



Cam Units Schieber Unità a camme

OMCR®
STANDARD DIE COMPONENTS



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 traciatura 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



DLD

HEAVY DUTY
SCHWERLAST
LAVORI PESANTI

LIGHT DUTY
LEICHTE
LAVORI LEGGERI

CHD

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESA



(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 SOSPESA



(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 SOSPESA

**CLB**

AERIAL CAM UNITS
OBEN HÄNGENDER SCHIEBER
UNITÀ A CAMME SOSPESA



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 **Arbeitswinkel 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**.

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 SOSPESA



(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 SOSPESA



(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 SOSPESA



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 SOSPESA



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 SOSPESA



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.



ROLLER CAM UNITS
ROLLENSCHIEBER
UNITÀ A CAMME A RULLO



(B) 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

**DLD**

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.

(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.

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 610 or according with customer specifications.

3D CAD data must be received at least 10 days in advance on the delivery date.

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 610 oder gemäß Kundenspezifikation mitgeteilt.

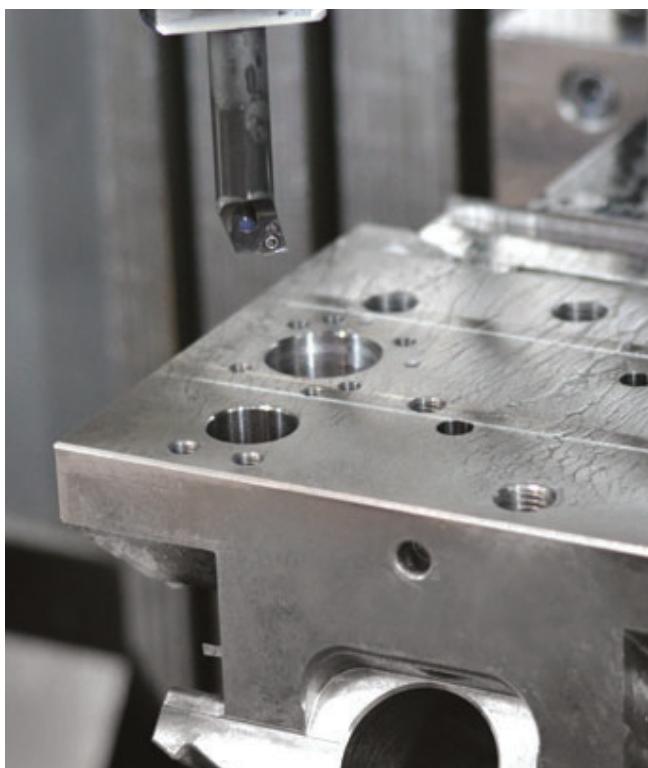
Die 3D Daten müssen mindestens 10 Arbeitstage vor dem gewünschten Liefertermin bei OMCR eintreffen.

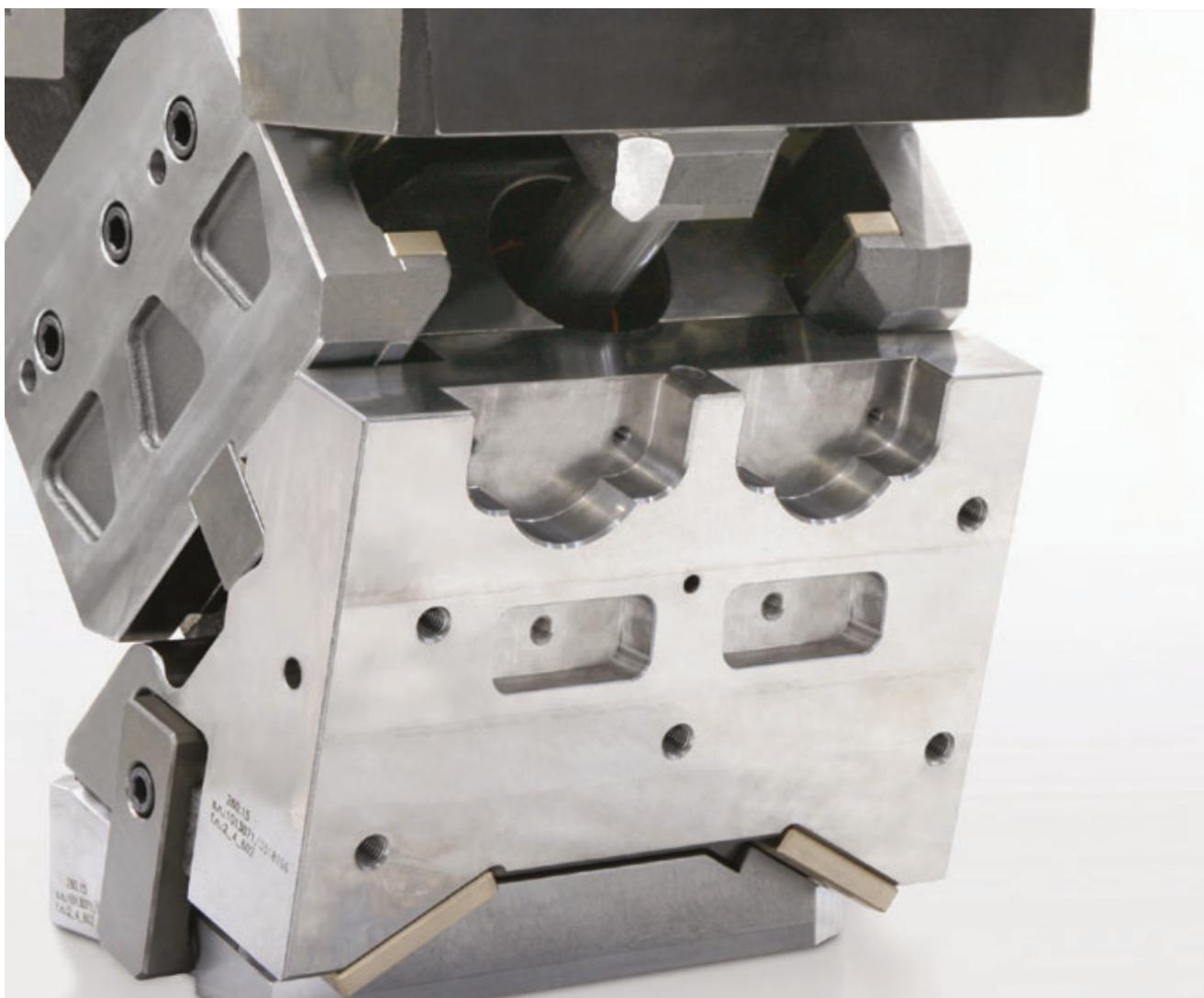
PERSONALIZZAZIONI SU SUPERFICI DI LAVORO DELLE UNITÀ CAMME

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 610 o secondo specifica del cliente.

I dati cad 3D devono pervenire con almeno 10 giorni di anticipo sulla data di consegna.





Cam Units

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.

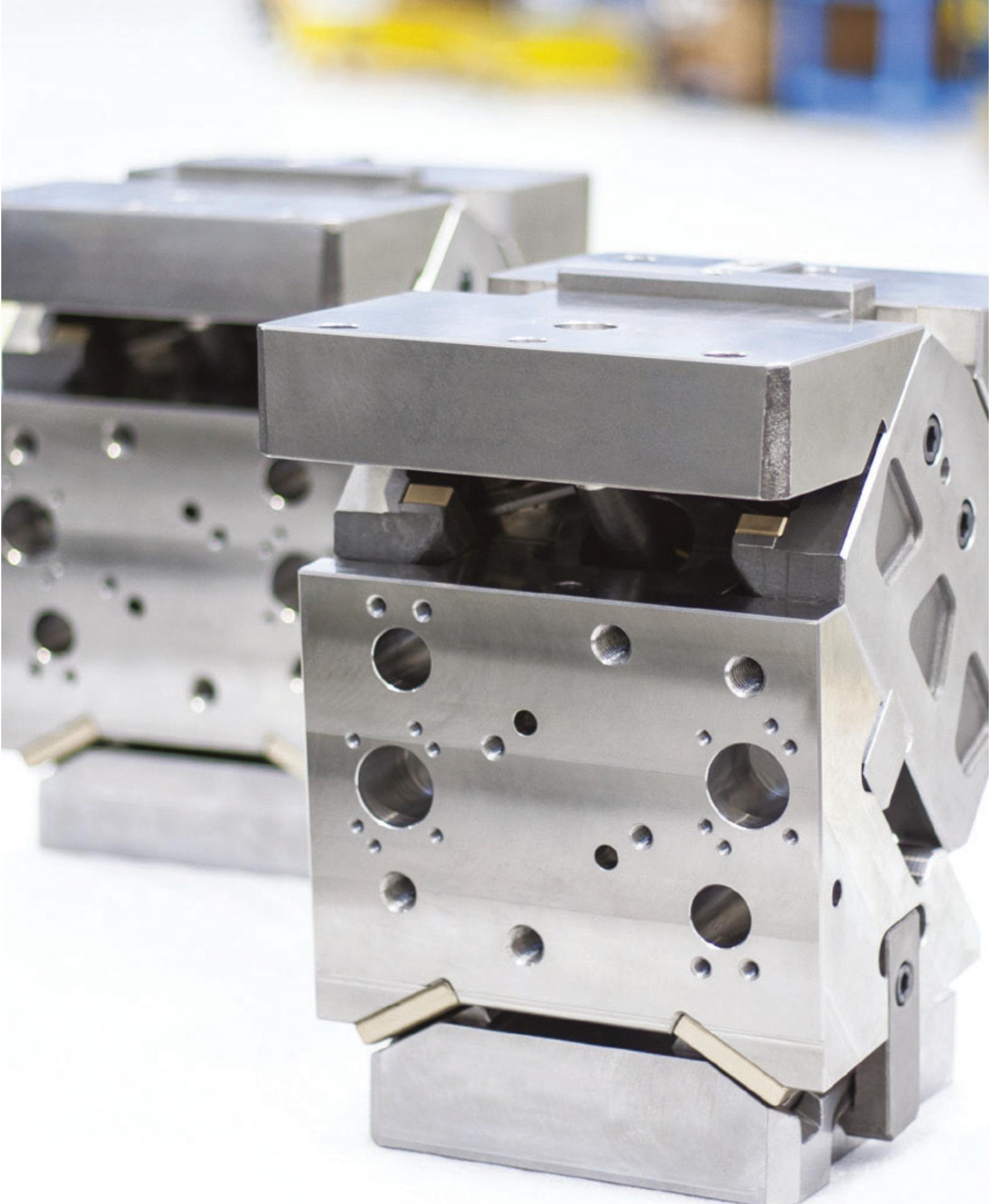


High precision in additional workings realization.
Hohe Präzision bei der Durchführung von zusätzlichen Bearbeitungen
Elevata precisione di realizzazione delle lavorazioni aggiuntive.



Reduction of processing costs.
Reduzierung der Bearbeitungskosten
Riduzione dei costi di lavorazione.

Machining type Bearbeitungstyp Tipologie di lavorazioni	Comment Bemerkung Commenti	CATIA V5 RGB values - RGB-Werte - Colori RGB			
		Colour Farbe Colore	Red Rot Rosso	Green Grün Verde	Blue Blau Blu
Areas dependent to method plan Methodenplanabhängige Bereiche Arearie dipendenti dal piano metodo	All machining which is not performed according to solid model, but according to separate data record Alle Bearbeitungen, die nicht nach Solid-Modell, sondern nach gesondertem Datensatz durchgeführt werden Lavorazioni che non vengono eseguite secondo un modello 3D, ma secondo dati registrati separatamente	Olive green Olivgrün Oliva	175	255	175
Smoothing / finishing Schlichten Levigatura / Finitura	Fine machining (for further details, see work instructions) Feinbearbeitung (Zusatzangaben siehe Arbeitsanweisungen) Lavorazione di finitura (per ulteriori dettagli consultare le istruzioni supplementari di lavoro)	Pink Rosa Rosa	255	175	175
Roughing Schruppen Sgrossatura	Rough machining Grobbearbeitung Lavorazione di sgrossatura	Red-Brown Rotbraun Marrone	095	000	000
Fitting bore H11 Passbohrung H11 Forature H11	Also special milling processing Auch Sonderfräsbearbeitung Anche lavorazioni speciali di fresatura	Blue Blau Blu	095	095	175
Fitting bore H8 Passbohrung H8 Forature H8	Also special milling processing Auch Sonderfräsbearbeitung Anche lavorazioni speciali di fresatura	Purple Lila Porpora	095	000	095
Fitting bore H7 Passbohrung H7 Forature H7	Also special milling processing Auch Sonderfräsbearbeitung Anche lavorazioni speciali di fresatura	Blue Blau Blu	000	000	255
Fitting bore H6 Passbohrung H6 Forature H6	Also special milling processing Auch Sonderfräsbearbeitung Anche lavorazioni speciali di fresatura	Dark Blue Dunkelblau Blu scuro	000	095	175
Threads Gewinde Filettatura	Metric right thread according to DIN/ISO Metrisch Rechtsgewinde nach DIN/ISO Filettatura metrica destra secondo DIN/ISO	Yellow Gelb Giallo	255	255	000
Fine threads Feingewinde Filettatura fine	Metric fine thread (right) according to DIN/ISO Metrisch Feingewinde (rechts) nach DIN/ISO Filettatura metrica fine destra secondo DIN/ISO	Orange Orange Arancione	255	175	000
Spiral lock / special thread Spiralock / Spezialgewinde Spiralock / filettatura speciale	All other special threads Alle sonstigen Spezialgewinde Tutte le altre filettature speciali	Orange Orange Arancione	255	095	000
Special bore / stepped bore Sonderbohrung / Stufenbohrung Foratura speciale / Foratura a gradini	Complex bores, combination of bores Komplexe Bohrungen, Kombinationen von Bohrungen Forature complesse, combinazioni di forature	Magenta Magenta Magenta	255	000	255
Free bore / simple bore Freibohrung / einfache Bohrung Foratura libera / foratura semplice	Through holes, etc., other countersinks Durchgangslöcher usw., sonstige Ansenkungen Fori passanti ed altre forature	Cyan Cyan Ciano	000	175	175
Change areas Änderungsbereiche Campi di modifica	Sphere or Solid with transparency 192 Sphäre oder Solid mit Transparenz 192 Sfera o Solido con trasparenza 192	Light Blue HellBlau Azzurro	000	127	255
Assembly bores ZSB-Bohrungen Forature di assemblaggio	Assembly features Zusammenbau-Features Caratteristiche di assemblaggio	White Weiß Bianco	255	255	255



GB SPECIAL CAM UNIT

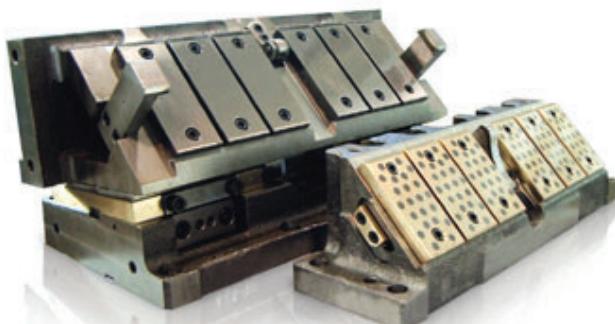
Thanks to the acquired experience in the manufacture of its wide range of cam units, **OMCR** can offer special or multiple cam units to meet every customer's particular production needs. **Moreover, it is possible to ask for additional workings on normalized cam units.** The images on this Page show some examples of a variety of solutions achievable.

D SONDERSCHEIBER

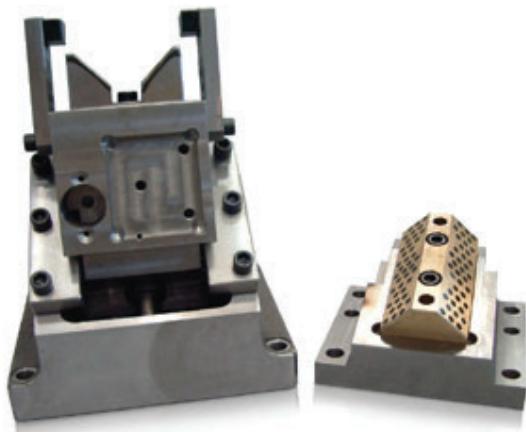
OMCR konstruiert und produziert Dank der Erfahrung bei der Herstellung seiner großen Produktpalette an Schiebern auch Sonderschieber nach den spezifischen Projektanforderungen des Kunden, die spezielle Anforderungen bei der Produktion berücksichtigen. **Auch zusätzliche Bearbeitungen an Normschiebern 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



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.

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.

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.



www.omcr.it



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.**

Cam Series	Code	Type	0	1	2	3	4	W _x	W _z	F _{x0}	F _{y0}	Price	W ₀	Weight
Stål	CH0100.25.0	AERAL	20	32.96	80	10	80	149	1.58	-	-	€ 891.00	5	32
Stål	CH0100.25.1	AERAL	20	32.96	80	10	80	146	-	1.25	-	€ 766.00	3	32
Stål	CH4101.30	AERAL	20	41.34	80	10	80	499	10.50	-	-	€ 1110.00	10	25.0
Stål	CH4101.20.0	AERAL	20	27.25	70	10	70	90	1.74	-	-	€ 1095.00	30	14.1
Stål	CH4101.20.1	AERAL	20	27.25	70	10	70	90	-	0.98	-	€ 1047.00	30	14.1
Stål	CH4101.20.2	AERAL	20	46.58	80	10	80	153	2.08	-	-	€ 1311.00	30	26
Stål	CH4101.20.3	AERAL	20	46.58	80	10	80	153	-	0.97	-	€ 1430.00	34	26
Stål	CH4101.20.4	AERAL	20	27.25	80	10	80	154	1.67	-	-	€ 1167.00	30	26.1
Stål	CL4101.20	AERAL	20	46.58	80	10	80	-	-	1.09	-	€ 1314.5	30	25.3
Stål	CL4101.20	AERAL	20	46.58	80	10	80	916	-	2.47	-	€ 833.00	30	25.3

www.omcr.it



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.

Aerial Cam Units Oben Hängender Schieber Unità a Camme Sospese



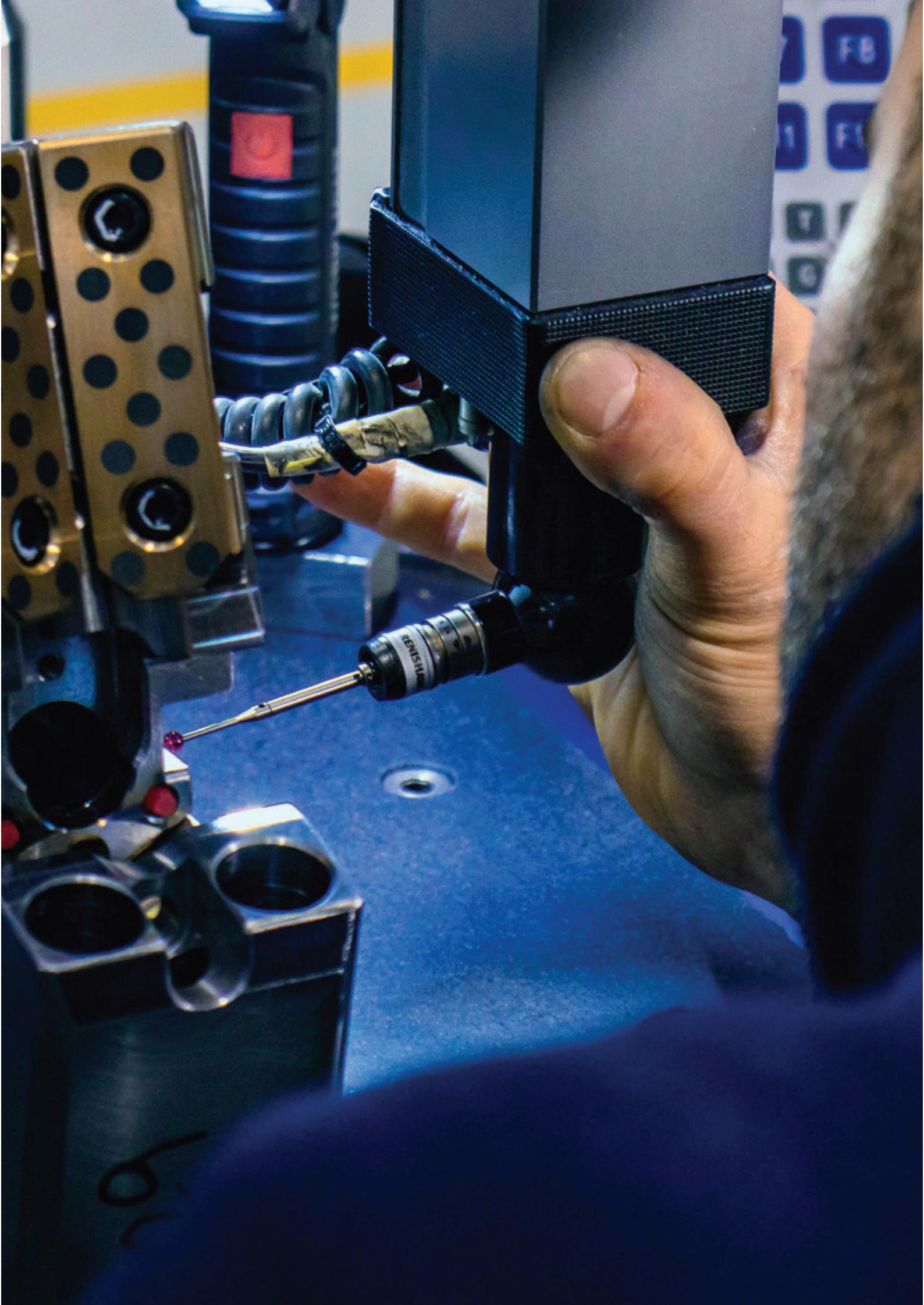
SLIDER WIDTH (mm)	CHD	CHV	CHW	CLB
50÷52	CHD050 pag. 628 	CHV050 pag. 666 		
60÷65	CHD065 pag. 632 	CHV060 pag. 670 	CHW065 pag. 720 	
80÷85	CHD080 pag. 636 	CHV085 pag. 674 	CHW085 pag. 724 	
90÷100	CHD100 pag. 640 		CHW090 pag. 728 	
110		CHV110 pag. 676 	CHW110 pag. 732 	
150	CHD150 pag. 644 	CHV150 pag. 680 		
180	CHD180 pag. 648 	CHV180 pag. 684 		

Aerial Cam Units
Oben Hängender Schieber
Unità a Camme Sospese

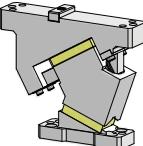
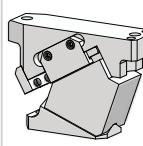
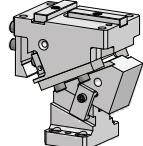
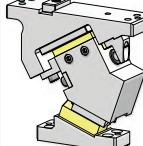
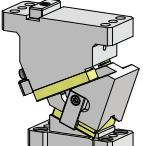
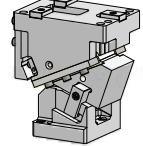
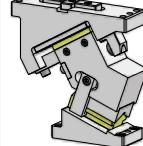
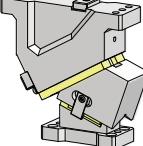
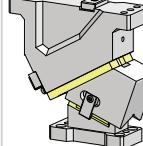
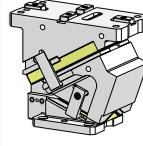
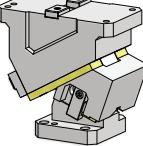
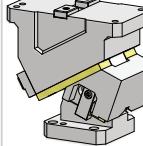
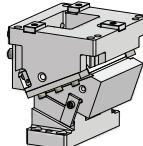
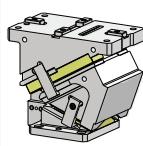
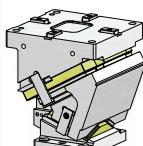
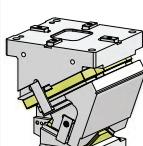


SLIDER WIDTH (mm)	CHD	CHV	CHW	CLB
200÷220	CHD200 pag. 652 Work Angle 0÷65° Work Force 396 kN	CHV220 pag. 670 Work Angle 0÷75° Work Force 635÷732 kN		CLB200 pag. 738 Work Angle 0÷60° Work Force 302 kN
250÷260	CHD250 pag. 656 Work Angle 0÷65° Work Force 645 kN	CHV260 pag. 694 Work Angle 0÷75° Work Force 536÷767 kN		
300÷330	CHD300 pag. 660 Work Angle 0÷65° Work Force 645 kN	CHV330 pag. 698 Work Angle 0÷75° Work Force 1006÷1020 kN		CLB300 pag. 742 Work Angle 0÷60° Work Force 411 kN
400		CHV400 pag. 702 Work Angle 0÷75° Work Force 1052÷1055 kN		CLB400 pag. 746 Work Angle 0÷60° Work Force 526 kN
500		CHV500 pag. 706 Work Angle 0÷75° Work Force 1155 kN		CLB500 pag. 750 Work Angle 0÷60° Work Force 743 kN
600		CHV600 pag. 712 Work Angle 0÷75° Work Force 1202 kN		CLB600 pag. 754 Work Angle 0÷60° Work Force 865 kN

Cam Units



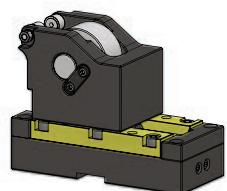
Aerial Cam Units
Oben Hängender Schieber
Unità a Camme Sospese

SLIDER WIDTH (mm)	CHK	CHR	CLC	CLD/CLF
50÷52			CLC050 pag. 780  Work Angle 0÷70° Work Force 41 kN	CLD052 pag. 818  Work Angle 0÷80° Work Force 31 kN
65÷70	CHK065 pag. 760  Work Angle 0÷70° Work Force 58 kN	CHR070 pag. 770  Work Angle 0÷60° Work Force 90 kN	CLC065 pag. 804  Work Angle 0÷70° Work Force 42 kN	
80÷100	CHK100 pag. 764  Work Angle 0÷70° Work Force 96 kN	CHR080 pag. 778  Work Angle 0÷60° Work Force 153 kN	CLC080 pag. 808  Work Angle 0÷70° Work Force 83 kN	CLF080 pag. 824  Work Angle 0÷70° Work Force 116 kN
150÷165		CHR165 pag. 782  Work Angle 0÷60° Work Force 340 kN	CLC150 pag. 812  Work Angle 0÷70° Work Force 140 kN	CLF150 pag. 828  Work Angle 0÷70° Work Force 192 kN
200	CHK200 pag. 768  Work Angle 0÷70° Work Force 231 kN	CHR200 pag. 786  Work Angle 0÷60° Work Force 408 kN		
300		CHR300 pag. 790  Work Angle 0÷60° Work Force 521 kN		
400		CHR400 pag. 794  Work Angle 0÷60° Work Force 521 kN		

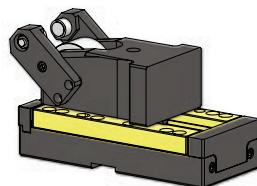
Cam Units

Roller Cam Units**Rollenschieber****Unità a Camme a Rullo**SLIDER WIDTH
(mm)**CRX**

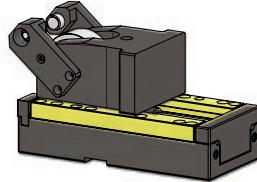
78

CRX01 pag. 834Work Angle
-15÷50°Work Force
4,4 kN

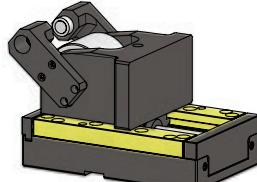
98

CRX03 pag. 840Work Angle
-15÷50°Work Force
76 kN

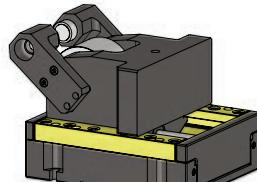
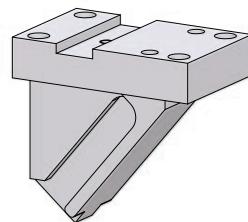
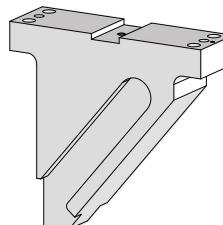
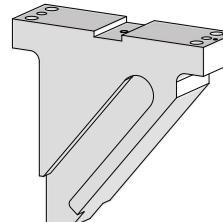
118

CRX05 pag. 846Work Angle
-15÷50°Work Force
162 kN

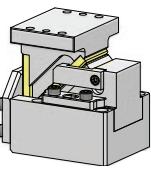
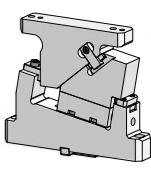
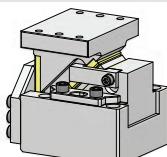
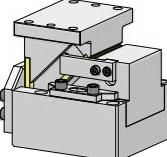
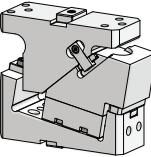
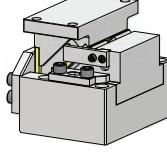
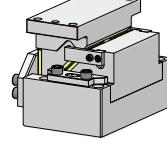
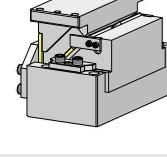
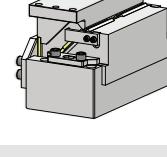
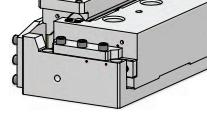
170

CRX15 pag. 852Work Angle
-15÷50°Work Force
166 kN

240

CRX20 pag. 858Work Angle
-15÷50°Work Force
258 kN**Roller Cam Driver****Treiber für rollenschieber****Cuneo per camme a rullo**ROLLER CAM
MODEL**DCRX****DCRX0100** pag. 864Work Angle
-15÷50°CRX01.030
CRX01.050**DCRX0305** pag. 866Work Angle
-15÷50°CRX03.050
CRX03.080
CRX03.100CRX05.050
CRX05.080
CRX05.100**DCRX1520** pag. 868Work Angle
-15÷50°CRX15.050
CRX15.080
CRX15.100CRX20.050
CRX20.080
CRX20.100

Die Mounted Cam Units
Horizontalschieber
Unità a Camme a Base Stampo

SLIDER WIDTH (mm)	DHC	DLD
52	DHC052 pag. 872  Work Angle 0° Work Force 38 kN	DLD052 pag. 906  Work Angle 0°÷20° Work Force 40 kN
65	DHC065 pag. 876  Work Angle 0°÷20° Work Force 44÷48 kN	
90÷100	DHC100 pag. 880  Work Angle 0°÷20° Work Force 75÷82 kN	DLD090 pag. 910  Work Angle 0°÷20° Work Force 79 kN
150	DHC150 pag. 884  Work Angle 0°÷20° Work Force 120÷127 kN	
200	DHC200 pag. 888  Work Angle 0° Work Force 176 kN	
250	DHC250 pag. 892  Work Angle 0° Work Force 232 kN	
300	DHC300 pag. 896  Work Angle 0° Work Force 272 kN	
400	DHC400 pag. 900  Work Angle 0° Work Force 480 kN	

Cam Units

Order example for replacement Bestellbeispiel für Ersatz Esempio d'ordine per particolari di ricambio

CHD050

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

628

INDEX

CHD050

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

629

INDEX

5

Particular number
1
2
3
4
5

CHD050.65
0512390

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



$$F = (Rm \times Sp \times L)/1000$$

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
TRACIATURA:****F** = Forza di traciatura (kN)**Rm** = Resistenza meccanica lamiera (N/mm²)**Sp** = Spessore lamiera (mm)**L** = Lunghezza profilo di traciatura (mm)**WORK FORCE DISTRIBUTION
EXAMPLE**

W				
88	150	274	150	88
119	202	369	202	119
266	453	464	453	266
204	347	727	347	204
199	339	540	339	199

H

(GB) INFOS TO OBTAIN MAXIMUM PERFORMANCE:

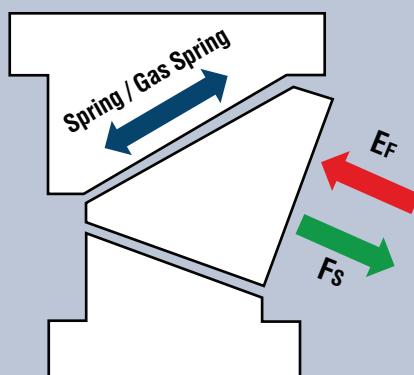
- Fix the Cam Unit to the shoulder (for other applications consult technical info).
- The resultant of the shearing forces should be applied to the central area of the slider and perpendicular to the work surface (for work force diagrams consult the technical info on our website).
- It is recommended 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 traciatura 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.

**EXTRACTION FORCE
DIAGRAM**

(GB) EXTRACTION FORCE CALCULATION

The extraction force **E_F** is the available effective force on the slider in the work direction β .

The required extraction force **E_{FR}** is about 5% of the force needed (F^*) to cut an open profile and 10% of the force needed to cut a closed profile.

E_{FR} ≠ E_F

The gas spring force (**G_F**) operates in the direction of the gas spring.

The extraction force **E_F ≠ G_F**

For **Aerial Cam Units** the force of extraction of the gas spring, in the work direction (**G_{FW}**) is calculated with the formula:

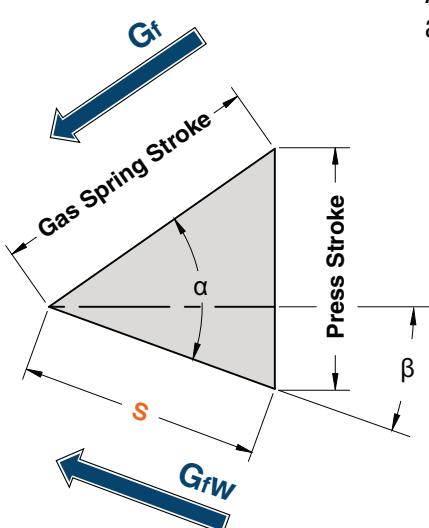
$$\mathbf{G_{FW} = G_F * \cos \alpha}$$

For **Die Mounted Cam Units** and **Roller Cam Units** the gas spring force should be completely regarded as

$$\mathbf{G_{FW} = G_F}$$

NOTE:

If more extraction force is required (**E_{FR}>E_F**), increase **E_F** 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 **E_F** ist die effektiv am Schieber verfügbare Rückzugskraft in Arbeitsrichtung β .

Die benötigte Rückzugskraft **E_{FR}** beträgt ungefähr 5% der notwendigen Arbeitskraft (F^*) zum Stanzen eines offenen Schnittes und bis zu 10% der notwendigen Arbeitskraft zum Stanzen eines geschlossenen Schnittes.

E_{FR} ≠ E_F

Die Gasdruckfederkraft (**G_F**) wirkt in die Hubrichtung der Gasdruckfeder.

Die Rückzugskraft **E_F ≠ G_F**

Für **oben hängende Schieber** wird die Rückzugskraft der Gasdruckfeder in Arbeitsrichtung (**G_{FW}**) mit folgender Formel berechnet:

$$\mathbf{G_{FW} = G_F * \cos \alpha}$$

Für **Schieber am WZ Unterteil** und **Rollenschieber** kann die Kraft der Gasdruckfeder komplett berücksichtigt werden:

$$\mathbf{G_{FW} = G_F}$$

ANMERKUNG:

Wird eine höhere Rückzugskraft benötigt (**E_{FR}>E_F**), muss **E_F** 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 **E_F** è la forza effettiva disponibile sulla slitta nella direzione di lavoro β .

La forza di estrazione richiesta **E_{FR}** 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.

E_{FR} ≠ E_F

La forza della molla a gas (**G_F**) opera nella direzione di corsa della molla a gas.

La forza di estrazione **E_F ≠ G_F**

Per le **Camme Aeree** la forza di estrazione della molla a gas nella direzione di lavoro (**G_{FW}**) è calcolata con la formula:

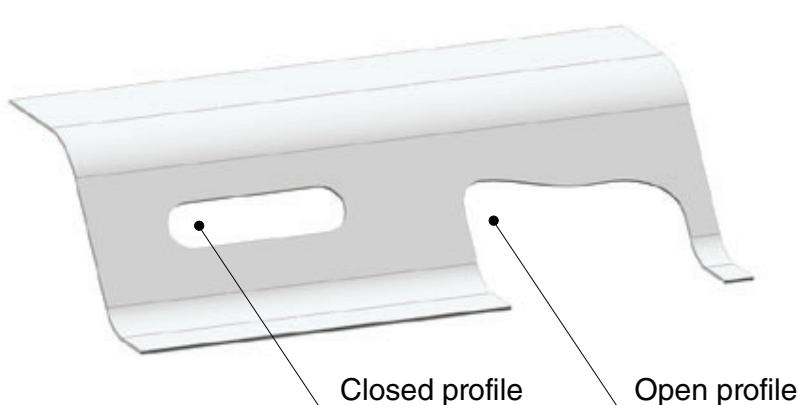
$$\mathbf{G_{FW} = G_F * \cos \alpha}$$

Per le **Camme a Base Stampo** e per le **Camme a Rullo** la forza della molla a gas può essere considerata completamente

$$\mathbf{G_{FW} = G_F}$$

NOTE:

Se è necessaria una maggiore forza di estrazione (**E_{FR}>E_F**), incrementare **E_F** utilizzando elementi elastici o premilamiera davanti alla slitta per facilitare l'estrazione del punzone dalla matrice.





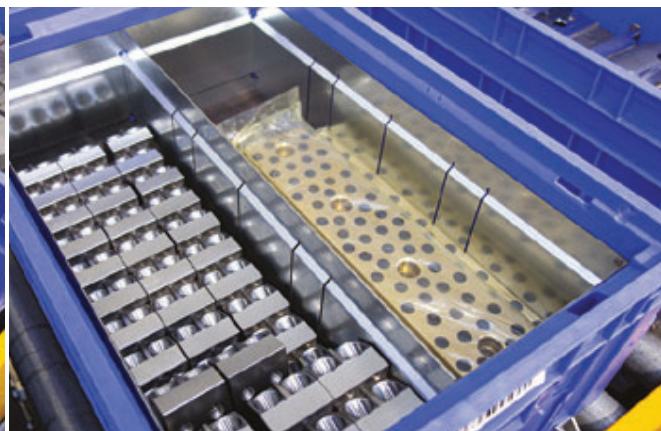
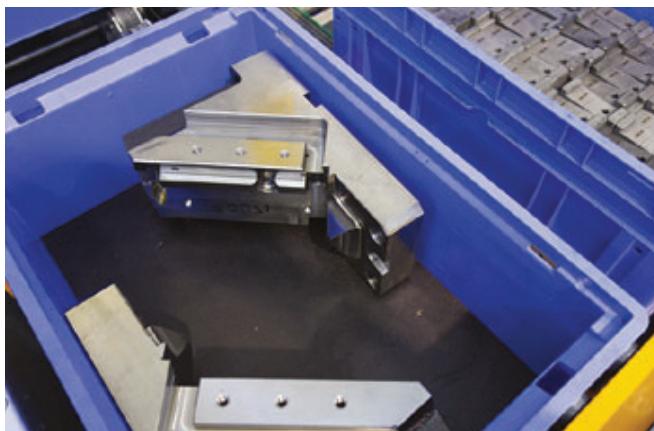
Cam Units CHD Schieber CHD Unità a Camme CHD



OMCR®
STANDARD DIE COMPONENTS



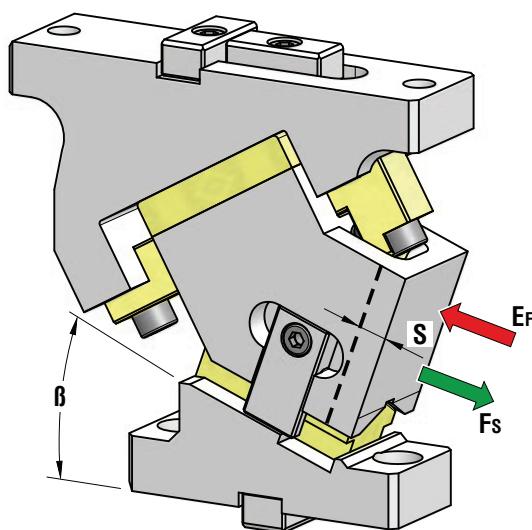
OMCR CODE	Work Angle β	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10^6 cycles (kN)	Extraction Force (kN)			Page number
						Fs	Spring	Gas Spring	
CHD050	0°÷65° (5° steps)	50	180	50x65	60	1,14÷1,31	1,44÷1,72	628	
CHD065	0°÷65° (5° steps)	65	180	65x65	60	1,14÷1,31	1,44÷1,72	632	
CHD080	0°÷65° (5° steps)	80	275	80x88	149	1,13÷1,37	1,50÷1,85	636	
CHD100	0°÷65° (5° steps)	100	275	100x88	149	1,13÷1,37	1,50÷1,85	640	
CHD150	0°÷65° (5° steps)	150	355	150x120	391	2,29	7,15	644	
CHD180	0°÷65° (5° steps)	180	355	180x120	396	2,29	7,15	648	
CHD200	0°÷65° (5° steps)	200	355	200x120	396	2,29	7,15	652	
CHD250	0°÷65° (5° steps)	250	355	250x160	645	4,58	14,30	656	
CHD300	0°÷65° (5° steps)	300	355	300x160	645	4,58	14,30	660	



High stock availability



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				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

OPTION CODE

SL 1 ÷ 60 (1mm steps)

*Return Type: G = Gas Spring / S = Spring



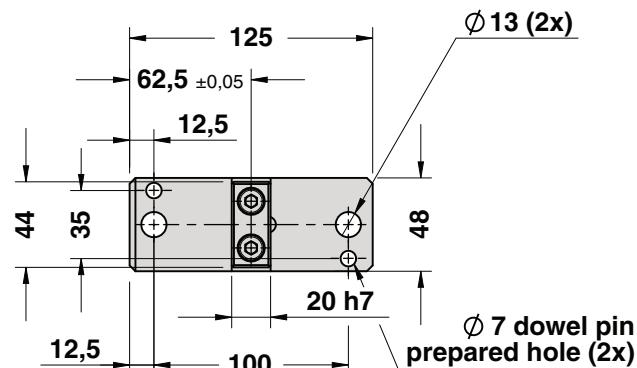
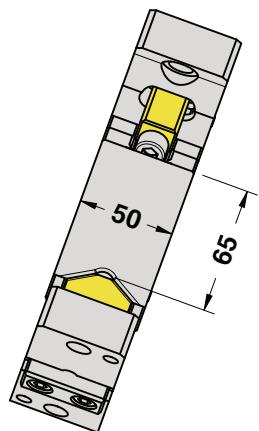
Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHD050	05	G	SL55

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		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

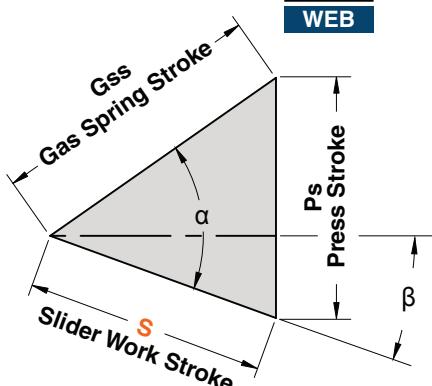


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

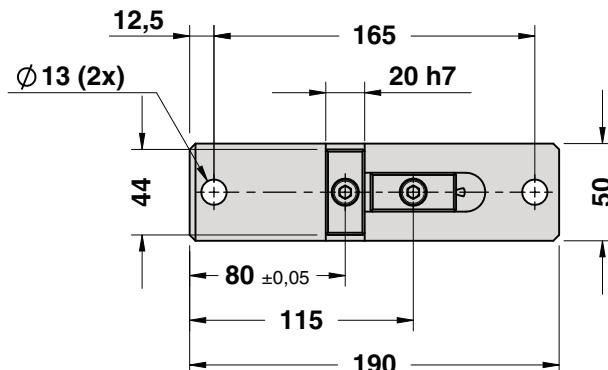
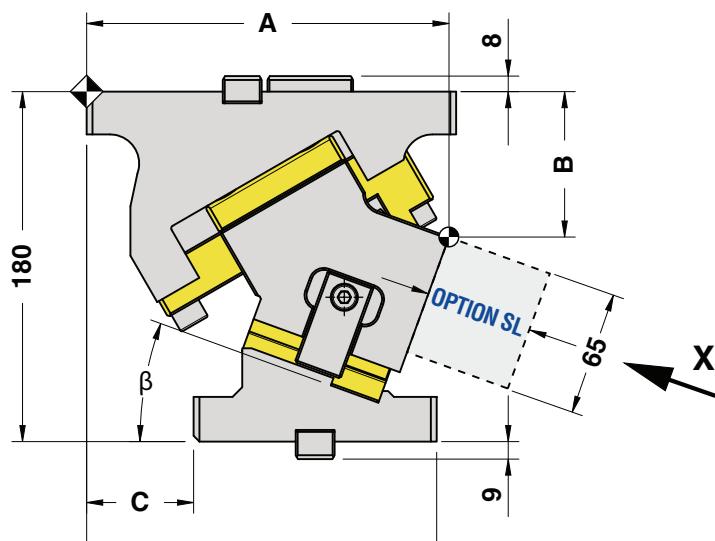
X VIEW



CAM DIAGRAM

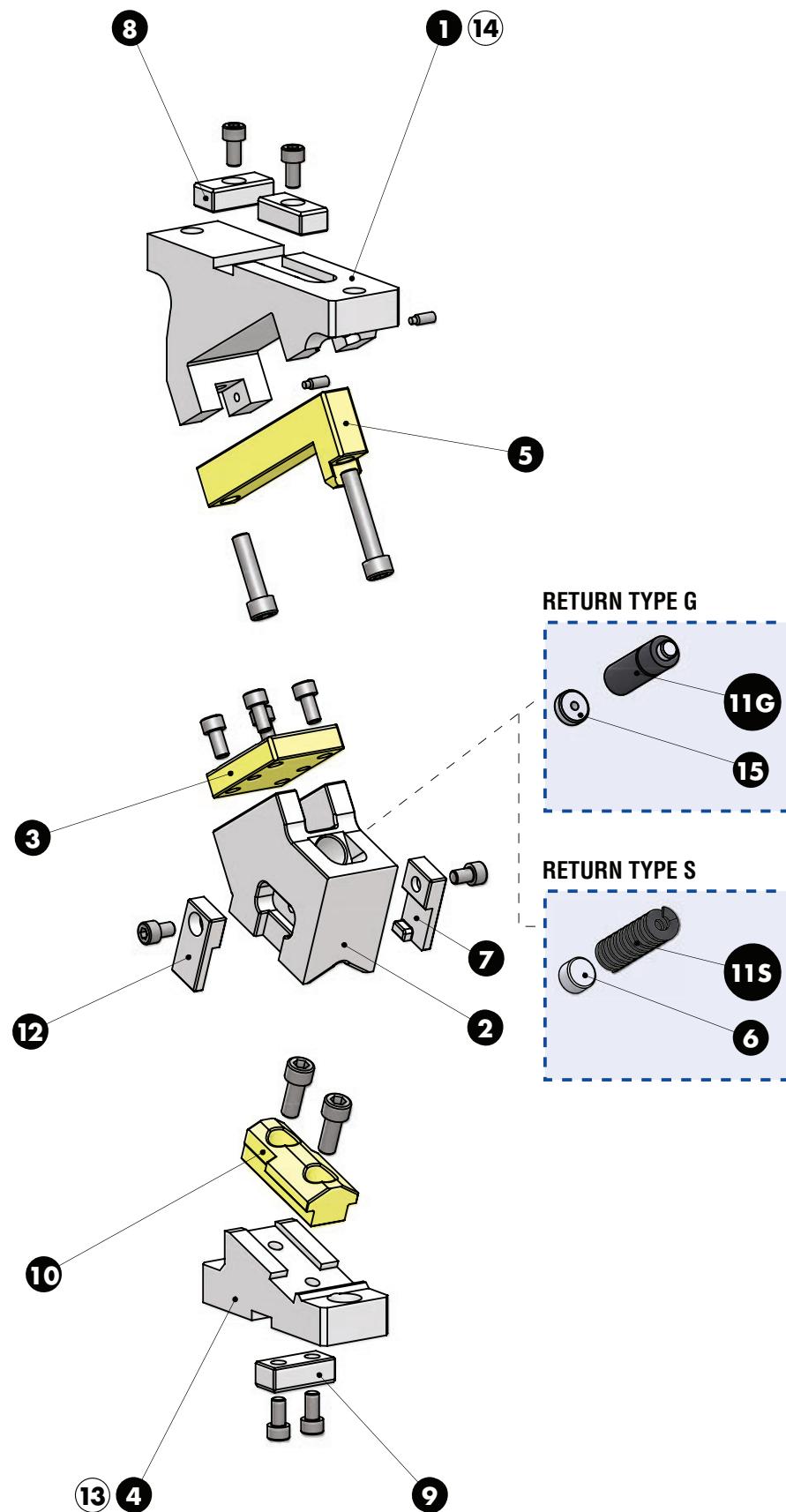


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	14,98	17,85	23,3
5°	50°	15,62	16,92	22
10°	50°	15,64	15,64	20,1
15°	50°	16,96	15,86	20
20°	50°	18,43	16,30	20
25°	50°	18,00	15,21	18
30°	50°	17,36	14,15	16
35°	50°	18,87	14,96	16
40°	50°	20,57	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





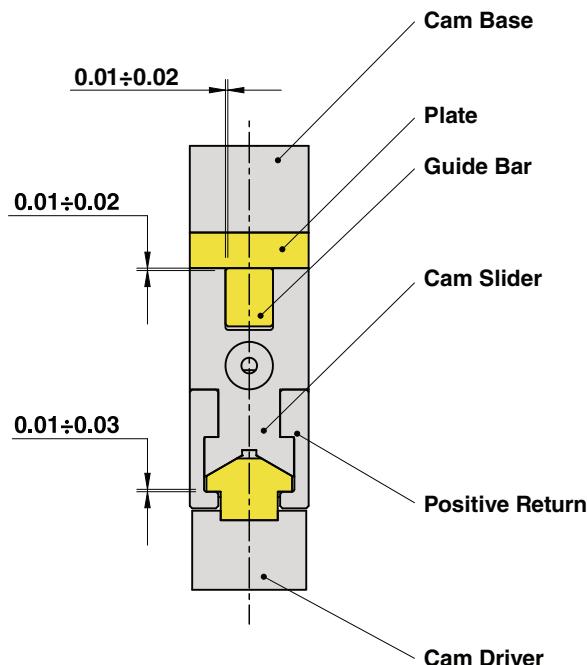
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

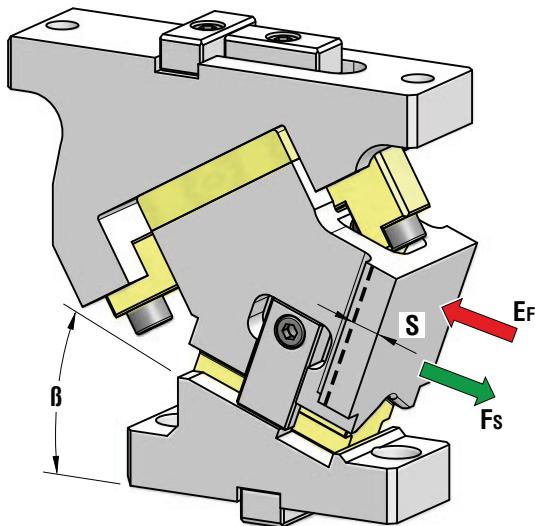


PART LIST

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



WEB



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WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				Ef	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



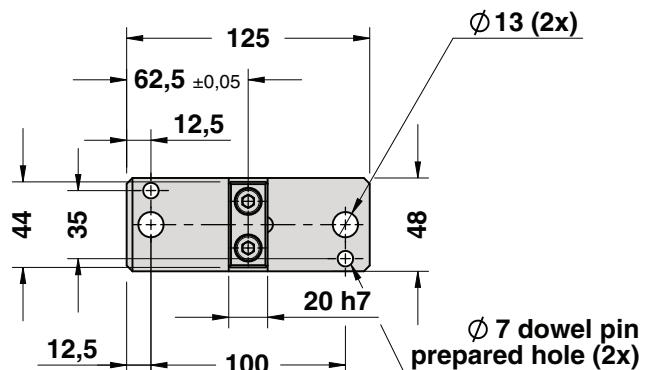
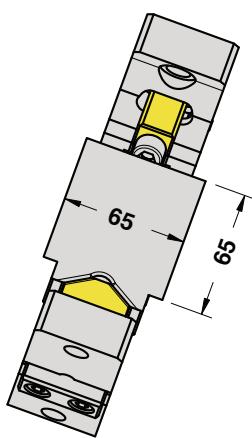
Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHD065	05	G	SL55

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		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

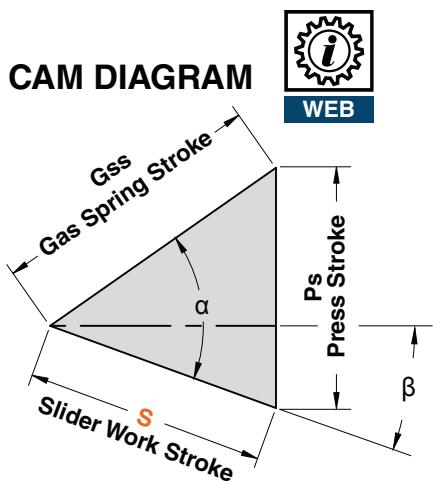


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

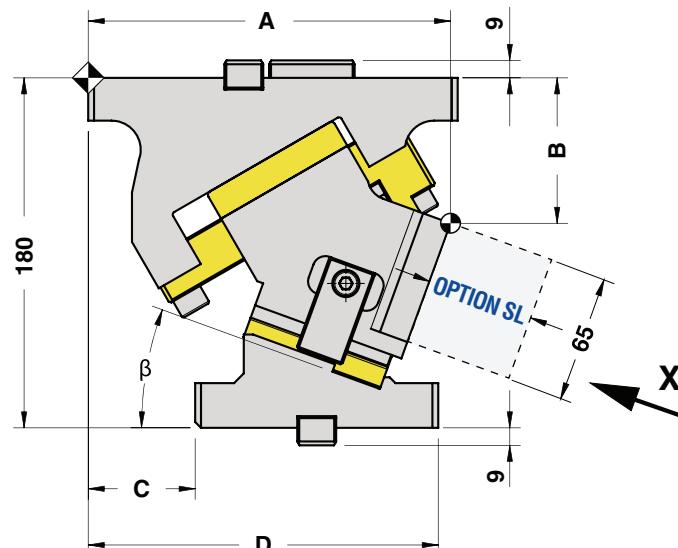
X VIEW



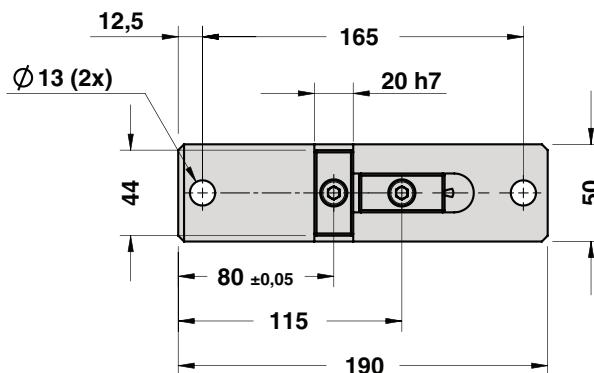
CAM DIAGRAM



Cam Units CHD

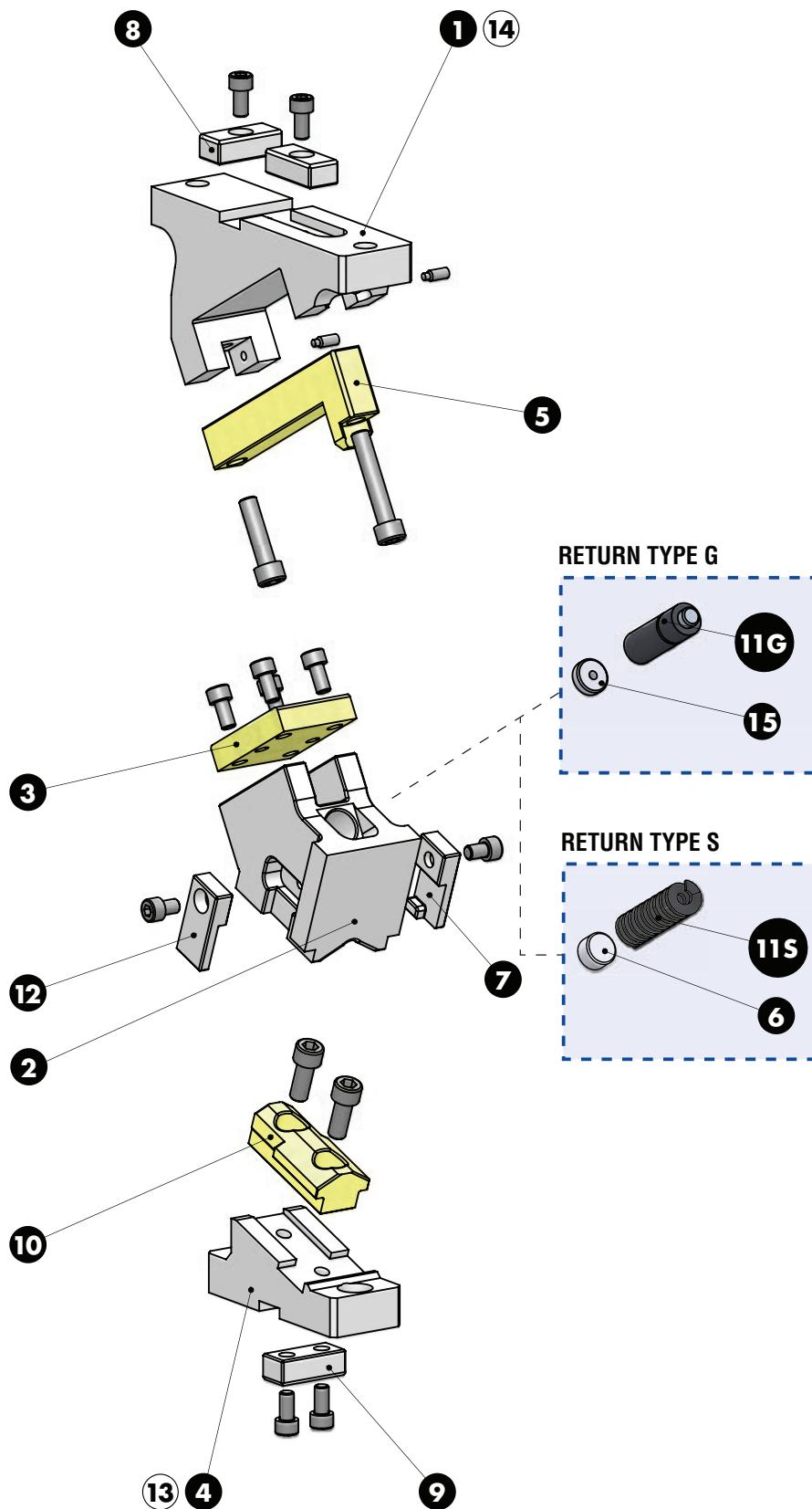


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	14,98	17,85	23,3
5°	50°	15,62	16,92	22
10°	50°	15,64	15,64	20,1
15°	50°	16,96	15,86	20
20°	50°	18,43	16,30	20
25°	50°	18,00	15,21	18
30°	50°	17,36	14,15	16
35°	50°	18,87	14,96	16
40°	50°	20,57	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





