 25 | • | • | | | | | | | | | | | |
| 30 | • | • | • | • | | • | • | | • | • | | | |
| 35 | • | • | • | • | | • | • | | • | • | | • | |
| 40 | • | • | • | • | • | • | • | • | • | • | | • | |
| 50 | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 60 | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 70 | • | | | • | • | • | • | • | • | • | • | • | • |
| 80 | • | | | • | • | | • | | • | • | • | • | • |
| 90 | | | | | | | | | | | | | |
| 100 | | | | | | | • | | | • | | • | |
| 110 | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | |
| 150 | | | | | | | | | | | | | |

| D1 | 75 | 75 | 80 | 80 | 90 | 110 | 120 | 130 | 140 | 150 | 160 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D2 | 90 | 95 | 96 | 100 | 110 | 130 | 140 | 150 | 160 | 170 | 180 |
| R | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| L2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| **L1** | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |
| 40 | | | • | • | | | | | | | |
| 50 | | | • | • | | | | | | | |
| 60 | • | • | • | • | • | | | | | | |
| 70 | • | • | • | • | • | | | | | | |
| 80 | • | • | • | • | • | • | • | | | | |
| 90 | | | | | | | | | | | |
| 100 | • | • | • | • | • | • | • | • | • | • | • |
| 110 | | | | | | | | | | | |
| 120 | | | • | • | • | • | • | • | | | |
| 130 | | | | | | | | • | | | |
| 140 | | | | • | | | • | | • | | |
| 150 | | | | | | | | | | • | • |

# BUSH SELF-LUBRICATING
# FÜHRUNGSBUCHSE
# BOCCOLA AUTOLUBRIFICANTE






STOCK | 3D WEB

**Warning:** other dimensions on request.
**Actung:** Sonstige Abmessungen auf Anfrage.
**Attenzione:** altre dimensioni a richiesta

## Notes

**Material:** Bronze + Graphite
**HB** > 190

ORDER EXAMPLE

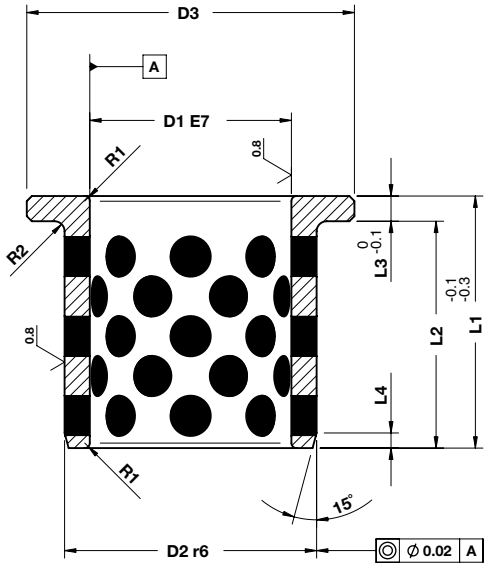
| Art. | D1=18 | D2=26 | L1=36 |
|---|---|---|---|
| E46.21. | 018 | 026 | 036 |

| D1 | 9-10 | 12 | 14-15 | 16 | 18-20 | 22-24 | 30-32 | 40-42 | 50 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|
| D2 | 14 | 18 | 20 | 22 | 26 | 30 | 42 | 54 | 66 | 80 |
| D3 | 16 | 23 | 25 | 27 | 31 | 35 | 47 | 60 | 72 | 86 |
| R | 0,5 | 11 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| L2 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 20 |
| L3 | 1,5 | 2 | 2 | 2 | 2 | 3 | 4 | 5 | 5 | 5 |

| L1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 12 | • | | | | | | | | | |
| 17 | • | • | • | • | • | • | | | | |
| 22 | • | • | • | • | • | • | | | | |
| 27 | • | • | • | • | • | • | • | | | |
| 36 | • | • | • | • | • | • | • | | | |
| 46 | • | • | • | • | • | • | • | • | | |
| 56 | • | • | • | • | • | • | • | • | | |
| 66 | | | | | • | • | • | • | | |
| 76 | | | | | • | • | • | • | • | |
| 86 | | | | | | • | • | • | • | |
| 96 | | | | | | • | • | • | • | • |
| 116 | | | | | | | • | • | • | • |
| 136 | | | | | | | | • | • | • |
| 156 | | | | | | | | • | • | • |
| 196 | | | | | | | | | • | • |

# BUSH SELF-LUBRICATING
# FÜHRUNGSBUCHSE
# BOCCOLA AUTOLUBRIFICANTE






STOCK | WEB

## Notes

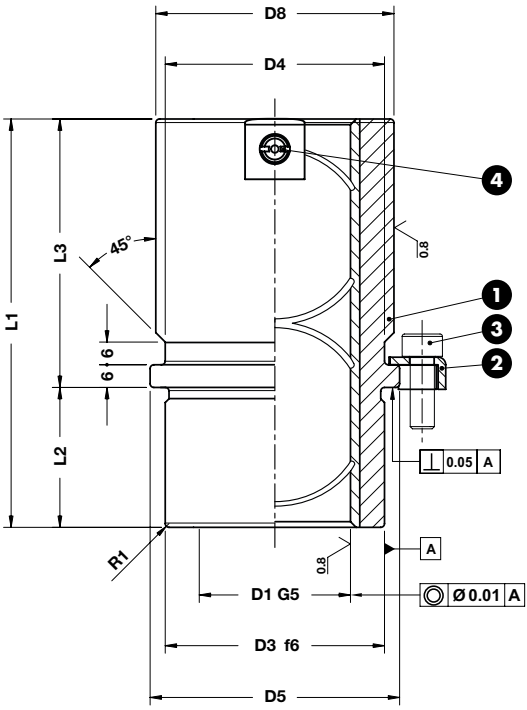
**Material:** Bronze + Graphite
**HB** > 190

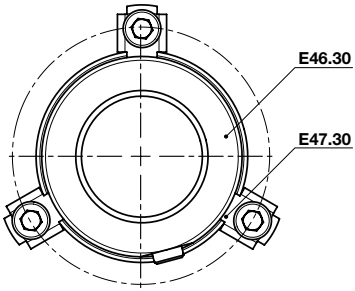
| ORDER EXAMPLE | Art. | D1=10 | L1=20 |
|---|---|---|---|
| | E46.22. | 010 | 020 |

| OMCR CODE | D1 | D2 | D3 | L1 | L2 | L3 | L4 | R1 | R2 |
|---|---|---|---|---|---|---|---|---|---|
| E46.22.010015 | 10 | 14 | 22 | 15 | 13 | 2 | 2 | 1 | 0,4 |
| E46.22.010020 | 10 | 14 | 22 | 20 | 18 | 2 | 2 | 1 | 0,4 |
| E46.22.012015 | 12 | 18 | 25 | 15 | 12 | 3 | 2 | 1 | 0,4 |
| E46.22.012020 | 12 | 18 | 25 | 20 | 17 | 3 | 2 | 1 | 0,4 |
| E46.22.013015 | 13 | 19 | 26 | 15 | 12 | 3 | 2 | 1 | 0,4 |
| E46.22.013020 | 13 | 19 | 26 | 20 | 17 | 3 | 2 | 1 | 0,4 |
| E46.22.014015 | 14 | 20 | 27 | 15 | 12 | 3 | 2 | 1 | 0,4 |
| E46.22.014020 | 14 | 20 | 27 | 20 | 17 | 3 | 2 | 1 | 0,4 |
| E46.22.015015 | 15 | 21 | 28 | 15 | 12 | 3 | 2 | 1 | 0,5 |

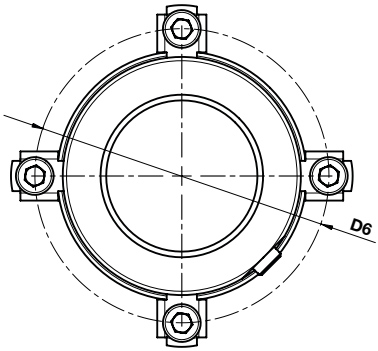
| OMCR CODE | D1 | D2 | D3 | L1 | L2 | L3 | L4 | R1 | R2 |
|---|---|---|---|---|---|---|---|---|---|
| **E46.22.015020** | 15 | 21 | 28 | 20 | 17 | 3 | 2 | 1 | 0,5 |
| **E46.22.015025** | 15 | 21 | 28 | 25 | 22 | 3 | 2 | 1 | 0,5 |
| **E46.22.015030** | 15 | 21 | 28 | 30 | 27 | 3 | 2 | 1 | 0,5 |
| **E46.22.016015** | 16 | 22 | 29 | 15 | 12 | 3 | 2 | 1 | 0,5 |
| **E46.22.016020** | 16 | 22 | 29 | 20 | 17 | 3 | 2 | 1 | 0,5 |
| **E46.22.016025** | 16 | 22 | 29 | 25 | 22 | 3 | 2 | 1 | 0,5 |
| **E46.22.016030** | 16 | 22 | 29 | 30 | 27 | 3 | 2 | 1 | 0,5 |
| **E46.22.020015** | 20 | 30 | 40 | 15 | 10 | 5 | 3 | 2 | 0,5 |
| **E46.22.020020** | 20 | 30 | 40 | 20 | 15 | 5 | 3 | 2 | 0,5 |
| **E46.22.020025** | 20 | 30 | 40 | 25 | 20 | 5 | 3 | 2 | 0,5 |
| **E46.22.020030** | 20 | 30 | 40 | 30 | 25 | 5 | 3 | 2 | 0,5 |
| **E46.22.020040** | 20 | 30 | 40 | 40 | 35 | 5 | 3 | 2 | 0,5 |
| **E46.22.025015** | 25 | 35 | 45 | 15 | 10 | 5 | 3 | 2 | 0,5 |
| **E46.22.025020** | 25 | 35 | 45 | 20 | 15 | 5 | 3 | 2 | 0,5 |
| **E46.22.025025** | 25 | 35 | 45 | 25 | 20 | 5 | 3 | 2 | 0,5 |
| **E46.22.025030** | 25 | 35 | 45 | 30 | 25 | 5 | 3 | 2 | 0,5 |
| **E46.22.025040** | 25 | 35 | 45 | 40 | 35 | 5 | 3 | 2 | 0,5 |
| **E46.22.030020** | 30 | 40 | 50 | 20 | 15 | 5 | 3 | 2 | 0,5 |
| **E46.22.030025** | 30 | 40 | 50 | 25 | 20 | 5 | 3 | 2 | 0,5 |
| **E46.22.030030** | 30 | 40 | 50 | 30 | 25 | 5 | 3 | 2 | 0,5 |
| **E46.22.030035** | 30 | 40 | 50 | 35 | 30 | 5 | 3 | 2 | 0,5 |
| **E46.22.030040** | 30 | 40 | 50 | 40 | 35 | 5 | 3 | 2 | 0,5 |
| **E46.22.030050** | 30 | 40 | 50 | 50 | 45 | 5 | 3 | 2 | 0,5 |
| **E46.22.031020** | 31,5 | 40 | 50 | 20 | 15 | 5 | 3 | 2 | 0,6 |
| **E46.22.031035** | 31,5 | 40 | 50 | 35 | 30 | 5 | 3 | 2 | 0,6 |
| **E46.22.035020** | 35 | 45 | 60 | 20 | 15 | 5 | 3 | 2 | 0,6 |
| **E46.22.035030** | 35 | 45 | 60 | 30 | 25 | 5 | 3 | 2 | 0,6 |
| **E46.22.035040** | 35 | 45 | 60 | 40 | 35 | 5 | 3 | 2 | 0,6 |
| **E46.22.035050** | 35 | 45 | 60 | 50 | 45 | 5 | 3 | 2 | 0,6 |
| **E46.22.040020** | 40 | 50 | 65 | 20 | 15 | 5 | 3 | 2 | 0,6 |
| **E46.22.040030** | 40 | 50 | 65 | 30 | 25 | 5 | 3 | 2 | 0,6 |
| **E46.22.040040** | 40 | 50 | 65 | 40 | 35 | 5 | 3 | 2 | 0,6 |
| **E46.22.040050** | 40 | 50 | 65 | 50 | 45 | 5 | 3 | 2 | 0,6 |
| **E46.22.045030** | 45 | 55 | 70 | 30 | 25 | 5 | 3 | 2 | 0,6 |
| **E46.22.045040** | 45 | 55 | 70 | 40 | 35 | 5 | 3 | 2 | 0,6 |
| **E46.22.045050** | 45 | 55 | 70 | 50 | 45 | 5 | 3 | 2 | 0,6 |
| **E46.22.045060** | 45 | 55 | 70 | 60 | 55 | 5 | 3 | 2 | 0,6 |
| **E46.22.050030** | 50 | 60 | 75 | 30 | 25 | 5 | 3 | 2 | 0,6 |
| **E46.22.050040** | 50 | 60 | 75 | 40 | 35 | 5 | 3 | 2 | 0,6 |
| **E46.22.050050** | 50 | 60 | 75 | 50 | 45 | 5 | 3 | 2 | 0,6 |
| **E46.22.050060** | 50 | 60 | 75 | 60 | 55 | 5 | 3 | 2 | 0,6 |
| **E46.22.055040** | 55 | 65 | 80 | 40 | 35 | 5 | 3 | 2 | 0,7 |
| **E46.22.055060** | 55 | 65 | 80 | 60 | 55 | 5 | 3 | 2 | 0,7 |
| **E46.22.060040** | 60 | 75 | 90 | 40 | 32,5 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.060050** | 60 | 75 | 90 | 50 | 42,5 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.060080** | 60 | 75 | 90 | 80 | 72,5 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.063067** | 63 | 75 | 85 | 67,5 | 60 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.070050** | 70 | 85 | 105 | 50 | 42,5 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.070080** | 70 | 85 | 105 | 80 | 72,5 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.075060** | 75 | 90 | 110 | 60 | 52,5 | 7,5 | 4 | 3 | 0,7 |
| **E46.22.080060** | 80 | 100 | 120 | 60 | 50 | 10 | 4 | 3 | 0,8 |
| **E46.22.080080** | 80 | 100 | 120 | 80 | 70 | 10 | 4 | 3 | 0,8 |
| **E46.22.080100** | 80 | 100 | 120 | 100 | 90 | 10 | 4 | 3 | 0,8 |
| **E46.22.090060** | 90 | 110 | 130 | 60 | 50 | 10 | 4 | 3 | 0,8 |
| **E46.22.090080** | 90 | 110 | 130 | 80 | 70 | 10 | 4 | 3 | 0,8 |
| **E46.22.100080** | 100 | 120 | 150 | 80 | 70 | 10 | 4 | 3 | 0,8 |
| **E46.22.100100** | 100 | 120 | 150 | 100 | 90 | 10 | 4 | 3 | 0,8 |
| **E46.22.120080** | 120 | 140 | 170 | 80 | 70 | 10 | 4 | 3 | 0,8 |
| **E46.22.120100** | 120 | 140 | 170 | 100 | 90 | 10 | 4 | 3 | 0,8 |

**BUSH BRONZEPLATED ISO 9448-6**
**FÜHRUNGSBUCHSE MIT BUND BRONZEPLATTIERT ISO 9448-6**
**BOCCOLA CON RIPORTO IN BRONZO ISO 9448-6**




D1 = 19÷32




D1 = 38÷80



INDEX

## Notes

1. **Material:** Steel + Bronze - **HRC:** 54÷58 - **HB** > 190
2. E47.30.
3. M6x20 DIN 7984
4. Grease nipple DIN 3405 - A M8x1



STOCK ... 3D WEB

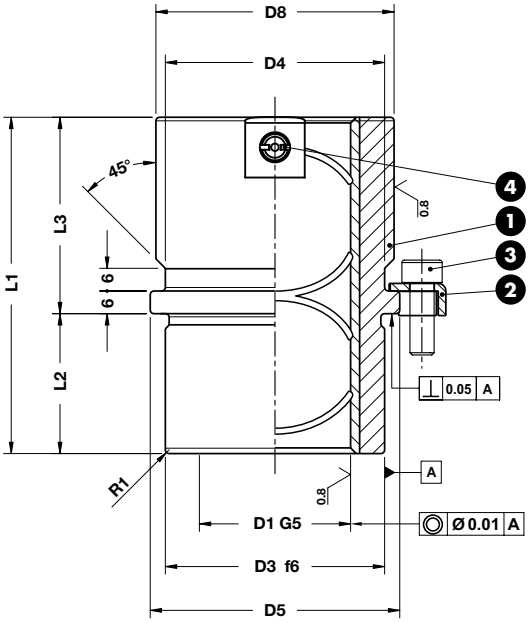


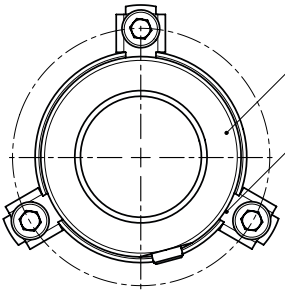
ORDER EXAMPLE

| Art. | D1=20 | L1=59 |
|---|---|---|
| E46.30. | 020 | 059 |

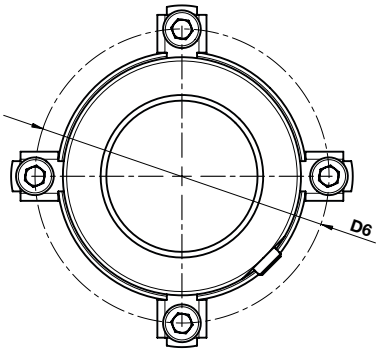
| OMCR CODE | D1 | D3 | D4 | D5 | D6 | D8 | L1 | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|
| E46.30.019059 | 19 | 32 | 32 | 40 | 52 | 39 | 59 | 23 | 36 |
| E46.30.020059 | 20 | 32 | 32 | 40 | 52 | 39 | 59 | 23 | 36 |
| E46.30.024079 | 24 | 40 | 40 | 48 | 60 | 46 | 79 | 23 | 56 |
| E46.30.025079 | 25 | 40 | 40 | 48 | 60 | 46 | 79 | 23 | 56 |
| E46.30.030093 | 30 | 48 | 48 | 56 | 67 | 53 | 93 | 30 | 63 |
| E46.30.032093 | 32 | 48 | 48 | 56 | 67 | 53 | 93 | 30 | 63 |
| E46.30.038108 | 38 | 58 | 58 | 66 | 77 | 63 | 108 | 37 | 71 |
| E46.30.040108 | 40 | 58 | 58 | 66 | 77 | 63 | 108 | 37 | 71 |
| E46.30.048127 | 48 | 70 | 70 | 80 | 91 | 77 | 127 | 47 | 80 |
| E46.30.050127 | 50 | 70 | 70 | 80 | 91 | 77 | 127 | 47 | 80 |
| E46.30.060150 | 60 | 85 | 85 | 95 | 106 | 92 | 150 | 60 | 90 |
| E46.30.063150 | 63 | 85 | 85 | 95 | 106 | 92 | 150 | 60 | 90 |
| E46.30.080150 | 80 | 105 | 105 | 118 | 129 | 115 | 150 | 60 | 90 |

**BUSH BRONZEPLATED ISO 9448-6**
**FÜHRUNGSBUCHSE MIT BUND BRONZEPLATTIERT ISO 9448-6**
**BOCCOLA CON RIPORTO IN BRONZO ISO 9448-6**




D1 = 19÷32




D1 = 38÷80



INDEX

## Notes

1. **Material:** Steel + Bronze - **HRC:** 54÷58 - **HB** > 190
2. E47.30.
3. M6x20 DIN 7984
4. Grease nipple DIN 3405 - A M8x1



STOCK ... 3D WEB

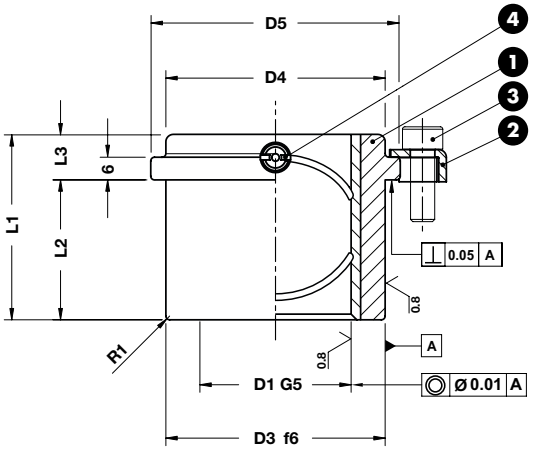


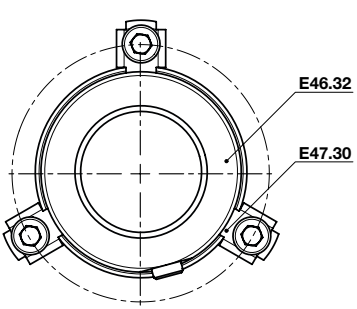
ORDER EXAMPLE

| Art. | D1=20 | L1=43 |
|---|---|---|
| E46.31. | 020 | 043 |

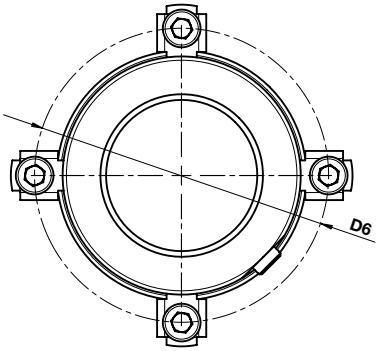
| OMCR CODE | D1 | D3 | D4 | D5 | D6 | D8 | L1 | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|
| E46.31.019043 | 19 | 32 | 32 | 40 | 52 | 39 | 43 | 23 | 20 |
| E46.31.020043 | 20 | 32 | 32 | 40 | 52 | 39 | 43 | 23 | 20 |
| E46.31.024059 | 24 | 40 | 40 | 48 | 60 | 46 | 59 | 23 | 36 |
| E46.31.025059 | 25 | 40 | 40 | 48 | 60 | 46 | 59 | 23 | 36 |
| E46.31.030075 | 30 | 48 | 48 | 56 | 67 | 53 | 75 | 30 | 45 |
| E46.31.032075 | 32 | 48 | 48 | 56 | 67 | 53 | 75 | 30 | 45 |
| E46.31.038082 | 38 | 58 | 58 | 66 | 77 | 63 | 82 | 37 | 45 |
| E46.31.040082 | 40 | 58 | 58 | 66 | 77 | 63 | 82 | 37 | 45 |
| E46.31.048097 | 48 | 70 | 70 | 80 | 91 | 77 | 97 | 47 | 50 |
| E46.31.050097 | 50 | 70 | 70 | 80 | 91 | 77 | 97 | 47 | 50 |
| E46.31.060116 | 60 | 85 | 85 | 95 | 106 | 92 | 116 | 60 | 56 |
| E46.31.063116 | 63 | 85 | 85 | 95 | 106 | 92 | 116 | 60 | 56 |
| E46.31.080120 | 80 | 105 | 105 | 118 | 129 | 115 | 120 | 60 | 60 |

**BUSH BRONZEPLATED ISO 9448-6**
**FÜHRUNGSBUCHSE MIT BUND BRONZEPLATTIERT ISO 9448-6**
**BOCCOLA CON RIPORTO IN BRONZO ISO 9448-6**




D1 = 19÷32




D1 = 38÷80

## Notes

1. **Material:** Steel + Bronze - **HRC:** 54÷58 - **HB** > 190
2. E47.30.
3. M6x20 DIN DIN 7984
4. Grease nipple DIN 3405 - A M8x1



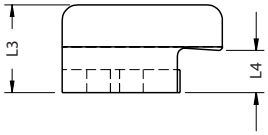
STOCK ... 3D WEB

ORDER EXAMPLE

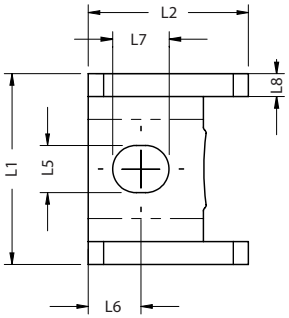
| Art. | D1=20 | L1=35 |
|---|---|---|
| E46.32. | 020 | 035 |

| OMCR CODE | D1 | D3 | D4 | D5 | D6 | L1 | L2 | L3 |
|---|---|---|---|---|---|---|---|---|
| E46.32.019035 | 19 | 32 | 32 | 40 | 52 | 35 | 23 | 12 |
| E46.32.020035 | 20 | 32 | 32 | 40 | 52 | 35 | 23 | 12 |
| E46.32.024035 | 24 | 40 | 40 | 48 | 60 | 35 | 23 | 12 |
| E46.32.025035 | 25 | 40 | 40 | 48 | 60 | 35 | 23 | 12 |
| E46.32.030042 | 30 | 48 | 48 | 56 | 67 | 42 | 30 | 12 |
| E46.32.032042 | 32 | 48 | 48 | 56 | 67 | 42 | 30 | 12 |
| E46.32.038052 | 38 | 58 | 58 | 66 | 77 | 52 | 37 | 15 |
| E46.32.040052 | 40 | 58 | 58 | 66 | 77 | 52 | 37 | 15 |
| E46.32.048065 | 48 | 70 | 70 | 80 | 91 | 65 | 47 | 18 |
| E46.32.050065 | 50 | 70 | 70 | 80 | 91 | 65 | 47 | 18 |
| E46.32.060080 | 60 | 85 | 85 | 95 | 106 | 80 | 60 | 20 |
| E46.32.063080 | 63 | 85 | 85 | 95 | 106 | 80 | 60 | 20 |
| E46.32.080080 | 80 | 105 | 105 | 118 | 129 | 80 | 60 | 20 |

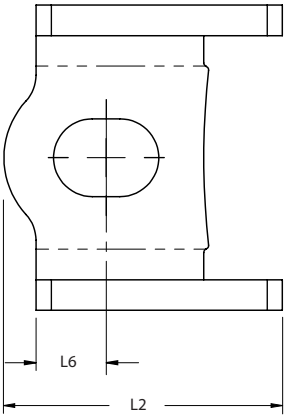
# TOE CLAMP
# HALTESTÜCK
# RITEGNO PER BOCCOLA




**FORM A**




**FORM B**



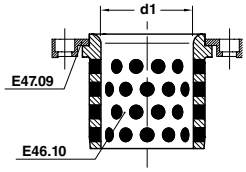



STOCK 3D WEB

## Notes

**Material:** St37

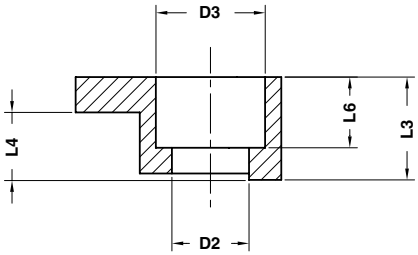
## Application example




| ORDER EXAMPLE | Art. | L1=25 | L2=21 | L3=11,5 |
|---|---|---|---|---|
| | E47.09. | 25 | 21 | 11 |

| OMCR CODE | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | FORM |
|---|---|---|---|---|---|---|---|---|---|
| E47.09.252111 | 25 | 21 | 11,5 | 5,7 | 6,2 | 6,9 | 7,4 | 3 | A |
| E47.09.403517 | 40 | 35,8 | 19 | 9,3 | 10,2 | 9,2 | 13,8 | 4 | B |

# TOE CLAMP FOR BUSH SELF-LUBRICATING DIN 9832
# HALTESTÜCK FÜR BUCHSE DIN 9832
# RITEGNO PER BOCCOLA AUTOLUBRIFICANTE DIN 9832



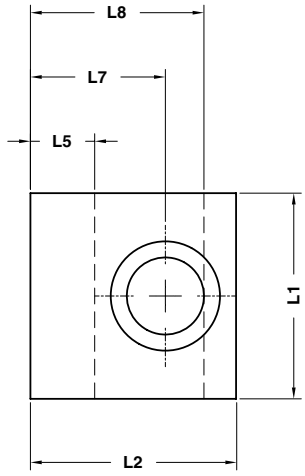



STOCK 3D WEB

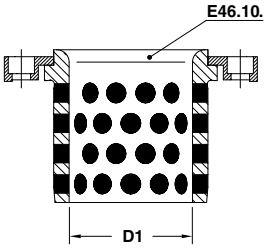
## Notes

**Material:** CK45

Screw included and delivered in plastic bag of 4 pieces each.




## Application example

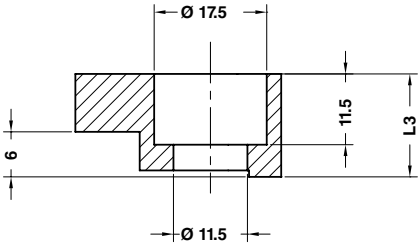


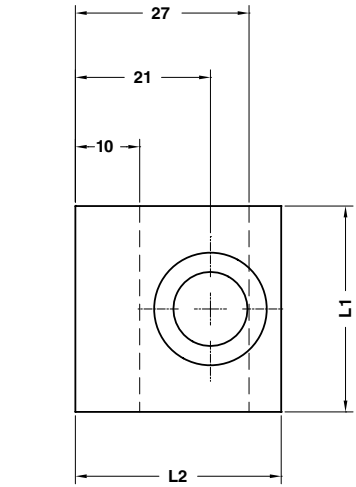

Sliding Elements

| ORDER EXAMPLE | Art. | L1=20 | L2=20 | L3=10 |
|---|---|---|---|---|
| | E47.10. | 20 | 20 | 10 |

| OMCR CODE | D1 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | D2 | D3 | Screw |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E47.10.202010 | 25÷50 | 20 | 20 | 10 | 6,3 | 5 | 7 | 12,5 | 16 | 7 | 11 | M6x16 DIN 912 |
| E47.10.323216 | 63÷160 | 32 | 32 | 16 | 10 | 10 | 11,5 | 21 | 27 | 11.5 | 18 | M10x20 DIN 912 |

# TOE CLAMP FOR BUSH SELF-LUBRICATING NAAMS
# HALTESTÜCK FÜR BUCHSE NAAMS
# RITEGNO PER BOCCOLA AUTOLUBRIFICANTE NAAMS





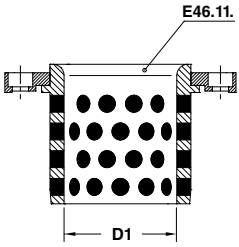

STOCK 3D WEB

## Notes

**Material:** CK45

Screw included and delivered in plastic bag of 4 pieces each.

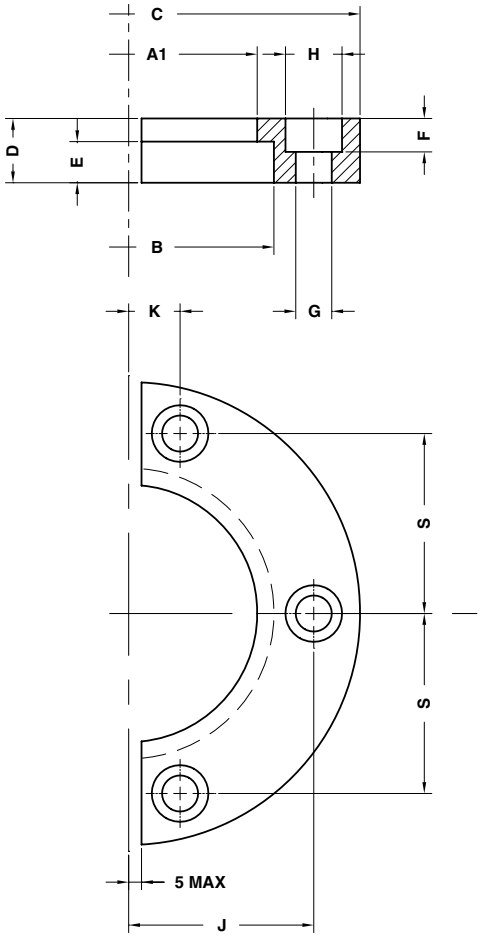
## Application example




| ORDER EXAMPLE | Art. | L1=32 | L2=32 | L3=16 |
|---|---|---|---|---|
| | E47.11. | 32 | 32 | 16 |

| OMCR CODE | L1 | L2 | L3 | Screw |
|---|---|---|---|---|
| E47.11.323216 | 32 | 32 | 16 | M10x20 DIN 912 |

# TOE CLAMP FOR BUSH SELF-LUBRICATING AFNOR
# HALTESTÜCK FÜR BUCHSE AFNOR
# RITEGNO PER BOCCOLA AUTOLUBRIFICANTE AFNOR





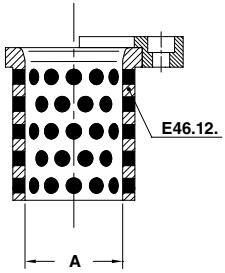

STOCK 3D WEB

## Notes

**Material:** CK45

Screw included and delivered in plastic bag of 3 pieces each.

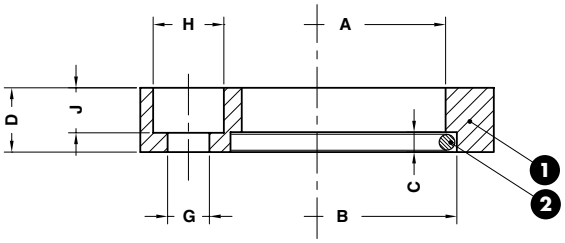
## Application example




| ORDER EXAMPLE | Art. | A=63 |
|---|---|---|
| | E47.12. | 063 |

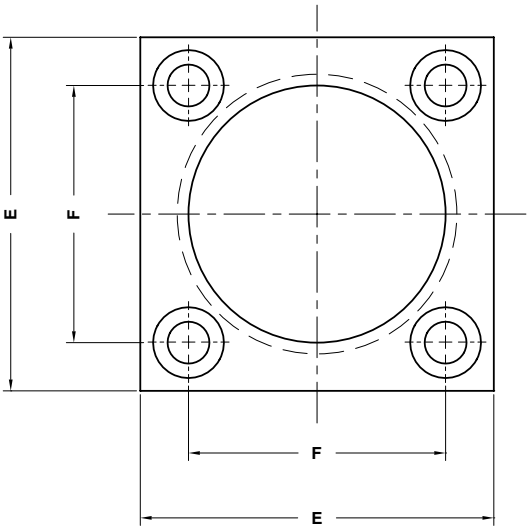
| OMCR CODE | A | A1 | B | C | D | E | F | G | H | K | J | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E47.12.025 | 25 | 32 | 41 | 72 | 10 | 5 | 7 | 6,6 | 12 | 20 | - | 20 |
| E47.12.032 | 32 | 40 | 51 | 80 | 12 | 6 | 7 | 6,6 | 12 | 21 | - | 25 |
| E47.12.040 | 40 | 50 | 61 | 100 | 12 | 8 | 7 | 6,6 | 12 | 14 | 41 | 38,5 |
| E47.12.050 | 50 | 63 | 72 | 125 | 16 | 10 | 9 | 9 | 16 | 17 | 49 | 46 |
| E47.12.063 | 63 | 80 | 91 | 140 | 20 | 12 | 11 | 11 | 18 | 17 | 57,5 | 55 |
| E47.12.080 | 80 | 100 | 113 | 180 | 25 | 16 | 13 | 14 | 22 | 20 | 72 | 70 |
| E47.12.100 | 100 | 125 | 141 | 200 | 32 | 20 | 13 | 14 | 22 | 25 | 85 | 81 |

# GUIDE POST RETAINER AFNOR
# HALTESTÜCK FÜR FÜHRUNGSSÄULE AFNOR
# RITEGNO PER COLONNA GUIDA AFNOR






STOCK ... 3D WEB




## Notes

1 **Material:** CK45

2 E47.14

Screw included and delivered in plastic bag of 4 pieces each.

| ORDER EXAMPLE | Art. | A=63 |
|---|---|---|
| | E47.13. | 063 |

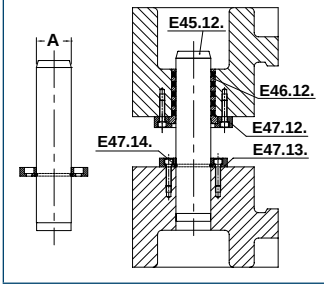
| OMCR CODE | A | B | C | D | E | F | G | H | J |
|---|---|---|---|---|---|---|---|---|---|
| E47.13.025 | 25 | 28 | 2,7 | 10 | 45 | 31 | 6,6 | 12 | 7 |
| E47.13.032 | 32 | 37 | 4,2 | 10 | 56 | 36 | 6,6 | 12 | 7 |
| E47.13.040 | 40 | 45 | 4,2 | 12 | 70 | 50 | 6,6 | 12 | 7 |
| E47.13.050 | 50 | 55 | 4,2 | 14 | 80 | 55 | 9 | 16 | 9 |
| E47.13.063 | 63 | 70 | 6,2 | 18 | 100 | 70 | 11 | 18 | 11 |
| E47.13.080 | 80 | 87 | 6,2 | 20 | 110 | 80 | 13 | 22 | 14 |
| E47.13.100 | 100 | 107 | 6,2 | 20 | 140 | 100 | 13 | 22 | 14 |

# GUIDE POST RETAINER RING AFNOR
# HALTERING FÜR FÜHRUNGSSÄULE AFNOR
# ANELLO DI TENUTA PER COLONNA GUIDA AFNOR

## Notes

**Material:** St37

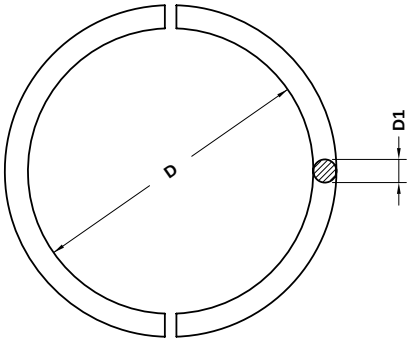
## Application example






STOCK

3D WEB




| ORDER EXAMPLE | Art. | A=63 |
|---|---|---|
| | E47.14. | 063 |

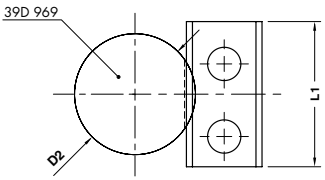
| OMCR CODE | A | D | D1 |
|---|---|---|---|
| E47.14.025 | 25 | 22,5 | 2,5 |
| E47.14.032 | 32 | 28 | 4 |
| E47.14.040 | 40 | 36 | 4 |
| E47.14.050 | 50 | 46 | 4 |
| E47.14.063 | 63 | 57 | 6 |
| E47.14.080 | 80 | 74 | 6 |
| E47.14.100 | 100 | 94 | 6 |

# RETAINER
# SICHERUNGSPLATTE
# PIASTRINA

## Notes

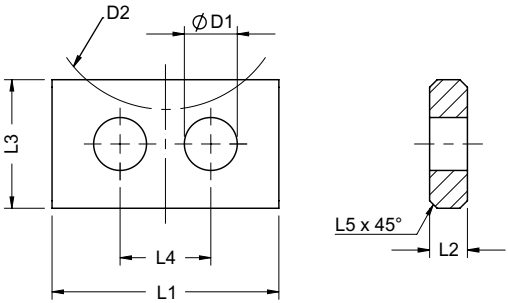
**Material:** St37

## Application example

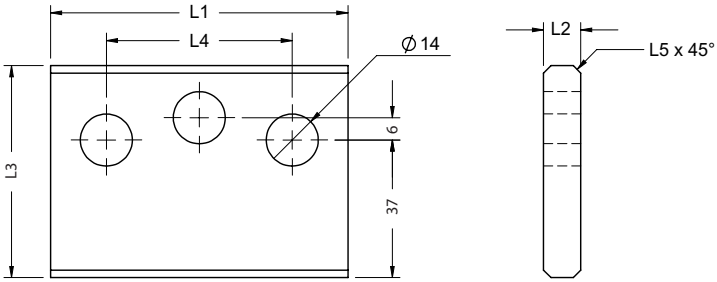





STOCK 3D WEB




**FORM A**




**FORM B**

| ORDER EXAMPLE | Art. | L1=40 | L2=5 | L3=20 |
|---|---|---|---|---|
| | E47.15. | 040 | 05 | 020 |

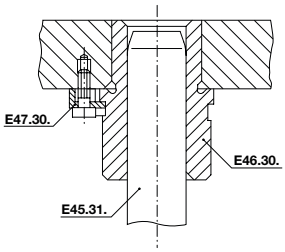
| OMCR CODE | L1 | L2 | L3 | L4 | L5 | D1 | D2 | FORM |
|---|---|---|---|---|---|---|---|---|
| E47.15.04005020 | 40 | 5 | 20 | 20 | 1 | 9 | 25 - 32 | A |
| E47.15.04808025 | 48 | 8 | 25 | 24 | 2 | 11 | 40 - 50 | A |
| E47.15.06010034 | 60 | 10 | 34 | 30 | 2 | 14 | 63 - 80 | A |
| E47.15.06010057 | 80 | 10 | 57 | 50 | 2 | 15 | 100-125 | B |

# TOE CLAMP
# HALTESTÜCK
# RITEGNO

## Notes

**Material:** Steel
Screw not included

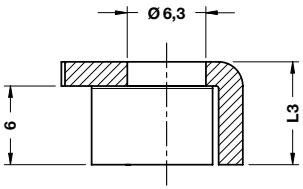
## Application example

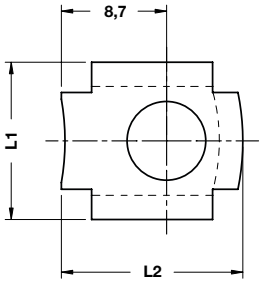





STOCK

3D WEB






ORDER EXAMPLE

| Art. | L1=13 | L2=15 | L3=8,5 |
|---|---|---|---|
| E47.30. | 13 | 15 | 85 |

| OMCR CODE | L1 | L2 | L3 | Screw |
|---|---|---|---|---|
| E47.30.131585 | 13 | 15 | 8,5 | M6x20 DIN 7984 |

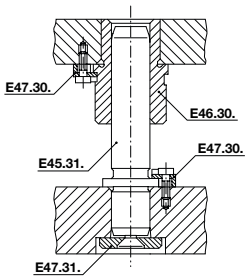
# RETAINING DISC
# HALTESCHEIBE
# DISCO DI FISSAGGIO

## Notes

**Material:** CK45

Screw not included

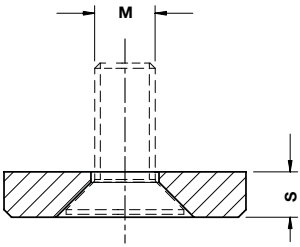
## Application example

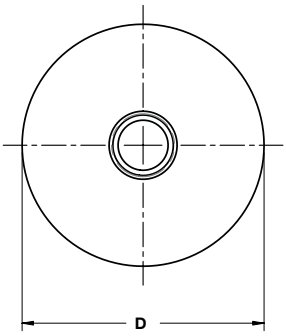





STOCK

3D WEB



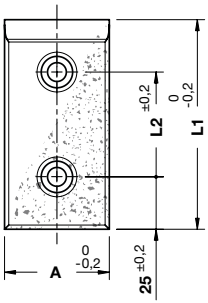




ORDER EXAMPLE

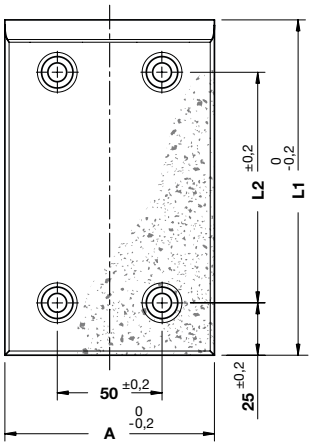
| Art. | D= 25 |
|---|---|
| E47.31. | 025 |

| OMCR CODE | D | S | M |
|---|---|---|---|
| E47.31.022 | 22 | 6 | 8 |
| E47.31.025 | 25 | 6 | 8 |
| E47.31.032 | 32 | 6 | 8 |
| E47.31.040 | 40 | 6 | 8 |
| E47.31.050 | 50 | 6 | 8 |
| E47.31.060 | 60 | 6 | 8 |
| E47.31.070 | 70 | 6 | 8 |
| E47.31.093 | 93 | 12 | 12 |