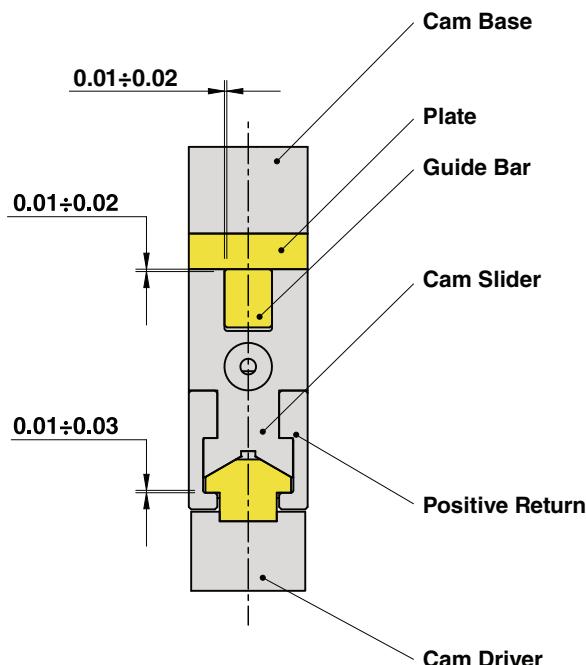
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

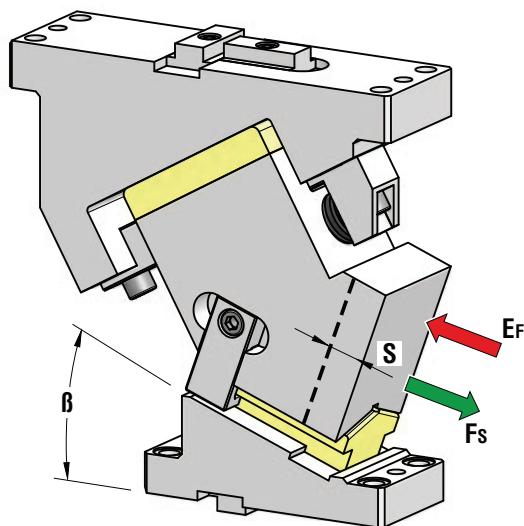


PART LIST

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



WEB



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WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				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



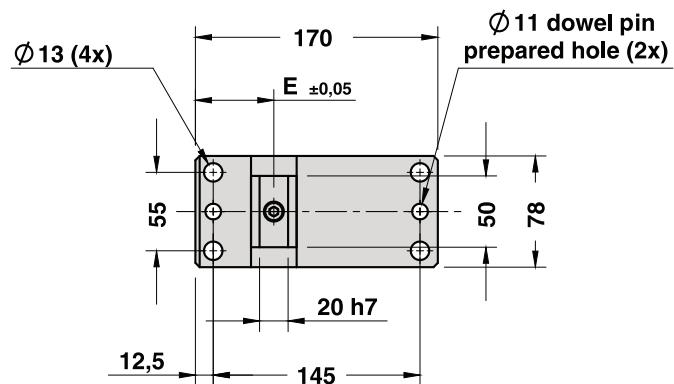
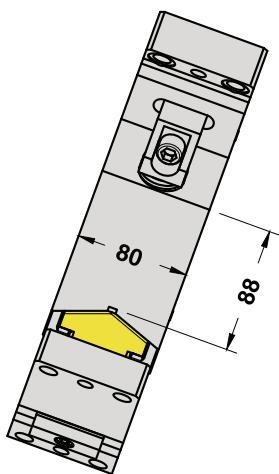
Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHD080	05	G	SL55

OMCR CODE	Work Angle β	Overall Dimensions (mm)				
		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

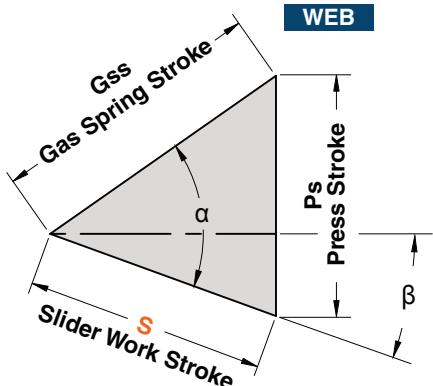


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

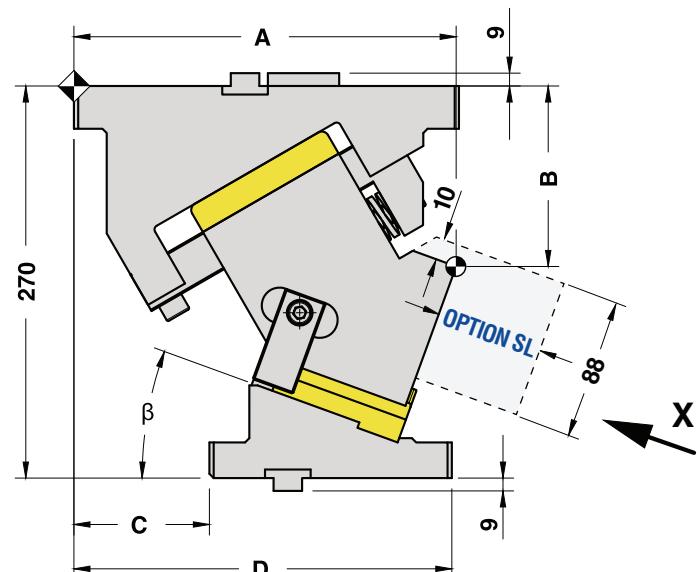
X VIEW



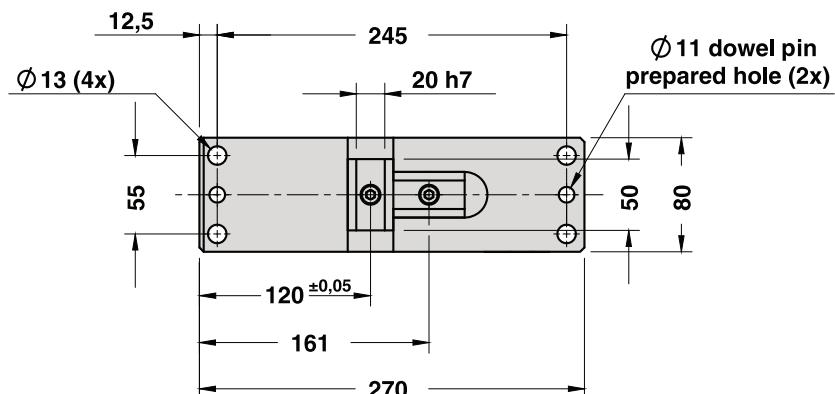
CAM DIAGRAM



Cam Units CHD

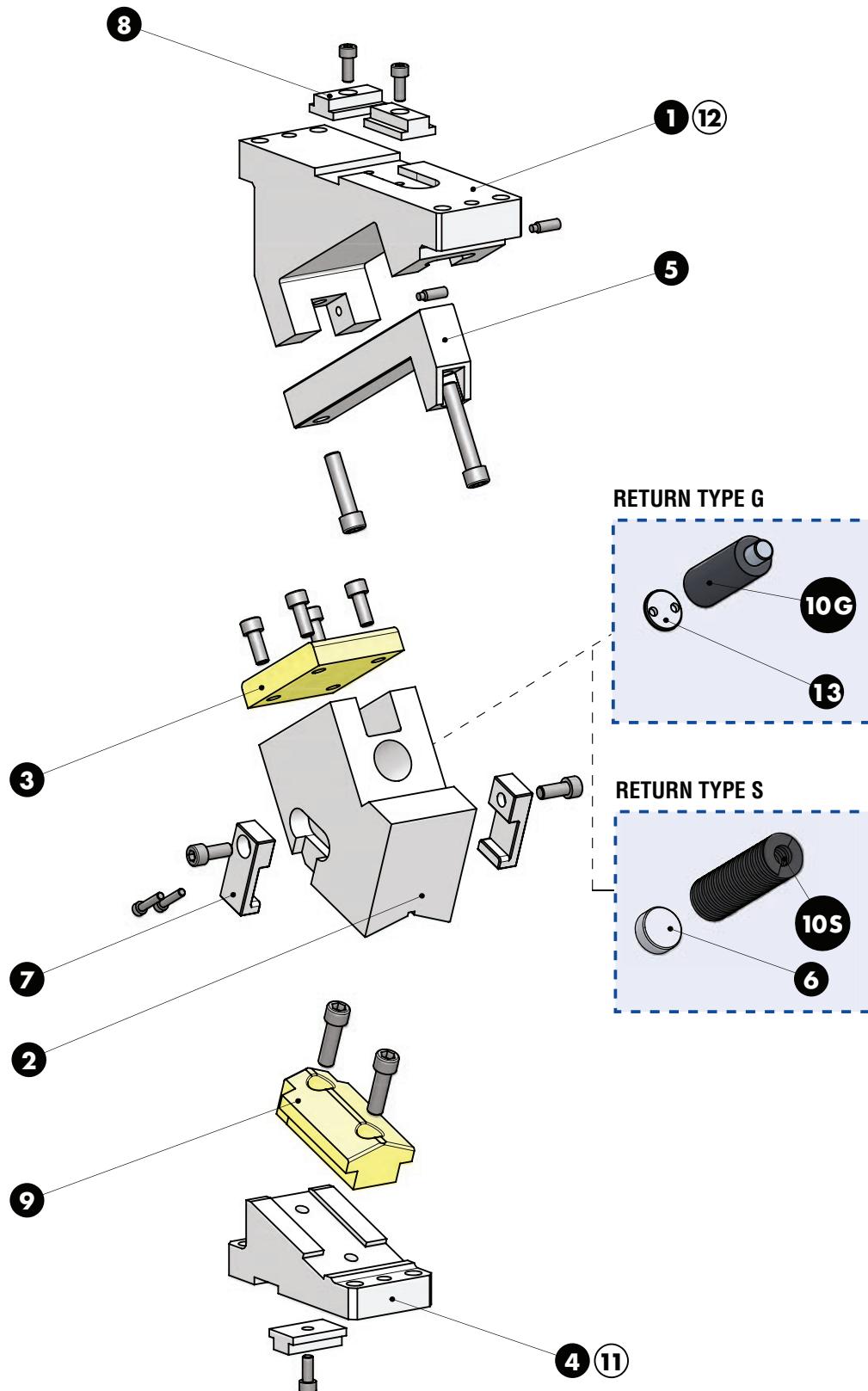


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	30,21	36,00	47
5°	50°	30,52	33,07	43
10°	50°	31,11	31,11	40
15°	50°	33,92	31,72	40
20°	50°	32,26	28,53	35
25°	50°	35,00	29,58	35
30°	50°	34,72	28,31	32
35°	50°	37,73	29,93	32
40°	50°	39,85	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





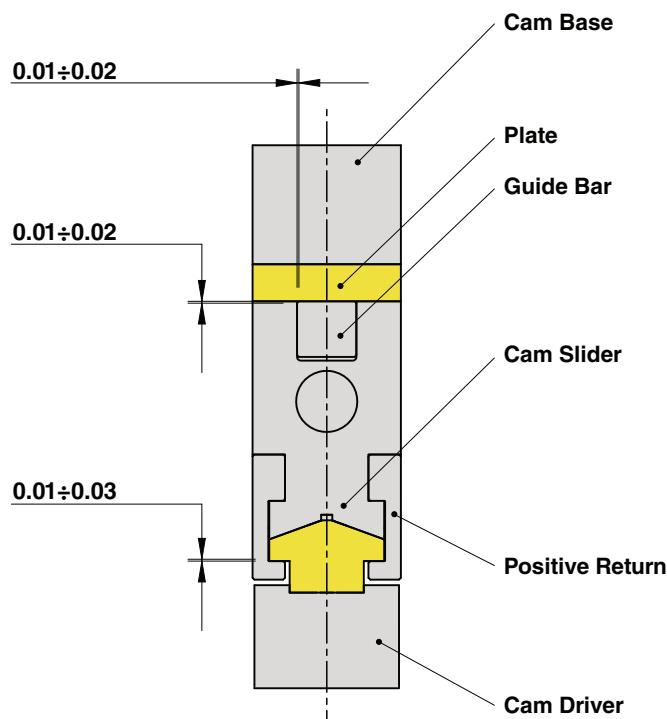
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



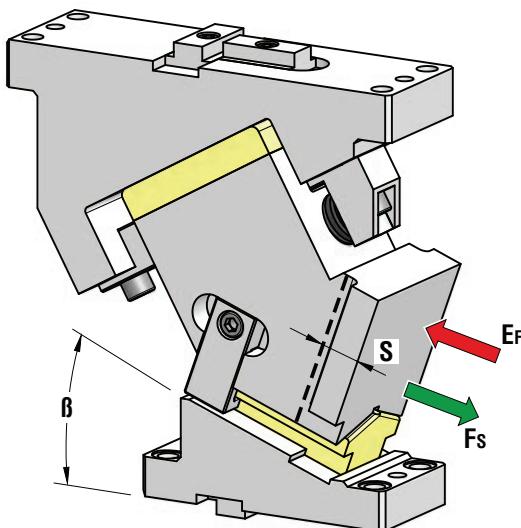
Cam Units CHD

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



WEB



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P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				E _F	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



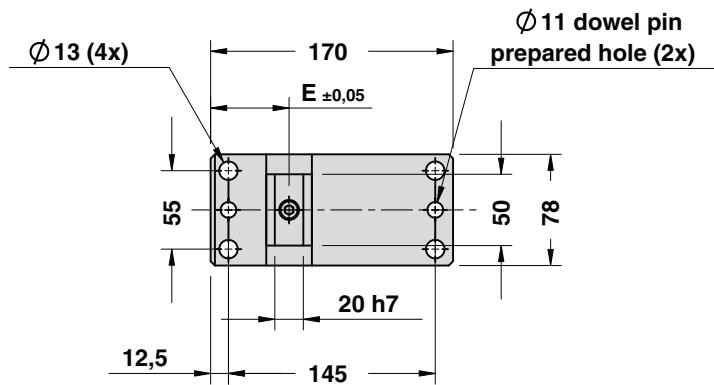
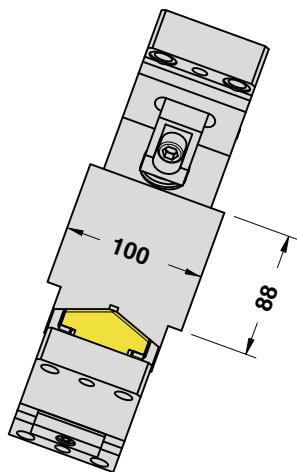
Art.	Work Angle = 5°	Return Type*	OPTION CODE
CHD100	05	G	SL55

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		⊗	A	B	C	D
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

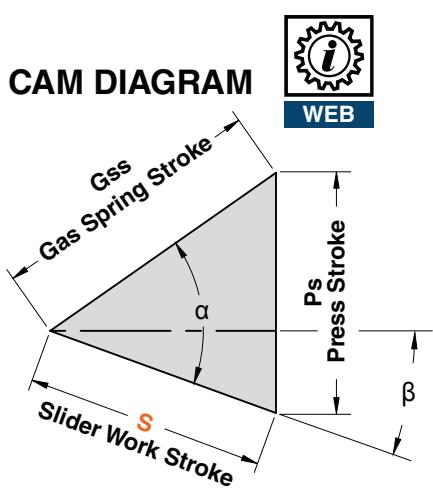


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

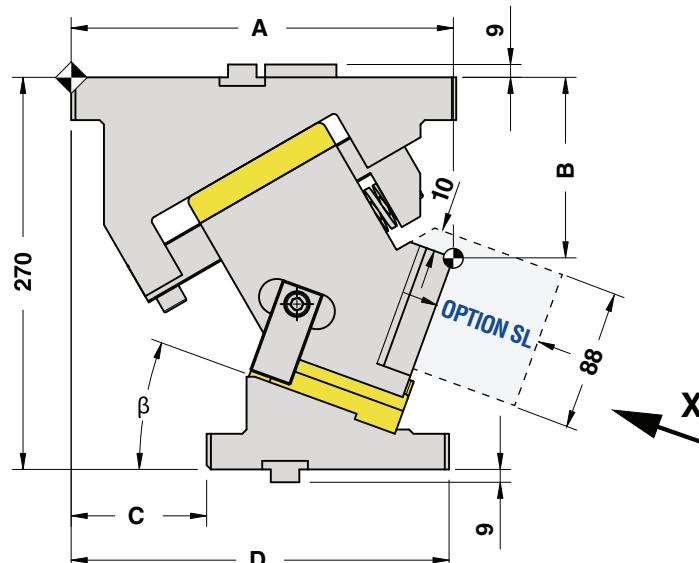
X VIEW



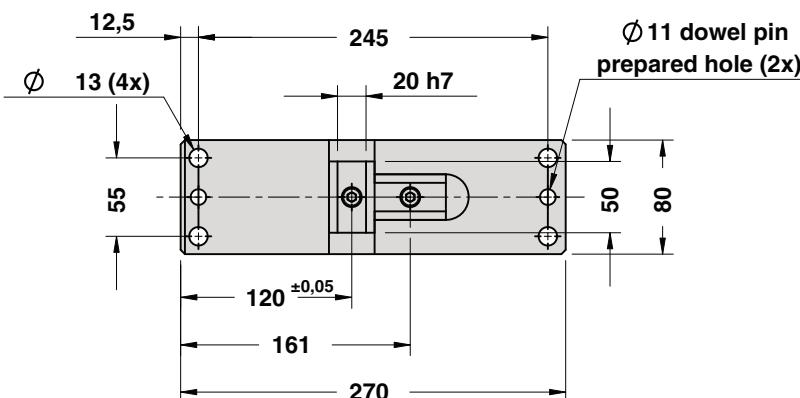
CAM DIAGRAM



Cam Units CHD

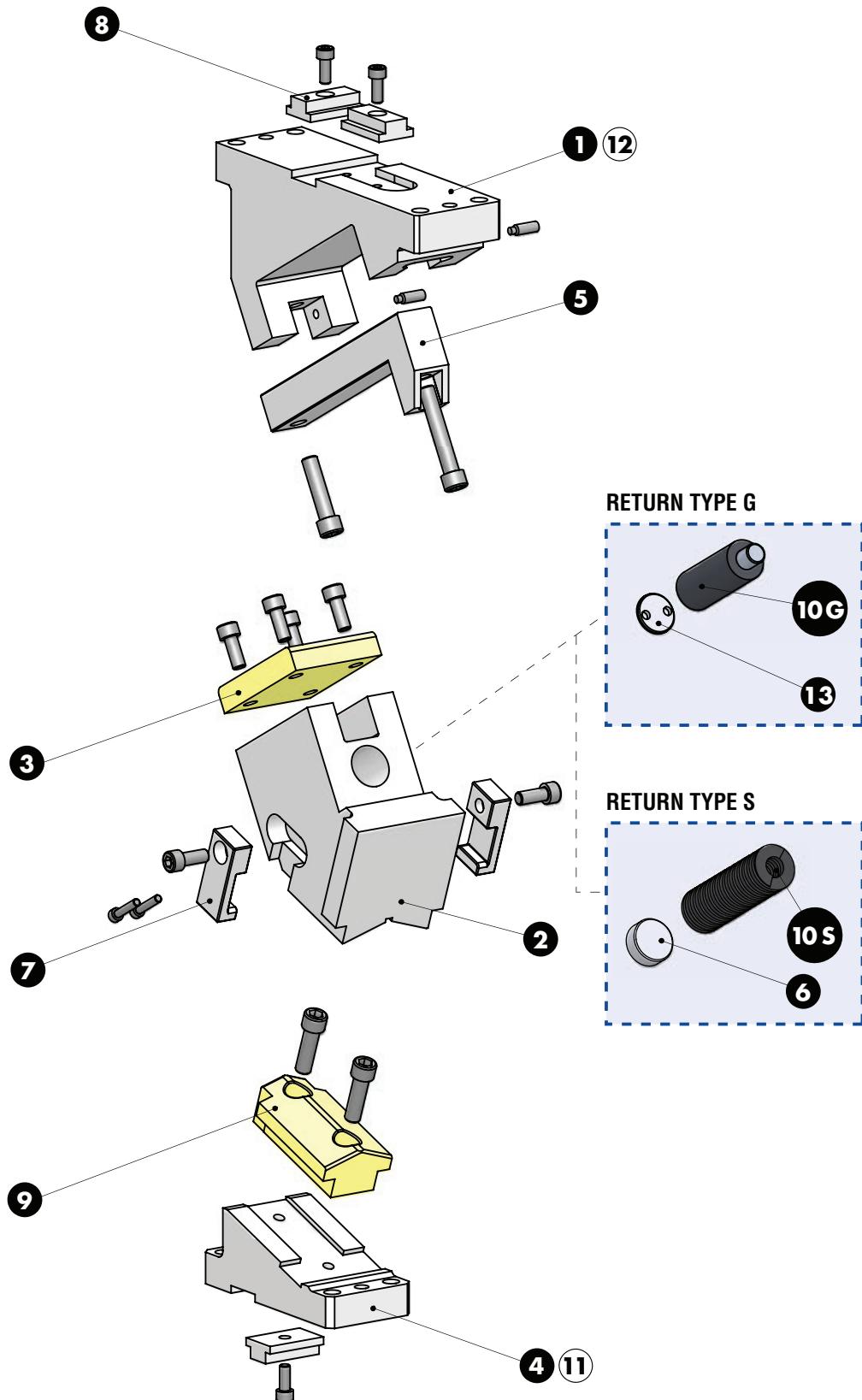


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
⊖	⊖	S	Ps	Gss
0°	50°	30,21	36,00	47
5°	50°	30,52	33,07	43
10°	50°	31,11	31,11	40
15°	50°	33,92	31,72	40
20°	50°	32,26	28,53	35
25°	50°	35,00	29,58	35
30°	50°	34,72	28,31	32
35°	50°	37,73	29,93	32
40°	50°	39,85	31,00	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





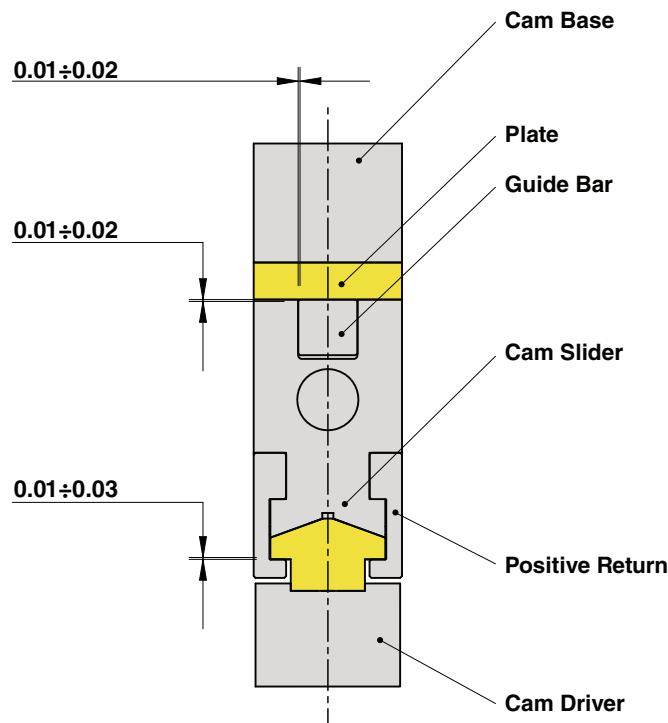
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



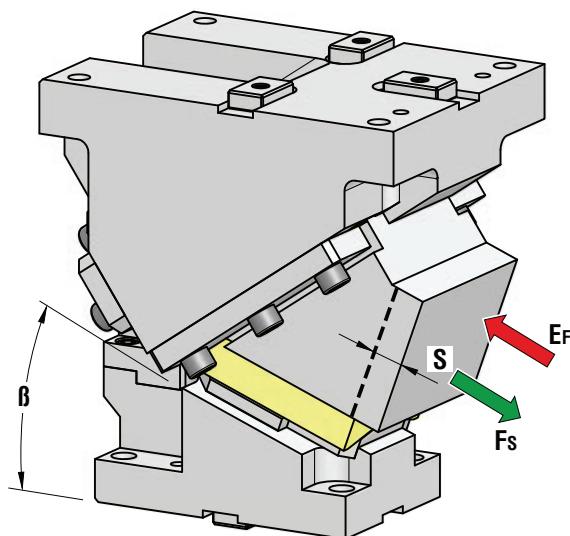
Cam Units CHD

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)			
				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



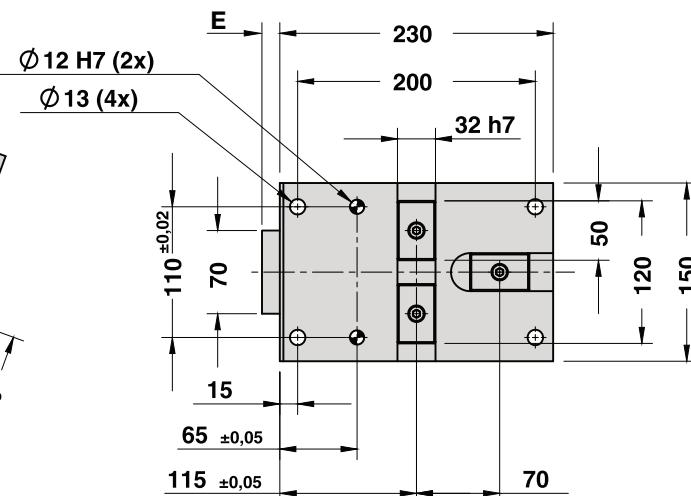
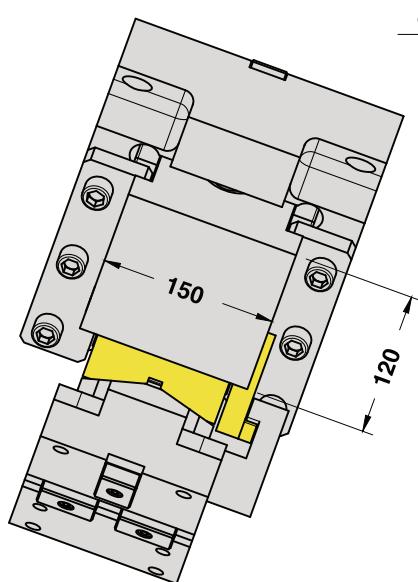
Art.	Work Angle = 5°	Return Type*
CHD150	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		⊗	A	B	C	D
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

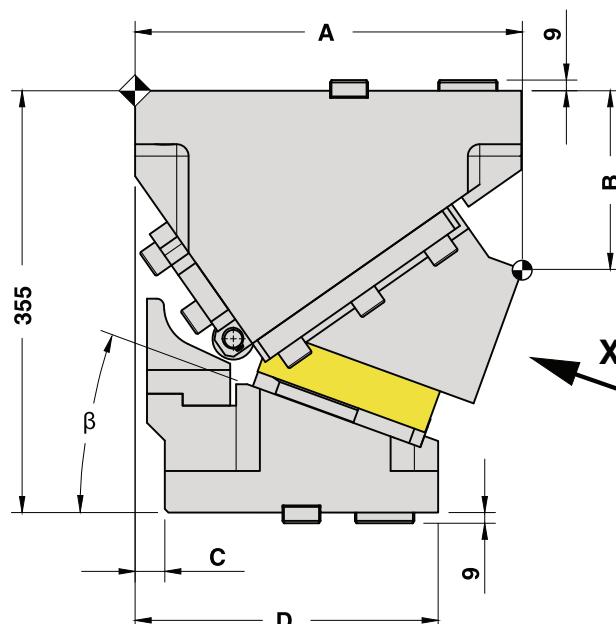
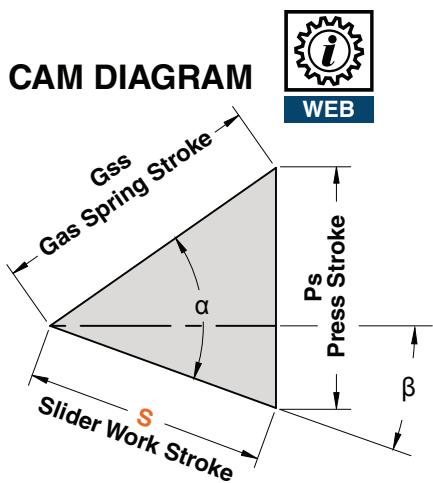


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW

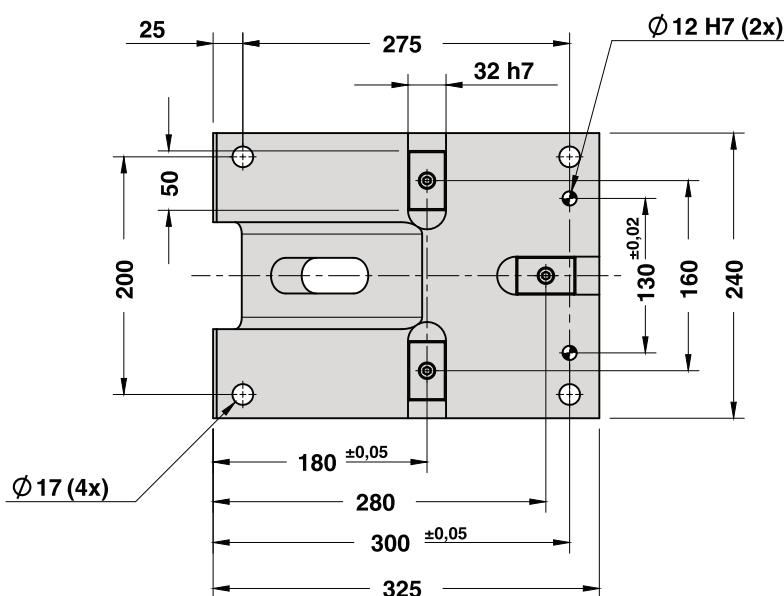


CAM DIAGRAM



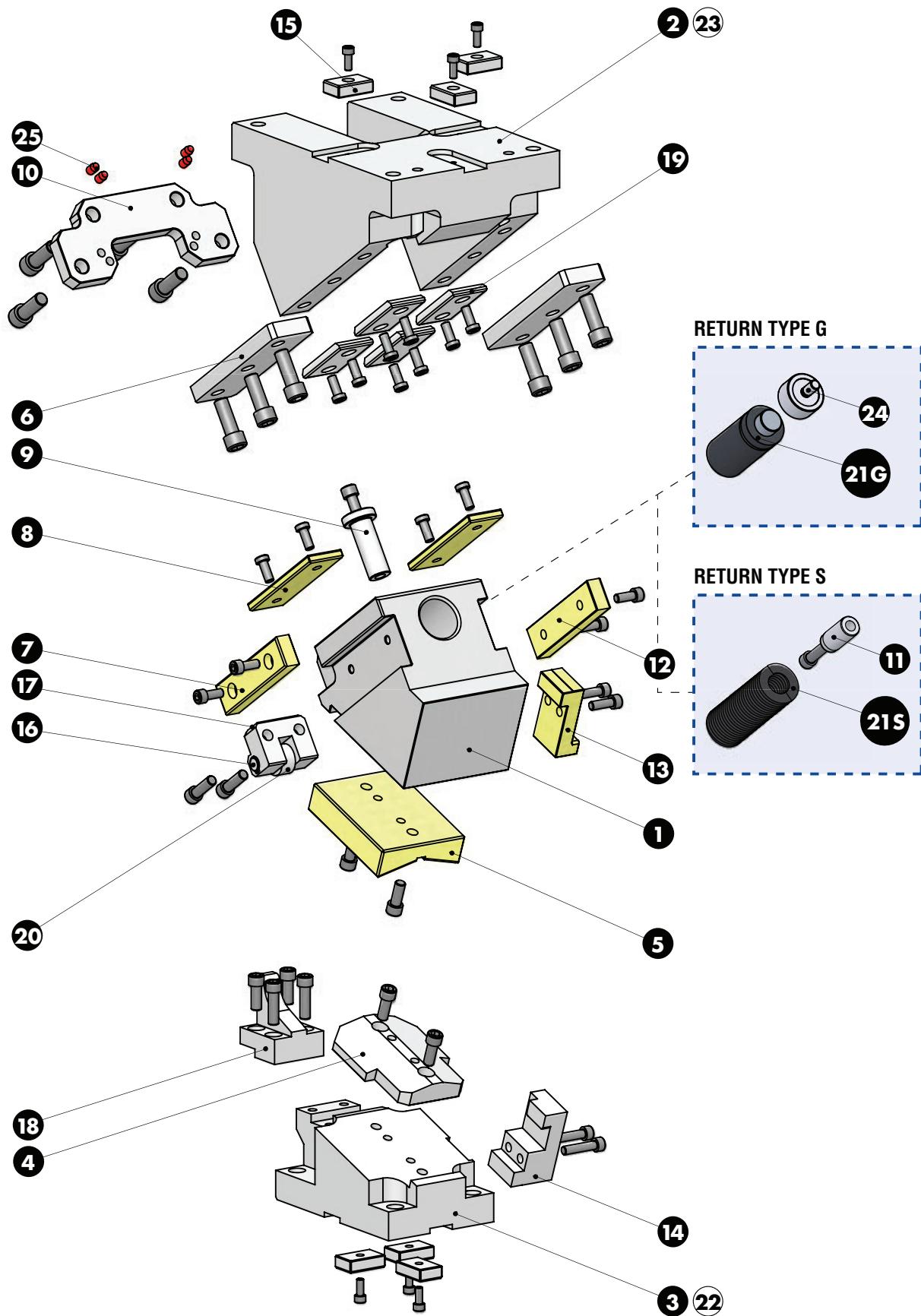
Cam Units CHD

Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
⊖	⊖	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





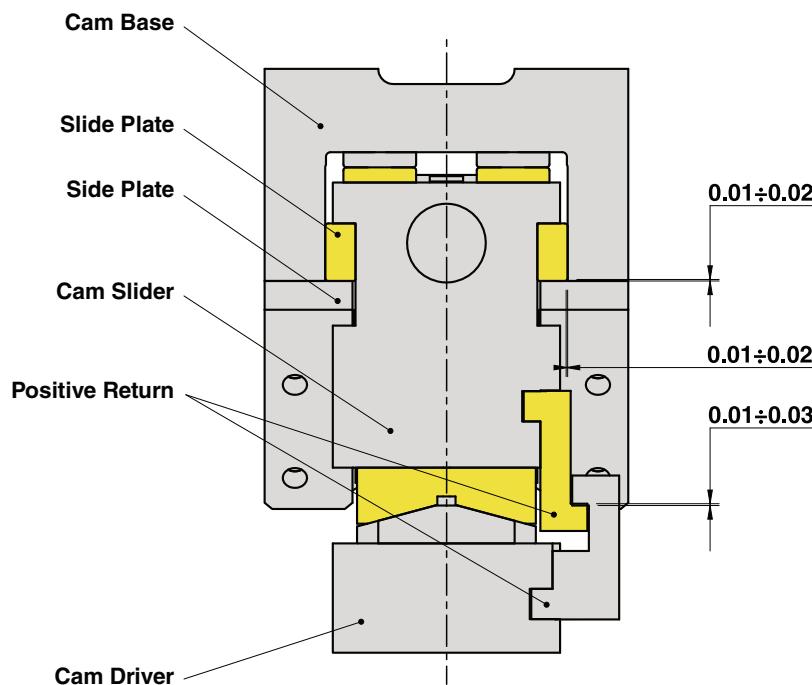
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

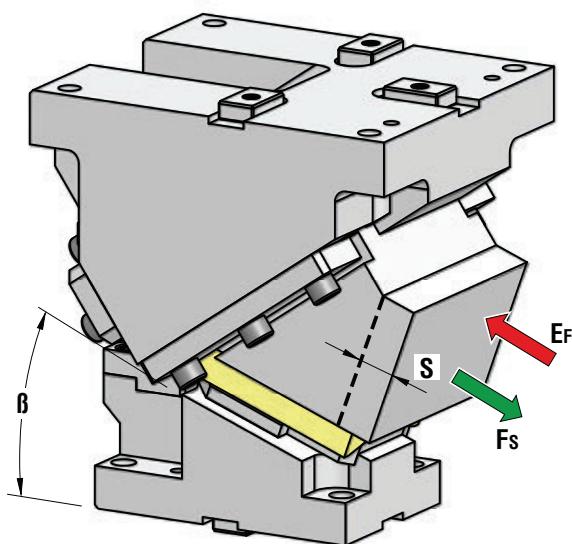


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				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

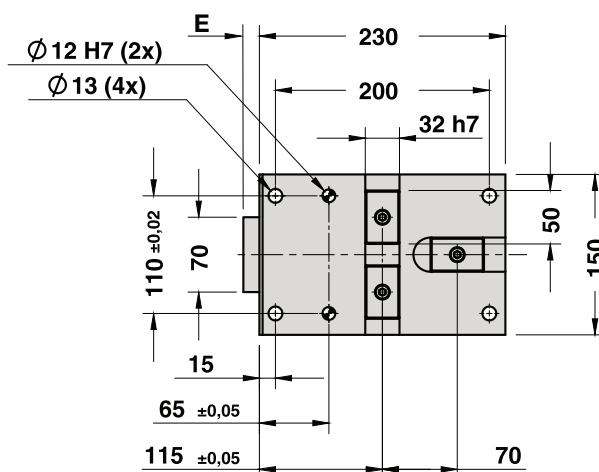
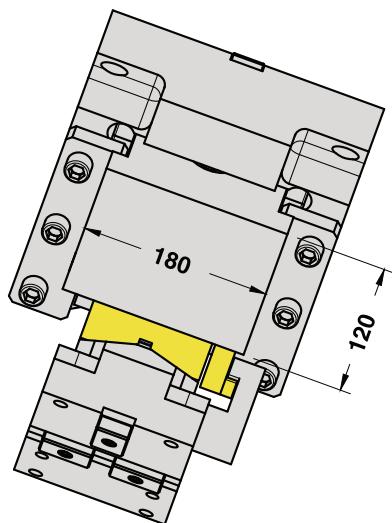
Art.	Work Angle = 5°	Return Type*	
		CHD180	G

OMCR CODE	Work Angle β	Overall Dimensions (mm)				
		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

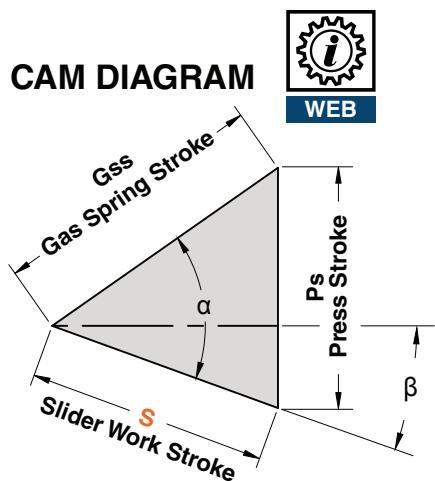


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

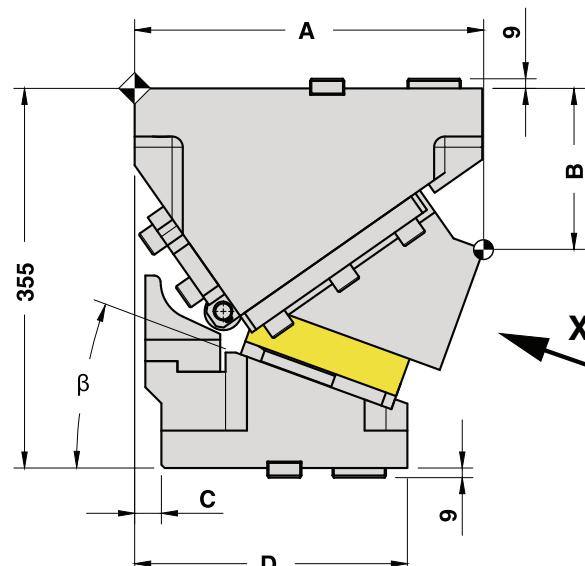
X VIEW



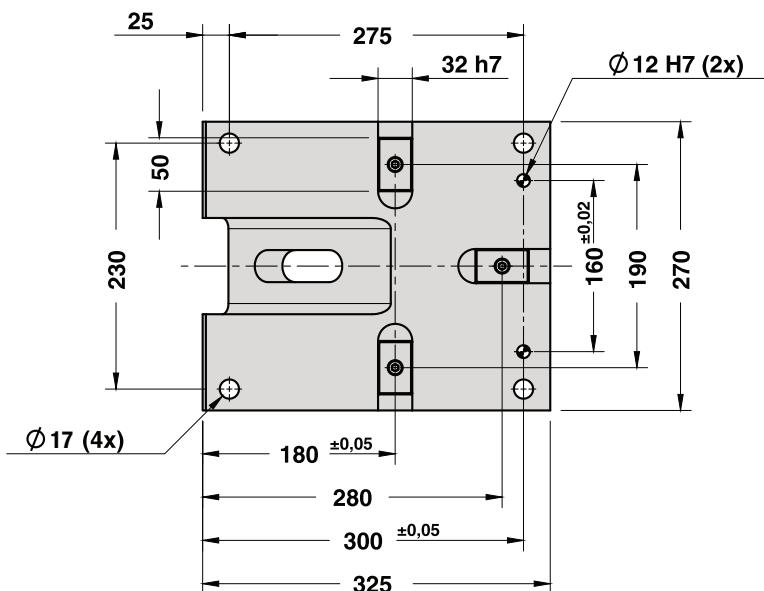
CAM DIAGRAM



Cam Units CHD

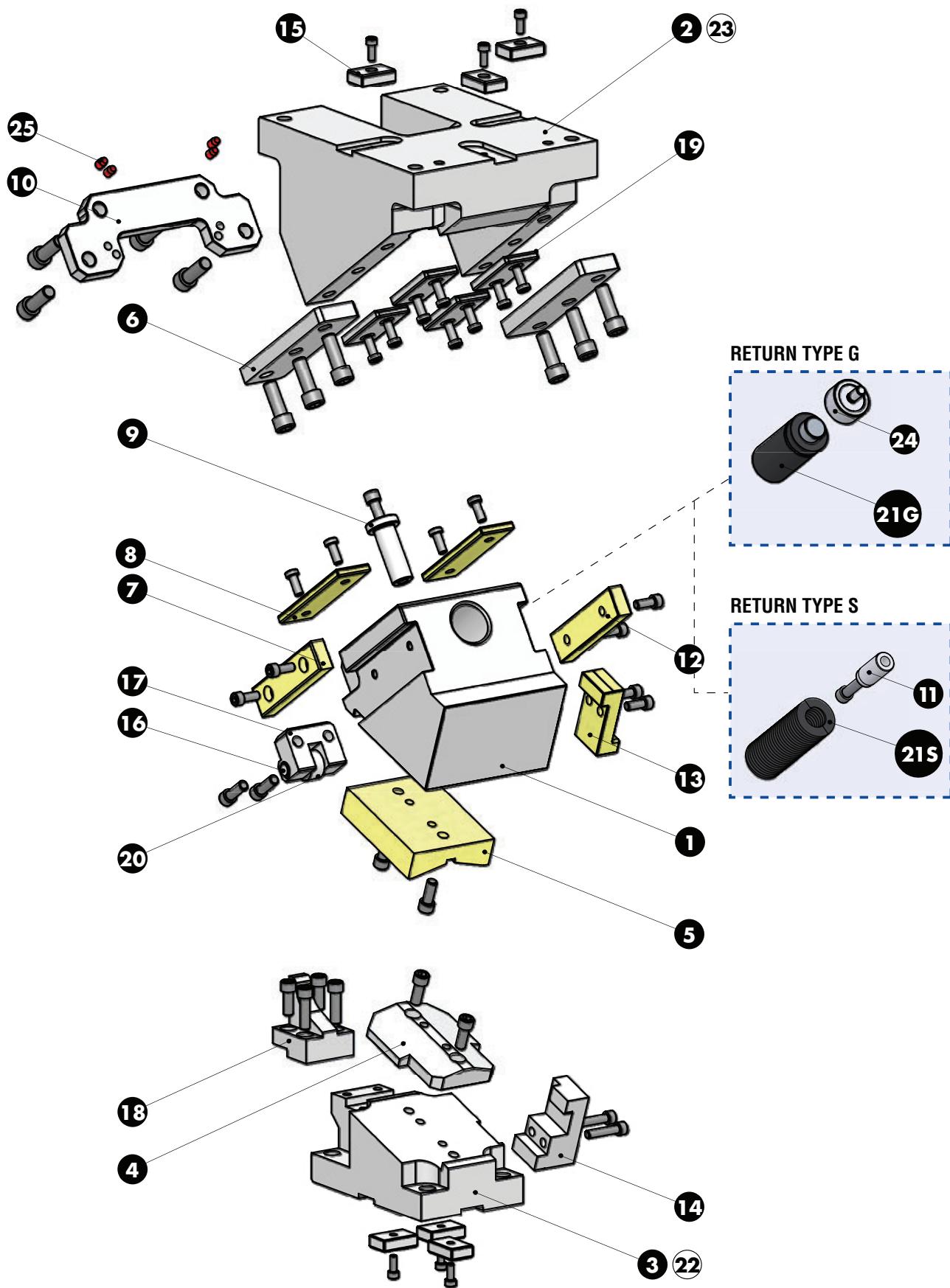


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	55°	28,68	40,96	50
5°	55°	32,26	41,11	50
10°	55°	35,90	41,59	50
15°	55°	39,65	42,40	50
20°	55°	43,59	43,59	50
25°	55°	47,78	45,19	50
30°	55°	52,33	47,29	50
35°	55°	57,36	50,00	50
40°	55°	63,05	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





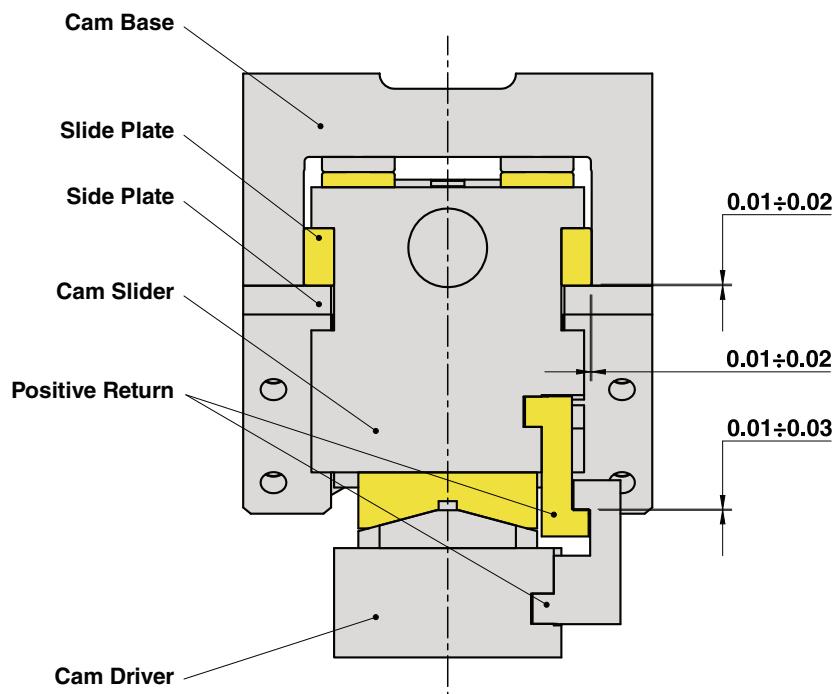
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

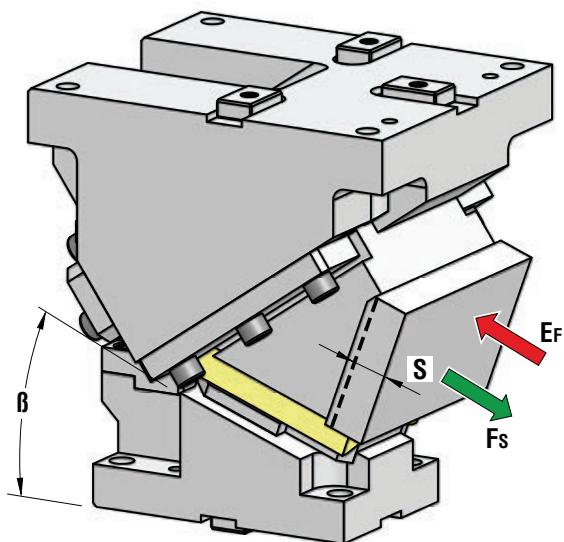


PART LIST

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



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				S	Fs
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

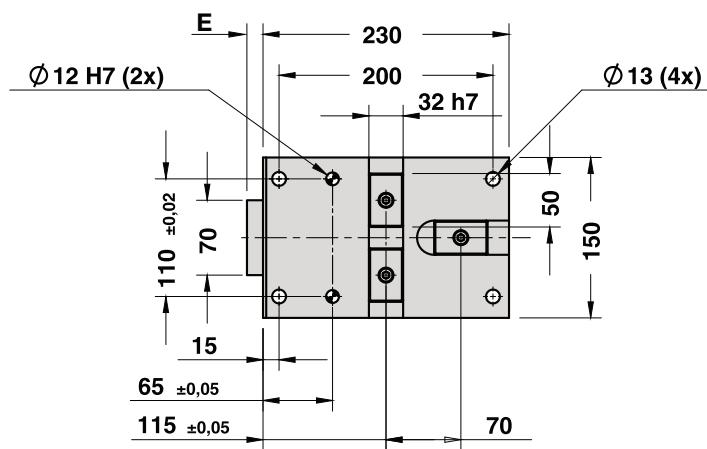
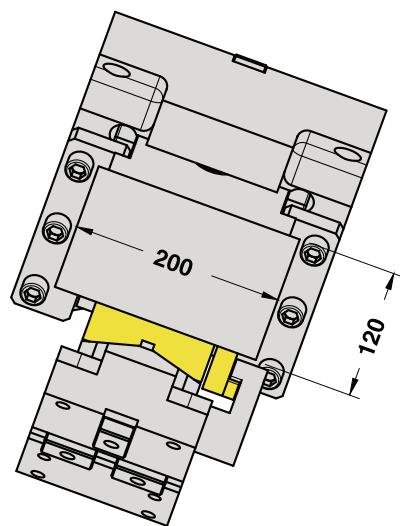
20	ORDER EXAMPLE 	Art.	Work Angle = 5°	Return Type*
		CHD200	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
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

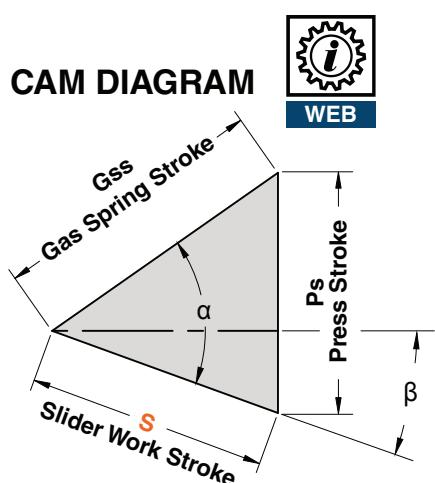


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

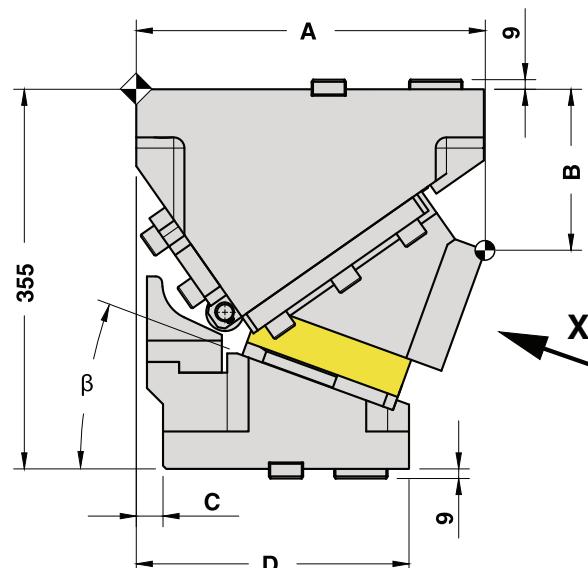
X VIEW



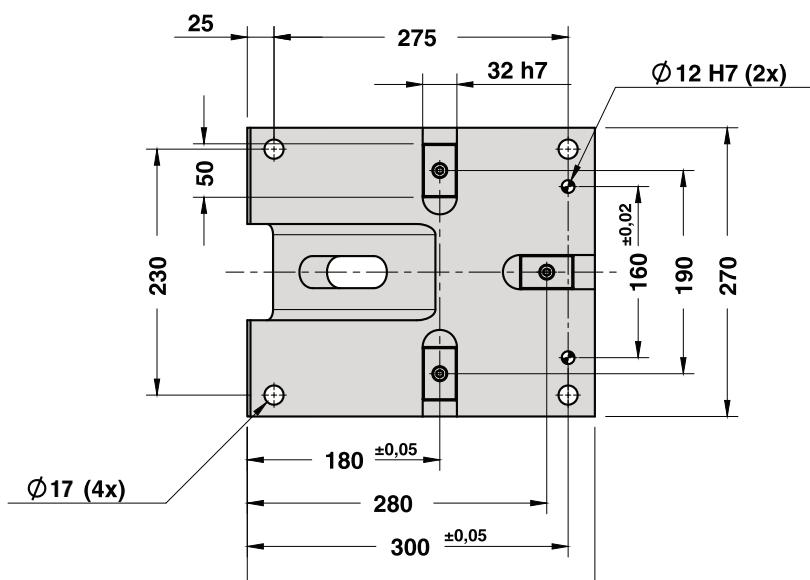
CAM DIAGRAM



Cam Units CHD

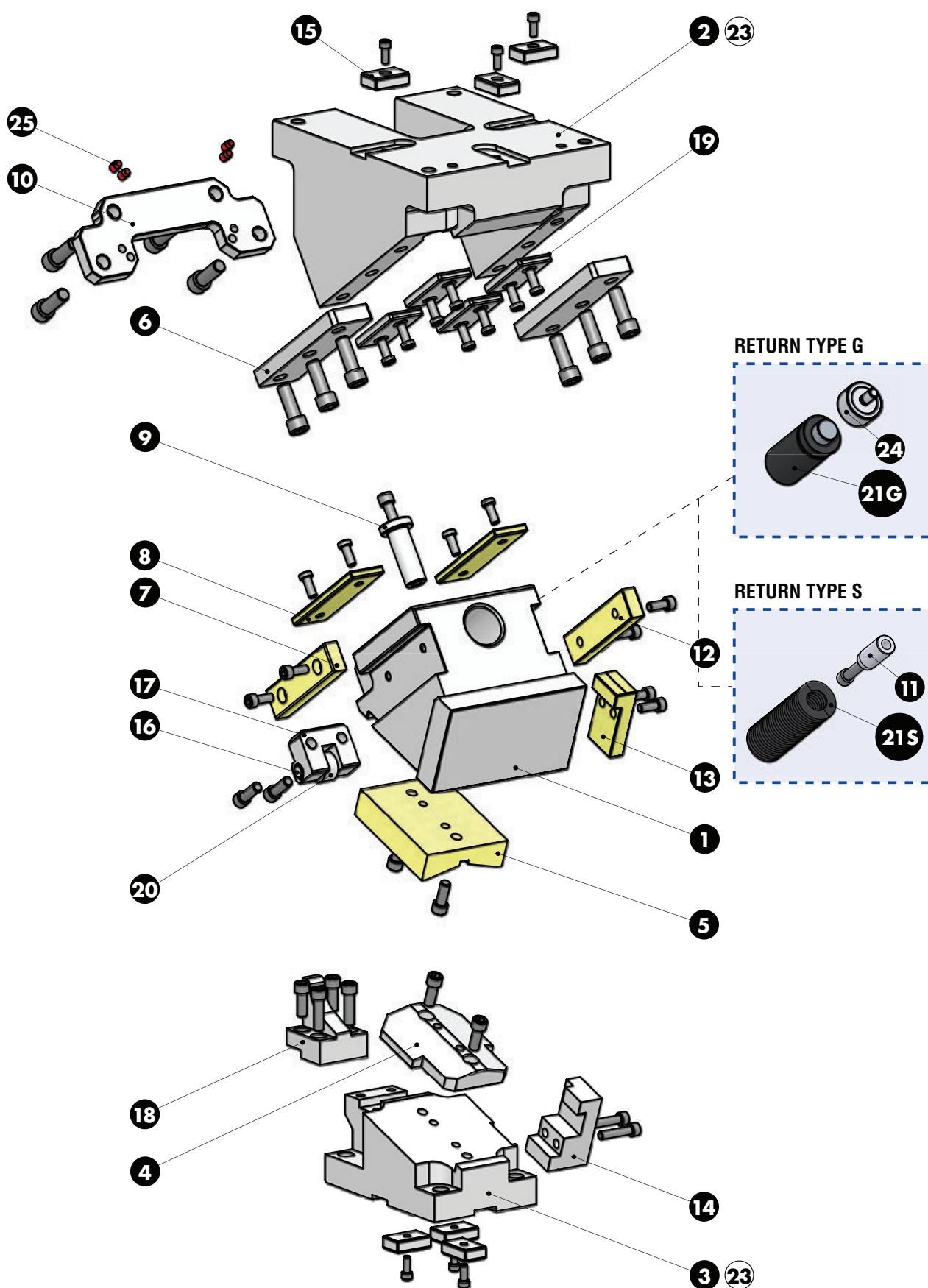


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	55°	28,68	40,96	50
5°	55°	32,26	41,11	50
10°	55°	35,90	41,59	50
15°	55°	39,65	42,40	50
20°	55°	43,59	43,59	50
25°	55°	47,78	45,19	50
30°	55°	52,33	47,29	50
35°	55°	57,36	50,00	50
40°	55°	63,05	53,47	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





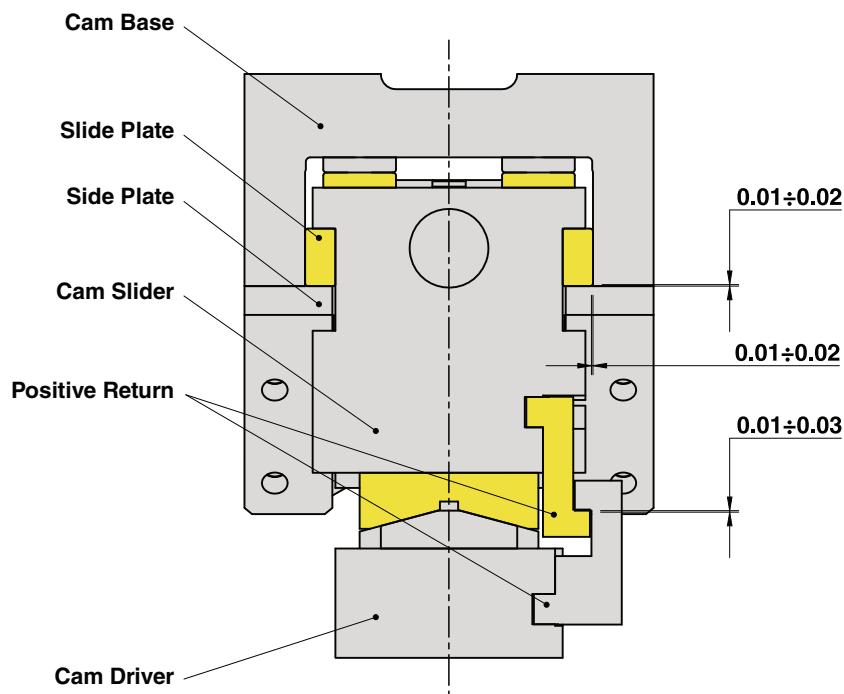
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

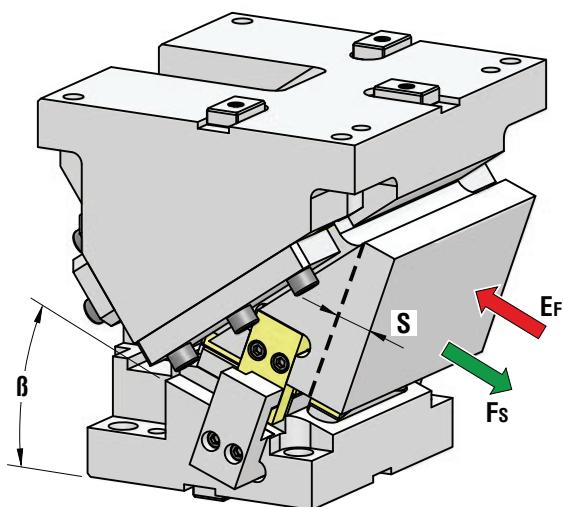


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				Ef	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



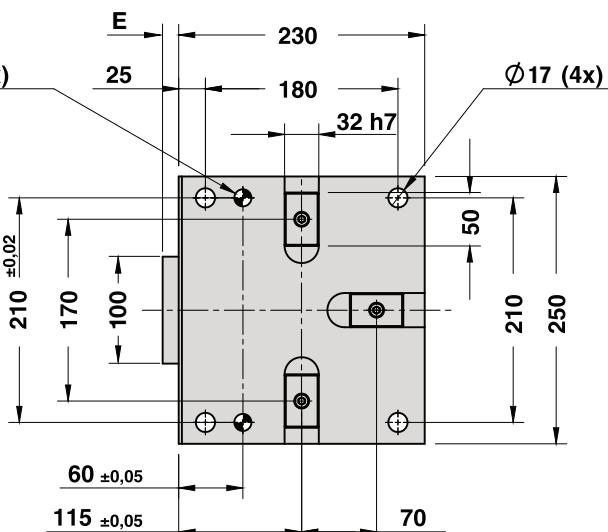
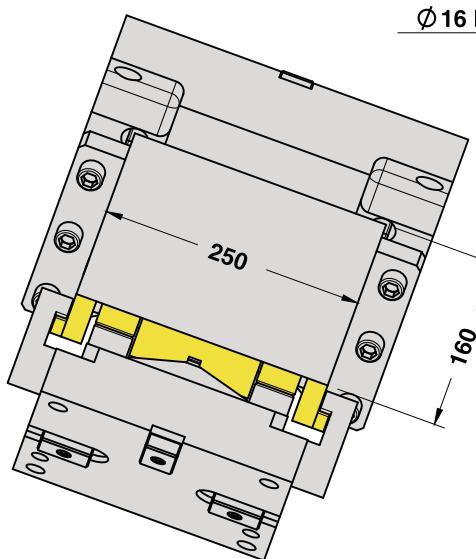
Art.	Work Angle = 5°	Return Type*
CHD250	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
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

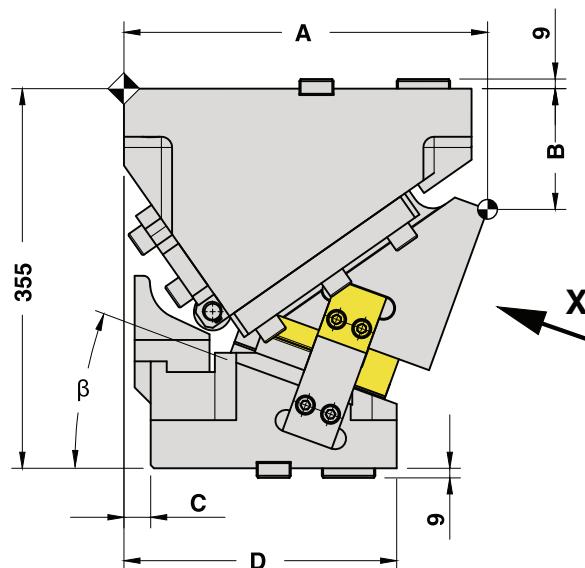
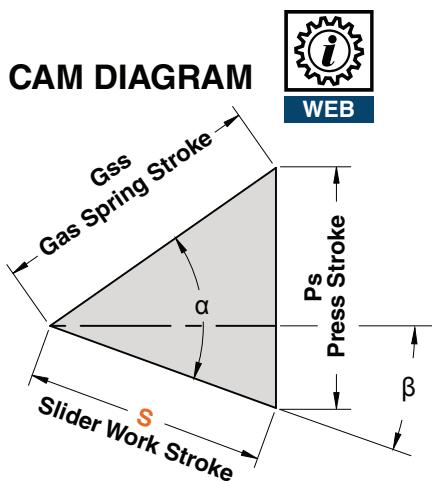


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

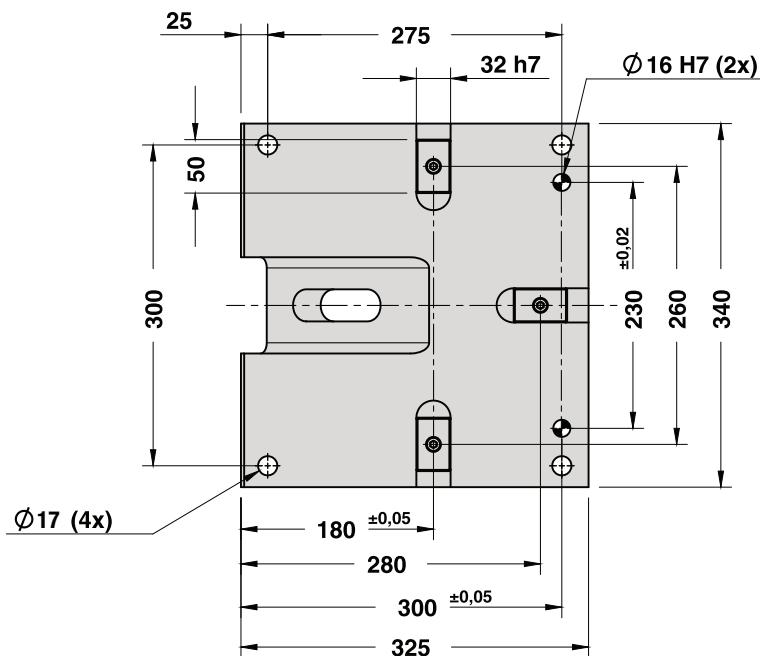
X VIEW



CAM DIAGRAM

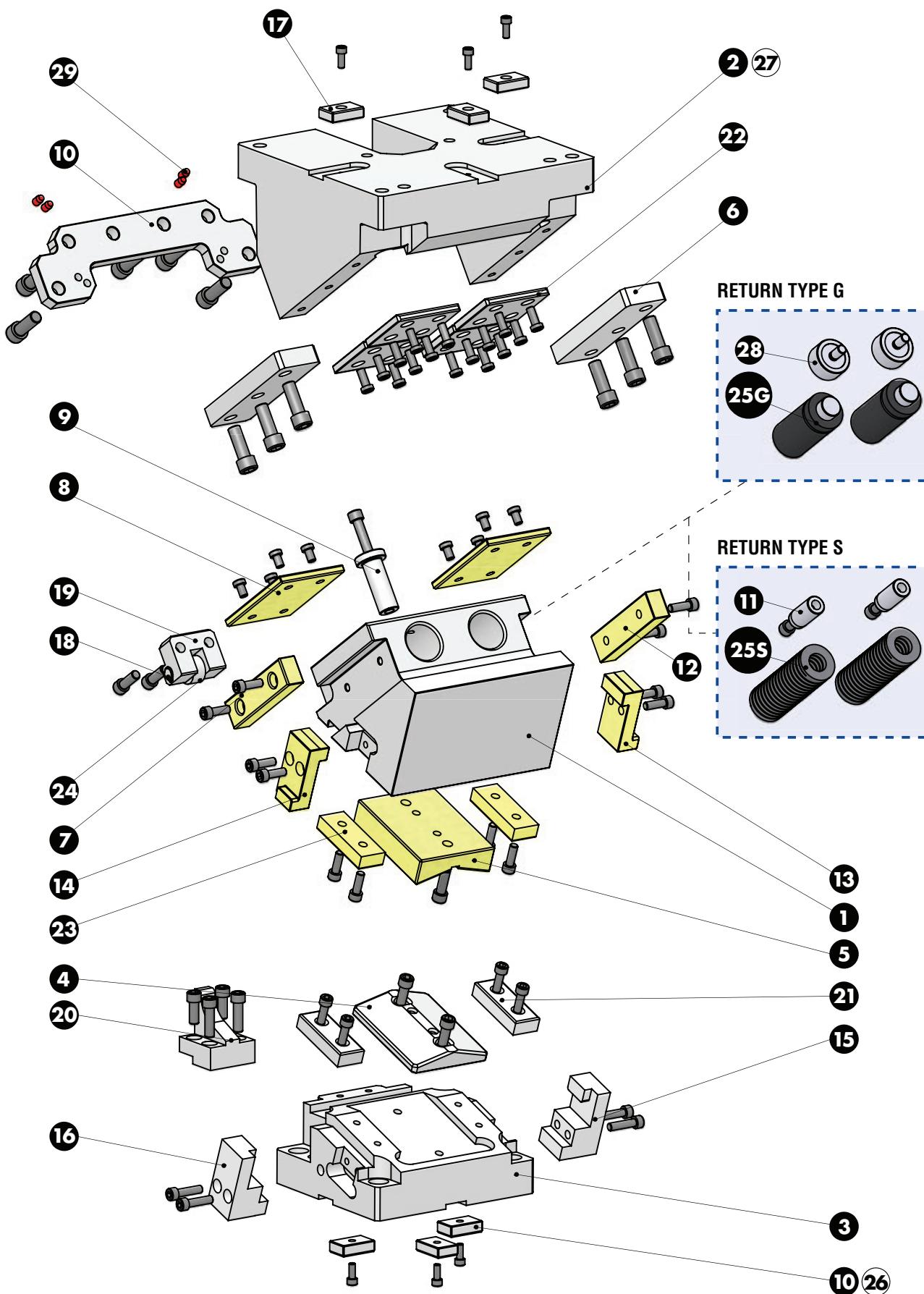


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	55°	28,68	40,96	50
5°	55°	32,26	41,11	50
10°	55°	35,90	41,59	50
15°	55°	39,65	42,40	50
20°	55°	43,59	43,59	50
25°	55°	47,78	45,19	50
30°	55°	52,33	47,29	50
35°	55°	57,36	50,00	50
40°	55°	63,05	53,47	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





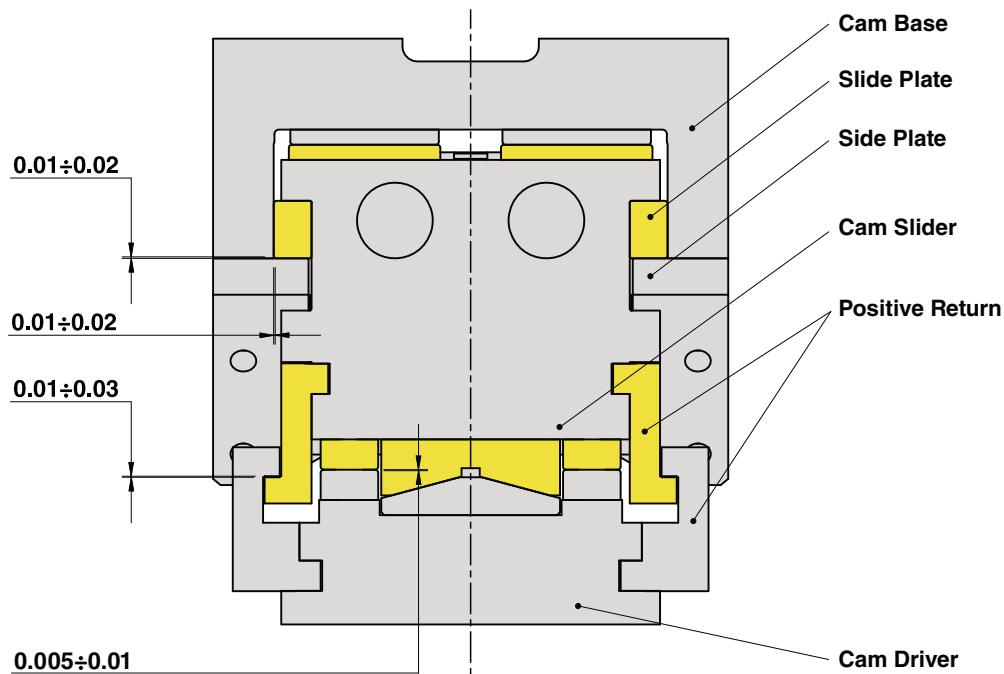
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

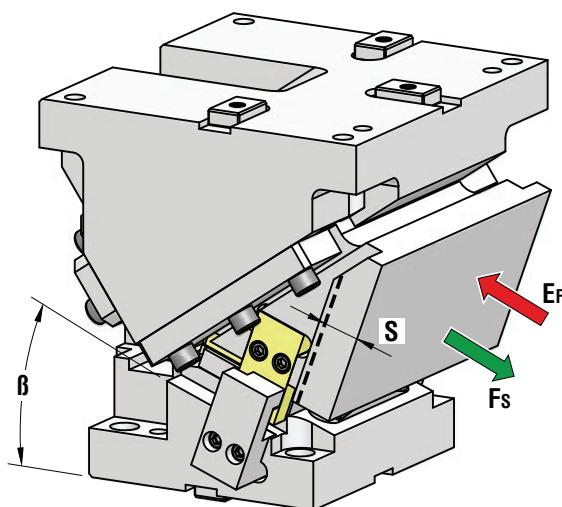


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)			
				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



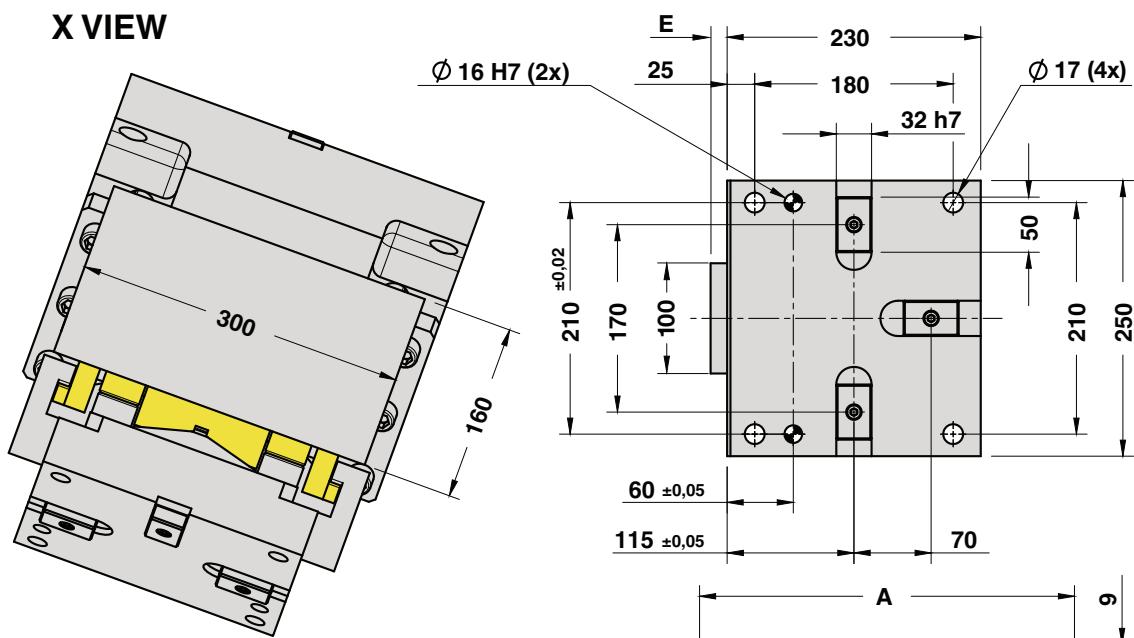
Art.	Work Angle = 5°	Return Type*
CHD300	05	G

OMCR CODE	Work Angle β	Overall Dimensions (mm)				
		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

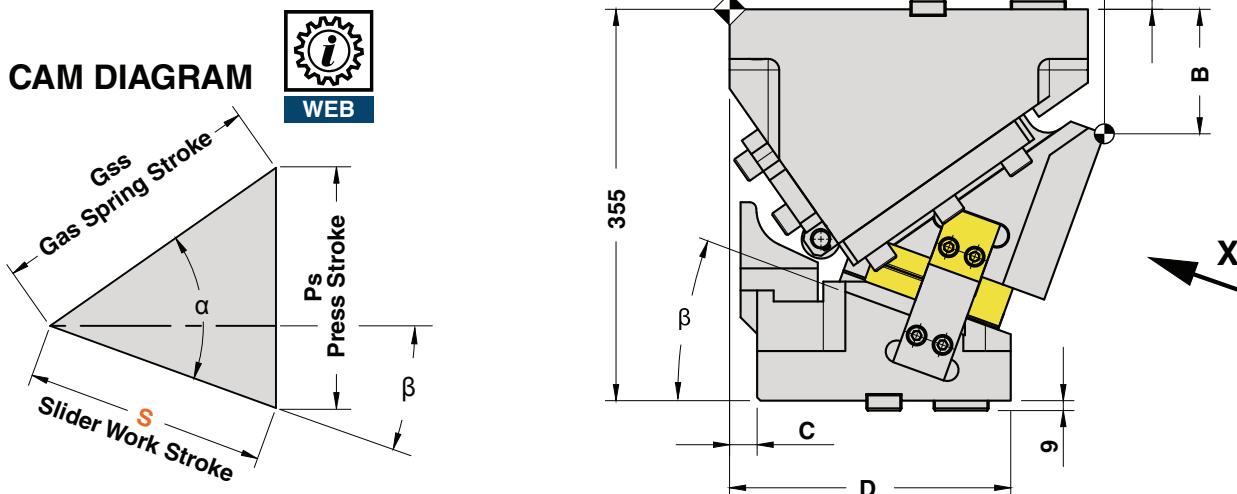


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

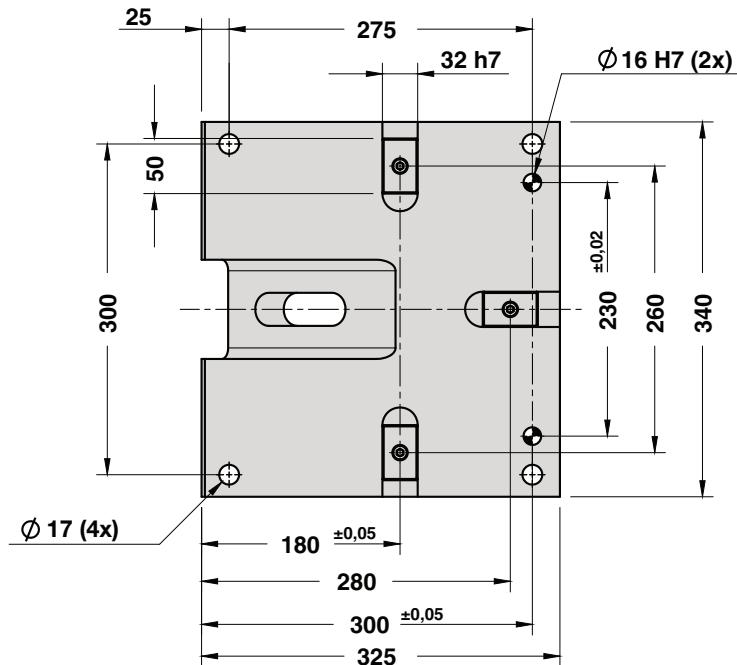
X VIEW



CAM DIAGRAM

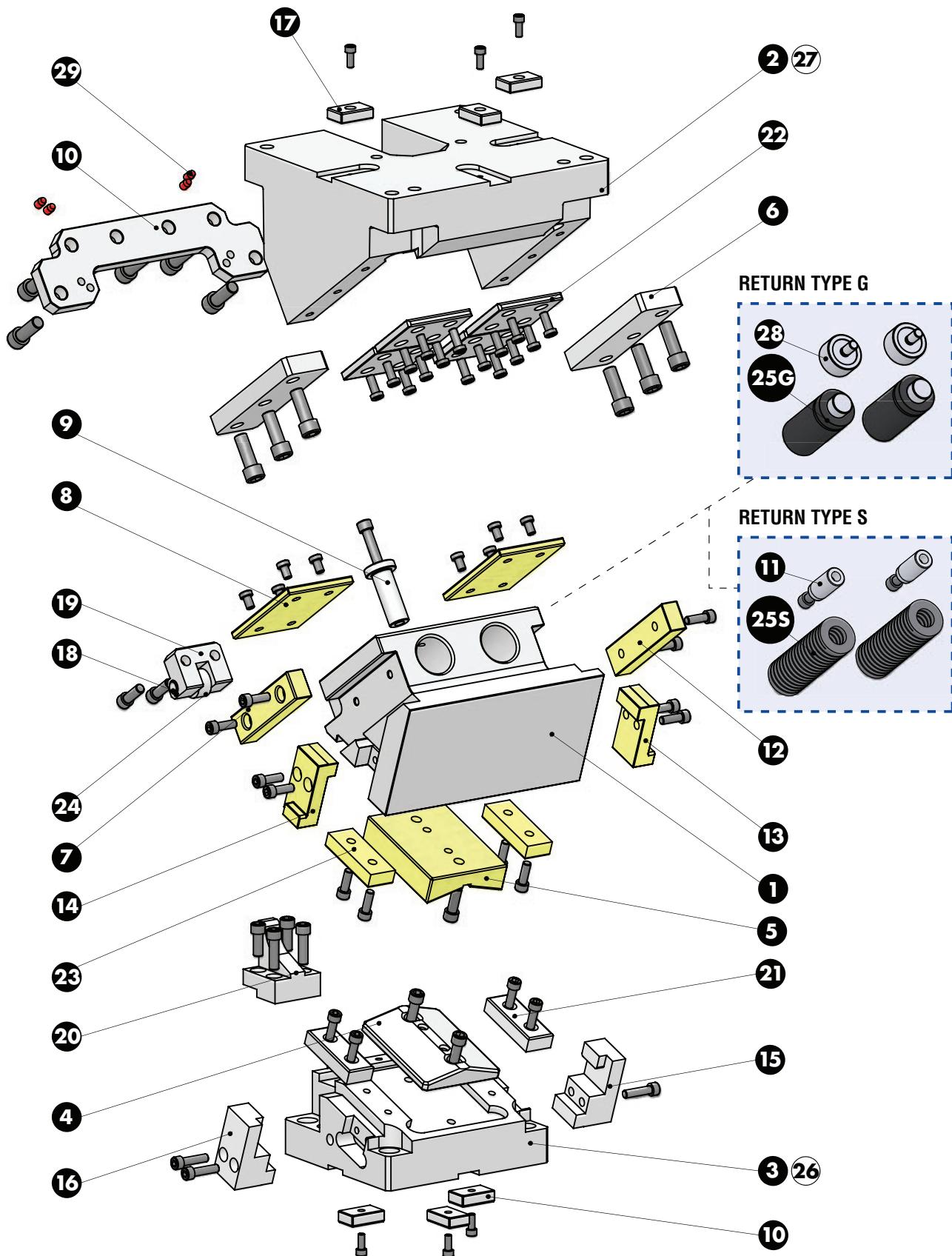


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	55°	28,68	40,96	50
5°	55°	32,26	41,11	50
10°	55°	35,90	41,59	50
15°	55°	39,65	42,40	50
20°	55°	43,59	43,59	50
25°	55°	47,78	45,19	50
30°	55°	52,33	47,29	50
35°	55°	57,36	50,00	50
40°	55°	63,05	53,47	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





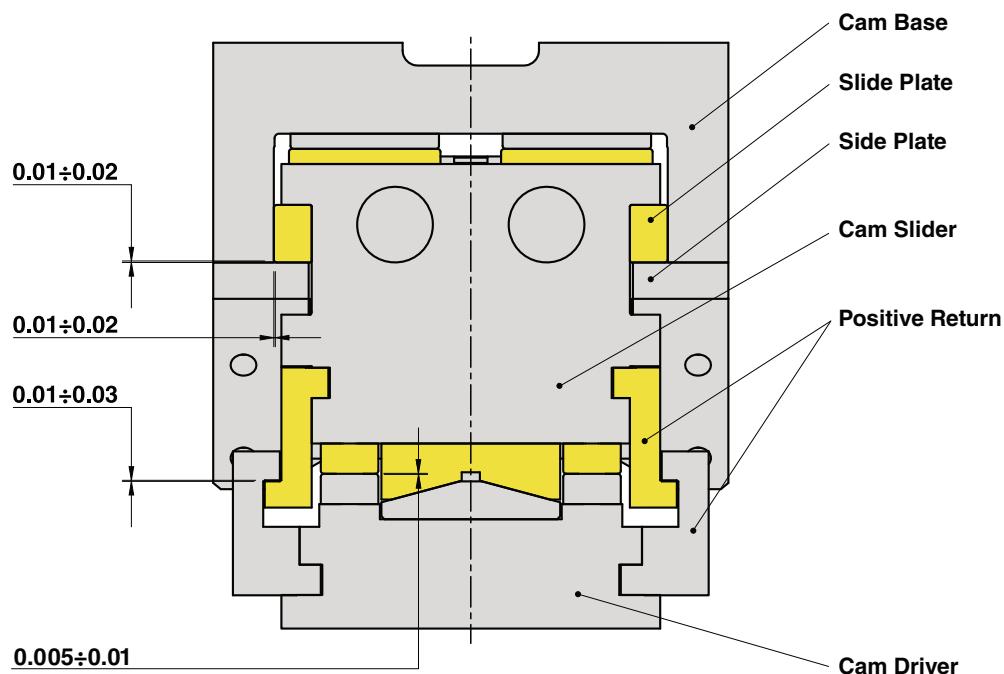
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





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



OMCR®
STANDARD DIE COMPONENTS



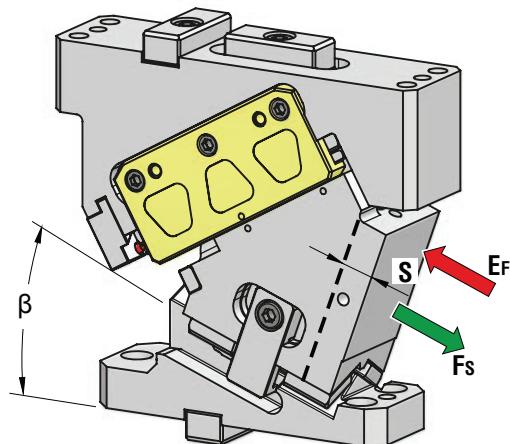
OMCR CODE	Work Angle β	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10^6 cycles (kN)		Extraction Force (kN)	Page number
					Fs	Ef		
CHV050	0°÷75° (5° steps)	50	175÷195	50x100	92÷110	4,5÷6,1	666	
CHV060	0°÷75° (5° steps)	60	210	60x100	136÷143	5,1÷6,2	670	
CHV085	0°÷75° (5° steps)	85	225	85x120	229÷293	7,10÷12	674	
CHV110	0°÷75° (5° steps)	110	275	110x160	357÷407	6,2÷16,8	678	
CHV150	0°÷75° (5° steps)	150	300	150x160	421÷584	17,3÷20,8	682	
CHV180	0°÷75° (5° steps)	180	300	180x160	474÷598	17,1÷20,5	686	
CHV220	0°÷75° (5° steps)	220	300	220x160	635÷732	16,6÷46,2	690	
CHV260	0°÷75° (5° steps)	260	300	260x160	536÷767	16,6÷46,2	694	
CHV330	0°÷75° (5° steps)	330	375	330x180	1005÷1020	46,5÷94,9	698	
CHV400	0°÷75° (5° steps)	400	375	400x180	1052÷1055	48÷87,1	702	
CHV500	0°÷75° (5° steps)	500	375	500x180	1155	64,5÷87,0	706	
CHV600	0°÷75° (5° steps)	600	400	600x200	1202	84,2÷98,2	712	



Leading edge five axis machines



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)
	β	S	F _s	E _F
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



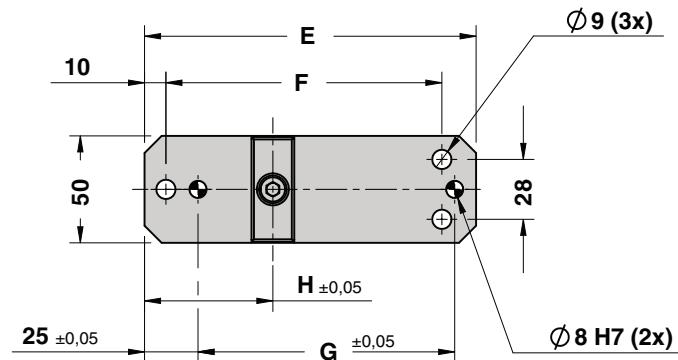
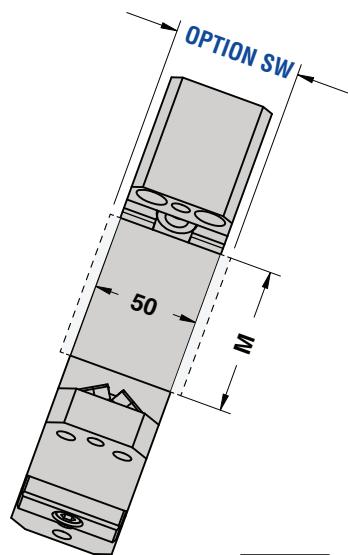
OPTION CODE		
Art.	Work Angle = 5°	SW
CHV050	05	SW60

OMCR CODE	Work Angle	Overall Dimensions (mm)													M	N
		β	A	B	C	D	E	F	G	H	I	J	K	L		
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

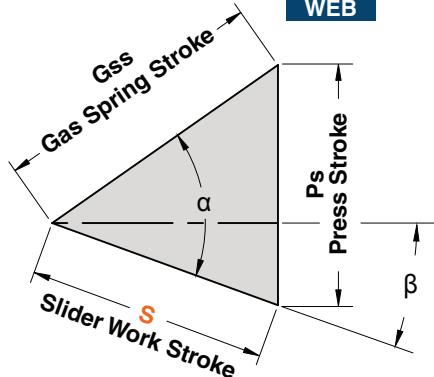
X VIEW



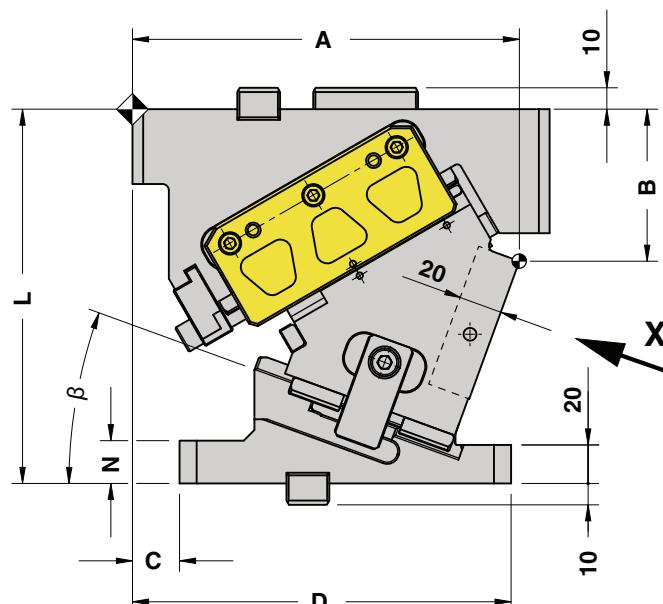
CAM DIAGRAM



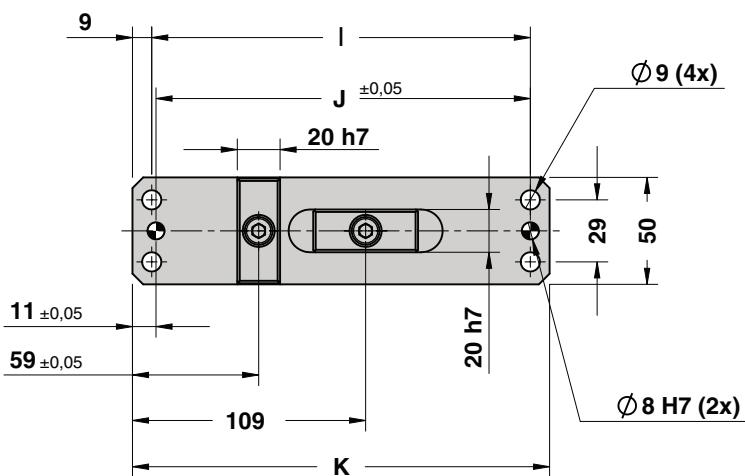
WEB



Cam Units CHV

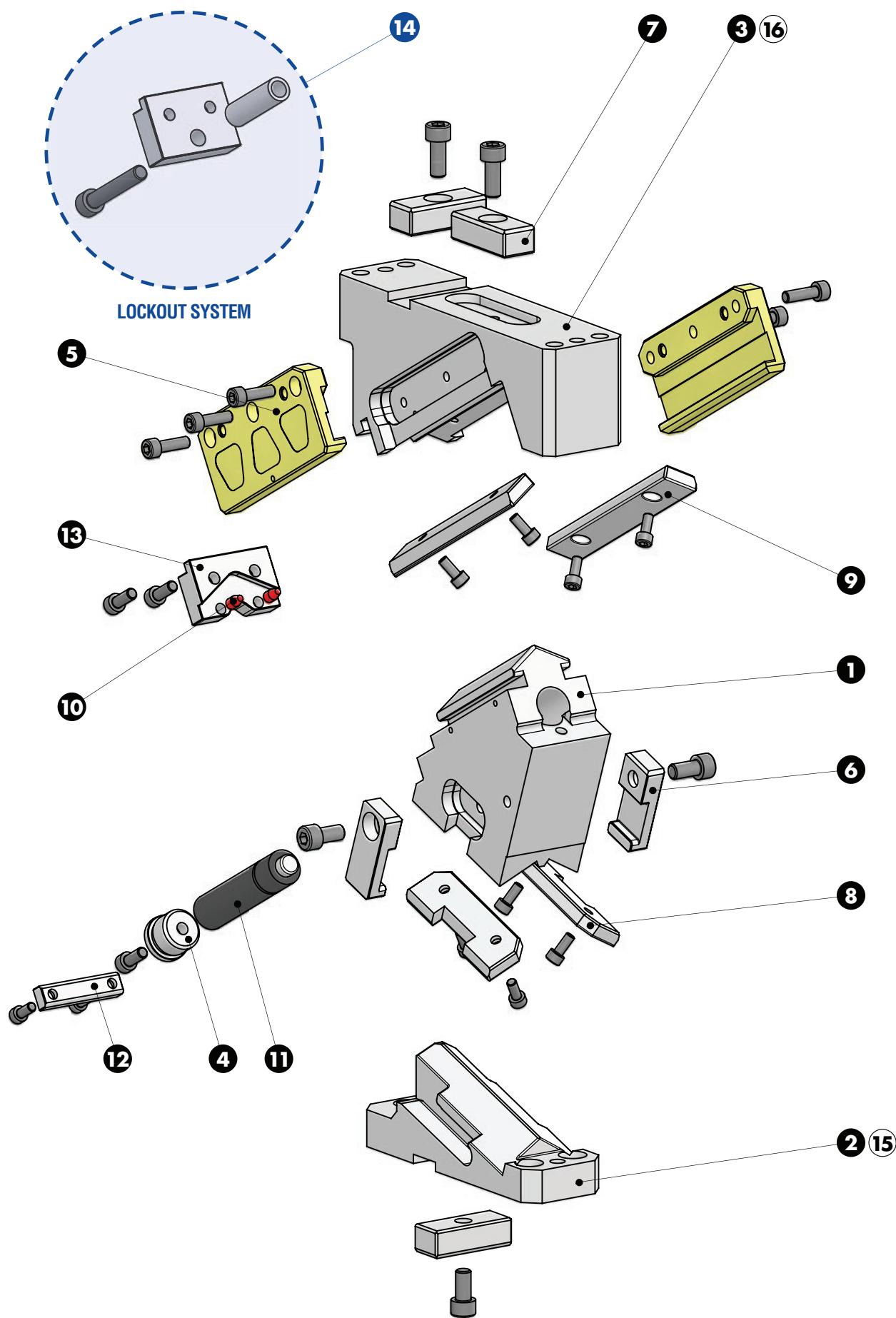


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	28,93	34,47	45
5°	50°	31,94	34,60	45
10°	50°	35,00	35,00	45
15°	50°	38,16	35,69	45
20°	50°	41,47	36,68	45
25°	50°	45,00	38,04	45
30°	50°	48,83	39,80	45
35°	50°	53,06	42,08	45
40°	50°	57,85	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





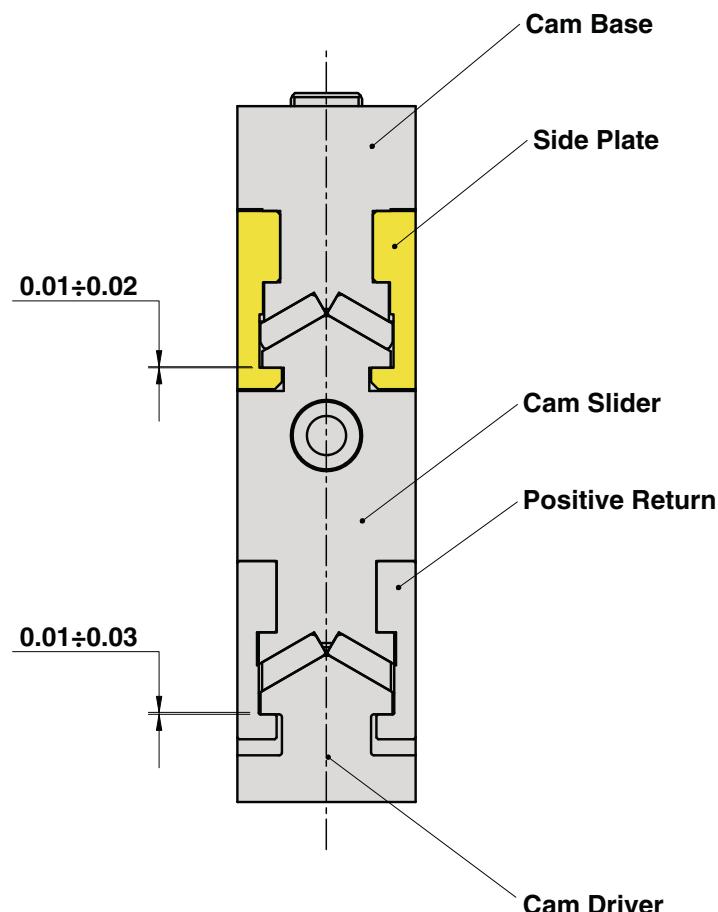
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



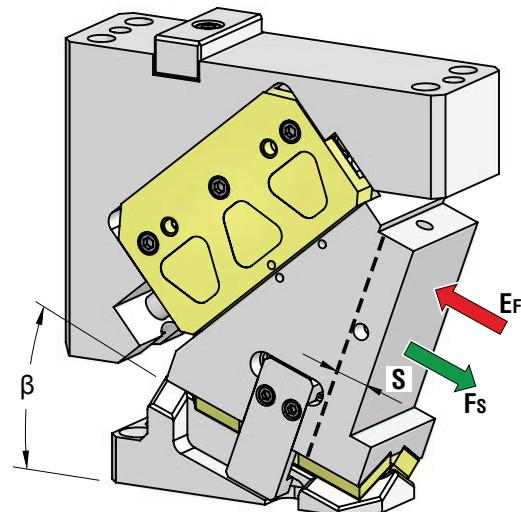
Cam Units CHV

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



WEB



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OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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



ORDER EXAMPLE

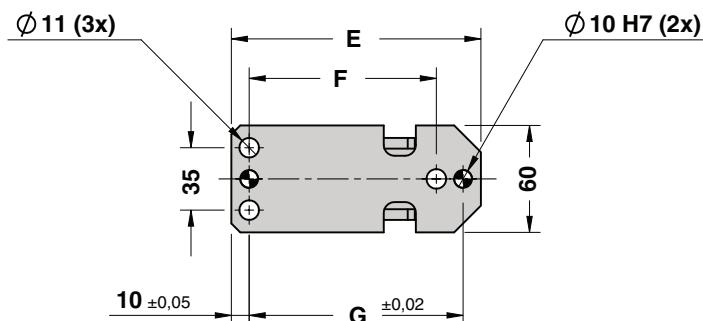
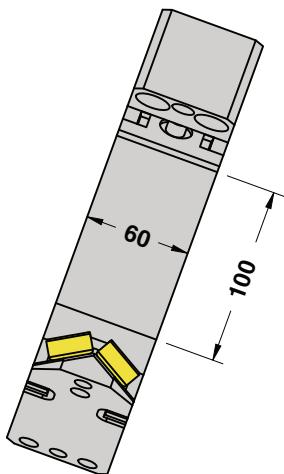
Art.	Work Angle = 5°
CHV060	05

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

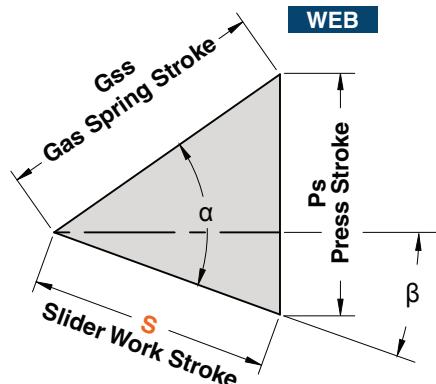
X VIEW



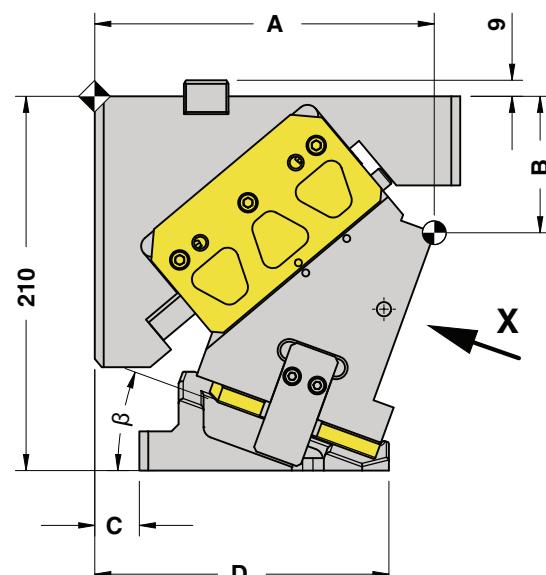
CAM DIAGRAM



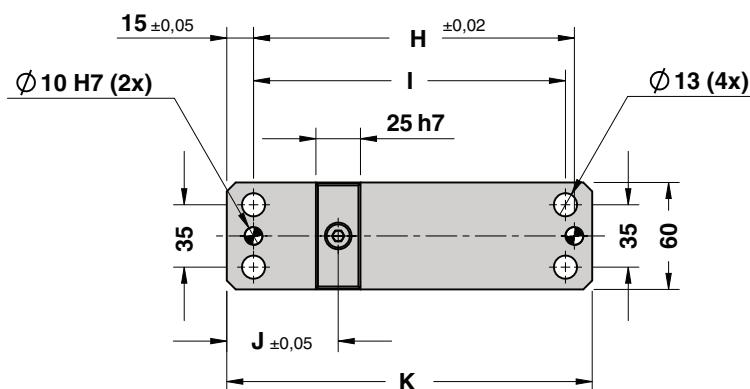
WEB



Cam Units CHV

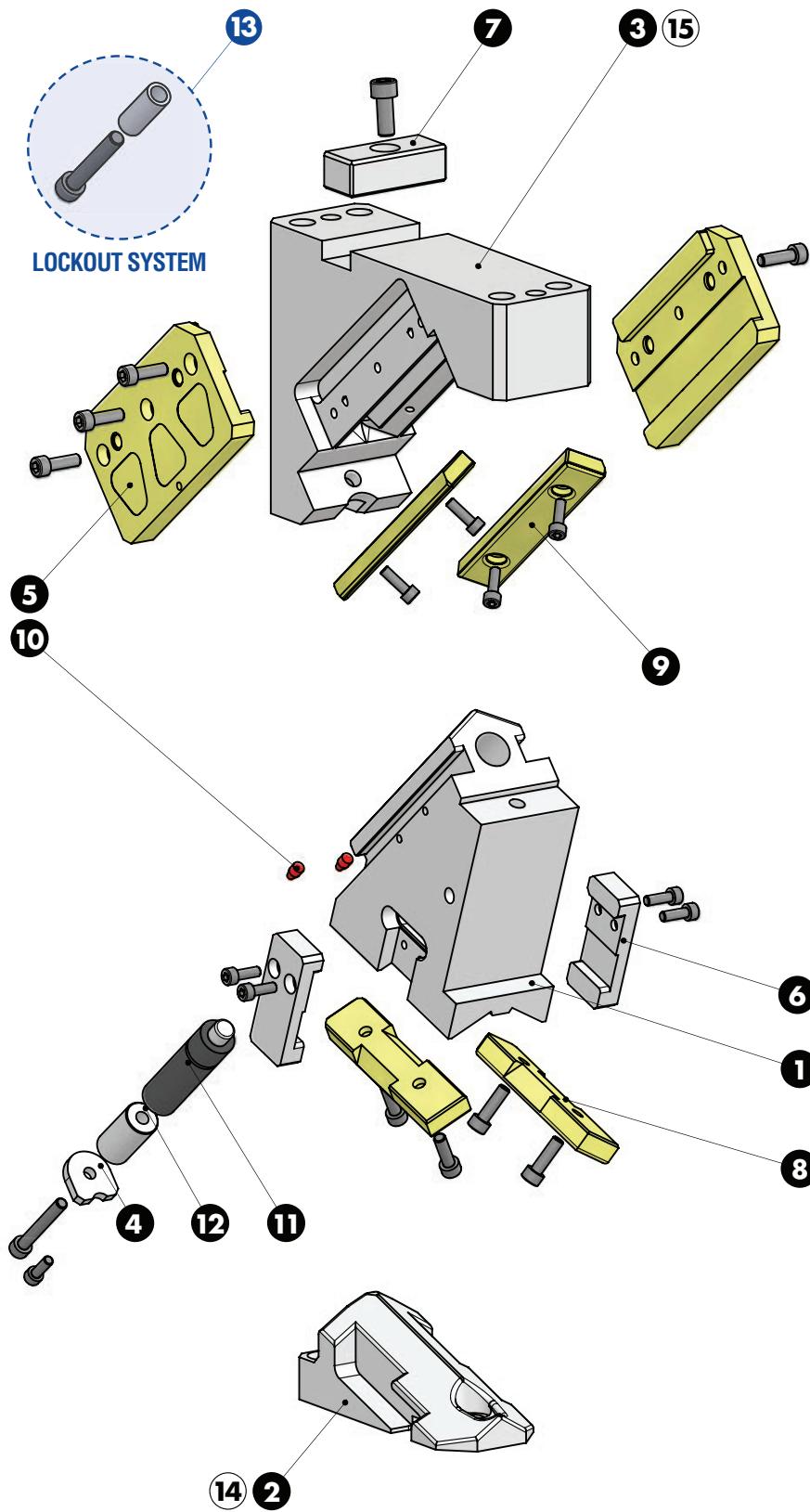


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	19,28	22,98	30
5°	50°	21,29	23,07	30
10°	55°	21,54	24,95	30
15°	55°	23,79	25,44	30
20°	60°	24,46	27,65	30
25°	60°	27,12	28,67	30
30°	60°	30,00	30,00	30
35°	65°	31,72	33,19	30
40°	65°	35,49	35,49	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





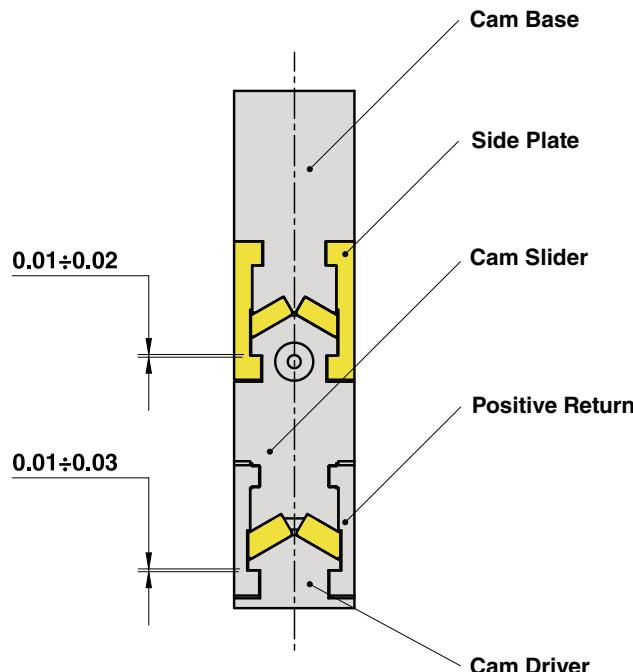
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

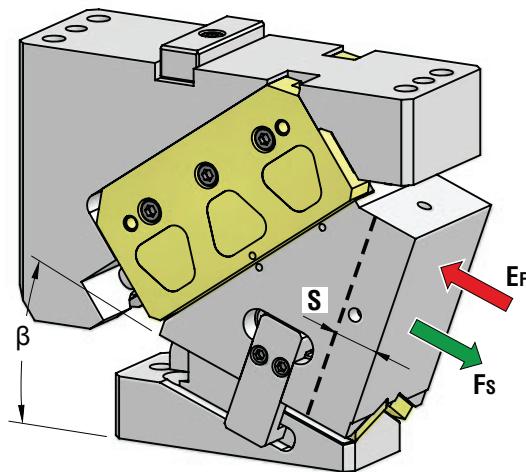


PART LIST

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



WEB



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OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	Fs	E_F
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



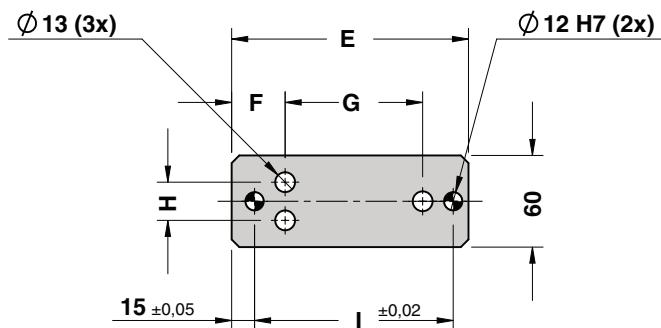
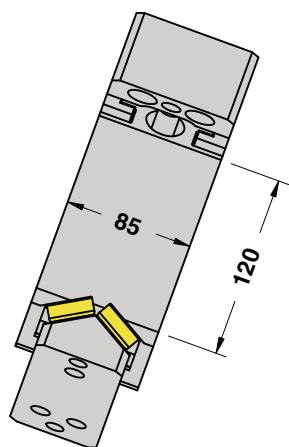
Art.	Work Angle = 5°
	CHV085

OMCR CODE	Work Angle	Overall Dimensions (mm)											
		β	A	B	C	D	E	F	G	H	I	J	K
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