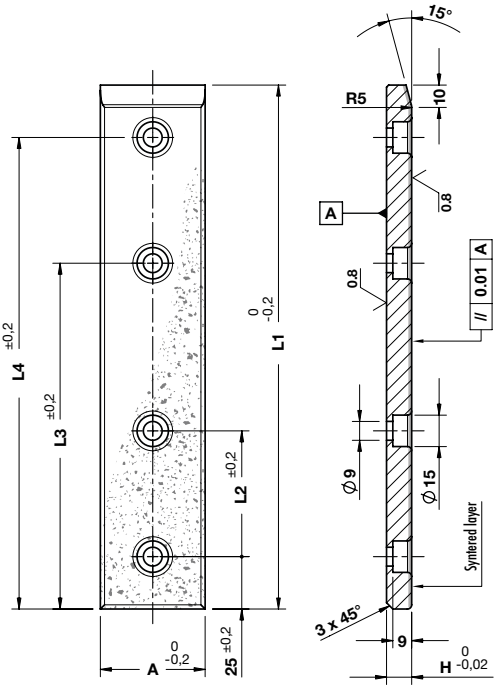
# SINTERED STEEL WEAR PLATE TYPE VDI 3357
# GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE TIP VDI 3357
# PIASTRA GUIDA IN ACCIAIO SINTERIZZATO TIPO VDI 3357



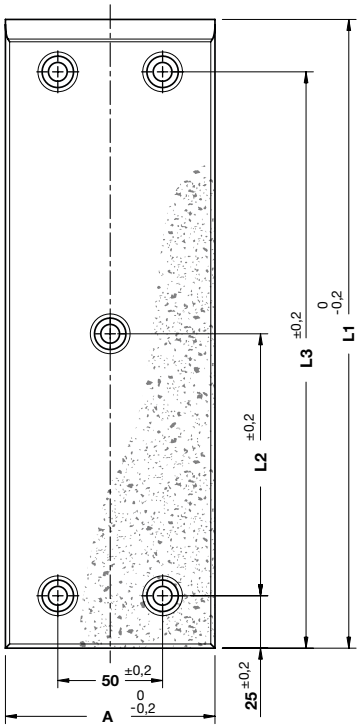

FORM A




FORM B




FORM C




FORM D



INDEX

## Notes

**Material:** Steel + SINT300®

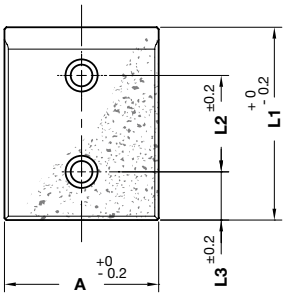


STOCK | WEB

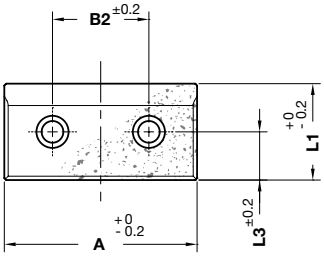
| ORDER EXAMPLE | Art. | A=50 | H=12 | L1=80 |
|---|---|---|---|---|
| | E50.06. | 050 | 12 | 080 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | FORM |
|---|---|---|---|---|---|---|---|
| E50.06.03012080 | 30 | 12 | 80 | 30 | - | - | A |
| E50.06.03012100 | 30 | 12 | 100 | 50 | - | - | A |
| E50.06.03012125 | 30 | 12 | 125 | 75 | - | - | A |
| E50.06.03012160 | 30 | 12 | 160 | 110 | - | - | A |
| E50.06.03012200 | 30 | 12 | 200 | 150 | - | - | A |
| E50.06.04012080 | 40 | 12 | 80 | 30 | - | - | A |
| E50.06.04012100 | 40 | 12 | 100 | 50 | - | - | A |
| E50.06.04012125 | 40 | 12 | 125 | 75 | - | - | A |
| E50.06.04012160 | 40 | 12 | 160 | 110 | - | - | A |
| E50.06.04012200 | 40 | 12 | 200 | 150 | - | - | A |
| E50.06.05012080 | 50 | 12 | 80 | 30 | - | - | A |
| E50.06.05012100 | 50 | 12 | 100 | 50 | - | - | A |
| E50.06.05012125 | 50 | 12 | 125 | 75 | - | - | A |
| E50.06.05012160 | 50 | 12 | 160 | 110 | - | - | A |
| E50.06.05012200 | 50 | 12 | 200 | 150 | - | - | A |
| E50.06.05012250 | 50 | 12 | 250 | 60 | 165 | 225 | C |
| E50.06.05012300 | 50 | 12 | 300 | 80 | 195 | 275 | C |
| E50.06.05012350 | 50 | 12 | 350 | 100 | 225 | 325 | C |
| E50.06.05012400 | 50 | 12 | 400 | 120 | 255 | 375 | C |
| E50.06.06012080 | 60 | 12 | 80 | 30 | - | - | A |
| E50.06.06012100 | 60 | 12 | 100 | 50 | - | - | A |
| E50.06.06012125 | 60 | 12 | 125 | 75 | - | - | A |
| E50.06.06012160 | 60 | 12 | 160 | 110 | - | - | A |
| E50.06.06012200 | 60 | 12 | 200 | 150 | - | - | A |
| E50.06.08012080 | 80 | 12 | 80 | 30 | - | - | A |
| E50.06.08012100 | 80 | 12 | 100 | 50 | - | - | A |
| E50.06.08012125 | 80 | 12 | 125 | 75 | - | - | A |
| E50.06.08012160 | 80 | 12 | 160 | 110 | - | - | A |
| E50.06.08012200 | 80 | 12 | 200 | 150 | - | - | A |
| E50.06.10012125 | 100 | 12 | 125 | 75 | - | - | B |
| E50.06.10012160 | 100 | 12 | 160 | 110 | - | - | B |
| E50.06.10012200 | 100 | 12 | 200 | 150 | - | - | B |
| E50.06.10012250 | 100 | 12 | 250 | 200 | - | - | B |
| E50.06.10012300 | 100 | 12 | 300 | 125 | 275 | - | D |

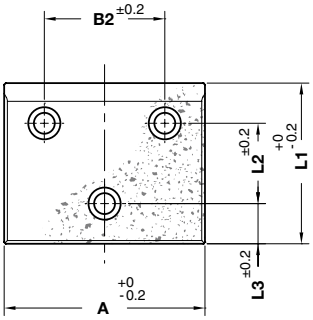
## SINTERED STEEL WEAR PLATE TYPE VDI 3357
## GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE TIP VDI 3357
## PIASTRA GUIDA IN ACCIAIO SINTERIZZATO TIPO VDI 3357



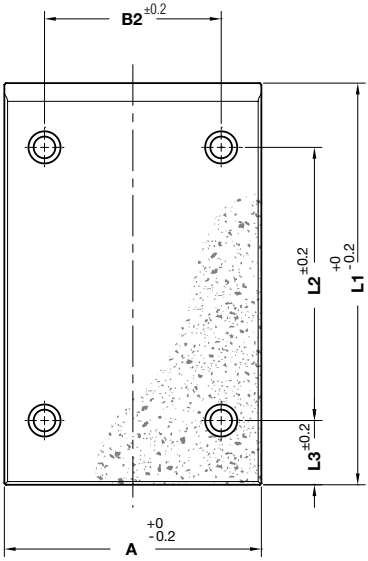

**FORM A**



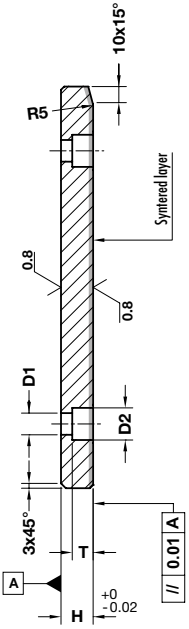

**FORM B**




**FORM C**




**FORM D**



## Notes

**Material:** Steel + SINT300®



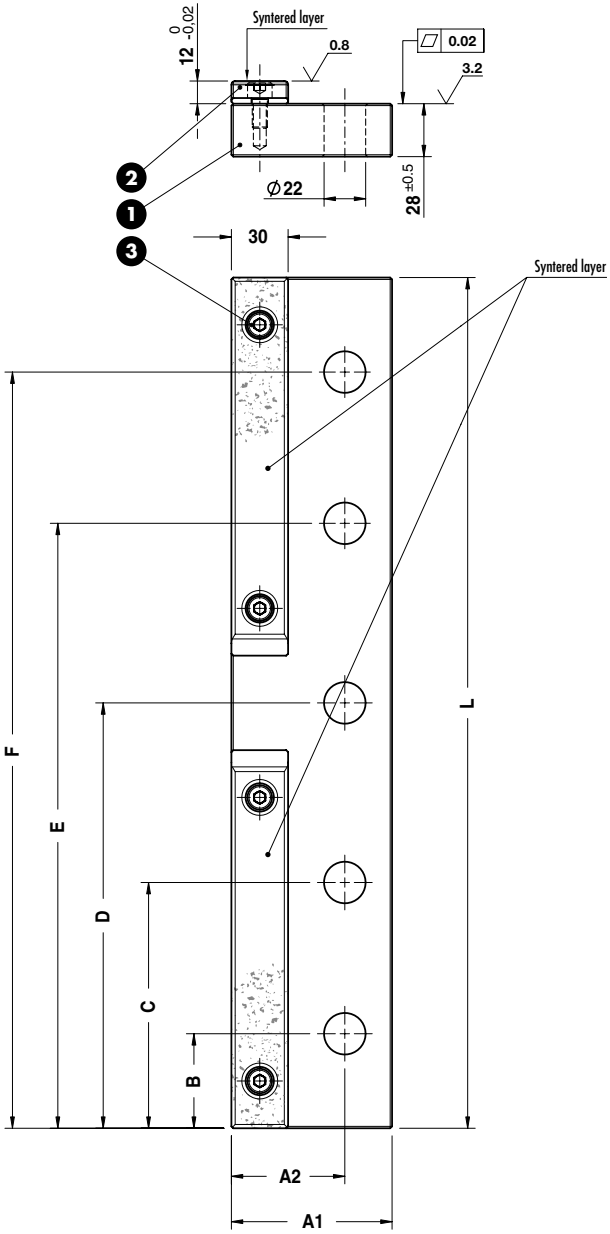
STOCK

WEB

| ORDER EXAMPLE | Art. | A=125 | H=20 | L1=50 |
|---|---|---|---|---|
| | E50.12. | 125 | 20 | 050 |

| OMCR CODE | A | H | L1 | B2 | L2 | L3 | D1 | D2 | T | Form |
|---|---|---|---|---|---|---|---|---|---|---|
| E50.12.05020080 | 50 | 20 | 80 | - | 30 | 25 | 9 | 15 | 9 | A |
| E50.12.05020100 | 50 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E50.12.05020125 | 50 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E50.12.05020160 | 50 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E50.12.05020200 | 50 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E50.12.08020050 | 80 | 20 | 50 | 30 | - | 25 | 9 | 15 | 9 | B |
| E50.12.08020080 | 80 | 20 | 80 | - | 30 | 25 | 13,5 | 20 | 13 | A |
| E50.12.08020100 | 80 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E50.12.08020125 | 80 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E50.12.08020160 | 80 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E50.12.08020200 | 80 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E50.12.08020250 | 80 | 20 | 250 | - | 170 | 40 | 13,5 | 20 | 13 | A |
| E50.12.10020050 | 100 | 20 | 50 | 50 | - | 25 | 13,5 | 20 | 13 | B |
| E50.12.10020080 | 100 | 20 | 80 | 50 | - | 40 | 13,5 | 20 | 13 | B |
| E50.12.10020100 | 100 | 20 | 100 | - | 50 | 25 | 13,5 | 20 | 13 | A |
| E50.12.10020125 | 100 | 20 | 125 | - | 75 | 25 | 13,5 | 20 | 13 | A |
| E50.12.10020160 | 100 | 20 | 160 | - | 110 | 25 | 13,5 | 20 | 13 | A |
| E50.12.10020200 | 100 | 20 | 200 | - | 150 | 25 | 13,5 | 20 | 13 | A |
| E50.12.10020250 | 100 | 20 | 250 | - | 170 | 40 | 13,5 | 20 | 13 | A |
| E50.12.10020315 | 100 | 20 | 315 | - | 235 | 40 | 13,5 | 20 | 13 | A |
| E50.12.12520050 | 125 | 20 | 50 | 75 | - | 25 | 13,5 | 20 | 13 | B |
| E50.12.12520080 | 125 | 20 | 80 | 75 | - | 40 | 13,5 | 20 | 13 | B |
| E50.12.12520100 | 125 | 20 | 100 | 75 | 50 | 25 | 13,5 | 20 | 13 | C |
| E50.12.12520125 | 125 | 20 | 125 | 75 | 75 | 25 | 13,5 | 20 | 13 | C |
| E50.12.12520160 | 125 | 20 | 160 | 75 | 110 | 25 | 13,5 | 20 | 13 | C |
| E50.12.12520200 | 125 | 20 | 200 | 75 | 150 | 25 | 13,5 | 20 | 13 | C |
| E50.12.12520250 | 125 | 20 | 250 | 75 | 170 | 40 | 13,5 | 20 | 13 | C |
| E50.12.12520315 | 125 | 20 | 315 | 75 | 235 | 40 | 13,5 | 20 | 13 | C |
| E50.12.16020050 | 160 | 20 | 50 | 110 | - | 25 | 13,5 | 20 | 13 | B |
| E50.12.16020080 | 160 | 20 | 80 | 110 | - | 40 | 13,5 | 20 | 13 | B |
| E50.12.16020100 | 160 | 20 | 100 | 110 | 50 | 25 | 13,5 | 20 | 13 | C |
| E50.12.16020125 | 160 | 20 | 125 | 110 | 75 | 25 | 13,5 | 20 | 13 | C |
| E50.12.16020160 | 160 | 20 | 160 | 110 | 110 | 25 | 13,5 | 20 | 13 | C |
| E50.12.16020200 | 160 | 20 | 200 | 110 | 150 | 25 | 13,5 | 20 | 13 | C |
| E50.12.16020250 | 160 | 20 | 250 | 110 | 170 | 40 | 13,5 | 20 | 13 | D |
| E50.12.16020315 | 160 | 20 | 315 | 110 | 235 | 40 | 13,5 | 20 | 13 | D |

**SINTERED STEEL WEAR PLATE**
**GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE**
**PIASTRA GUIDA IN ACCIAIO SINTERIZZATO**



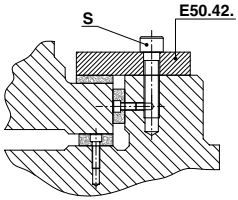



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## Notes

1. **Material:** CK45
2. E50.06.
3. DIN 912 M8x16

## Application example



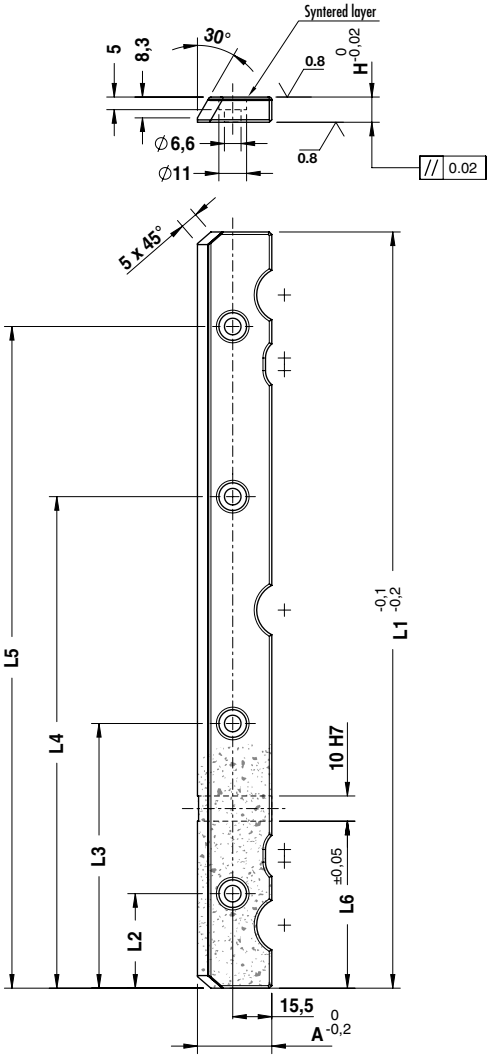



10 ... 3D WEB

| ORDER EXAMPLE | Art. | A1=85 | L=200 |
|---|---|---|---|
| | E50.42. | 085 | 200 |

| OMCR CODE | A1 | L | A2 | B | C | D | E | F | S |
|---|---|---|---|---|---|---|---|---|---|
| E50.42.085160 | 85 | 160 | 60 | 45 | 115 | - | - | - | Nr2 - M20x60 |
| E50.42.085200 | 85 | 200 | 60 | 45 | 155 | - | - | - | Nr2 - M20x60 |
| E50.42.085250 | 85 | 250 | 60 | 45 | 125 | 205 | - | - | Nr3 - M20x60 |
| E50.42.085300 | 85 | 300 | 60 | 45 | 150 | 255 | - | - | Nr3 - M20x60 |
| E50.42.085350 | 85 | 350 | 60 | 45 | 175 | 305 | - | - | Nr3 - M20x60 |
| E50.42.085400 | 85 | 400 | 60 | 45 | 125 | 200 | 275 | 355 | Nr5 - M20x60 |
| E50.42.085450 | 85 | 450 | 60 | 50 | 130 | 225 | 320 | 400 | Nr5 - M20x60 |
| E50.42.085500 | 85 | 500 | 60 | 50 | 130 | 250 | 370 | 450 | Nr5 - M20x60 |
| E50.42.125160 | 125 | 160 | 75 | 45 | 115 | - | - | - | Nr2 - M20x60 |
| E50.42.125200 | 125 | 200 | 75 | 45 | 155 | - | - | - | Nr2 - M20x60 |
| E50.42.125250 | 125 | 250 | 75 | 45 | 125 | 205 | - | - | Nr3 - M20x60 |
| E50.42.125300 | 125 | 300 | 75 | 45 | 150 | 255 | - | - | Nr3 - M20x60 |
| E50.42.125350 | 125 | 350 | 75 | 45 | 175 | 305 | - | - | Nr3 - M20x60 |
| E50.42.125400 | 125 | 400 | 75 | 45 | 125 | 200 | 275 | 355 | Nr5 - M20x60 |
| E50.42.125450 | 125 | 450 | 75 | 50 | 130 | 225 | 320 | 400 | Nr5 - M20x60 |
| E50.42.125500 | 125 | 500 | 75 | 50 | 130 | 250 | 370 | 450 | Nr5 - M20x60 |

# SINTERED STEEL WEAR PLATE
# GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE
# PIASTRA GUIDA IN ACCIAIO SINTERIZZATO



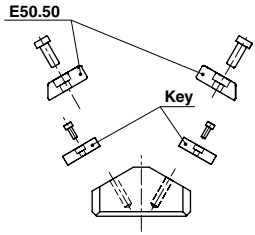



10 | WEB

## Notes

**Material:** Steel + SINT300®

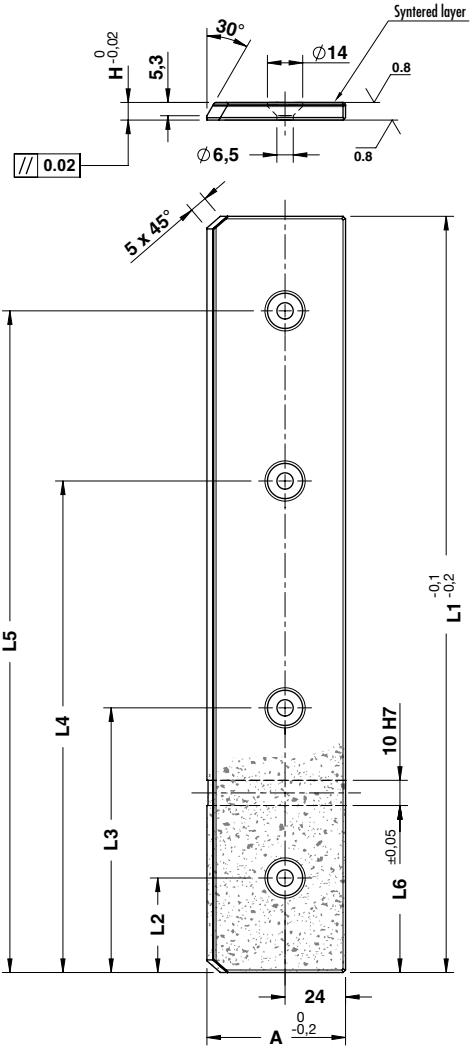
## Application example




| ORDER EXAMPLE | Art. | A=29,5 | H=10 | L1=200 |
|---|---|---|---|---|
| | E50.50 | 030 | 10 | 200 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | L5 | L6 |
|---|---|---|---|---|---|---|---|---|
| E50.50.03010150 | 29,5 | 10 | 150 | 18,5 | 75 | 131,5 | - | 36 |
| E50.50.03010200 | 29,5 | 10 | 200 | 30,5 | 100 | 169,5 | - | 70 |
| E50.50.03010250 | 29,5 | 10 | 250 | 35 | 90 | 160 | 215 | 70 |
| E50.50.03010300 | 29,5 | 10 | 300 | 37,5 | 105 | 195 | 262,5 | 66,25 |

# SINTERED STEEL WEAR PLATE
# GLEITPLATTE STAHL MIT SINTERGLEITFLÄCHE
# PIASTRA GUIDA IN ACCIAIO SINTERIZZATO



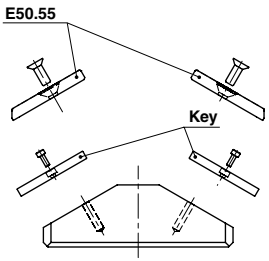



10 3D WEB

## Notes

**Material:** Steel + SINT300®

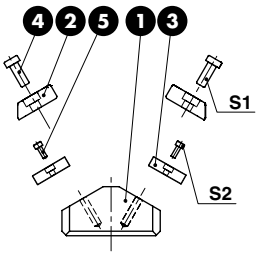
## Application example

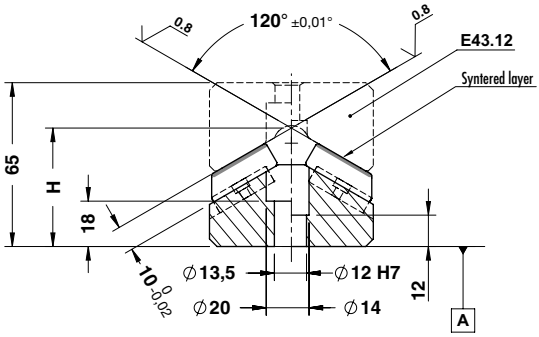


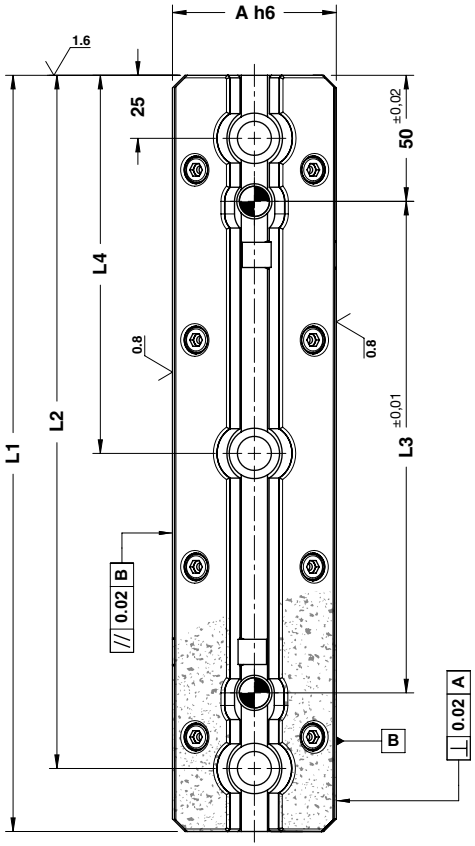

| ORDER EXAMPLE | Art. | A=30 | H=7 | L1=200 |
|---|---|---|---|---|
| | E50.55 | 030 | 07 | 200 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | L5 | L6 |
|---|---|---|---|---|---|---|---|---|
| E50.55.05507150 | 55 | 7 | 150 | 18,5 | 75 | 131,5 | - | 36 |
| E50.55.05507200 | 55 | 7 | 200 | 30,5 | 100 | 169,5 | - | 70 |
| E50.55.05507250 | 55 | 7 | 250 | 35 | 90 | 160 | 215 | 70 |
| E50.55.05507300 | 55 | 7 | 300 | 37,5 | 105 | 195 | 262,5 | 66,25 |

**SINTERED "V" DRIVER**
**PRISMENFÜHRUNG STAHL MIT SINTERGLEITFLÄCHE**
**GUIDA A "V" IN ACCIAIO SINTERIZZATO**



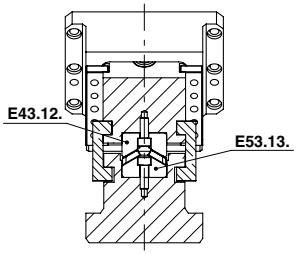



## Notes

1. **Material:** Steel
2. E50.50
3. Key - **Material:** CK45
4. DIN 7984 - M6 x 16
5. DIN 912 - M3 x 8

## Application example





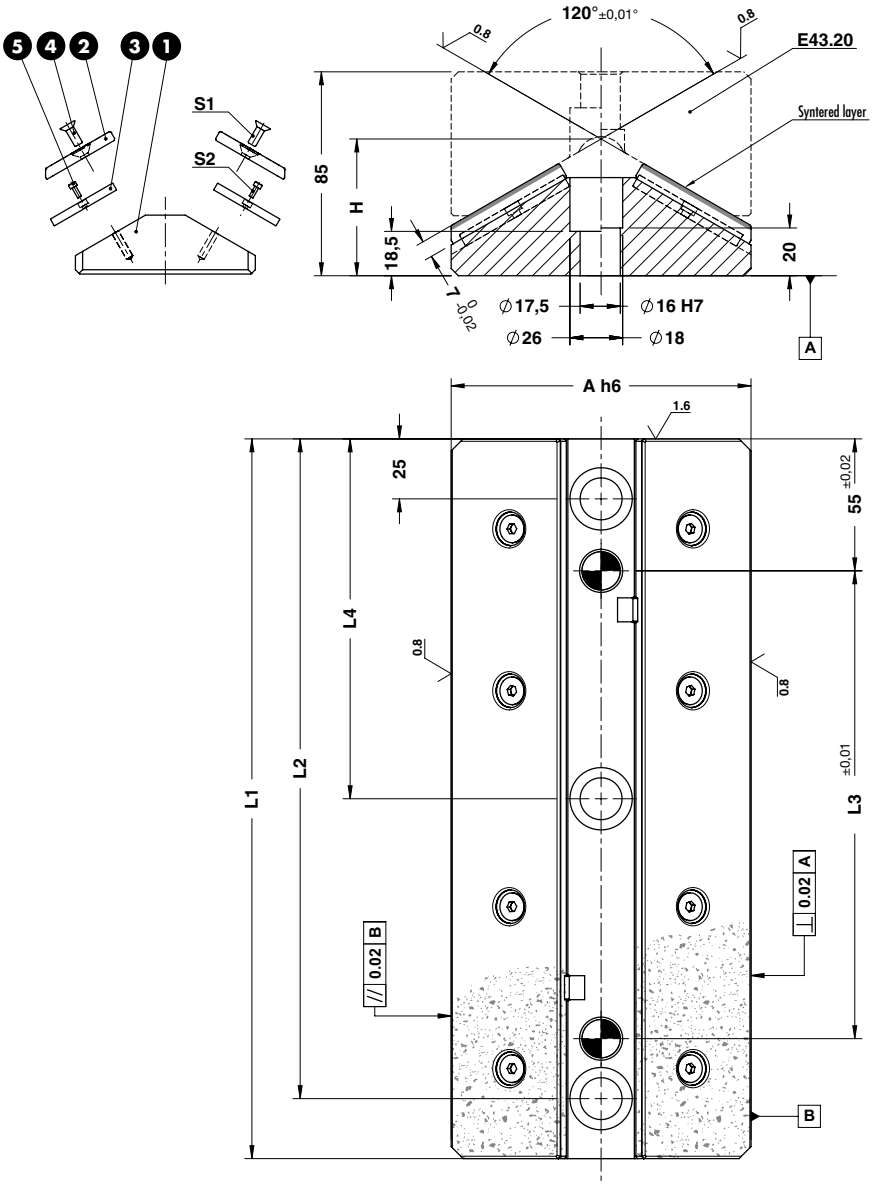

10 ... WEB



| ORDER EXAMPLE | Art. | A=65 | H=47 | L1=200 |
|---|---|---|---|---|
| | E53.13. | 065 | 47 | 200 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | S1 | S2 |
|---|---|---|---|---|---|---|---|---|
| **E53.13.06547150** | 65 | 47 | 150 | 125 | 45 | - | Nr6 - M6 x 16 | Nr2 - M3 x 8 |
| **E53.13.06547200** | 65 | 47 | 200 | 175 | 95 | - | Nr6 - M6 x 16 | Nr2 - M3 x 8 |
| **E53.13.06547250** | 65 | 47 | 250 | 225 | 145 | 125 | Nr8 - M6 x 16 | Nr2 - M3 x 8 |
| **E53.13.06547300** | 65 | 47 | 300 | 275 | 195 | 150 | Nr8 - M6 x 16 | Nr2 - M3 x 8 |

**SINTERED "V" DRIVER**
**PRISMENFÜHRUNG STAHL MIT SINTERGLEITFLÄCHE**
**GUIDA A "V" IN ACCIAIO SINTERIZZATO**



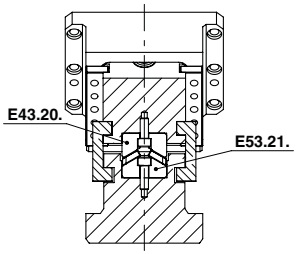



INDEX

## Notes

1. **Material:** Steel
2. E50.55
3. Key - **Material:** CK45
4. DIN 7984 - M6 x 16
5. DIN 912 - M3 x 8

## Application example






10 ... WEB



ORDER EXAMPLE

| Art. | A=125 | H=57 | L1=200 |
|---|---|---|---|
| E53.21. | 125 | 57 | 200 |

| OMCR CODE | A | H | L1 | L2 | L3 | L4 | S1 | S2 |
|---|---|---|---|---|---|---|---|---|
| **E53.21.12557150** | 125 | 57 | 150 | 125 | 45 | - | Nr6 - M6 x 16 | Nr2 - M3 x 8 |
| **E53.21.12557200** | 125 | 57 | 200 | 175 | 95 | - | Nr6 - M6 x 16 | Nr2 - M3 x 8 |
| **E53.21.12557250** | 125 | 57 | 250 | 225 | 145 | 125 | Nr8 - M6 x 16 | Nr2 - M3 x 8 |
| **E53.21.12557300** | 125 | 57 | 300 | 275 | 195 | 150 | Nr8 - M6 x 16 | Nr2 - M3 x 8 |



# Wire Springs
# Schraubendruckfedern
# Molle a Filo

OMCR®
STANDARD DIE COMPONENTS

MAIN INDEX

# Wire Springs
# Schraubendruckfedern
# Molle a Filo

GB Springs are mechanical parts, that in working condition are having elastic deformations, without permanent deformations.OMCR offers a wide range in this catalog, which allows for different classes of load for the same diameter.The more widespread use is in the dies for sheet metal working, here die springs are avoiding wrinkles and making easier the extraction of the punches. However recently die springs have started to be used in other areas, such as plastic molding and industrial applications.

D Federn sind mechanische Bauteile, die sich bei Belastung elastisch verformen, jedoch danach wieder in ihren Ursprungszustand zurückkehren. Druckfedern sind so konzipiert, dass sie großen Kräften auf engsten Raum standhalten. Druckfedern der Firma OMCR finden ihren Einsatz hauptsächlich bei der Blechbearbeitung. Sie dienen zur Vermeidung von Faltenbildung und erleichtern das Herausziehen der Stempelwerkzeuge während der Blechbearbeitung. Die Druckfedern werden seit einigen Jahren in vielen Bereichen der Industrie eingesetzt.

I Le molle sono elementi meccanici che in esercizio subiscono deformazioni elastiche, senza presentare deformazioni permanenti. Le molle sono studiate per sopportare carichi elevati in ingombri limitati. Esse sono molto diffuse negli stampi per la lavorazione della lamiera, in cui consentono di evitare le grinze e agevolare l'estrazione dei punzoni. Tuttavia nel tempo si sono notevolmente diffuse anche nello stampaggio della plastica e in svariate applicazioni industriali.

OMCR®

STANDARD DIE COMPONENTS



## GB DIE SPRINGS FEATURES

Springs are manufactured, using special high performance steels and designed to withstand high loads in restricted spaces. Through the continuous improvement, high quality springs, are manufactured by modern equipments and reliable production processes.Springs production processes have very low environmental impact and our products are fulfully compliant to RoHS and Reach specs.The certifications according to ISO TS 16949, ISO 9001 and ISO 14001 *(Environment) are evidences of our efforts in satisfying the customer through a sustanible production.The high quality of the springs is confirmed by the excellent results of endurance and life fatigue tests daily leaded in Q/dept. In this catalog OMCR offers a wide range of die springs, so that you could have different loads in the same dimensions,diameter and lenght.

## CRITERIA FOR SELECTION ON WIRE SPRINGS

For obtaining excellent performances by the die springs, it is very important to figure out the most appropriate one in terms of loads and stress.An inaccurate choice of the die springs can compromise the functionality of the application, causing early breakages Here below we present some considerations and diagrams, useful for helping the user in choosing the most appropriate spring for its own application.This criteria is based on fBL (solid block), i.e the maximum deflection available for the spring. Picture 1 shows the “Working Conditions” of springs. The spring is preloaded to f1and to cyclically stressed till to f2 (working deflection). The graph in Figure 2, “Conditions of Work and Fatigue Resistance”, expresses the relationship between the percentage of use of the solid block (%fBL) and stress (τ):,the stress (τ) increases, as much as %fBL groves The graph suggests to use springs giving them a pre-load (f1) of at least 13% of fBL;it doesn’t recommend to apply to springs a working deflection (f 2) over 80% of fBL (1). For the selection and verification of the correct use of springs, it is preferred to convert f1and f2, as percentages of the Solid Block fBL, respectively %1=f1/fBL x100 e %2=f2/fBLx100 The color scale provides a qualitative indication of the fatigue life.So, we deduce from the graph that subjecting a spring to low stress and limiting the use of fBL% (left side of the graph), we obtain a greater fatigue life. On the other side submitting the spring to high stresses and/or extensive use of fBL% (right side of the graph), the chance of early breaking increases.

## USE RECOMANDATION

Springs are designed for being used in normal environmental conditions (temperature from -5° to 70°C, non-aggressive atmosphere, etc.) and they have several applications.OMCR strongly discourages to use the springs overlapped in vertical group and recommends to guide the springs during their use.Please note that the contents of the catalog are based on experimental data. Information on the fatigue life are qualitative and the duration is expected to be reached or exceeded by 90% of the springs belonging to the same production batch.

## (D) EINFUHRUNG

Federn sind mechanische Bauteile, die sich bei Belastung elastisch verformen, jedoch danach wieder in ihren Ursprungszustand zurückkehren. Druckfedern sind so konzipiert, dass sie großen Kräften auf engsten Raum standhalten. Druckfedern der Firma OMCR finden ihren Einsatz hauptsächlich bei der Blechbearbeitung. Sie dienen zur Vermeidung von Faltenbildung und erleichtern das Herausziehen der Stempelwerkzeuge während der Blechbearbeitung. Die Druckfedern werden seit einigen Jahren in vielen Bereichen der Industrie eingesetzt.

## EIGENSCHAFTEN DER SCHRAUBENDRUCKFEDERN

Die Druckfedern sind aus hochfesten Federstahldrähten gefertigt, die höchste Leistung auf engsten Raum gewährleisten.Das etablierte Umweltmanagement steht für sichere und effiziente Produktionsverfahren, der nach ISO TS 16949 und der ISO 14001 (Umweltschutz) zertifiziert ist. Unsere Produkte halten alle strengen Richtlinien für gefährliche Stoffe (RoHS und Reach) ein. Sie werden einer ständigen Qualitätskontrolle unterzogen.Auf speziellen Prüfanlagen werden Dauertests gefahren.

## AUSWAHLKRITERIEN FUR SCHRAUBENDRUCKFEDERN

Die „falsche“ Berechnung der Druckfeder kann die Lebensdauer beeinträchtigen und kann zu Funktionsstörungen oder sogar Brüchen führen. Vor der Berechnung sollten die Anforderungen bezüglich der Abmessung der Federn, der geforderte Federweg, die Federkraft und die Beanspruchung der Feder genau definiert werden. Die folgenden Ausführungen und Diagramme können Ihnen bei der Auswahl ihrer Federn helfen. Das Diagramm „fig.1“ zeigt die Arbeitsbedingung. Die Druckfeder wird vorgespannt auf f1 (Vorspannweg) und zyklisch beansprucht bis f2 (Endfederweg). Das Diagramm „fig.2“ zeigt die Arbeitsbedingungen und den Dauerfestigkeitsbereich. Es wird das Verhältnis zwischen den Spannung ($\tau$) und der % Blockweges angezeigt (%fBL)Das Diagramm empfiehlt einen Vorspannweg (f1) für die Druckfeder von mindestens 13 % fBL und rät von einem Federweg von über 80% fBL ab. Die farbliche Darstellung zeigt die zu erwartene Dauerfestigkeit der Feder. Gruener Bereich: optimaler Einsatzbereich Die Federn sind geringeren Belastung ausgesetzt: Gelber Bereich: Grenzbereich.Die Federn sind Belastungen ausgesetzt, die die Dauerfestigkeit verringern koennen. Roter Bereich: niedrige Dauerfestigkeit, Bruchgefahr.

## BENUTZERHINWEISE

Alle Federn sind für Temperaturen von -5° C bis ca. 100° C ausgelegt. Es muss darauf geachtet werden, dass die Federn nicht für einen Gebrauch in aggressiven Atmosphären gedacht sind. Jegliche Abweichung kann zur Beeinträchtigung der Leistungen der Druckfedern führen.Wir raten davor ab, die Druckfedern ohne vollständige Führung übereinander zu setzen. Alle im Katalog genannten Daten beruhen auf jahrelange Erfahrungswerte.Die Angaben zur Dauerfestigkeit sind qualitativ, und es wird erwartet, dass 90 % der Federn einer Charge die erwartete Lebensdauer erreichen oder überschreiten.

## CARATTERISTICHE DELLE MOLLE A FILO

Le molle OMCR sono molle di elevata qualità, realizzate con acciai speciali ad alte prestazioni. I materiali vengono trasformati da moderni macchinari, attraverso processi produttivi affidabili e migliorati costantemente. I processi produttivi sono a limitato impatto ambientale, certificati da un sistema di gestione ambientale conforme alla ISO 14001 e rispettano le direttive RoHs e Reach, circa l'assenza di sostanze pericolose. Un sistema di gestione per la Qualità, certificato secondo la ISO/TS16949 è un ulteriore garanzia di competenza e professionalità per gli utilizzatori finali. Ma sono i severi test di durata a fatica, quotidianamente effettuati sui banchi di prova, a confermare l'elevato livello di affidabilità delle nostre molle.

## CRITERI DI SCELTA DELLE MOLLE A FILO

La scelta della molla corretta per dimensioni, carichi e sollecitazioni è il prerequisito per un funzionamento efficace ed efficiente dell'applicazione in cui è usata. La scelta della molla non idonea per un'applicazione, può comportare un cattivo funzionamento del sistema o problemi di rotture.Nel seguito riportiamo delle considerazioni e dei grafici che possono aiutare l'utilizzatore nella scelta della molla più idonea per la propria applicazione. Tali considerazioni si basano sulla fBL (freccia a blocco), ossia la massima deflessione possibile per la molla. Il disegno in fig.1 mostra le "Condizioni di Lavoro" . La molla viene precaricata a f1 e sollecitata ciclicamente fino a f2(freccia di lavoro).Il grafico di fig.2, "Condizioni di Lavoro e Resistenza a Fatica", esprime la relazione tra la percentuale di utilizzo della freccia a blocco (%fBL) e la sollecitazione unitaria ($\tau$) : al crescere di %fBL, cresce il valore della sollecitazione unitari a($\tau$) . Il grafico raccomanda di utilizzare le molle con una precarica (f1) pari almeno 13% fBL., mentre sconsiglia di sottoporre le molle a frecce di lavoro (f2) oltre 80% fBL(1).La scala cromatica fornisce un'indicazione qualitativa della resistenza a fatica.Quindi dal grafico deduciamo che sottoponendo una molla a basse sollecitazioni e limitato utilizzo della %fBL (parte sx del grafico), si ottiene una maggiore resistenza a fatica. Al contrario applicando alla molla elevate sollecitazioni e/o ampio utilizzo della %fBL.(zona dx del grafico), aumenta la possibilità di rotture precoci.

## RACCOMANDAZIONI PER L'UTILIZZO

Tutte le molle sono progettate per un utilizzo in condizioni ambientali normali (temperature -5° ÷100°C, atmosfera non aggressiva, ecc): in condizioni diverse le performance delle molle potrebbero subire alcune variazioni. Sconsigliamo vivamente l'utilizzo di molle sovrapposte e raccomandiamo anche di tenere le molle guidate durante il loro impiego. Precisiamo che i contenuti del catalogo sono stati costruiti in base a dati sperimentali. Le informazioni relative alla resistenza a fatica sono qualitative, inoltre la durata attesa si prevede possa essere raggiunta o superata dal 90% delle molle, appartenenti ad un unico lotto.