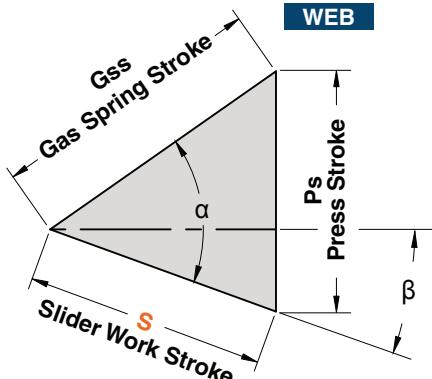
X VIEW



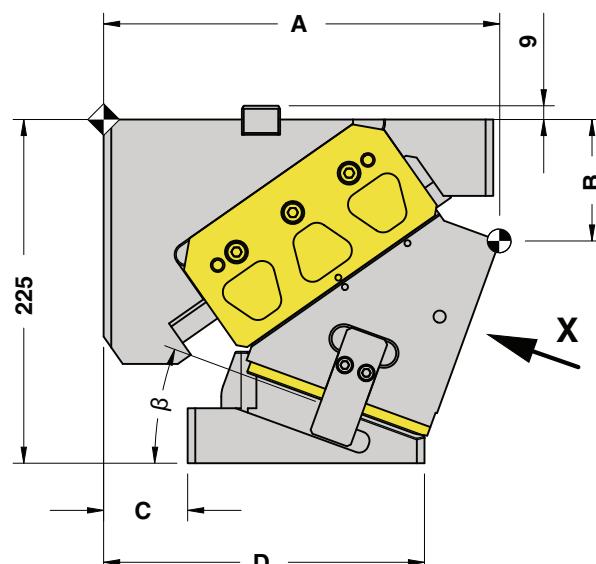
CAM DIAGRAM



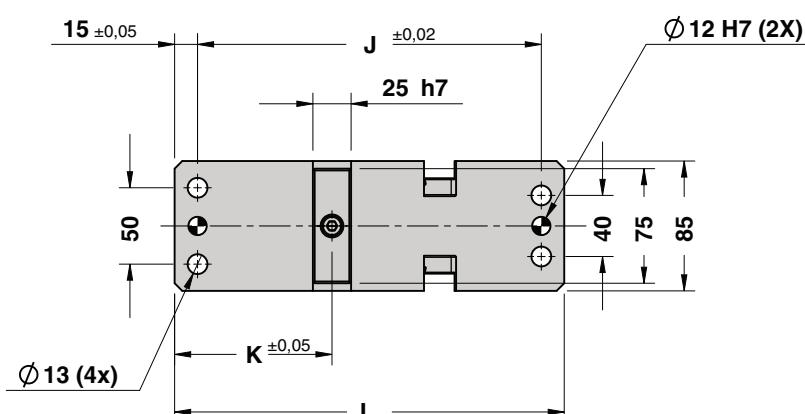
WEB



Cam Units CHV

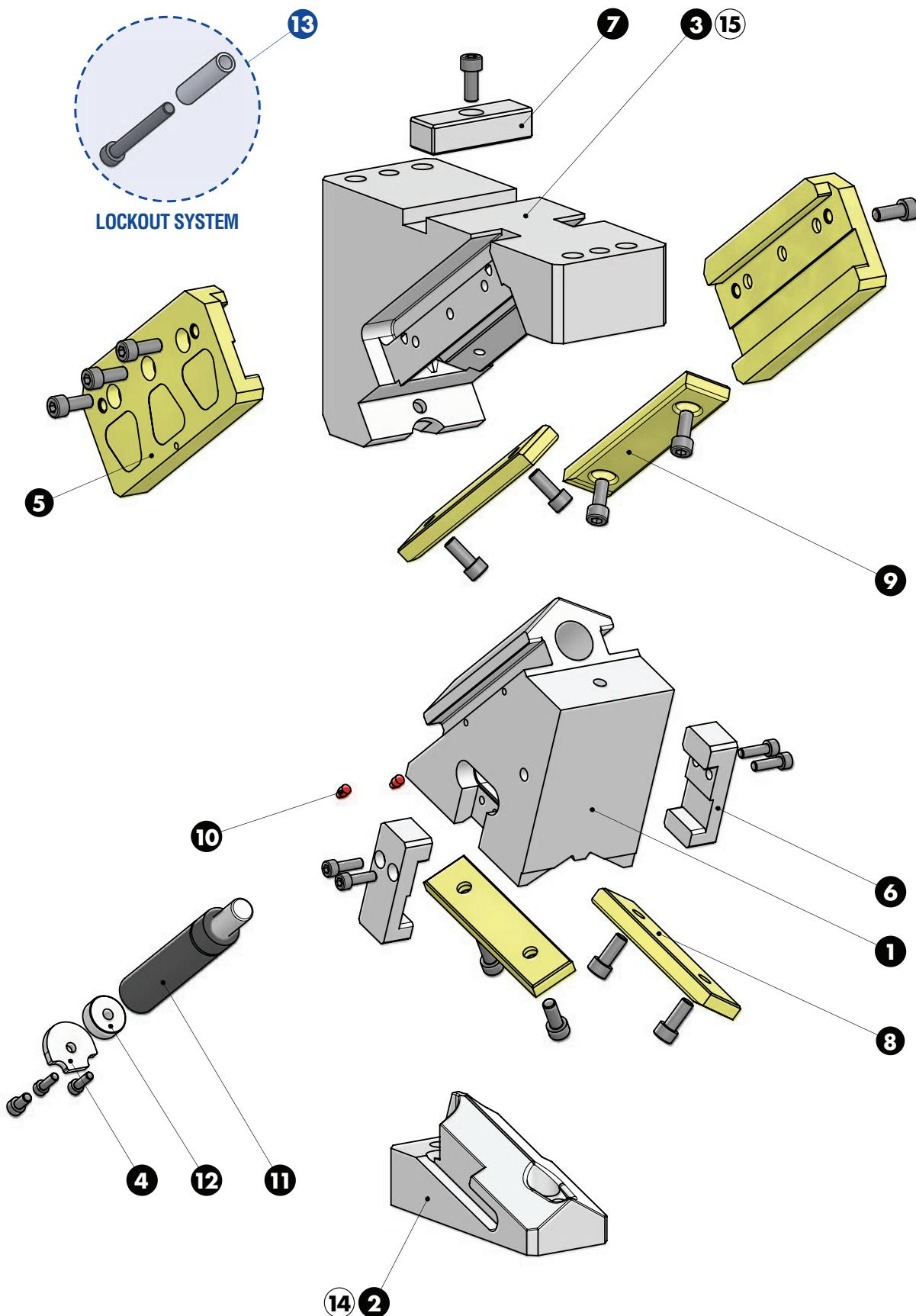


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	30,85	36,77	48
5°	50°	34,07	36,91	48
10°	55°	34,46	39,93	48
15°	55°	38,07	40,71	48
20°	55°	41,84	41,84	48
25°	60°	43,38	45,87	48
30°	60°	48,00	48,00	48
35°	65°	50,75	53,11	48
40°	65°	56,79	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





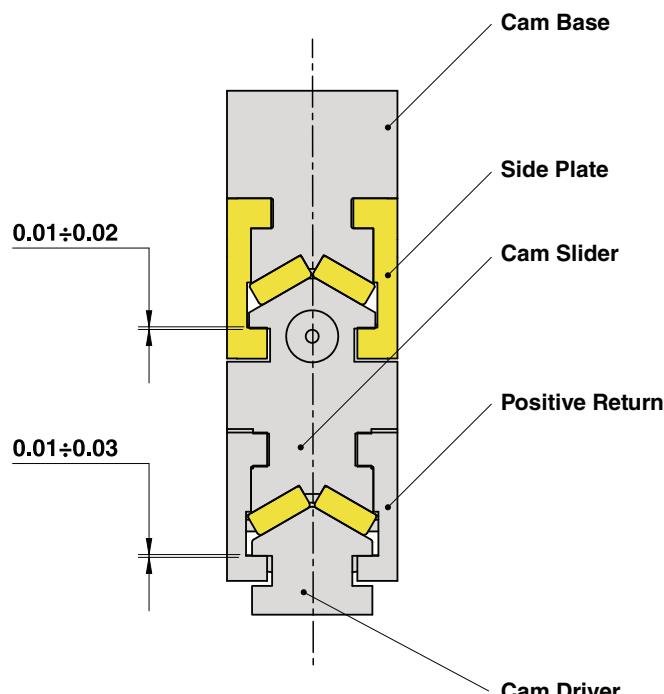
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



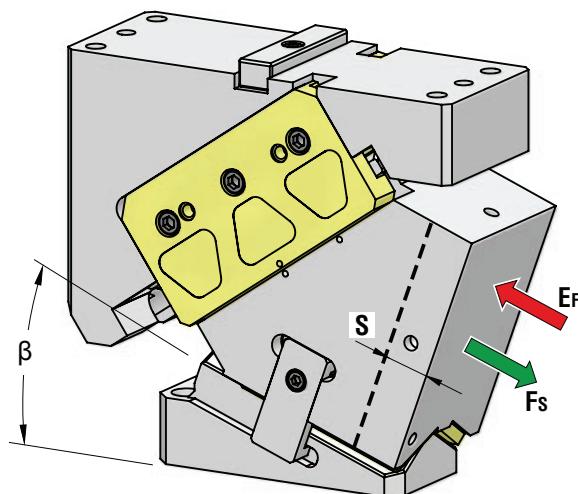
Cam Units CHV

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



WEB



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P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				E _F	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	



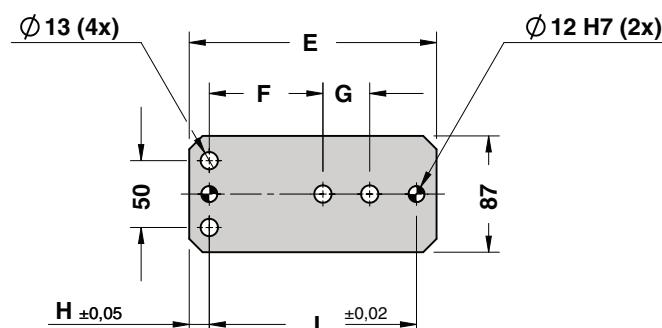
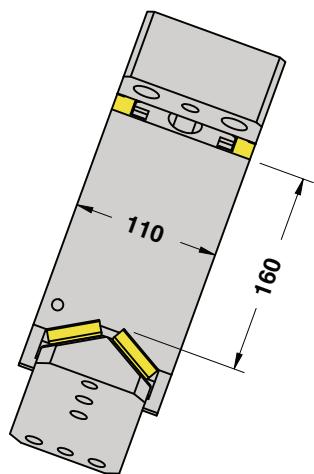
Art.	Work Angle = 5°	
	CHV110	05

OMCR CODE	Work Angle β	Overall Dimensions (mm)												
		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

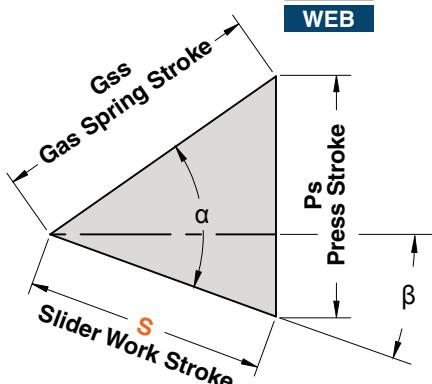


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

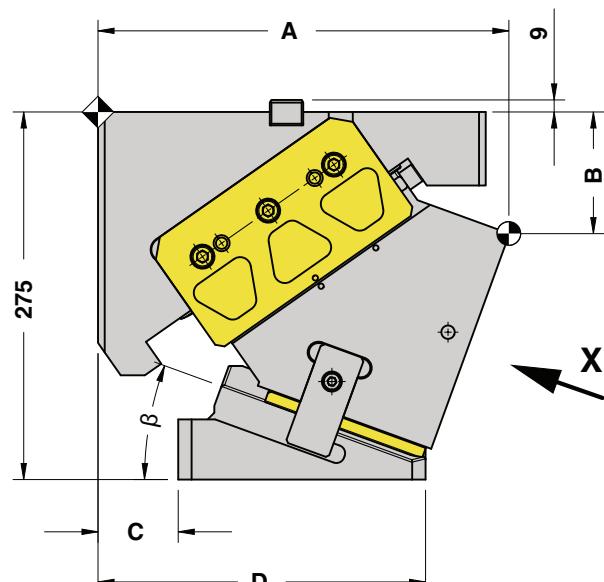
X VIEW



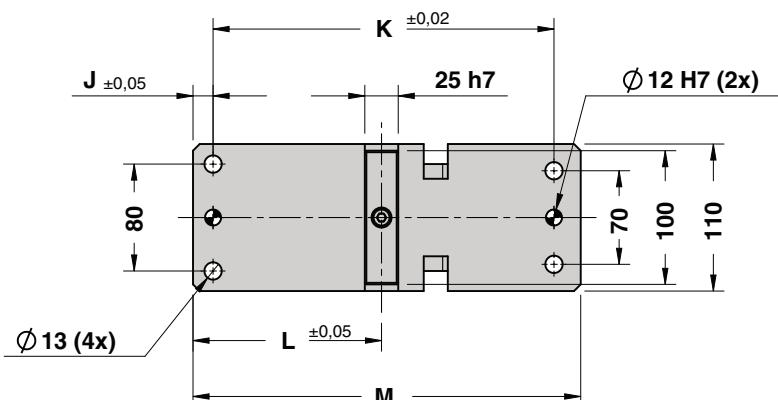
CAM DIAGRAM



Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
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

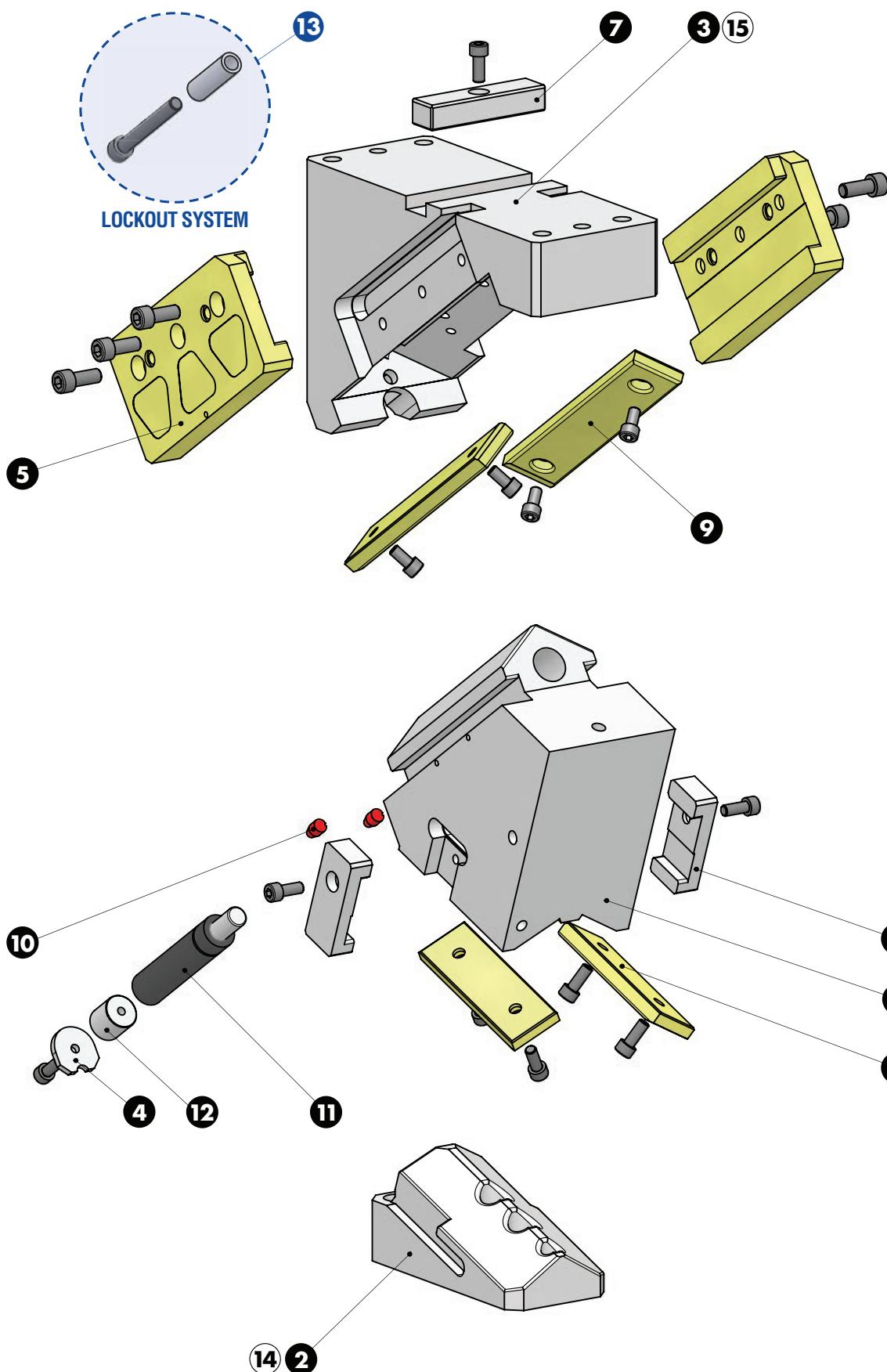


Cam Units CHV





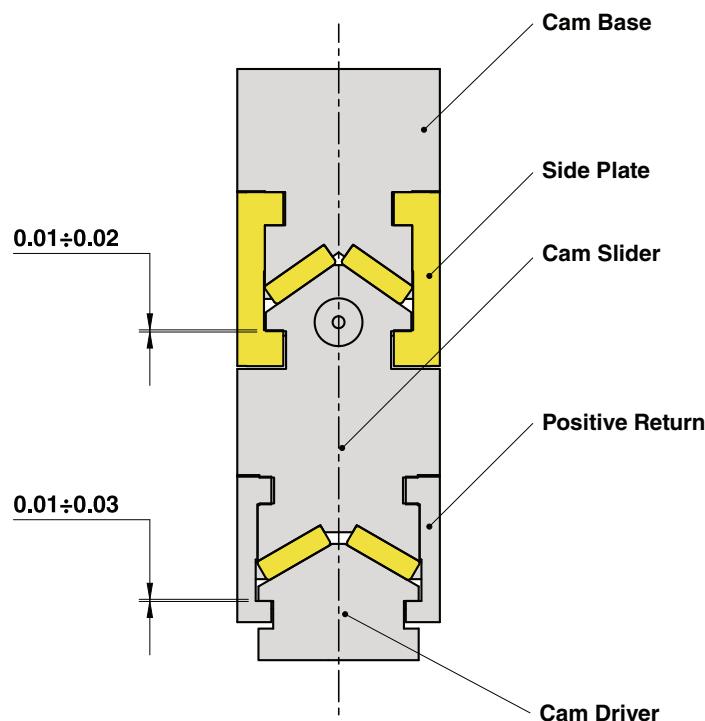
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

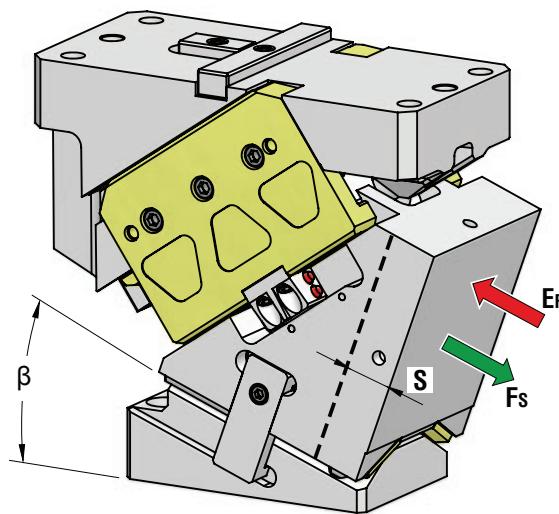


PART LIST

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



WEB



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P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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



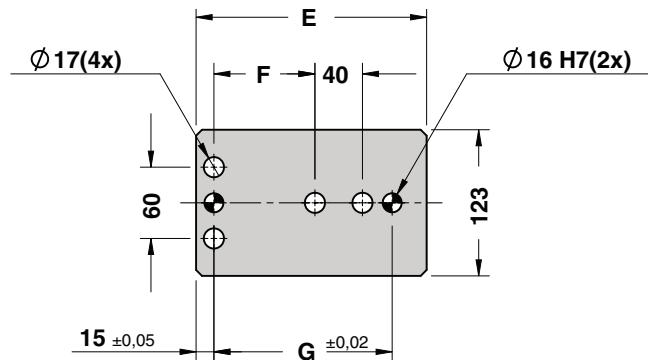
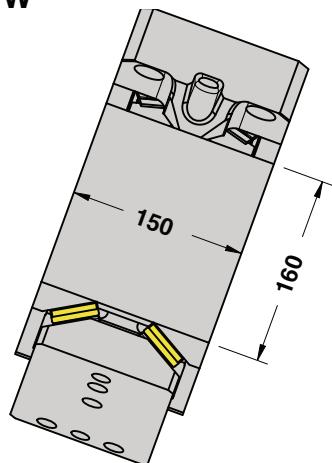
Art.	Work Angle = 5°
CHV150	05

OMCR CODE	Work Angle	Overall Dimensions (mm)											
		β	A	B	C	D	E	F	G	H	I	J	K
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

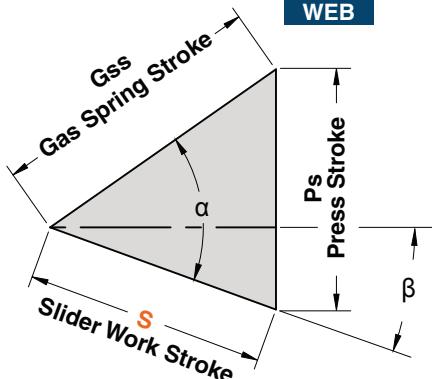
X VIEW



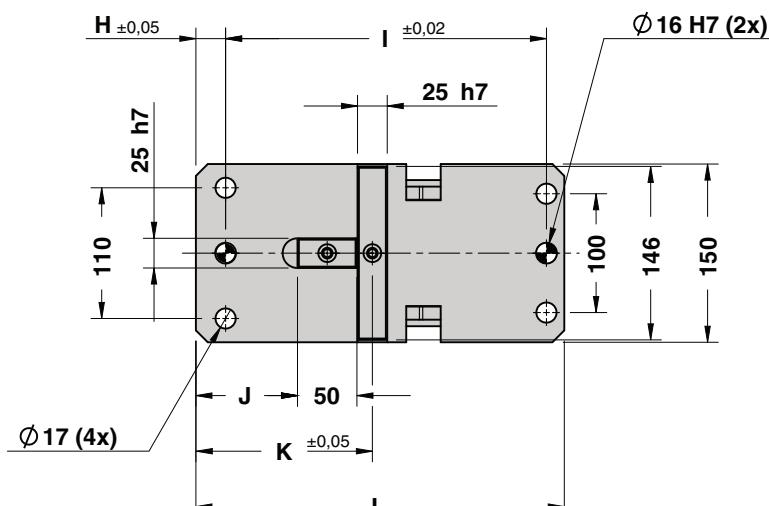
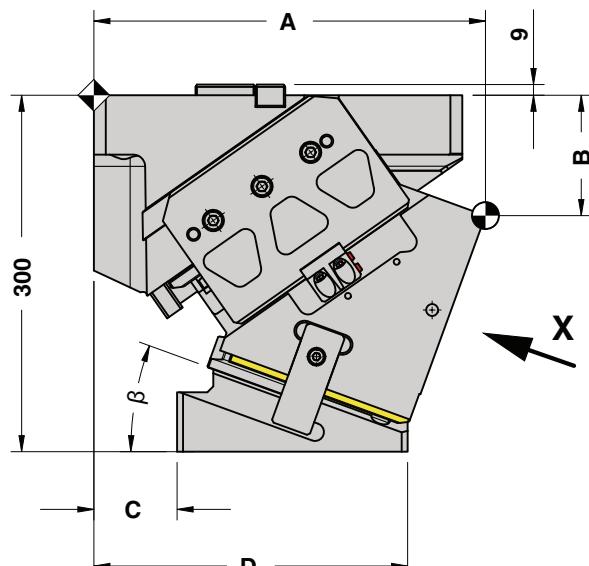
CAM DIAGRAM



WEB

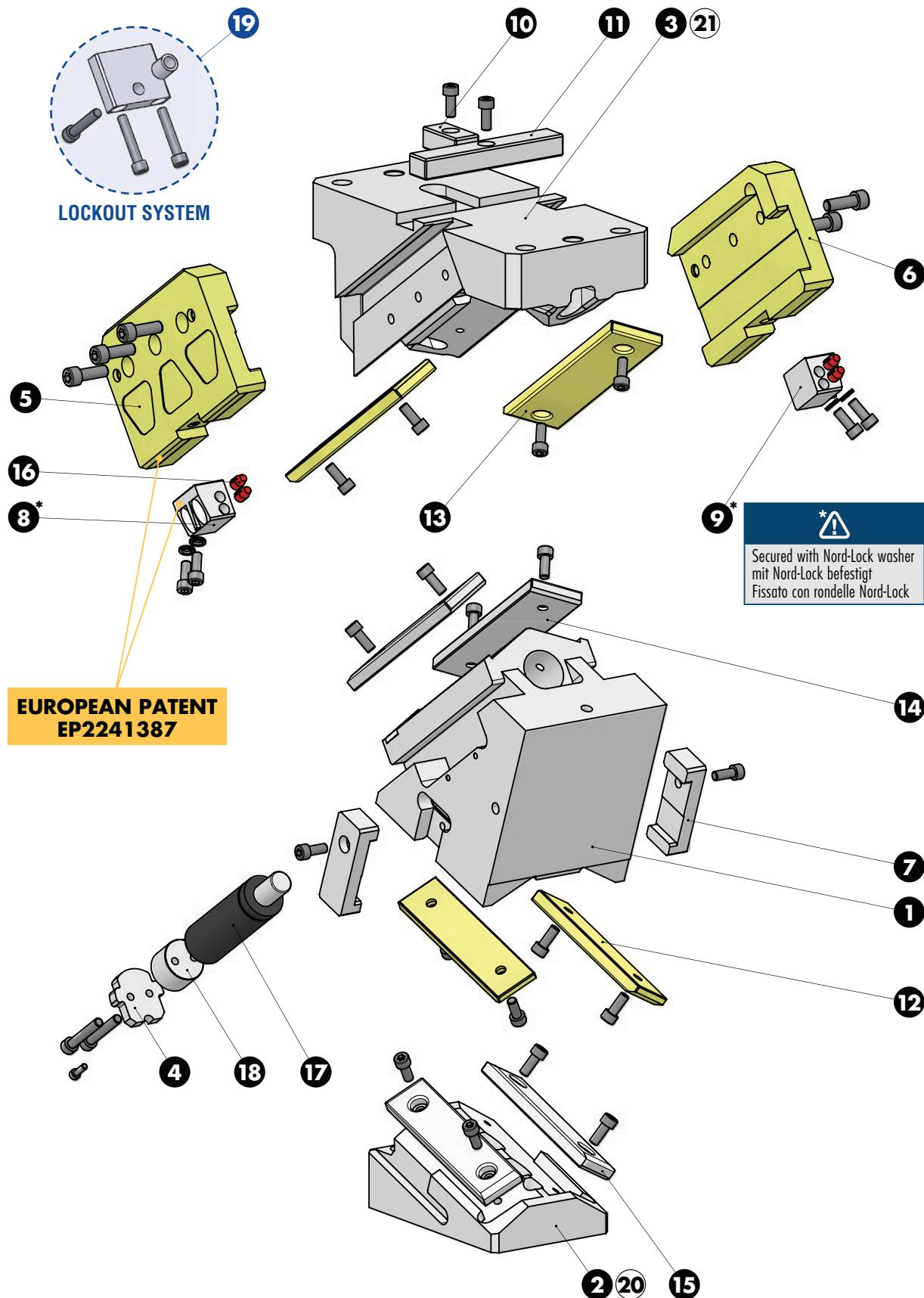


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	32,14	38,30	50
5°	50°	35,49	38,45	50
10°	55°	35,90	41,59	50
15°	55°	39,65	42,40	50
20°	55°	43,59	43,59	50
25°	60°	45,19	47,78	50
30°	60°	50,00	50,00	50
35°	65°	52,86	55,32	50
40°	65°	59,16	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





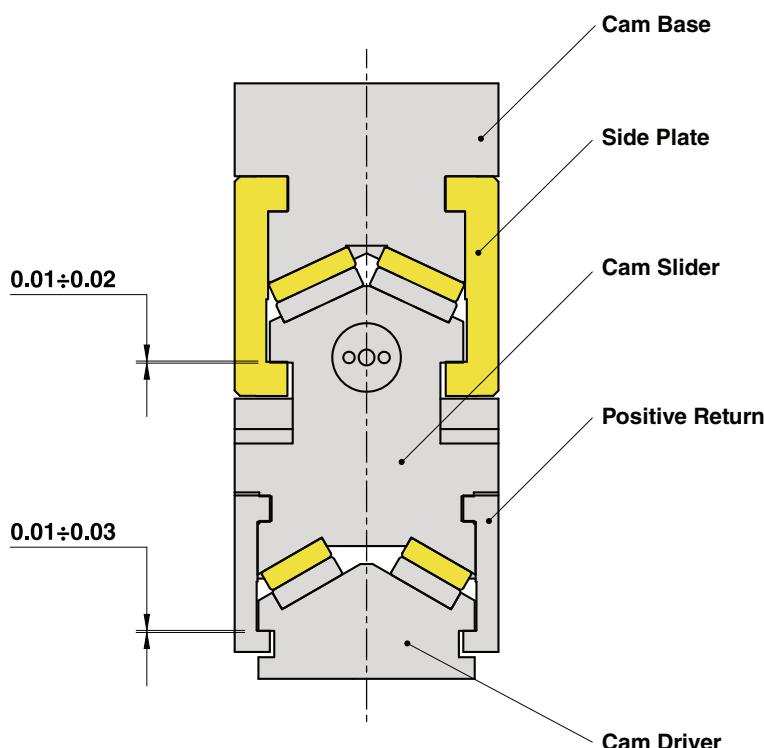
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

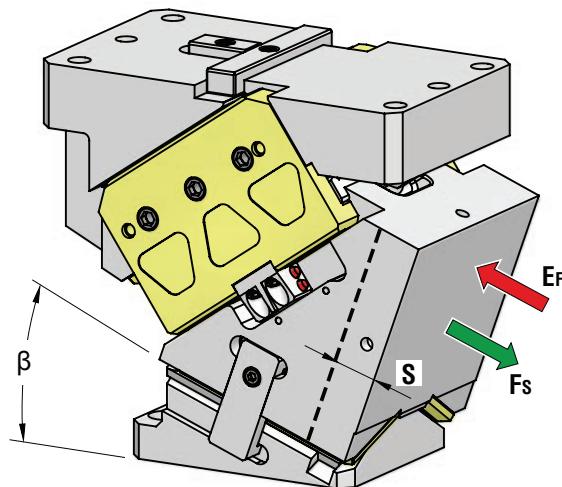


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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



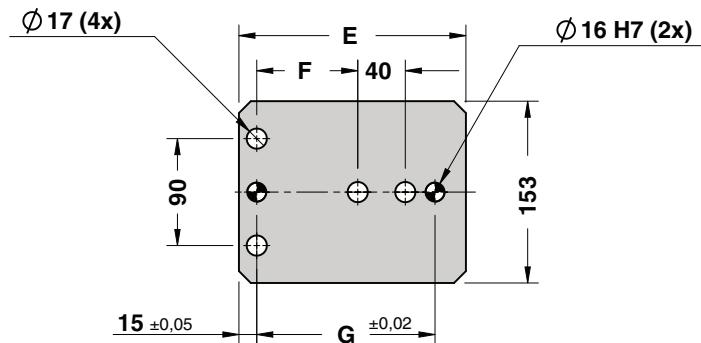
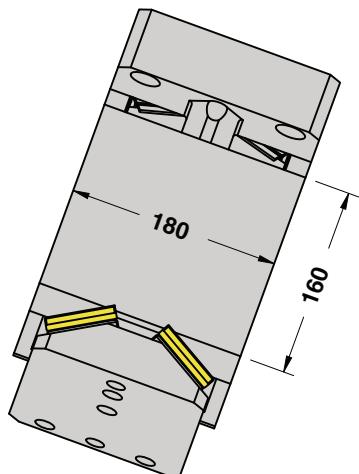
Art.	Work Angle = 5°
CHV180	05

OMCR CODE	Work Angle	Overall Dimensions (mm)											
		β	A	B	C	D	E	F	G	H	I	J	K
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

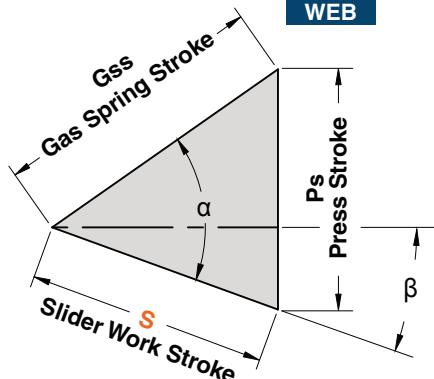
X VIEW



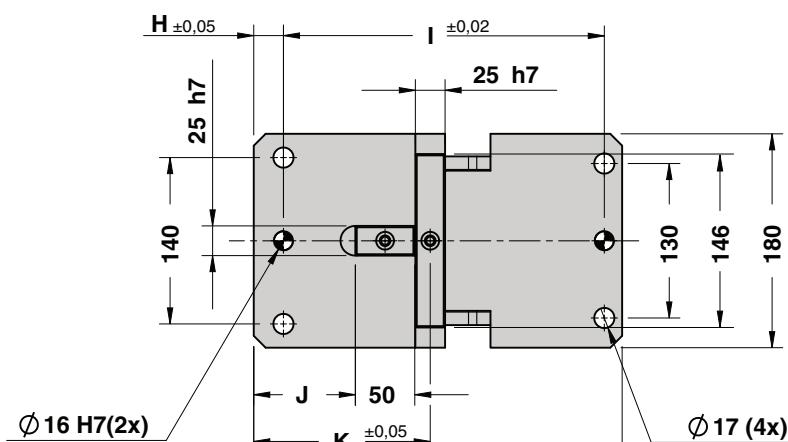
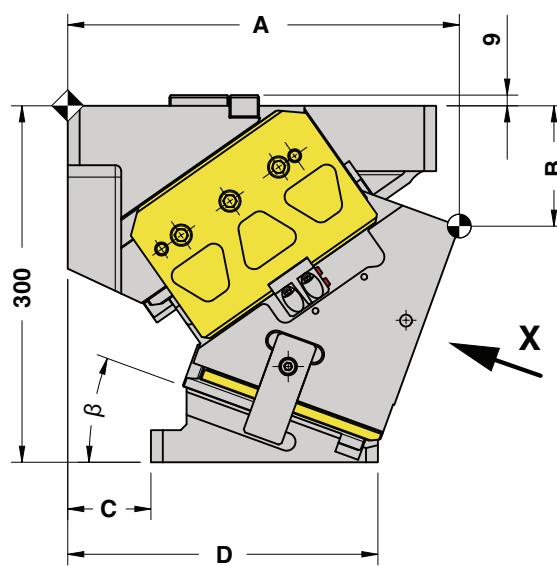
CAM DIAGRAM



WEB

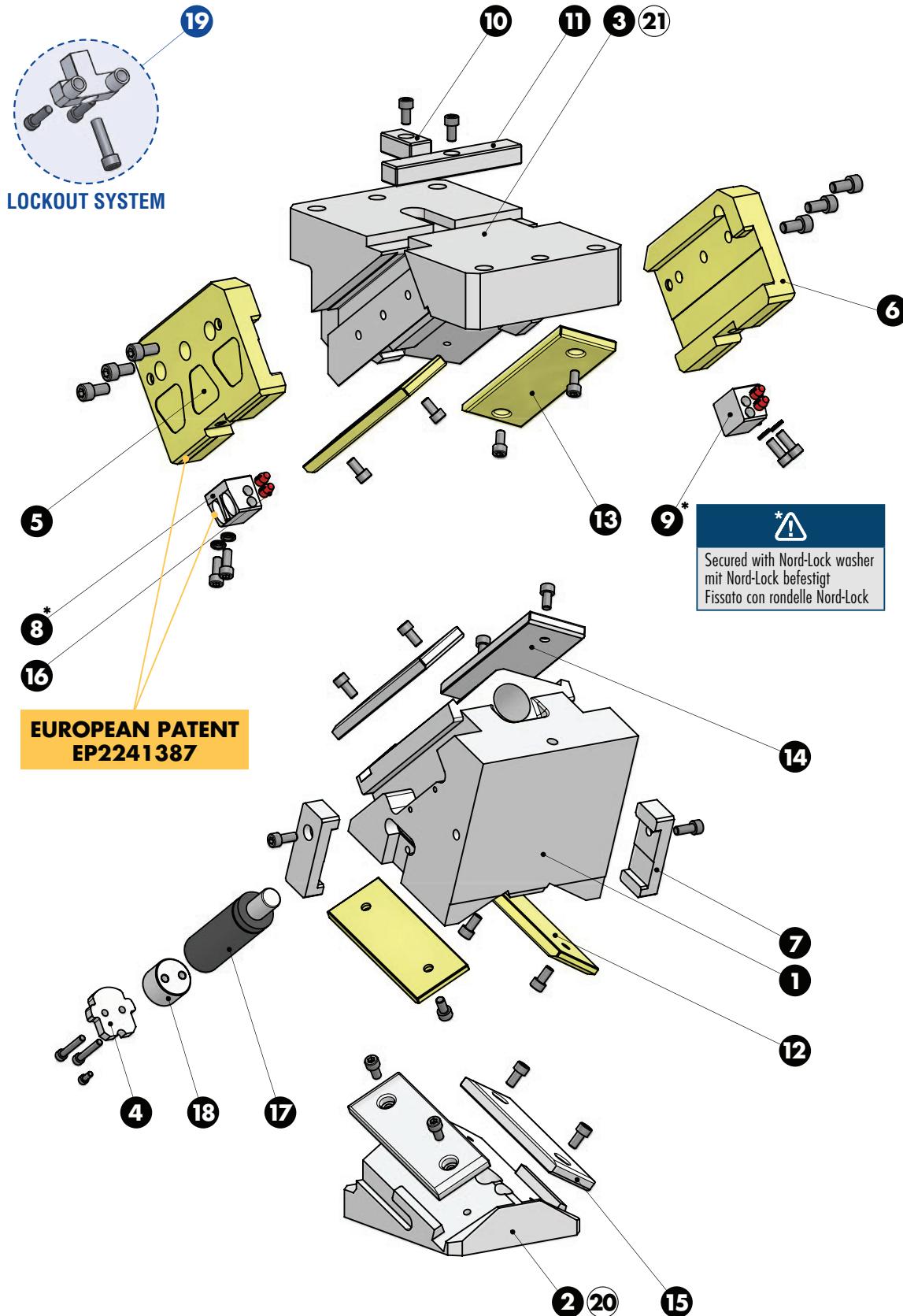


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	32,14	38,30	50
5°	50°	35,49	38,45	50
10°	55°	35,90	41,59	50
15°	55°	39,65	42,40	50
20°	55°	43,59	43,59	50
25°	60°	45,19	47,78	50
30°	60°	50,00	50,00	50
35°	65°	52,86	55,32	50
40°	65°	59,16	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





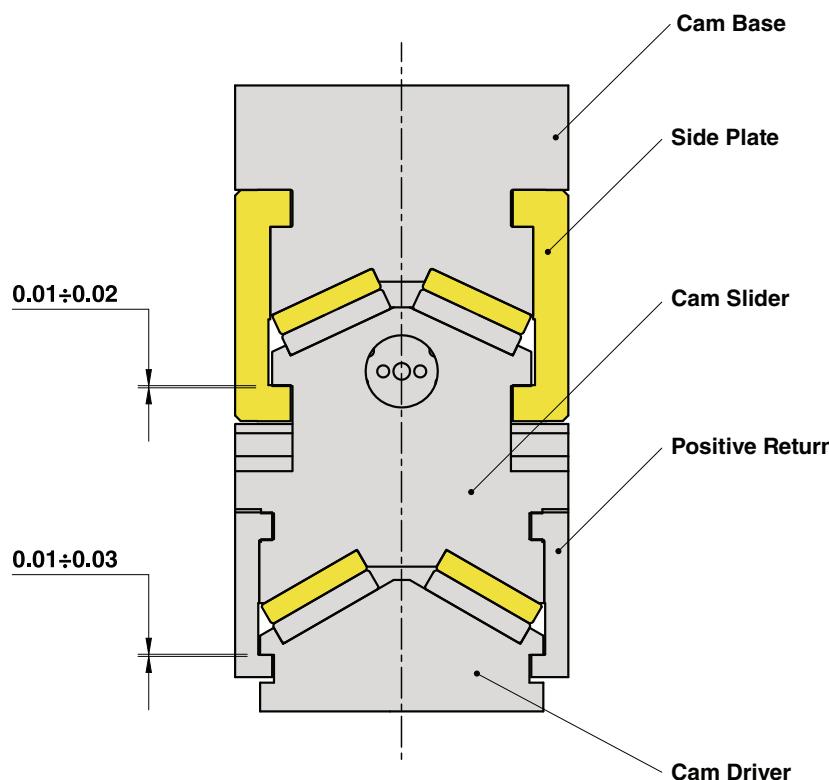
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

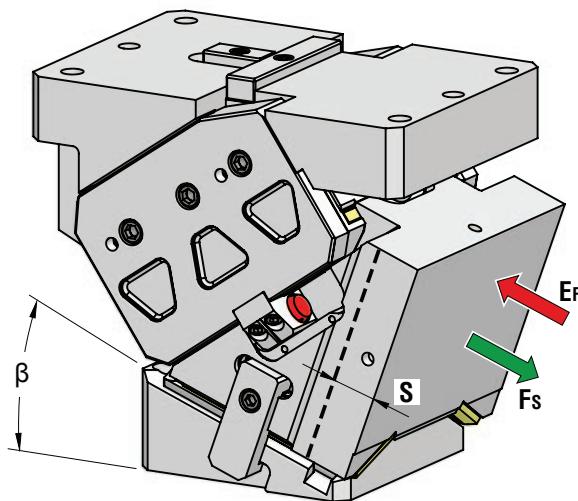


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S		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



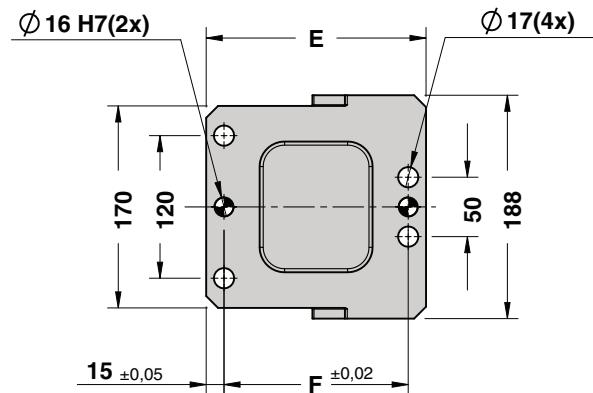
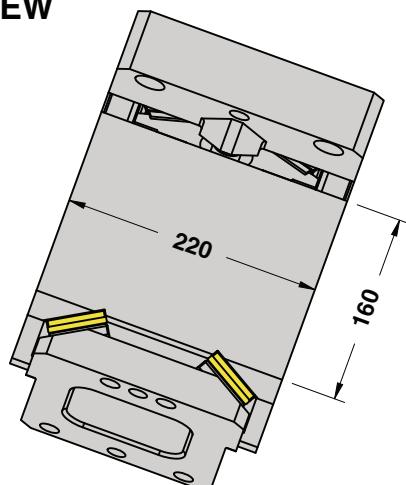
Art.	Work Angle = 5°	
	CHV220	05

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

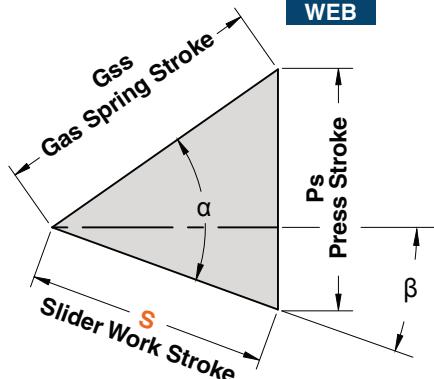
X VIEW



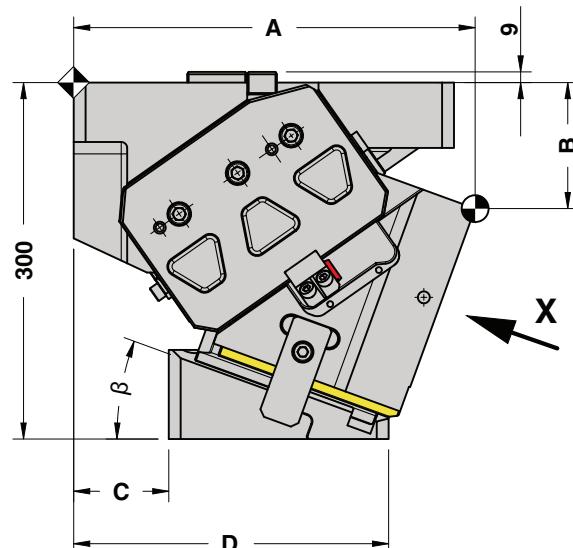
CAM DIAGRAM



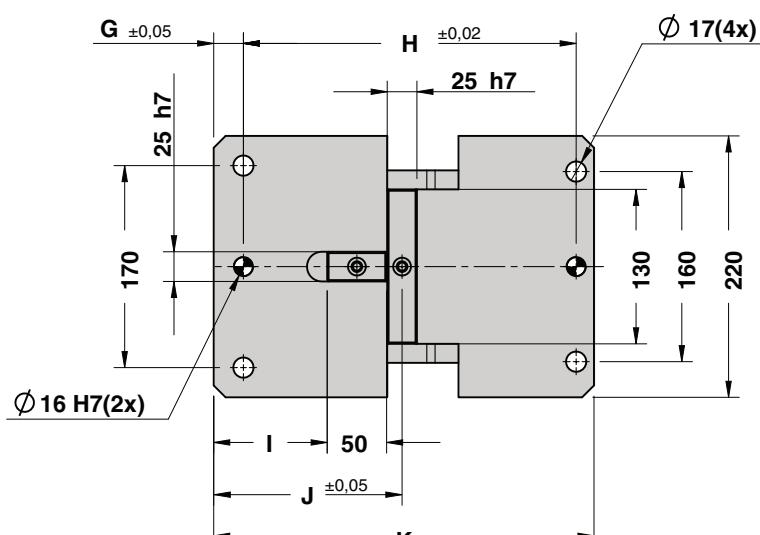
WEB



Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
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

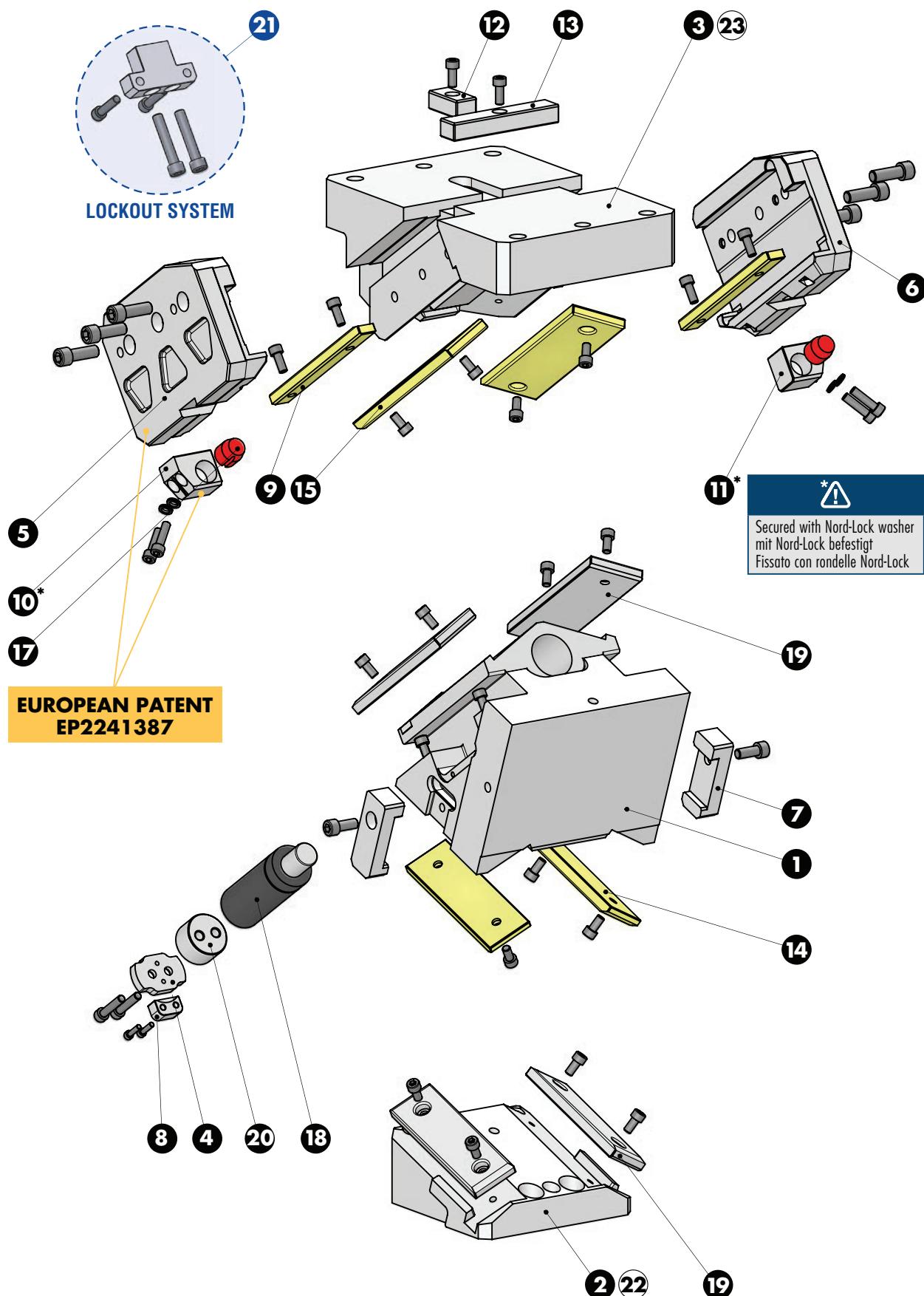


Cam Units CHV





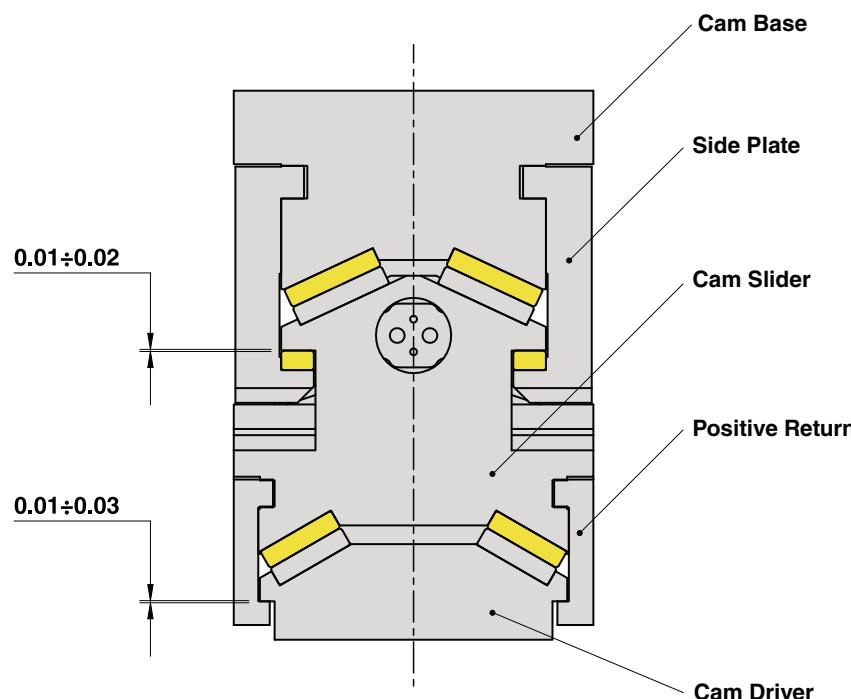
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

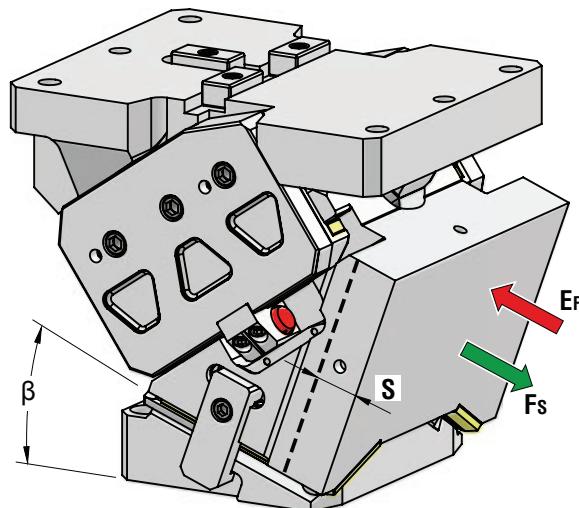


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)		
				S	F _s	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	



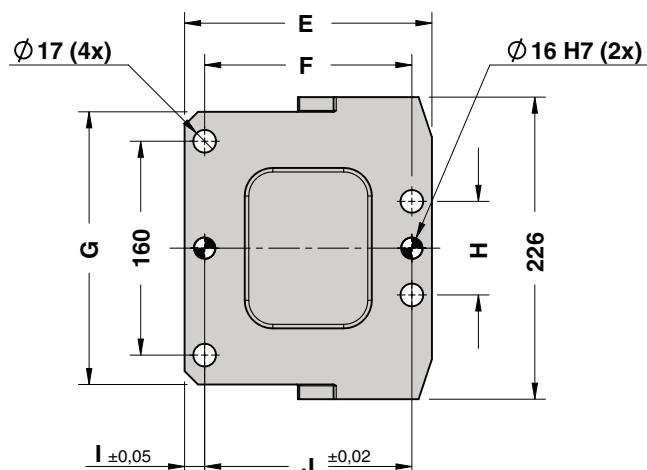
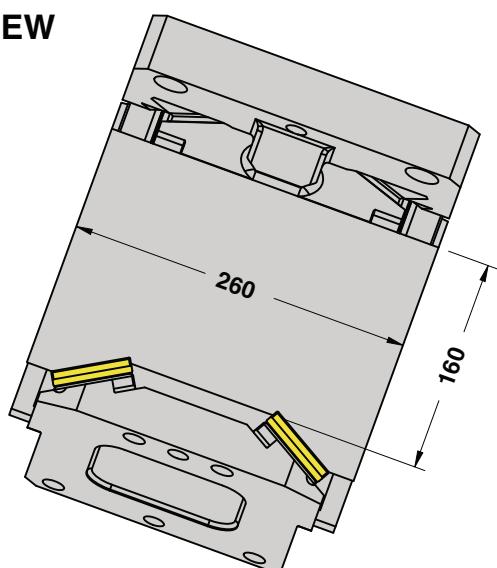
Art.	Work Angle = 5°	
	CHV260	05

OMCR CODE	Work Angle β	Overall Dimensions (mm)															
		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

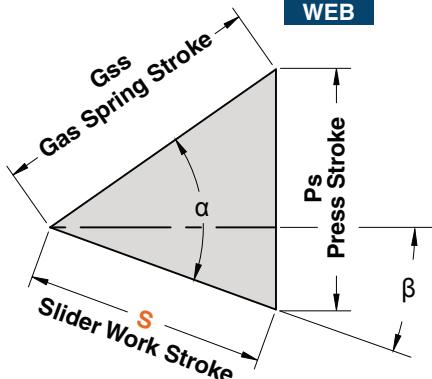
X VIEW



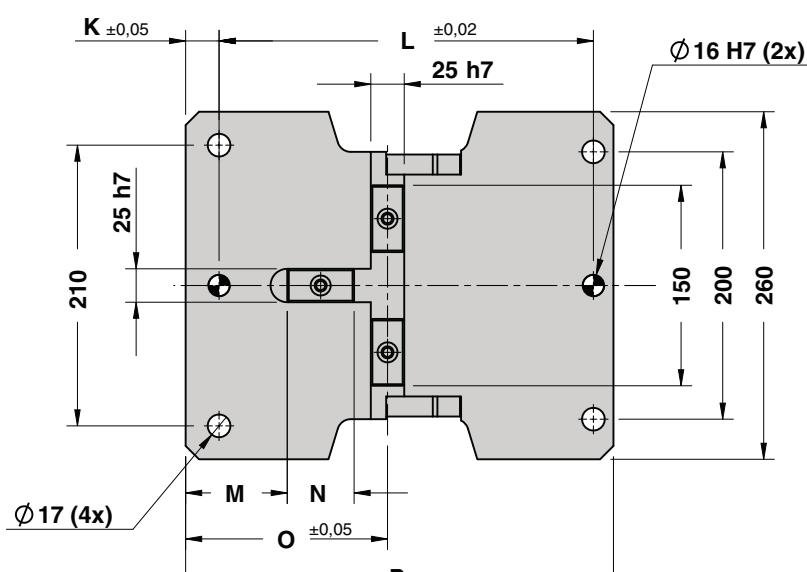
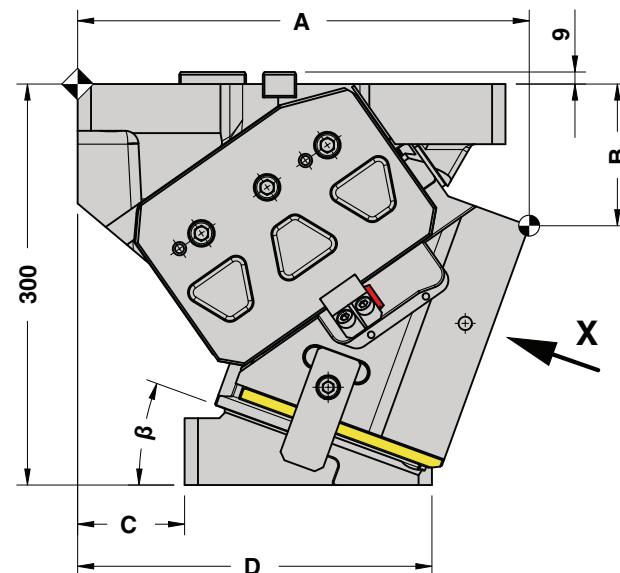
CAM DIAGRAM



WEB



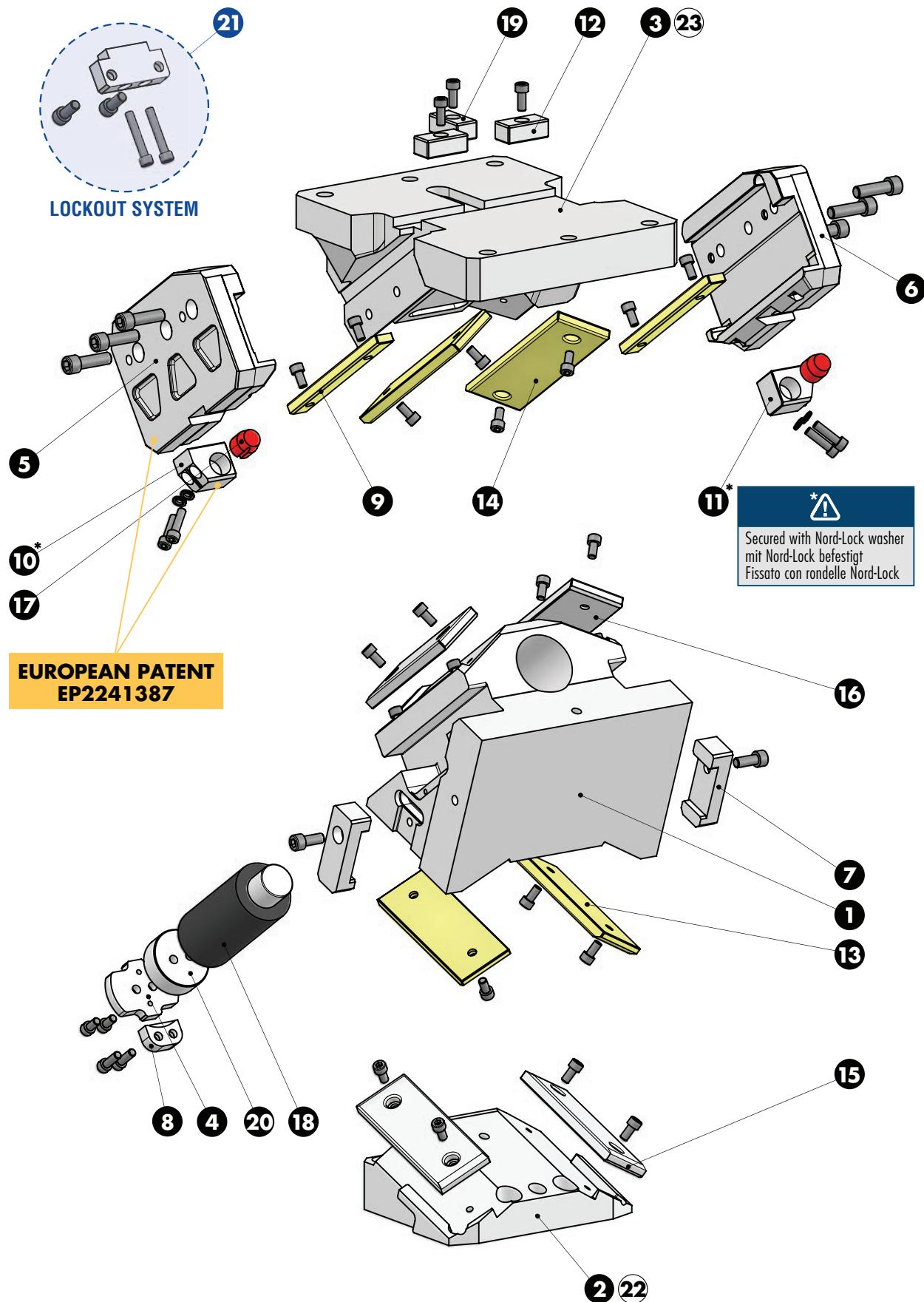
Cam Units CHV



Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
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



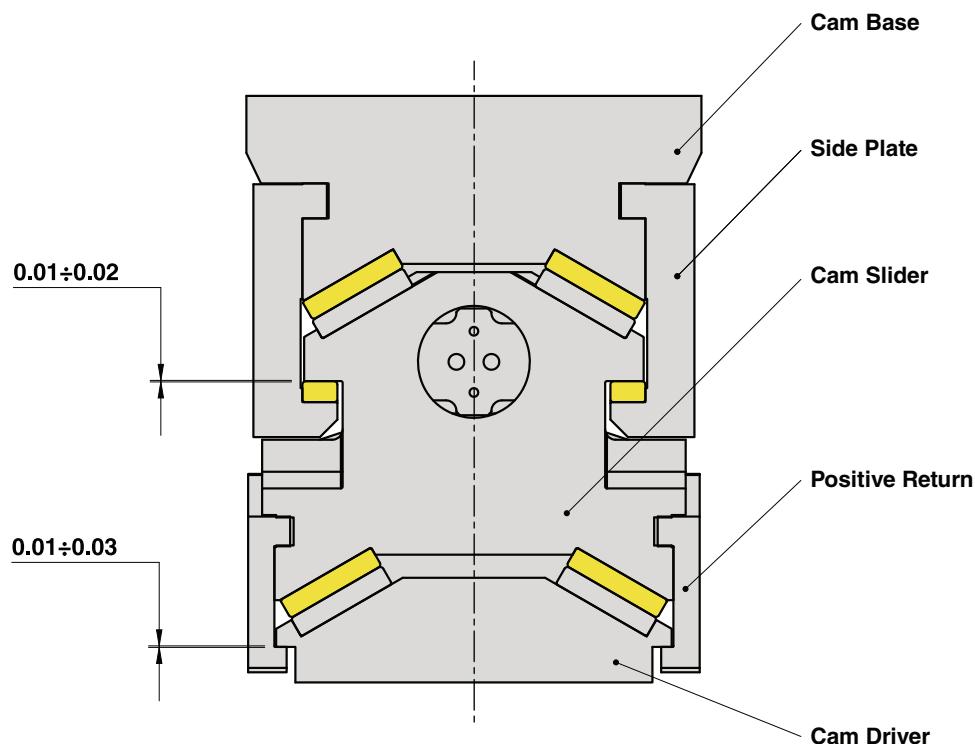
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

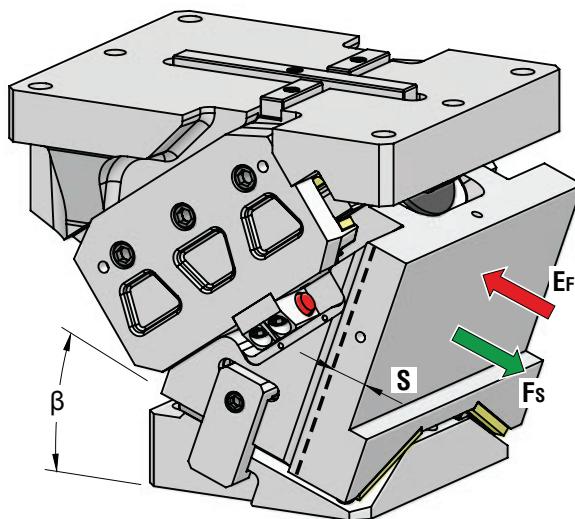


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S		F_F
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



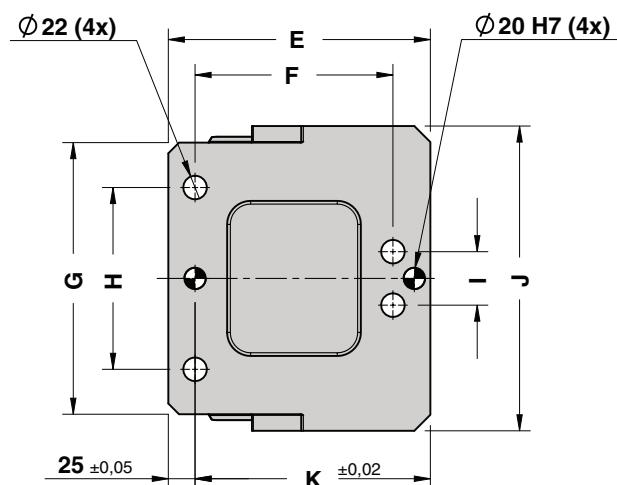
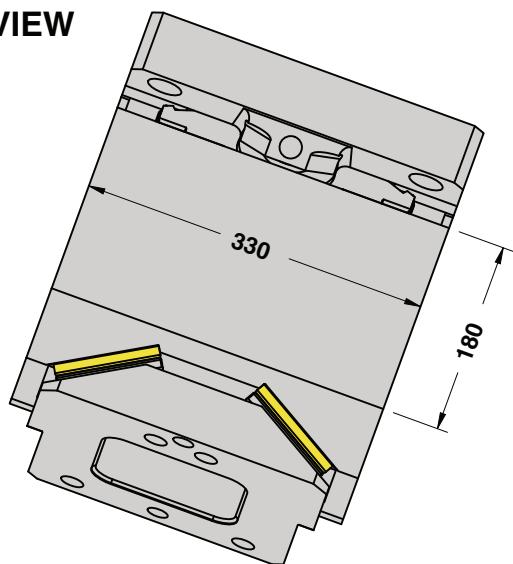
Art.	Work Angle = 5°	
	CHV330	05

OMCR CODE	Work Angle	Overall Dimensions (mm)														
		β	A	B	C	D	E	F	G	H	I	J	K	L	M	N
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

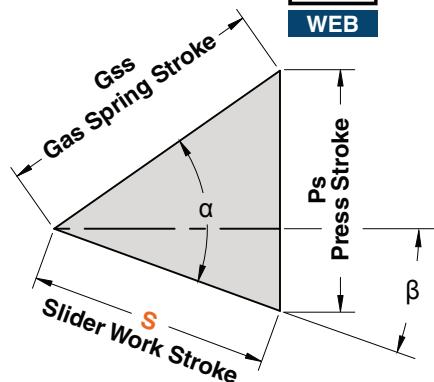
X VIEW



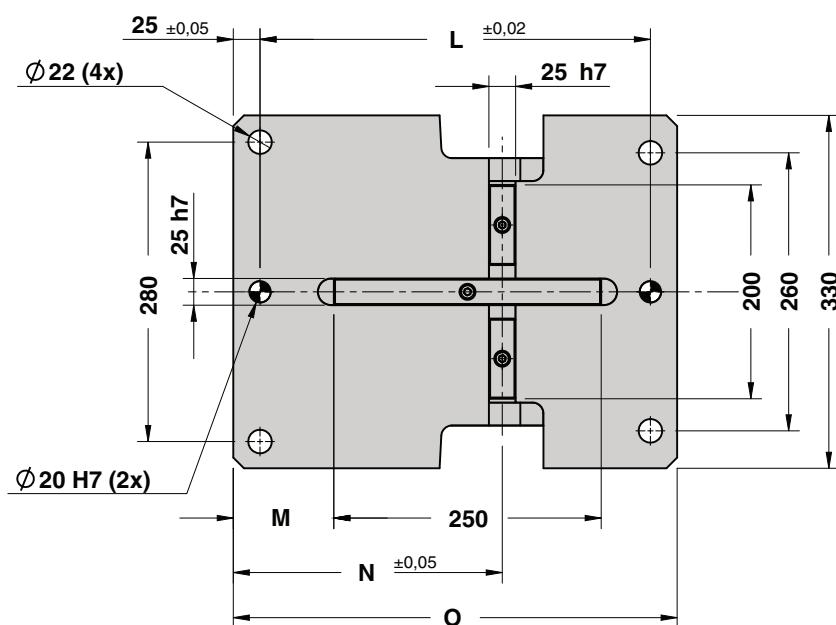
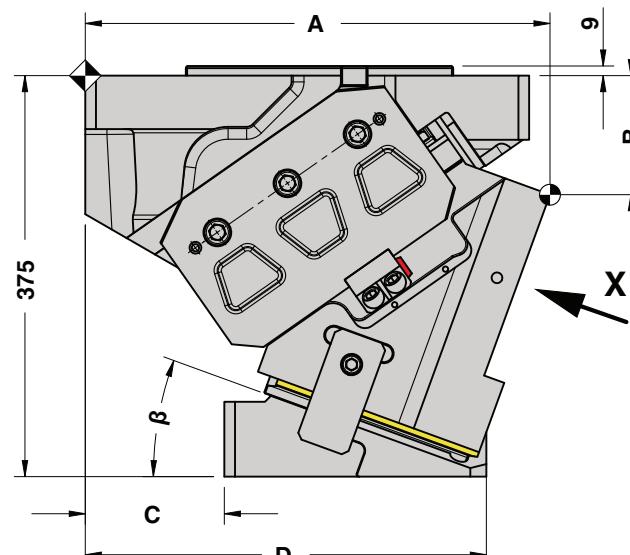
CAM DIAGRAM



WEB

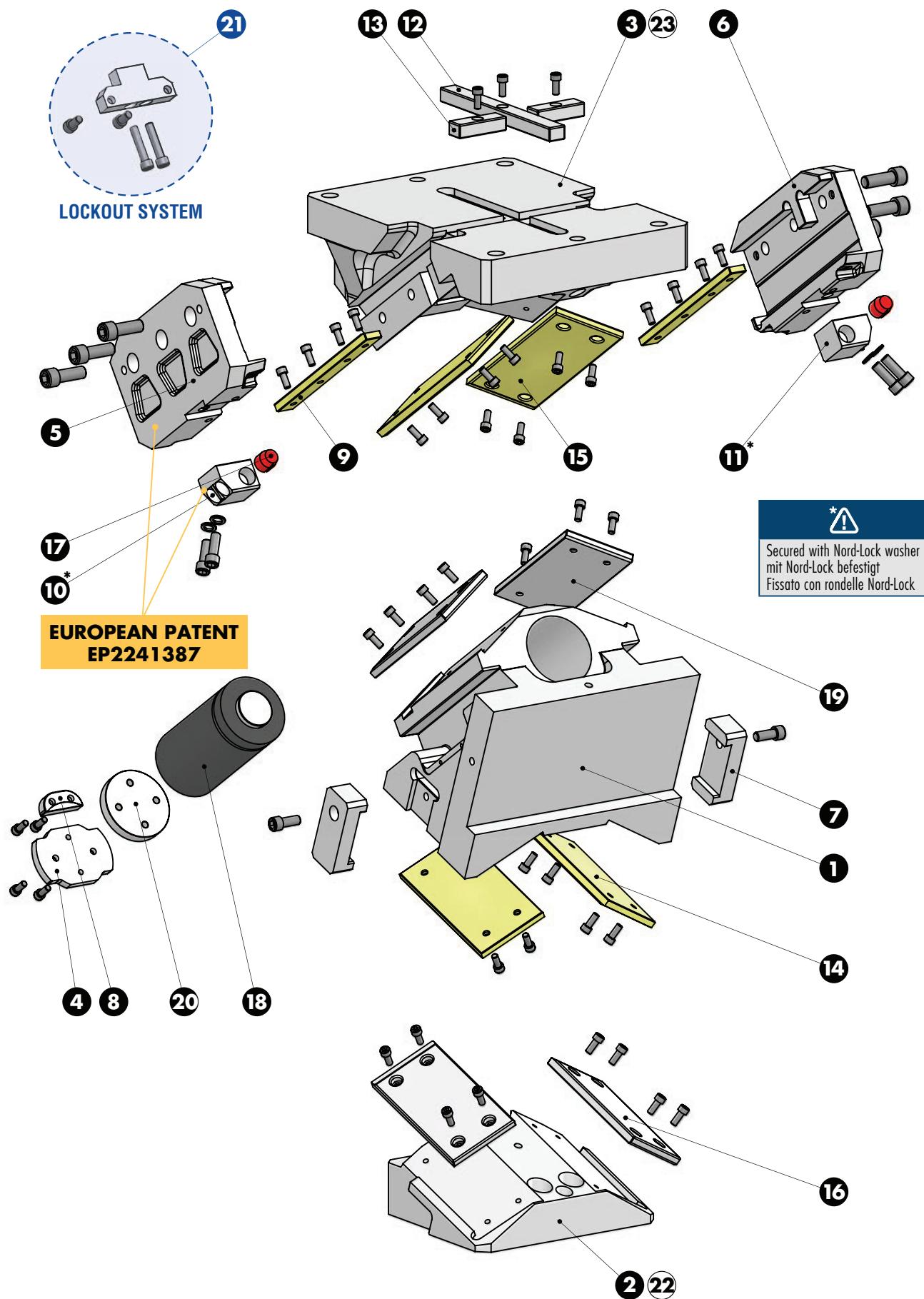


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	37,28	44,43	58
5°	50°	41,17	44,60	58
10°	55°	41,64	48,24	58
15°	55°	46,00	49,19	58
20°	55°	50,56	50,56	58
25°	60°	52,42	55,42	58
30°	60°	58,00	58,00	58
35°	65°	61,32	64,17	58
40°	65°	68,62	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





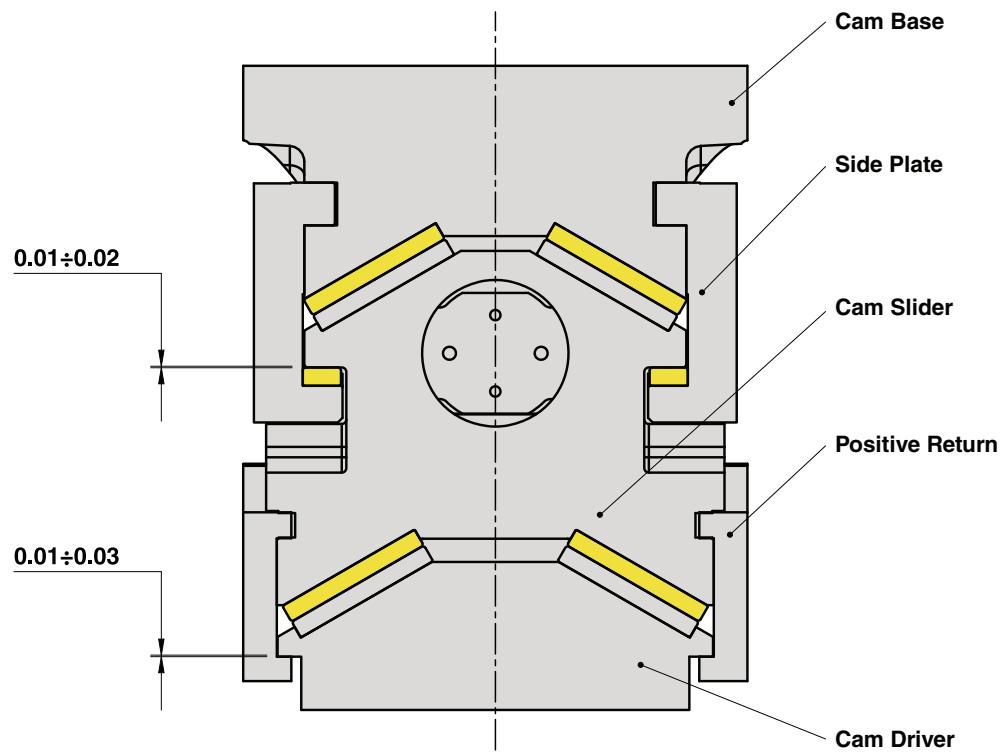
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

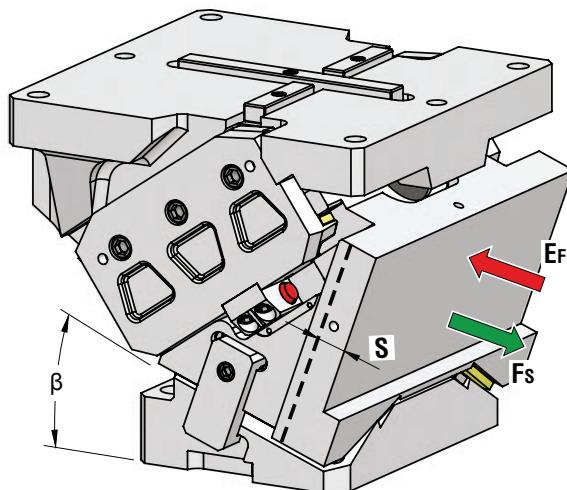


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F_s	F_E
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



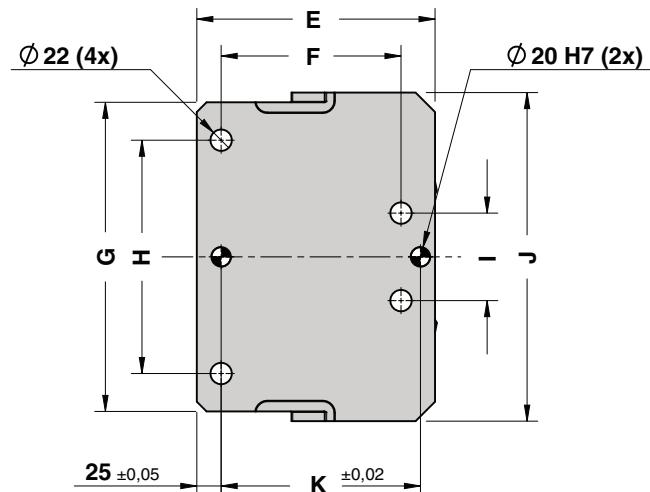
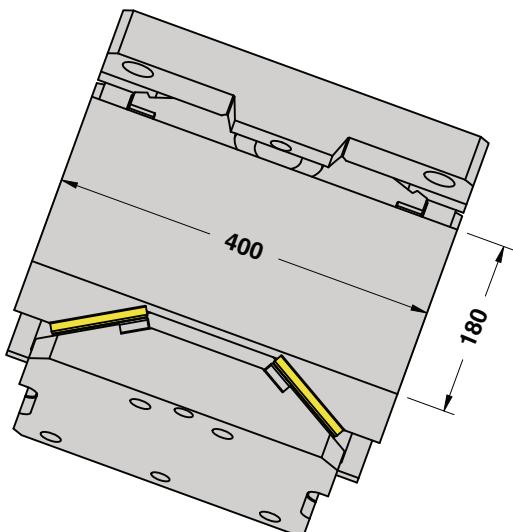
Art.	Work Angle = 5°
CHV400	05

OMCR CODE	Work Angle	Overall Dimensions (mm)														
		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

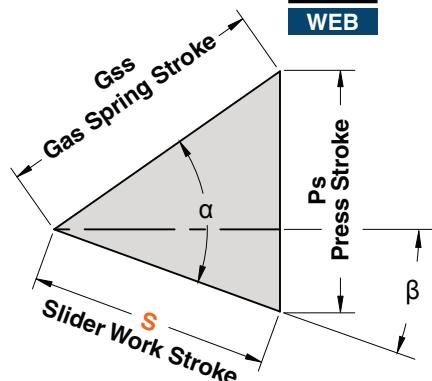
X VIEW



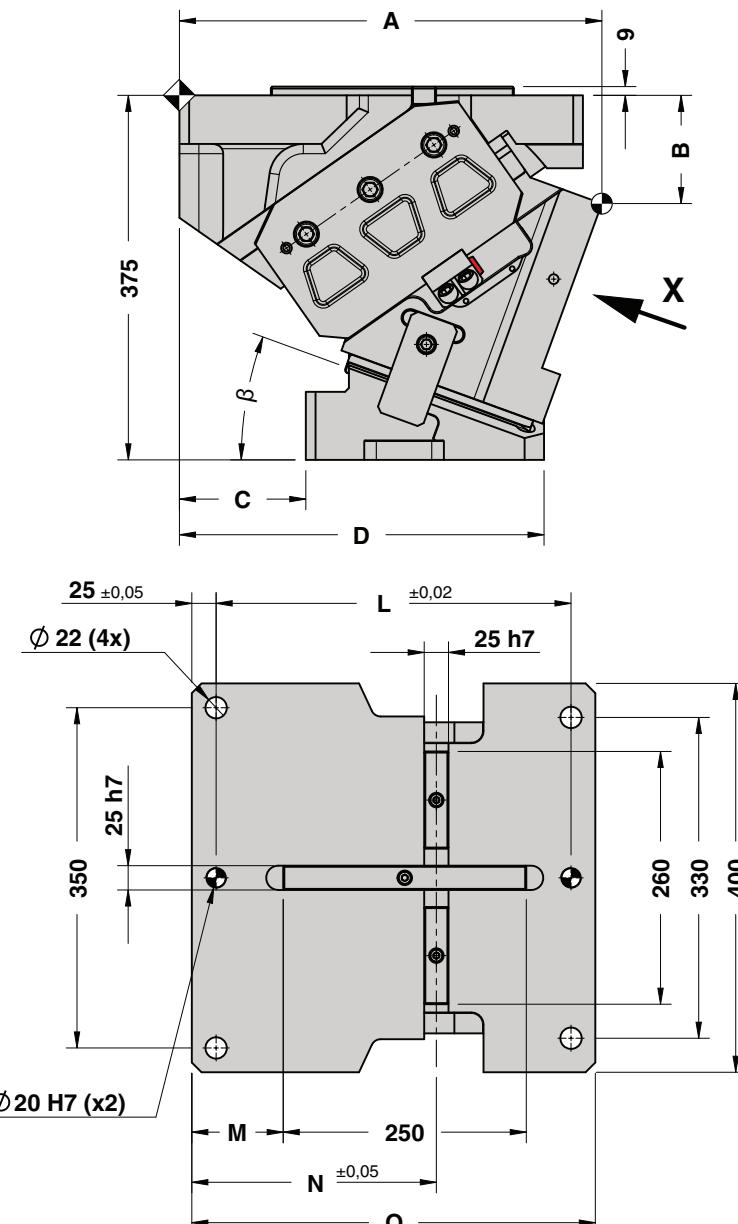
CAM DIAGRAM



WEB

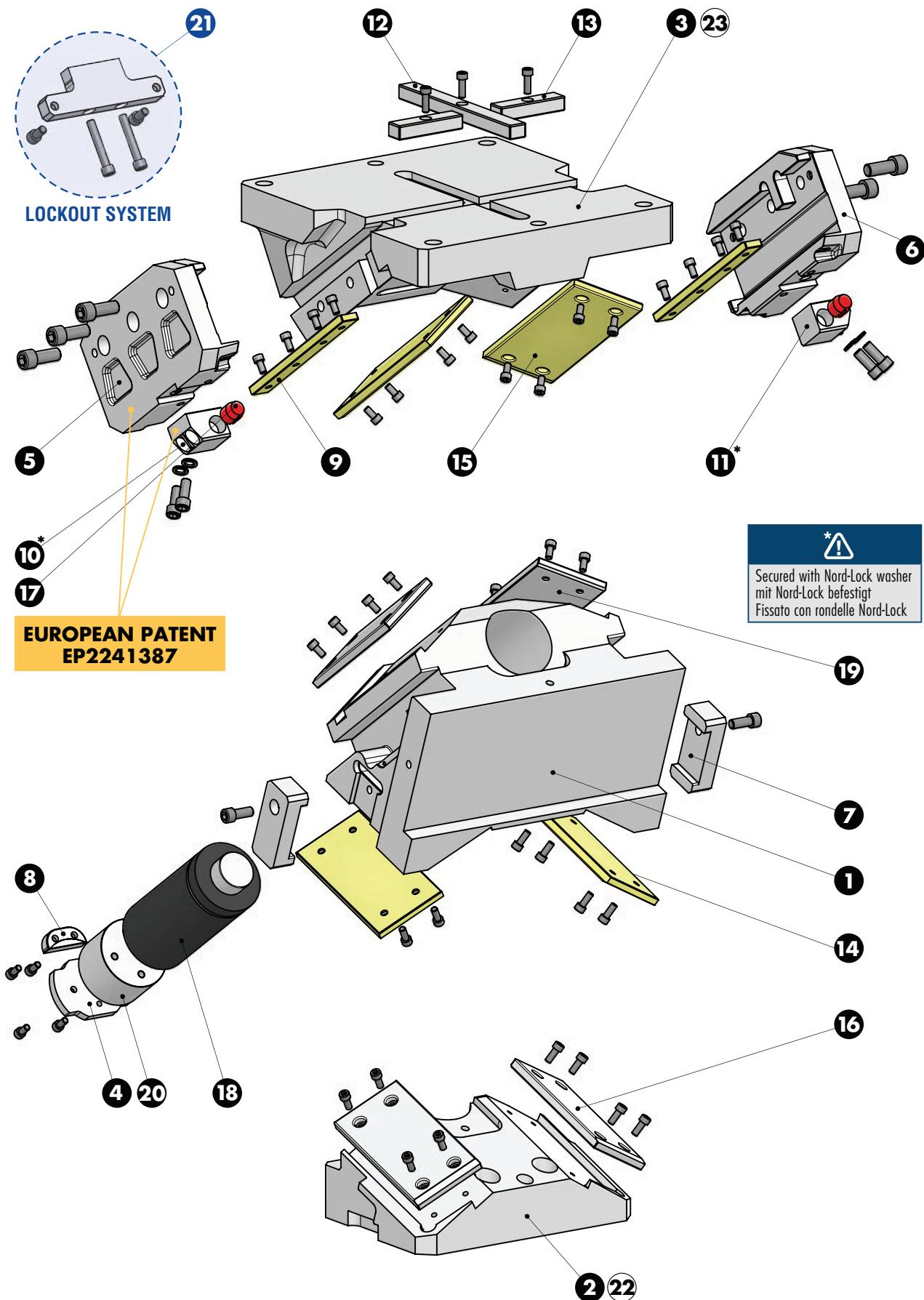


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	37,28	44,43	58
5°	50°	41,17	44,60	58
10°	55°	41,64	48,24	58
15°	55°	46,00	49,19	58
20°	55°	50,56	50,56	58
25°	60°	52,42	55,42	58
30°	60°	58,00	58,00	58
35°	65°	61,32	64,17	58
40°	65°	68,62	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





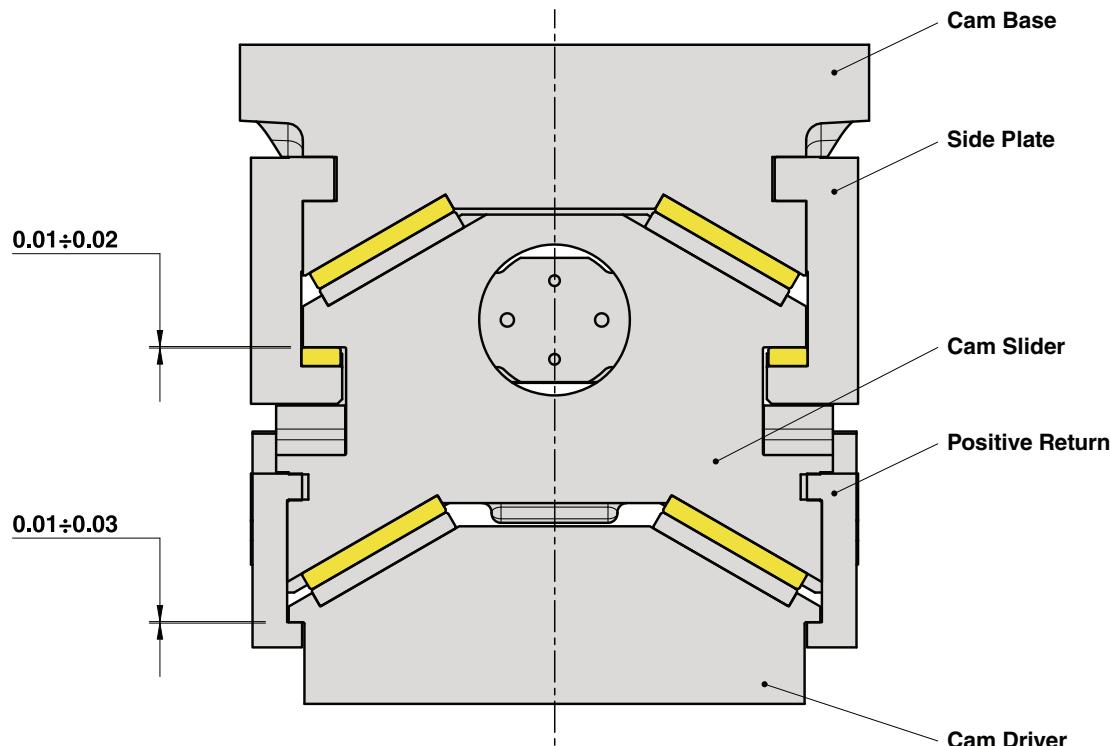
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



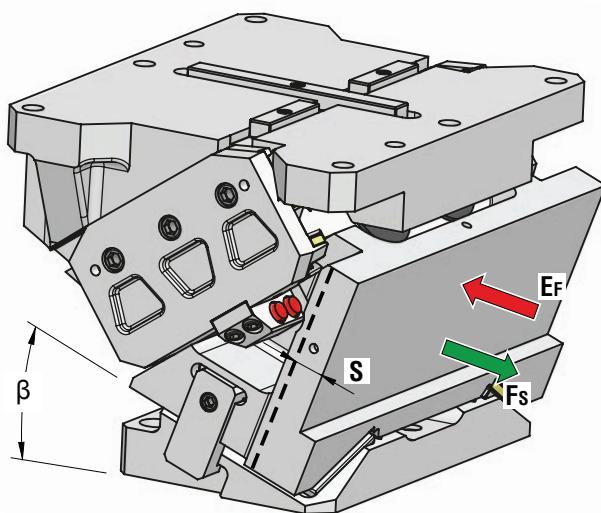
Cam Units CHV

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S		F_E
				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

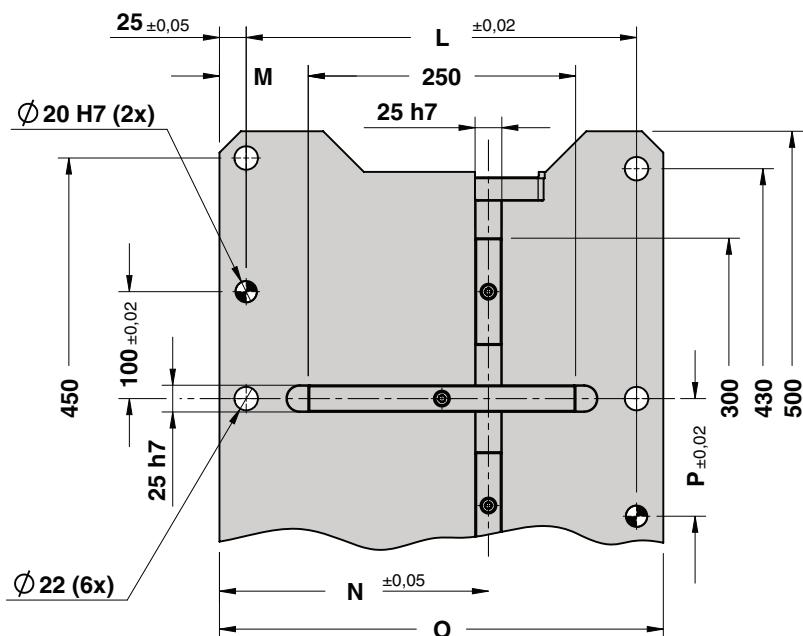
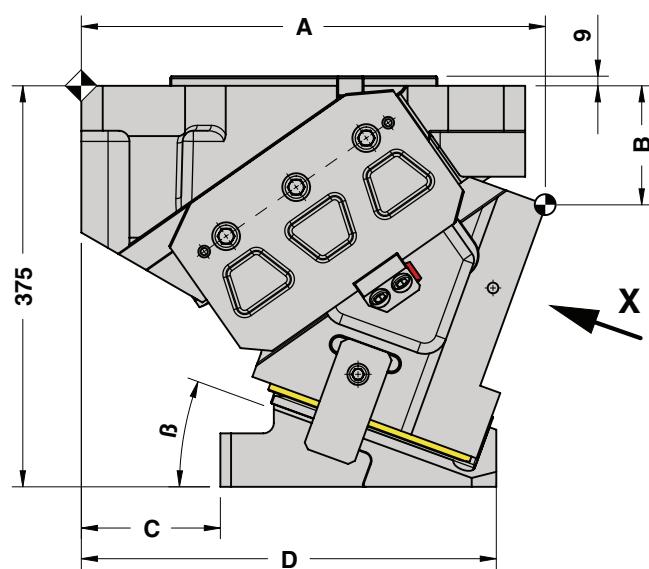
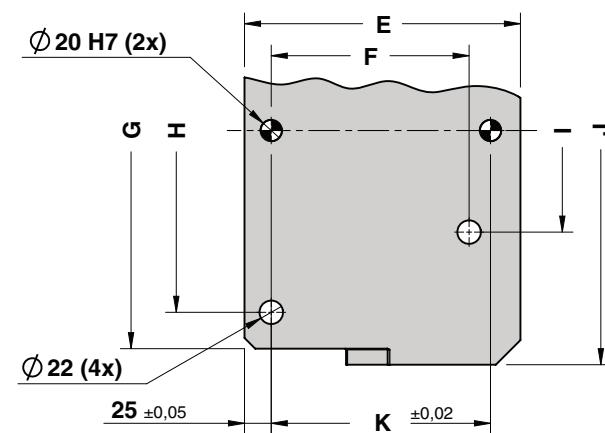
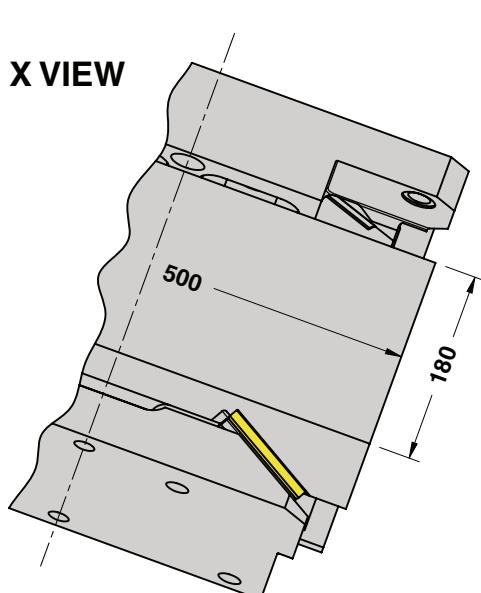


Art.	Work Angle = 5°	
	CHV500	05

OMCR CODE	Work Angle	Overall Dimensions (mm)																P
		β	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
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

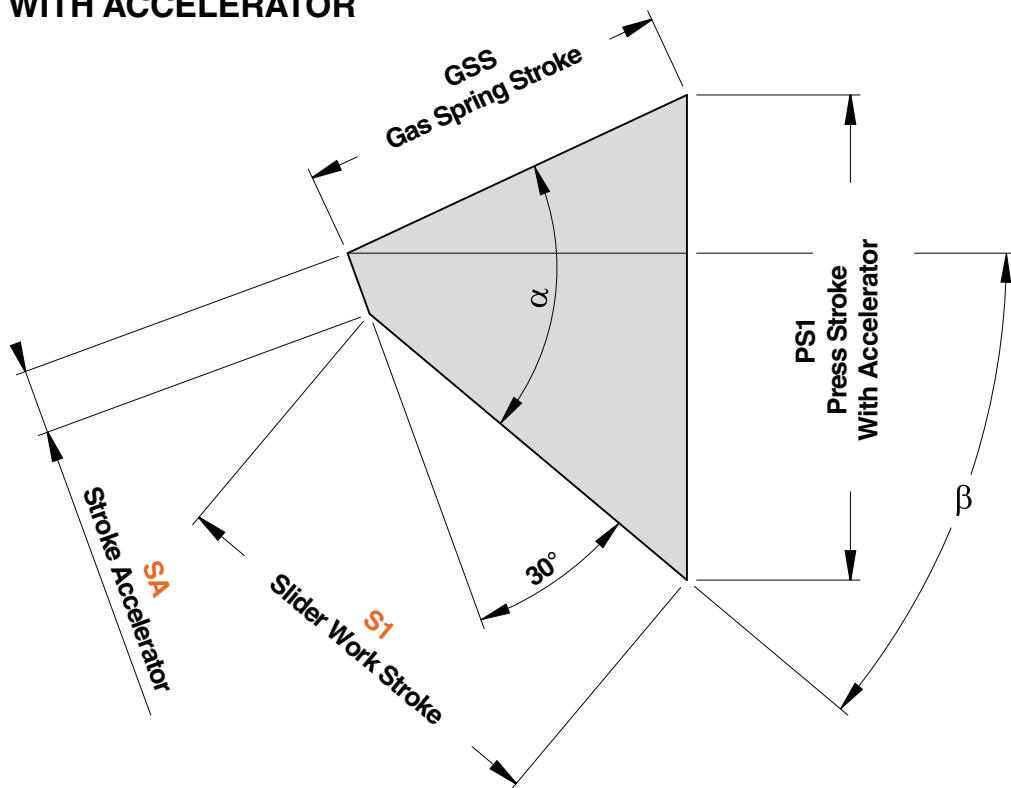




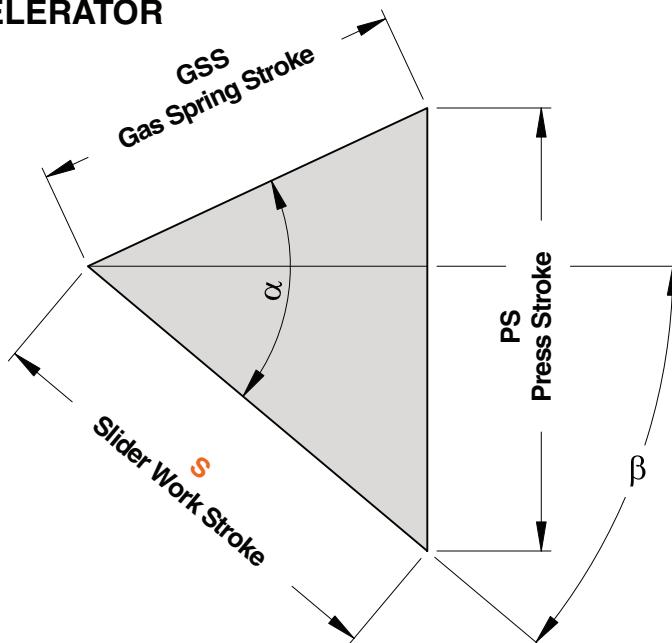
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

CAM DIAGRAM
WITH ACCELERATOR

WEB

CAM DIAGRAM
WITHOUT ACCELERATOR

WEB

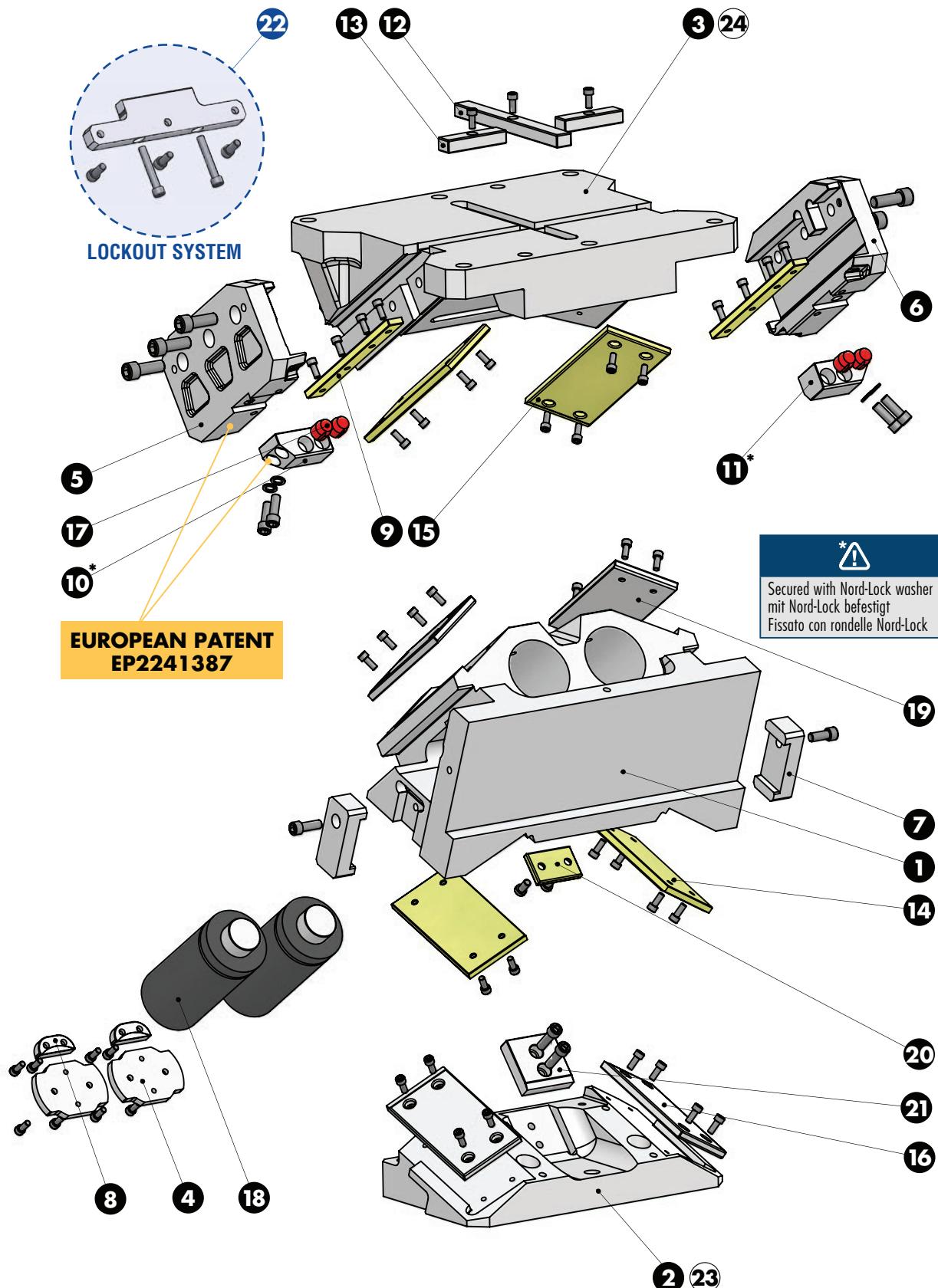


**AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA**

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



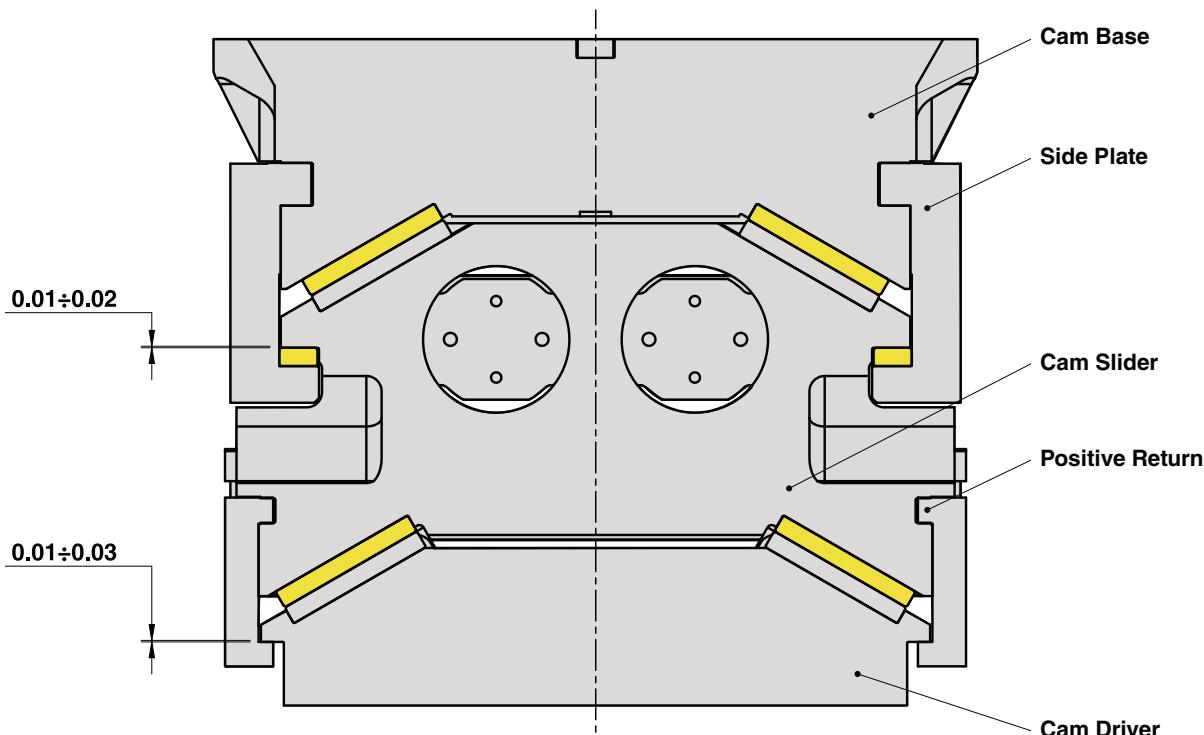
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

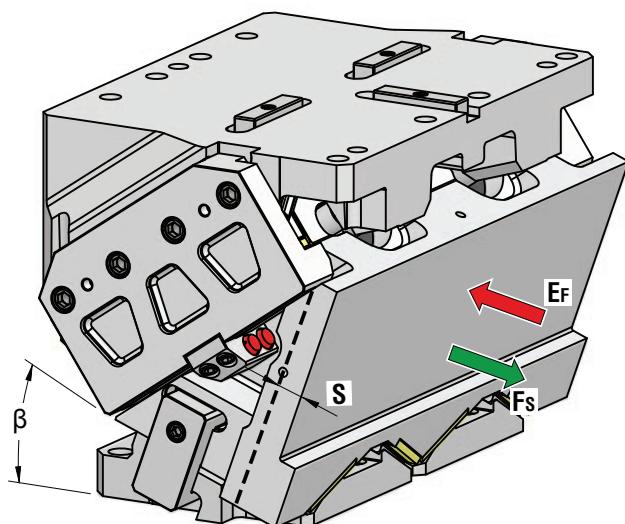


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _f
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



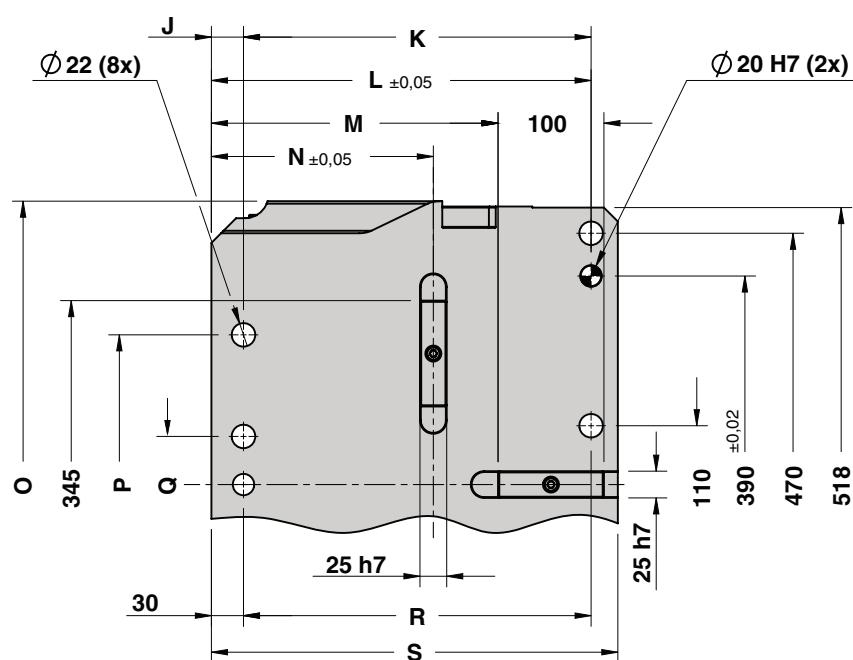
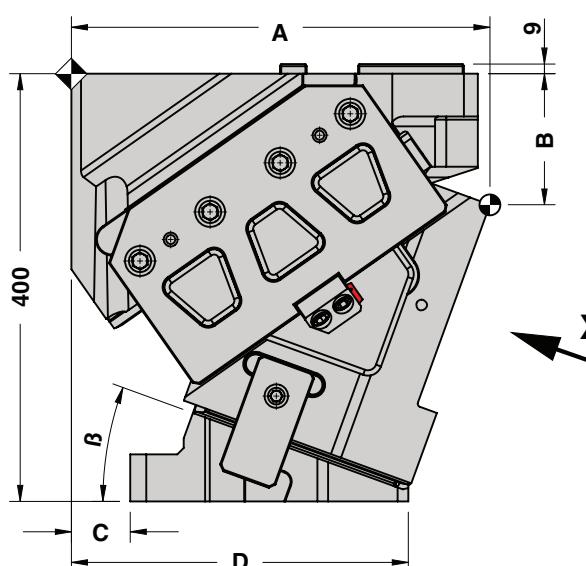
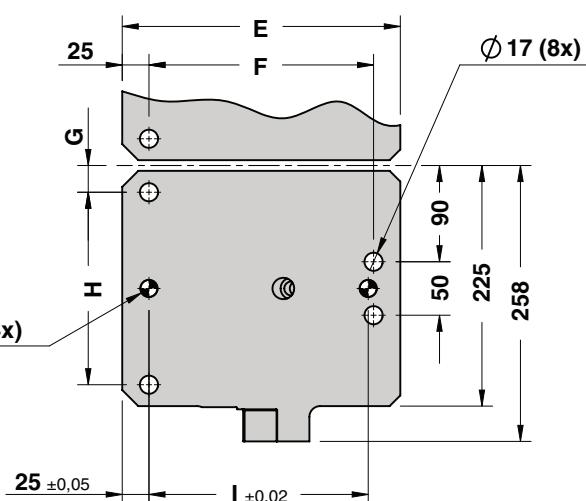
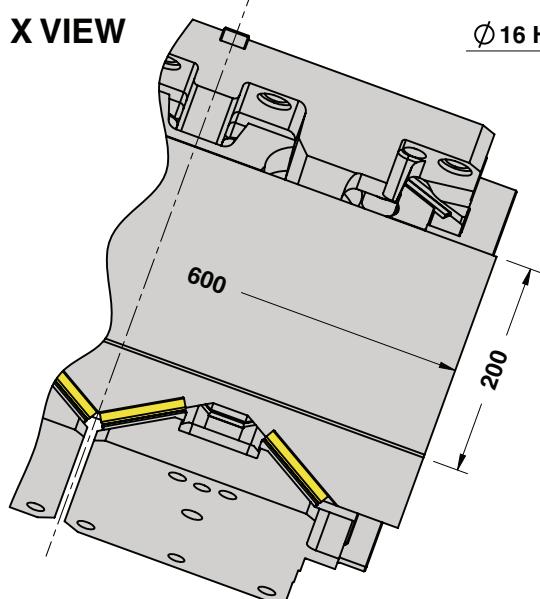
Art.	Work Angle = 5°	
	CHV600	05

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
CHV600.00	0°	368,00	75,00	120	375	255	205	25	180	200	30	330	360	272,5	167,5	600	560	250	330	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	330	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	330	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	330	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	325	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	325	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	345	400
CHV600.35	35°	418,26	153,01	5	285	280	230	25	180	225	30	355	385	302,5	202,5	530	280	90	355	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	380	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	380	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	400	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	400	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	400	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	440	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	440	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	440	495