## GB TIME AND SPRING LIFE DIAGRAM
## D ZEIT-UND DAUERFESTIGKEITSSCHAUBILD
## I IL DIAGRAMMA DELLE SOLLECITAZIONI

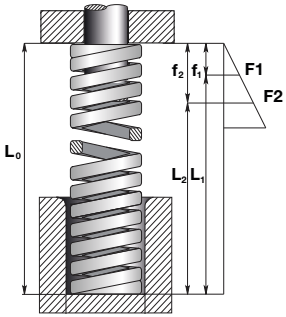



**FIG.1 Condizioni di Lavoro**
$f_1$ = freccia di precarica, minimo 13% di $f_{BL}$
**F1** = carico della molla compressa a $f_1$
$f_2$ = freccia di lavoro, massimo 80% di $f_{BL}$
**F2** = carico della molla compressa a $f_2$

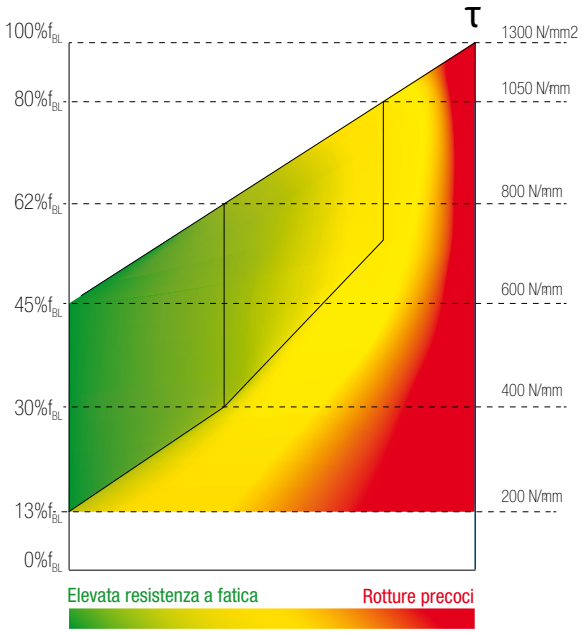
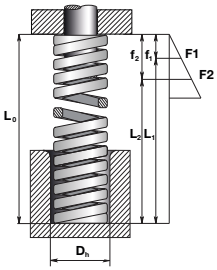



**FIG.2** Condizioni di Lavoro e Resistenza a Fatica

| LIGHT LOADS | MEDIUM LOADS | STRONG LOADS | EXTRA STRONG LOADS |
|---|---|---|---|
| **F01.05** | **F01.10** | **F01.15** | **F01.20** |
|  |  |  |  |
| **DIN ISO 10243**<br>WIRE SPRING GREEN<br>SCHRAUBENDRUCKFEDER GRÜN<br>MOLLA A FILO VERDE | **DIN ISO 10243**<br>WIRE SPRING BLUE<br>SCHRAUBENDRUCKFEDER BLAU<br>MOLLA A FILO BLU | **DIN ISO 10243**<br>WIRE SPRING RED<br>SCHRAUBENDRUCKFEDER ROT<br>MOLLA A FILO ROSSA | **DIN ISO 10243**<br>WIRE SPRING YELLOW<br>SCHRAUBENDRUCKFEDER GELB<br>MOLLA A FILO GIALLA |
| 1166 | 1168 | 1170 | 1172 |



# WIRE SPRING, COLOUR "GREEN" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "GRÜN" DIN ISO 10243
# MOLLA A FILO, COLORE "VERDE" DIN ISO 10243




STOCK

3D WEB

**Work Conditions**

**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

**Ø 10 - 25**

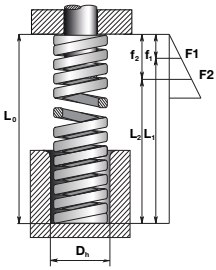


ORDER EXAMPLE

| Art. | $D_h$ = 10 | $L_0$ = 44 |
|---|---|---|
| F01.05 | 10 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.05.10025 | 10 | 5 | 25 | 10 | 13 | 3,9 | 39 | 5,8 | 58 | 8,0 | 80 | 10,3 | 103 |
| F01.05.10032 | | | 32 | 8,5 | 16 | 4,9 | 42 | 7,4 | 63 | 10,2 | 86 | 13,1 | 111 |
| F01.05.10038 | | | 38 | 6,8 | 20 | 5,9 | 40 | 8,8 | 60 | 12,1 | 82 | 15,6 | 106 |
| F01.05.10044 | | | 44 | 6 | 23 | 6,8 | 41 | 10,1 | 61 | 14,0 | 84 | 18,0 | 108 |
| F01.05.10051 | | | 51 | 5 | 26 | 7,8 | 39 | 11,8 | 59 | 16,2 | 81 | 20,9 | 105 |
| F01.05.10064 | | | 64 | 4,3 | 33 | 9,8 | 42 | 14,6 | 63 | 20,2 | 87 | 26,0 | 112 |
| F01.05.10076 | | | 76 | 3,2 | 39 | 11,7 | 37 | 17,6 | 56 | 24,2 | 77 | 31,2 | 100 |
| F01.05.10305 | | | 305 | 1,1 | 156 | 46,9 | 52 | 70,3 | 77 | 96,9 | 107 | 125,0 | 138 |
| F01.05.13025 | 12,5 | 6,3 | 25 | 17,9 | 13 | 3,9 | 69 | 5,8 | 104 | 8,0 | 143 | 10,3 | 184 |
| F01.05.13032 | | | 32 | 16,4 | 16 | 4,9 | 81 | 7,4 | 121 | 10,2 | 167 | 13,1 | 215 |
| F01.05.13038 | | | 38 | 13,6 | 20 | 5,9 | 80 | 8,8 | 119 | 12,1 | 164 | 15,6 | 212 |
| F01.05.13044 | | | 44 | 12,1 | 23 | 6,8 | 82 | 10,1 | 123 | 14,0 | 169 | 18,0 | 218 |
| F01.05.13051 | | | 51 | 11,4 | 26 | 7,8 | 89 | 11,8 | 134 | 16,2 | 185 | 20,9 | 238 |
| F01.05.13064 | | | 64 | 9,3 | 33 | 9,9 | 92 | 14,8 | 138 | 20,4 | 190 | 26,3 | 245 |
| F01.05.13076 | | | 76 | 7,1 | 39 | 11,7 | 83 | 17,6 | 125 | 24,2 | 172 | 31,2 | 222 |
| F01.05.13089 | | | 89 | 5,4 | 46 | 13,7 | 74 | 20,5 | 111 | 28,3 | 153 | 36,5 | 197 |
| F01.05.13305 | | | 305 | 1,4 | 156 | 46,9 | 66 | 70,3 | 98 | 96,9 | 136 | 125,0 | 175 |
| F01.05.16025 | 16 | 8 | 25 | 23,4 | 13 | 3,9 | 90 | 5,8 | 136 | 8,0 | 187 | 10,3 | 241 |
| F01.05.16032 | | | 32 | 22,9 | 16 | 4,9 | 112 | 7,4 | 169 | 10,2 | 232 | 13,1 | 300 |
| F01.05.16038 | | | 38 | 19,3 | 20 | 5,9 | 113 | 8,8 | 169 | 12,1 | 233 | 15,6 | 301 |
| F01.05.16044 | | | 44 | 17,1 | 23 | 6,8 | 115 | 10,1 | 173 | 14,0 | 239 | 18,0 | 308 |
| F01.05.16051 | | | 51 | 15,7 | 26 | 7,8 | 123 | 11,8 | 185 | 16,2 | 254 | 20,9 | 328 |
| F01.05.16064 | | | 64 | 10,7 | 33 | 9,9 | 106 | 14,8 | 158 | 20,4 | 218 | 26,3 | 281 |
| F01.05.16076 | | | 76 | 10 | 39 | 11,7 | 117 | 17,6 | 176 | 24,2 | 242 | 31,2 | 312 |
| F01.05.16089 | | | 89 | 8,6 | 46 | 13,7 | 118 | 20,5 | 177 | 28,3 | 243 | 36,5 | 314 |
| F01.05.16102 | | | 102 | 7,8 | 52 | 15,7 | 122 | 23,5 | 183 | 32,4 | 253 | 41,8 | 326 |
| F01.05.16305 | | | 305 | 2,5 | 156 | 46,9 | 117 | 70,3 | 176 | 96,9 | 242 | 125,0 | 313 |
| F01.05.20025 | 20 | 10 | 25 | 55,8 | 13 | 3,8 | 213 | 5,7 | 320 | 7,9 | 441 | 10,2 | 569 |
| F01.05.20032 | | | 32 | 45 | 16 | 4,7 | 211 | 7,0 | 316 | 9,7 | 436 | 12,5 | 563 |
| F01.05.20038 | | | 38 | 33,3 | 19 | 5,6 | 187 | 8,4 | 281 | 11,6 | 387 | 15,0 | 500 |
| F01.05.20044 | | | 44 | 30 | 22 | 6,6 | 198 | 9,9 | 297 | 13,6 | 409 | 18,0 | 540 |
| F01.05.20051 | | | 51 | 24,5 | 25 | 7,5 | 184 | 11,3 | 276 | 15,5 | 380 | 20,0 | 490 |
| F01.05.20064 | | | 64 | 20 | 31 | 9,4 | 188 | 14,1 | 281 | 19,4 | 388 | 25,0 | 500 |
| F01.05.20076 | | | 76 | 16 | 37 | 11,1 | 178 | 16,7 | 266 | 22,9 | 367 | 30,0 | 480 |
| F01.05.20089 | | | 89 | 14 | 44 | 13,1 | 184 | 19,7 | 276 | 27,1 | 380 | 35,0 | 490 |
| F01.05.20102 | | | 102 | 12 | 51 | 15,4 | 185 | 23,1 | 277 | 31,8 | 381 | 41,0 | 492 |
| F01.05.20115 | | | 115 | 10,9 | 58 | 17,3 | 188 | 25,9 | 282 | 35,7 | 389 | 46,0 | 501 |
| F01.05.20127 | | | 127 | 9,5 | 64 | 19,1 | 182 | 28,7 | 273 | 39,5 | 375 | 51,0 | 485 |
| F01.05.20139 | | | 139 | 8,4 | 70 | 21 | 176 | 31,5 | 265 | 43,4 | 365 | 56,0 | 470 |
| F01.05.20152 | | | 152 | 7,5 | 76 | 22,9 | 172 | 34,3 | 257 | 47,3 | 355 | 61,0 | 458 |
| F01.05.20305 | | | 305 | 4 | 153 | 45,8 | 183 | 68,6 | 275 | 94,6 | 378 | 122,0 | 488 |
| F01.05.25025 | 25 | 12,5 | 25 | 100 | 13 | 3,8 | 383 | 5,7 | 574 | 7,9 | 791 | 10,2 | 1020 |
| F01.05.25032 | | | 32 | 80,3 | 16 | 4,7 | 376 | 7,0 | 565 | 9,7 | 778 | 12,5 | 1004 |
| F01.05.25038 | | | 38 | 62 | 19 | 5,6 | 349 | 8,4 | 523 | 11,6 | 721 | 15,0 | 930 |
| F01.05.25044 | | | 44 | 52,9 | 22 | 6,6 | 349 | 9,9 | 524 | 13,6 | 722 | 18,0 | 952 |
| F01.05.25051 | | | 51 | 44 | 25 | 7,5 | 330 | 11,3 | 495 | 15,5 | 682 | 20,0 | 880 |
| F01.05.25064 | | | 64 | 35,2 | 31 | 9,4 | 330 | 14,1 | 495 | 19,4 | 682 | 25,0 | 880 |
| F01.05.25076 | | | 76 | 28 | 37 | 11,1 | 311 | 16,7 | 466 | 22,9 | 642 | 30,0 | 840 |
| F01.05.25089 | | | 89 | 24 | 44 | 13,1 | 315 | 19,7 | 473 | 27,1 | 651 | 35,0 | 840 |
| F01.05.25102 | | | 102 | 21,1 | 51 | 15,4 | 324 | 23,1 | 487 | 31,8 | 670 | 41,0 | 865 |
| F01.05.25115 | | | 115 | 18,7 | 58 | 17,3 | 323 | 25,9 | 484 | 35,7 | 667 | 46,0 | 860 |
| F01.05.25127 | | | 127 | 16,7 | 64 | 19,1 | 319 | 28,7 | 479 | 39,5 | 660 | 51,0 | 852 |
| F01.05.25139 | | | 139 | 15,3 | 70 | 21 | 321 | 31,5 | 482 | 43,4 | 664 | 56,0 | 857 |
| F01.05.25152 | | | 152 | 14 | 76 | 22,9 | 320 | 34,3 | 480 | 47,3 | 662 | 61,0 | 854 |
| F01.05.25178 | | | 178 | 12,5 | 89 | 26,6 | 333 | 39,9 | 499 | 55,0 | 688 | 71,0 | 888 |
| F01.05.25203 | | | 203 | 10,4 | 101 | 30,4 | 316 | 45,6 | 474 | 62,8 | 653 | 81,0 | 842 |
| F01.05.25305 | | | 305 | 7,0 | 153 | 45,8 | 320 | 68,6 | 480 | 94,6 | 662 | 122,0 | 854 |

# WIRE SPRING, COLOUR "GREEN" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "GRÜN", DIN ISO 10243
# MOLLA A FILO, COLORE "VERDE",DIN ISO 10243




STOCK

3D WEB

**Work Conditions**

**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

**Ø 32 - 63**

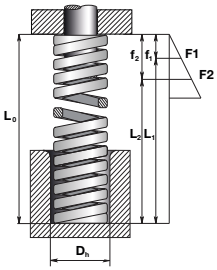


ORDER EXAMPLE

| Art. | $D_h$ = 32 | $L_0$ = 44 |
|---|---|---|
| F01.05 | 32 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.05.32038 | 32 | 16 | 38 | 94,0 | 19 | 5,6 | 529 | 8,4 | 793 | 11,6 | 1093 | 15,0 | 1410 |
| F01.05.32044 | | | 44 | 79,5 | 23 | 6,8 | 537 | 10,1 | 805 | 14,0 | 1109 | 18,0 | 1431 |
| F01.05.32051 | | | 51 | 67,0 | 25 | 7,5 | 503 | 11,3 | 754 | 15,5 | 1039 | 20,0 | 1340 |
| F01.05.32064 | | | 64 | 53,0 | 31 | 9,4 | 497 | 14,1 | 745 | 19,4 | 1027 | 25,0 | 1325 |
| F01.05.32076 | | | 76 | 44,0 | 38 | 11,3 | 495 | 16,9 | 743 | 23,3 | 1023 | 30,0 | 1320 |
| F01.05.32089 | | | 89 | 37,2 | 44 | 13,1 | 488 | 19,7 | 732 | 27,1 | 1009 | 35,0 | 1302 |
| F01.05.32102 | | | 102 | 32,0 | 51 | 15,4 | 492 | 23,1 | 738 | 31,8 | 1017 | 41,0 | 1312 |
| F01.05.32115 | | | 115 | 29,0 | 58 | 17,3 | 500 | 25,9 | 750 | 35,7 | 1034 | 46,0 | 1334 |
| F01.05.32127 | | | 127 | 25,0 | 64 | 19,1 | 478 | 28,7 | 717 | 39,5 | 988 | 51,0 | 1275 |
| F01.05.32139 | | | 139 | 23,0 | 70 | 21 | 483 | 31,5 | 725 | 43,4 | 998 | 56,0 | 1288 |
| F01.05.32152 | | | 152 | 21,5 | 76 | 22,9 | 492 | 34,3 | 738 | 47,3 | 1016 | 61,0 | 1312 |
| F01.05.32178 | | | 178 | 18,2 | 89 | 26,6 | 485 | 39,9 | 727 | 55,0 | 1001 | 71,0 | 1292 |
| F01.05.32203 | | | 203 | 15,8 | 101 | 30,4 | 480 | 45,6 | 720 | 62,8 | 992 | 81,0 | 1280 |
| F01.05.32254 | | | 254 | 12,5 | 128 | 38,3 | 478 | 57,4 | 717 | 79,1 | 988 | 102,0 | 1275 |
| F01.05.32305 | | | 305 | 10,3 | 153 | 45,8 | 471 | 68,6 | 707 | 94,6 | 974 | 122,0 | 1257 |
| F01.05.40051 | 40 | 20 | 51 | 92,0 | 25 | 7,5 | 690 | 11,3 | 1035 | 15,5 | 1426 | 20,0 | 1840 |
| F01.05.40064 | | | 64 | 73,0 | 31 | 9,4 | 684 | 14,1 | 1027 | 19,4 | 1414 | 25,0 | 1825 |
| F01.05.40076 | | | 76 | 63,0 | 38 | 11,3 | 709 | 16,9 | 1063 | 23,3 | 1465 | 30,0 | 1890 |
| F01.05.40089 | | | 89 | 51,0 | 44 | 13,1 | 669 | 19,7 | 1004 | 27,1 | 1383 | 35,0 | 1785 |
| F01.05.40102 | | | 102 | 43,0 | 51 | 15,4 | 661 | 23,1 | 992 | 31,8 | 1366 | 41,0 | 1763 |
| F01.05.40115 | | | 115 | 39,6 | 58 | 17,3 | 683 | 25,9 | 1025 | 35,7 | 1412 | 46,0 | 1822 |
| F01.05.40127 | | | 127 | 37,0 | 64 | 19,1 | 708 | 28,7 | 1061 | 39,5 | 1462 | 51,0 | 1887 |
| F01.05.40139 | | | 139 | 32,0 | 70 | 21 | 672 | 31,5 | 1008 | 43,4 | 1389 | 56,0 | 1792 |
| F01.05.40152 | | | 152 | 28,0 | 76 | 22,9 | 641 | 34,3 | 961 | 47,3 | 1324 | 61,0 | 1708 |
| F01.05.40178 | | | 178 | 25,2 | 89 | 26,6 | 671 | 39,9 | 1006 | 55,0 | 1387 | 71,0 | 1789 |
| F01.05.40203 | | | 203 | 22,7 | 101 | 30,4 | 690 | 45,6 | 1034 | 62,8 | 1425 | 81,0 | 1839 |
| F01.05.40254 | | | 254 | 17,0 | 128 | 38,3 | 650 | 57,4 | 975 | 79,1 | 1344 | 102,0 | 1734 |
| F01.05.40305 | | | 305 | 14,8 | 153 | 45,8 | 677 | 68,6 | 1016 | 94,6 | 1399 | 122,0 | 1806 |
| F01.05.50064 | 50 | 25 | 64 | 156,0 | 31 | 9,4 | 1463 | 14,1 | 2194 | 19,4 | 3023 | 25,0 | 3900 |
| F01.05.50076 | | | 76 | 125,0 | 38 | 11,3 | 1406 | 16,9 | 2109 | 23,3 | 2906 | 30,0 | 3750 |
| F01.05.50089 | | | 89 | 109,0 | 44 | 13,1 | 1431 | 19,7 | 2146 | 27,1 | 2957 | 35,0 | 3815 |
| F01.05.50102 | | | 102 | 94,0 | 51 | 15,4 | 1445 | 23,1 | 2168 | 31,8 | 2987 | 41,0 | 3854 |
| F01.05.50115 | | | 115 | 81,0 | 58 | 17,3 | 1397 | 25,9 | 2096 | 35,7 | 2888 | 46,0 | 3726 |
| F01.05.50127 | | | 127 | 71,0 | 64 | 19,1 | 1358 | 28,7 | 2037 | 39,5 | 2806 | 51,0 | 3621 |
| F01.05.50139 | | | 139 | 66,5 | 70 | 21 | 1397 | 31,5 | 2095 | 43,4 | 2886 | 56,0 | 3724 |
| F01.05.50152 | | | 152 | 60,0 | 76 | 22,9 | 1373 | 34,3 | 2059 | 47,3 | 2837 | 61,0 | 3660 |
| F01.05.50178 | | | 178 | 52,0 | 89 | 26,6 | 1385 | 39,9 | 2077 | 55,0 | 2861 | 71,0 | 3692 |
| F01.05.50203 | | | 203 | 44,0 | 101 | 30,4 | 1337 | 45,6 | 2005 | 62,8 | 2762 | 81,0 | 3564 |
| F01.05.50254 | | | 254 | 35,0 | 128 | 38,3 | 1339 | 57,4 | 2008 | 79,1 | 2767 | 102,0 | 3570 |
| F01.05.50305 | | | 305 | 28,5 | 153 | 45,8 | 1304 | 68,6 | 1956 | 94,6 | 2695 | 122,0 | 3477 |
| F01.05.63076 | 63 | 38 | 76 | 189,0 | 38 | 11,3 | 2126 | 16,9 | 3189 | 23,3 | 4394 | 30,0 | 5670 |
| F01.05.63089 | | | 89 | 158,0 | 44 | 13,1 | 2074 | 19,7 | 3111 | 27,1 | 4286 | 35,0 | 5530 |
| F01.05.63102 | | | 102 | 131,0 | 51 | 15,4 | 2014 | 23,1 | 3021 | 31,8 | 4163 | 41,0 | 5371 |
| F01.05.63115 | | | 115 | 116,0 | 58 | 17,3 | 2001 | 25,9 | 3002 | 35,7 | 4135 | 46,0 | 5336 |
| F01.05.63127 | | | 127 | 103,0 | 64 | 19,1 | 1970 | 28,7 | 2955 | 39,5 | 4071 | 51,0 | 5253 |
| F01.05.63152 | | | 152 | 84,3 | 76 | 22,9 | 1928 | 34,3 | 2893 | 47,3 | 3985 | 61,0 | 5142 |
| F01.05.63178 | | | 178 | 71,5 | 89 | 26,6 | 1904 | 39,9 | 2856 | 55,0 | 3934 | 71,0 | 5077 |
| F01.05.63203 | | | 203 | 61,7 | 101 | 30,4 | 1874 | 45,6 | 2811 | 62,8 | 3873 | 81,0 | 4998 |
| F01.05.63254 | | | 254 | 47,0 | 128 | 38,3 | 1798 | 57,4 | 2697 | 79,1 | 3715 | 102,0 | 4794 |
| F01.05.63305 | | | 305 | 38,2 | 153 | 45,8 | 1748 | 68,6 | 2621 | 94,6 | 3612 | 122,0 | 4660 |

# WIRE SPRING, COLOUR "BLUE" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "BLAU" DIN ISO 10243
# MOLLA A FILO, COLORE "BLU" DIN ISO 10243




STOCK

3D WEB

**Work Conditions**

**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

**Ø 10 - 25**

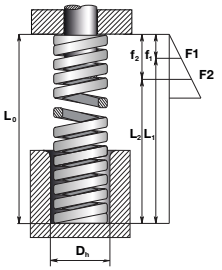


ORDER EXAMPLE

| Art. | $D_h$ = 10 | $L_0$ = 44 |
|---|---|---|
| F01.10 | 10 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.10.10025 | 10 | 5 | 25 | 16,0 | 12 | 3,6 | 57 | 5,3 | 86 | 7,4 | 118 | 9,5 | 152 |
| F01.10.10032 | | | 32 | 13,0 | 15 | 4,6 | 59 | 6,9 | 89 | 9,5 | 123 | 12,2 | 159 |
| F01.10.10038 | | | 38 | 11,9 | 18 | 5,4 | 64 | 8,1 | 96 | 11,2 | 133 | 14,4 | 171 |
| F01.10.10044 | | | 44 | 10,3 | 21 | 6,3 | 65 | 9,4 | 97 | 12,9 | 133 | 16,7 | 172 |
| F01.10.10051 | | | 51 | 8,9 | 24 | 7,3 | 65 | 10,9 | 97 | 15,0 | 134 | 19,4 | 173 |
| F01.10.10064 | | | 64 | 7,5 | 30 | 9,1 | 68 | 13,7 | 103 | 18,8 | 141 | 24,3 | 182 |
| F01.10.10076 | | | 76 | 5,3 | 36 | 10,8 | 57 | 16,3 | 86 | 22,4 | 119 | 28,9 | 153 |
| F01.10.10305 | | | 305 | 1,6 | 145 | 43,5 | 70 | 65,3 | 104 | 89,9 | 144 | 116,0 | 186 |
| F01.10.13025 | 12,5 | 6,3 | 25 | 30,0 | 12 | 3,6 | 107 | 5,3 | 160 | 7,4 | 221 | 9,5 | 285 |
| F01.10.13032 | | | 32 | 24,8 | 15 | 4,6 | 113 | 6,9 | 170 | 9,5 | 234 | 12,2 | 303 |
| F01.10.13038 | | | 38 | 21,4 | 18 | 5,4 | 116 | 8,1 | 173 | 11,2 | 239 | 14,4 | 308 |
| F01.10.13044 | | | 44 | 18,5 | 21 | 6,3 | 116 | 9,4 | 174 | 12,9 | 239 | 16,7 | 309 |
| F01.10.13051 | | | 51 | 15,5 | 24 | 7,3 | 113 | 10,9 | 169 | 15,0 | 233 | 19,4 | 301 |
| F01.10.13064 | | | 64 | 12,1 | 30 | 9,1 | 110 | 13,7 | 165 | 18,8 | 228 | 24,3 | 294 |
| F01.10.13076 | | | 76 | 10,2 | 36 | 10,8 | 111 | 16,3 | 166 | 22,4 | 228 | 28,9 | 295 |
| F01.10.13089 | | | 89 | 8,4 | 42 | 12,7 | 106 | 19,0 | 160 | 26,2 | 220 | 33,8 | 284 |
| F01.10.13305 | | | 305 | 2,1 | 145 | 43,5 | 91 | 65,3 | 137 | 89,9 | 189 | 116,0 | 244 |
| F01.10.16025 | 16 | 8 | 25 | 49,4 | 12 | 3,6 | 176 | 5,3 | 264 | 7,4 | 364 | 9,5 | 469 |
| F01.10.16032 | | | 32 | 37,1 | 15 | 4,6 | 170 | 6,9 | 255 | 9,5 | 351 | 12,2 | 453 |
| F01.10.16038 | | | 38 | 33,9 | 18 | 5,4 | 183 | 8,1 | 275 | 11,2 | 378 | 14,4 | 488 |
| F01.10.16044 | | | 44 | 30,0 | 21 | 6,3 | 188 | 9,4 | 282 | 12,9 | 388 | 16,7 | 501 |
| F01.10.16051 | | | 51 | 26,4 | 24 | 7,3 | 192 | 10,9 | 288 | 15,0 | 397 | 19,4 | 512 |
| F01.10.16064 | | | 64 | 20,5 | 30 | 9,1 | 187 | 13,7 | 280 | 18,8 | 386 | 24,3 | 498 |
| F01.10.16076 | | | 76 | 17,8 | 36 | 10,8 | 193 | 16,3 | 289 | 22,4 | 399 | 28,9 | 514 |
| F01.10.16089 | | | 89 | 15,2 | 42 | 12,7 | 193 | 19,0 | 289 | 26,2 | 398 | 33,8 | 514 |
| F01.10.16102 | | | 102 | 13,5 | 49 | 14,6 | 196 | 21,8 | 295 | 30,1 | 406 | 38,8 | 524 |
| F01.10.16305 | | | 305 | 4,8 | 145 | 43,5 | 209 | 65,3 | 313 | 89,9 | 432 | 116,0 | 557 |
| F01.10.20025 | 20 | 10 | 25 | 98,0 | 12 | 3,5 | 345 | 5,3 | 518 | 7,3 | 714 | 9,4 | 921 |
| F01.10.20032 | | | 32 | 72,6 | 15 | 4,5 | 327 | 6,8 | 490 | 9,3 | 675 | 12,0 | 871 |
| F01.10.20038 | | | 38 | 56,0 | 18 | 5,3 | 294 | 7,9 | 441 | 10,9 | 608 | 14,0 | 784 |
| F01.10.20044 | | | 44 | 47,5 | 21 | 6,2 | 294 | 9,3 | 441 | 12,8 | 607 | 16,5 | 784 |
| F01.10.20051 | | | 51 | 41,7 | 24 | 7,1 | 297 | 10,7 | 446 | 14,7 | 614 | 19,0 | 792 |
| F01.10.20064 | | | 64 | 32,3 | 30 | 9,0 | 291 | 13,5 | 436 | 18,6 | 601 | 24,0 | 775 |
| F01.10.20076 | | | 76 | 25,1 | 35 | 10,5 | 264 | 15,8 | 395 | 21,7 | 545 | 28,0 | 703 |
| F01.10.20089 | | | 89 | 22,0 | 41 | 12,4 | 272 | 18,6 | 408 | 25,6 | 563 | 33,0 | 726 |
| F01.10.20102 | | | 102 | 19,8 | 48 | 14,3 | 282 | 21,4 | 423 | 29,5 | 583 | 38,0 | 752 |
| F01.10.20115 | | | 115 | 18,1 | 54 | 16,1 | 292 | 24,2 | 438 | 33,3 | 603 | 43,0 | 778 |
| F01.10.20127 | | | 127 | 16,6 | 60 | 18,0 | 299 | 27,0 | 448 | 37,2 | 618 | 48,0 | 797 |
| F01.10.20139 | | | 139 | 15,1 | 65 | 19,5 | 294 | 29,3 | 442 | 40,3 | 609 | 52,0 | 785 |
| F01.10.20152 | | | 152 | 13,2 | 71 | 21,4 | 282 | 32,1 | 423 | 44,2 | 583 | 57,0 | 752 |
| F01.10.20305 | | | 305 | 6,1 | 143 | 42,8 | 261 | 64,1 | 391 | 88,4 | 539 | 114,0 | 695 |
| F01.10.25025 | 25 | 12,5 | 25 | 147,0 | 12 | 3,5 | 518 | 5,3 | 777 | 7,3 | 1071 | 9,4 | 1382 |
| F01.10.25032 | | | 32 | 118,0 | 15 | 4,5 | 531 | 6,8 | 797 | 9,3 | 1097 | 12,0 | 1416 |
| F01.10.25038 | | | 38 | 93,0 | 18 | 5,3 | 488 | 7,9 | 732 | 10,9 | 1009 | 14,0 | 1302 |
| F01.10.25044 | | | 44 | 80,8 | 21 | 6,2 | 500 | 9,3 | 750 | 12,8 | 1033 | 16,5 | 1333 |
| F01.10.25051 | | | 51 | 68,6 | 24 | 7,1 | 489 | 10,7 | 733 | 14,7 | 1010 | 19,0 | 1303 |
| F01.10.25064 | | | 64 | 53,0 | 30 | 9,0 | 477 | 13,5 | 716 | 18,6 | 986 | 24,0 | 1272 |
| F01.10.25076 | | | 76 | 43,2 | 35 | 10,5 | 454 | 15,8 | 680 | 21,7 | 937 | 28,0 | 1210 |
| F01.10.25089 | | | 89 | 38,2 | 41 | 12,4 | 473 | 18,6 | 709 | 25,6 | 977 | 33,0 | 1261 |
| F01.10.25102 | | | 102 | 33,0 | 48 | 14,3 | 470 | 21,4 | 705 | 29,5 | 972 | 38,0 | 1254 |
| F01.10.25115 | | | 115 | 28,0 | 54 | 16,1 | 452 | 24,2 | 677 | 33,3 | 933 | 43,0 | 1204 |
| F01.10.25127 | | | 127 | 25,9 | 60 | 18,0 | 466 | 27,0 | 699 | 37,2 | 963 | 48,0 | 1243 |
| F01.10.25139 | | | 139 | 23,2 | 65 | 19,5 | 452 | 29,3 | 679 | 40,3 | 935 | 52,0 | 1206 |
| F01.10.25152 | | | 152 | 20,8 | 71 | 21,4 | 445 | 32,1 | 667 | 44,2 | 919 | 57,0 | 1186 |
| F01.10.25178 | | | 178 | 17,8 | 84 | 25,1 | 447 | 37,7 | 671 | 51,9 | 924 | 67,0 | 1193 |
| F01.10.25203 | | | 203 | 15,8 | 95 | 28,5 | 450 | 42,8 | 675 | 58,9 | 931 | 76,0 | 1201 |
| F01.10.25305 | | | 305 | 10,2 | 143 | 42,8 | 436 | 64,1 | 654 | 88,4 | 901 | 114,0 | 1163 |

# WIRE SPRING, COLOUR "BLUE" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "BLAU" DIN ISO 10243
# MOLLA A FILO, COLORE "BLU" DIN ISO 10243




**Work Conditions**
**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

STOCK

3D WEB

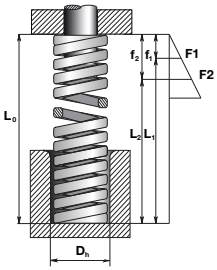



ORDER EXAMPLE

| Art. | $D_h$ = 32 | $L_0$ = 44 |
|---|---|---|
| F01.10 | 32 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.10.32038 | 32 | 16 | 38 | 185,0 | 18 | 5,3 | 971 | 7,9 | 1457 | 10,9 | 2007 | 14,0 | 2590 |
| F01.10.32044 | | | 44 | 158,0 | 21 | 6,2 | 978 | 9,3 | 1466 | 12,8 | 2020 | 16,5 | 2607 |
| F01.10.32051 | | | 51 | 134,0 | 24 | 7,1 | 955 | 10,7 | 1432 | 14,7 | 1973 | 19,0 | 2546 |
| F01.10.32064 | | | 64 | 99,0 | 30 | 9,0 | 891 | 13,5 | 1337 | 18,6 | 1841 | 24,0 | 2376 |
| F01.10.32076 | | | 76 | 80,5 | 35 | 10,5 | 845 | 15,8 | 1268 | 21,7 | 1747 | 28,0 | 2254 |
| F01.10.32089 | | | 89 | 69,1 | 41 | 12,4 | 855 | 18,6 | 1283 | 25,6 | 1767 | 33,0 | 2280 |
| F01.10.32102 | | | 102 | 58,8 | 48 | 14,3 | 838 | 21,4 | 1257 | 29,5 | 1732 | 38,0 | 2234 |
| F01.10.32115 | | | 115 | 51,5 | 54 | 16,1 | 830 | 24,2 | 1246 | 33,3 | 1716 | 43,0 | 2215 |
| F01.10.32127 | | | 127 | 44,8 | 60 | 18,0 | 806 | 27,0 | 1210 | 37,2 | 1667 | 48,0 | 2150 |
| F01.10.32139 | | | 139 | 42,3 | 65 | 19,5 | 825 | 29,3 | 1237 | 40,3 | 1705 | 52,0 | 2200 |
| F01.10.32152 | | | 152 | 37,8 | 71 | 21,4 | 808 | 32,1 | 1212 | 44,2 | 1670 | 57,0 | 2155 |
| F01.10.32078 | | | 178 | 32,5 | 84 | 25,1 | 817 | 37,7 | 1225 | 51,9 | 1688 | 67,0 | 2178 |
| F01.10.32203 | | | 203 | 28,9 | 95 | 28,5 | 824 | 42,8 | 1235 | 58,9 | 1702 | 76,0 | 2196 |
| F01.10.32254 | | | 254 | 21,4 | 119 | 35,6 | 762 | 53,4 | 1144 | 73,6 | 1576 | 95,0 | 2033 |
| F01.10.32305 | | | 305 | 18,3 | 143 | 42,8 | 782 | 64,1 | 1173 | 88,4 | 1617 | 114,0 | 2086 |
| F01.10.40051 | 40 | 20 | 51 | 181,6 | 24 | 7,1 | 1294 | 10,7 | 1941 | 14,7 | 2674 | 19,0 | 3450 |
| F01.10.40064 | | | 64 | 140,0 | 30 | 9,0 | 1260 | 13,5 | 1890 | 18,6 | 2604 | 24,0 | 3360 |
| F01.10.40076 | | | 76 | 108,0 | 35 | 10,5 | 1134 | 15,8 | 1701 | 21,7 | 2344 | 28,0 | 3024 |
| F01.10.40089 | | | 89 | 90,7 | 41 | 12,4 | 1122 | 18,6 | 1684 | 25,6 | 2320 | 33,0 | 2993 |
| F01.10.40102 | | | 102 | 81,0 | 48 | 14,3 | 1154 | 21,4 | 1731 | 29,5 | 2385 | 38,0 | 3078 |
| F01.10.40115 | | | 115 | 71,8 | 54 | 16,1 | 1158 | 24,2 | 1737 | 33,3 | 2393 | 43,0 | 3087 |
| F01.10.40127 | | | 127 | 62,7 | 60 | 18,0 | 1129 | 27,0 | 1693 | 37,2 | 2332 | 48,0 | 3010 |
| F01.10.40139 | | | 139 | 57,5 | 65 | 19,5 | 1121 | 29,3 | 1682 | 40,3 | 2317 | 52,0 | 2990 |
| F01.10.40152 | | | 152 | 51,6 | 71 | 21,4 | 1103 | 32,1 | 1654 | 44,2 | 2279 | 57,0 | 2941 |
| F01.10.40178 | | | 178 | 44,1 | 84 | 25,1 | 1108 | 37,7 | 1662 | 51,9 | 2290 | 67,0 | 2955 |
| F01.10.40203 | | | 203 | 36,7 | 95 | 28,5 | 1046 | 42,8 | 1569 | 58,9 | 2162 | 76,0 | 2789 |
| F01.10.40254 | | | 254 | 30,1 | 119 | 35,6 | 1072 | 53,4 | 1608 | 73,6 | 2216 | 95,0 | 2860 |
| F01.10.40305 | | | 305 | 24,6 | 143 | 42,8 | 1052 | 64,1 | 1577 | 88,4 | 2173 | 114,0 | 2804 |
| F01.10.50064 | 50 | 25 | 64 | 209,0 | 30 | 9,0 | 1881 | 13,5 | 2822 | 18,6 | 3887 | 24,0 | 5016 |
| F01.10.50076 | | | 76 | 168,0 | 35 | 10,5 | 1764 | 15,8 | 2646 | 21,7 | 3646 | 28,0 | 4704 |
| F01.10.50089 | | | 89 | 140,0 | 41 | 12,4 | 1733 | 18,6 | 2599 | 25,6 | 3581 | 33,0 | 4620 |
| F01.10.50102 | | | 102 | 119,0 | 48 | 14,3 | 1696 | 21,4 | 2544 | 29,5 | 3505 | 38,0 | 4522 |
| F01.10.50115 | | | 115 | 106,0 | 54 | 16,1 | 1709 | 24,2 | 2564 | 33,3 | 3532 | 43,0 | 4558 |
| F01.10.50127 | | | 127 | 97,0 | 60 | 18,0 | 1746 | 27,0 | 2619 | 37,2 | 3608 | 48,0 | 4656 |
| F01.10.50139 | | | 139 | 87,0 | 65 | 19,5 | 1697 | 29,3 | 2545 | 40,3 | 3506 | 52,0 | 4524 |
| F01.10.50152 | | | 152 | 80,0 | 71 | 21,4 | 1710 | 32,1 | 2565 | 44,2 | 3534 | 57,0 | 4560 |
| F01.10.50178 | | | 178 | 69,5 | 84 | 25,1 | 1746 | 37,7 | 2619 | 51,9 | 3609 | 67,0 | 4657 |
| F01.10.50203 | | | 203 | 59,8 | 95 | 28,5 | 1704 | 42,8 | 2556 | 58,9 | 3522 | 76,0 | 4545 |
| F01.10.50229 | | | 229 | 50,9 | 108 | 32,3 | 1642 | 48,4 | 2462 | 66,7 | 3392 | 86,0 | 4377 |
| F01.10.50254 | | | 254 | 43,9 | 119 | 35,6 | 1564 | 53,4 | 2346 | 73,6 | 3232 | 95,0 | 4171 |
| F01.10.50305 | | | 305 | 38,6 | 143 | 42,8 | 1650 | 64,1 | 2475 | 88,4 | 3410 | 114,0 | 4400 |
| F01.10.63076 | 63 | 38 | 76 | 312,0 | 35 | 10,5 | 3276 | 15,8 | 4914 | 21,7 | 6770 | 28,0 | 8736 |
| F01.10.63089 | | | 89 | 260,0 | 41 | 12,4 | 3218 | 18,6 | 4826 | 25,6 | 6650 | 33,0 | 8580 |
| F01.10.63102 | | | 102 | 221,0 | 48 | 14,3 | 3149 | 21,4 | 4724 | 29,5 | 6508 | 38,0 | 8398 |
| F01.10.63115 | | | 115 | 187,0 | 54 | 16,1 | 3015 | 24,2 | 4523 | 33,3 | 6232 | 43,0 | 8041 |
| F01.10.63127 | | | 127 | 168,0 | 60 | 18,0 | 3024 | 27,0 | 4536 | 37,2 | 6250 | 48,0 | 8064 |
| F01.10.63152 | | | 152 | 136,0 | 71 | 21,4 | 2907 | 32,1 | 4361 | 44,2 | 6008 | 57,0 | 7752 |
| F01.10.63178 | | | 178 | 114,0 | 84 | 25,1 | 2864 | 37,7 | 4296 | 51,9 | 5919 | 67,0 | 7638 |
| F01.10.63203 | | | 203 | 100,0 | 95 | 28,5 | 2850 | 42,8 | 4275 | 58,9 | 5890 | 76,0 | 7600 |
| F01.10.63229 | | | 229 | 89,2 | 108 | 32,3 | 2877 | 48,4 | 4315 | 66,7 | 5945 | 86,0 | 7671 |
| F01.10.63254 | | | 254 | 78,4 | 119 | 35,6 | 2793 | 53,4 | 4190 | 73,6 | 5772 | 95,0 | 7448 |
| F01.10.63305 | | | 305 | 64,7 | 143 | 42,8 | 2766 | 64,1 | 4149 | 88,4 | 5716 | 114,0 | 7376 |

# WIRE SPRING, COLOUR "RED" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "ROT" DIN ISO 10243
# MOLLA A FILO, COLORE "ROSSO" DIN ISO 10243