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

X VIEW



Cam Units CHV

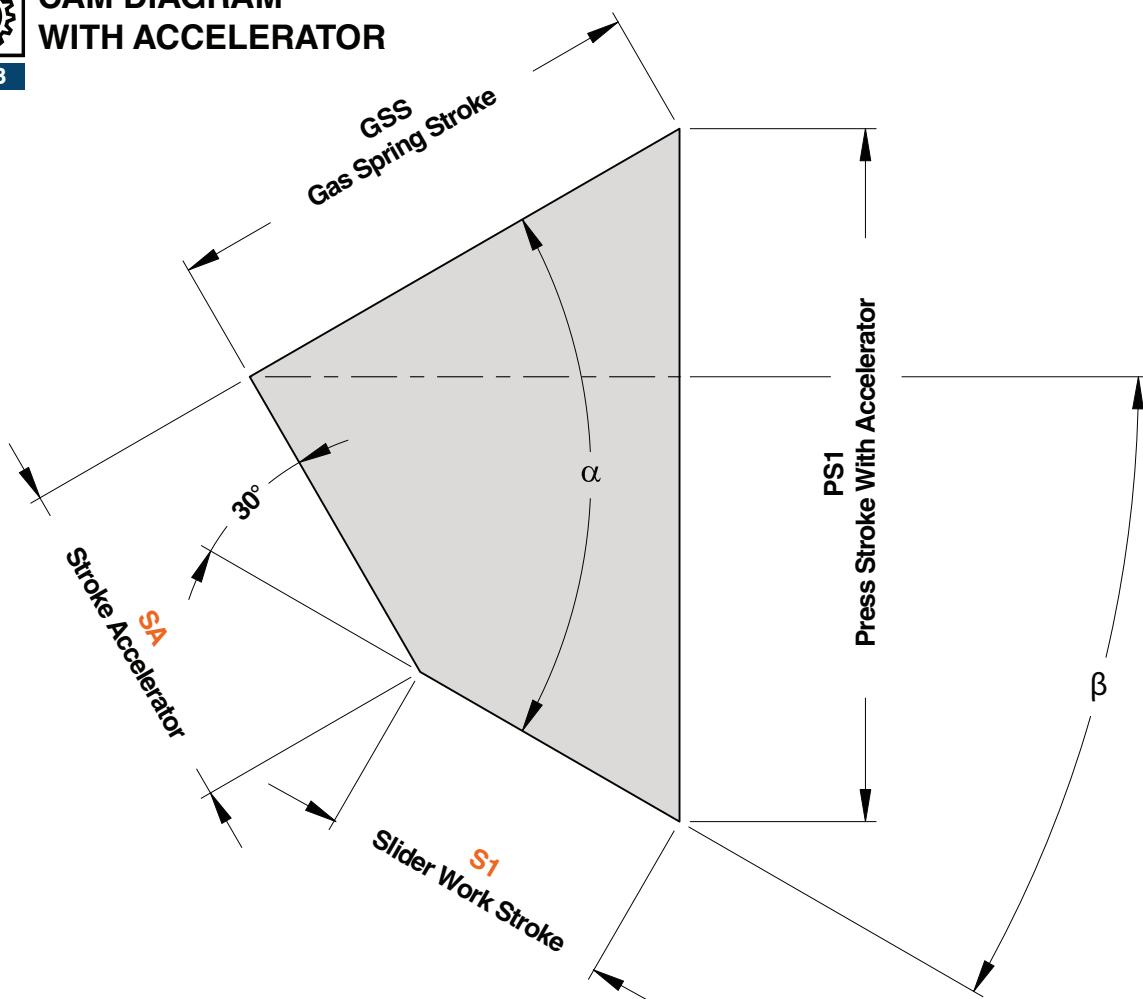


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



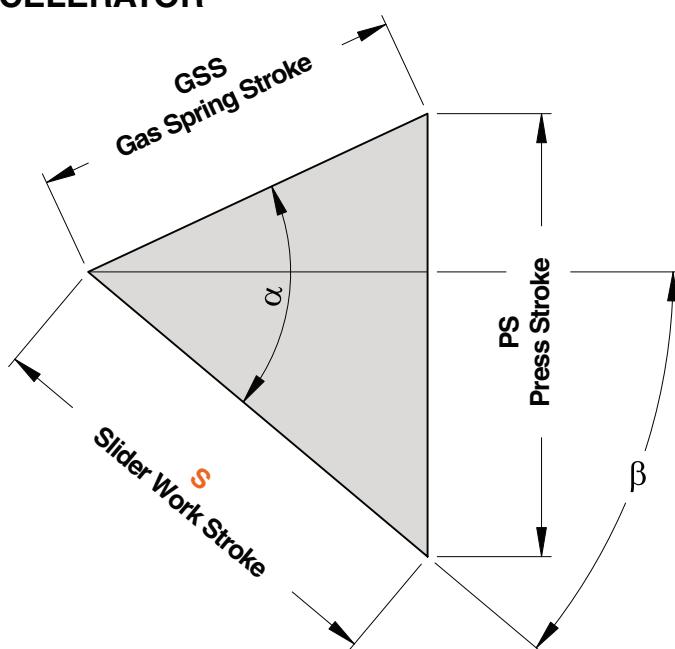
**CAM DIAGRAM
WITH ACCELERATOR**

WEB



**CAM DIAGRAM
WITHOUT ACCELERATOR**

WEB

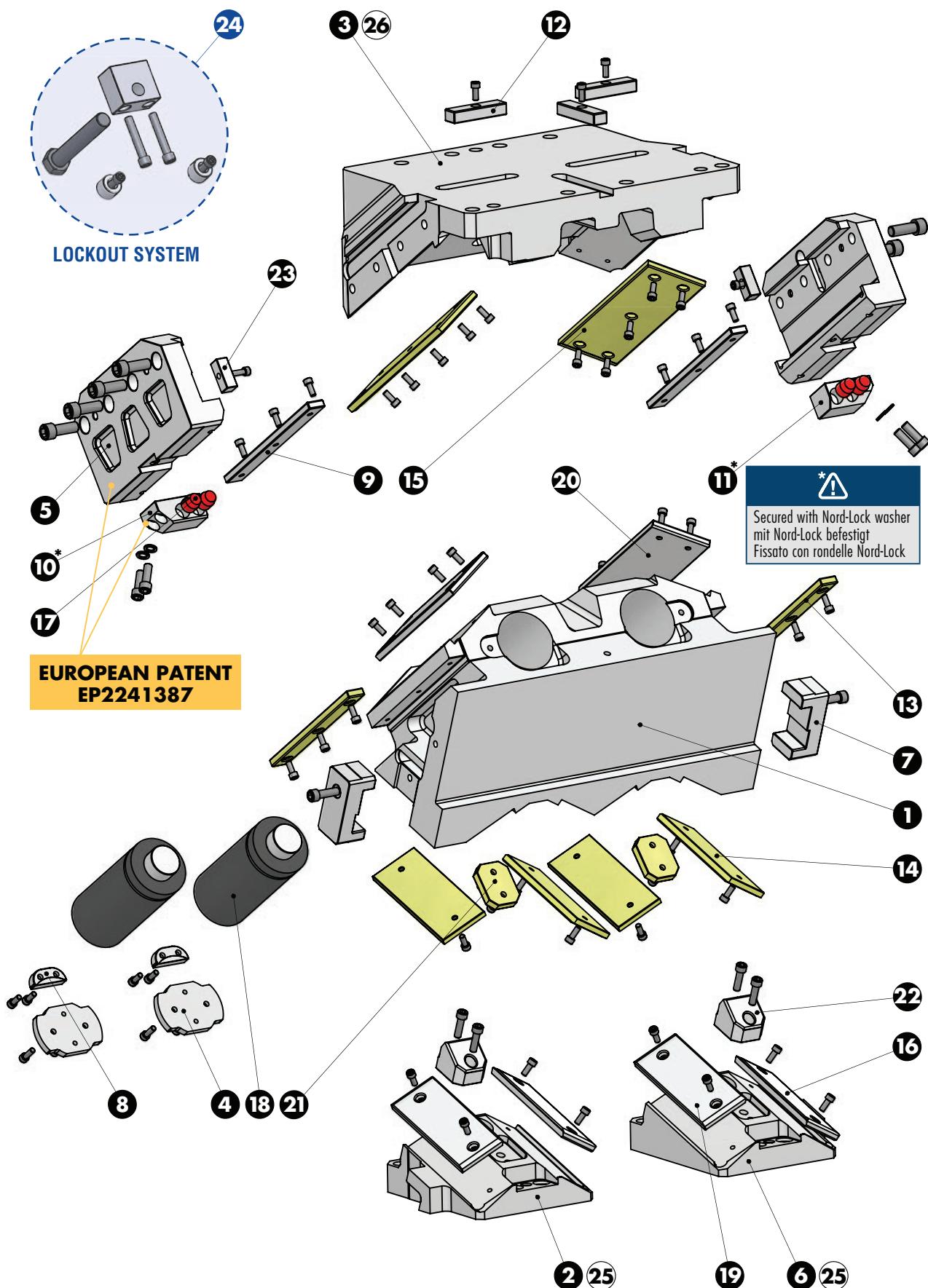


**AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA**

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



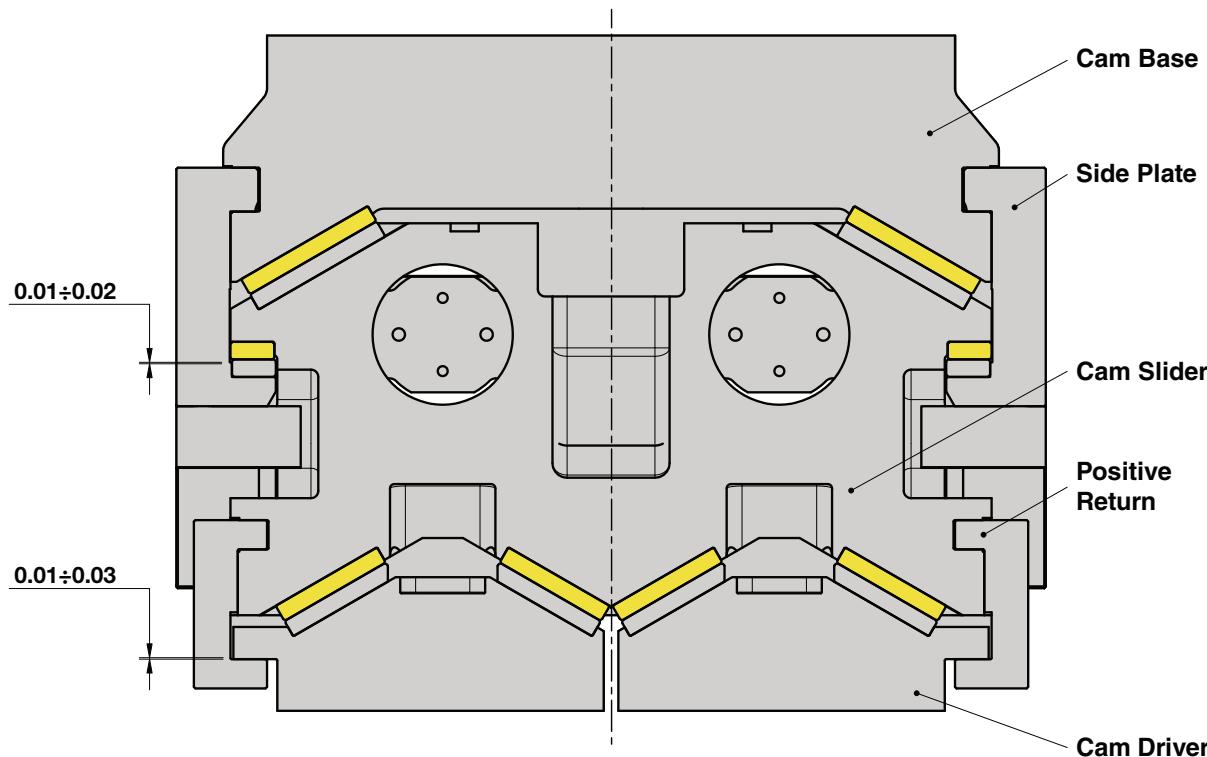
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





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



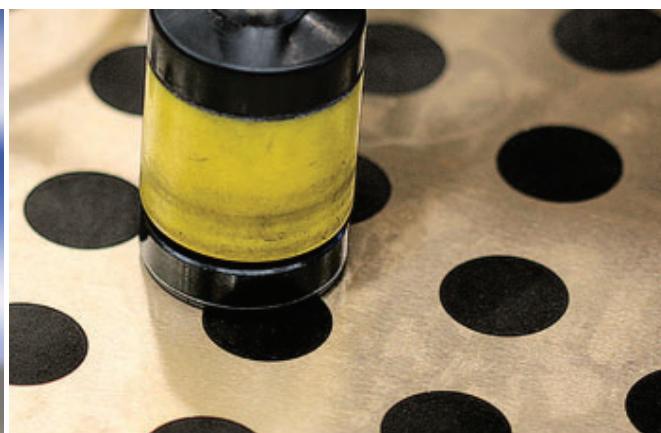
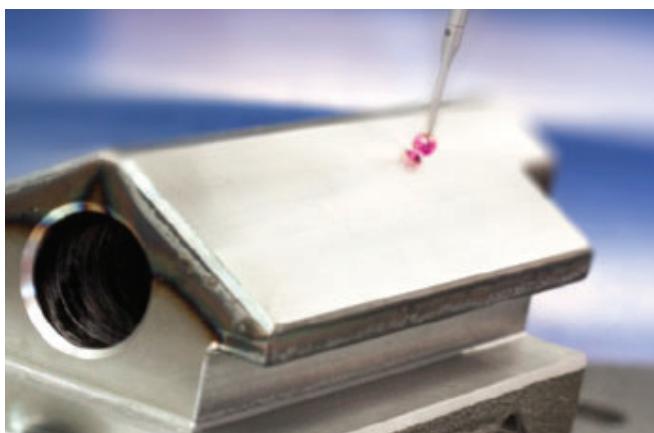
Cam Units CHW Schieber CHW Unità a Camme CHW



OMCR®
STANDARD DIE COMPONENTS



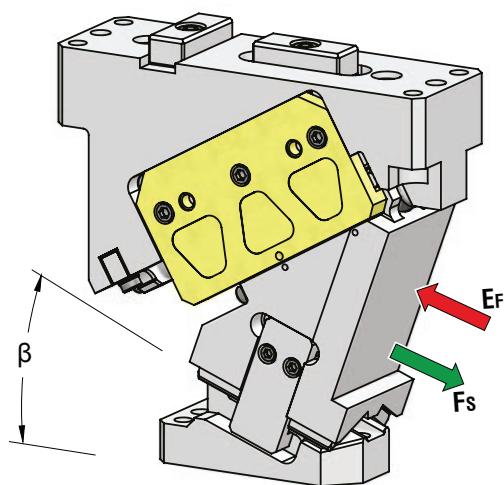
OMCR CODE	Work Angle	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10^6 cycles (kN)	Extraction Force (kN)	Page number
	β				Fs	Ef	
CHW065	0°÷75° (5° steps)	65	190÷205	65x95	210÷230	5,6÷6,8	720
CHW085	0°÷75° (5° steps)	85	190÷205	65x95	210÷230	5,6÷6,8	724
CHW090	0°÷75° (5° steps)	90	205÷240	90x100	250÷320	11÷13,2	728
CHW110	0°÷75° (5° steps)	110	205÷240	90x100	250÷320	11÷13,2	732



Precision and accurate dimensions through very strict quality guidelines



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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



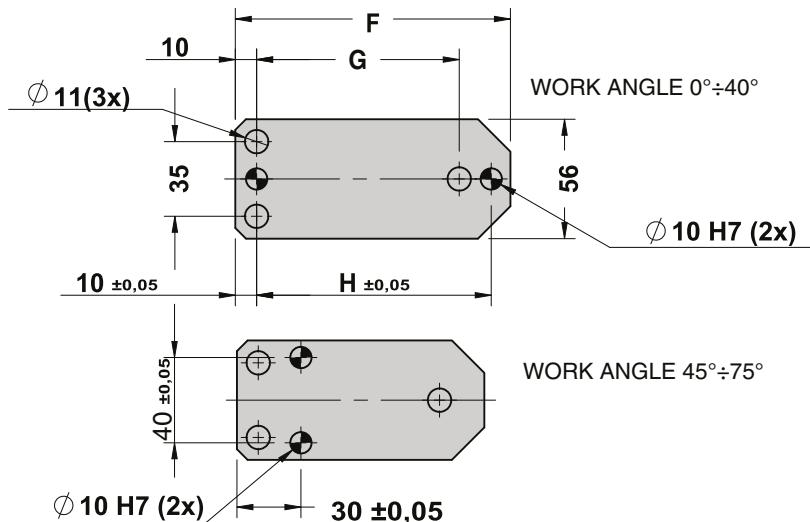
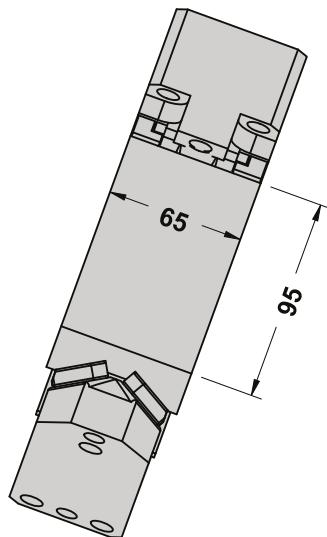
Art.	Work Angle = 5°
CHW065.	05

OMCR CODE	Work Angle	Overall Dimensions (mm)									
		β	A	B	C	D	E	F	G	H	I
CHW065.00	0°	170,88	65	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

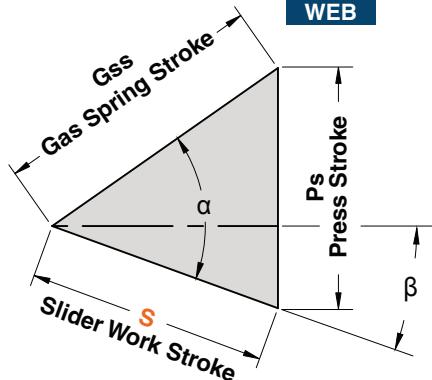


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

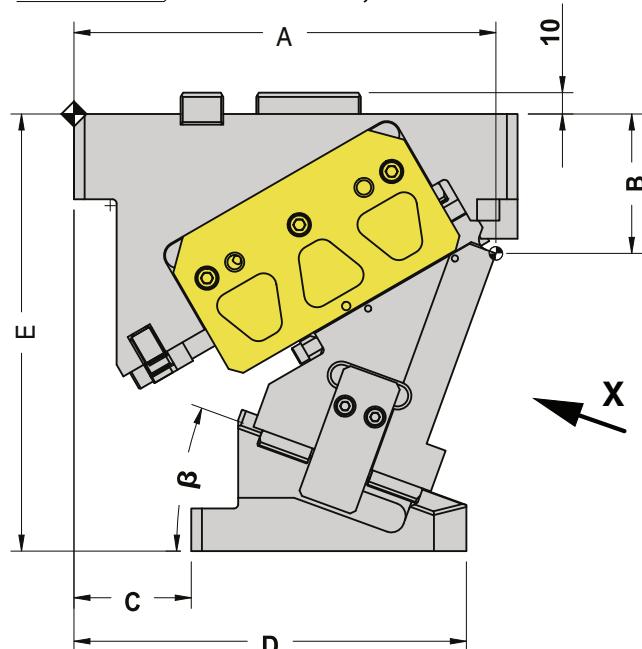
X VIEW



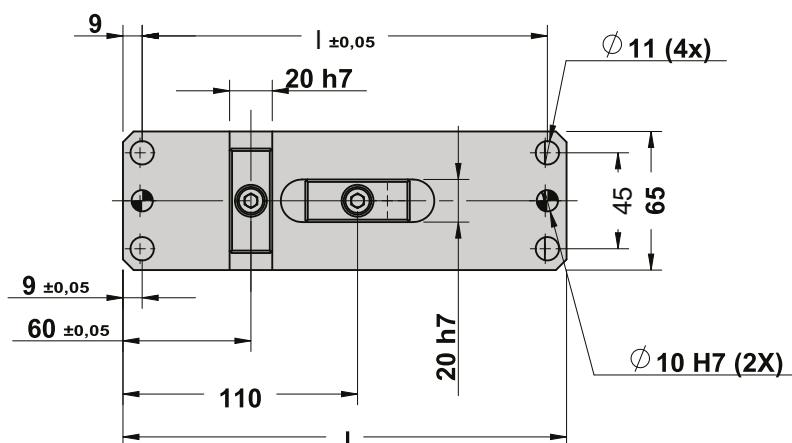
CAM DIAGRAM



Cam Units CHW

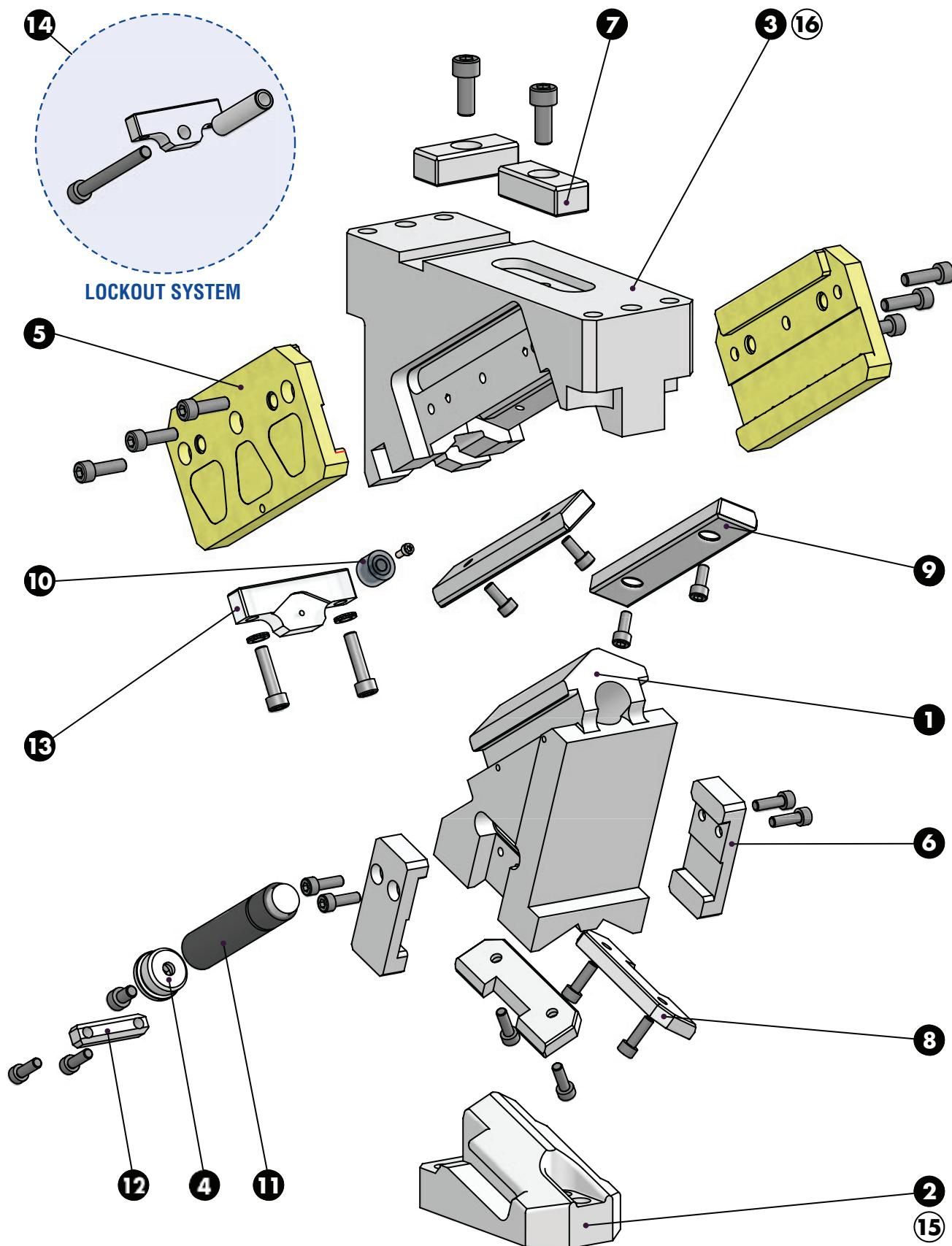


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	28,9	34,5	45
5°	50°	31,9	34,5	45
10°	50°	35	35	45
15°	50°	38,16	35,69	45
20°	50°	41,47	36,68	45
25°	50°	45	38	45
30°	50°	48,83	39,8	45
35°	50°	53,06	42,08	45
40°	50°	57,85	45	45
45°	50°	63,4	48,75	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





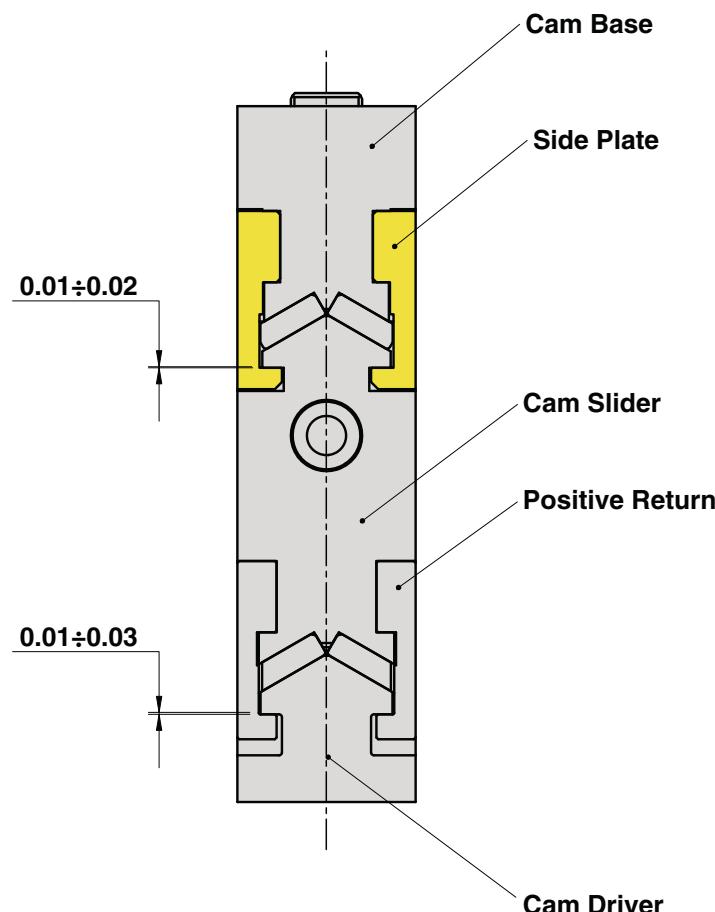
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



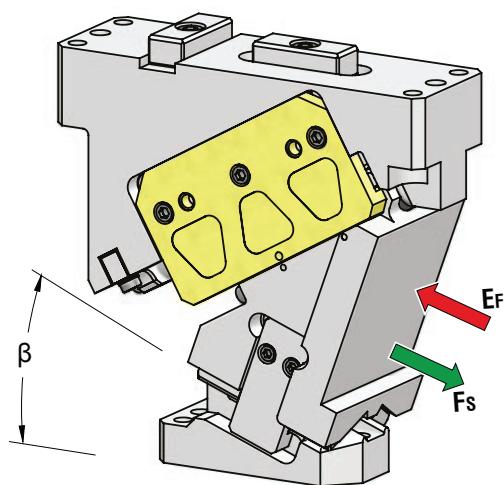
Cam Units CHW

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



OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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



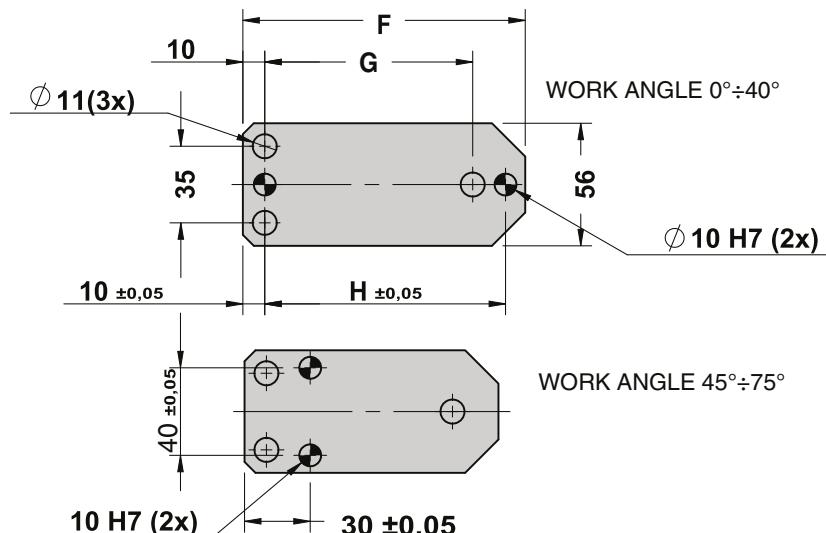
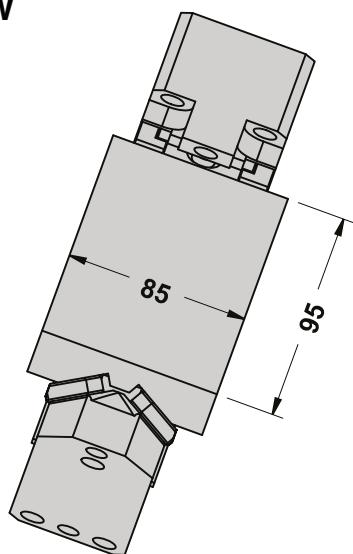
Art.	Work Angle = 5°
CHW085.	05

OMCR CODE	Work Angle	Overall Dimensions (mm)									
		β	A	B	C	D	E	F	G	H	I
CHW085.00	0°	170,88	65	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

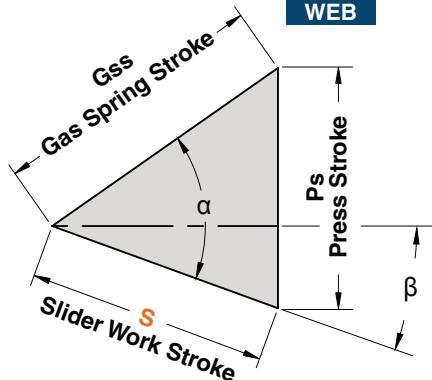
X VIEW



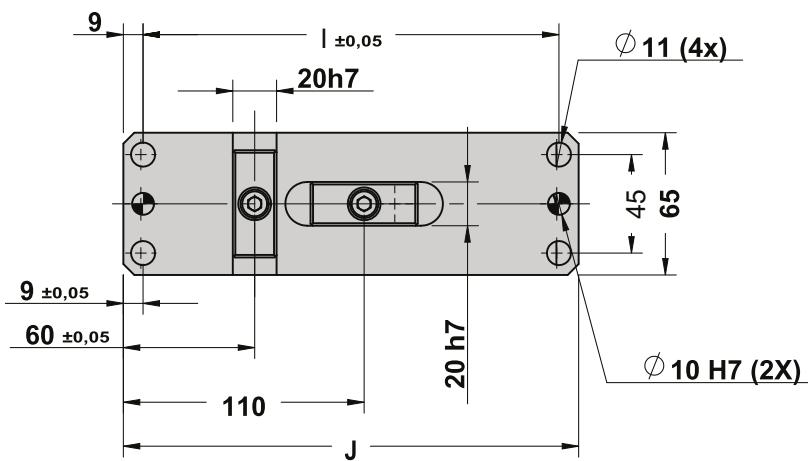
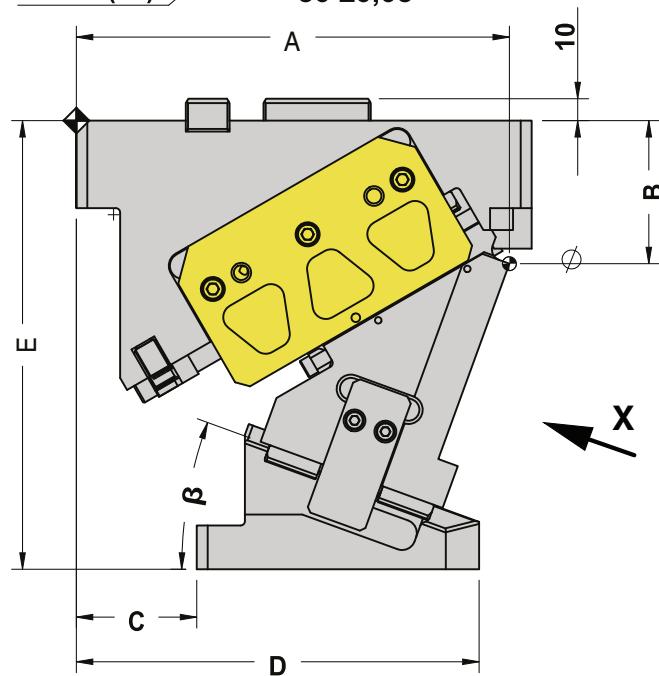
CAM DIAGRAM



WEB

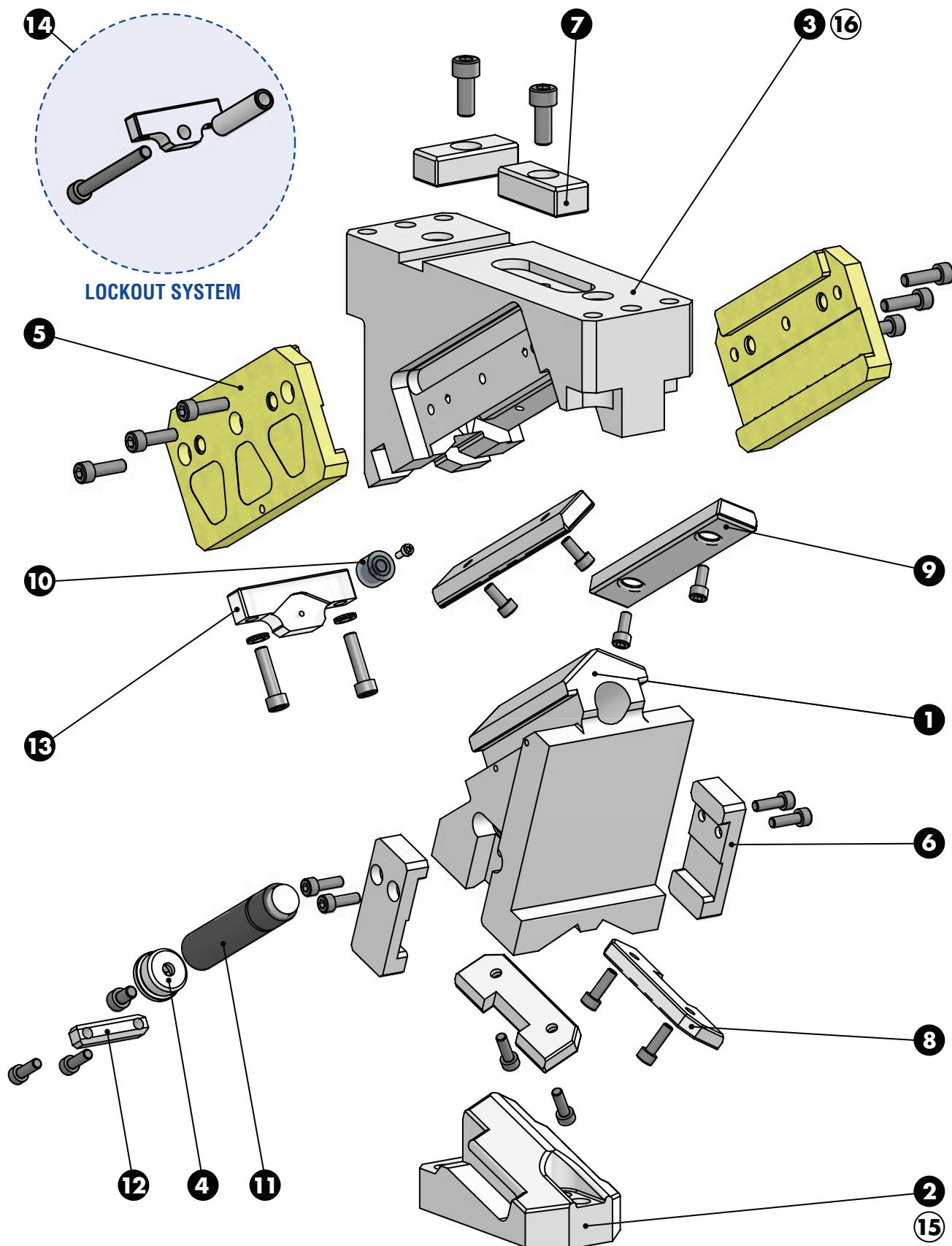


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	28,9	34,5	45
5°	50°	31,9	34,5	45
10°	50°	35	35	45
15°	50°	38,16	35,69	45
20°	50°	41,47	36,68	45
25°	50°	45	38	45
30°	50°	48,83	39,8	45
35°	50°	53,06	42,08	45
40°	50°	57,85	45	45
45°	50°	63,4	48,75	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





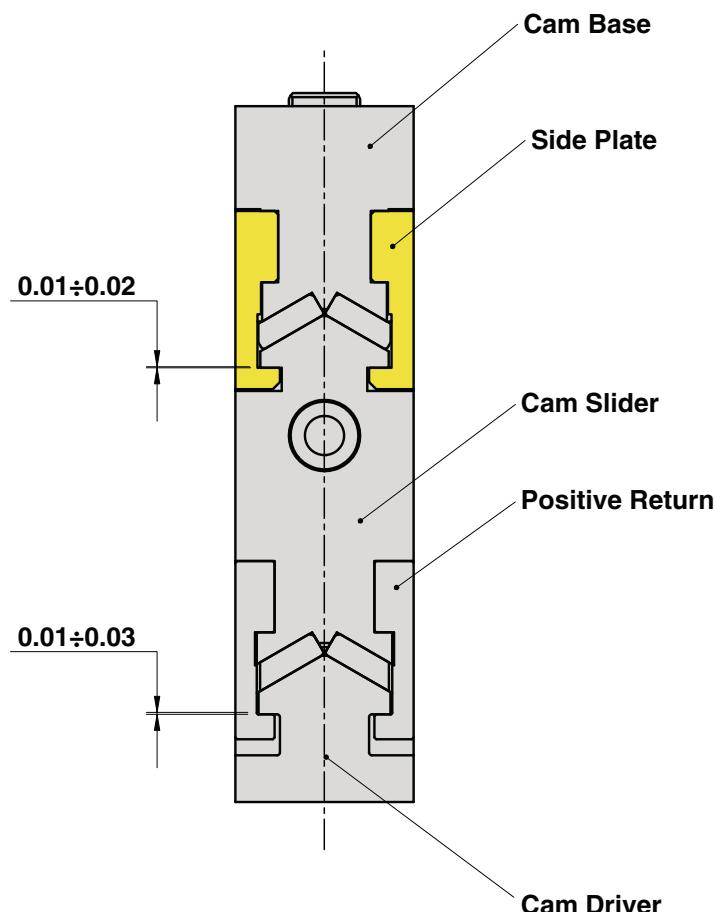
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



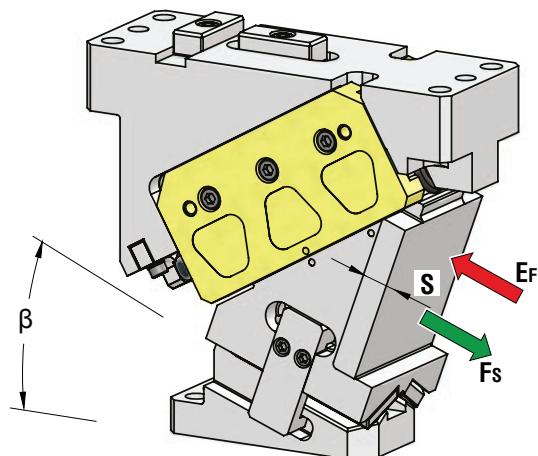
Cam Units CHW

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


 [WEB](#)
 [WEB](#)
 [WEB](#)
[P.624](#)

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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



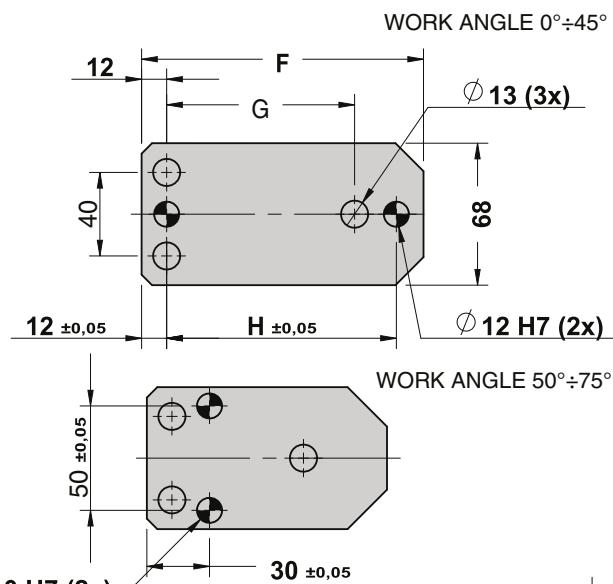
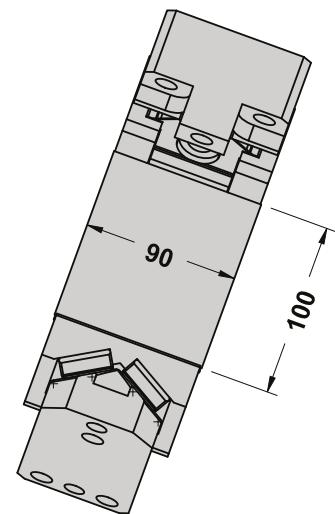
Art.	Work Angle = 5°
CHW090.	05

OMCR CODE	Work Angle	Overall Dimensions (mm)									
		β	A	B	C	D	E	F	G	H	I
CHW090.00	0°	196,69	70,15	72	208	230	136	105	80	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

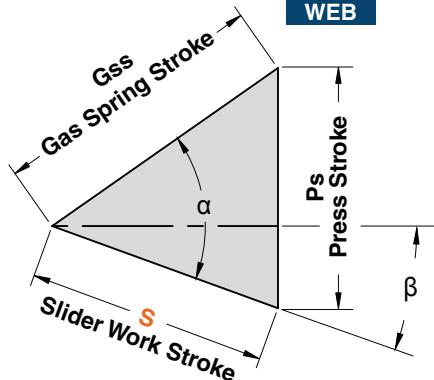
X VIEW



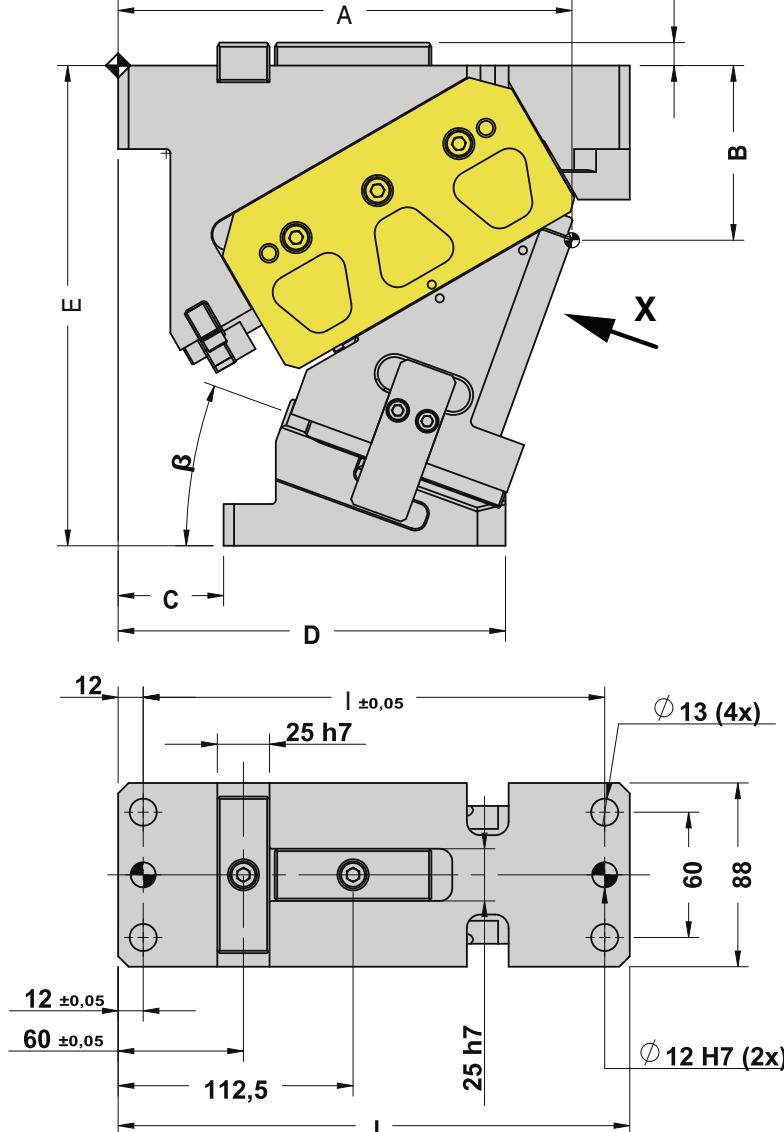
CAM DIAGRAM



WEB

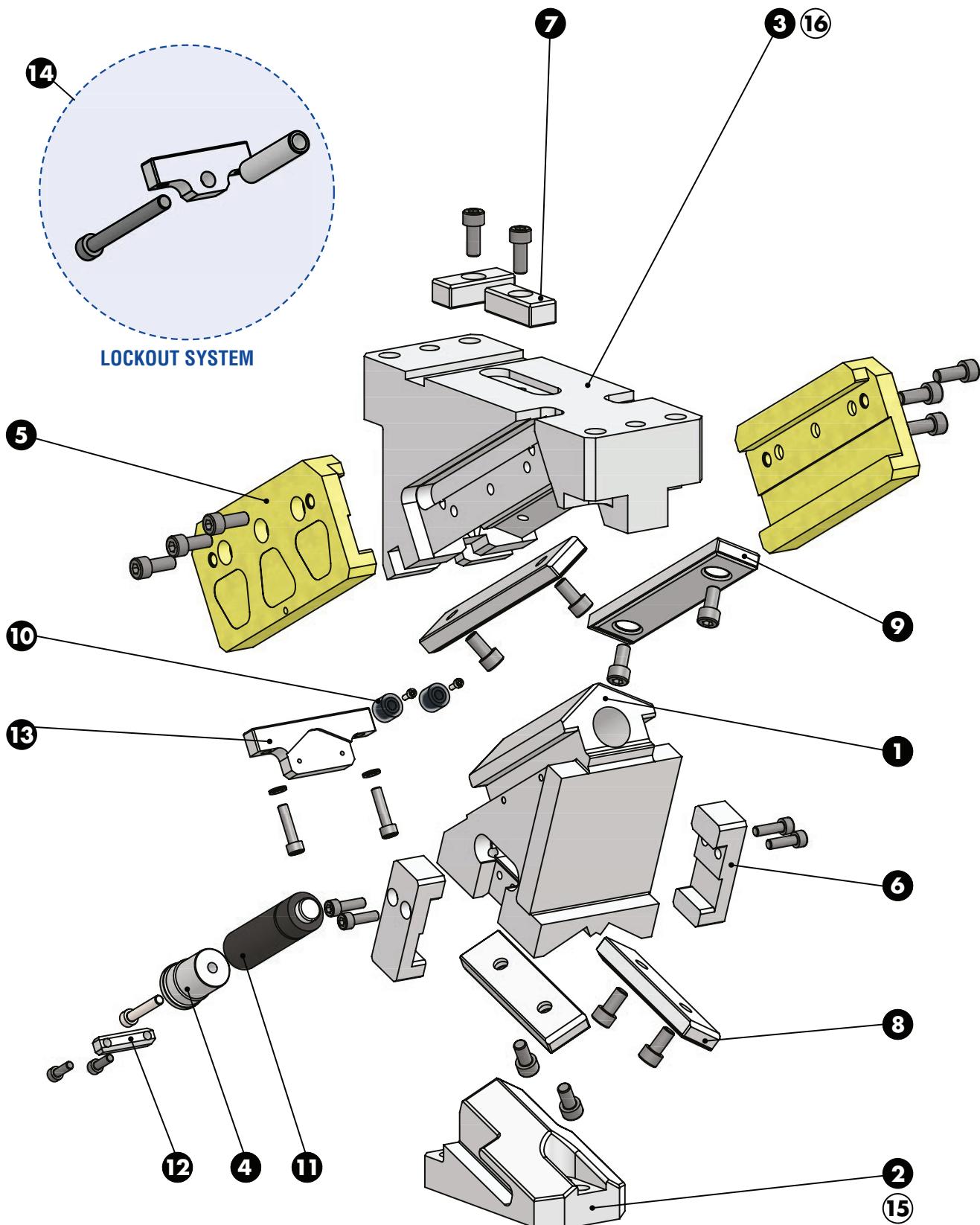


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	28	33,33	43,5
5°	50°	30,8	33,45	43,5
10°	50°	33,84	33,84	43,5
15°	50°	36,89	34,5	43,5
20°	50°	40	35,46	43,5
25°	50°	43,5	36,77	43,5
30°	50°	47,2	38,48	43,5
35°	50°	51,29	40,68	43,5
40°	50°	55,92	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





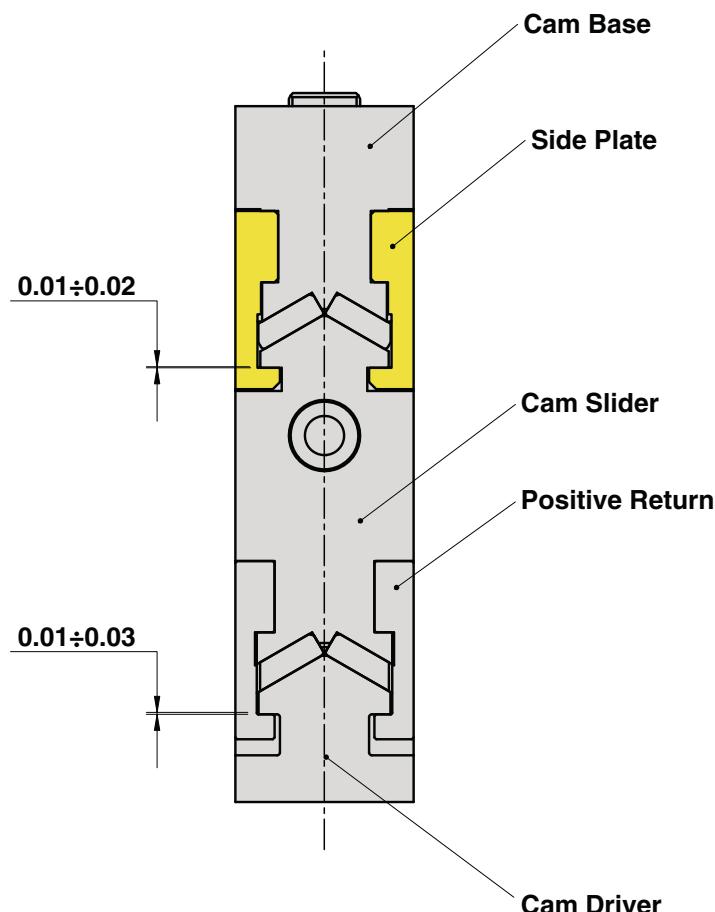
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



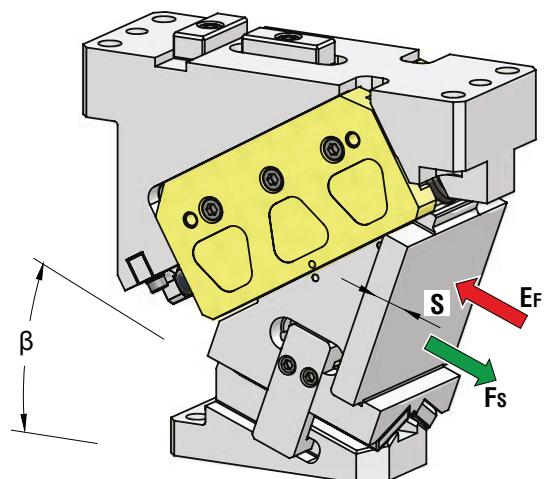
Cam Units CHW

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

**3D
STEP
WEB****3D
CATIA
WEB****CATIA
WEB****P.624**

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	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



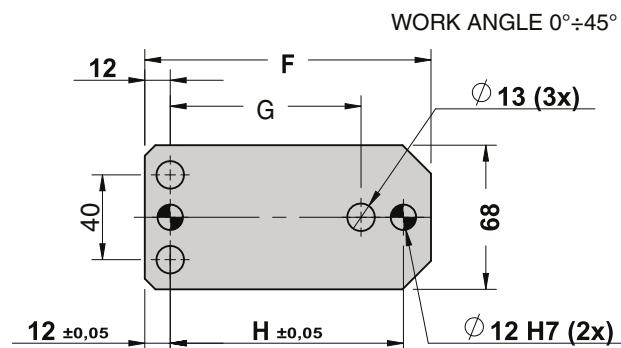
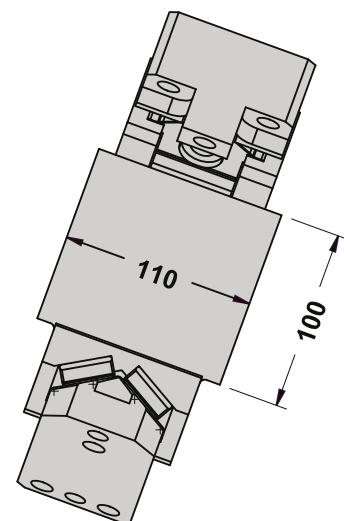
Art.	Work Angle = 5°
CHW110.	05

OMCR CODE	Work Angle	Overall Dimensions (mm)									
		β	A	B	C	D	E	F	G	H	I
CHW110.00	0°	196,69	70,15	72	208	230	136	105	80	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

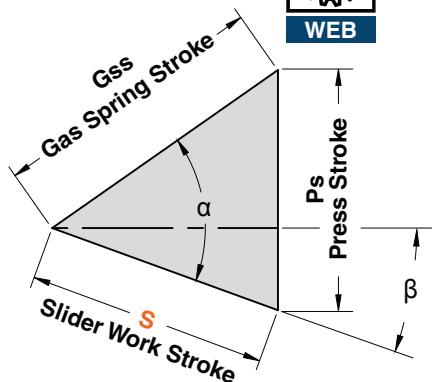
X VIEW



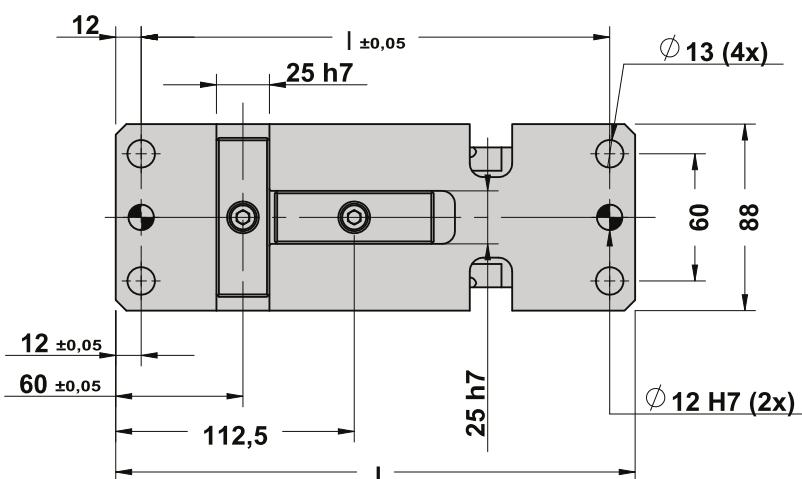
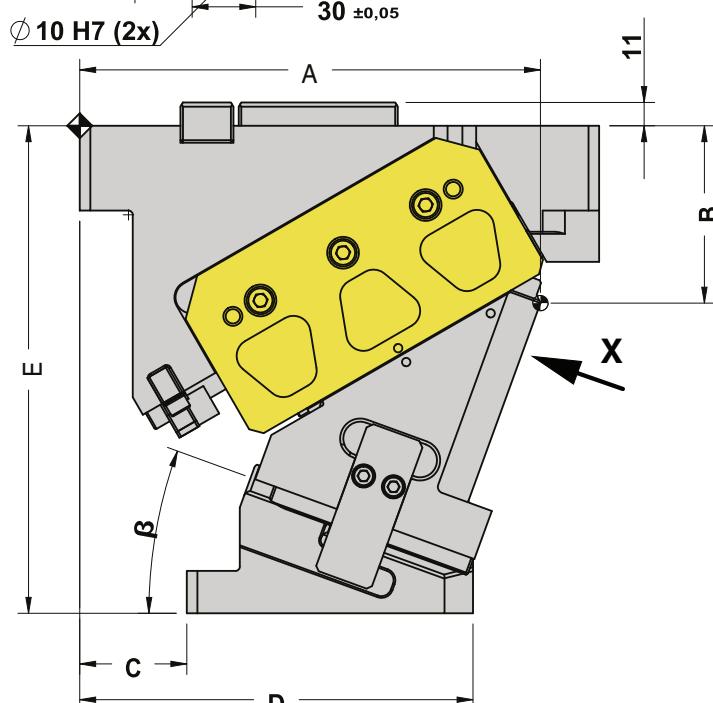
CAM DIAGRAM



WEB

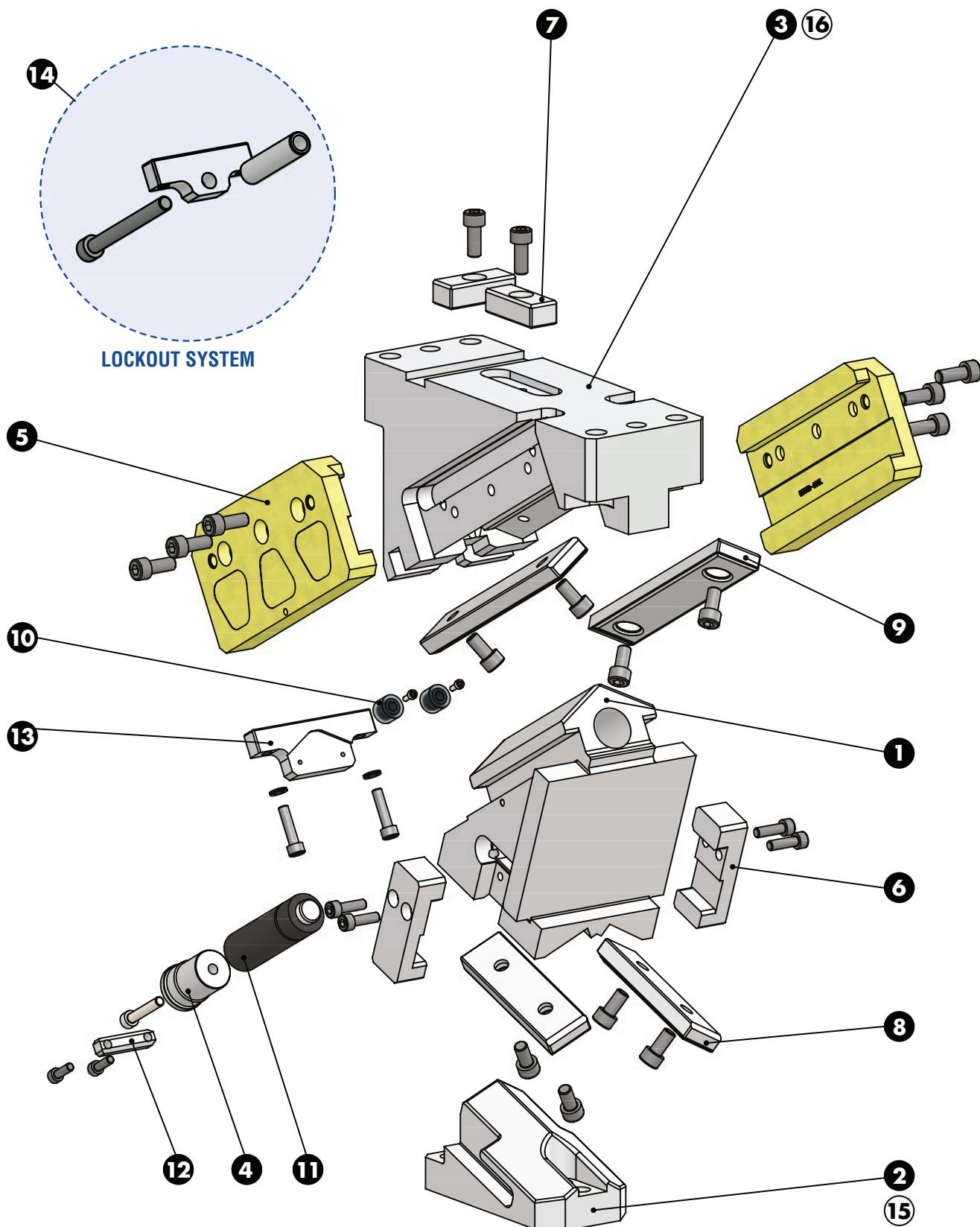


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{ss}
0°	50°	28	33,33	43,5
5°	50°	30,8	33,45	43,5
10°	50°	33,84	33,84	43,5
15°	50°	36,89	34,5	43,5
20°	50°	40	35,46	43,5
25°	50°	43,5	36,77	43,5
30°	50°	47,2	38,48	43,5
35°	50°	51,29	40,68	43,5
40°	50°	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





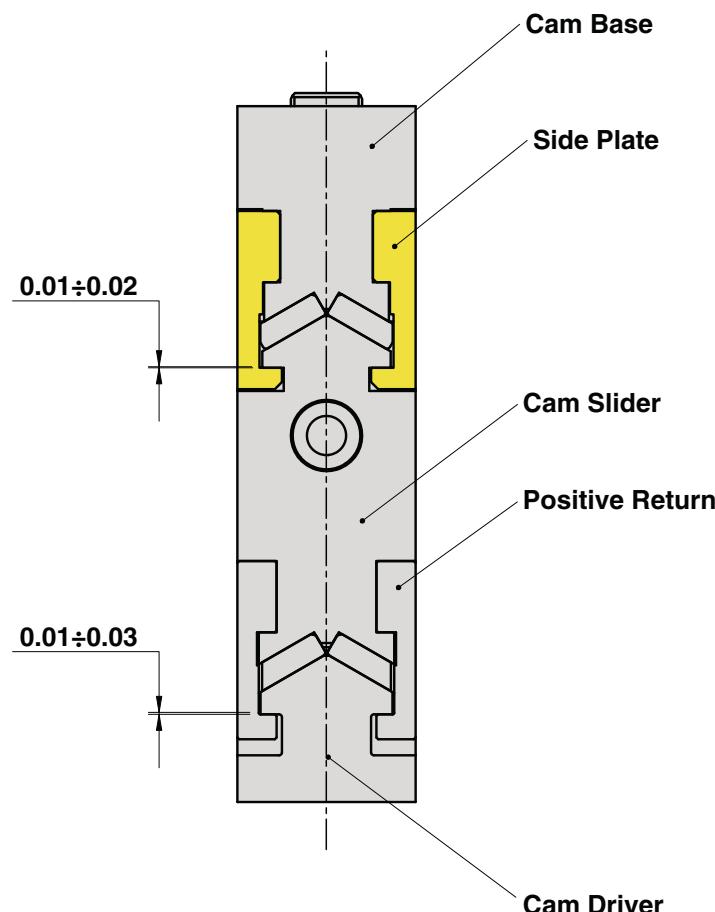
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

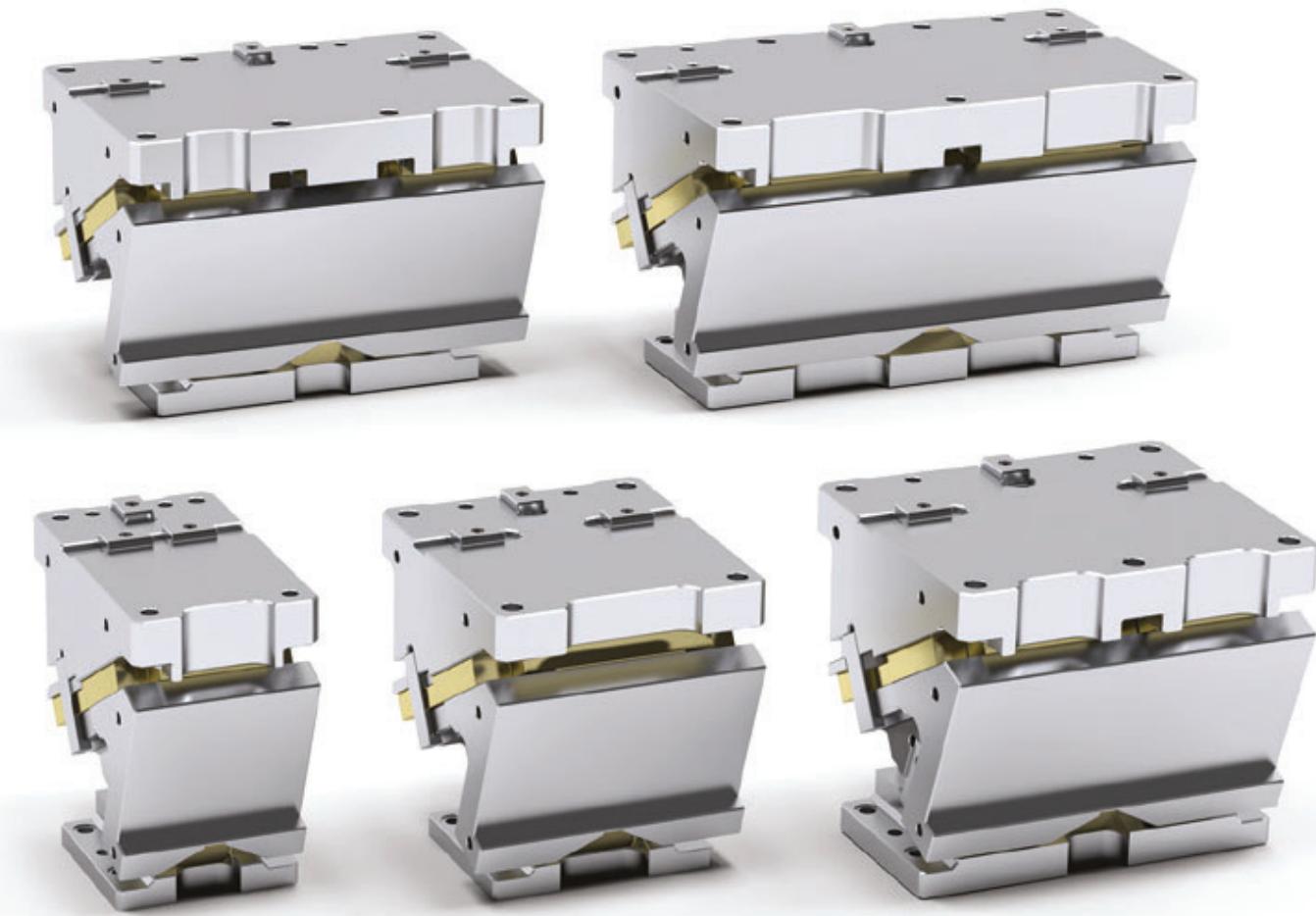
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHW

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



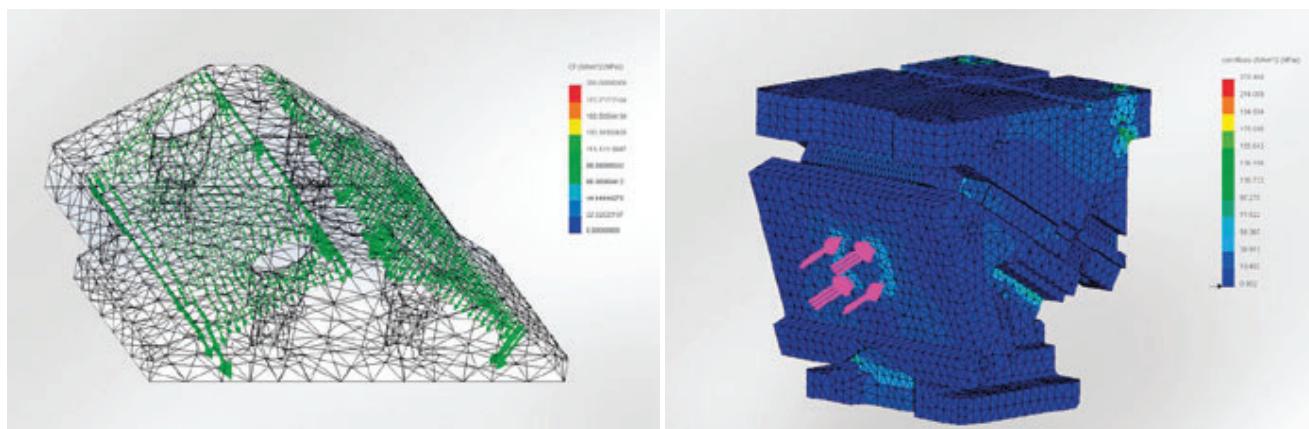
Cam Units CLB Schieber CLB Unità a Camme CLB



OMCR®
STANDARD DIE COMPONENTS



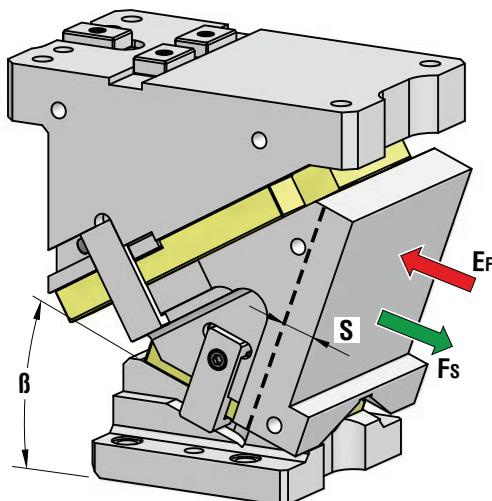
OMCR CODE	Work Angle β	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10^6 cycles (kN)	Extraction Force (kN)			Page number
						F _s	Spring	Gas Spring	
CLB200	0°÷60° (5° steps)	200	350	200x180	302	2,12÷2,73	8,88÷11,42	738	
CLB300	0°÷60° (5° steps)	300	350	300x180	411	4,25÷5,46	17,76÷22,83	742	
CLB400	0°÷60° (5° steps)	400	350	400x180	526	4,25÷5,46	17,76÷22,83	746	
CLB500	0°÷60° (5° steps)	500	350	500x180	743	6,37÷8,19	26,64÷34,25	750	
CLB600	0°÷60° (5° steps)	600	350	600x180	865	8,50÷10,92	35,52÷45,67	754	



Research and product development



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



WEB



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P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)				
				β	S	F _s	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



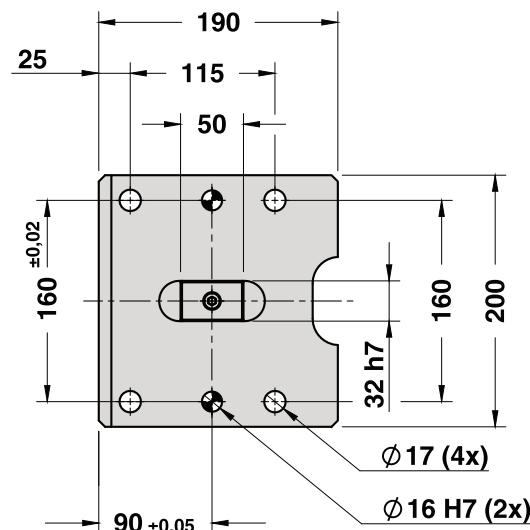
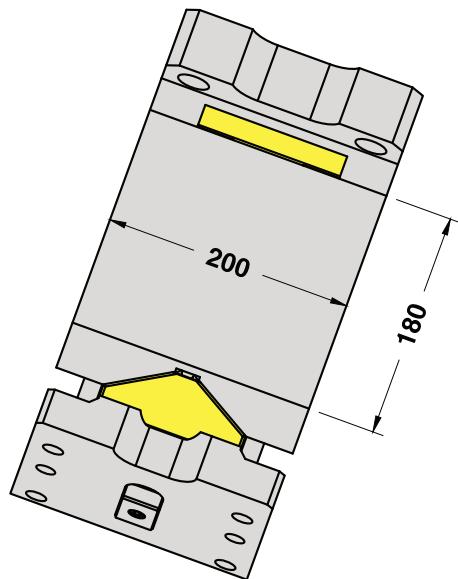
Art.	Work Angle = 5°	Return type
CLB200	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)			
		β	A	B	C
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

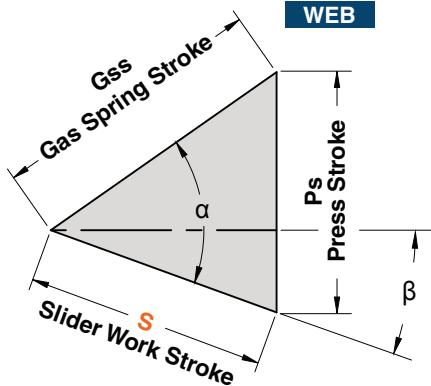
X VIEW



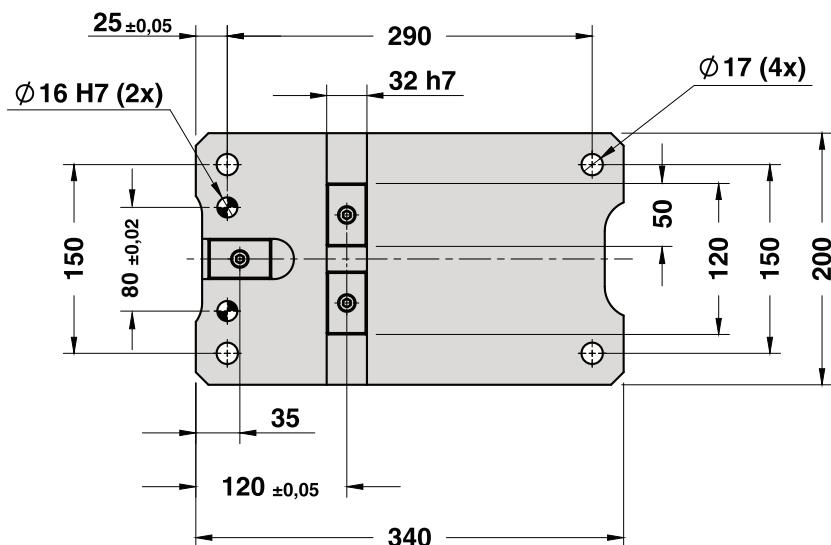
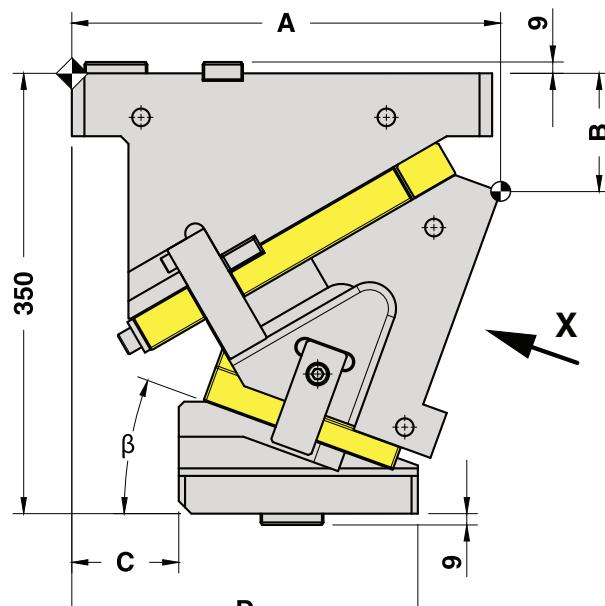
CAM DIAGRAM



WEB

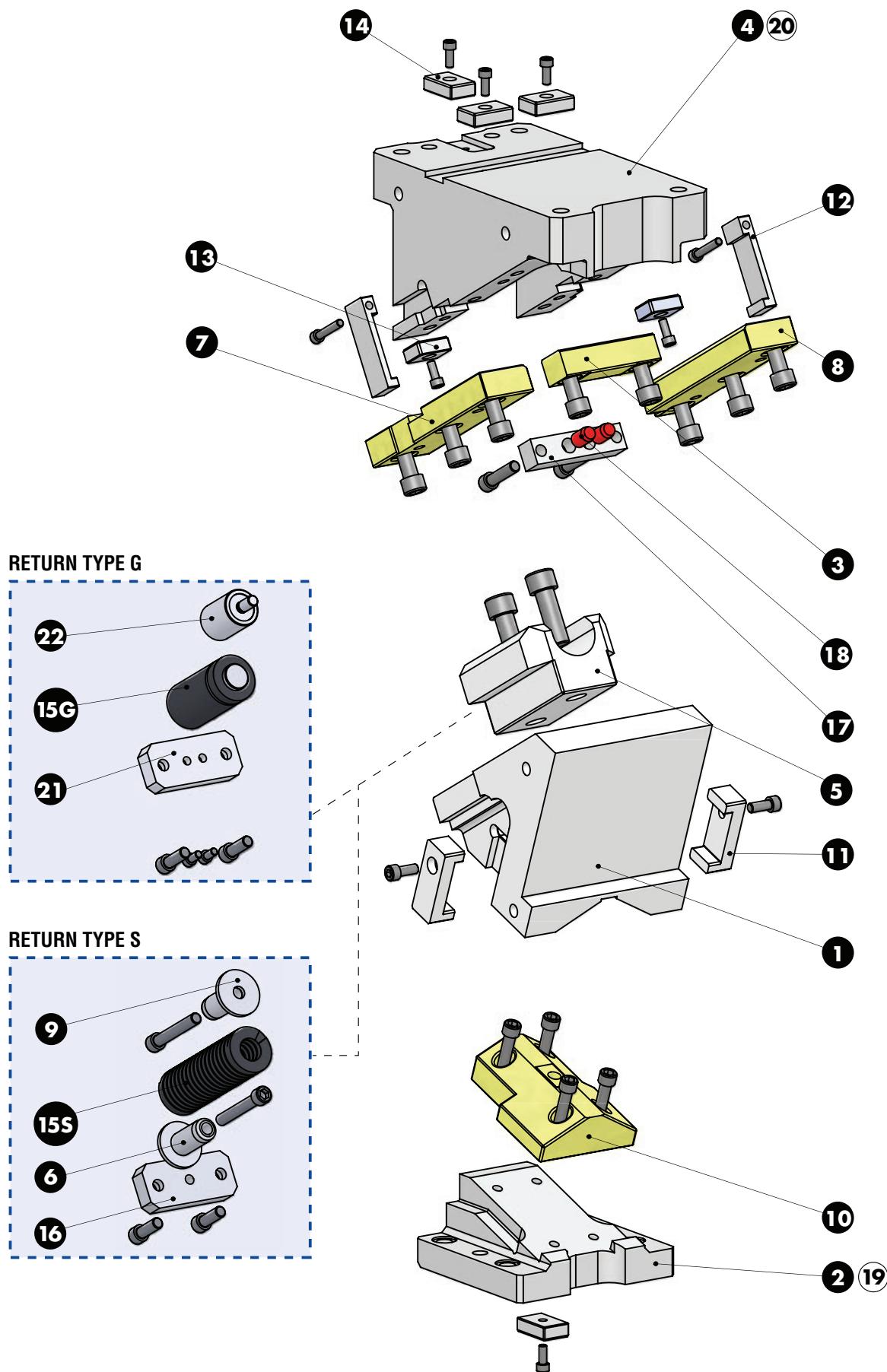


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	s	Ps	Gss
0°	50°	38,57	45,96	60
5°	50°	42,59	46,14	60
10°	50°	46,67	46,67	60
15°	50°	50,88	47,58	60
20°	50°	55,30	48,91	60
25°	50°	60,00	50,71	60
30°	50°	65,10	53,07	60
35°	50°	70,75	56,11	60
40°	50°	77,13	60,00	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





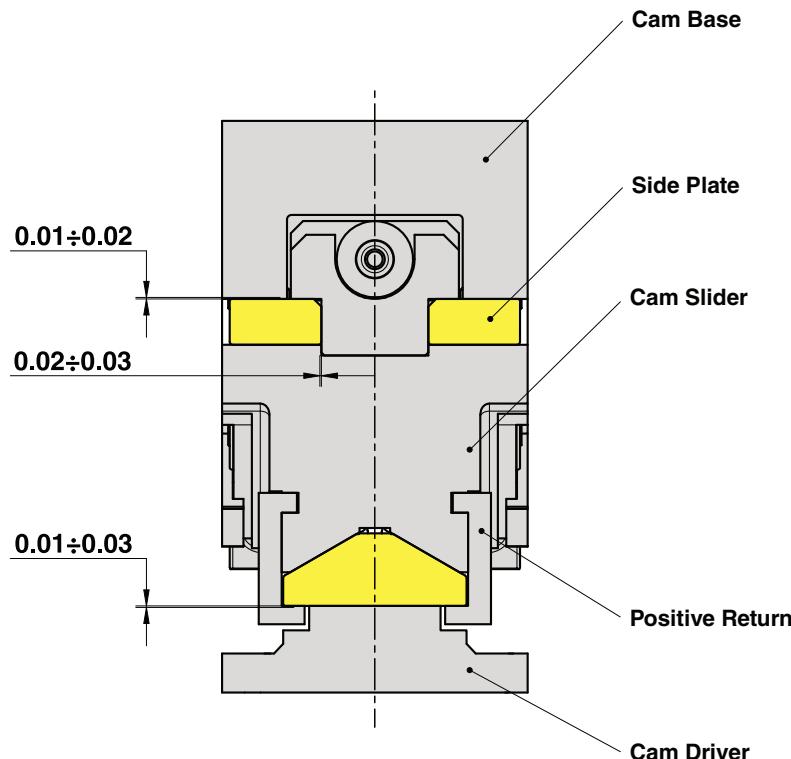
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

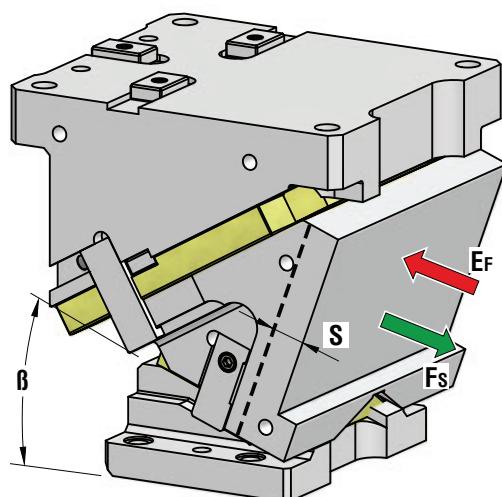


PART LIST

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



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P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)			
				S	F _s	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



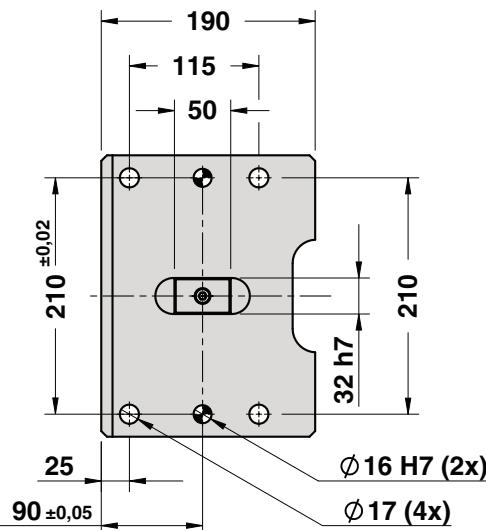
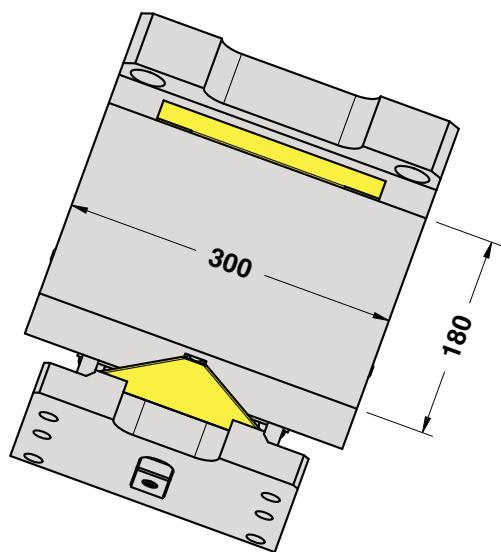
Art.	Work Angle = 5°	Return type
CLB300	05	G

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		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

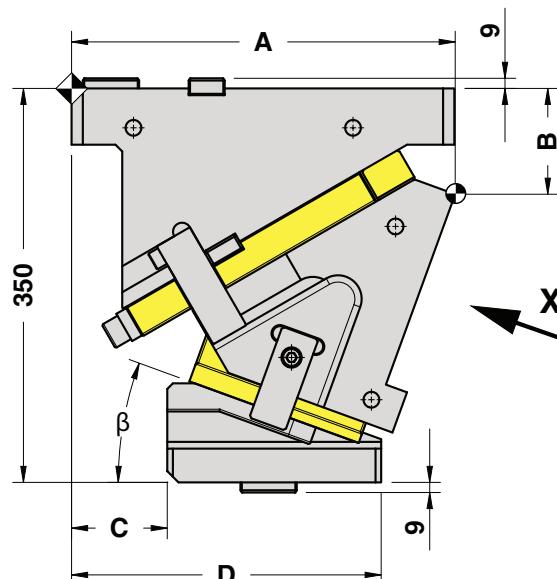
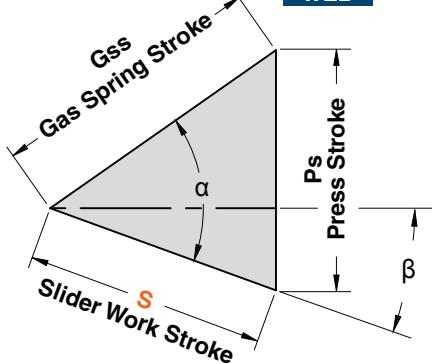
X VIEW



CAM DIAGRAM

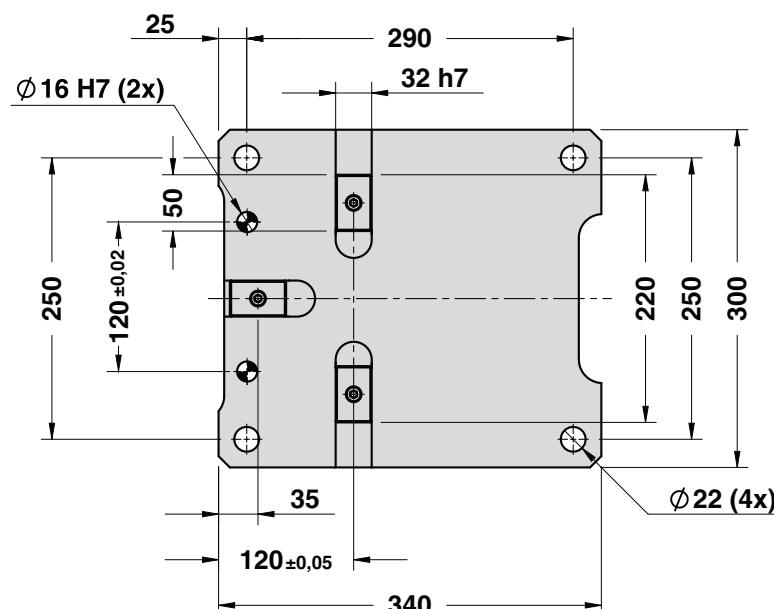


WEB



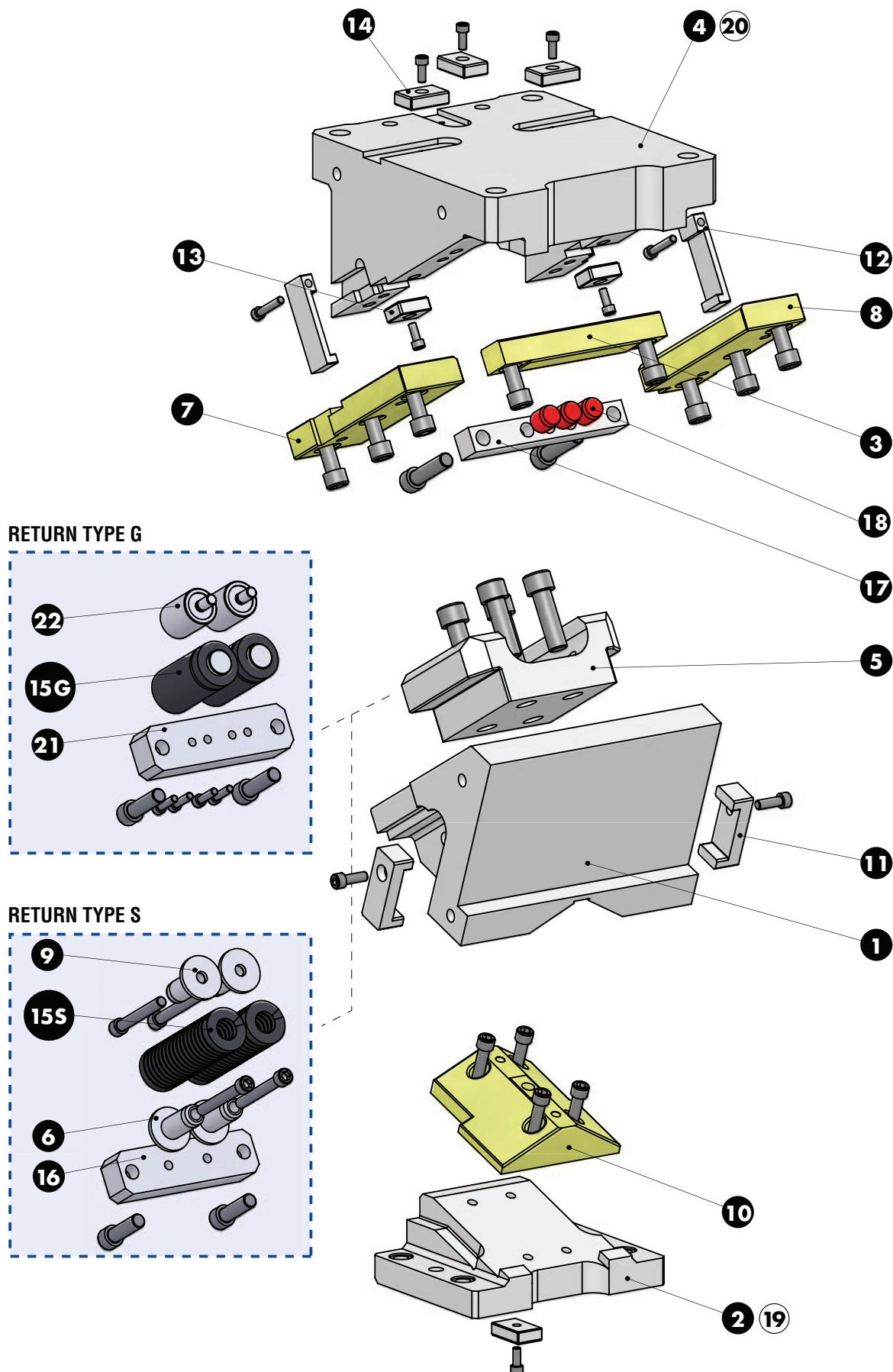
Cam Units CLB

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





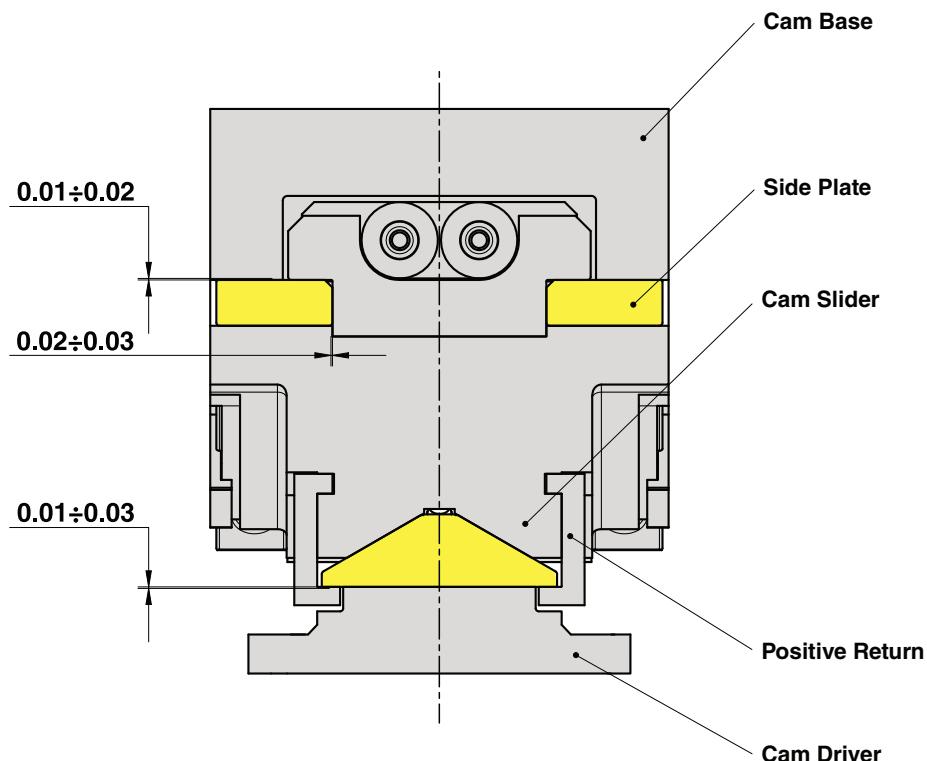
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



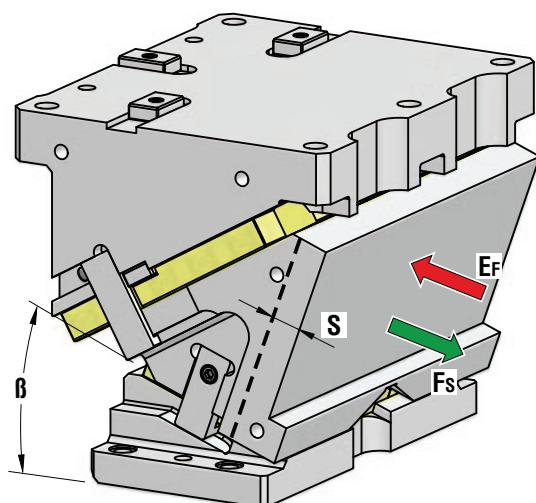
Cam Units CLB

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



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P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)				
				β	S	F _s	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		

Return Type: G = Gas Spring / S = Spring



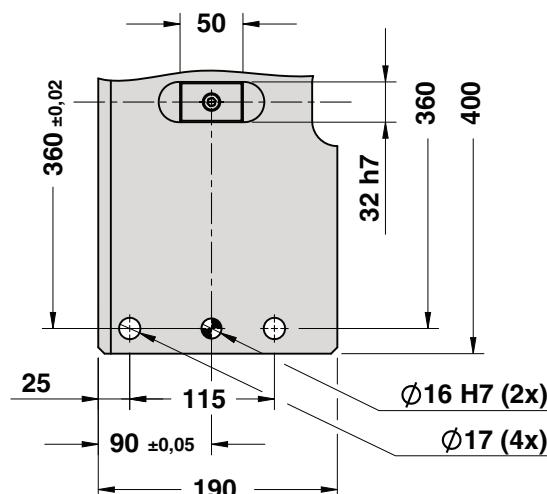
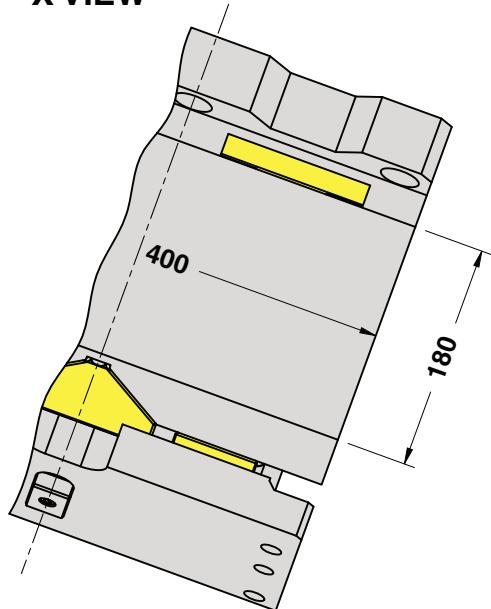
Art.	Work Angle = 5°	Return type
CLB400	05	S

OMCR CODE	Work Angle	Overall Dimensions (mm)			
		β	A	B	C
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



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

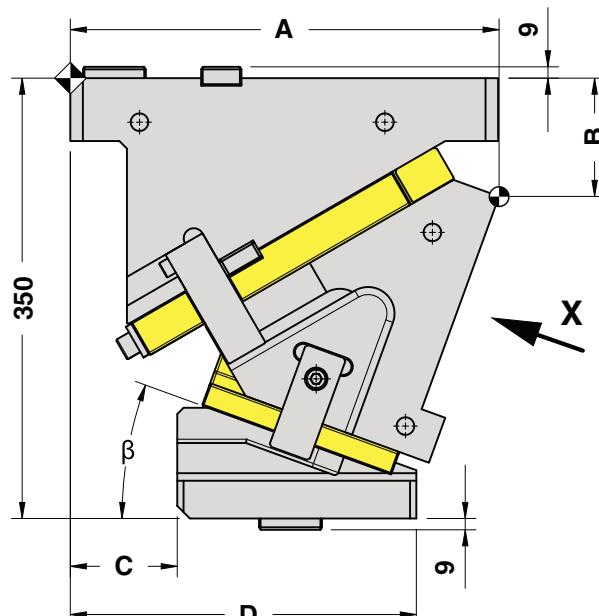
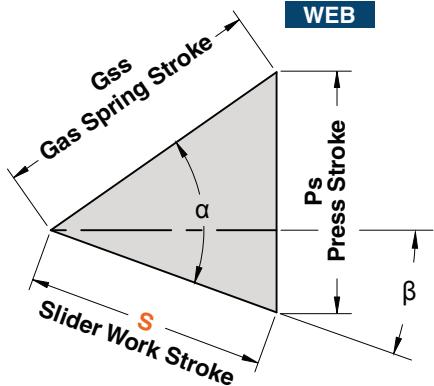
X VIEW



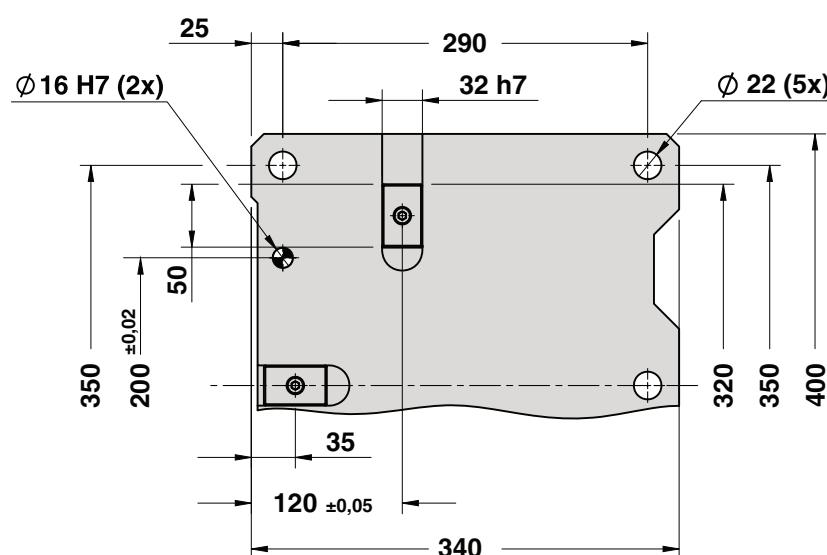
CAM DIAGRAM



WEB

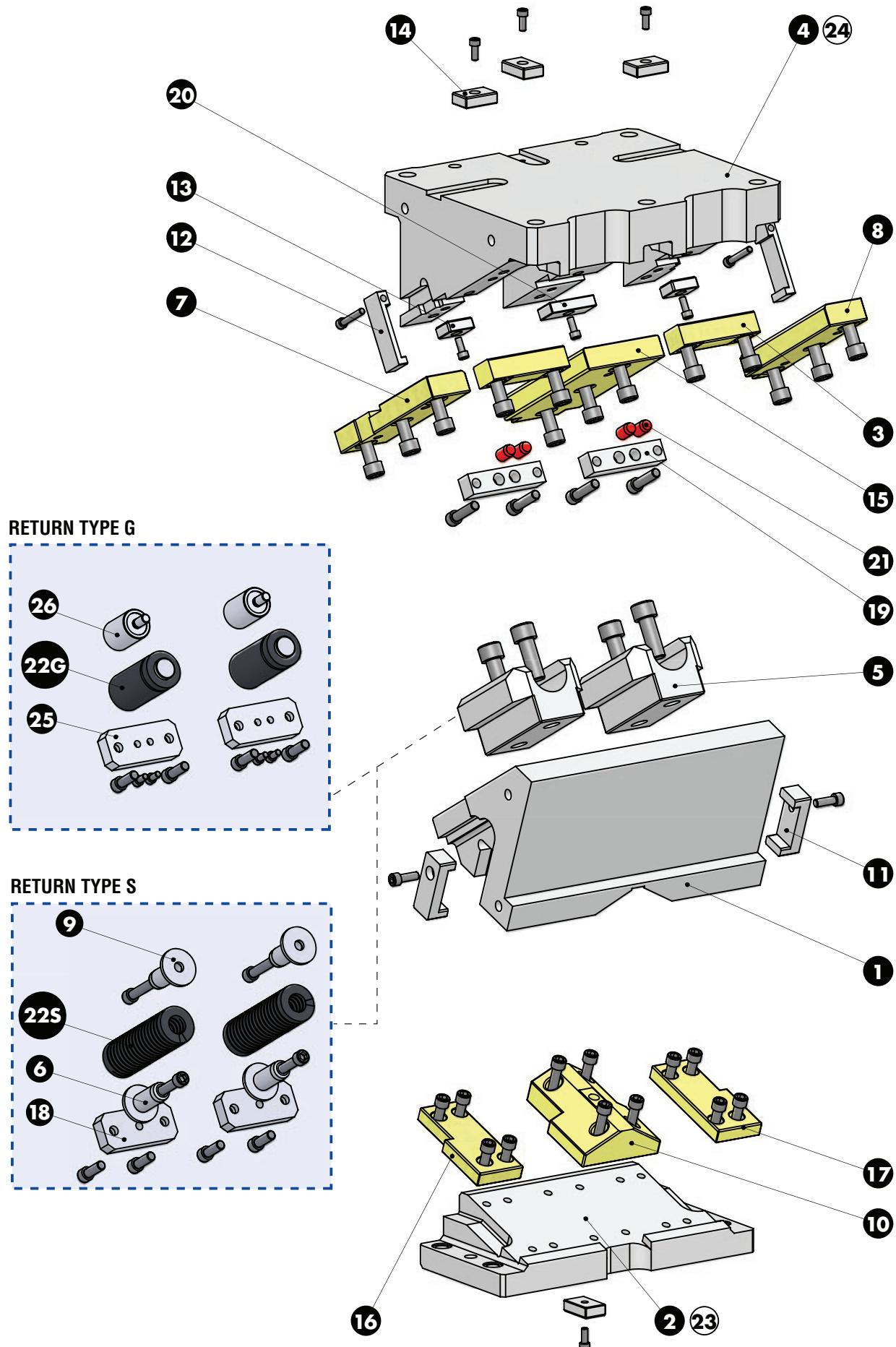


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	s	Ps	Gss
0°	50°	38,57	45,96	60
5°	50°	42,59	46,14	60
10°	50°	46,67	46,67	60
15°	50°	50,88	47,58	60
20°	50°	55,30	48,91	60
25°	50°	60	50,71	60
30°	50°	65,10	53,07	60
35°	50°	70,75	56,11	60
40°	50°	77,13	60	60
45°	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





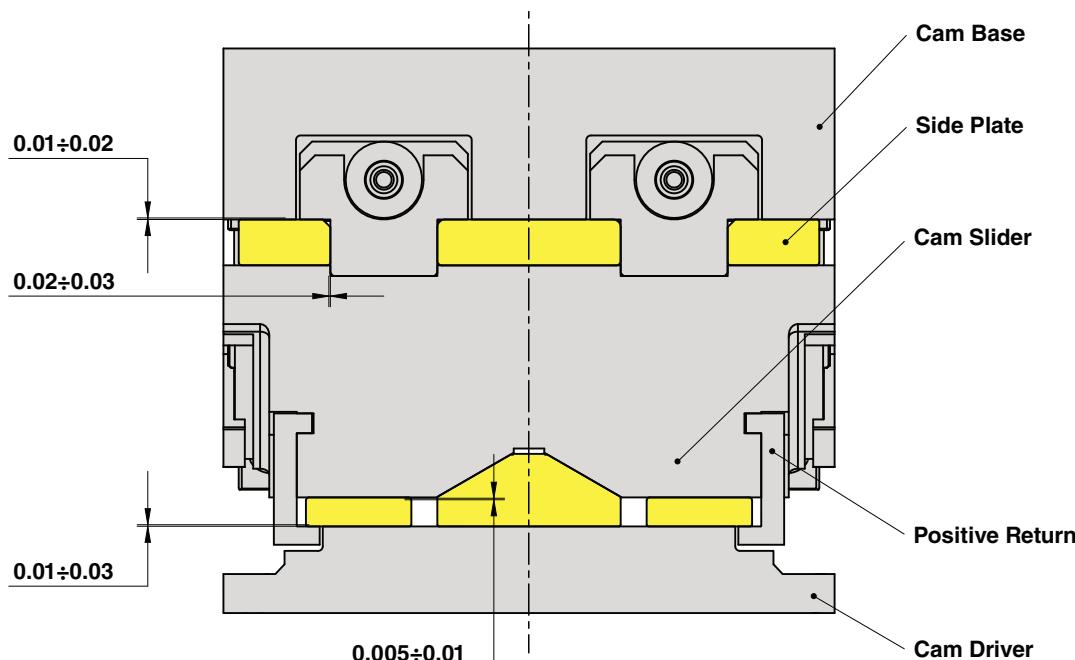
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

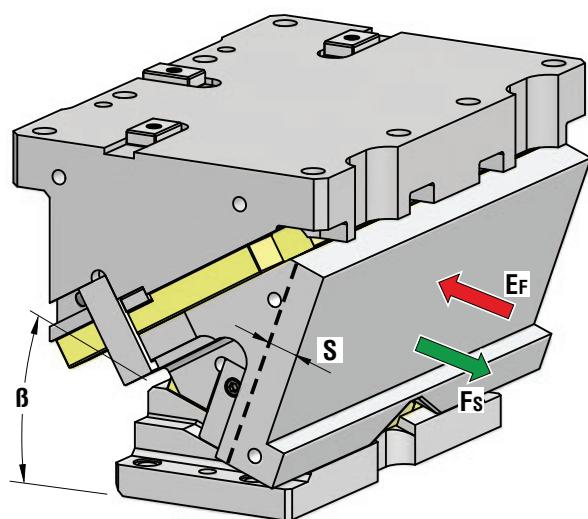


PART LIST

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



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P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)			
				S	F _s	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



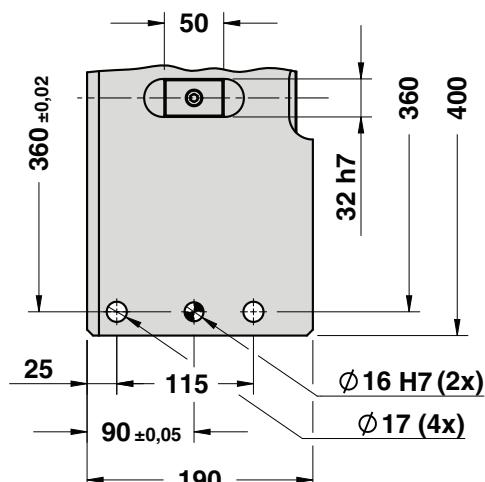
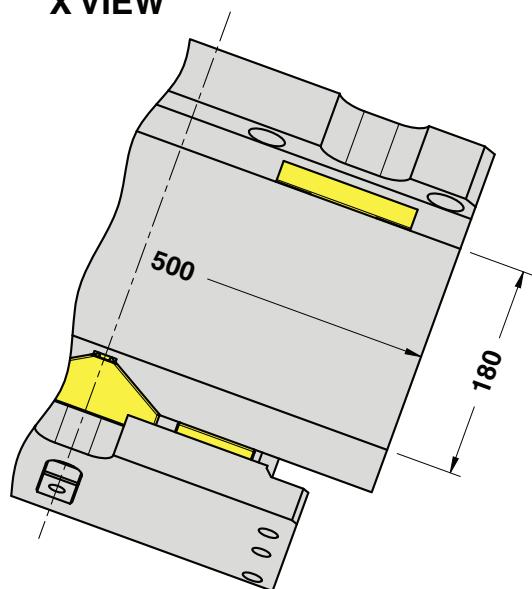
Art.	Work Angle = 5°	Return type
CLB500	05	G

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		A	B	C	D
CLB500.00	0°	313	58	138	328
CLB500.05	5°	320,64	64,34	125	315
CLB500.10	10°	331,08	72,47	115	305
CLB500.15	15°	336,17	82,37	100	290
CLB500.20	20°	340,76	94	85	275
CLB500.25	25°	344,69	102,32	70	260
CLB500.30	30°	347,83	112,25	55	245
CLB500.35	35°	355,03	123,73	45	235
CLB500.40	40°	351,17	136,66	25	215
CLB500.45	45°	356,12	150,95	15	205
CLB500.50	50°	348,77	161,49	-6	184
CLB500.55	55°	352,01	178,16	-15	175
CLB500.60	60°	332,75	195,83	-45	145



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

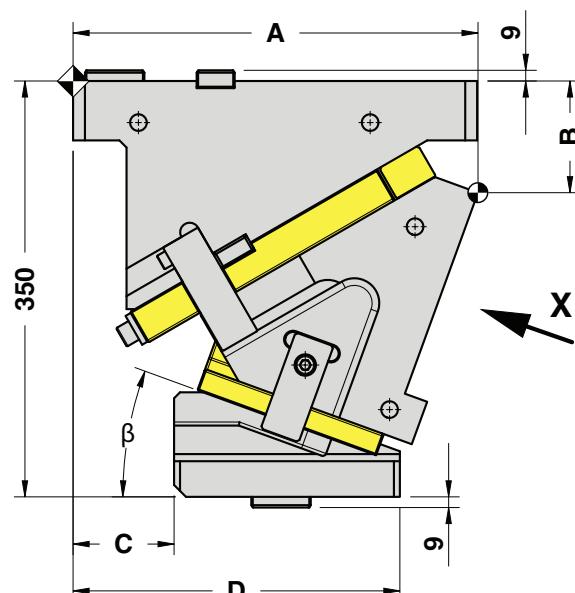
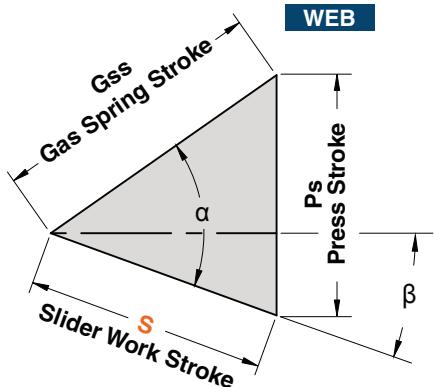
X VIEW



CAM DIAGRAM

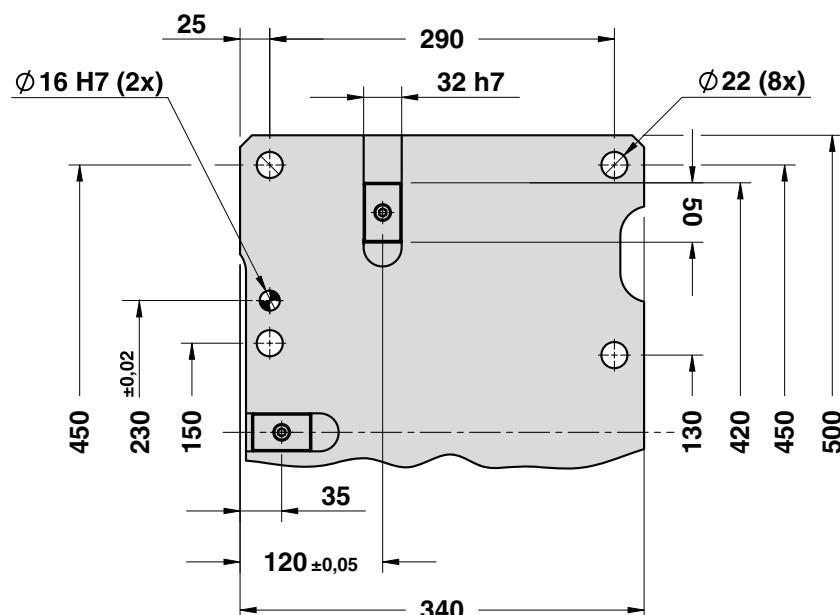


WEB



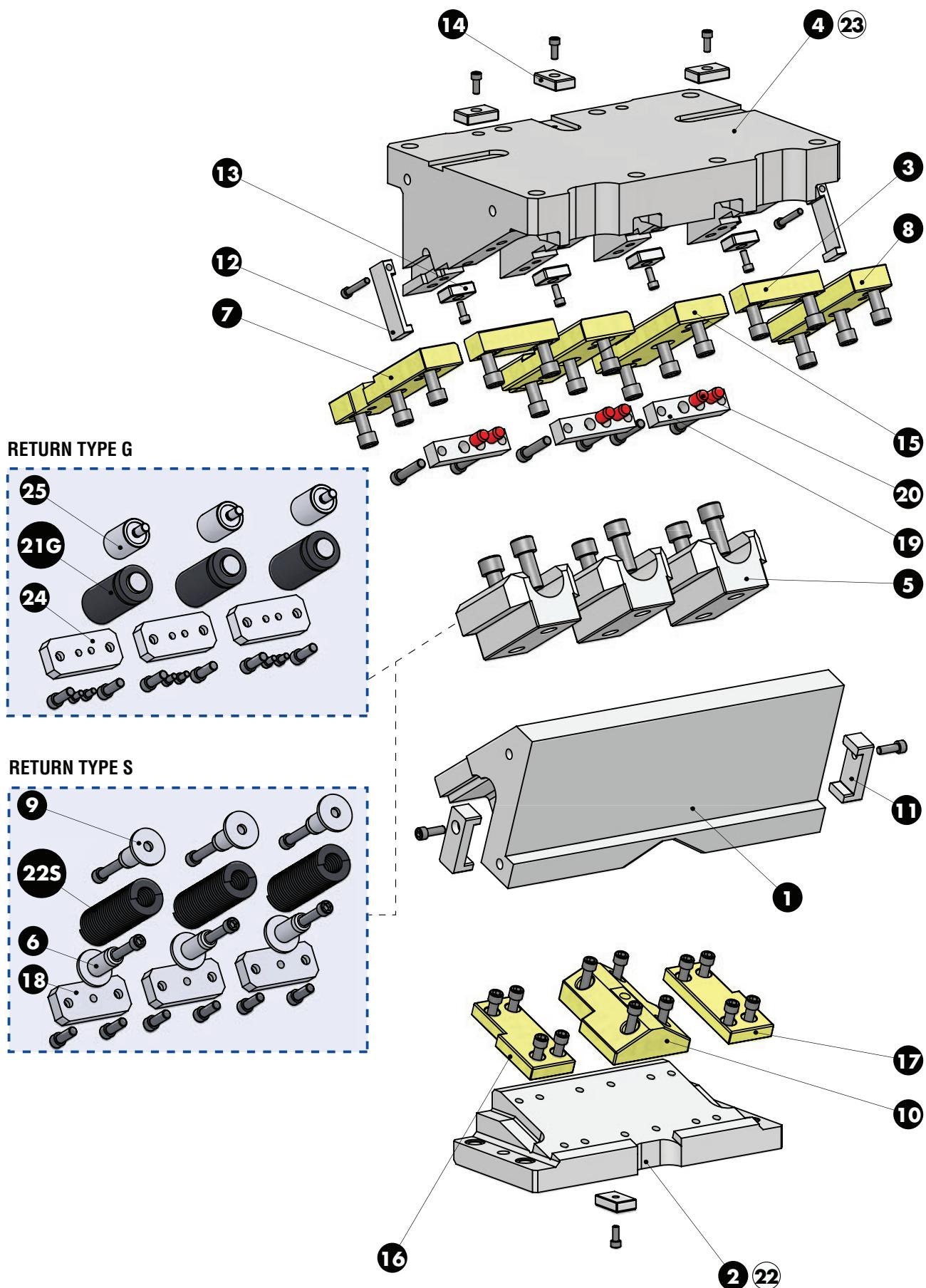
Cam Units CLB

Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	<i>S</i>	<i>Ps</i>	<i>Gss</i>
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





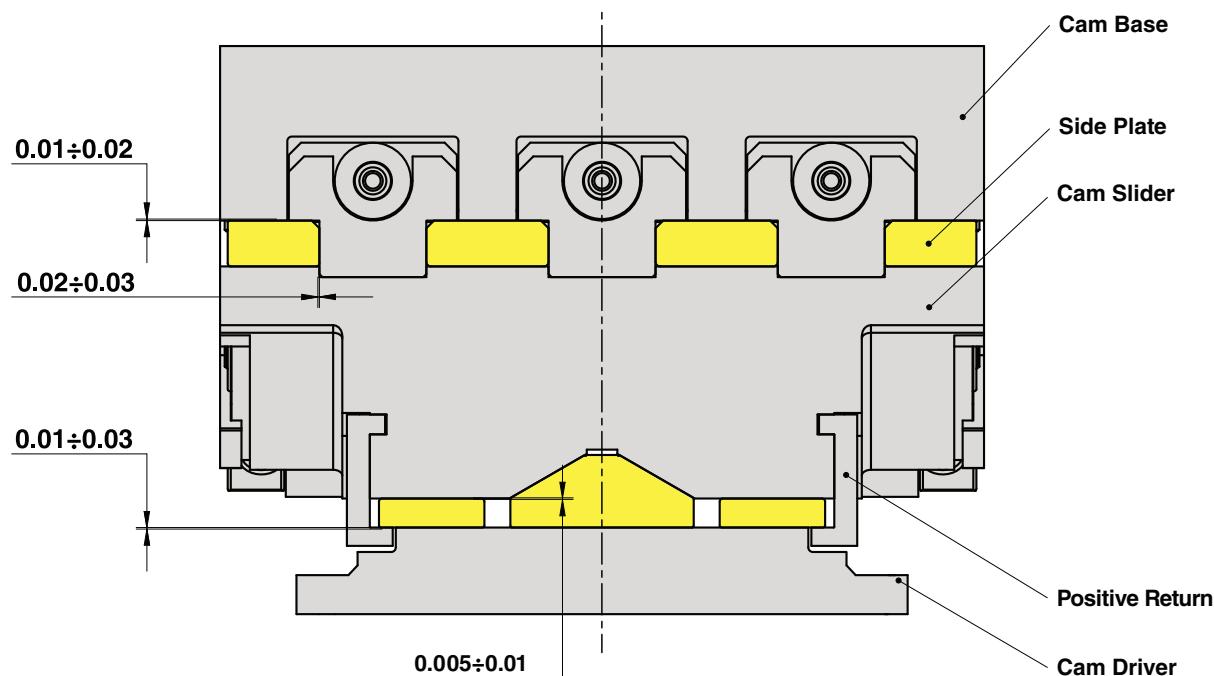
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