STOCK

3D WEB

**Work Conditions**

**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

**Ø 10 - 25**

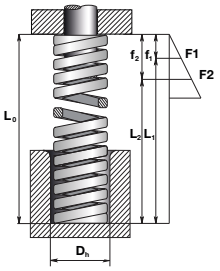


ORDER EXAMPLE

| Art. | $D_h$ = 10 | $L_0$ = 44 |
|---|---|---|
| F01.15 | 10 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.15.10025 | 10 | 5 | 25 | 22,1 | 9 | 2,8 | 62 | 4,2 | 93 | 5,8 | 129 | 7,5 | 166 |
| F01.15.10032 | | | 32 | 17,5 | 12 | 3,6 | 63 | 5,4 | 95 | 7,4 | 130 | 9,6 | 168 |
| F01.15.10038 | | | 38 | 17,1 | 14 | 4,3 | 73 | 6,4 | 110 | 8,8 | 151 | 11,4 | 195 |
| F01.15.10044 | | | 44 | 15,0 | 17 | 5,0 | 74 | 7,4 | 111 | 10,2 | 153 | 13,2 | 198 |
| F01.15.10051 | | | 51 | 12,8 | 19 | 5,7 | 73 | 8,6 | 110 | 11,9 | 152 | 15,3 | 196 |
| F01.15.10064 | | | 64 | 10,7 | 24 | 7,2 | 77 | 10,8 | 116 | 14,9 | 159 | 19,2 | 205 |
| F01.15.10076 | | | 76 | 7,5 | 29 | 8,6 | 64 | 12,8 | 96 | 17,7 | 133 | 22,8 | 171 |
| F01.15.10305 | | | 305 | 2,1 | 114 | 34,3 | 72 | 51,5 | 108 | 70,9 | 149 | 91,5 | 192 |
| F01.15.13025 | 12,5 | 6,3 | 25 | 42,1 | 9 | 2,8 | 118 | 4,2 | 178 | 5,8 | 245 | 7,5 | 316 |
| F01.15.13032 | | | 32 | 33,2 | 12 | 3,6 | 120 | 5,4 | 179 | 7,4 | 247 | 9,6 | 319 |
| F01.15.13038 | | | 38 | 29,3 | 14 | 4,3 | 125 | 6,4 | 188 | 8,8 | 259 | 11,4 | 334 |
| F01.15.13044 | | | 44 | 24,6 | 17 | 5,0 | 122 | 7,4 | 183 | 10,2 | 252 | 13,2 | 325 |
| F01.15.13051 | | | 51 | 19,6 | 19 | 5,7 | 113 | 8,6 | 169 | 11,9 | 232 | 15,3 | 300 |
| F01.15.13064 | | | 64 | 15,0 | 24 | 7,2 | 108 | 10,8 | 162 | 14,9 | 223 | 19,2 | 288 |
| F01.15.13076 | | | 76 | 13,2 | 29 | 8,6 | 113 | 12,8 | 169 | 17,7 | 233 | 22,8 | 301 |
| F01.15.13089 | | | 89 | 11,4 | 33 | 10,0 | 114 | 15,0 | 171 | 20,7 | 236 | 26,7 | 304 |
| F01.15.13305 | | | 305 | 2,8 | 114 | 34,3 | 96 | 51,5 | 144 | 70,9 | 199 | 91,5 | 256 |
| F01.15.16025 | 16 | 8 | 25 | 75,7 | 9 | 2,8 | 213 | 4,2 | 319 | 5,8 | 440 | 7,5 | 568 |
| F01.15.16032 | | | 32 | 52,8 | 12 | 3,6 | 190 | 5,4 | 285 | 7,4 | 393 | 9,6 | 507 |
| F01.15.16038 | | | 38 | 48,5 | 14 | 4,3 | 207 | 6,4 | 311 | 8,8 | 429 | 11,4 | 553 |
| F01.15.16044 | | | 44 | 42,8 | 17 | 5,0 | 212 | 7,4 | 318 | 10,2 | 438 | 13,2 | 565 |
| F01.15.16051 | | | 51 | 37,1 | 19 | 5,7 | 213 | 8,6 | 319 | 11,9 | 440 | 15,3 | 568 |
| F01.15.16064 | | | 64 | 30,3 | 24 | 7,2 | 218 | 10,8 | 327 | 14,9 | 451 | 19,2 | 582 |
| F01.15.16076 | | | 76 | 25,7 | 29 | 8,6 | 220 | 12,8 | 330 | 17,7 | 454 | 22,8 | 586 |
| F01.15.16089 | | | 89 | 21,7 | 33 | 10,0 | 217 | 15,0 | 326 | 20,7 | 449 | 26,7 | 579 |
| F01.15.16102 | | | 102 | 19,3 | 38 | 11,5 | 222 | 17,2 | 332 | 23,7 | 458 | 30,6 | 591 |
| F01.15.16305 | | | 305 | 7,1 | 114 | 34,3 | 244 | 51,5 | 365 | 70,9 | 504 | 91,5 | 650 |
| F01.15.20025 | 20 | 10 | 25 | 216,0 | 9 | 2,8 | 608 | 4,2 | 911 | 5,8 | 1256 | 7,5 | 1620 |
| F01.15.20032 | | | 32 | 168,0 | 12 | 3,6 | 605 | 5,4 | 907 | 7,4 | 1250 | 9,6 | 1613 |
| F01.15.20038 | | | 38 | 129,0 | 14 | 4,1 | 532 | 6,2 | 798 | 8,5 | 1100 | 11,0 | 1419 |
| F01.15.20044 | | | 44 | 112,0 | 16 | 4,9 | 546 | 7,3 | 819 | 10,1 | 1128 | 13,0 | 1456 |
| F01.15.20051 | | | 51 | 94,0 | 19 | 5,6 | 529 | 8,4 | 793 | 11,6 | 1093 | 15,0 | 1410 |
| F01.15.20064 | | | 64 | 72,1 | 24 | 7,1 | 514 | 10,7 | 771 | 14,7 | 1062 | 19,0 | 1370 |
| F01.15.20076 | | | 76 | 59,7 | 29 | 8,6 | 515 | 12,9 | 772 | 17,8 | 1064 | 23,0 | 1373 |
| F01.15.20089 | | | 89 | 50,5 | 34 | 10,1 | 511 | 15,2 | 767 | 20,9 | 1057 | 27,0 | 1364 |
| F01.15.20102 | | | 102 | 44,2 | 39 | 11,6 | 514 | 17,4 | 771 | 24,0 | 1062 | 31,0 | 1370 |
| F01.15.20115 | | | 115 | 38,4 | 44 | 13,1 | 504 | 19,7 | 756 | 27,1 | 1042 | 35,0 | 1344 |
| F01.15.20127 | | | 127 | 34,1 | 48 | 14,3 | 486 | 21,4 | 729 | 29,4 | 1004 | 38,0 | 1296 |
| F01.15.20139 | | | 139 | 31,0 | 53 | 15,8 | 488 | 23,6 | 732 | 32,5 | 1009 | 42,0 | 1302 |
| F01.15.20152 | | | 152 | 28,2 | 58 | 17,2 | 486 | 25,9 | 730 | 35,6 | 1005 | 46,0 | 1297 |
| F01.15.20305 | | | 305 | 15,0 | 114 | 34,1 | 512 | 51,2 | 768 | 70,5 | 1058 | 91,0 | 1365 |
| F01.15.25025 | 25 | 12,5 | 25 | 375,0 | 9 | 2,8 | 1055 | 4,2 | 1582 | 5,8 | 2180 | 7,5 | 2813 |
| F01.15.25032 | | | 32 | 297,0 | 12 | 3,6 | 1069 | 5,4 | 1604 | 7,4 | 2210 | 9,6 | 2851 |
| F01.15.25038 | | | 38 | 219,0 | 14 | 4,1 | 903 | 6,2 | 1355 | 8,5 | 1867 | 11,0 | 2409 |
| F01.15.25044 | | | 44 | 187,0 | 16 | 4,9 | 912 | 7,3 | 1367 | 10,1 | 1884 | 13,0 | 2431 |
| F01.15.25051 | | | 51 | 156,0 | 19 | 5,6 | 878 | 8,4 | 1316 | 11,6 | 1814 | 15,0 | 2340 |
| F01.15.25064 | | | 64 | 123,0 | 24 | 7,1 | 876 | 10,7 | 1315 | 14,7 | 1811 | 19,0 | 2337 |
| F01.15.25076 | | | 76 | 99,0 | 29 | 8,6 | 854 | 12,9 | 1281 | 17,8 | 1765 | 23,0 | 2277 |
| F01.15.25089 | | | 89 | 84,0 | 34 | 10,1 | 851 | 15,2 | 1276 | 20,9 | 1758 | 27,0 | 2268 |
| F01.15.25102 | | | 102 | 73,0 | 39 | 11,6 | 849 | 17,4 | 1273 | 24,0 | 1754 | 31,0 | 2263 |
| F01.15.25115 | | | 115 | 65,0 | 44 | 13,1 | 853 | 19,7 | 1280 | 27,1 | 1764 | 35,0 | 2276 |
| F01.15.25127 | | | 127 | 57,7 | 48 | 14,3 | 822 | 21,4 | 1233 | 29,4 | 1699 | 38,0 | 2193 |
| F01.15.25139 | | | 139 | 52,7 | 53 | 15,8 | 830 | 23,6 | 1245 | 32,5 | 1715 | 42,0 | 2213 |
| F01.15.25152 | | | 152 | 47,8 | 58 | 17,2 | 825 | 25,9 | 1237 | 35,6 | 1704 | 46,0 | 2199 |
| F01.15.25178 | | | 178 | 41,0 | 66 | 19,9 | 815 | 29,8 | 1222 | 41,1 | 1684 | 53,0 | 2173 |
| F01.15.25203 | | | 203 | 35,8 | 76 | 22,9 | 819 | 34,3 | 1228 | 47,3 | 1692 | 61,0 | 2184 |
| F01.15.25305 | | | 305 | 22,9 | 114 | 34,1 | 782 | 51,2 | 1172 | 70,5 | 1615 | 91,0 | 2084 |

# WIRE SPRING, COLOUR "RED" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "ROT" DIN ISO 10243
# MOLLA A FILO, COLORE "ROSSO" DIN ISO 10243




STOCK

3D WEB

**Work Conditions**

**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

**Ø 32 - 63**

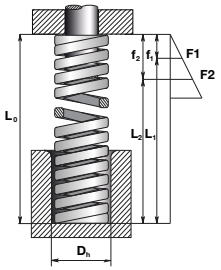


ORDER EXAMPLE

| Art. | $D_h$ = 32 | $L_0$ = 44 |
|---|---|---|
| F01.15 | 32 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.15.32038 | 32 | 16 | 38 | 388,0 | 14 | 4,1 | 1601 | 6,2 | 2401 | 8,5 | 3308 | 11,0 | 4268 |
| F01.15.32044 | | | 44 | 324,0 | 16 | 4,9 | 1580 | 7,3 | 2369 | 10,1 | 3264 | 13,0 | 4212 |
| F01.15.32051 | | | 51 | 272,0 | 19 | 5,6 | 1530 | 8,4 | 2295 | 11,6 | 3162 | 15,0 | 4080 |
| F01.15.32064 | | | 64 | 212,0 | 24 | 7,1 | 1511 | 10,7 | 2266 | 14,7 | 3122 | 19,0 | 4028 |
| F01.15.32076 | | | 76 | 172,0 | 29 | 8,6 | 1484 | 12,9 | 2225 | 17,8 | 3066 | 23,0 | 3956 |
| F01.15.32089 | | | 89 | 141,0 | 34 | 10,1 | 1428 | 15,2 | 2141 | 20,9 | 2950 | 27,0 | 3807 |
| F01.15.32102 | | | 102 | 122,0 | 39 | 11,6 | 1418 | 17,4 | 2127 | 24,0 | 2931 | 31,0 | 3782 |
| F01.15.32115 | | | 115 | 107,0 | 44 | 13,1 | 1404 | 19,7 | 2107 | 27,1 | 2902 | 35,0 | 3745 |
| F01.15.32127 | | | 127 | 93,0 | 48 | 14,3 | 1325 | 21,4 | 1988 | 29,4 | 2739 | 38,0 | 3534 |
| F01.15.32139 | | | 139 | 86,0 | 53 | 15,8 | 1355 | 23,6 | 2032 | 32,5 | 2799 | 42,0 | 3612 |
| F01.15.32152 | | | 152 | 78,0 | 58 | 17,2 | 1346 | 25,9 | 2018 | 35,6 | 2781 | 46,0 | 3588 |
| F01.15.32078 | | | 178 | 67,2 | 66 | 19,9 | 1336 | 29,8 | 2003 | 41,1 | 2760 | 53,0 | 3562 |
| F01.15.32203 | | | 203 | 59,1 | 76 | 22,9 | 1352 | 34,3 | 2028 | 47,3 | 2794 | 61,0 | 3605 |
| F01.15.32254 | | | 254 | 46,4 | 95 | 28,5 | 1322 | 42,8 | 1984 | 58,9 | 2733 | 76,0 | 3526 |
| F01.15.32305 | | | 305 | 38,0 | 114 | 34,1 | 1297 | 51,2 | 1945 | 70,5 | 2680 | 91,0 | 3458 |
| F01.15.40051 | 40 | 20 | 51 | 350,0 | 19 | 5,6 | 1969 | 8,4 | 2953 | 11,6 | 4069 | 15,0 | 5250 |
| F01.15.40064 | | | 64 | 269,0 | 24 | 7,1 | 1917 | 10,7 | 2875 | 14,7 | 3961 | 19,0 | 5111 |
| F01.15.40076 | | | 76 | 219,0 | 29 | 8,6 | 1889 | 12,9 | 2833 | 17,8 | 3904 | 23,0 | 5037 |
| F01.15.40089 | | | 89 | 190,0 | 34 | 10,1 | 1924 | 15,2 | 2886 | 20,9 | 3976 | 27,0 | 5130 |
| F01.15.40102 | | | 102 | 163,0 | 39 | 11,6 | 1895 | 17,4 | 2842 | 24,0 | 3916 | 31,0 | 5053 |
| F01.15.40115 | | | 115 | 142,0 | 44 | 13,1 | 1864 | 19,7 | 2796 | 27,1 | 3852 | 35,0 | 4970 |
| F01.15.40127 | | | 127 | 128,0 | 48 | 14,3 | 1824 | 21,4 | 2736 | 29,4 | 3770 | 38,0 | 4864 |
| F01.15.40139 | | | 139 | 115,0 | 53 | 15,8 | 1811 | 23,6 | 2717 | 32,5 | 3743 | 42,0 | 4830 |
| F01.15.40152 | | | 152 | 105,0 | 58 | 17,2 | 1811 | 25,9 | 2717 | 35,6 | 3743 | 46,0 | 4830 |
| F01.15.40178 | | | 178 | 89,0 | 66 | 19,9 | 1769 | 29,8 | 2653 | 41,1 | 3656 | 53,0 | 4717 |
| F01.15.40203 | | | 203 | 77,0 | 76 | 22,9 | 1761 | 34,3 | 2642 | 47,3 | 3640 | 61,0 | 4697 |
| F01.15.40254 | | | 254 | 61,0 | 95 | 28,5 | 1739 | 42,8 | 2608 | 58,9 | 3593 | 76,0 | 4636 |
| F01.15.40305 | | | 305 | 51,0 | 114 | 34,1 | 1740 | 51,2 | 2611 | 70,5 | 3597 | 91,0 | 4641 |
| F01.15.50064 | 50 | 25 | 64 | 413,0 | 24 | 7,1 | 2943 | 10,7 | 4414 | 14,7 | 6081 | 19,0 | 7847 |
| F01.15.50076 | | | 76 | 339,0 | 29 | 8,6 | 2924 | 12,9 | 4386 | 17,8 | 6043 | 23,0 | 7797 |
| F01.15.50089 | | | 89 | 288,0 | 34 | 10,1 | 2916 | 15,2 | 4374 | 20,9 | 6026 | 27,0 | 7776 |
| F01.15.50102 | | | 102 | 245,0 | 39 | 11,6 | 2848 | 17,4 | 4272 | 24,0 | 5886 | 31,0 | 7595 |
| F01.15.50115 | | | 115 | 215,0 | 44 | 13,1 | 2822 | 19,7 | 4233 | 27,1 | 5832 | 35,0 | 7525 |
| F01.15.50127 | | | 127 | 192,0 | 48 | 14,3 | 2736 | 21,4 | 4104 | 29,4 | 5654 | 38,0 | 7296 |
| F01.15.50139 | | | 139 | 168,0 | 53 | 15,8 | 2646 | 23,6 | 3969 | 32,5 | 5468 | 42,0 | 7056 |
| F01.15.50152 | | | 152 | 154,0 | 58 | 17,2 | 2657 | 25,9 | 3985 | 35,6 | 5490 | 46,0 | 7084 |
| F01.15.50178 | | | 178 | 134,0 | 66 | 19,9 | 2663 | 29,8 | 3995 | 41,1 | 5504 | 53,0 | 7102 |
| F01.15.50203 | | | 203 | 117,0 | 76 | 22,9 | 2676 | 34,3 | 4015 | 47,3 | 5531 | 61,0 | 7137 |
| F01.15.50254 | | | 254 | 89,0 | 95 | 28,5 | 2537 | 42,8 | 3805 | 58,9 | 5242 | 76,0 | 6764 |
| F01.15.50305 | | | 305 | 73,0 | 114 | 34,1 | 2491 | 51,2 | 3737 | 70,5 | 5148 | 91,0 | 6643 |
| F01.15.63076 | 63 | 38 | 76 | 618,0 | 29 | 8,6 | 5330 | 12,9 | 7995 | 17,8 | 11016 | 23,0 | 14214 |
| F01.15.63089 | | | 89 | 515,0 | 34 | 10,1 | 5214 | 15,2 | 7822 | 20,9 | 10776 | 27,0 | 13905 |
| F01.15.63102 | | | 102 | 438,0 | 39 | 11,6 | 5092 | 17,4 | 7638 | 24,0 | 10523 | 31,0 | 13578 |
| F01.15.63115 | | | 115 | 370,0 | 44 | 13,1 | 4856 | 19,7 | 7284 | 27,1 | 10036 | 35,0 | 12950 |
| F01.15.63127 | | | 127 | 333,0 | 48 | 14,3 | 4745 | 21,4 | 7118 | 29,4 | 9807 | 38,0 | 12654 |
| F01.15.63152 | | | 152 | 269,0 | 58 | 17,2 | 4640 | 25,9 | 6960 | 35,6 | 9590 | 46,0 | 12374 |
| F01.15.63178 | | | 178 | 226,0 | 66 | 19,9 | 4492 | 29,8 | 6738 | 41,1 | 9283 | 53,0 | 11978 |
| F01.15.63203 | | | 203 | 198,0 | 76 | 22,9 | 4529 | 34,3 | 6794 | 47,3 | 9361 | 61,0 | 12078 |
| F01.15.63254 | | | 254 | 155,0 | 95 | 28,5 | 4418 | 42,8 | 6626 | 58,9 | 9130 | 76,0 | 11780 |
| F01.15.63305 | | | 305 | 128,0 | 114 | 34,1 | 4368 | 51,2 | 6552 | 70,5 | 9027 | 91,0 | 11648 |

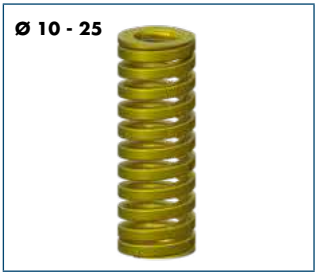
# WIRE SPRING, COLOUR "YELLOW" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "GELB" DIN ISO 10243
# MOLLA A FILO, COLORE "GIALLO" DIN ISO 10243




**Work Conditions**
**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

STOCK

3D WEB

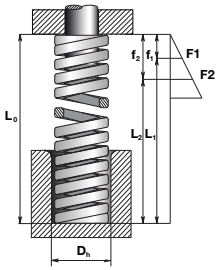



ORDER EXAMPLE

| Art. | $D_h$ = 10 | $L_0$ = 44 |
|---|---|---|
| F01.20 | 10 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **OMCR CODE** | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.20.10025 | 10 | 5 | 25 | 36,8 | 8 | 2,3 | 86 | 3,5 | 128 | 4,8 | 177 | 6,2 | 228 |
| F01.20.10032 | | | 32 | 27,9 | 10 | 3,0 | 84 | 4,5 | 126 | 6,2 | 173 | 8,0 | 223 |
| F01.20.10038 | | | 38 | 23,7 | 12 | 3,6 | 84 | 5,3 | 127 | 7,4 | 175 | 9,5 | 225 |
| F01.20.10044 | | | 44 | 19,2 | 14 | 4,1 | 79 | 6,2 | 119 | 8,5 | 164 | 11,0 | 211 |
| F01.20.10051 | | | 51 | 16,5 | 16 | 4,9 | 80 | 7,3 | 121 | 10,1 | 166 | 13,0 | 215 |
| F01.20.10064 | | | 64 | 13,2 | 20 | 6,0 | 79 | 9,0 | 119 | 12,4 | 164 | 16,0 | 211 |
| F01.20.10076 | | | 76 | 10,9 | 24 | 7,1 | 78 | 10,7 | 117 | 14,7 | 161 | 19,0 | 207 |
| F01.20.10305 | | | 305 | 2,6 | 95 | 28,5 | 74 | 42,8 | 111 | 58,9 | 153 | 76,0 | 198 |
| F01.20.13025 | 12,5 | 6,3 | 25 | 58,5 | 8 | 2,3 | 136 | 3,5 | 204 | 4,8 | 281 | 6,2 | 363 |
| F01.20.13032 | | | 32 | 43,9 | 10 | 3,0 | 132 | 4,5 | 198 | 6,2 | 272 | 8,0 | 351 |
| F01.20.13038 | | | 38 | 36,0 | 12 | 3,6 | 128 | 5,3 | 192 | 7,4 | 265 | 9,5 | 342 |
| F01.20.13044 | | | 44 | 30,3 | 14 | 4,1 | 125 | 6,2 | 188 | 8,5 | 258 | 11,0 | 333 |
| F01.20.13051 | | | 51 | 26,2 | 16 | 4,9 | 128 | 7,3 | 192 | 10,1 | 264 | 13,0 | 341 |
| F01.20.13064 | | | 64 | 21,2 | 20 | 6,0 | 127 | 9,0 | 191 | 12,4 | 263 | 16,0 | 339 |
| F01.20.13076 | | | 76 | 17,1 | 24 | 7,1 | 122 | 10,7 | 183 | 14,7 | 252 | 19,0 | 325 |
| F01.20.13089 | | | 89 | 14,5 | 28 | 8,3 | 120 | 12,4 | 179 | 17,1 | 247 | 22,0 | 319 |
| F01.20.13305 | | | 305 | 4,3 | 95 | 28,5 | 123 | 42,8 | 184 | 58,9 | 253 | 76,0 | 327 |
| F01.20.16025 | 16 | 8 | 25 | 118,0 | 8 | 2,3 | 274 | 3,5 | 412 | 4,8 | 567 | 6,2 | 732 |
| F01.20.16032 | | | 32 | 89,0 | 10 | 3,0 | 267 | 4,5 | 401 | 6,2 | 552 | 8,0 | 712 |
| F01.20.16038 | | | 38 | 72,1 | 12 | 3,6 | 257 | 5,3 | 385 | 7,4 | 531 | 9,5 | 685 |
| F01.20.16044 | | | 44 | 60,9 | 14 | 4,1 | 251 | 6,2 | 377 | 8,5 | 519 | 11,0 | 670 |
| F01.20.16051 | | | 51 | 52,3 | 16 | 4,9 | 255 | 7,3 | 382 | 10,1 | 527 | 13,0 | 680 |
| F01.20.16064 | | | 64 | 41,2 | 20 | 6,0 | 247 | 9,0 | 371 | 12,4 | 511 | 16,0 | 659 |
| F01.20.16076 | | | 76 | 34,1 | 24 | 7,1 | 243 | 10,7 | 364 | 14,7 | 502 | 19,0 | 648 |
| F01.20.16089 | | | 89 | 29,5 | 28 | 8,3 | 243 | 12,4 | 365 | 17,1 | 503 | 22,0 | 649 |
| F01.20.16102 | | | 102 | 25,6 | 33 | 9,8 | 250 | 14,6 | 374 | 20,1 | 516 | 26,0 | 666 |
| F01.20.16305 | | | 305 | 8,4 | 95 | 28,5 | 239 | 42,8 | 359 | 58,9 | 495 | 76,0 | 638 |
| F01.20.20025 | 20 | 10 | 25 | 293,0 | 8 | 2,3 | 681 | 3,5 | 1022 | 4,8 | 1408 | 6,2 | 1817 |
| F01.20.20032 | | | 32 | 224,0 | 10 | 3,0 | 672 | 4,5 | 1008 | 6,2 | 1389 | 8,0 | 1792 |
| F01.20.20038 | | | 38 | 177,0 | 12 | 3,6 | 631 | 5,3 | 946 | 7,4 | 1303 | 9,5 | 1682 |
| F01.20.20044 | | | 44 | 149,0 | 14 | 4,1 | 615 | 6,2 | 922 | 8,5 | 1270 | 11,0 | 1639 |
| F01.20.20051 | | | 51 | 128,0 | 16 | 4,9 | 624 | 7,3 | 936 | 10,1 | 1290 | 13,0 | 1664 |
| F01.20.20064 | | | 64 | 99,0 | 20 | 6,0 | 594 | 9,0 | 891 | 12,4 | 1228 | 16,0 | 1584 |
| F01.20.20076 | | | 76 | 81,7 | 24 | 7,1 | 582 | 10,7 | 873 | 14,7 | 1203 | 19,0 | 1552 |
| F01.20.20089 | | | 89 | 69,5 | 28 | 8,3 | 573 | 12,4 | 860 | 17,1 | 1185 | 22,0 | 1529 |
| F01.20.20102 | | | 102 | 60,6 | 33 | 9,8 | 591 | 14,6 | 886 | 20,1 | 1221 | 26,0 | 1576 |
| F01.20.20115 | | | 115 | 53,0 | 36 | 10,9 | 576 | 16,3 | 865 | 22,5 | 1191 | 29,0 | 1537 |
| F01.20.20127 | | | 127 | 47,5 | 40 | 12,0 | 570 | 18,0 | 855 | 24,8 | 1178 | 32,0 | 1520 |
| F01.20.20139 | | | 139 | 43,0 | 44 | 13,1 | 564 | 19,7 | 847 | 27,1 | 1166 | 35,0 | 1505 |
| F01.20.20152 | | | 152 | 39,0 | 48 | 14,3 | 556 | 21,4 | 834 | 29,4 | 1149 | 38,0 | 1482 |
| F01.20.20305 | | | 305 | 21,2 | 95 | 28,5 | 604 | 42,8 | 906 | 58,9 | 1249 | 76,0 | 1611 |
| F01.20.25025 | 25 | 12,5 | 25 | 459,0 | 8 | 2,3 | 1067 | 3,5 | 1601 | 4,8 | 2206 | 6,2 | 2846 |
| F01.20.25032 | | | 32 | 374,4 | 10 | 3,0 | 1123 | 4,5 | 1685 | 6,2 | 2321 | 8,0 | 2995 |
| F01.20.25038 | | | 38 | 346,0 | 12 | 3,6 | 1233 | 5,3 | 1849 | 7,4 | 2547 | 9,5 | 3287 |
| F01.20.25044 | | | 44 | 244,0 | 14 | 4,1 | 1007 | 6,2 | 1510 | 8,5 | 2080 | 11,0 | 2684 |
| F01.20.25051 | | | 51 | 207,5 | 16 | 4,9 | 1012 | 7,3 | 1517 | 10,1 | 2091 | 13,0 | 2698 |
| F01.20.25064 | | | 64 | 161,0 | 20 | 6,0 | 966 | 9,0 | 1449 | 12,4 | 1996 | 16,0 | 2576 |
| F01.20.25076 | | | 76 | 130,8 | 24 | 7,1 | 932 | 10,7 | 1398 | 14,7 | 1926 | 19,0 | 2485 |
| F01.20.25089 | | | 89 | 110,5 | 28 | 8,3 | 912 | 12,4 | 1367 | 17,1 | 1884 | 22,0 | 2431 |
| F01.20.25102 | | | 102 | 96,3 | 33 | 9,8 | 939 | 14,6 | 1408 | 20,1 | 1940 | 26,0 | 2504 |
| F01.20.25115 | | | 115 | 85,7 | 36 | 10,9 | 932 | 16,3 | 1398 | 22,5 | 1926 | 29,0 | 2485 |
| F01.20.25127 | | | 127 | 76,3 | 40 | 12,0 | 916 | 18,0 | 1373 | 24,8 | 1892 | 32,0 | 2442 |
| F01.20.25139 | | | 139 | 68,9 | 44 | 13,1 | 904 | 19,7 | 1357 | 27,1 | 1869 | 35,0 | 2412 |
| F01.20.25152 | | | 152 | 63,5 | 48 | 14,3 | 905 | 21,4 | 1357 | 29,4 | 1870 | 38,0 | 2413 |
| F01.20.25178 | | | 178 | 53,9 | 55 | 16,5 | 889 | 24,8 | 1334 | 34,1 | 1838 | 44,0 | 2372 |
| F01.20.25203 | | | 203 | 47,0 | 64 | 19,1 | 899 | 28,7 | 1348 | 39,5 | 1858 | 51,0 | 2397 |
| F01.20.25305 | | | 305 | 30,9 | 95 | 28,5 | 881 | 42,8 | 1321 | 58,9 | 1820 | 76,0 | 2348 |

# WIRE SPRING, COLOUR "YELLOW" DIN ISO 10243
# SCHRAUBENDRUCKFEDER, KENNFARBE "GELB" DIN ISO 10243
# MOLLA A FILO, COLORE "GIALLO" DIN ISO 10243




STOCK

3D WEB

**Work Conditions**

**f1** = pre-compression, min 13% Fbl
**F1** = spring force when compressed f1
**f2** = work travel, max 80% Fbl
**F2** = spring force when compressed f2 (N)
**Dh** = Hole diameter (mm)
**Ds** = Rod Diameter (mm)
**Lo** = Free lenght (mm)
**Rg** = Force / displacement rate (N/mm)
**Fbl** = Max deflection (mm)

**Ø 32 - 63**



ORDER EXAMPLE

| Art. | $D_h$ = 32 | $L_0$ = 44 |
|---|---|---|
| F01.20 | 32 | 044 |

| | | | | | | 30%$f_{BL}$ | | 45%$f_{BL}$ | | 62%$f_{BL}$ | | 80%$f_{BL}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OMCR CODE | $D_h$ | $D_s$ | $L_0$ | $R_G$ | $f_{BL}$ | mm | N | mm | N | mm | N | mm | N |
| F01.20.32038 | 32 | 16 | 38 | 528,2 | 12 | 3,6 | 1882 | 5,3 | 2823 | 7,4 | 3889 | 9,5 | 5018 |
| F01.20.32044 | | | 44 | 424,4 | 14 | 4,1 | 1751 | 6,2 | 2626 | 8,5 | 3618 | 11,0 | 4668 |
| F01.20.32051 | | | 51 | 353,0 | 16 | 4,9 | 1721 | 7,3 | 2581 | 10,1 | 3557 | 13,0 | 4589 |
| F01.20.32064 | | | 64 | 269,2 | 20 | 6,0 | 1615 | 9,0 | 2423 | 12,4 | 3338 | 16,0 | 4307 |
| F01.20.32076 | | | 76 | 218,5 | 24 | 7,1 | 1557 | 10,7 | 2335 | 14,7 | 3217 | 19,0 | 4152 |
| F01.20.32089 | | | 89 | 180,3 | 28 | 8,3 | 1488 | 12,4 | 2231 | 17,1 | 3074 | 22,0 | 3967 |
| F01.20.32102 | | | 102 | 155,0 | 33 | 9,8 | 1511 | 14,6 | 2267 | 20,1 | 3123 | 26,0 | 4030 |
| F01.20.32115 | | | 115 | 140,0 | 36 | 10,9 | 1523 | 16,3 | 2284 | 22,5 | 3147 | 29,0 | 4060 |
| F01.20.32127 | | | 127 | 124,0 | 40 | 12,0 | 1488 | 18,0 | 2232 | 24,8 | 3075 | 32,0 | 3968 |
| F01.20.32139 | | | 139 | 112,3 | 44 | 13,1 | 1474 | 19,7 | 2211 | 27,1 | 3046 | 35,0 | 3931 |
| F01.20.32152 | | | 152 | 102,0 | 48 | 14,3 | 1454 | 21,4 | 2180 | 29,4 | 3004 | 38,0 | 3876 |
| F01.20.32078 | | | 178 | 88,2 | 55 | 16,5 | 1455 | 24,8 | 2183 | 34,1 | 3008 | 44,0 | 3881 |
| F01.20.32203 | | | 203 | 76,0 | 64 | 19,1 | 1454 | 28,7 | 2180 | 39,5 | 3004 | 51,0 | 3876 |
| F01.20.32254 | | | 254 | 60,8 | 80 | 24,0 | 1459 | 36,0 | 2189 | 49,6 | 3016 | 64,0 | 3891 |
| F01.20.32305 | | | 305 | 49,0 | 95 | 28,5 | 1397 | 42,8 | 2095 | 58,9 | 2886 | 76,0 | 3724 |
| F01.20.40051 | 40 | 20 | 51 | 628,0 | 16 | 4,9 | 3062 | 7,3 | 4592 | 10,1 | 6327 | 13,0 | 8164 |
| F01.20.40064 | | | 64 | 487,0 | 20 | 6,0 | 2922 | 9,0 | 4383 | 12,4 | 6039 | 16,0 | 7792 |
| F01.20.40076 | | | 76 | 379,0 | 24 | 7,1 | 2700 | 10,7 | 4051 | 14,7 | 5581 | 19,0 | 7201 |
| F01.20.40089 | | | 89 | 321,0 | 28 | 8,3 | 2648 | 12,4 | 3972 | 17,1 | 5473 | 22,0 | 7062 |
| F01.20.40102 | | | 102 | 281,0 | 33 | 9,8 | 2740 | 14,6 | 4110 | 20,1 | 5662 | 26,0 | 7306 |
| F01.20.40115 | | | 115 | 245,0 | 36 | 10,9 | 2664 | 16,3 | 3997 | 22,5 | 5506 | 29,0 | 7105 |
| F01.20.40127 | | | 127 | 221,0 | 40 | 12,0 | 2652 | 18,0 | 3978 | 24,8 | 5481 | 32,0 | 7072 |
| F01.20.40139 | | | 139 | 190,0 | 44 | 13,1 | 2494 | 19,7 | 3741 | 27,1 | 5154 | 35,0 | 6650 |
| F01.20.40152 | | | 152 | 168,0 | 48 | 14,3 | 2394 | 21,4 | 3591 | 29,4 | 4948 | 38,0 | 6384 |
| F01.20.40178 | | | 178 | 146,0 | 55 | 16,5 | 2409 | 24,8 | 3614 | 34,1 | 4979 | 44,0 | 6424 |
| F01.20.40203 | | | 203 | 132,0 | 64 | 19,1 | 2525 | 28,7 | 3787 | 39,5 | 5217 | 51,0 | 6732 |
| F01.20.40254 | | | 254 | 107,0 | 80 | 24,0 | 2568 | 36,0 | 3852 | 49,6 | 5307 | 64,0 | 6848 |
| F01.20.40305 | | | 305 | 87,8 | 95 | 28,5 | 2502 | 42,8 | 3753 | 58,9 | 5171 | 76,0 | 6673 |
| F01.20.50064 | 50 | 25 | 64 | 709,0 | 20 | 6,0 | 4254 | 9,0 | 6381 | 12,4 | 8792 | 16,0 | 11344 |
| F01.20.50076 | | | 76 | 572,0 | 24 | 7,1 | 4076 | 10,7 | 6113 | 14,7 | 8423 | 19,0 | 10868 |
| F01.20.50089 | | | 89 | 475,0 | 28 | 8,3 | 3919 | 12,4 | 5878 | 17,1 | 8099 | 22,0 | 10450 |
| F01.20.50102 | | | 102 | 405,0 | 33 | 9,8 | 3949 | 14,6 | 5923 | 20,1 | 8161 | 26,0 | 10530 |
| F01.20.50115 | | | 115 | 352,0 | 36 | 10,9 | 3828 | 16,3 | 5742 | 22,5 | 7911 | 29,0 | 10208 |
| F01.20.50127 | | | 127 | 316,0 | 40 | 12,0 | 3792 | 18,0 | 5688 | 24,8 | 7837 | 32,0 | 10112 |
| F01.20.50139 | | | 139 | 274,0 | 44 | 13,1 | 3596 | 19,7 | 5394 | 27,1 | 7432 | 35,0 | 9590 |
| F01.20.50152 | | | 152 | 239,0 | 48 | 14,3 | 3406 | 21,4 | 5109 | 29,4 | 7039 | 38,0 | 9082 |
| F01.20.50178 | | | 178 | 215,0 | 55 | 16,5 | 3548 | 24,8 | 5321 | 34,1 | 7332 | 44,0 | 9460 |
| F01.20.50203 | | | 203 | 187,0 | 64 | 19,1 | 3576 | 28,7 | 5365 | 39,5 | 7391 | 51,0 | 9537 |
| F01.20.50254 | | | 254 | 153,0 | 80 | 24,0 | 3672 | 36,0 | 5508 | 49,6 | 7589 | 64,0 | 9792 |
| F01.20.50305 | | | 305 | 127,0 | 95 | 28,5 | 3620 | 42,8 | 5429 | 58,9 | 7480 | 76,0 | 9652 |
| F01.20.63076 | 63 | 38 | 76 | 952,0 | 24 | 7,1 | 6783 | 10,7 | 10175 | 14,7 | 14018 | 19,0 | 18088 |
| F01.20.63089 | | | 89 | 819,0 | 28 | 8,3 | 6757 | 12,4 | 10135 | 17,1 | 13964 | 22,0 | 18018 |
| F01.20.63102 | | | 102 | 700,0 | 33 | 9,8 | 6825 | 14,6 | 10238 | 20,1 | 14105 | 26,0 | 18200 |
| F01.20.63115 | | | 115 | 620,0 | 36 | 10,9 | 6743 | 16,3 | 10114 | 22,5 | 13935 | 29,0 | 17980 |
| F01.20.63127 | | | 127 | 565,0 | 40 | 12,0 | 6780 | 18,0 | 10170 | 24,8 | 14012 | 32,0 | 18080 |
| F01.20.63152 | | | 152 | 458,0 | 48 | 14,3 | 6527 | 21,4 | 9790 | 29,4 | 13488 | 38,0 | 17404 |
| F01.20.63178 | | | 178 | 384,0 | 55 | 16,5 | 6336 | 24,8 | 9504 | 34,1 | 13094 | 44,0 | 16896 |
| F01.20.63203 | | | 203 | 337,0 | 64 | 19,1 | 6445 | 28,7 | 9668 | 39,5 | 13320 | 51,0 | 17187 |
| F01.20.63254 | | | 254 | 263,0 | 80 | 24,0 | 6312 | 36,0 | 9468 | 49,6 | 13045 | 64,0 | 16832 |
| F01.20.63305 | | | 305 | 218,0 | 95 | 28,5 | 6213 | 42,8 | 9320 | 58,9 | 12840 | 76,0 | 16568 |



# Gas Springs
# Gasdruckfedern
# Molle a Gas

OMCR®

STANDARD DIE COMPONENTS

MAIN INDEX

# Gas Springs
# Gasdruckfedern
# Molle a Gas

GB The **Gas Springs** line close a gap where ever the accent is on accommodation of the utmost force component within a minimum of space – or where exceedingly large travel is demanded : OMCR Gas springs take care of both demands, even in combination.The pressure medium is a commercially available, environment-friendly nitrogen. OMCR gas springs have a standard charge pressure of max. 150 bar (some special to 180 bar). Depending on the spring size and spring type, starting spring forces of 20 daN to 20000 daN can be realised.

D OMCR Gasdruckfedern werden eingesetzt, wenn große Federkräfte auf kleinstmöglichem Raum unterzubringen sind, wenn große Federwege benötigt werden oder wenn beide Forderungen gleichzeitig erfüllt werden müssen.Das Druckmedium ist handelsüblicher und umweltfreundlicher Stickstoff.OMCR Gasdruckfedern werden serienmäßig bis max. 150 bar (180 bar) gefüllt.Je nach Federgröße und Federtyp lassen sich Anfangs-Federkräfte von 20 daN bis 20000 daN realisieren.

I Le **molle a gas** OMCR vengono utilizzate quando è necessaria la sistemazione di un componente con massima forza entro un minimo spazio - o dove è richiesta una corsa estremamente grande: le molle a gas OMCR ricoprono entrambe le esigenze, anche in combinazione. Il gas utilizzato per la messa in pressione è un azoto ecologico disponibile in commercio.Le molle a gas OMCR hanno una pressione di carica standard di max. 150bar (alcune speciali a 180 bar).A seconda delle dimensioni della molla e del tipo di molla, è possibile realizzare forze di molla di partenza da 20 daN a 20000 daN.

# OMCR®

STANDARD DIE COMPONENTS



## (GB) PRESSURE BUILD UP

In operation the piston rod enters the spring space whose volume is progressively reduced.

Depending on the stroke length, the volume of the pressure chamber is reduced. The resulting increase in pressure can be read from the diagram of the spring size as a factor. The final force is therefore the initial spring force multiplicated to Pressure build-up factor. (Fig.2)

Modification of charge pressure allows variation of the force rating and can be predetermined from the spring diagram. (Fig.1)

## (D) DRUCKAUFBAU

Beim Federhub dringt die Kolbenstange in den Druckraum ein. Je nach Hublänge wird das Volumen des Druckraumes verkleinert. Der dadurch bedingte Druckanstieg ist vom Schaubild der Federgröße als Faktor abzulesen. Die Endkraft ist also die Anfangsfederkraft Druckaufbaufaktor. (Abb.2)

Durch den einstellbaren Fülldruck lässt sich die Anfangsfederkraft varieren. Diese ist vom Schaubild der jeweiligen Federtype abzulesen.. (Abb.1)

## (I) INCREMENTO PRESSIONE

In lavoro, l'asta del pistone penetra nella cavità del corpo cilindrico. Con l'aumento della lunghezza della corsa eseguita, viene ridotto il volume del vano di compressione. L'incremento di pressione determinato da ciò potrà essere visto nel diagramma relativo e venir letto come un coefficiente. La forza finale esercitata dalla molla è data, perciò, dalla sua forza iniziale moltiplicata per per tale coefficiente. (Fig.2)

La forza iniziale può variare per mezzo della pressione di carica , e può esser calcolata dal diagramma specifico della molla. (Fig.1)

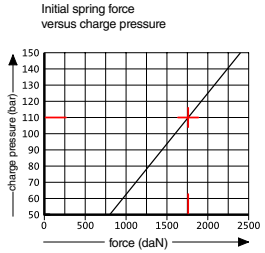



Fig. 1

Example:

Gas spring loaded at a pressure of 150 Bar, will give a initial force of 2400 DaN.
(code G01.020.02400xxx)

Gas spring loaded at a pressure of 110 Bar, its initial force will be 1750 DaN
(code G01.020.02400xxxW110)

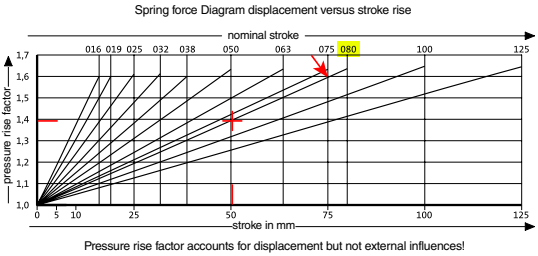



Fig. 2

Example:

(code G01.020.02400080)
Nominal stroke 80mm, used stroke 50mm:
build up factor: 1,4 strength after 50mm of travel :
2400 x 1.4 : 3360 DaN

(code G01.020.02400080W110)
Nominal stroke 80mm, used stroke 50mm:
coefficient 1,4 Istrength after 50mm of travel : 1750 x 1.4 : 2450 DaN

**ALL OMCR GAS SPRINGS** MEET THE REQUIREMENTS OF THE **PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU.**




## GB DIRECTIVE 2014/68/EU

The Pressure Equipment Directive (2014/68/EU) was ratified by the European parliament and the Council of Europe in May 1997. The requirements of the pressure equipment directive came into force throughout the EU on 29 May 2002.

The directive defines pressure equipment as vessels, pipework, safety devices and pressure accessories. In terms of the directive a vessel is a casing which is designed and manufactured to contain fluids under pressure.

It follows from this definition that nitrogen gas springs of all sizes are deemed to be pressure vessels and must in this respect comply with the pressure equipment directive (2014/68/EU) from 29 May 2002.

## D RICHTLINIE 2014/68/EU

Die Druckgeräte Richtlinie (2014/68/EU) wurde im Mai 1997 vom Europäischen Parlamentund vom Europarat angenommen. Seit dem 29. Mai 2002 sind die Bestimmungen der Druckgeräte-Richtlinie in der gesamten EU zwingend. Die Richtlinie definiert Druckgeräte als Behälter, Rohrleitungen, Sicherheitszubehör und Druckzubehör. Gemäß der EN Richtlinie ist ein Behälter ein Gehäuse, das für die Aufnahme unter Druck stehender Fluide konstruiert und hergestellt wurde.Aus dieser Definition geht hervor, dassStickstoff Gasdruckfedern aller Größen als Druckbehälter zu gelten haben und in dieser Eigenschaft nach dem 29. Mai 2002 der Druckgeräte-Richtlinie (2014/68/EU) entsprechen müssen.

## I DIRETTIVA 2014/68/EU

La Direttiva sulle Apparecchiature a Pressione (2014/68/UE) è stata accolta nel maggio 1997 dal Parlamento Europeo e dal Consiglio d'Europa. Dal 29 maggio 2002 le disposizioni della Direttiva sulle Apparecchiature a Pressione sono effettive nell'intera Comunità Europea. La Direttiva definisce come apparecchiature a pressione: i contenitori, le condutture, gli accessori di sicurezza e gli accessori sottoposti a pressione, connessi con i vari sistemi a pressione.In conformità alla Direttiva una molla a gas è un recipiente che è stato progettato e costruito per contenere fluidi posti sotto pressione.Da questa definizione deriva che le molle a gas a pressione di azoto di tutte le grandezze sono da considerarsi dei contenitori a pressione e che, per questa loro caratteristica, esse devono essere conformi – a partire dal 29 maggio 2002 – al dettato della Direttiva sulle Apparecchiature a Pressione (2014/68/UE).

## (GB) MAINTENANCE

OMCR gas springs are designed for long-term maintenance-free operation. We recommend lightly oiling the piston rod before using. For more informations, please see instruction manual.

### ATTENTION

When safety functions are triggered (overstroke, return stroke, or overpressure protection), the gas springs can no longer be repaired!

### CAUTION

Gas springs may only be charged with commercial grade 5.0 nitrogen gas.

### ACCESSORIES

The range of accessories for gas springs includes fastening devices,charging and control units, screw connections and lines for setting up compound systems.OMCR is not liable if fittings that are not original OMCR fittings or fastening,accessory, and attachment parts that are not released by OMCR are used.

## (D) MAINTENANCE

OMCR-Gasdruckfedern sind für wartungsfreien Dauerbetrieb ausgelegt. Vor dem Einsatz ist zu empfehlen, die Kolbenstange leicht einzuölen. Siehe Benutzerhandbuch für weitere Informationen.

### ACHTUNG

Bei ausgelösten Sicherheitsfunktionen (Überhub-Schutz, Rückhub- Schutz oder Überdruck-Schutz sind die Gasdruckfedern nicht mehr reparabel!

### ACHTUNG

Gasdruckfedern dürfen nur mit handelsüblichem Stickstoff der Güteklasse 5.0 gefüllt werden.

### ZUBEHOR

Das Gasdruckfeder Zubehörprogramm umfasst Befestigungen, Auffüll - und Kontrollgeräte, Verschraubungen und Leitungen für Verbundsystemanordnung. Bei Verwendung von nicht Original- OMCR- oder von OMCR nicht freigegebenen Befestigungs-, Zubehör- und Anbauteilen erlischt jegliche Haftung.

## (I) MANUTENZIONE

Le molle a gas OMCR sono state progettate per un servizio continuativo senza manutenzione. Si raccomanda di oliare leggermente l'asta del pistone prima dell'impiego. Vedi manuale d'uso per ulteriori informazioni.

### ATTENZIONE

Se le funzioni di sicurezza sono state attivate, (protezione da sovracorsa, protezione da corsa di ritorno o protezione da sovrappressione), le molle a gas non sono più riparabili!

### ATTENZIONE

Le molle a gas devono essere caricate esclusivamente con azoto della classe di qualità 5.0 commerciale.

### ACCESSORI

L'assortimento di accessori disponibili per le molle a gas comprende elementi di fissaggio, apparecchiature di controllo, raccorderia e tubi per la realizzazione di sistemi a molle multiple. L'utilizzo di componenti di fissaggio e componenti accessorie non originali OMCR o non autorizzate da OMCR comporta l'annullamento della garanzia

## (GB) MOUNTING EXAMPLES

Mounting possibilities for gas springs are listed below. For additional information on mounting, see the corresponding pages in the catalogue.

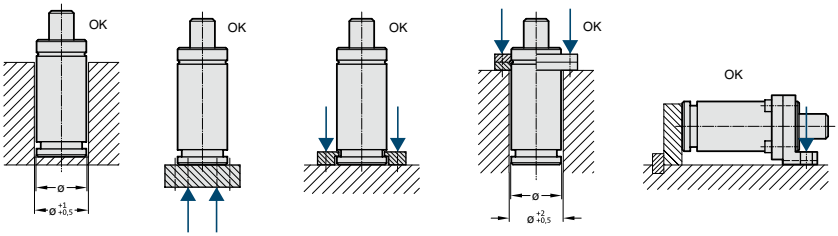
## (D) MOUNTING EXAMPLES

Die Befestigungsmöglichkeiten werden im Folgenden beschrieben. Weitere Informationen zur Montage finden Sie auf den entsprechenden Seiten des Katalogs.

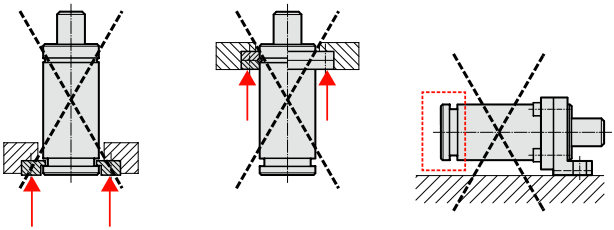
## (I) ESEMPI DI MONTAGGIO

Le possibilità di fisssaggio sono descritte di seguito. Per maggiori informazioni sui montaggi,vedi le pagine dedicate nel catalogo.

**CORRECT FIXING :**




**INCORRECT FIXING :**



## (GB) MOUNTING INSTRUCTIONS

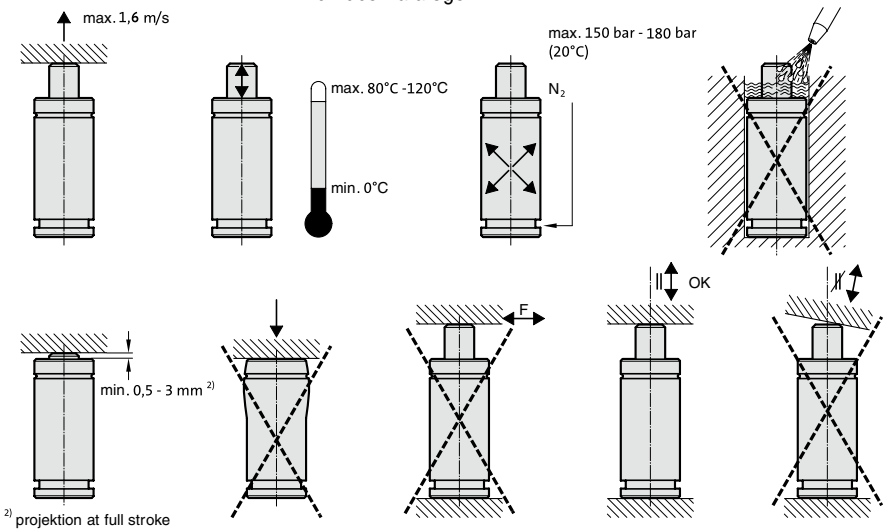
To achieve the best possible service-life and safety from the gas spring, the directions below must be followed.

## (D) MONTAGEBEISPIELE

Die Befestigungsmöglichkeiten werden im Folgenden beschrieben.WeitereInformationenzur Montage finden Sie auf den entsprechenden Seiten des Katalogs.

## (I) ISTRUZIONI DI MONTAGGIO

Qui di seguito vengono illustrate alcune possibili modalità di montaggio delle molle a gas.




## (GB) WARNINGS

1. Secure the gas spring to the tool/machine whenever possible, using the threaded hole(s) in the base of the gas spring or a suitable flange.
2. The threaded hole in the piston rod top should not be used for mounting purposes. It is only to be used when carrying and servicing the gas spring.
3. Do not use the gas spring in such a way that the piston rod is realised freely from its compressed position, as this could cause internal damage to the gas spring.r).
4. Make sure the gas spring is mounted parallel to the direction of the compression stroke.
5. Ensure the contact surface of the piston rod top is perpendicular to the direction of the compression stroke and is sufficiently hardened.
6. The gas spring should not be subjected to the side loads.
7. Protect the piston rod against mechanical damage and contact with fluids.
8. We recommend providing a stroke reserve of 10% of the nominal stroke length or 5 mm.
9. The maximum charging pressure as a function of the working temperature must not be exceeded as it may effect the safety of the product.
10. Exceeding the gas spring's recommended operating temperature will shorten the service-life of the gas spring.
11. The entire contact surface of the piston rod / piston should be used.

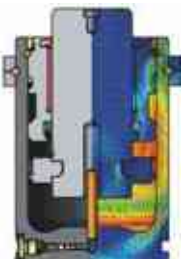
## (D) WARNUNG

1. Wenn möglich, Sichern der Gasdruckfeder im Werkzeug / Maschine unter Verwendung der im Federboden eingebrachten Gewindebohrungen oder Befestigungselemente.
2. Die Gewindebohrung in der Kolbenstange darf nicht zur Befestigung der Gasdruckfeder verwendet werden. Sie dient ausschließlich zu Transport und Wartungszwecken.
3. Gasdruckfeder nicht in einer Art und Weise einsetzen, dass die Kolbenstange abrupt aus der gedrückten Position frei wird (innere Beschädigung der Gasdruckfeder).
4. Gasdruckfeder parallel zur Krafteinleitung einbauen.
5. Kontaktoberfläche zur Betätigung der Kolbenstange muss rechtwinklig zum Gasdruckfederhub sein und sollte eine hinreichende Härte aufweisen.
6. Es dürfen keine seitlichen Kräfte auf die Gasdruckfeder wirken.
7. Kolbenstange gegen mechanische Beschädigung und Kontakt mit Flüssigkeiten schützen.
8. Es wird empfohlen, eine Hubreserve von 10% der nominellen Hublänge oder 5 mm vorzusehen.
9. Der maximale Fülldruck (bei 20°C) darf nicht überschritten werden, da ansonsten keine Systemsicherheit gewährleistet werden kann.
10. Ein Überschreiten der max. zulässigen Arbeitstemperatur verringert die Lebensdauer der Gasdruckfeder wesentlich.
11. Die Oberfläche der Kolbenstange/des Kolbens sollte komplett beaufschlagt werden

## (I) AVVERTENZE

1. Quando possibile è preferibile effettuare il fissaggio della molla nello stampo/macchina utilizzando i fori filettati esistenti nel fondello della molla, oppure uno degli elementi di fissaggio forniti a richiesta.
2. Il foro filettato esistente nel pistone non deve venir utilizzato per il fissaggio della molla. Essodeve servire esclusivamente per le operazioni di trasporto e manutenzione.
3. Non si deve installare la molla a gas in maniera tale che, nel funzionamento, l'asta del pistone possa venir liberata in modo improvviso e non frenato dalla posizione di molla compressa (ne potrebbero derivare dei danneggiamenti agli organi interni della molla).
4. Montare la molla a gas in modo da assicurarle una posizione parallela alla direzione della forza di compressione con cui verrà azionata.
5. La superficie di appoggio che preme sulla testa del pistone per comprimere la molla deve essere perpendicolare alla corsa del pistone stesso e dovrebbe anche presentare unadurezza sufficiente a svolgere con continuità tale funzione.
6. La molla non deve mai venir sollecitata da forze laterali.
7. Proteggere l'asta del pistone da danneggiamenti dovuti a urti meccanici, oppure a contatto con fluidi esterni.
8. Si raccomanda inoltre di prevedere una riserva di corsa pari al 10% della corsa nominale o di 5 mm.
9. Non si deve superare la massima pressione di carica (a 20°C) dipendente dalla temperaturadi funzionamento perché diversamente non potrà venir garantita la sicurezza del sistema.
10. Il superamento della massima temperatura ammissibile per il funzionamento accorcia in misura sostanziale la durata utile della molla a gas.
11. La superficie del pistone / dell'asta del pistone deve venir integralmente coinvolta nel funzionamento



## GB PED APPROVED

PED Approval for 2 million strokes. OMCR Gas Springs are developed, manufactured and tested for a minimum of 2 million* full strokes in accordance with PED 2014/68/EU. The springs deliver this full performance at the maximum permissible limits in terms of filling pressure and operating temperature - even when combined with any of the various mounting types available.

## D PED ZULASSUNG

OMCR Gasdruckfedern sind gemäß DGRL 2014/68/EU entwickelt, hergestellt und geprüft für min. 2 Millionen* voll genutzte Hübe. Und das bei maximal zulässigem Fülldruck und maximal zulässiger Betriebstemperatur. Dies gilt auch in Verbindung mit sämtlichen spezifizierten Befestigungsarten.

*Berechnungswert für Dauerfestigkeit

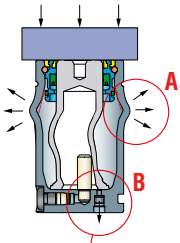



## I APPROVAZIONE PED

Le molle a gas OMCR sono state sviluppate, prodotte e testate per 2 milioni* di corse secondo DGRL2014/68/UE. Le molle raggiungono questo rendimento massimo ai limiti assoluti accettabili in termini di pressione di riempimento e temperatura operativa – anche quando sono abbinate con alcuni dei diversi tipi di montaggio disponibili.

*Valore stimato per la resistenza






## GB OVERSTROKE PROTECTION

In the event of an overstroke and depending on the spring type, the patented protection system will ensure that either the cylinder wall of the gas spring is deformed in a predefinited manner (A) or the piston rod destroys a rupture bolt in the floor of the cylinder (B), thereby allowing the gas to escape into the atmosphere.

## D ÜBERHUB-SCHUTZ

Wird ein Überhub ausgeführt, gewährleisten je nach Federtype die patentierten Schutzsysteme, dass sich entweder die Zylinderwand der Gasdruckfeder definiert verformt (A) oder die Kolbenstange eine Berstschraube im Zylinderboden zerstört (B) und in beiden Fällen das Gas nach außen entweicht.

## I PROTEZIONE EXTRACORSA

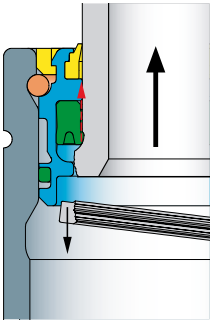
In caso di sovracorsa a seconda del tipo di molla, il sistema di protezione brevettato assicurerà che né la parete del cilindro della molla a gas si deformi in una maniera predefinita (A), né l'asta del pistone distrugga il perno nella base del cilindro (B), così permettendo al gas di rilasciarsi nell'atmosfera.




## (GB) RETURN STROKE PROTECTION

If, for any reason, tool component should get stuck and the piston rod should be freely released from its compressed position, conventional gas spring may pose saferty risk ad the piston may not be retined in the gas spring.

OMCR Gas Spring have special guides and a patented safety stop in the piston rods ensure your safety. If the speed is too high during the return stroke, the collar on the piston rod will automatically break. The integrated safety stop then destroys the seal, which allows the gas to escape into the atmosphere and the gas spring become depressurised.



## (D) RÜCKHUB-SCHUTZ

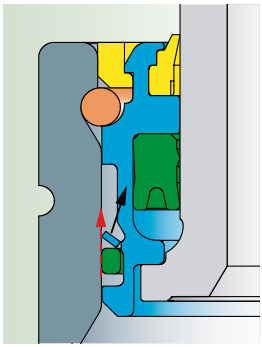
Wenn sich Werkzeugkomponenten verklemmen und die gedrückte Kolbenstange anschließend plötzlich entlastet wird, besteht bei herkömmlichen Gasdruckfedern die Gefahr, dass die Kolbenstange nicht in der Gasdruckfeder verbleibt.Hier sorgen spezielle Führungen und ein patentierter Sicherheitsstopp in den Kolbenstangen für Sicherheit. Ist die Geschwindigkeit beim Rückhub zu hoch, bricht automatisch der Bund der Kolbenstange. Der integrierte Sicherheitsstopp zerstört die Dichtung, das Gas entweicht nach außen und die Gasdruckfeder wird drucklos



## (I) PROTEZIONE CORSA DI RITORNO INCONTROLLATA

Se, per un qualsiasi motivo, i componenti dello stampo dovessero bloccarsi rilasciando il pistone in maniera incontrollata si potrebbe presentare un rischio per la sicurezza. Le molle a gas OMCR hanno un sistema brevettato di guide e fermi che assicurano la sicurezza. Se la velocita di ritorno è troppo alta, la flangia di sicurezza sulla guarnizione viene automaticamente distrutta. In questo modo il gas fuoriesce nell'atmosfera e la molla a gas perde la pressione.





## GB OVERPRESSURE PROTECTION

Conventional gas springs can burst if the internal pressure rises above a maximum permitted value. If this happens, parts flying around can become dangerous projectiles.

With OMCR Gas Spring if the pressure rises above the maximum permitted value, the safety collar on the sealing set is automatically destroyed. The gas then escapes into the atmosphere and the gas spring is depressurised.

## GB OVERPRESS ÜBERDRUCK-SCHUTZ

Steigt der Innendruck über den zulässigen Wert, können herkömmliche Gasdruckfedern bersten und stellen ein Sicherheitsrisiko für Bediener und Werkzeug dar.Steigt der Druck über den zulässigen Wert, wird der Sicherheitsbund am Dichtungssatz oder an einer Berstschraube automatisch zerstört. Das Gas entweicht nach außen und die Gasdruckfeder wird drucklos.

## GB PROTEZIONE SOVRAPRESSIONE

Le molle a gas convenzionali possono esplodere se la pressione interna supera il massimo valore concesso. Se questo accade, parti che voleranno per aria possono diventare proiettili pericolosi.Le molle a gas OMCR sono diverse: se la pressione supera il massimo valore concesso, la flangia di sicurezza sulla guarnizione viene automaticamente distrutta. In questo modo il gas fuoriesce nell'atmosfera e la molla a gas perde la pressione.

## GB WARNING

**After a protection function is triggered, the spring cannot be repaired and can no longer be used.** It must be replaced completely.

Please refer to the relevant data sheets to check the current safety equipment which is provided with the gas spring you are interested in, or contact OMCR directly

for more information. For the safe handling of gas springs and other nitrogen products, the safety regulations must be observed.

Maintenance work on the product may only be done, if nitrogen gas is no longer contained in the gas spring.

## D WARNUNG

**Nach Aktivierung einer Schutzfunktion ist die Feder irreparabel und kann nicht mehr verwendet werden.** Sie muss vollständig ersetzt werden. Die mit den Gasdruckfedern gelieferte Sicherheitsausrüstung entnehmen Sie bitte dem Produktblatt oder wenden Sie sich für weitere Informationen direkt an OMCR. Für den sicheren Umgang mit Gasdruckfedern und anderem Zubehör sind die Sicherheitsvorschriften unbedingt zu beachten. Wartungsarbeiten am Produkt dürfen nur durchgeführt werden, wenn kein Stickstoff mehr in der Gasfeder vorhanden ist.

## I ATTENZIONE

**Dopo l'attivazione di una funzione di protezione la molla è irreparabile e non può più essere utilizzata.** Deve essere interamente sostituita.Fare riferimento alla scheda di prodotto per controllare l'equipaggiamento di sicurezza in dotazione con le molle a gas o contatta direttamente OMCR per ulteriori informazioni. Per una gestione sicura delle mollea gas e degli altri accessori, èindispensabile osservare lenorme di sicurezza.Si possono eseguire interventi di manutenzione sul prodotto solo se l'azoto non è più presente nella molla a gas.

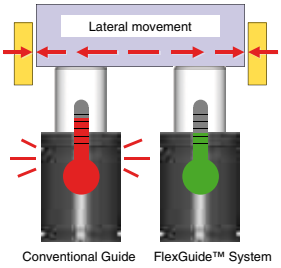



## (GB) THE FLEX GUIDE ™ SYSTEM

The Flex Guide™ Sytem is a flexible guide in the gas spring which absorbs lateral movements of the piston rod. It minimises friction and lowers the operating temperature.

Flex Guide™ System benefits :

- Extended service life
- Increased stroke frequency, i.e. more strokes per minute




## (D) THE FLEX GUIDE ™ SYSTEM

Das Flex Guide™ System, eine flexible Führung in der Gasdruckfeder, nimmt seitliche Kolbenstangenbewegungen auf. Es minimiert die Reibung und senkt die Betriebstemperatur.

Flex Guide™ System benefits :

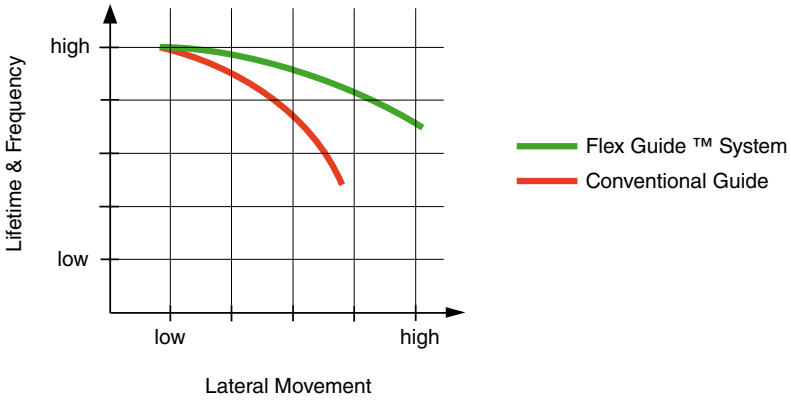
- Längere Lebensdauer
- Höhere Hubfrequenz, d. h. mehr Hübe pro Minute

## (I) IL FLEX GUIDE ™ SYSTEM

Il Flex Guide™ System consiste in speciali guide interne al cilindro che assorbono i movimenti laterali,riducendo attito e temperatura di lavoro.

Vantaggi Flex Guide™ System:

- Incremento durata cilindro
- incremento frequenza lavoro; aumento corse/minuto



| G01.10 | G01.11 | G01.12 | G01.13 | G01.14 |
|---|---|---|---|---|
|  |  |  |  |  |
| **MICRO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **MICRO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **MICRO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **MICRO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **MICRO** GAS SPRING GASDRUCKFEDER MOLLA A GAS |
| 1190 | 1192 | 1194 | 1196 | 1198 |

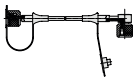
| G01.20.00170 | G01.20.00320 | G01.20.00350 | G01.20.00500 | G01.20.00750 |
|---|---|---|---|---|
|  |  |  |  |  |
| **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS |
| 1200 | 1202 | 1204 | 1206 | 1208 |

| G01.20.01000 | G01.20.01500 | G01.20.02400 | G01.20.04200 | G01.20.06600 |
|---|---|---|---|---|
|  |  |  |  |  |
| **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS |
| 1210 | 1212 | 1214 | 1216 | 1218 |

| G01.20.09500 | G01.20.20000 | G01.30.00250 | G01.30.00500 | G01.30.00750 |
|---|---|---|---|---|
|  |  |  |  |  |
| **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **POWERLINE** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS |
| 1220 | 1222 | 1224 | 1226 | 1228 |

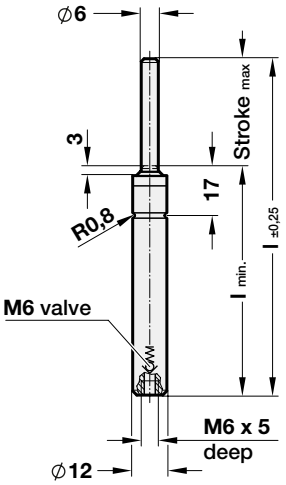
| G01.30.01500 | G01.30.03000 | G01.30.05000 | G01.30.07500 | G01.30.10000 |
|---|---|---|---|---|
|  |  |  |  |  |
| **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS | **ISO** GAS SPRING GASDRUCKFEDER MOLLA A GAS |
| 1230 | 1232 | 1234 | 1236 | 1238 |

| G02.10 | G02.15 | G02.20 | G03.11 | G03.12 |
|---|---|---|---|---|
|  |  |  |  |  |
| UPPER FLANGE OBERER FLANSCH FLANGIA SUPERIORE | MIDDLE FLANGE ZENTRALER FLANSCH FLANGIA CENTRALE | LOWERFLANGE UBERER FLANSCH FLANGIA INFERIORE | ACCESSORIES ZUBEHÖR ACCESSORI | GAUGING HOSE 0° MESSCHLAUCH BEIDSEITIG 0° TUBO CONNESSIONE 0° |
| 1240 | 1242 | 1244 | 1251 | 1256 |

| G03.13 | G03.14 | G03.50 |
|---|---|---|
|  |  |  |
| GAUGING HOSE 0°–90° MESSCHLAUCH BEIDSEITIG 0°–90° TUBO CONNESSIONE 0°–90° | GAUGING HOSE 90° MESSCHLAUCH BEIDSEITIG 90° TUBO CONNESSIONE 90° | CONTROL PANEL KONTROLLARMATUR PANNELLO DI CONTROLLO |
| 1256 | 1257 | 1258 |

# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

STOCK 3D WEB






**Notes**

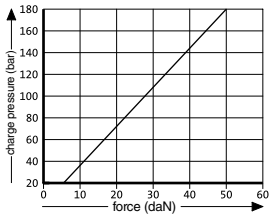
APPROVED PED 2014/68/EU

V>max

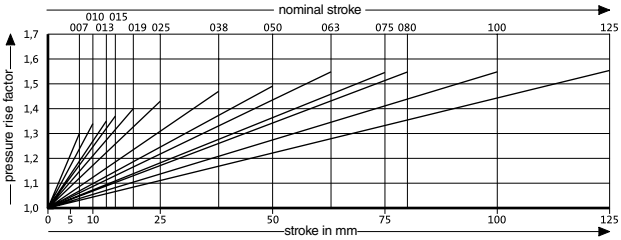
P>Imax

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

| ORDER EXAMPLE | Art. | Init.Spring Force (daN) = 13 | Stroke = 7 |
|---|---|---|---|
| | G01.10 | 00013 | 007 |

* UNFILLED

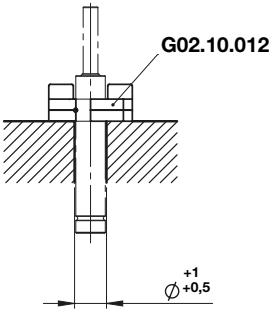
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.10.00000.007 | 00000* | 7 | 56 | 49 |
| G01.10.00013.007 | 00013 | 7 | 56 | 49 |
| G01.10.00025.007 | 00025 | 7 | 56 | 49 |
| G01.10.00038.007 | 00038 | 7 | 56 | 49 |
| G01.10.00050.007 | 00050 | 7 | 56 | 49 |
| G01.10.00000.010 | 00000* | 10 | 62 | 52 |
| G01.10.00013.010 | 00013 | 10 | 62 | 52 |
| G01.10.00025.010 | 00025 | 10 | 62 | 52 |
| G01.10.00038.010 | 00038 | 10 | 62 | 52 |
| G01.10.00050.010 | 00050 | 10 | 62 | 52 |
| G01.10.00000.013 | 00000* | 12,7 | 67,4 | 54,7 |
| G01.10.00013.013 | 00013 | 12,7 | 67,4 | 54,7 |
| G01.10.00025.013 | 00025 | 12,7 | 67,4 | 54,7 |
| G01.10.00038.013 | 00038 | 12,7 | 67,4 | 54,7 |
| G01.10.00050.013 | 00050 | 12,7 | 67,4 | 54,7 |
| G01.10.00000.015 | 00000* | 15 | 72 | 57 |
| G01.10.00013.015 | 00013 | 15 | 72 | 57 |
| G01.10.00025.015 | 00025 | 15 | 72 | 57 |
| G01.10.00038.015 | 00038 | 15 | 72 | 57 |
| G01.10.00050.015 | 00050 | 15 | 72 | 57 |
| G01.10.00000.019 | 00000* | 19 | 80 | 61 |
| G01.10.00013.019 | 00013 | 19 | 80 | 61 |
| G01.10.00025.019 | 00025 | 19 | 80 | 61 |
| G01.10.00038.019 | 00038 | 19 | 80 | 61 |
| G01.10.00050.019 | 00050 | 19 | 80 | 61 |
| G01.10.00000.025 | 00000* | 25 | 92 | 67 |
| G01.10.00013.025 | 00013 | 25 | 92 | 67 |
| G01.10.00025.025 | 00025 | 25 | 92 | 67 |
| G01.10.00038.025 | 00038 | 25 | 92 | 67 |
| G01.10.00050.025 | 00050 | 25 | 92 | 67 |
| G01.10.00000.038 | 00000* | 38 | 118 | 80 |
| G01.10.00013.038 | 00013 | 38 | 118 | 80 |
| G01.10.00025.038 | 00025 | 38 | 118 | 80 |
| G01.10.00038.038 | 00038 | 38 | 118 | 80 |
| G01.10.00050.038 | 00050 | 38 | 118 | 80 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.10.00000.050 | 00000* | 50 | 142 | 92 |
| G01.10.00013.050 | 00013 | 50 | 142 | 92 |
| G01.10.00025.050 | 00025 | 50 | 142 | 92 |
| G01.10.00038.050 | 00038 | 50 | 142 | 92 |
| G01.10.00050.050 | 00050 | 50 | 142 | 92 |
| G01.10.00000.063 | 00000* | 63,5 | 172 | 108,5 |
| G01.10.00013.063 | 00013 | 63,5 | 172 | 108,5 |
| G01.10.00025.063 | 00025 | 63,5 | 172 | 108,5 |
| G01.10.00038.063 | 00038 | 63,5 | 172 | 108,5 |
| G01.10.00050.063 | 00050 | 63,5 | 172 | 108,5 |
| G01.10.00000.075 | 00000* | 75 | 195 | 120 |
| G01.10.00013.075 | 00013 | 75 | 195 | 120 |
| G01.10.00025.075 | 00025 | 75 | 195 | 120 |
| G01.10.00038.075 | 00038 | 75 | 195 | 120 |
| G01.10.00050.075 | 00050 | 75 | 195 | 120 |
| G01.10.00000.080 | 00000* | 80 | 205 | 125 |
| G01.10.00013.080 | 00013 | 80 | 205 | 125 |
| G01.10.00025.080 | 00025 | 80 | 205 | 125 |
| G01.10.00038.080 | 00038 | 80 | 205 | 125 |
| G01.10.00050.080 | 00050 | 80 | 205 | 125 |
| G01.10.00000.100 | 00000* | 100 | 245 | 145 |
| G01.10.00013.100 | 00013 | 100 | 245 | 145 |
| G01.10.00025.100 | 00025 | 100 | 245 | 145 |
| G01.10.00038.100 | 00038 | 100 | 245 | 145 |
| G01.10.00050.100 | 00050 | 100 | 245 | 145 |
| G01.10.00000.125 | 00000* | 125 | 295 | 170 |
| G01.10.00013.125 | 00013 | 125 | 295 | 170 |
| G01.10.00025.125 | 00025 | 125 | 295 | 170 |
| G01.10.00038.125 | 00038 | 125 | 295 | 170 |
| G01.10.00050.125 | 00050 | 125 | 295 | 170 |

SPRING FORCE MARKING:

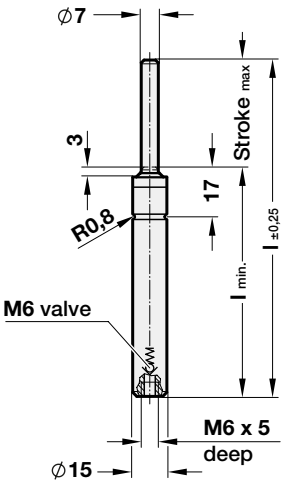
| Initial spring force [daN] | Pressure [bar] | Colour |
|---|---|---|
| .00000. | 00 | black |
| .00013. | 45 | green |
| .00025. | 90 | blue |
| .00038. | 135 | red |
| .00050. | 180 | yellow |

## MOUNTING EXAMPLES :



# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

STOCK 3D WEB






**Notes**

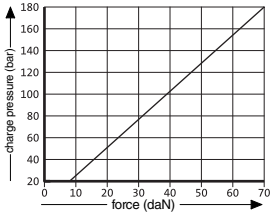
APPROVED PED 2014/68/EU

V>max

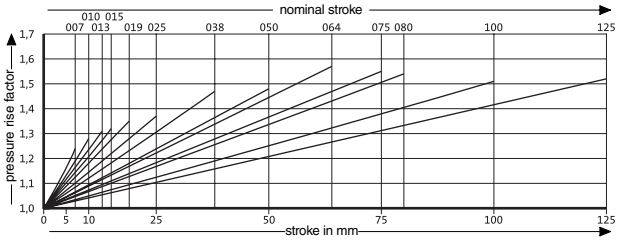
P>max

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

| ORDER EXAMPLE | Art. | Init.Spring Force (daN) = 18 | Stroke = 7 |
|---|---|---|---|
| | G01.11 | 00018 | 007 |

* UNFILLED

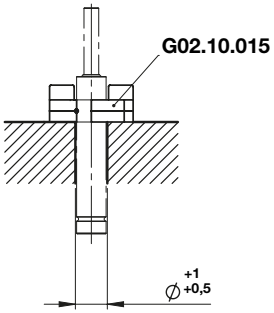
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.11.00000.007 | 00000* | 7 | 56 | 49 |
| G01.11.00018.007 | 00018 | 7 | 56 | 49 |
| G01.11.00035.007 | 00035 | 7 | 56 | 49 |
| G01.11.00050.007 | 00050 | 7 | 56 | 49 |
| G01.11.00070.007 | 00070 | 7 | 56 | 49 |
| G01.11.00000.010 | 00000* | 10 | 62 | 52 |
| G01.11.00018.010 | 00018 | 10 | 62 | 52 |
| G01.11.00035.010 | 00035 | 10 | 62 | 52 |
| G01.11.00050.010 | 00050 | 10 | 62 | 52 |
| G01.11.00070.010 | 00070 | 10 | 62 | 52 |
| G01.11.00000.013 | 00000* | 12,7 | 67,4 | 54,7 |
| G01.11.00018.013 | 00018 | 12,7 | 67,4 | 54,7 |
| G01.11.00035.013 | 00035 | 12,7 | 67,4 | 54,7 |
| G01.11.00050.013 | 00050 | 12,7 | 67,4 | 54,7 |
| G01.11.00070.013 | 00070 | 12,7 | 67,4 | 54,7 |
| G01.11.00000.015 | 00000* | 15 | 72 | 57 |
| G01.11.00018.015 | 00018 | 15 | 72 | 57 |
| G01.11.00035.015 | 00035 | 15 | 72 | 57 |
| G01.11.00050.015 | 00050 | 15 | 72 | 57 |
| G01.11.00070.015 | 00070 | 15 | 72 | 57 |
| G01.11.00000.019 | 00000* | 19 | 80 | 61 |
| G01.11.00018.019 | 00018 | 19 | 80 | 61 |
| G01.11.00035.019 | 00035 | 19 | 80 | 61 |
| G01.11.00050.019 | 00050 | 19 | 80 | 61 |
| G01.11.00070.019 | 00070 | 19 | 80 | 61 |
| G01.11.00000.025 | 00000* | 25 | 92 | 67 |
| G01.11.00018.025 | 00018 | 25 | 92 | 67 |
| G01.11.00035.025 | 00035 | 25 | 92 | 67 |
| G01.11.00050.025 | 00050 | 25 | 92 | 67 |
| G01.11.00070.025 | 00070 | 25 | 92 | 67 |
| G01.11.00000.038 | 00000* | 38,1 | 118,2 | 80,1 |
| G01.11.00018.038 | 00018 | 38,1 | 118,2 | 80,1 |
| G01.11.00035.038 | 00035 | 38,1 | 118,2 | 80,1 |
| G01.11.00050.038 | 00050 | 38,1 | 118,2 | 80,1 |
| G01.11.00070.038 | 00070 | 38,1 | 118,2 | 80,1 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.11.00000.050 | 00000* | 50 | 142 | 92 |
| G01.11.00018.050 | 00018 | 50 | 142 | 92 |
| G01.11.00035.050 | 00035 | 50 | 142 | 92 |
| G01.11.00050.050 | 00050 | 50 | 142 | 92 |
| G01.11.00070.050 | 00070 | 50 | 142 | 92 |
| G01.11.00000.063 | 00000* | 63,5 | 172 | 108,5 |
| G01.11.00018.063 | 00018 | 63,5 | 172 | 108,5 |
| G01.11.00035.063 | 00035 | 63,5 | 172 | 108,5 |
| G01.11.00050.063 | 00050 | 63,5 | 172 | 108,5 |
| G01.11.00070.063 | 00070 | 63,5 | 172 | 108,5 |
| G01.11.00000.075 | 00000* | 75 | 195 | 120 |
| G01.11.00018.075 | 00018 | 75 | 195 | 120 |
| G01.11.00035.075 | 00035 | 75 | 195 | 120 |
| G01.11.00050.075 | 00050 | 75 | 195 | 120 |
| G01.11.00070.075 | 00070 | 75 | 195 | 120 |
| G01.11.00000.080 | 00000* | 80 | 205 | 125 |
| G01.11.00018.080 | 00018 | 80 | 205 | 125 |
| G01.11.00035.080 | 00035 | 80 | 205 | 125 |
| G01.11.00050.080 | 00050 | 80 | 205 | 125 |
| G01.11.00070.080 | 00070 | 80 | 205 | 125 |
| G01.11.00000.100 | 00000* | 100 | 245 | 145 |
| G01.11.00018.100 | 00018 | 100 | 245 | 145 |
| G01.11.00035.100 | 00035 | 100 | 245 | 145 |
| G01.11.00050.100 | 00050 | 100 | 245 | 145 |
| G01.11.00070.100 | 00070 | 100 | 245 | 145 |
| G01.11.00000.125 | 00000* | 125 | 295 | 170 |
| G01.11.00018.125 | 00018 | 125 | 295 | 170 |
| G01.11.00035.125 | 00035 | 125 | 295 | 170 |
| G01.11.00050.125 | 00050 | 125 | 295 | 170 |
| G01.11.00070.125 | 00070 | 125 | 295 | 170 |

SPRING FORCE MARKING:

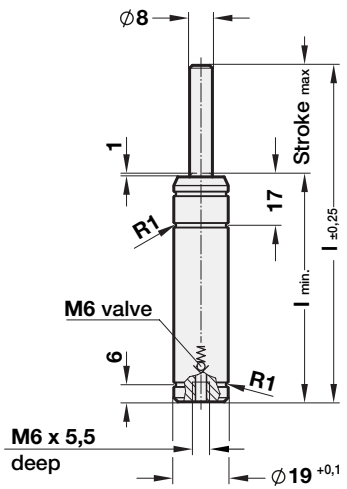
| Initial spring force [daN] | Pressure [bar] | Colour |
|---|---|---|
| .00000. | 00 | black |
| .00018. | 45 | green |
| .00035. | 90 | blue |
| .00050. | 135 | red |
| .00070. | 180 | yellow |

## MOUNTING EXAMPLES :



# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

STOCK 3D WEB





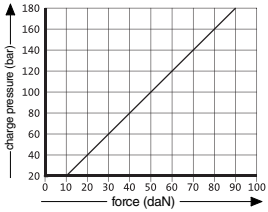

**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

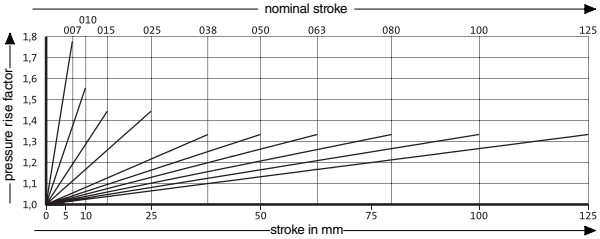
S>max | V>max | P>max

⚠ Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

| ORDER EXAMPLE | Art. | Init.Spring Force (daN) = 30 | Stroke = 7 |
|---|---|---|---|
| | G01.12 | 00030 | 007 |

* UNFILLED

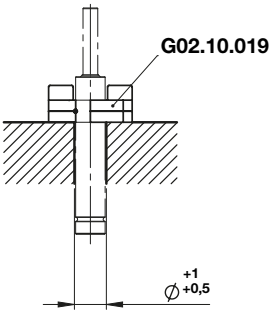
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.12.00000.007 | 00000* | 7 | 56 | 49 |
| G01.12.00030.007 | 00030 | 7 | 56 | 49 |
| G01.12.00050.007 | 00050 | 7 | 56 | 49 |
| G01.12.00070.007 | 00070 | 7 | 56 | 49 |
| G01.12.00090.007 | 00090 | 7 | 56 | 49 |
| G01.12.00000.010 | 00000* | 10 | 62 | 52 |
| G01.12.00030.010 | 00030 | 10 | 62 | 52 |
| G01.12.00050.010 | 00050 | 10 | 62 | 52 |
| G01.12.00070.010 | 00070 | 10 | 62 | 52 |
| G01.12.00090.010 | 00090 | 10 | 62 | 52 |
| G01.12.00000.015 | 00000* | 15 | 72 | 57 |
| G01.12.00030.015 | 00030 | 15 | 72 | 57 |
| G01.12.00050.015 | 00050 | 15 | 72 | 57 |
| G01.12.00070.015 | 00070 | 15 | 72 | 57 |
| G01.12.00090.015 | 00090 | 15 | 72 | 57 |
| G01.12.00000.025 | 00000* | 25 | 92 | 67 |
| G01.12.00030.025 | 00030 | 25 | 92 | 67 |
| G01.12.00050.025 | 00050 | 25 | 92 | 67 |
| G01.12.00070.025 | 00070 | 25 | 92 | 67 |
| G01.12.00090.025 | 00090 | 25 | 92 | 67 |
| G01.12.00000.038 | 00000* | 38,1 | 118,2 | 80,1 |
| G01.12.00030.038 | 00030 | 38,1 | 118,2 | 80,1 |
| G01.12.00050.038 | 00050 | 38,1 | 118,2 | 80,1 |
| G01.12.00070.038 | 00070 | 38,1 | 118,2 | 80,1 |
| G01.12.00090.038 | 00090 | 38,1 | 118,2 | 80,1 |

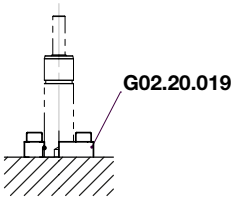
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.12.00000.050 | 00000* | 50 | 142 | 92 |
| G01.12.00030.050 | 00030 | 50 | 142 | 92 |
| G01.12.00050.050 | 00050 | 50 | 142 | 92 |
| G01.12.00070.050 | 00070 | 50 | 142 | 92 |
| G01.12.00090.050 | 00090 | 50 | 142 | 92 |
| G01.12.00000.063 | 00000* | 63,5 | 172 | 108,5 |
| G01.12.00030.063 | 00030 | 63,5 | 172 | 108,5 |
| G01.12.00050.063 | 00050 | 63,5 | 172 | 108,5 |
| G01.12.00070.063 | 00070 | 63,5 | 172 | 108,5 |
| G01.12.00090.063 | 00090 | 63,5 | 172 | 108,5 |
| G01.12.00000.080 | 00000* | 80 | 205 | 125 |
| G01.12.00030.080 | 00030 | 80 | 205 | 125 |
| G01.12.00050.080 | 00050 | 80 | 205 | 125 |
| G01.12.00070.080 | 00070 | 80 | 205 | 125 |
| G01.12.00090.080 | 00090 | 80 | 205 | 125 |
| G01.12.00000.100 | 00000* | 100 | 245 | 145 |
| G01.12.00030.100 | 00030 | 100 | 245 | 145 |
| G01.12.00050.100 | 00050 | 100 | 245 | 145 |
| G01.12.00070.100 | 00070 | 100 | 245 | 145 |
| G01.12.00090.100 | 00090 | 100 | 245 | 145 |
| G01.12.00000.125 | 00000* | 125 | 295 | 170 |
| G01.12.00030.125 | 00030 | 125 | 295 | 170 |
| G01.12.00050.125 | 00050 | 125 | 295 | 170 |
| G01.12.00070.125 | 00070 | 125 | 295 | 170 |
| G01.12.00090.125 | 00090 | 125 | 295 | 170 |

SPRING FORCE MARKING:

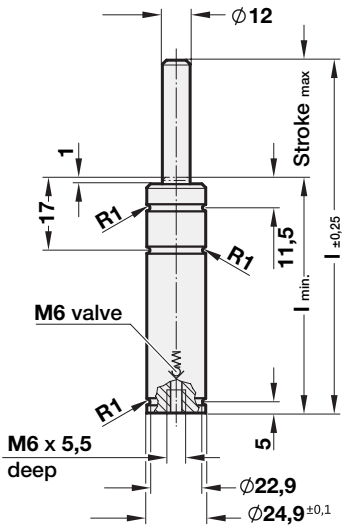
| Initial spring force [daN] | Pressure [bar] | Colour |
|---|---|---|
| .00000. | 00 | black |
| .00030. | 60 | green |
| .00050. | 100 | blue |
| .00070. | 140 | red |
| .00090. | 180 | yellow |

## MOUNTING EXAMPLES :



# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA




STOCK 3D WEB



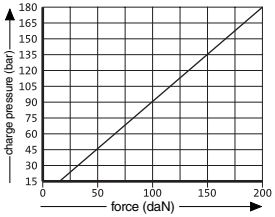
**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

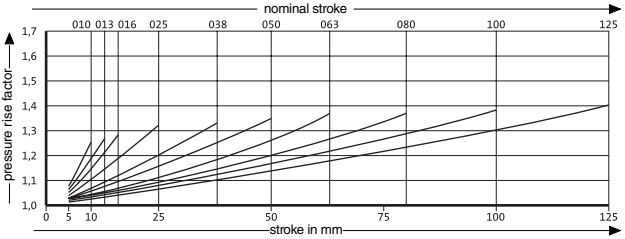
S>max | V>max | P>max

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

| ORDER EXAMPLE | Art. | Init.Spring Force (daN) = 50 | Stroke = 10 |
|---|---|---|---|
| | G01.13 | 00050 | 010 |

* UNFILLED

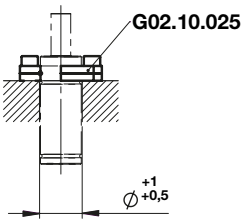
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.13.00000.010 | 00000* | 10 | 62 | 52 |
| G01.13.00050.010 | 00050 | 10 | 62 | 52 |
| G01.13.00100.010 | 00100 | 10 | 62 | 52 |
| G01.13.00150.010 | 00150 | 10 | 62 | 52 |
| G01.13.00200.010 | 00200 | 10 | 62 | 52 |
| G01.13.00000.013 | 00000* | 12,7 | 67,4 | 54,7 |
| G01.13.00050.013 | 00050 | 12,7 | 67,4 | 54,7 |
| G01.13.00100.013 | 00100 | 12,7 | 67,4 | 54,7 |
| G01.13.00150.013 | 00150 | 12,7 | 67,4 | 54,7 |
| G01.13.00200.013 | 00200 | 12,7 | 67,4 | 54,7 |
| G01.13.00000.015 | 00000* | 15 | 72 | 57 |
| G01.13.00050.015 | 00050 | 15 | 72 | 57 |
| G01.13.00100.015 | 00100 | 15 | 72 | 57 |
| G01.13.00150.015 | 00150 | 15 | 72 | 57 |
| G01.13.00200.015 | 00200 | 15 | 72 | 57 |
| G01.13.00000.016 | 00000* | 16 | 74 | 58 |
| G01.13.00050.016 | 00050 | 16 | 74 | 58 |
| G01.13.00100.016 | 00100 | 16 | 74 | 58 |
| G01.13.00150.016 | 00150 | 16 | 74 | 58 |
| G01.13.00200.016 | 00200 | 16 | 74 | 58 |
| G01.13.00000.025 | 00000* | 25 | 92 | 67 |
| G01.13.00050.025 | 00050 | 25 | 92 | 67 |
| G01.13.00100.025 | 00100 | 25 | 92 | 67 |
| G01.13.00150.025 | 00150 | 25 | 92 | 67 |
| G01.13.00200.025 | 00200 | 25 | 92 | 67 |
| G01.13.00000.038 | 00000* | 38,1 | 118,2 | 80,1 |
| G01.13.00050.038 | 00050 | 38,1 | 118,2 | 80,1 |
| G01.13.00100.038 | 00100 | 38,1 | 118,2 | 80,1 |
| G01.13.00150.038 | 00150 | 38,1 | 118,2 | 80,1 |
| G01.13.00200.038 | 00200 | 38,1 | 118,2 | 80,1 |

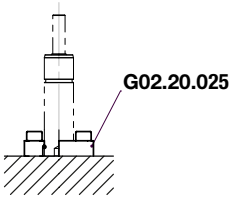
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.13.00000.050 | 00000* | 50 | 142 | 92 |
| G01.13.00050.050 | 00050 | 50 | 142 | 92 |
| G01.13.00100.050 | 00100 | 50 | 142 | 92 |
| G01.13.00150.050 | 00150 | 50 | 142 | 92 |
| G01.13.00200.050 | 00200 | 50 | 142 | 92 |
| G01.13.00000.063 | 00000* | 63,5 | 172 | 108,5 |
| G01.13.00050.063 | 00050 | 63,5 | 172 | 108,5 |
| G01.13.00100.063 | 00100 | 63,5 | 172 | 108,5 |
| G01.13.00150.063 | 00150 | 63,5 | 172 | 108,5 |
| G01.13.00200.063 | 00200 | 63,5 | 172 | 108,5 |
| G01.13.00000.080 | 00000* | 80 | 205 | 125 |
| G01.13.00050.080 | 00050 | 80 | 205 | 125 |
| G01.13.00100.080 | 00100 | 80 | 205 | 125 |
| G01.13.00150.080 | 00150 | 80 | 205 | 125 |
| G01.13.00200.080 | 00200 | 80 | 205 | 125 |
| G01.13.00000.100 | 00000* | 100 | 245 | 145 |
| G01.13.00050.100 | 00050 | 100 | 245 | 145 |
| G01.13.00100.100 | 00100 | 100 | 245 | 145 |
| G01.13.00150.100 | 00150 | 100 | 245 | 145 |
| G01.13.00200.100 | 00200 | 100 | 245 | 145 |
| G01.13.00000.125 | 00000* | 125 | 295 | 170 |
| G01.13.00050.125 | 00050 | 125 | 295 | 170 |
| G01.13.00100.125 | 00100 | 125 | 295 | 170 |
| G01.13.00150.125 | 00150 | 125 | 295 | 170 |
| G01.13.00200.125 | 00200 | 125 | 295 | 170 |

SPRING FORCE MARKING:

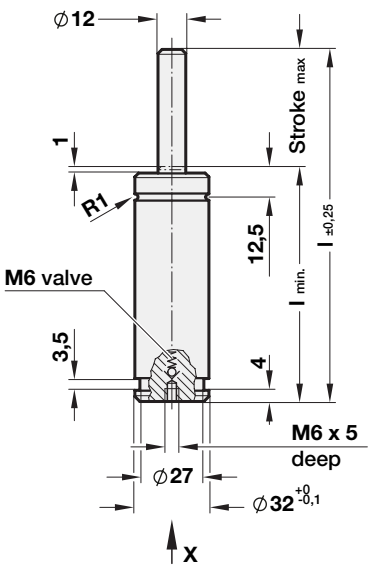
| Initial spring force [daN] | Pressure [bar] | Colour |
|---|---|---|
| .00000. | 00 | black |
| .00050. | 45 | green |
| .00100. | 90 | blue |
| .00150. | 135 | red |
| .00200. | 180 | yellow |

## MOUNTING EXAMPLES :



# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA




STOCK 3D WEB



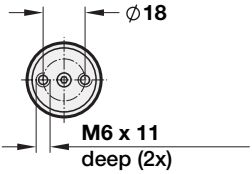
**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

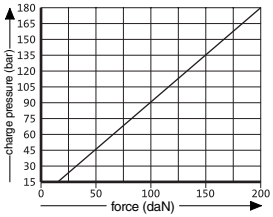
S>max | V>max | P>max

Max. piston speed: 1.6 m/s

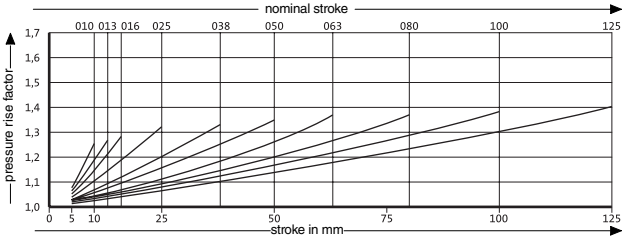
View X - Gas spring




Initial spring force versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - SMALL DIMENSION AND LOW FORCE
# GASDRUCKFEDER, KLEINE ABMESSUNG, NIEDRIGE FEDERKRAFT
# MOLLA A GAS DI PICCOLA DIMENSIONE E CON BASSA FORZA DELLA MOLLA

| ORDER EXAMPLE | Art. | Init.Spring Force (daN) = 50 | Stroke = 10 |
|---|---|---|---|
| | G01.14 | 00050 | 010 |

* UNFILLED

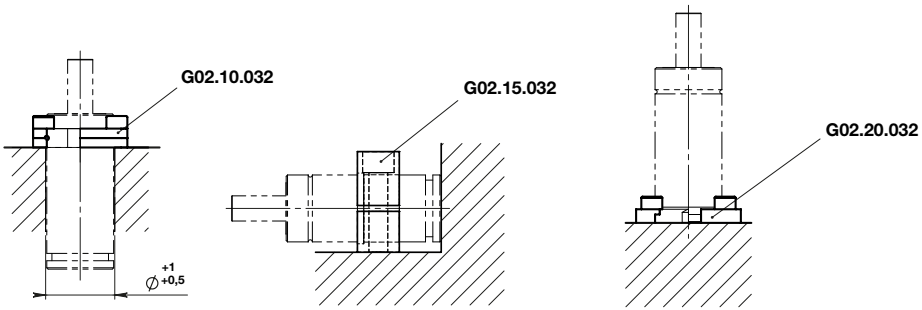
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.14.00000.010 | 00000* | 10 | 70 | 60 |
| G01.14.00050.010 | 00050 | 10 | 70 | 60 |
| G01.14.00100.010 | 00100 | 10 | 70 | 60 |
| G01.14.00150.010 | 00150 | 10 | 70 | 60 |
| G01.14.00200.010 | 00200 | 10 | 70 | 60 |
| G01.14.00000.013 | 00000* | 12,7 | 75,4 | 62,7 |
| G01.14.00050.013 | 00050 | 12,7 | 75,4 | 62,7 |
| G01.14.00100.013 | 00100 | 12,7 | 75,4 | 62,7 |
| G01.14.00150.013 | 00150 | 12,7 | 75,4 | 62,7 |
| G01.14.00200.013 | 00200 | 12,7 | 75,4 | 62,7 |
| G01.14.00000.016 | 00000* | 16 | 82 | 66 |
| G01.14.00050.016 | 00050 | 16 | 82 | 66 |
| G01.14.00100.016 | 00100 | 16 | 82 | 66 |
| G01.14.00150.016 | 00150 | 16 | 82 | 66 |
| G01.14.00200.016 | 00200 | 16 | 82 | 66 |
| G01.14.00000.025 | 00000* | 25 | 100 | 75 |
| G01.14.00050.025 | 00050 | 25 | 100 | 75 |
| G01.14.00100.025 | 00100 | 25 | 100 | 75 |
| G01.14.00150.025 | 00150 | 25 | 100 | 75 |
| G01.14.00200.025 | 00200 | 25 | 100 | 75 |
| G01.14.00000.038 | 00000* | 38,1 | 126,2 | 88,1 |
| G01.14.00050.038 | 00050 | 38,1 | 126,2 | 88,1 |
| G01.14.00100.038 | 00100 | 38,1 | 126,2 | 88,1 |
| G01.14.00150.038 | 00150 | 38,1 | 126,2 | 88,1 |
| G01.14.00200.038 | 00200 | 38,1 | 126,2 | 88,1 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.14.00000.050 | 00000* | 50 | 150 | 100 |
| G01.14.00050.050 | 00050 | 50 | 150 | 100 |
| G01.14.00100.050 | 00100 | 50 | 150 | 100 |
| G01.14.00150.050 | 00150 | 50 | 150 | 100 |
| G01.14.00200.050 | 00200 | 50 | 150 | 100 |
| G01.14.00000.063 | 00000* | 63,5 | 177 | 113,5 |
| G01.14.00050.063 | 00050 | 63,5 | 177 | 113,5 |
| G01.14.00100.063 | 00100 | 63,5 | 177 | 113,5 |
| G01.14.00150.063 | 00150 | 63,5 | 177 | 113,5 |
| G01.14.00200.063 | 00200 | 63,5 | 177 | 113,5 |
| G01.14.00000.080 | 00000* | 80 | 210 | 130 |
| G01.14.00050.080 | 00050 | 80 | 210 | 130 |
| G01.14.00100.080 | 00100 | 80 | 210 | 130 |
| G01.14.00150.080 | 00150 | 80 | 210 | 130 |
| G01.14.00200.080 | 00200 | 80 | 210 | 130 |
| G01.14.00000.100 | 00000* | 100 | 250 | 150 |
| G01.14.00050.100 | 00050 | 100 | 250 | 150 |
| G01.14.00100.100 | 00100 | 100 | 250 | 150 |
| G01.14.00150.100 | 00150 | 100 | 250 | 150 |
| G01.14.00200.100 | 00200 | 100 | 250 | 150 |
| G01.14.00000.125 | 00000* | 125 | 300 | 175 |
| G01.14.00050.125 | 00050 | 125 | 300 | 175 |
| G01.14.00100.125 | 00100 | 125 | 300 | 175 |
| G01.14.00150.125 | 00150 | 125 | 300 | 175 |
| G01.14.00200.125 | 00200 | 125 | 300 | 175 |

SPRING FORCE MARKING:

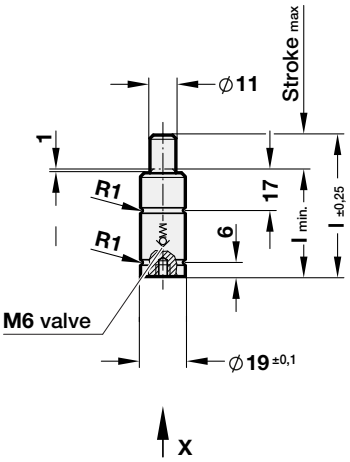
| Initial spring force [daN] | Pressure [bar] | Colour |
|---|---|---|
| .00000. | 00 | black |
| .00050. | 45 | green |
| .00100. | 90 | blue |
| .00150. | 135 | red |
| .00200. | 180 | yellow |

## MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB





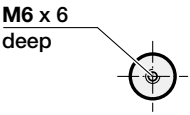

**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

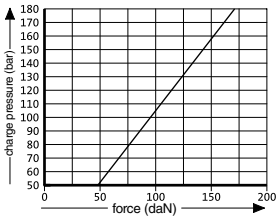
S>max | V>max | P>max

Max. piston speed: 1.6 m/s

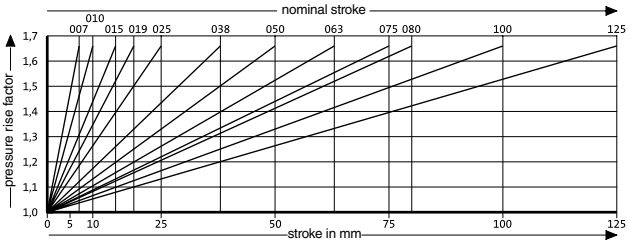
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



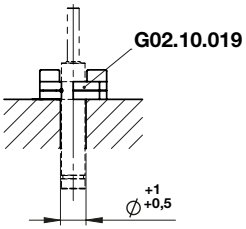

Pressure rise factor accounts for displacement but not external influences!

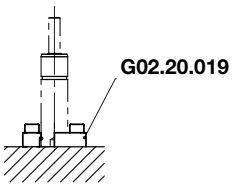
# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 7 |
|---|---|---|
| | G01.20.00170 | 007 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.00170.007 | 00170 | 7 | 44 | 37 |
| G01.20.00170.010 | | 10 | 50 | 40 |
| G01.20.00170.015 | | 15 | 60 | 45 |
| G01.20.00170.019 | | 19 | 68 | 49 |
| G01.20.00170.025 | | 25 | 80 | 55 |
| G01.20.00170.038 | | 38 | 106 | 68 |
| G01.20.00170.050 | | 50 | 130 | 80 |
| G01.20.00170.063 | | 63 | 156 | 93 |
| G01.20.00170.075 | | 75 | 185 | 110 |
| G01.20.00170.080 | | 80 | 195 | 115 |
| G01.20.00170.100 | | 100 | 235 | 135 |
| G01.20.00170.125 | | 125 | 285 | 160 |

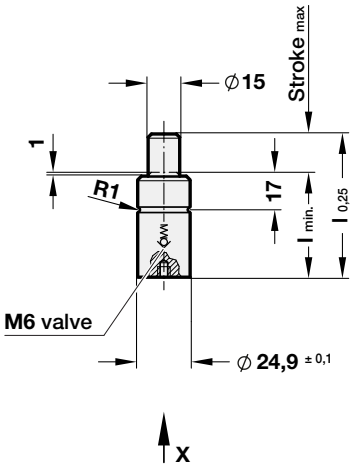
## MOUNTING EXAMPLES :



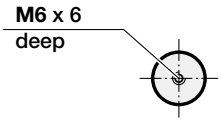



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB




View X - Gas spring





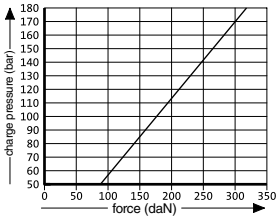

**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

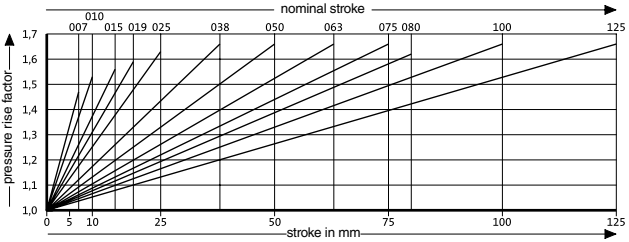
S>max | V>max | P>max

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



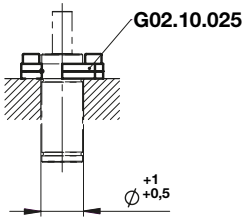

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 7 |
|---|---|---|
| | G01.20.00320 | 007 |

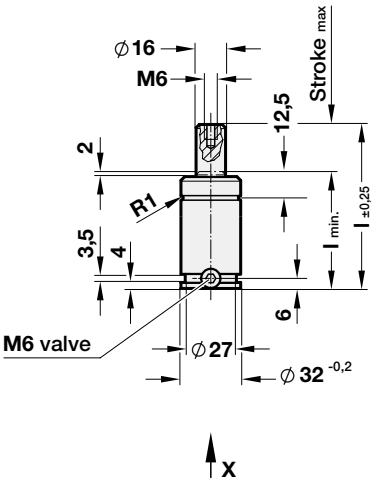
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.00320.007 | 00320 | 7 | 44 | 37 |
| G01.20.00320.010 | | 10 | 50 | 40 |
| G01.20.00320.015 | | 15 | 60 | 45 |
| G01.20.00320.019 | | 19 | 68 | 49 |
| G01.20.00320.025 | | 25 | 80 | 55 |
| G01.20.00320.038 | | 38 | 106 | 68 |
| G01.20.00320.050 | | 50 | 130 | 80 |
| G01.20.00320.063 | | 63 | 156 | 93 |
| G01.20.00320.075 | | 75 | 185 | 110 |
| G01.20.00320.080 | | 80 | 195 | 115 |
| G01.20.00320.100 | | 100 | 235 | 135 |
| G01.20.00320.125 | | 125 | 285 | 160 |

## MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB





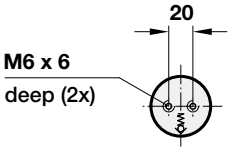

**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

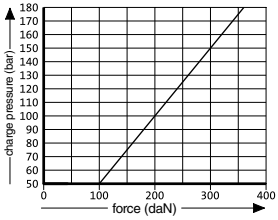
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

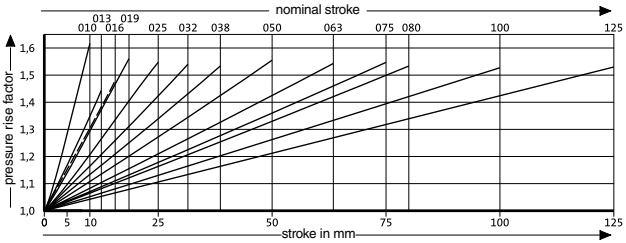
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



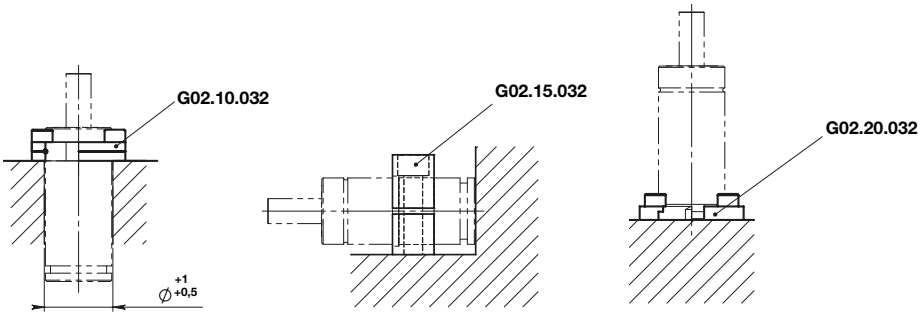

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

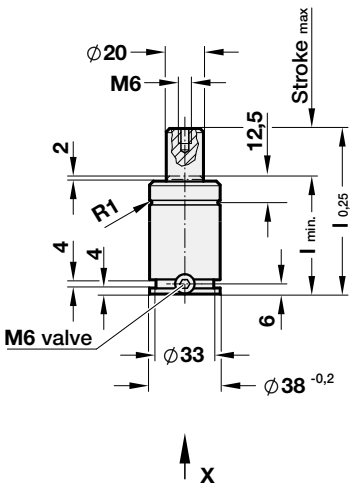
| ORDER EXAMPLE | Art. | Stroke = 10 |
|---|---|---|
| | G01.20.00350 | 010 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.00350.010 | 00350 | 10 | 50 | 40 |
| G01.20.00350.013 | | 13 | 56 | 43 |
| G01.20.00350.016 | | 16 | 62 | 46 |
| G01.20.00350.019 | | 19 | 68 | 49 |
| G01.20.00350.025 | | 25 | 80 | 55 |
| G01.20.00350.032 | | 32 | 94 | 62 |
| G01.20.00350.038 | | 38 | 106 | 68 |
| G01.20.00350.050 | | 50 | 130 | 80 |
| G01.20.00350.063 | | 63 | 156 | 93 |
| G01.20.00350.075 | | 75 | 180 | 105 |
| G01.20.00350.080 | | 80 | 190 | 110 |
| G01.20.00350.100 | | 100 | 230 | 130 |
| G01.20.00350.125 | | 125 | 280 | 155 |

## MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE




STOCK

3D

WEB



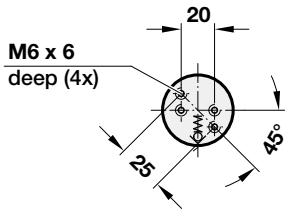
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

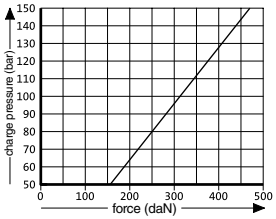
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

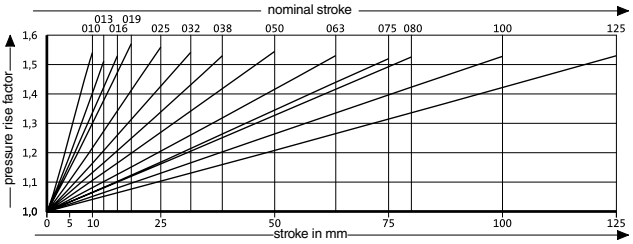
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



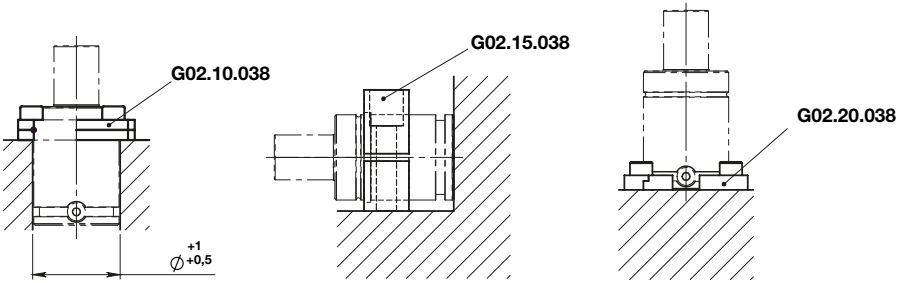

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

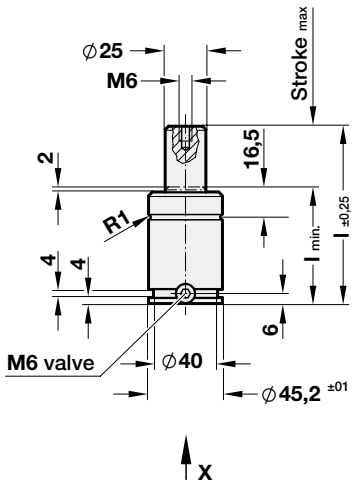
| ORDER EXAMPLE | Art. | Stroke = 10 |
|---|---|---|
| | G01.20.00500 | 010 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.00500.010 | 00470 | 10 | 50 | 40 |
| G01.20.00500.013 | | 13 | 56 | 43 |
| G01.20.00500.016 | | 16 | 62 | 46 |
| G01.20.00500.019 | | 19 | 68 | 49 |
| G01.20.00500.025 | | 25 | 80 | 55 |
| G01.20.00500.032 | | 32 | 94 | 62 |
| G01.20.00500.038 | | 38 | 106 | 68 |
| G01.20.00500.050 | | 50 | 130 | 80 |
| G01.20.00500.063 | | 63 | 156 | 93 |
| G01.20.00500.075 | | 75 | 180 | 105 |
| G01.20.00500.080 | | 80 | 190 | 110 |
| G01.20.00500.100 | | 100 | 230 | 130 |
| G01.20.00500.125 | | 125 | 280 | 155 |

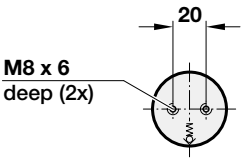
## MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE




View X - Gas spring




STOCK

3D

WEB



**Notes**

APPROVED PED 2014/68/EU

VDI

ISO

S>max

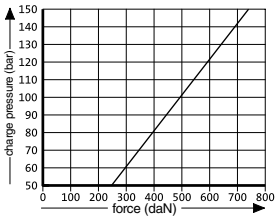
V>max

P>max

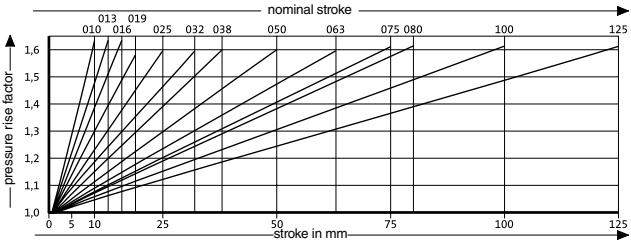
Flex Guide™

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



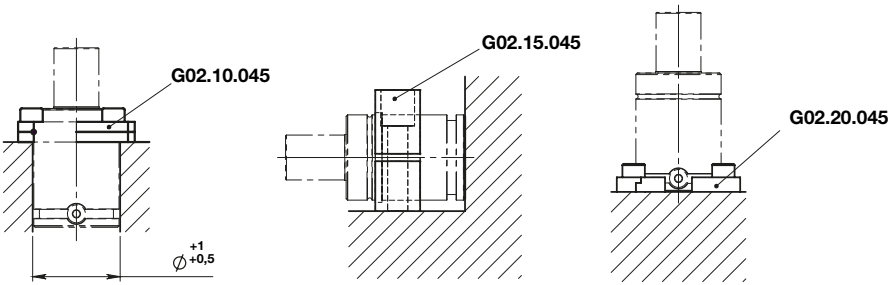

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 10 |
|---|---|---|
| | G01.20.00750 | 010 |

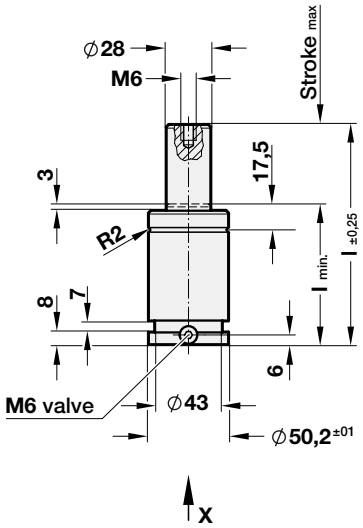
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.00750.010 | 00750 | 10 | 52 | 42 |
| G01.20.00750.013 | | 13 | 58 | 45 |
| G01.20.00750.016 | | 16 | 64 | 48 |
| G01.20.00750.019 | | 19 | 70 | 51 |
| G01.20.00750.025 | | 25 | 82 | 57 |
| G01.20.00750.032 | | 32 | 96 | 64 |
| G01.20.00750.038 | | 38 | 108 | 70 |
| G01.20.00750.050 | | 50 | 132 | 82 |
| G01.20.00750.063 | | 63 | 158 | 95 |
| G01.20.00750.075 | | 75 | 182 | 107 |
| G01.20.00750.080 | | 80 | 192 | 112 |
| G01.20.00750.100 | | 100 | 232 | 132 |
| G01.20.00750.125 | | 125 | 282 | 157 |

## MOUNTING EXAMPLES :



OMCR

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE




STOCK 3D WEB



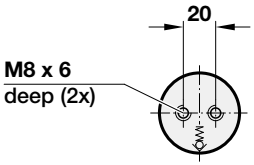
**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

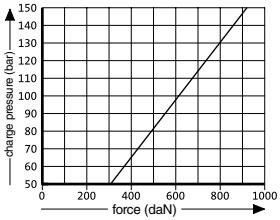
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

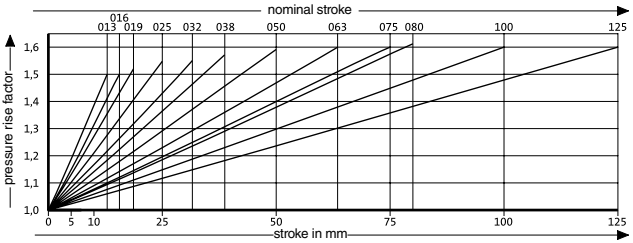
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



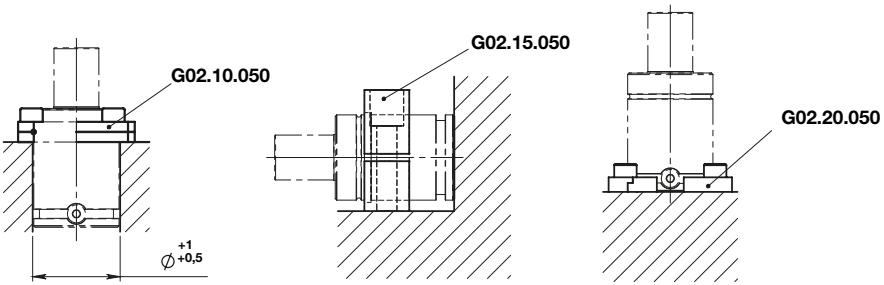

Pressure rise factor accounts for displacement but not external influences!

## GAS SPRING - POWERLINE
## GASDRUCKFEDER POWERLINE
## MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 13 |
|---|---|---|
| | G01.20.01000 | 013 |

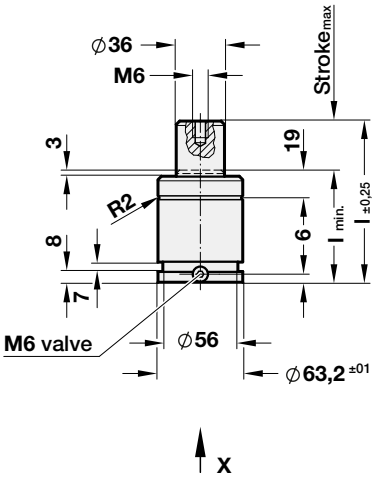
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.01000.013 | 00920 | 13 | 64 | 51 |
| G01.20.01000.016 | | 16 | 70 | 54 |
| G01.20.01000.019 | | 19 | 76 | 57 |
| G01.20.01000.025 | | 25 | 88 | 63 |
| G01.20.01000.032 | | 32 | 102 | 70 |
| G01.20.01000.038 | | 38 | 114 | 76 |
| G01.20.01000.050 | | 50 | 138 | 88 |
| G01.20.01000.063 | | 63 | 164 | 101 |
| G01.20.01000.075 | | 75 | 188 | 113 |
| G01.20.01000.080 | | 80 | 198 | 118 |
| G01.20.01000.100 | | 100 | 238 | 138 |
| G01.20.01000.125 | | 125 | 288 | 163 |

### MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB





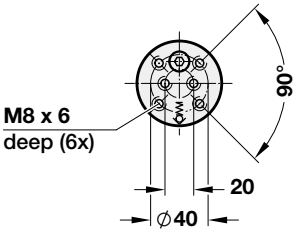

## Notes

APPROVED PED 2014/68/EU | VDI | ISO

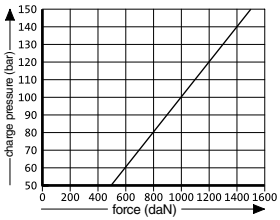
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

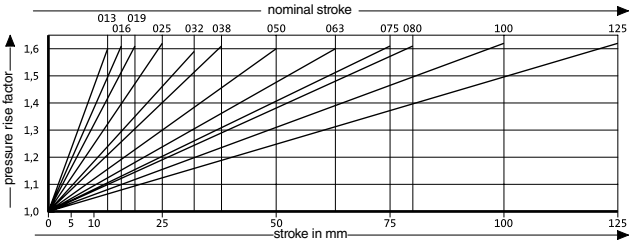
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



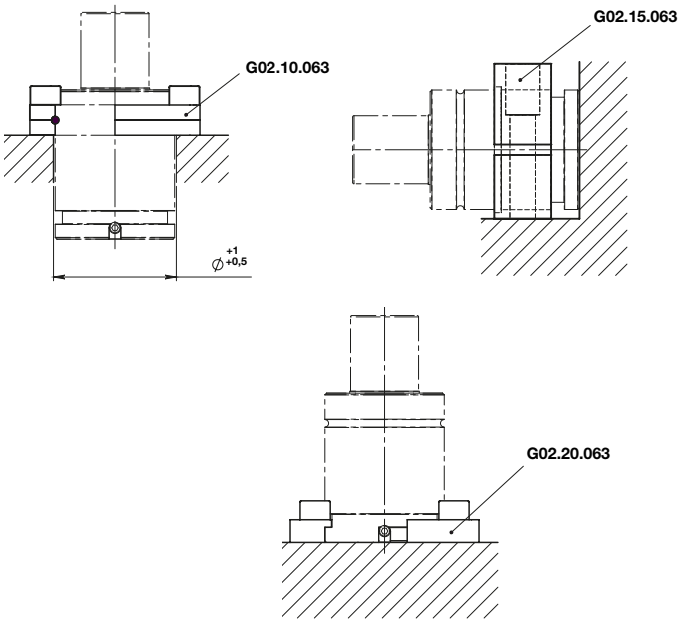

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 13 |
|---|---|---|
| | G01.20.01500 | 013 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.01500.013 | 01500 | 13 | 70 | 57 |
| G01.20.01500.016 | | 16 | 76 | 60 |
| G01.20.01500.019 | | 19 | 82 | 63 |
| G01.20.01500.025 | | 25 | 94 | 69 |
| G01.20.01500.032 | | 32 | 108 | 76 |
| G01.20.01500.038 | | 38 | 120 | 82 |
| G01.20.01500.050 | | 50 | 144 | 94 |
| G01.20.01500.063 | | 63 | 170 | 107 |
| G01.20.01500.075 | | 75 | 194 | 119 |
| G01.20.01500.080 | | 80 | 204 | 124 |
| G01.20.01500.100 | | 100 | 244 | 144 |
| G01.20.01500.125 | | 125 | 294 | 169 |

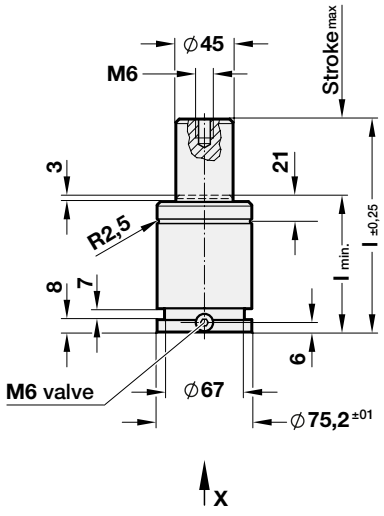
## MOUNTING EXAMPLES :



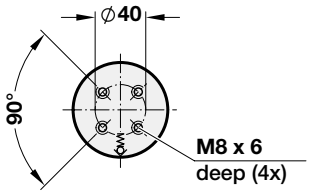
# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB






View X - Gas spring



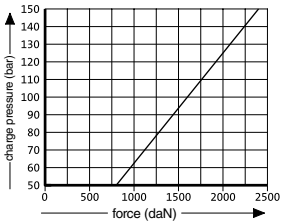

**Notes**

APPROVED PED 2014/68/EU · VDI · ISO

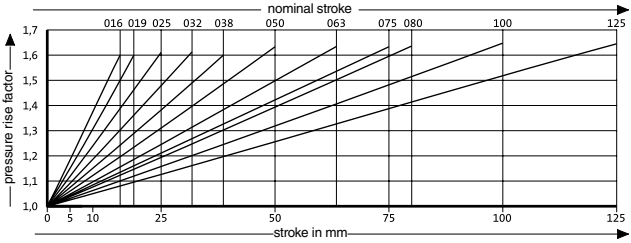
S>max · V>max · P>max · Flex Guide™

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



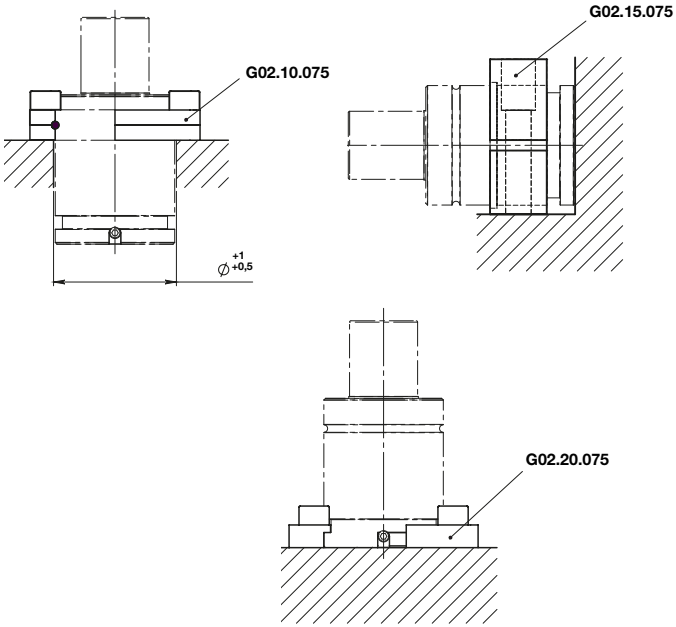

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 16 |
|---|---|---|
| | G01.20.02400 | 016 |

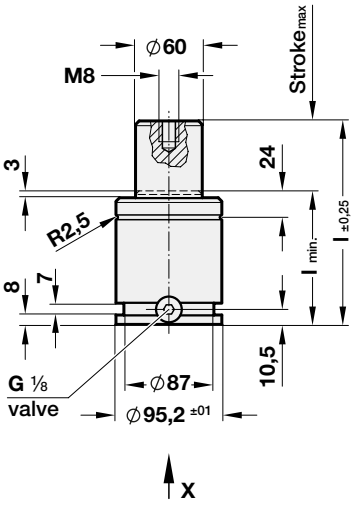
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.02400.016 | 02400 | 16 | 77 | 61 |
| G01.20.02400.019 | | 19 | 83 | 64 |
| G01.20.02400.025 | | 25 | 95 | 70 |
| G01.20.02400.032 | | 32 | 109 | 77 |
| G01.20.02400.038 | | 38 | 121 | 83 |
| G01.20.02400.050 | | 50 | 145 | 95 |
| G01.20.02400.063 | | 63 | 171 | 108 |
| G01.20.02400.075 | | 75 | 195 | 120 |
| G01.20.02400.080 | | 80 | 205 | 125 |
| G01.20.02400.100 | | 100 | 245 | 145 |
| G01.20.02400.125 | | 125 | 295 | 170 |

## MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB





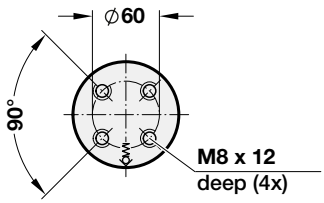

## Notes

APPROVED PED 2014/68/EU | VDI | ISO

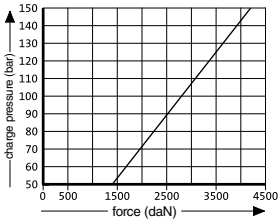
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

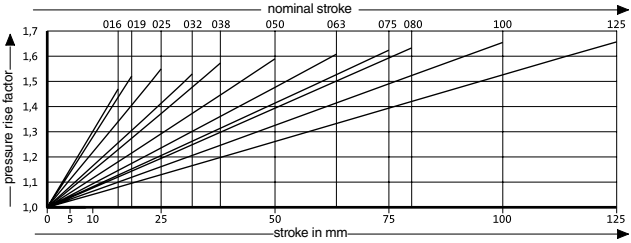
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



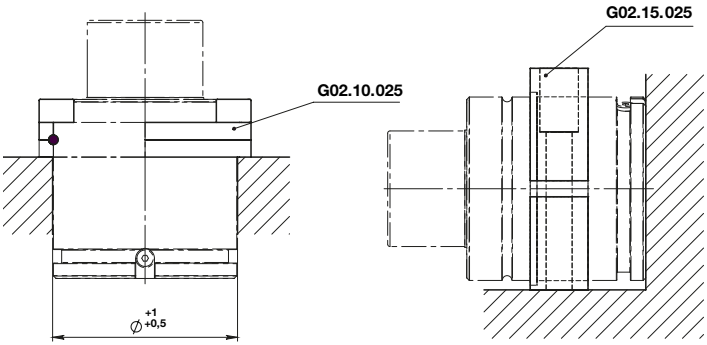

Pressure rise factor accounts for displacement but not external influences!

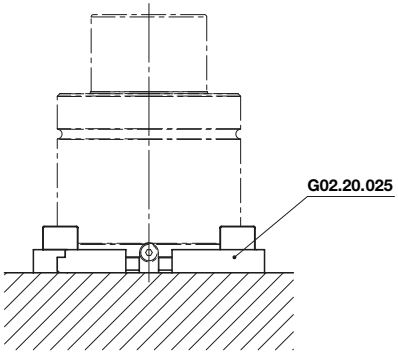
# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 16 |
|---|---|---|
| | G01.20.04200 | 016 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.04200.016 | 04200 | 16 | 90 | 74 |
| G01.20.04200.019 | | 19 | 96 | 77 |
| G01.20.04200.025 | | 25 | 108 | 83 |
| G01.20.04200.032 | | 32 | 122 | 90 |
| G01.20.04200.038 | | 38 | 134 | 96 |
| G01.20.04200.050 | | 50 | 158 | 108 |
| G01.20.04200.063 | | 63 | 184 | 121 |
| G01.20.04200.075 | | 75 | 208 | 133 |
| G01.20.04200.080 | | 80 | 218 | 138 |
| G01.20.04200.100 | | 100 | 258 | 158 |
| G01.20.04200.125 | | 125 | 308 | 183 |

## MOUNTING EXAMPLES :

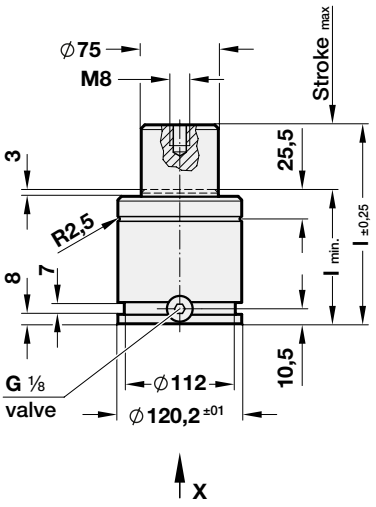


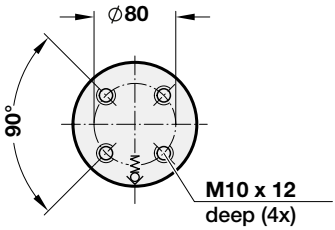
# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB






View X - Gas spring



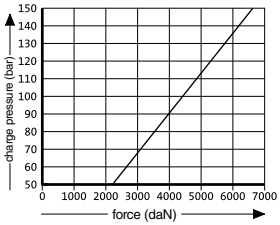

**Notes**

APPROVED PED 2014/68/EU · VDI · ISO

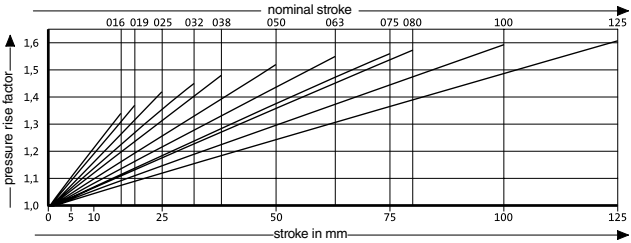
S>max · V>max · P>max · Flex Guide™

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



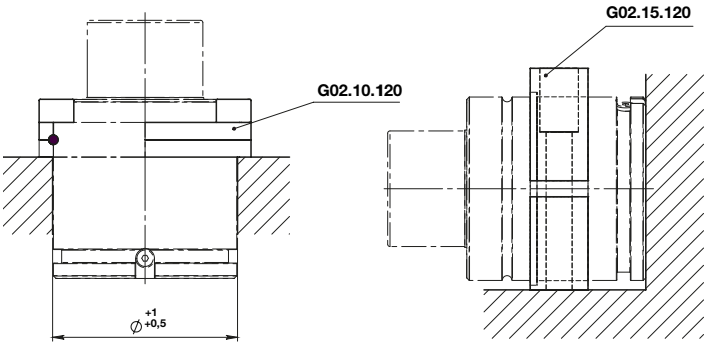

Pressure rise factor accounts for displacement but not external influences!

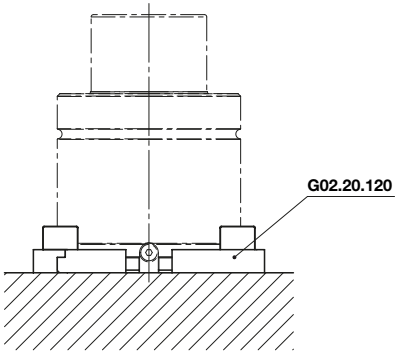
# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 16 |
|---|---|---|
| | G01.20.06600 | 016 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.06600.016 | 06600 | 16 | 100 | 84 |
| G01.20.06600.019 | | 19 | 106 | 87 |
| G01.20.06600.025 | | 25 | 118 | 93 |
| G01.20.06600.032 | | 32 | 132 | 100 |
| G01.20.06600.038 | | 38 | 144 | 106 |
| G01.20.06600.050 | | 50 | 168 | 118 |
| G01.20.06600.063 | | 63 | 194 | 131 |
| G01.20.06600.075 | | 75 | 218 | 143 |
| G01.20.06600.080 | | 80 | 228 | 148 |
| G01.20.06600.100 | | 100 | 268 | 168 |
| G01.20.06600.125 | | 125 | 318 | 193 |

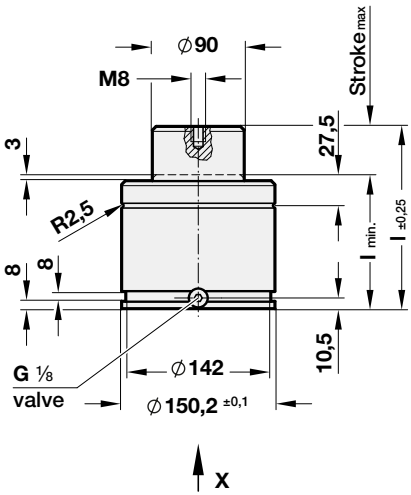
## MOUNTING EXAMPLES :



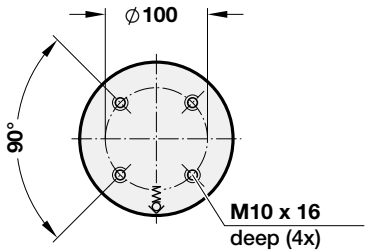



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

STOCK 3D WEB




View X - Gas spring





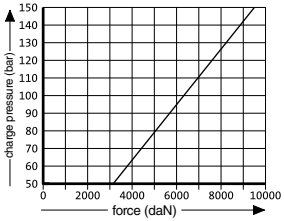

## Notes

APPROVED PED 2014/68/EU | VDI | ISO

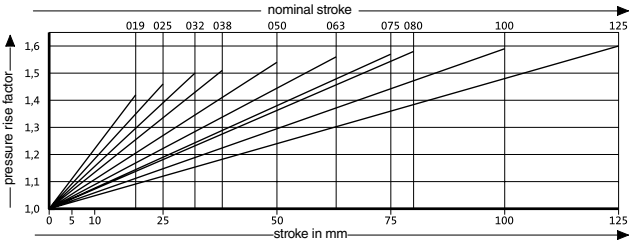
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



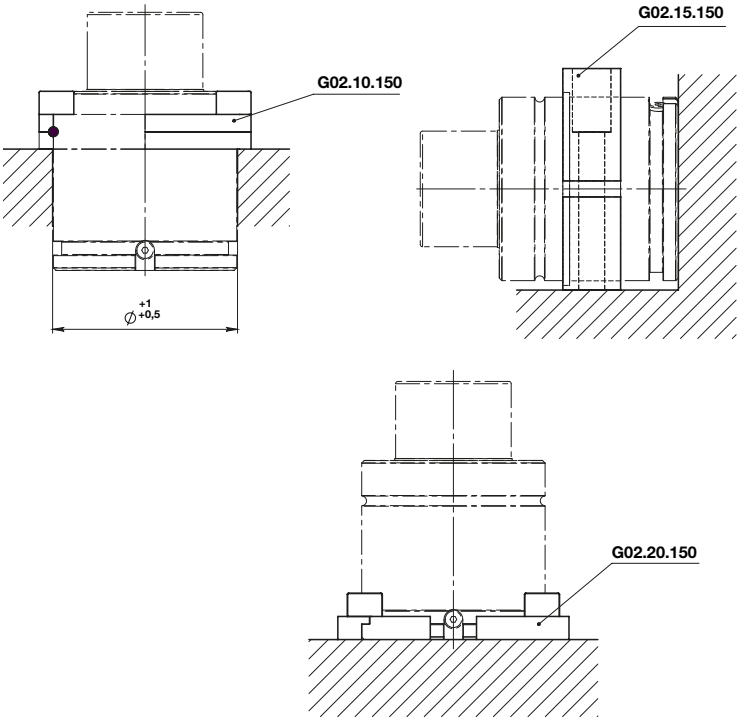

Pressure rise factor accounts for displacement but not external influences!

# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

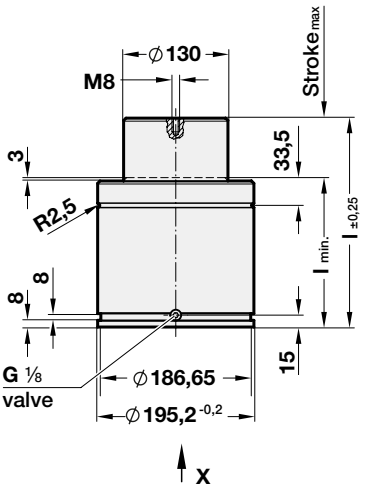
| ORDER EXAMPLE | Art. | Stroke = 19 |
|---|---|---|
| | G01.20.09500 | 019 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.09500.019 | 09500 | 19 | 116 | 97 |
| G01.20.09500.025 | | 25 | 128 | 103 |
| G01.20.09500.032 | | 32 | 142 | 110 |
| G01.20.09500.038 | | 38 | 154 | 116 |
| G01.20.09500.050 | | 50 | 178 | 128 |
| G01.20.09500.063 | | 63 | 204 | 141 |
| G01.20.09500.075 | | 75 | 228 | 153 |
| G01.20.09500.080 | | 80 | 238 | 158 |
| G01.20.09500.100 | | 100 | 278 | 178 |
| G01.20.09500.125 | | 125 | 328 | 203 |

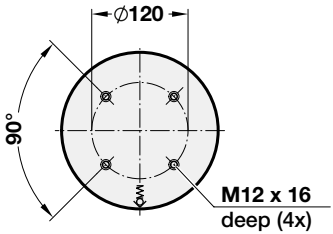
## MOUNTING EXAMPLES :



# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE




View X - Gas spring




STOCK

3D WEB



**Notes**

APPROVED PED 2014/68/EU

ISO

S>max

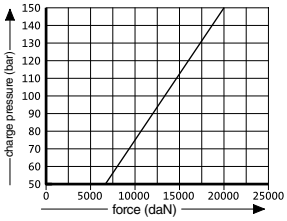
V>max

P>max

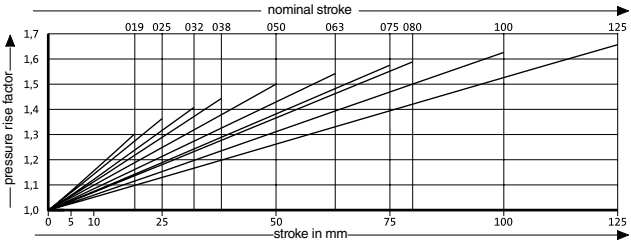
Flex Guide™

Max. piston speed: 1.6 m/s

Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



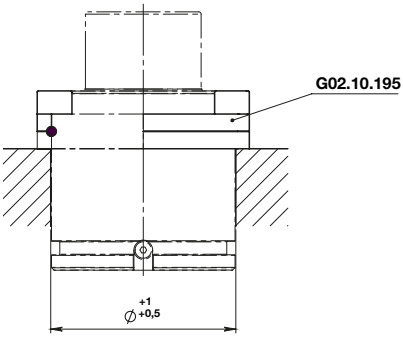

Pressure rise factor accounts for displacement but not external influences!

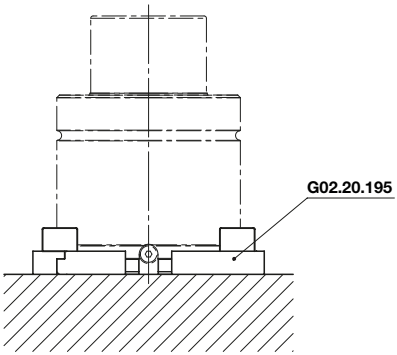
# GAS SPRING - POWERLINE
# GASDRUCKFEDER POWERLINE
# MOLLA A GAS POWERLINE

| ORDER EXAMPLE | Art. | Stroke = 19 |
|---|---|---|
| | G01.20.20000 | 019 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.20.20000.019 | 20000 | 19 | 148 | 129 |
| G01.20.20000.025 | | 25 | 160 | 135 |
| G01.20.20000.032 | | 32 | 174 | 142 |
| G01.20.20000.038 | | 38 | 186 | 148 |
| G01.20.20000.050 | | 50 | 210 | 160 |
| G01.20.20000.063 | | 63 | 236 | 173 |
| G01.20.20000.075 | | 75 | 260 | 185 |
| G01.20.20000.080 | | 80 | 270 | 190 |
| G01.20.20000.100 | | 100 | 310 | 210 |
| G01.20.20000.125 | | 125 | 360 | 235 |

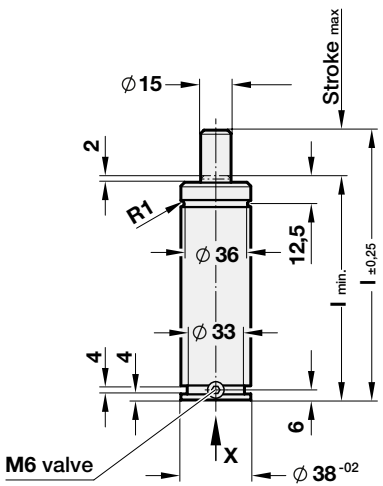
## MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

STOCK 3D WEB





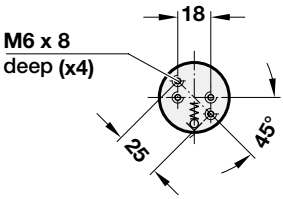

**Notes**

APPROVED PED 2014/68/EU | VDI | ISO

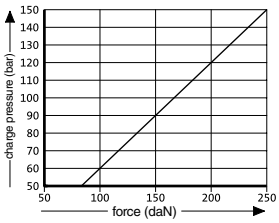
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

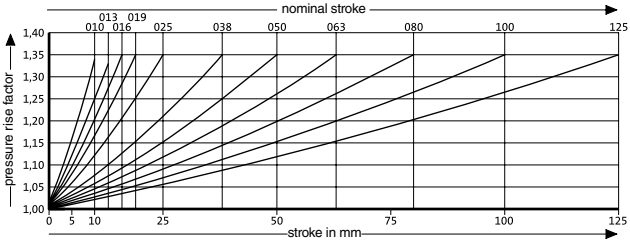
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



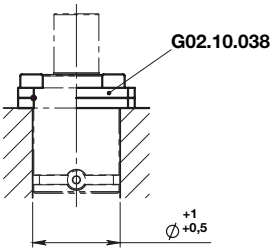

Pressure rise factor accounts for displacement but not external influences!

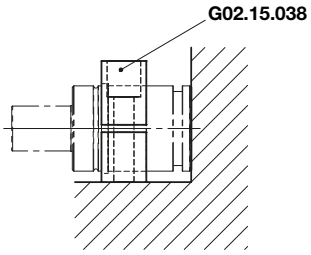
# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

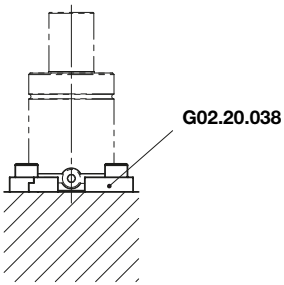
| ORDER EXAMPLE | Art. | Stroke = 10 |
|---|---|---|
| | G01.30.00250 | 10 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.00250.010 | 00250 | 10 | 70 | 60 |
| G01.30.00250.013 | | 12,7 | 75,4 | 62,7 |
| G01.30.00250.016 | | 16 | 82 | 66 |
| G01.30.00250.019 | | 19 | 88 | 69 |
| G01.30.00250.025 | | 25 | 100 | 75 |
| G01.30.00250.038 | | 38,1 | 126,2 | 88,1 |
| G01.30.00250.050 | | 50 | 150 | 100 |
| G01.30.00250.063 | | 63,5 | 177 | 113,5 |
| G01.30.00250.080 | | 80 | 210 | 130 |
| G01.30.00250.100 | | 100 | 250 | 150 |
| G01.30.00250.125 | | 125 | 300 | 175 |

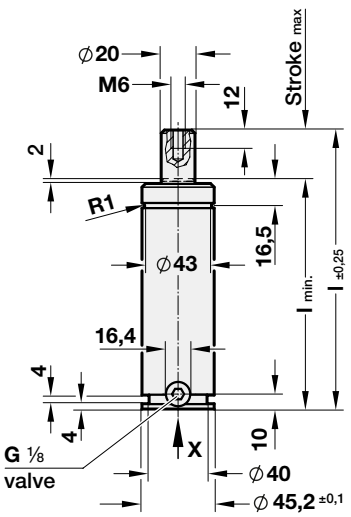
## MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK

3D

WEB



## Notes

APPROVED PED 2014/68/EU

VDI

ISO

S>max

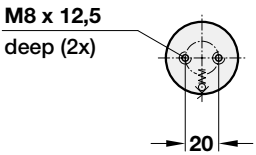
V>max

P>max

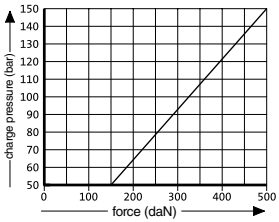
Flex Guide™

Max. piston speed: 1.6 m/s

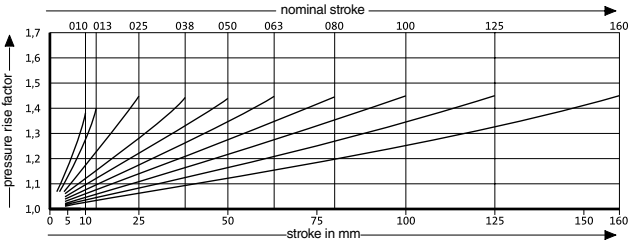
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



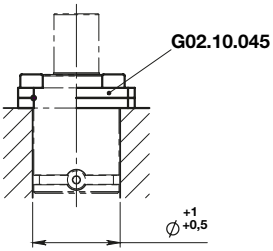

Pressure rise factor accounts for displacement but not external influences!

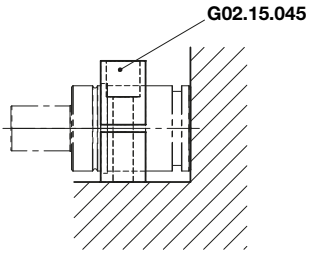
# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

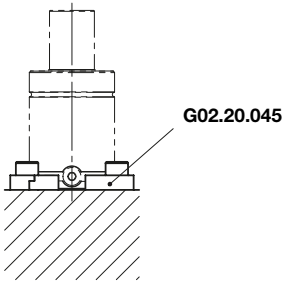
| ORDER EXAMPLE | Art. | Stroke = 10 |
|---|---|---|
| | G01.30.00500 | 010 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.00500.010 | 00500 | 10 | 105 | 95 |
| G01.30.00500.013 | | 12,7 | 110,4 | 97,7 |
| G01.30.00500.025 | | 25 | 135 | 110 |
| G01.30.00500.038 | | 38,1 | 161,2 | 123,1 |
| G01.30.00500.050 | | 50 | 185 | 135 |
| G01.30.00500.063 | | 63,5 | 212 | 148,5 |
| G01.30.00500.080 | | 80 | 245 | 165 |
| G01.30.00500.100 | | 100 | 285 | 185 |
| G01.30.00500.125 | | 125 | 335 | 210 |
| G01.30.00500.160 | | 160 | 405 | 245 |

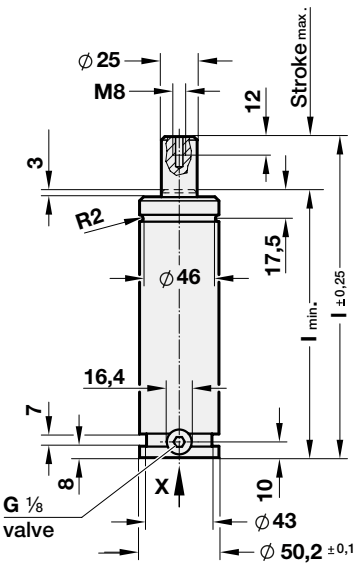
## MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK 3D WEB



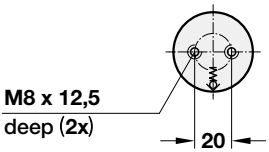
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

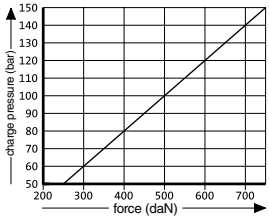



Max. piston speed: 1.6 m/s

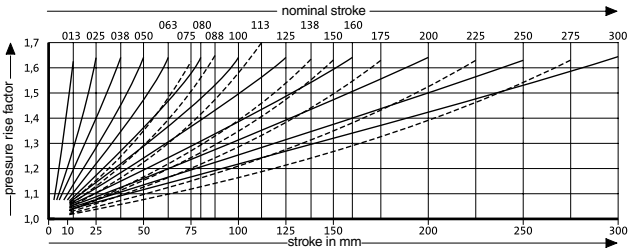
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

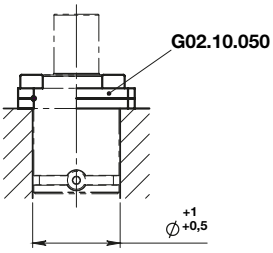
## GAS SPRING - STANDARD
## GASDRUCKFEDER STANDARD
## MOLLA A GAS STANDARD

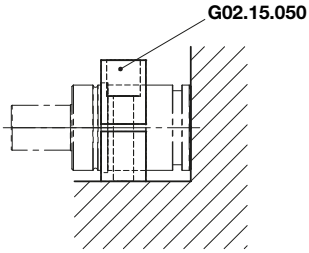
| ORDER EXAMPLE | Art. | Stroke = 12,7 |
|---|---|---|
| | G01.30.00750 | 013 |

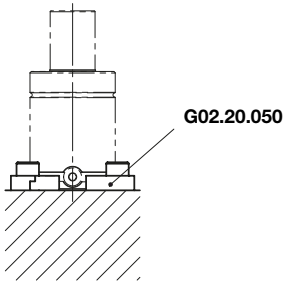
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.00750.013 | 00750 | 12,7 | 120,4 | 107,7 |
| G01.30.00750.025 | | 25 | 145 | 120 |
| G01.30.00750.038 | | 38,1 | 171,2 | 133,1 |
| G01.30.00750.050 | | 50 | 195 | 145 |
| G01.30.00750.063 | | 63,5 | 222 | 158,5 |
| G01.30.00750.075* | | 75 | 245 | 170 |
| G01.30.00750.080 | | 80 | 255 | 175 |
| G01.30.00750.088* | | 87,5 | 270 | 182,5 |
| G01.30.00750.100 | | 100 | 295 | 195 |
| G01.30.00750.113* | | 112,5 | 320 | 207,5 |
| G01.30.00750.125 | | 125 | 345 | 220 |
| G01.30.00750.138* | | 137,5 | 370 | 232,5 |
| G01.30.00750.150* | | 150 | 395 | 245 |
| G01.30.00750.160 | | 160 | 415 | 255 |
| G01.30.00750.175* | | 175 | 445 | 270 |
| G01.30.00750.200 | | 200 | 495 | 295 |
| G01.30.00750.225* | | 225 | 545 | 320 |
| G01.30.00750.250 | | 250 | 595 | 345 |
| G01.30.00750.275 | | 275 | 645 | 370 |
| G01.30.00750.300 | | 300 | 695 | 395 |

***** Special stroke lengths Not for gas springs to Renault Standard EM24.54.700.

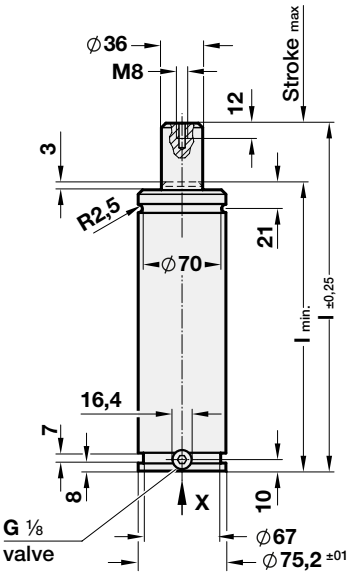
### MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK 3D WEB



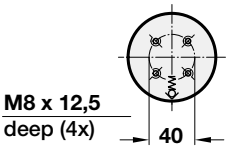
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

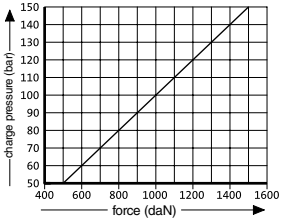



Max. piston speed: 1.6 m/s

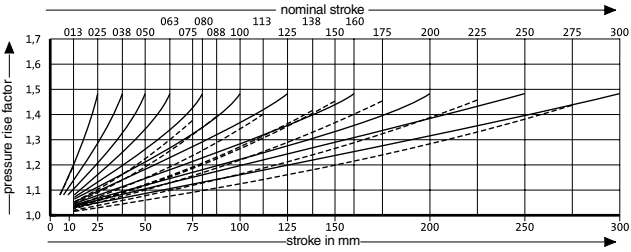
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

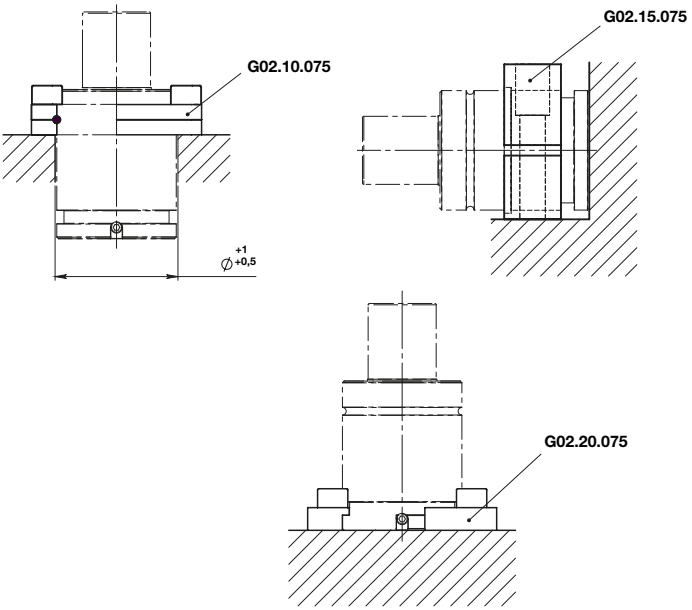
# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

| ORDER EXAMPLE | Art. | Stroke = 12,7 |
|---|---|---|
| | G01.30.01500 | 013 |

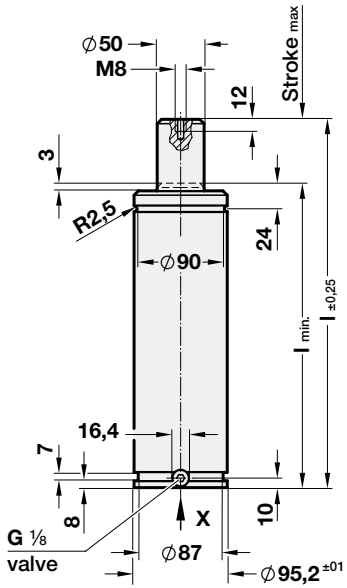
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.01500.013* | 01500 | 12,7 | 135 | 122,3 |
| G01.30.01500.025 | | 25 | 160 | 135 |
| G01.30.01500.038 | | 38,1 | 186,2 | 148,1 |
| G01.30.01500.050 | | 50 | 210 | 160 |
| G01.30.01500.063 | | 63,5 | 237 | 173,5 |
| G01.30.01500.075* | | 75 | 260 | 185 |
| G01.30.01500.080 | | 80 | 270 | 190 |
| G01.30.01500.088* | | 87,5 | 285 | 197,5 |
| G01.30.01500.100 | | 100 | 310 | 210 |
| G01.30.01500.113* | | 112,5 | 335 | 222,5 |
| G01.30.01500.125 | | 125 | 360 | 235 |
| G01.30.01500.138* | | 137,5 | 385 | 247,5 |
| G01.30.01500.150* | | 150 | 410 | 260 |
| G01.30.01500.160 | | 160 | 430 | 270 |
| G01.30.01500.175* | | 175 | 460 | 285 |
| G01.30.01500.200 | | 200 | 510 | 310 |
| G01.30.01500.225* | | 225 | 560 | 335 |
| G01.30.01500.250 | | 250 | 610 | 360 |
| G01.30.01500.275 | | 275 | 660 | 385 |
| G01.30.01500.300 | | 300 | 710 | 410 |

***** Special stroke lengths Not for gas springs to Renault Standard EM24.54.700.

## MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK 3D WEB



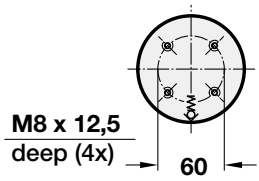
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

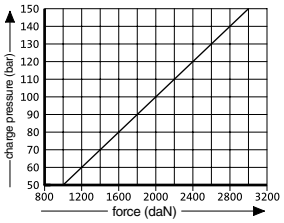



Max. piston speed: 1.6 m/s

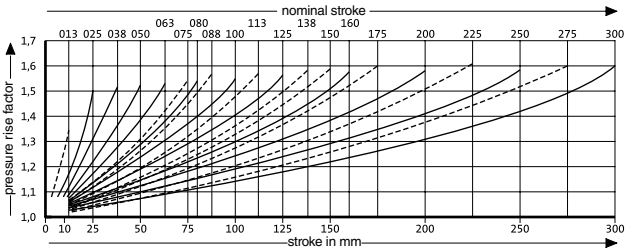
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

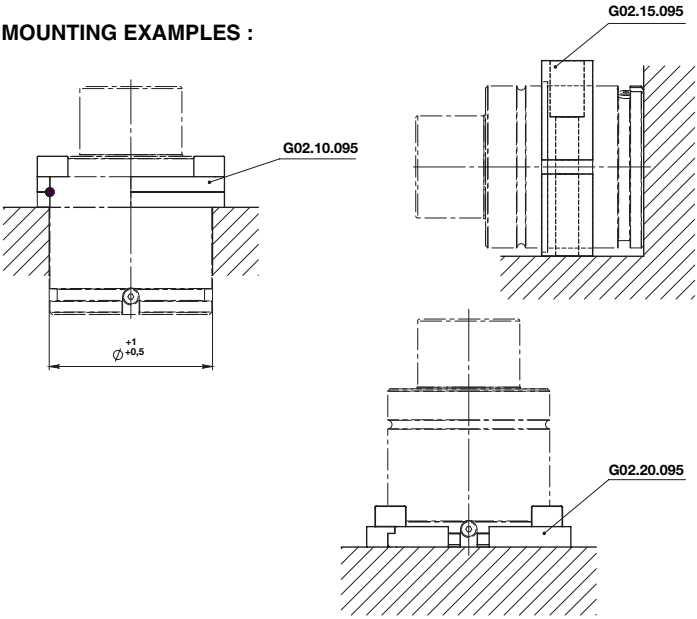
# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

| ORDER EXAMPLE | Art. | Stroke = 12,7 |
|---|---|---|
| | G01.30.03000 | 013 |

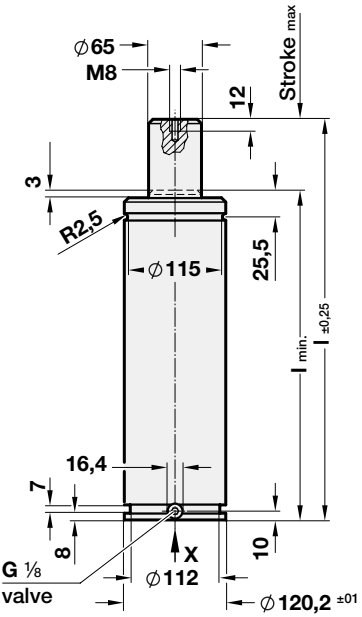
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.03000.013* | 03000 | 12,7 | 145 | 132,3 |
| G01.30.03000.025 | | 25 | 170 | 145 |
| G01.30.03000.038 | | 38,1 | 196,2 | 158,1 |
| G01.30.03000.050 | | 50 | 220 | 170 |
| G01.30.03000.063 | | 63,5 | 247 | 183,5 |
| G01.30.03000.075* | | 75 | 270 | 195 |
| G01.30.03000.080 | | 80 | 280 | 200 |
| G01.30.03000.088* | | 87,5 | 295 | 207,5 |
| G01.30.03000.100 | | 100 | 320 | 220 |
| G01.30.03000.113* | | 112,5 | 345 | 232,5 |
| G01.30.03000.125 | | 125 | 370 | 245 |
| G01.30.03000.138* | | 137,5 | 395 | 257,5 |
| G01.30.03000.150* | | 150 | 420 | 270 |
| G01.30.03000.160 | | 160 | 440 | 280 |
| G01.30.03000.175* | | 175 | 470 | 295 |
| G01.30.03000.200 | | 200 | 520 | 320 |
| G01.30.03000.225* | | 225 | 570 | 345 |
| G01.30.03000.250 | | 250 | 620 | 370 |
| G01.30.03000.275* | | 275 | 670 | 395 |
| G01.30.03000.300 | | 300 | 720 | 420 |

***** Special stroke lengths Not for gas springs to Renault Standard EM24.54.700.

## MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK

3D

WEB



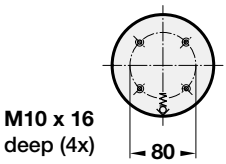
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

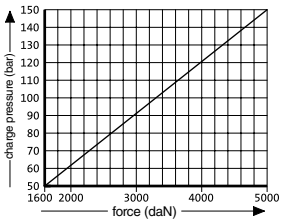
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

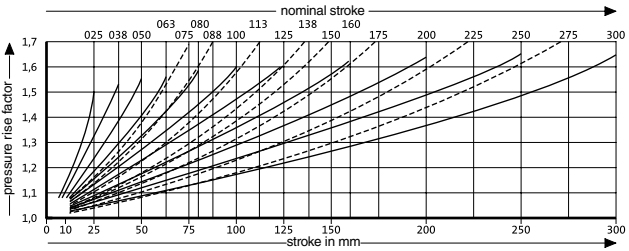
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

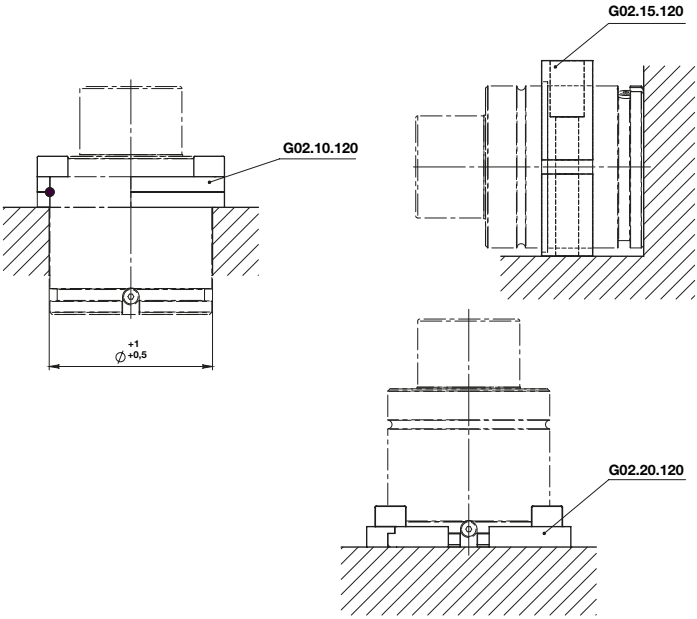
# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

| ORDER EXAMPLE | Art. | Stroke = 25 |
|---|---|---|
| | G01.30.05000 | 025 |

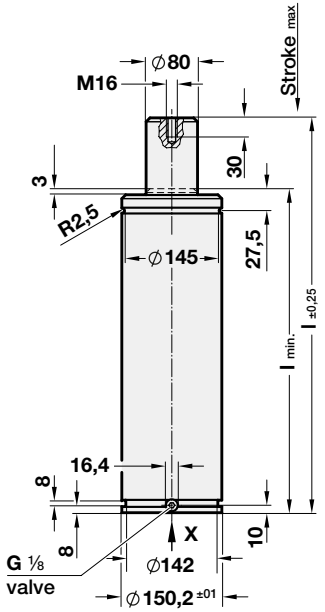
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.05000.025 | 05000 | 25 | 190 | 165 |
| G01.30.05000.038 | | 38,1 | 216,2 | 178,1 |
| G01.30.05000.050 | | 50 | 240 | 190 |
| G01.30.05000.063 | | 63,5 | 267 | 203,5 |
| G01.30.05000.075* | | 75 | 290 | 215 |
| G01.30.05000.080 | | 80 | 300 | 220 |
| G01.30.05000.088* | | 87,5 | 315 | 227,5 |
| G01.30.05000.100 | | 100 | 340 | 240 |
| G01.30.05000.113* | | 112,5 | 365 | 252,5 |
| G01.30.05000.125 | | 125 | 390 | 265 |
| G01.30.05000.138* | | 137,5 | 415 | 277,5 |
| G01.30.05000.150* | | 150 | 440 | 290 |
| G01.30.05000.160 | | 160 | 460 | 300 |
| G01.30.05000.175* | | 175 | 490 | 315 |
| G01.30.05000.200* | | 200 | 540 | 340 |
| G01.30.05000.225* | | 225 | 590 | 365 |
| G01.30.05000.250 | | 250 | 640 | 390 |
| G01.30.05000.275* | | 275 | 690 | 415 |
| G01.30.05000.300 | | 300 | 740 | 440 |

***** Special stroke lengths Not for gas springs to Renault Standard EM24.54.700.

## MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK 3D WEB



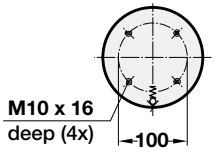
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

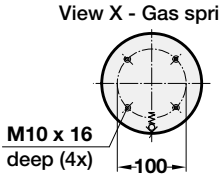
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

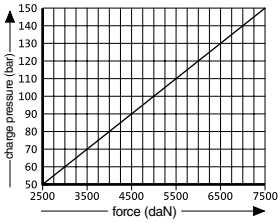
View X - Gas spring



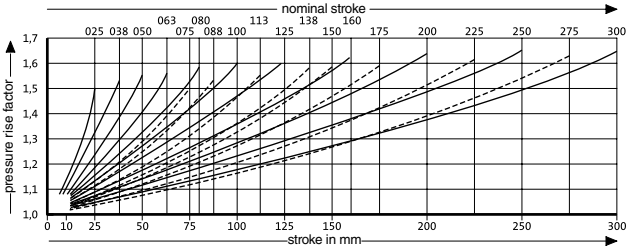

View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise




Pressure rise factor accounts for displacement but not external influences!

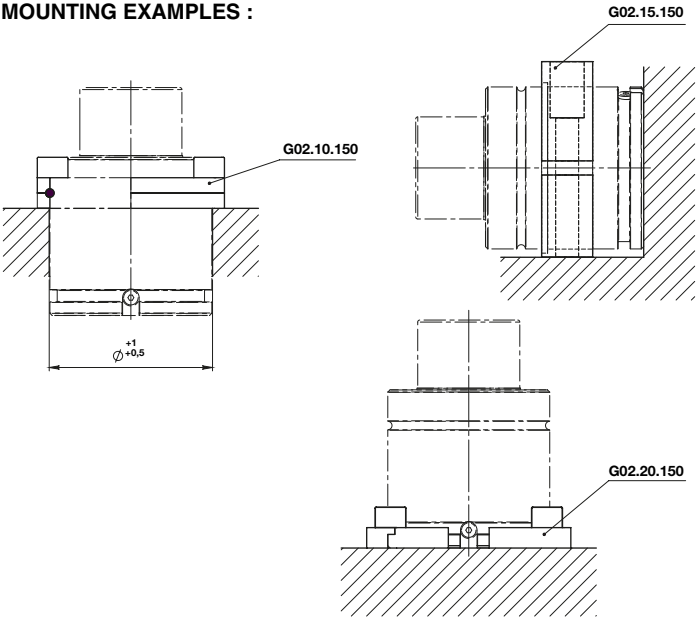
## GAS SPRING - STANDARD
## GASDRUCKFEDER STANDARD
## MOLLA A GAS STANDARD

| ORDER EXAMPLE | Art. | Stroke = 25 |
|---|---|---|
| | G01.30.07500 | 025 |

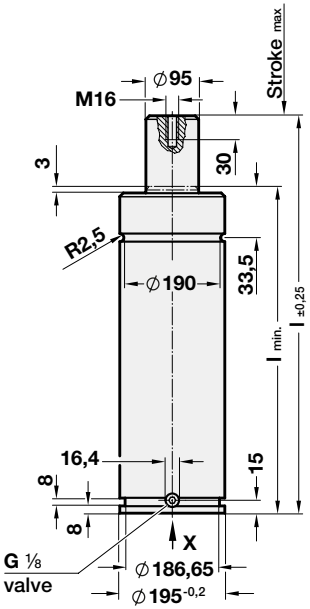
| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.07500.025 | 07500 | 25 | 205 | 180 |
| G01.30.07500.038 | | 38,1 | 231,2 | 193,1 |
| G01.30.07500.050 | | 50 | 255 | 205 |
| G01.30.07500.063 | | 63,5 | 282 | 218,5 |
| G01.30.07500.075* | | 75 | 305 | 230 |
| G01.30.07500.080 | | 80 | 315 | 235 |
| G01.30.07500.088* | | 87,5 | 330 | 242,5 |
| G01.30.07500.100 | | 100 | 355 | 255 |
| G01.30.07500.113* | | 112,5 | 380 | 267,5 |
| G01.30.07500.125 | | 125 | 405 | 280 |
| G01.30.07500.138* | | 137,5 | 430 | 292,5 |
| G01.30.07500.150* | | 150 | 455 | 305 |
| G01.30.07500.160 | | 160 | 475 | 315 |
| G01.30.07500.175* | | 175 | 505 | 330 |
| G01.30.07500.200 | | 200 | 555 | 355 |
| G01.30.07500.225* | | 225 | 605 | 380 |
| G01.30.07500.250 | | 250 | 655 | 405 |
| G01.30.07500.275* | | 275 | 705 | 430 |
| G01.30.07500.300 | | 300 | 755 | 455 |

***** Special stroke lengths Not for gas springs to Renault Standard EM24.54.700.

### MOUNTING EXAMPLES :



# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD




STOCK 3D WEB



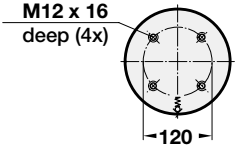
## Notes

APPROVED PED 2014/68/EU | VDI | ISO

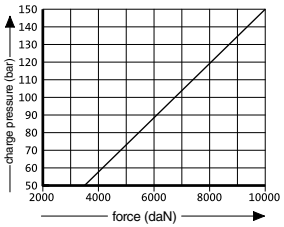
S>max | V>max | P>max | Flex Guide™

Max. piston speed: 1.6 m/s

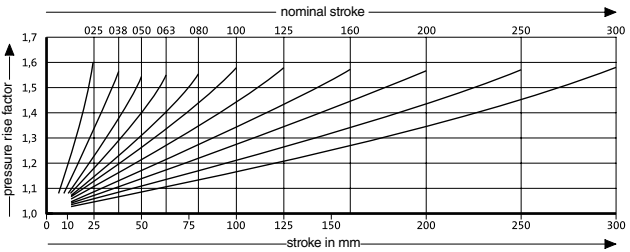
View X - Gas spring




Initial spring force
versus charge pressure




Spring force Diagram displacement versus stroke rise



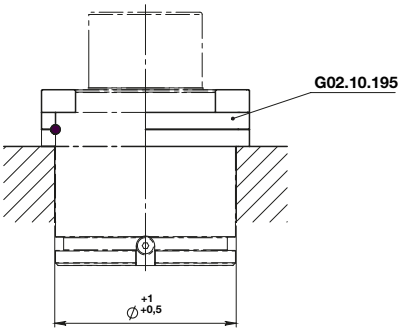

Pressure rise factor accounts for displacement but not external influences!

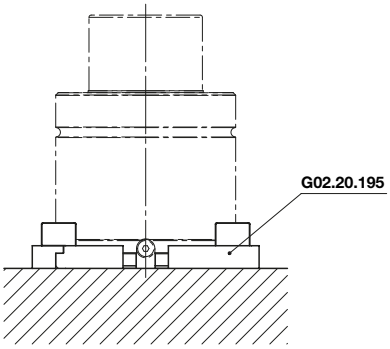
# GAS SPRING - STANDARD
# GASDRUCKFEDER STANDARD
# MOLLA A GAS STANDARD

| ORDER EXAMPLE | Art. | Stroke = 25 |
|---|---|---|
| | G01.30.10000 | 025 |

| OMCR CODE | INITIAL SPRING FORCE (daN) | STROKE max. | l | l min. |
|---|---|---|---|---|
| G01.30.10000.025 | 10000 | 25 | 210 | 185 |
| G01.30.10000.038 | | 38,1 | 236,2 | 198,1 |
| G01.30.10000.050 | | 50 | 260 | 210 |
| G01.30.10000.063 | | 63,5 | 287 | 223,5 |
| G01.30.10000.080 | | 80 | 320 | 240 |
| G01.30.10000.100 | | 100 | 360 | 260 |
| G01.30.10000.125 | | 125 | 410 | 285 |
| G01.30.10000.160 | | 160 | 480 | 320 |
| G01.30.10000.200 | | 200 | 560 | 360 |
| G01.30.10000.250 | | 250 | 660 | 410 |
| G01.30.10000.300 | | 300 | 760 | 460 |

## MOUNTING EXAMPLES :

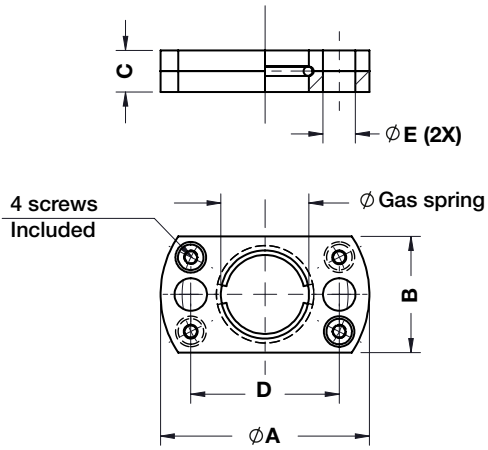


# UPPER FLANGE FOR GAS SPRING
# OBERER FLANSCH FÜR GASDRUCKFEDERN
# FLANGIA SUPERIORE PER CILINDRO AZOTO

STOCK 3D WEB





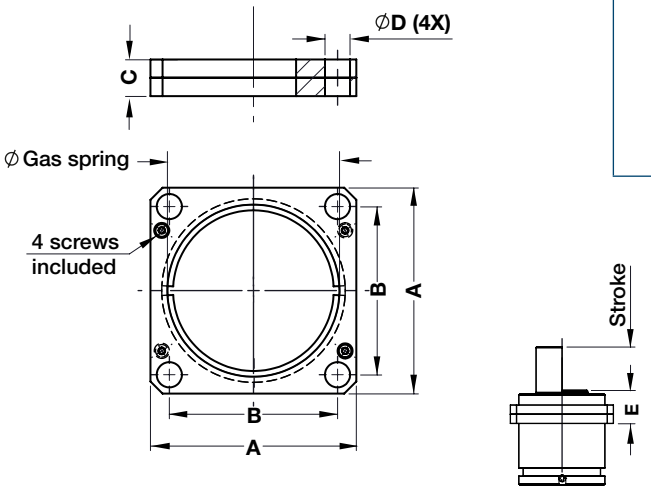

| ORDER EXAMPLE | Art. | Gas Spring Diameter = 15 |
|---|---|---|
| | G02.10 | 015 |

| OMCR CODE | Ø A | B | C | Ø D | E | Ø GAS SPRING |
|---|---|---|---|---|---|---|
| G02.10.012 | 34 | 21 | 9 | 24 | 6,6 | 12 |
| G02.10.015 | 37 | 24 | 9 | 27 | 6,6 | 15 |
| G02.10.019 | 45 | 25 | 9 | 32 | 7 | 19 |
| G02.10.025 | 50 | 30 | 9 | 38 | 6,6 | 25 |

# UPPER FLANGE FOR GAS SPRING
# OBERER FLANSCH FÜR GASDRUCKFEDERN
# FLANGIA SUPERIORE PER CILINDRO AZOTO

STOCK 3D WEB





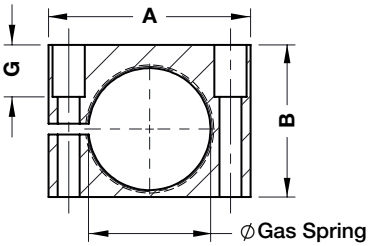

| ORDER EXAMPLE | Art. | Gas Spring Diameter = 38 |
|---|---|---|
| | G02.10 | 038 |

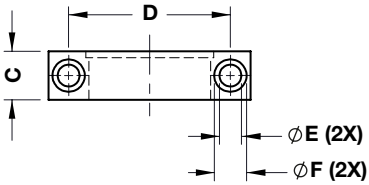
| OMCR CODE | Ø A | B | C | D | Ø E | Ø GAS SPRING |
|---|---|---|---|---|---|---|
| G02.10.032 | 45 | 35 | 9 | 7 | 17 | 32 |
| G02.10.038 | 52 | 40 | 9 | 7 | 17 | 38 |
| G02.10.045 | 64 | 50 | 13 | 9 | 23 | 45 |
| G02.10.050 | 70 | 56,5 | 13 | 9 | 24 | 50 |
| G02.10.063 | 90 | 73,5 | 16 | 11 | 27 | 63 |
| G02.10.075 | 90 | 73,5 | 16 | 11 | 29 | 75 |
| G02.10.095 | 110 | 92 | 18 | 13 | 33 | 95 |
| G02.10.120 | 130 | 109,5 | 21 | 13 | 36 | 120 |
| G02.10.150 | 162 | 138 | 27 | 17,5 | 41 | 150 |
| G02.10.195 | 210 | 170 | 27 | 17,5 | 47 | 195 |

# MIDDLE FLANGE FOR GAS SPRING
# ZENTRALER FLANSCH FÜR GASDRUCKFEDERN
# FLANGIA CENTRALE PER CILINDRO AZOTO

STOCK 3D WEB





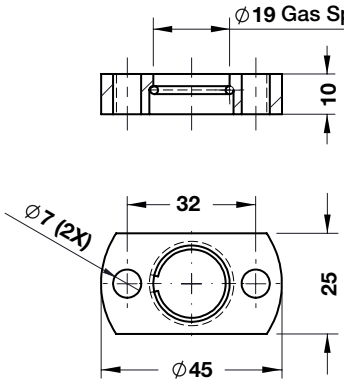

ORDER EXAMPLE

| Art. | Gas Spring Diameter = 50 |
|---|---|
| G02.15 | 050 |

| OMCR CODE | A | B | C | D | Ø E | Ø F | G | Ø GAS SPRING |
|---|---|---|---|---|---|---|---|---|
| G02.15.032 | 68 | 48 | 20 | 50 | 9 | 15 | 10 | 32 |
| G02.15.038 | 74 | 54 | 20 | 54 | 9 | 15 | 16 | 38 |
| G02.15.045 | 80 | 60 | 20 | 60 | 9 | 15 | 22 | 45 |
| G02.15.050 | 90 | 70 | 30 | 68 | 11 | 18 | 25 | 50 |
| G02.15.063 | 108 | 82 | 30 | 84 | 11 | 18 | 27 | 63 |
| G02.15.075 | 125 | 94 | 30 | 100 | 13,5 | 20 | 32 | 75 |
| G02.15.095 | 140 | 115 | 30 | 115 | 13,5 | 20 | 33 | 95 |
| G02.15.120 | 170 | 140 | 30 | 145 | 13,5 | 20 | 58 | 120 |
| G02.15.150 | 200 | 170 | 30 | 175 | 13,5 | 20 | 68 | 150 |

# G02.20

## LOWER FLANGE FOR GAS SPRING
## UBERER FLANSCH FÜR GASDRUCKFEDERN
## FLANGIA INFERIORE PER CILINDRO AZOTO




STOCK 3D WEB

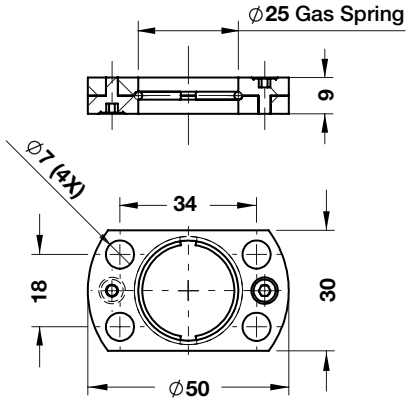


| ORDER EXAMPLE | Art. | Gas Spring Diameter = 19 |
|---|---|---|
| | G02.20 | 019 |

| OMCR CODE | Ø GAS SPRING |
|---|---|
| G02.20.019 | 19 |

# G02.20

## LOWER FLANGE FOR GAS SPRING
## UBERER FLANSCH FÜR GASDRUCKFEDERN
## FLANGIA INFERIORE PER CILINDRO AZOTO




STOCK 3D WEB



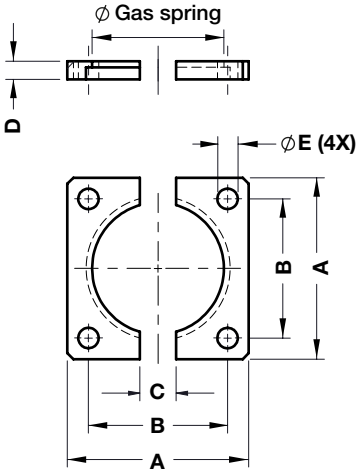
| ORDER EXAMPLE | Art. | Gas Spring Diameter = 25 |
|---|---|---|
| | G02.20 | 025 |

| OMCR CODE | Ø GAS SPRING |
|---|---|
| G02.20.025 | 25 |

# LOWER FLANGE FOR GAS SPRING
# UBERER FLANSCH FÜR GASDRUCKFEDERN
# FLANGIA INFERIORE PER CILINDRO AZOTO

STOCK 3D WEB






| ORDER EXAMPLE | Art. | Gas Spring Diameter = 45 |
|---|---|---|
| | G02.20 | 045 |

| OMCR CODE | A | B | C | D | Ø E | Ø GAS SPRING |
|---|---|---|---|---|---|---|
| G02.20.032 | 50 | 35 | 12 | 7 | 7 | 32 |
| G02.20.038 | 55 | 40 | 12 | 7 | 7 | 38 |
| G02.20.045 | 70 | 50 | 20 | 7 | 9 | 45 |
| G02.20.050 | 75 | 56,5 | 24 | 12 | 9 | 50 |
| G02.20.063 | 100 | 73,5 | 24 | 12 | 11 | 63 |
| G02.20.075 | 100 | 73,5 | 24 | 12 | 11 | 75 |
| G02.20.095 | 120 | 92 | 24 | 12 | 13 | 95 |
| G02.20.120 | 140 | 109,5 | 24 | 12 | 13 | 120 |
| G02.20.150 | 190 | 138 | 24 | 12 | 17,5 | 150 |
| G02.20.195 | 210 | 170 | 24 | 13 | 17 | 195 |

## (GB) DESCRIPTION

Connecting gas springs in one more systems enables the user to monitor gas spring pressure from outside the tool, to adjust it if necessary, to fill it and to drain it.

The connector system has many advantages including ease of maintenance, reliability and improvement in the quality of gas spring use in the tool.

## (D) BESCHREIBUNG

Das Verbinden von Gasdruckfedern in einem oder mehren Systemen bietet dem Anwender die Möglichkeit, den Gasdruck der Gasdruckfedern außerhalb des Werkzeugs zu überwachen, nach Bedarf einzustellen, zu befüllen und abzulassen. Die Vorteile des Verbundsystems liegen in der Wartungsfreundlichkeit.

## (I) DESCRIZIONE

La connessione delle molle a gas in uno o più sistemi offre all'utente la possibilità di monitorare la pressione dall'esterno dell'utensile, di regolarla secondo necessità, di caricare o di scaricare il gas. Il vantaggio offerto dai sistemi interconnessi è quello di semplificare la manutenzione e di incrementare la sicurezza e la qualità del funzionamento delle molle a gas

## MINIMESS-SYSTEM

**+** Small external hose diameter 5 mm

**+** Small bending radius Rmin = 20

**+** High pressure resistance

**+** Vibration-proof measurement couplings

**+** Connector with valve

**+** No tools needed for connecting hose to adapter, and disconnecting

**±** Swaged non-detachable hose fitting

**–** Not for use with a pressure reservoir

## TECHNICAL DATA:

**Hose:** Polyamide 11, black, dimpled

**Hose fittings:** Free cutting steel, zinc-plated

**Measuring couplings:** Free cutting steel, zinc-plated

**Adapter:** Steel, burnished

**Max. permi. pressure:** 630 bar

**Temperature range:** 0–100°C

**Recommended application:**

Most commonly used system for all gas springs with G1/8 gas connection.

Not suitable for use with a pressure reservoir due to small internal diameter (reduced flow volume).

**Einsatzempfehlung:**

Meist eingesetztes System für alle Gasdruckfedern mit G1/8 Gasanschluss. Wegen kleinem Innendurchmesser nicht für den Einsatz in Verbindung mit Druckspeichertank geeignet (verminderte Durchflussmenge).

**Raccomandazioni per l'impiego:**

Si tratta del sistema più frequentemente impiegato per le molle a gas con foro di carica filettato G1/8. A causa del minimo diametro interno non idoneo all'utilizzo con accumulatore a serbatoio (ridotta portata).

## (GB) INSTRUCTIONS FOR HOSE ASSEMBLY

Never exceed the maximum pressures and temperatures for the hoses. Ensure that all hoses and adaptors are perfectly clean prior to assembly. The sheathing of the hoses must be perforated so that they can be used for pressurised gas. Follow the instructions below to ensure functionality and maximum service life for the hose connection:

## (D) ANLEITUNG FÜR DIE SCHLAUCHMONTAGE

Nie die für Druck und Temperatur der Schläuche angegebenen Höchst erte überschreiten. Vor der Montage ist für die einwandfreie Sauberkeit aller Schläuche und Adapter zu sorgen. Die Ummantelung der Schläuche muss perforiert sein, damit sie für unter Druck stehendes Gas verwendet werden können.Um die Funktionsfähigkeit sicherzustellen und die Lebensdauer der Schlauchleitungen nicht durch zusätzliche Beanspruchung zu verkürzen, sind nachfolgende Anforderungen zu erfüllen.

## (I) ISTRUZIONI PER ASSEMBLAGGIO IMPIANTO

Non superare, in nessun caso, le indicazioni di massima temperatura e pressione indicate per il tubo flessibile in questione. Prima del montaggio verificare la perfetta pulizia di tutti i tubi e di tutta la raccorderia di connessione e di adattamento.La guaina di rivestimento dei tubi flessibili deve essere perforata e adatta all'alta pressione del gas. Allo scopo di assicurare la funzionalità dei circuiti idraulici e non pregiudicare la durata utile ,saseguire le informazione qui di seguito esposte:

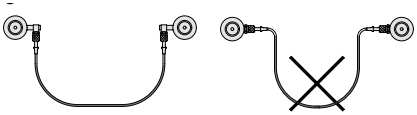
(1) Select a hose length to provide a certain amount of play.



(2) The longitudinal marking on the hose must not be twisted during assembly.



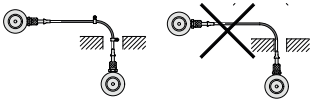
(3) Use only hose fittings which prevent kinks forming in the hose.



(4) Any bends in the hose must always have the recommended minimum radius, as detailed in the catalogue.



(4) The hose must be connected correctly to avoid mechanical damage.



Refer to DIN 20066 for further details on installing hose connections.

**Attention!** Any modifications whatsoever to the product are prohibited.

## CONNECTOR SYSTEM EXAMPLE

### (GB) GROUP SERIES CONNECTION

**FUNCTION:** The springs are interconnected and there is just one test line to the control fitting.

**NOTE:** When installing gas springs always remove the valve from the gas spring.

### (D) BATTERIE-REIHENANSCHLUSS

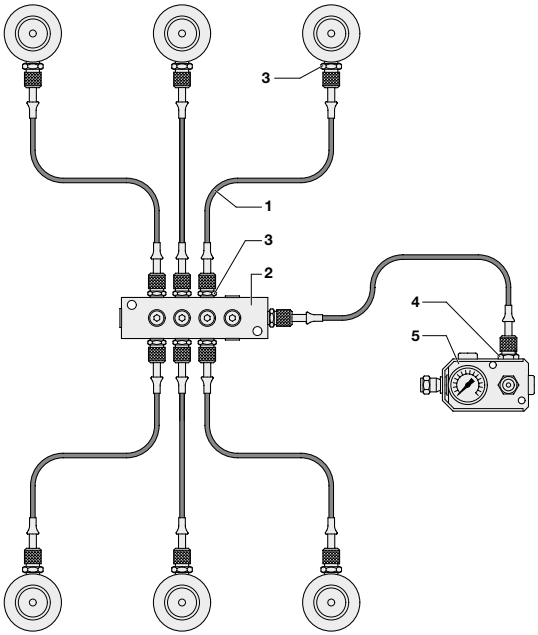
**FUNKTION:** Die Federn werden miteinander verbunden und mit nur einer Prüfleitung an die Kontrollarmatur angeschlossen.

**HINWEIS**: Bei Verbundanordnung der Gasdruckfedern Ventil aus den GF entnehmen!

### (I) CONNESSIONE IN SERIE

**FUNZIONAMENTO:**
Le molle vengono collegate fra di loro e, tutte assieme, al complesso di controllo per mezzo di un unico tubo flessibile di controllo.

**NOTE:** Nelle connessioni a rete di molle multiple è necessario smontare la valvola da ogni singola molla a gas.




| ITEM No. | DESCRIPTION | Q.TY | ORDER No. |
|---|---|---|---|
| 1 | Gauging hose | 7 | G03.12.XXXX |
| 2 | Distributor | 1 | G03.11.0011 |
| 3 | Gauging Coupling | 13 | G03.11.000X |
| 4 | Gauging Coupling | 1 | G03.11.000X |
| 5 | Control fitting | 1 | G03.50.000X |

## CONNECTOR SYSTEM EXAMPLE

### (GB) GROUP SERIES CONNECTION

**FUNCTION:** The springs are interconnected and there is just one test line to the control fitting.

**NOTE:** When installing gas springs always remove the valve from the gas spring.

### (D) BATTERIE-REIHENANSCHLUSS

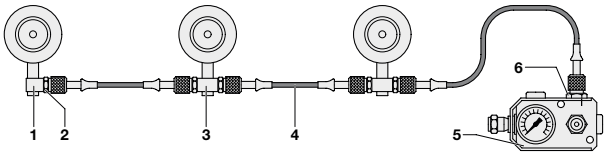
**FUNKTION:** Die Federn werden miteinander verbunden und mit nur einer Prüfleitung an die Kontrollarmatur angeschlossen.

**HINWEIS**: Bei Verbundanordnung der Gasdruckfedern Ventil aus den GF entnehmen!

### (I) CONNESSIONE IN SERIE

**FUNZIONAMENTO:**
Le molle vengono collegate fra di loro e, tutte assieme, al complesso di controllo per mezzo di un unico tubo flessibile di controllo.

**NOTE:** Nelle connessioni a rete di molle multiple è necessario smontare la valvola da ogni singola molla a gas.




| ITEM No. | DESCRIPTION | Q.TY | ORDER No. |
|---|---|---|---|
| 1 | Simple adaptor | 1 | G03.11.0008 (9) |
| 2 | Gauging Coupling | 5 | G03.11.0003 |
| 3 | Multiple adapter | 2 | G031.11.0006 (7) |
| 4 | Gauging hose | 3 | G03.12.XXXX |
| 5 | Control fitting | 1 | G03.50.000X |
| 6 | Gauging Coupling | 1 | G03.11.000X |

## CONNECTOR SYSTEM EXAMPLE

### (GB) INDEPENDENT TEST CONNECTION

**FUNCTION:** The springs work independently and have a gauging coupling with valve. If required the springs can be tested and pressure adjusted individually. A control fitting is used for the purpose.

**NOTE:** When installing gas springs always remove the valve from the gas spring.

### (D) AUTONOM-PRUFANSCHLUSS

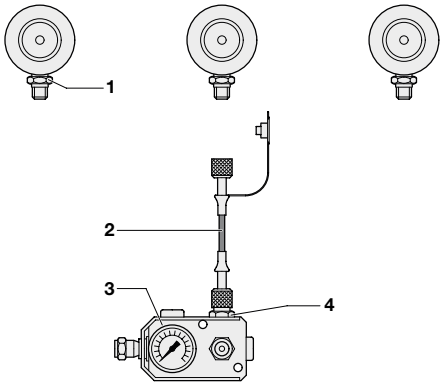
**FUNKTION:** Die Federn arbeiten autonom und sind mit einer Messkupplung mit Ventileinsatz ausgerüstet.

**HINWEIS:** Bei Verbundanordnung der Gasdruckfedern Ventil aus den GF entnehmen!

### (I) CONNESSIONE INDIPENDENTE

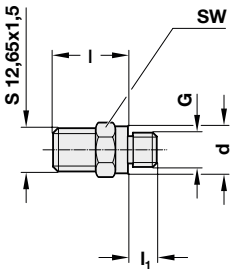
**FUNZIONAMENTO:** Le molle lavorano in maniera autonoma e sono equipaggiate ciascuna con un raccordo di misura (G03.11.0001) provvisto di valvola.

**NOTE:** Nelle connessioni con raccordo con valvola è necessario smontare la valvola dalla molla a gas




| ITEM No. | DESCRIPTION | Q.TY | ORDER No. |
|---|---|---|---|
| 1 | Gauging Coupling | 3 | G03.11.000X |
| 2 | Gauging hose | 1 | G03.12.XXXX |
| 3 | Control fitting | 1 | G03.50.000X |
| 4 | Gauging Coupling | 1 | G03.11.000X |

## GAUGING COUPLING
## MESSKUKUPPLUNG
## RACCORDO




STOCK 3D WEB

**FOR CONNECTION TO GAS SPRINGS**

| | |
|---|---|
| G03.11.0001 with valve | G03.11.0003 without valve |

**FOR CONNECTION TO CONTROL PANEL**

| | |
|---|---|
| G03.11.0002 with valve | G03.11.0004 with valve |

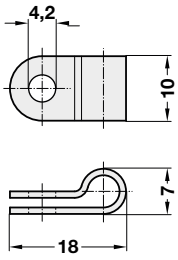
| ORDER EXAMPLE | Art. | Connection type: 1/8 with valve |
|---|---|---|
| | G03.11 | 0001 |

| OMCR CODE | G | d | SW | l | $l_1$ |
|---|---|---|---|---|---|
| G03.11.0001 | G 1/8 | 14 | 14 | 22 | 8 |
| G03.11.0002 | G 1/4 | 19 | 19 | 21 | 10 |
| G03.11.0003 | G 1/8 | 14 | 14 | 22 | 8 |
| G03.11.0004 | G 1/4 | 19 | 19 | 21 | 10 |

**NOTE:** The measuring coupling with valve is used for standard assembly layouts.

G03.11

## HOSE CLAMP
## SCHLAUCHSCHELL
## FASCETTA PER TUBO




STOCK 3D WEB

| ORDER EXAMPLE | Art. | HOSE CLUMP |
|---|---|---|
| | G03.11 | 0005 |

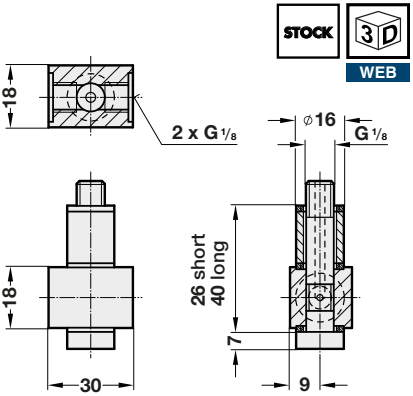
| OMCR CODE | HOSE DIAMETER |
|---|---|
| G03.11.0005 | 5 |

Hose clamp for gauging hose Ø 5mm

**NOTE:** Supplied without screws

# G03.11

## DUAL ADAPTER G1/8
## ZWEIFACH ADAPTER G1/8
## RACCORDO DOPPIO G1/8

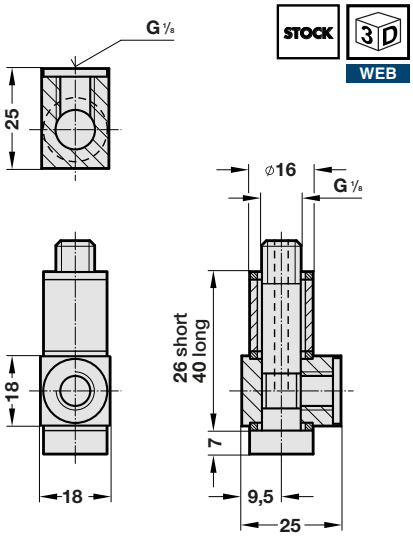



| ORDER EXAMPLE | Art. | Connection type: SHORT |
|---|---|---|
| | G03.11 | 0007 |

| OMCR CODE | TYPE |
|---|---|
| G03.11.0006 | LONG |
| G03.11.0007 | SHORT |

# G03.11

## GAUGING COUPLING G1/8
## EINFACH ADAPTER G1/8
## RACCORDO SINGOLO G1/8

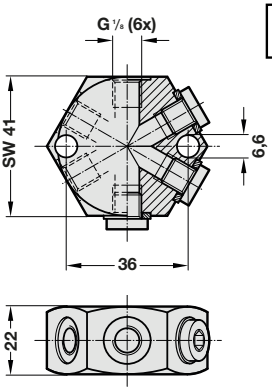



| ORDER EXAMPLE | Art. | Connection type: SHORT |
|---|---|---|
| | G03.11 | 0009 |

| OMCR CODE | TYPE |
|---|---|
| G03.11.0008 | LONG |
| G03.11.0009 | SHORT |

# G03.11

## DISTRIBUTOR BLOCK G1/8, 6 PORTS
## VERTEILERBLOCK G1/8, 6 ANSCHLUSSE
## BLOCCHETTO DISTRIBUZIONE G1/8 6 ATTACCHI




STOCK 3D WEB

| ORDER EXAMPLE | Art. | Connection type: 6 SLOTS |
|---|---|---|
| | G03.11 | 0010 |

| OMCR CODE | PORTS |
|---|---|
| G03.11.0010 | 6 |

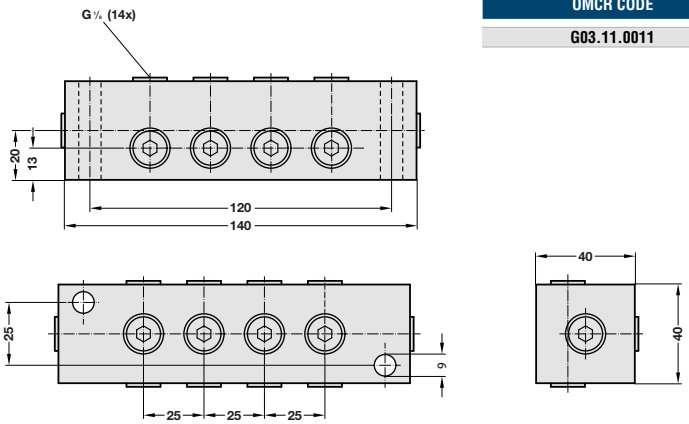
# G03.11

## DISTRIBUTOR BLOCK G1/8, 14 PORTS
## VERTEILERBLOCK G1/8, 14 ANSCHLUSSE
## BLOCCHETTO DISTRIBUZIONE G1/8 14 ATTACCHI

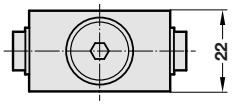
STOCK 3D WEB

| ORDER EXAMPLE | Art. | Connection type: 14 SLOTS |
|---|---|---|
| | G03.11 | 0011 |

| OMCR CODE | PORTS |
|---|---|
| G03.11.0011 | 14 |



# DISTRIBUTOR BLOCK G1/8, 4 PORTS
# VERTEILERBLOCK G1/8, 4 ANSCHLUSSE
# BLOCCHETTO DISTRIBUZIONE G1/8 4 ATTACCHI



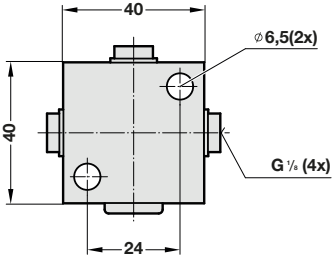

STOCK

3D

WEB

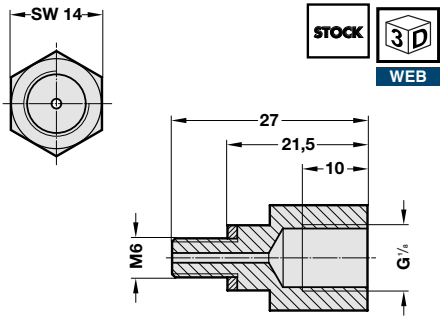
| ORDER EXAMPLE | Art. | Connection type: 4 SLOTS |
|---|---|---|
| | G03.11 | 0012 |

| OMCR CODE | PORTS |
|---|---|
| G03.11.0012 | 4 |



# G03.11

## CONNECTION FITTING M6 - G1/8
## ANSCHLUSSADAPTER M6 - G1/8
## RACCORDO DA M6 A G1/8

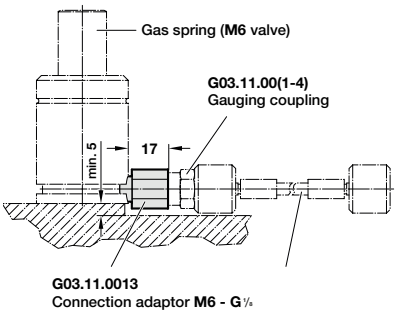



STOCK 3D WEB

| ORDER EXAMPLE | Art. | Connection FITTING |
|---|---|---|
| | G03.11 | 0013 |

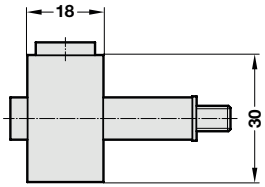
| OMCR CODE |
|---|
| G03.11.0013 |

### MOUNTING EXAMPLES :




# G03.11

## DUAL ADAPTER M6
## ZWEIFACH ADAPTER M6
## RACCORDO DOPPIO M6

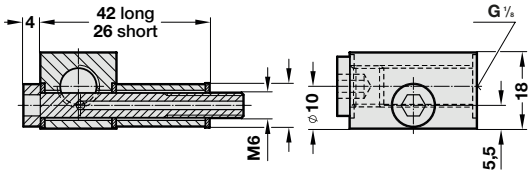



STOCK 3D WEB

| ORDER EXAMPLE | Art. | Connection type: SHORT |
|---|---|---|
| | G03.11 | 0015 |

| OMCR CODE | TYPE |
|---|---|
| G03.11.0014 | LONG |
| G03.11.0015 | SHORT |

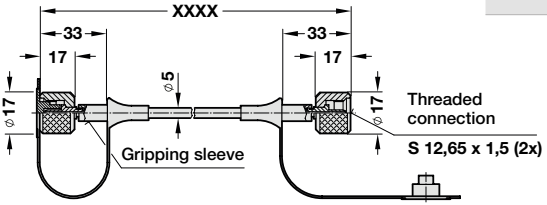
**NOTE:** For connection of gas springs with M6 filling connection



# G03.12

## GAUGING HOSE BOTH ENDS STRAIGHT
## MESSCHLAUCH BEIDSEITIG GERADE
## TUBO CONNESSIONE 0° - 0°

STOCK 3D WEB




| ORDER EXAMPLE | Art. | Connection lenght = 350 mm |
|---|---|---|
| | G03.12 | 0350 |

| OMCR CODE | LENGHT |
|---|---|
| G03.12. | XXXX |

**ORDER EXAMPLE**

Shortest factory length: 90 mm
**XXXX**: Lenght in mm
Minimum bending radius: R20

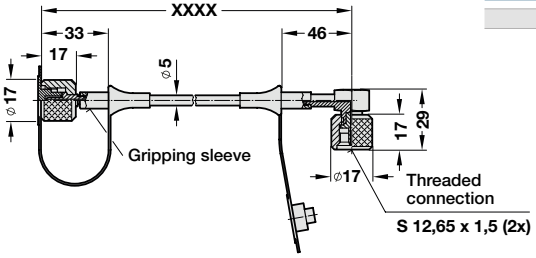
*Measuring hose available in the following lengths:

5 mm step range < 1000 mm
10 mm step range > 1000 mm
Max lenght :3000mm

# G03.13

## GAUGING HOSE ONE END STRAIGHT ONE 90°
## MESSCHLAUCH EIDSEITIG GERADE / 90°
## TUBO CONNESSIONE 0° - 90°

STOCK 3D WEB




| ORDER EXAMPLE | Art. | Connection lenght = 350 mm |
|---|---|---|
| | G03.13 | 0350 |

| OMCR CODE | LENGHT |
|---|---|
| G03.13. | XXXX |

**ORDER EXAMPLE**

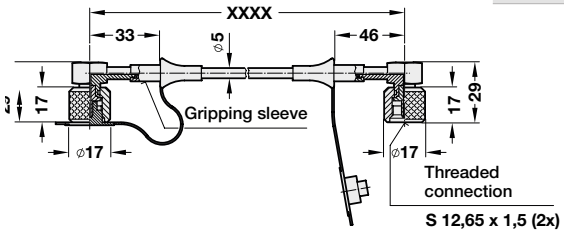
Shortest factory length: 90 mm
**XXXX**: Lenght in mm
Minimum bending radius: R20

*Measuring hose available in the following lengths:

5 mm step range < 1000 mm
10 mm step range > 1000 mm
Max lenght :3000mm

# GAUGING HOSE BOTH ENDS 90°
# MESSCHLAUCH BEIDSEITIG 90°
# TUBO CONNESSIONE 90° - 90°

STOCK 3D WEB




| ORDER EXAMPLE | Art. | Connection lenght = 350 mm |
|---|---|---|
| | G03.14 | 0350 |

| OMCR CODE | LENGHT |
|---|---|
| G03.14. | XXXX |

**ORDER EXAMPLE**

Shortest factory length: 90 mm
**XXXX**: Lenght in mm
Minimum bending radius: R20

*Measuring hose available in the following lengths:

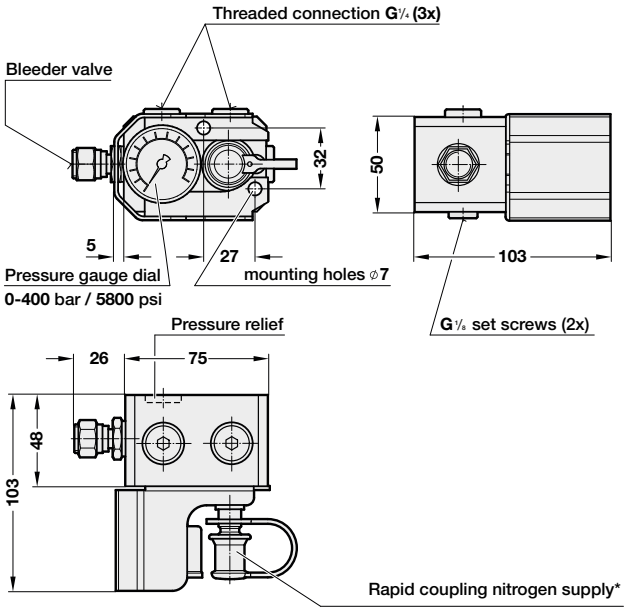
5 mm step range < 1000 mm
10 mm step range > 1000 mm
Max lenght :3000mm

# CONTROL FITTING
# KONTROLLARMATUR
# PANNELLO DI CONTROLLO

STOCK 3D WEB

| ORDER EXAMPLE | Art. | Control Panel Model |
|---|---|---|
| | G03.50 | 0003 |

| OMCR CODE | TYPE |
|---|---|
| G03.50.0001 | 1 |
| G03.50.0002 | 2 |
| G03.50.0003 | 3 |
| G03.50.0004 | 4 |



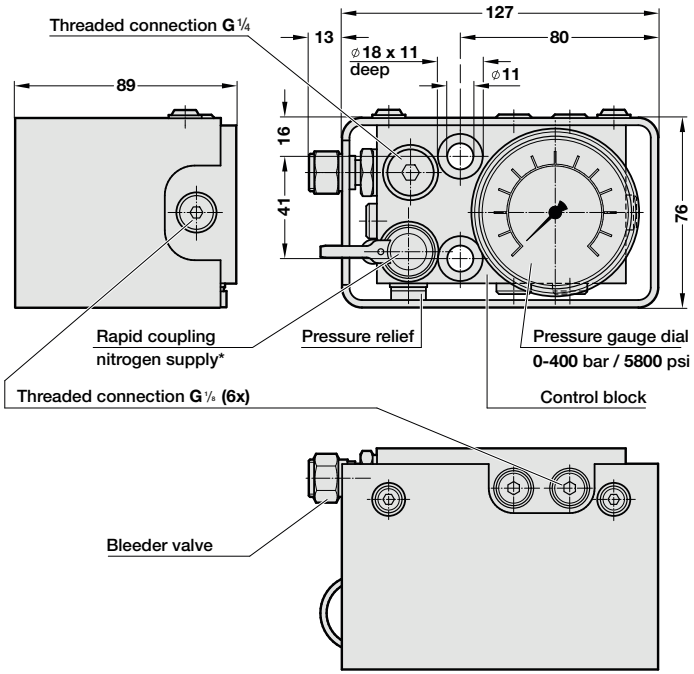

| ITEM No. | DESCRIPTION |
|---|---|
| 1 | without pressure switch |
| | ohne Druckschalter |
| | senza interruttore pressostatico |
| 2 | with pressure switch |
| | mit Druckschalter |
| | con interruttore pressostatico |
| 3 | without pressure switch and with pressure relief |
| | ohne Druckschalter und mit Berstsicherung |
| | senza interruttore pressostatico e con sicurezza anti-scoppio |
| 4 | with pressure switch, with pressure relief |
| | mit Druckschalter und mit Berstsicherung |
| | con interruttore pressostatico e con sicurezza anti-scoppio |

# CONTROL FITTING WITHOUT PRESSURE SWITCH WITH PRESSURE RELIEF
# KONTROLLARMATUR OHNE DRUCKSHALTER MIT BERSTSICHERUNG
# PANNELLO DI CONTROLLOSENZA INTERRUTTORE PRESSOSTATICO CON ANTISCOPPIO

STOCK 3D WEB

| ORDER EXAMPLE | Art. | Control Panel Model |
|---|---|---|
| | G03.50 | 0005 |

| OMCR CODE |
|---|
| G03.50.0005 |




**DESCRIPTION**: The control fitting is used to constantly monitor the filling pressure of one or more gas springs.

The control fitting is equipped with rapid coupling for nitrogen supply and a bleeder valve. There are three G1/8 ports for simultaneous pressure checking at the control fitting. Measuring range from 0 - 400 bar / 5800 psi.


Cam Unit
Gas Springs
Wire Springs
Eyebolts
Elastomers
OMCR
STANDARD DIE COMPONENTS
PRODUCTS
CHW

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