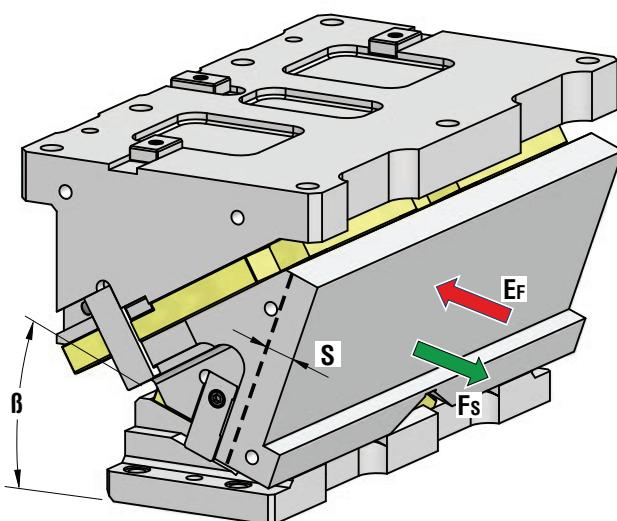


PART LIST

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				S	F _s
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



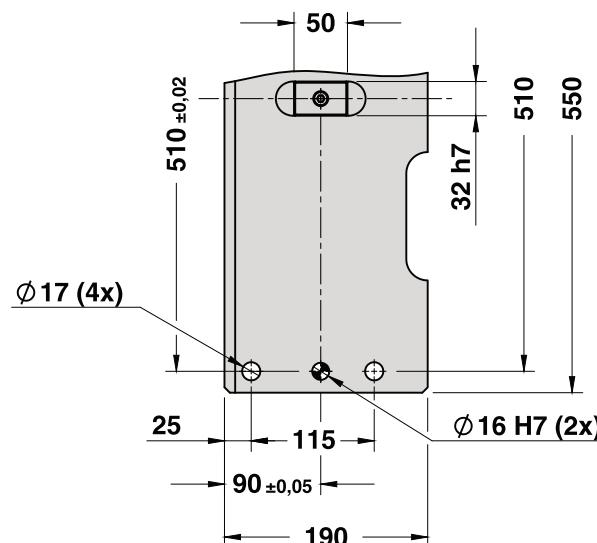
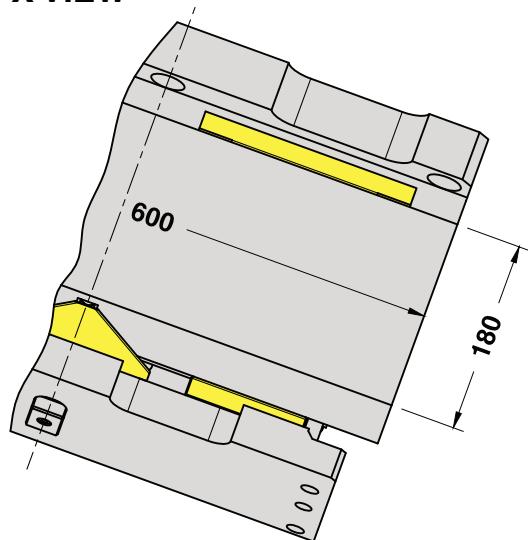
Art.	Work Angle = 5°	Return type
CLB600	05	G

OMCR CODE	Work Angle β	Overall Dimensions (mm)			
		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

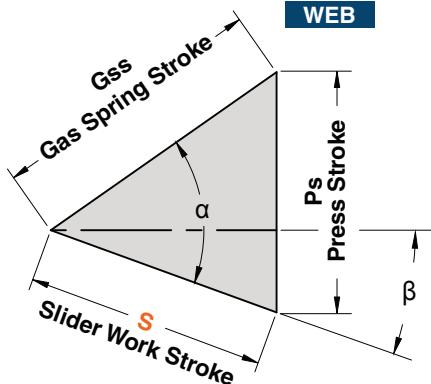
X VIEW



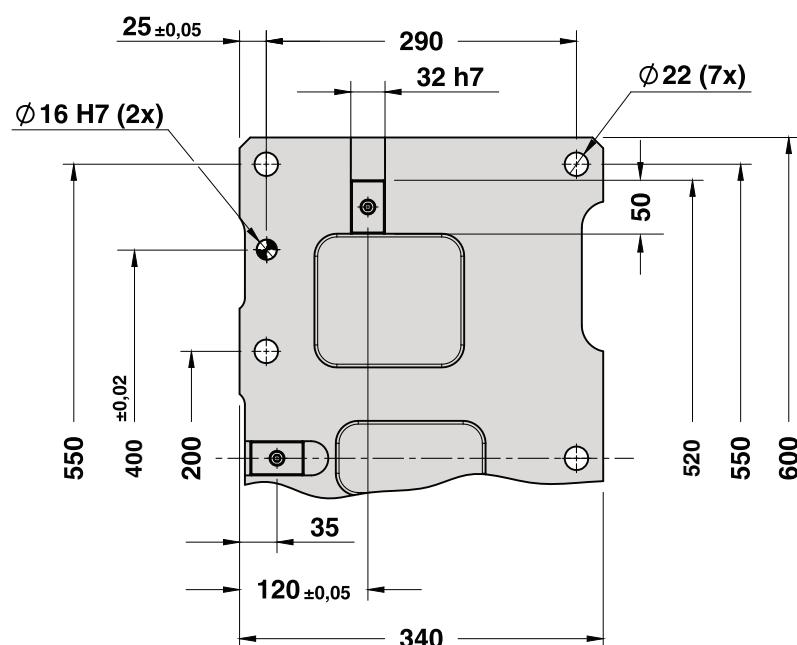
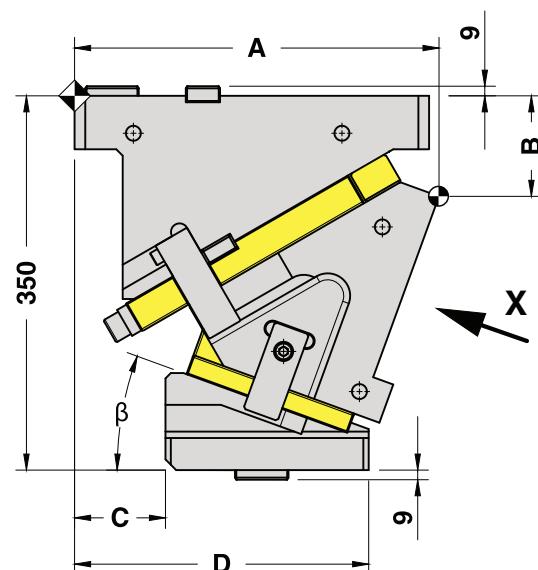
CAM DIAGRAM



WEB

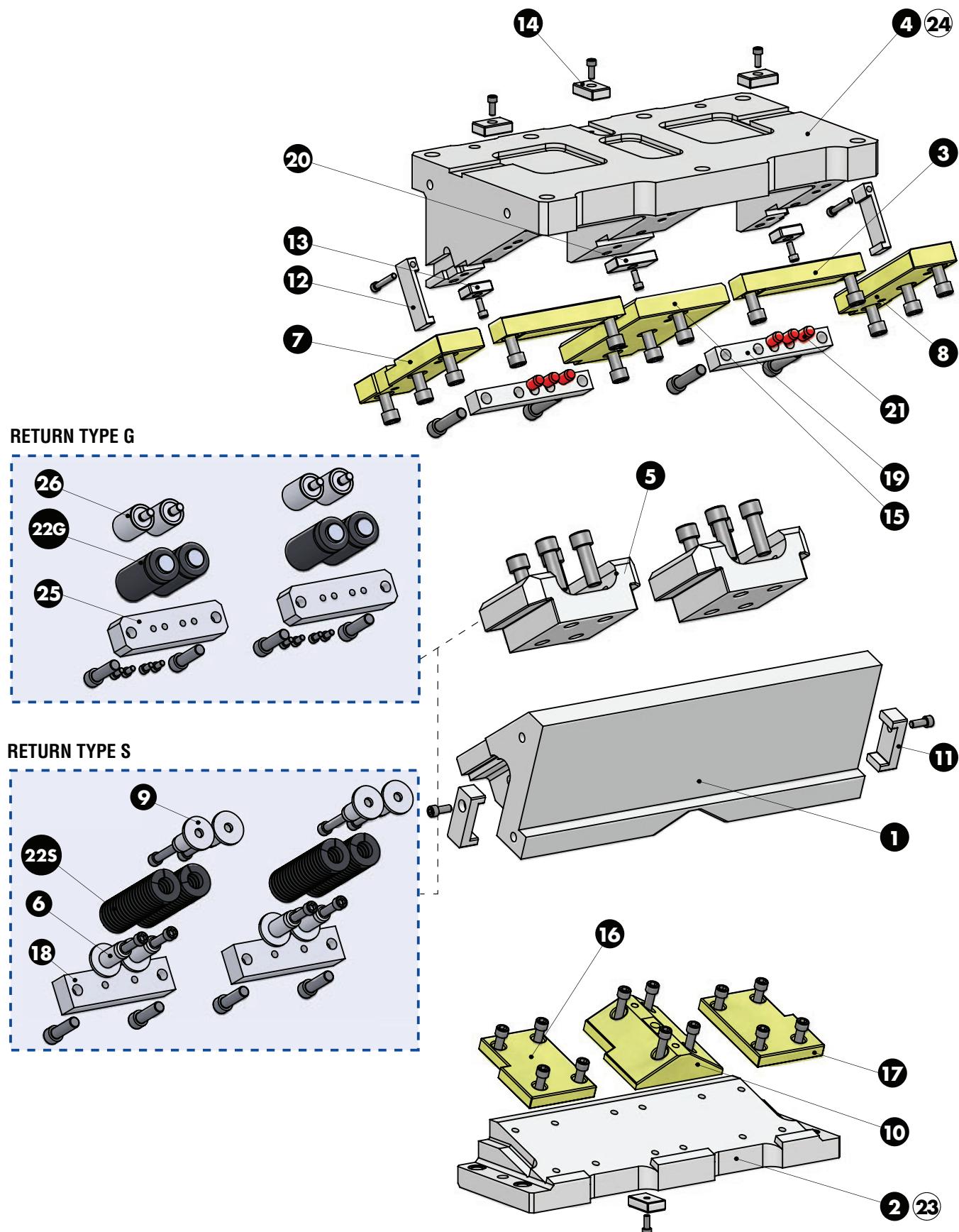


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	38,57	45,96	60
5°	50°	42,59	46,14	60
10°	50°	46,67	46,67	60
15°	50°	50,88	47,58	60
20°	50°	55,30	48,91	60
25°	50°	60,00	50,71	60
30°	50°	65,10	53,07	60
35°	50°	70,75	56,11	60
40°	50°	77,13	60,00	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





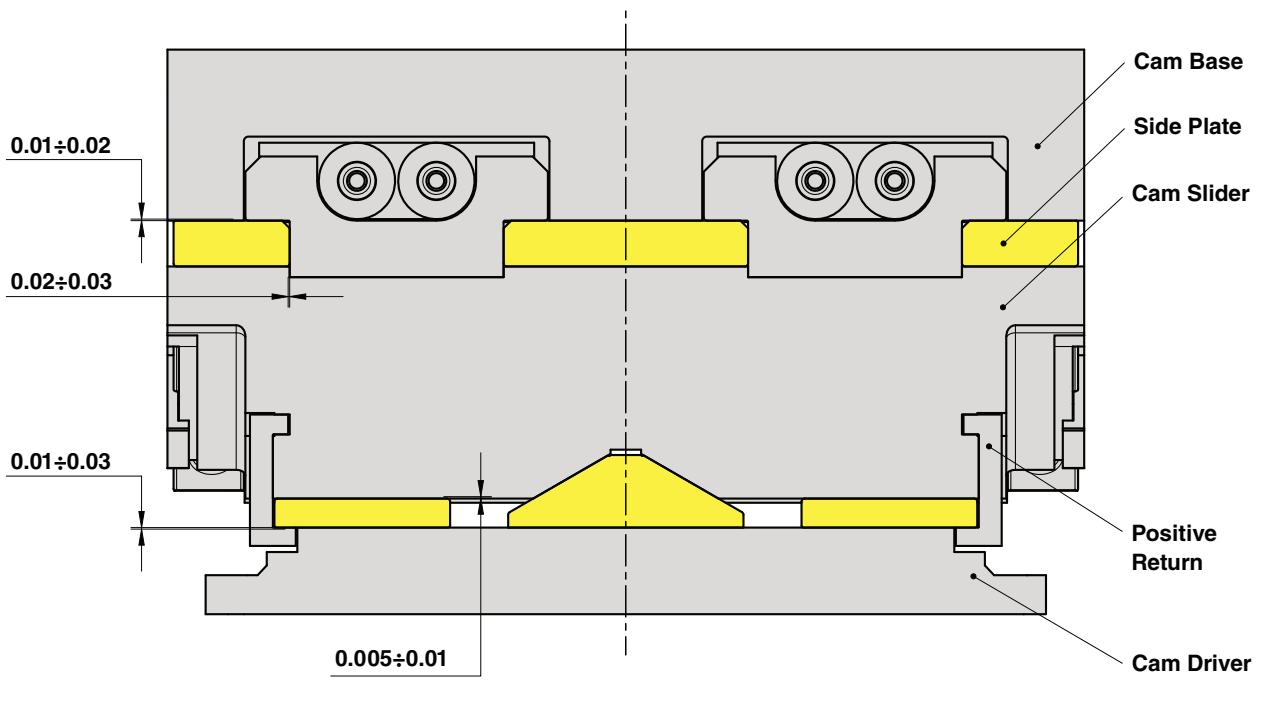
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA





AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



PART LIST

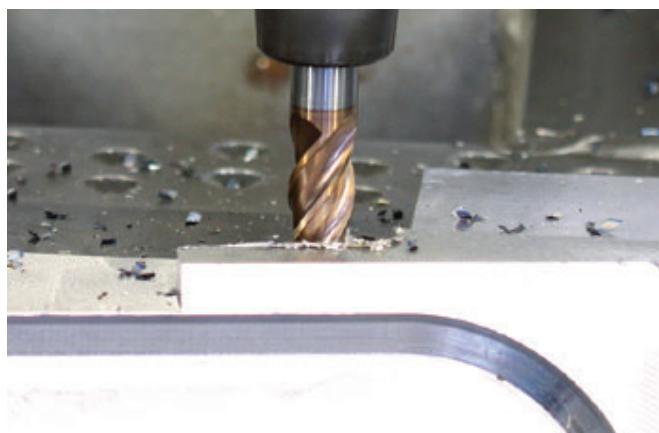
Particular number	Description	Material	Quantity
1	Cam Slider	GG-30	1
2	Cam Driver	GG-30	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	2
4	Cam Base	GG-30	1
5	Spring Guide Block	CK45 + Graphite	2
6	Spring Guide Pin	CK45	8
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Side Plate R	CuZn25Al5 + Graphite - 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

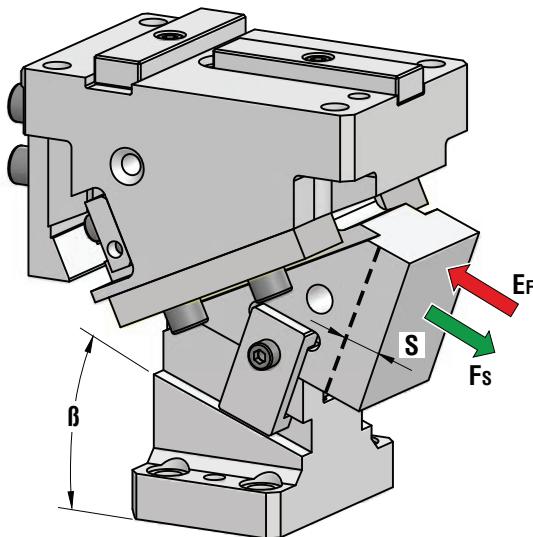
OMCR®
STANDARD DIE COMPONENTS

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	760
CHK100	0°÷70° (10° steps)	100	280	100 x "F"	96	0,99÷2,10	764
CHK200	0°÷70° (10° steps)	200	280	200 x "F"	231	1,98÷4,21	768



Advanced production tools

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA


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[P.624](#)

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				E_f	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	



Art.

Work Angle = 5°

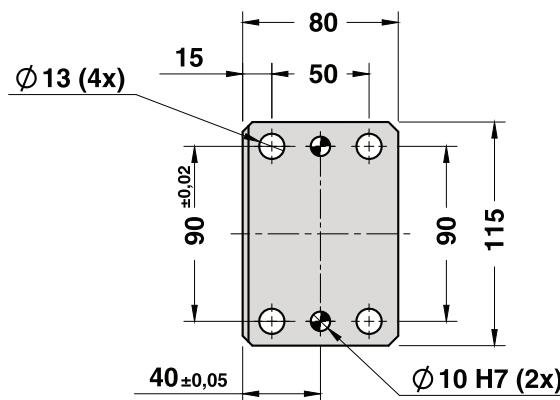
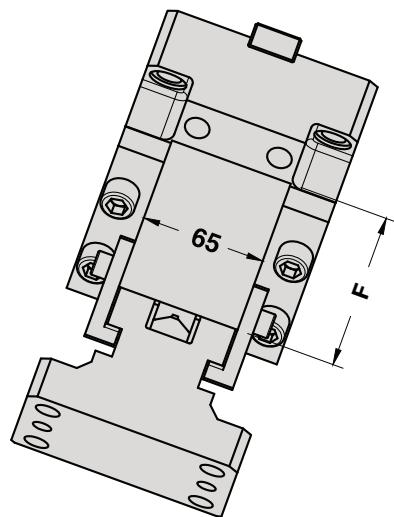
CHK065

05

OMCR CODE	Work Angle β	Overall Dimensions (mm)					
		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

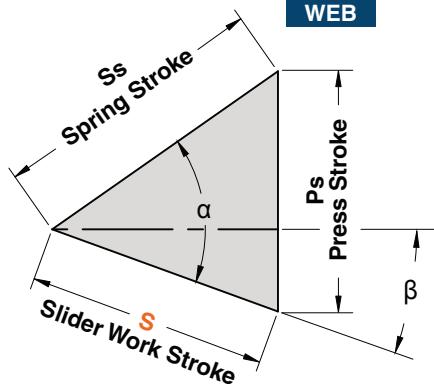
X VIEW



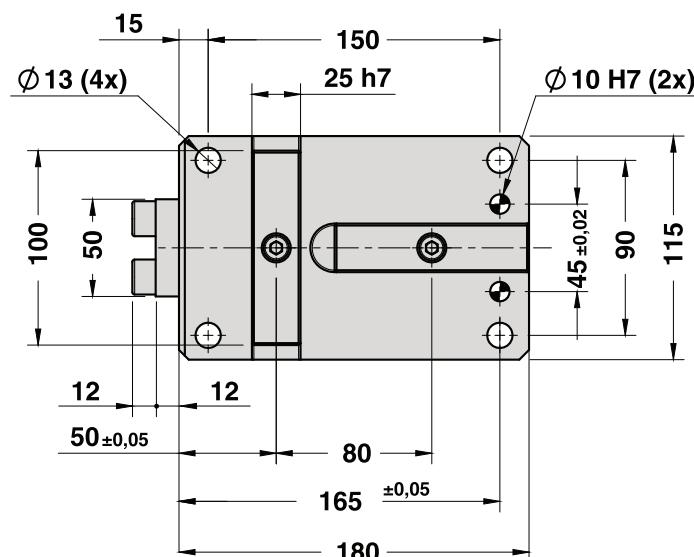
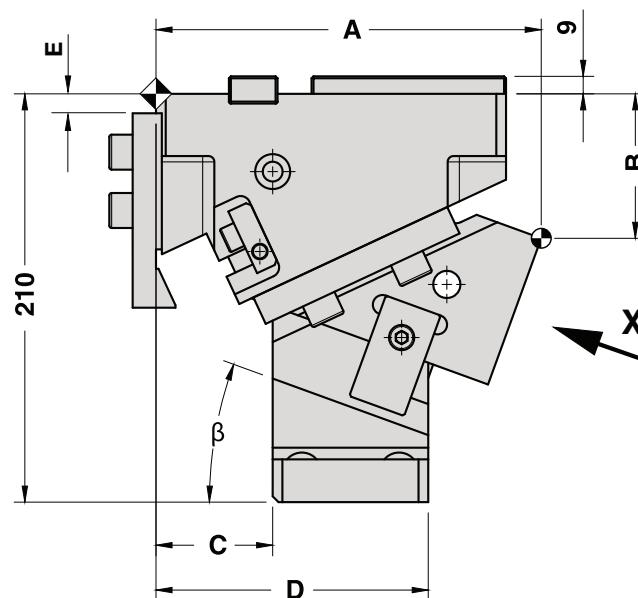
CAM DIAGRAM



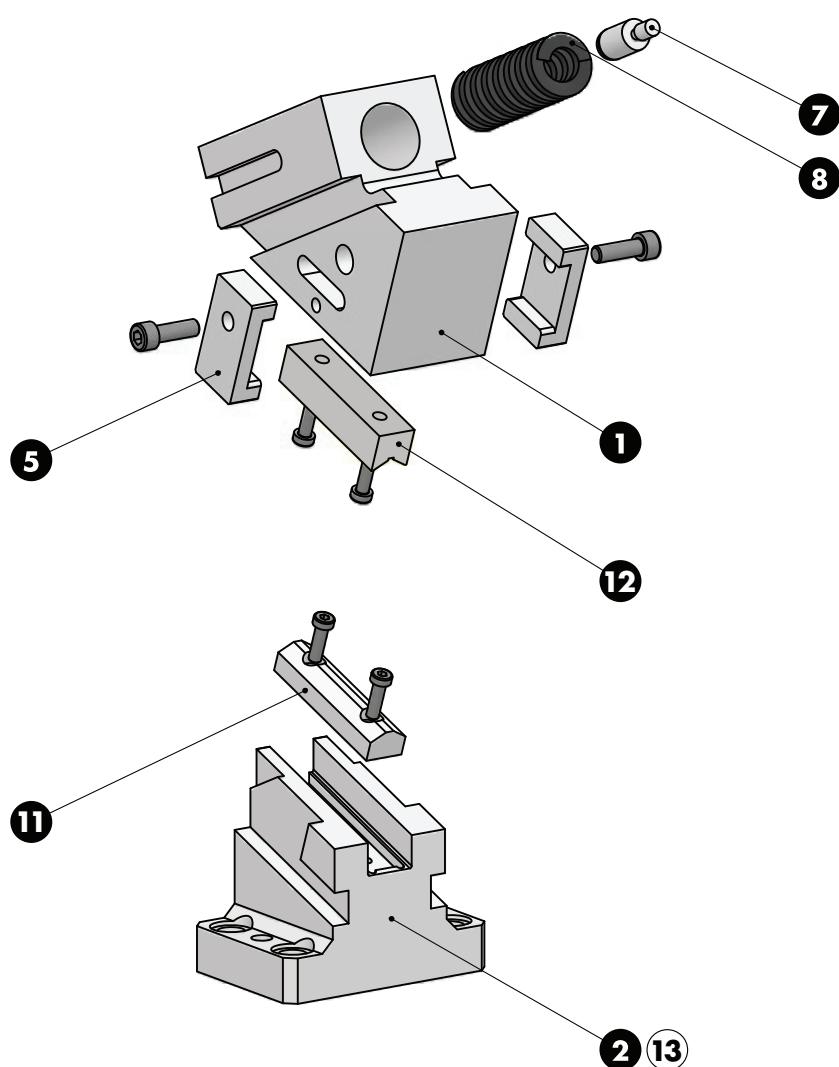
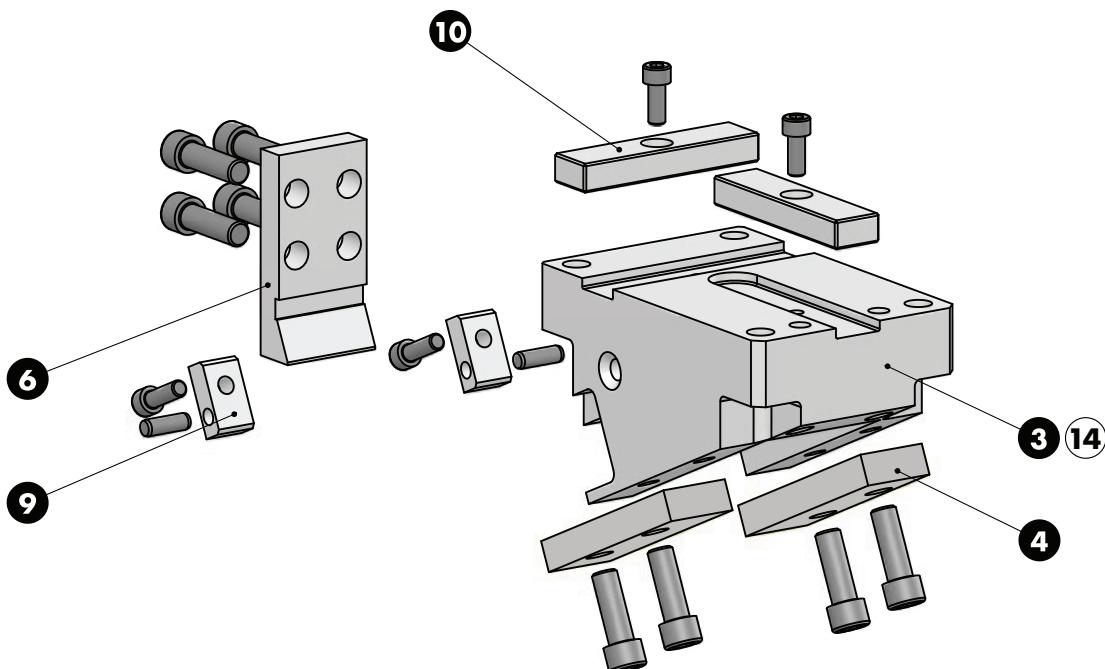
WEB



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

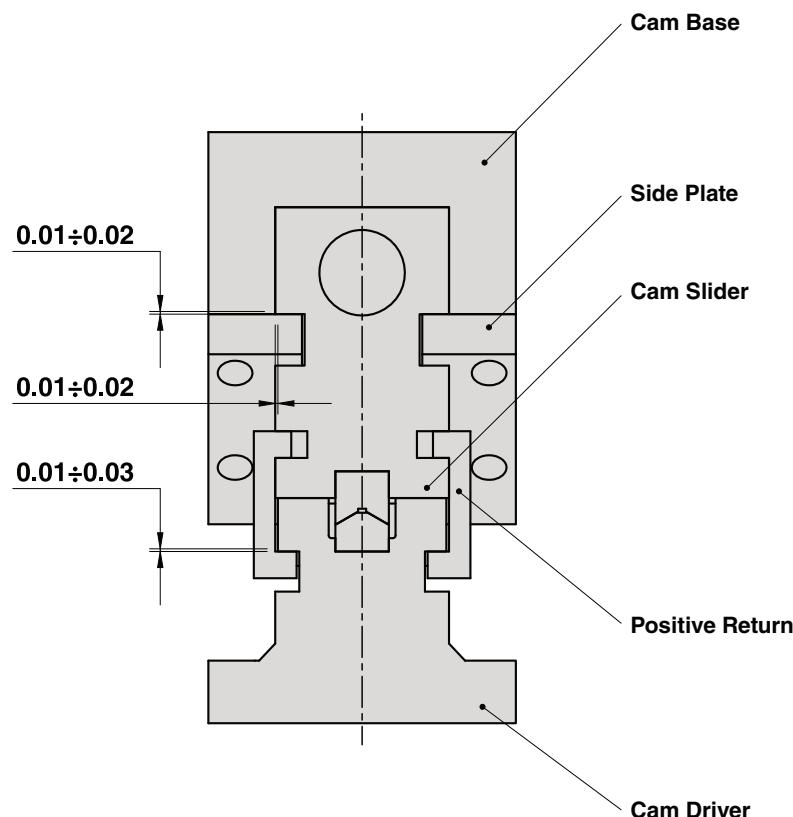


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

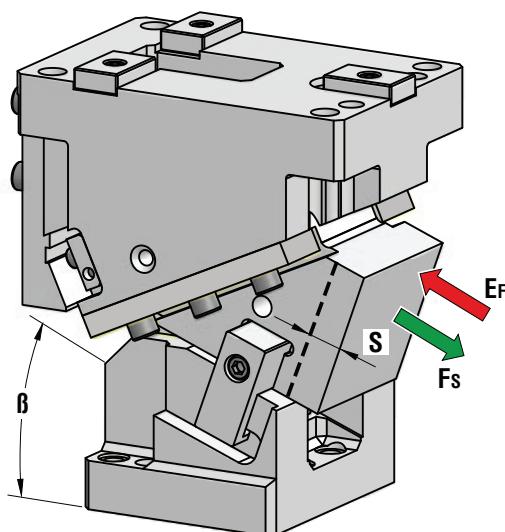


Cam Units CHK

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)
				E_f
	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



WEB



WEB



WEB



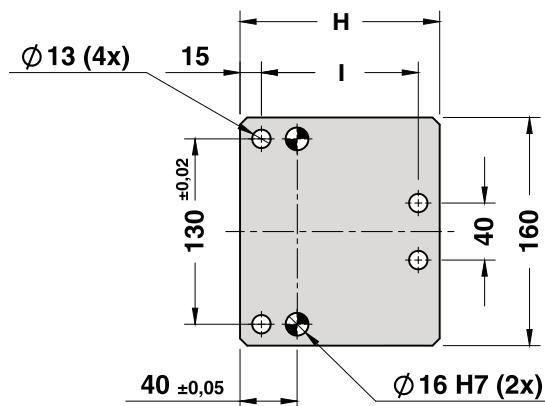
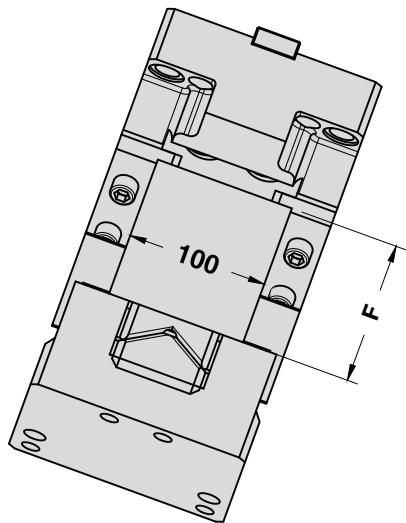
P.624

		Art.	Work Angle = 10°
		CHK100	10

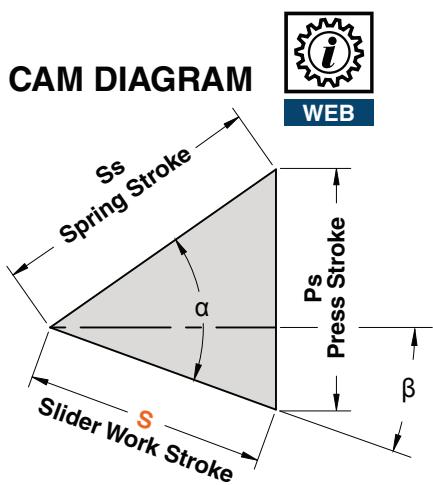
OMCR CODE	Work Angle	Overall Dimensions (mm)									
		β	A	B	C	D	E	F	G	H	I
CHK100.00	0°	240	85	80	220	55	100	17	140	110	
CHK100.10	10°	240	90	60	200	35	100	17	140	110	
CHK100.20	20°	240	110	50	190	15	100	18	140	110	
CHK100.30	30°	240	110	30	160	10	120	17	130	100	
CHK100.40	40°	240	115	30	150	10	120	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

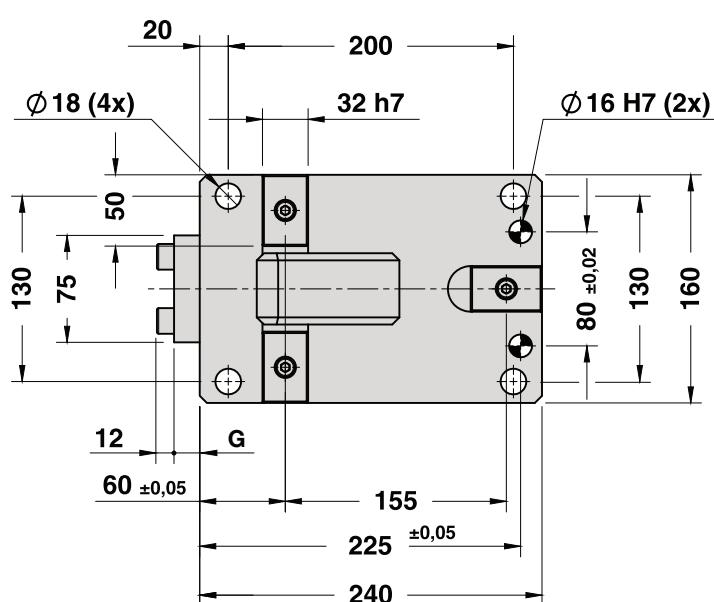
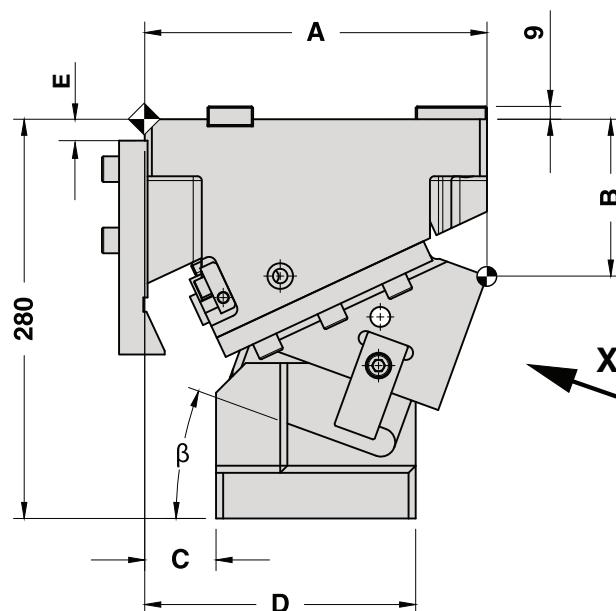
X VIEW



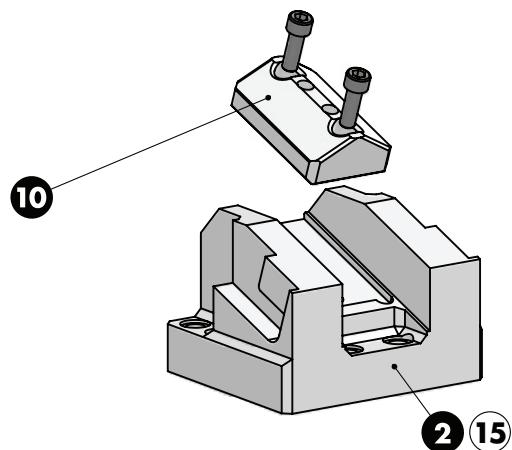
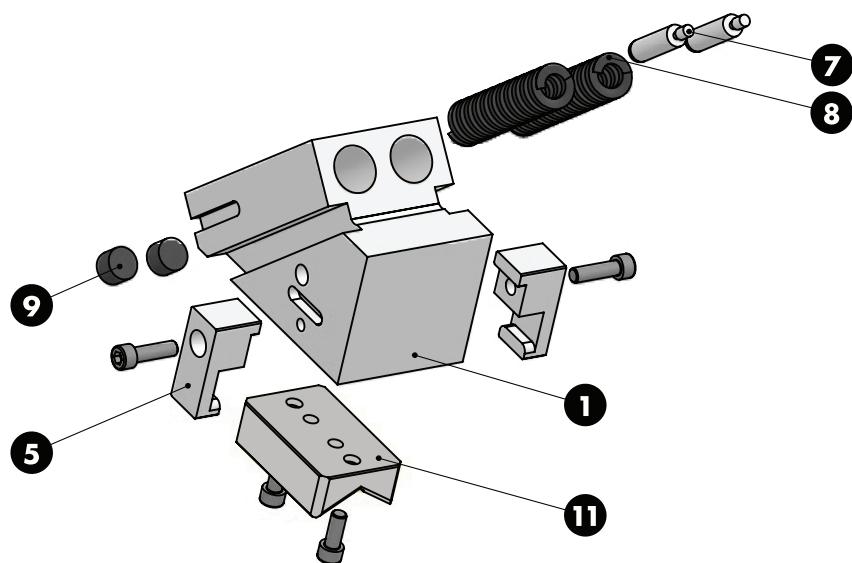
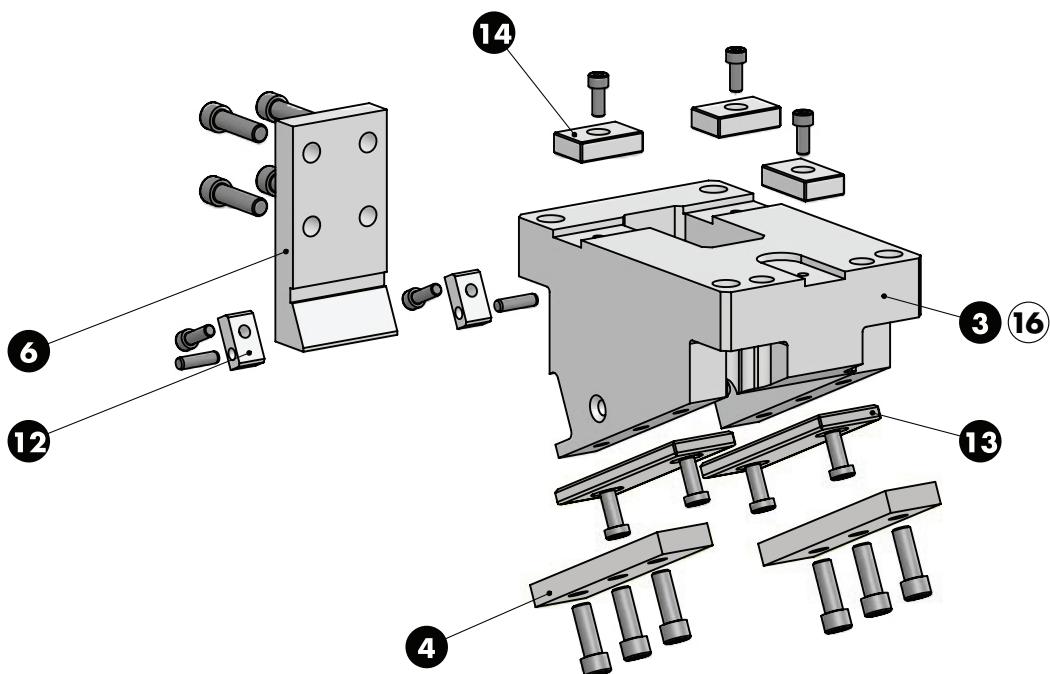
CAM DIAGRAM



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

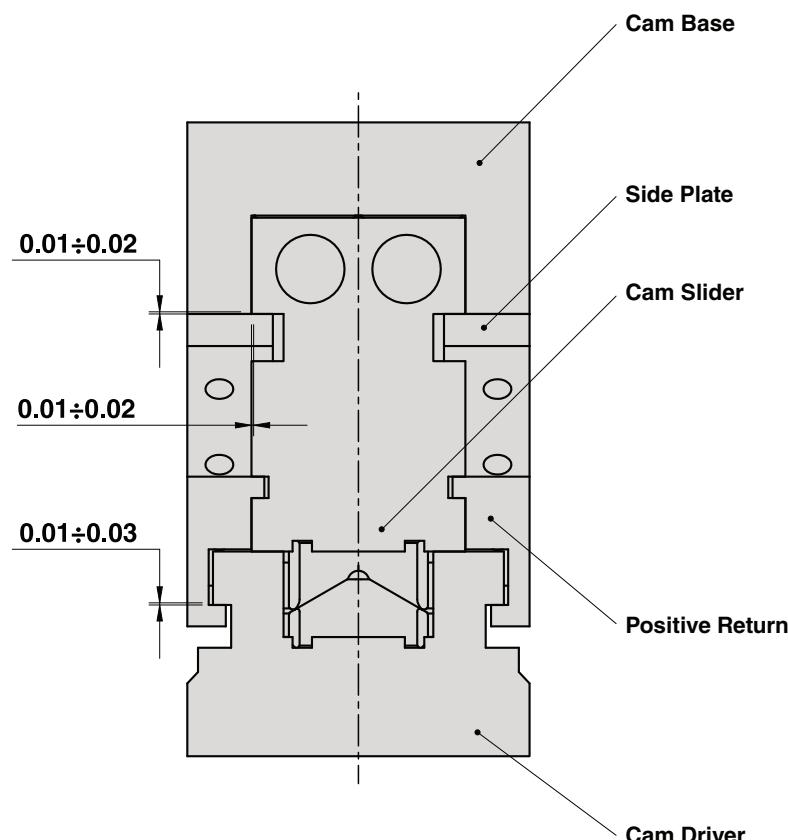


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

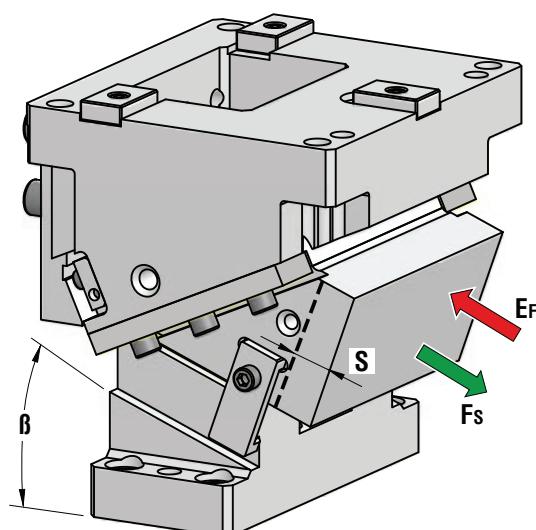


Cam Units CHK

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 β	Stroke (mm) S	Max Work Force with shoulder (kN) F _s	Extraction Force (kN)
				E _f
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



WEB



WEB



WEB



P.624



Art.

Work Angle = 10°

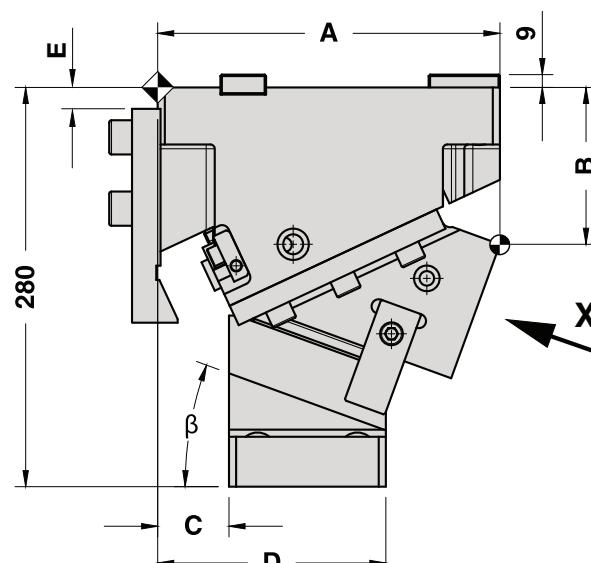
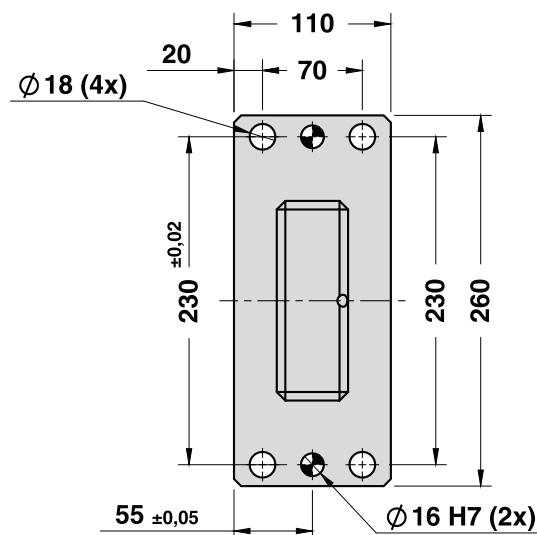
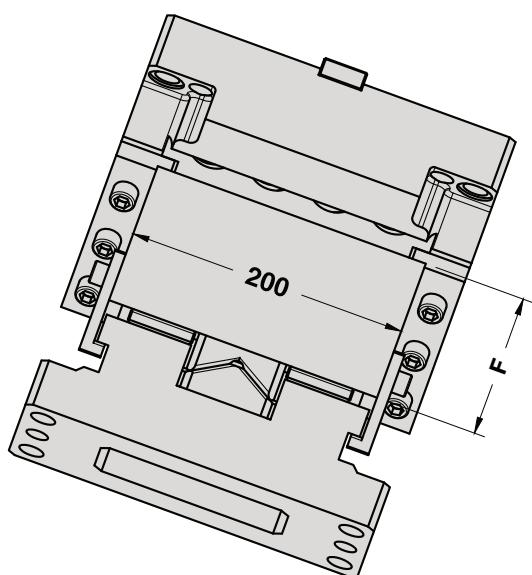
CHK200

10

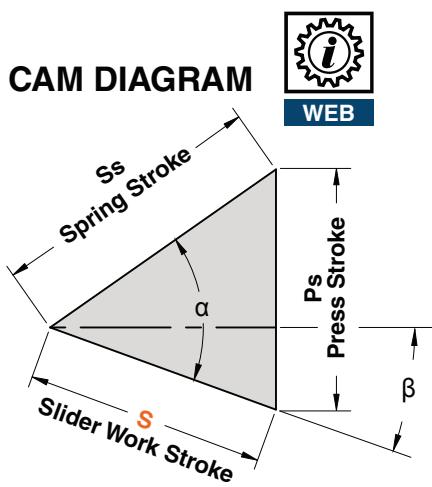
OMCR CODE	Work Angle β	Overall Dimensions (mm)							
		A	B	C	D	E	F	G	H
CHK200.00	0°	240	85	80	190	55	100	17	190
CHK200.10	10°	240	90	60	170	35	100	17	150
CHK200.20	20°	240	110	50	160	15	100	18	150
CHK200.30	30°	240	110	30	140	10	120	17	150
CHK200.40	40°	240	115	30	140	10	120	17	150
CHK200.50	50°	240	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

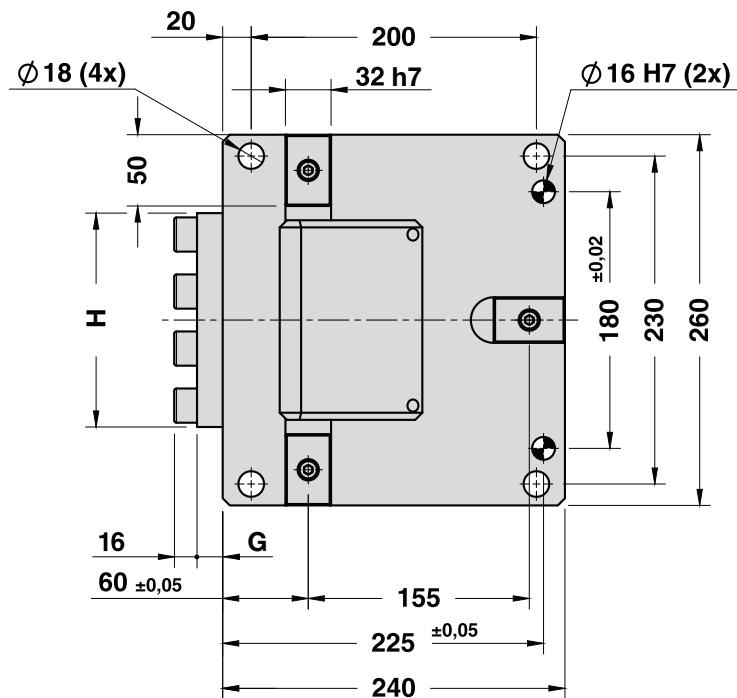
X VIEW



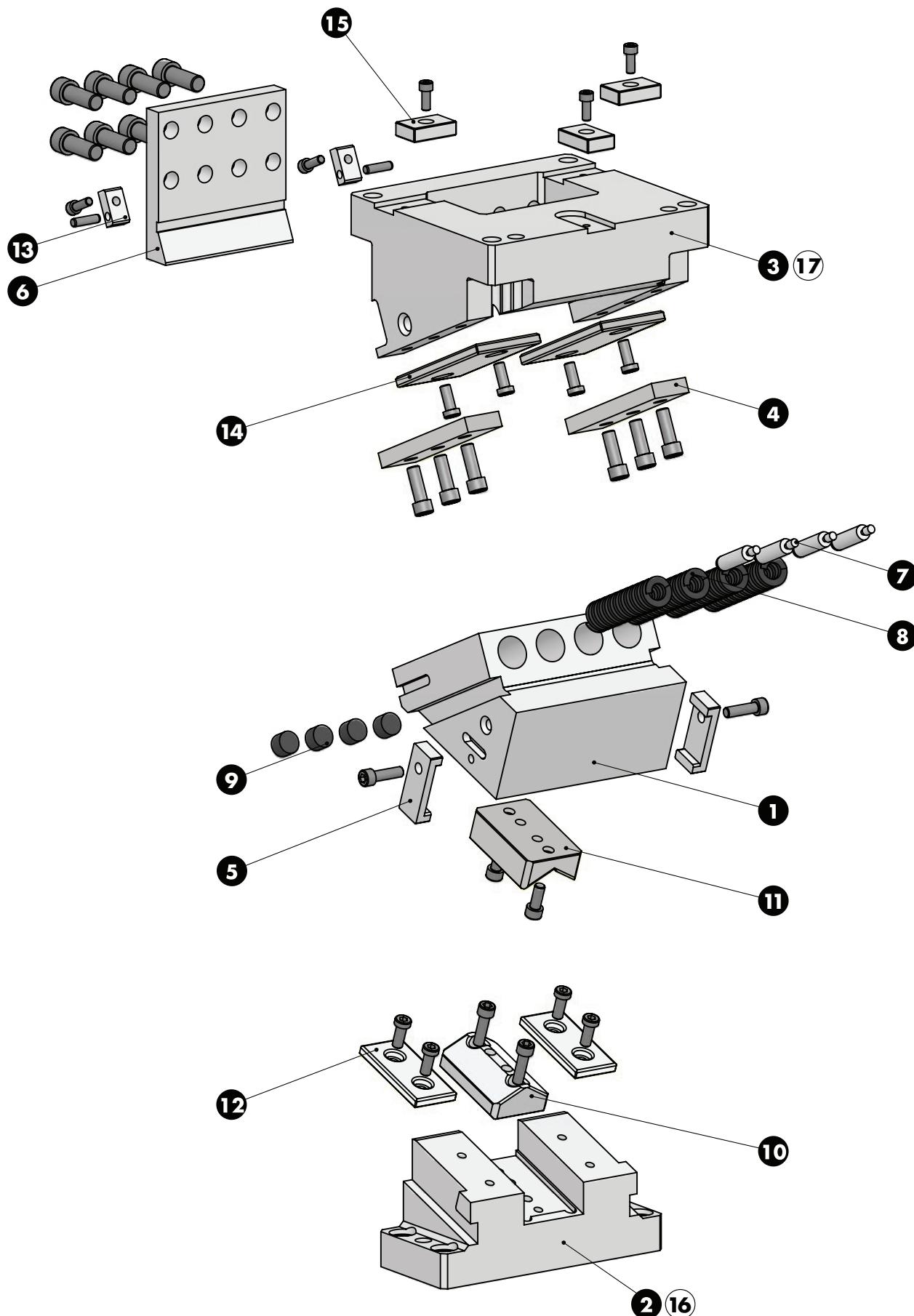
CAM DIAGRAM



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

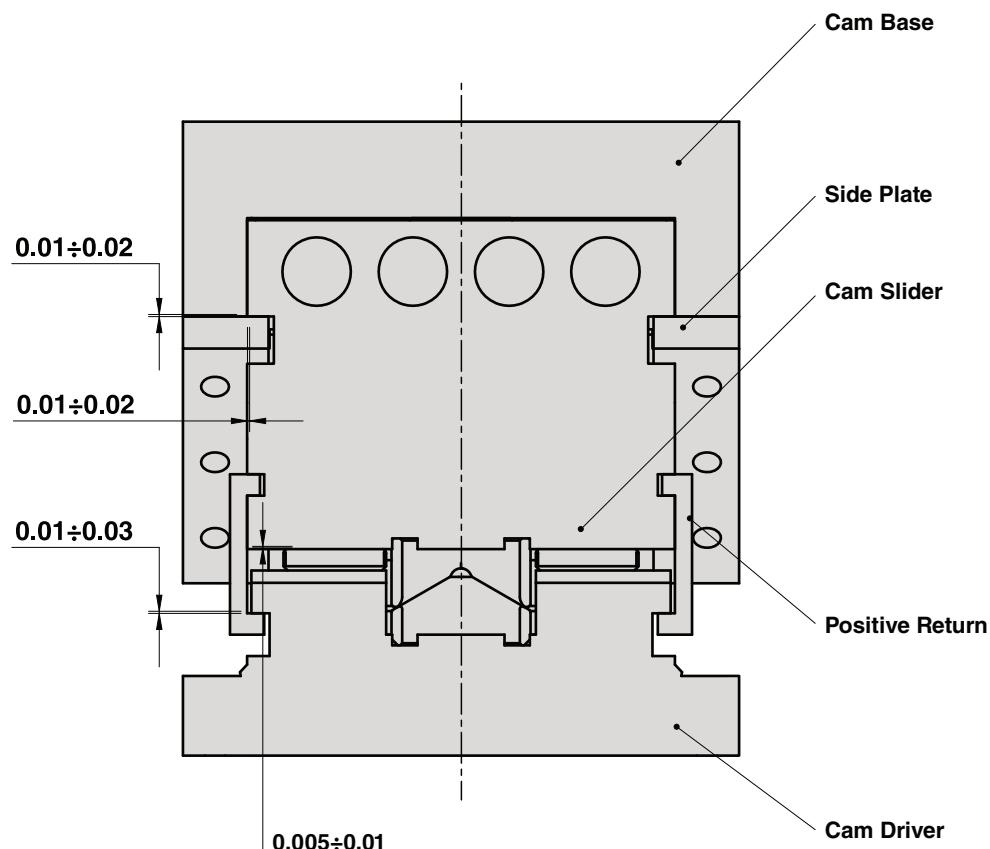


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CHK

PART LIST

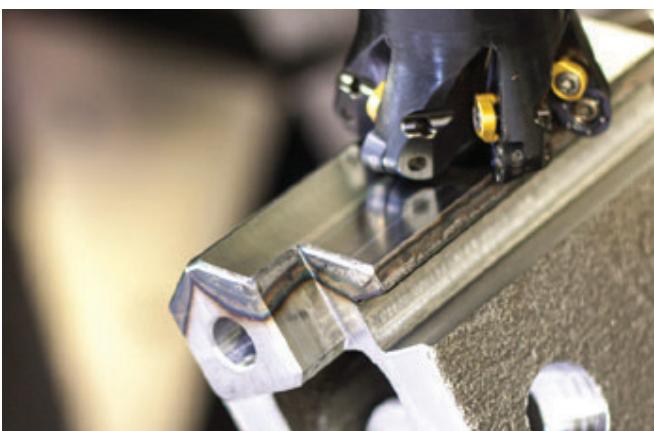
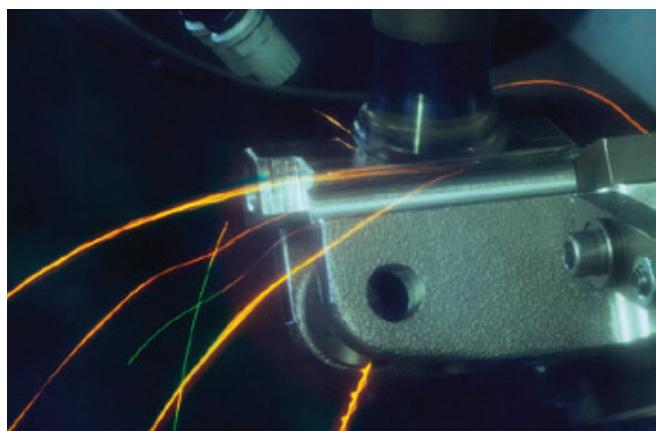
Particular number	Description	Material	Quantity
1	Cam Slider	GG-25 + Graphite	1
2	Cam Driver	GG-25 + Graphite	1
3	Cam Base	GG-25	1
4	Side Plate	CK45 + Graphite	2
5	Positive Return	CK45	2
6	Stopper Plate	St44	1
7	Spring Guide Pin	34CrMo4	4
8	Spring	-	4
9	Elastomer Cap	Elastomer 92SH	4
10	Male "V" Driver	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

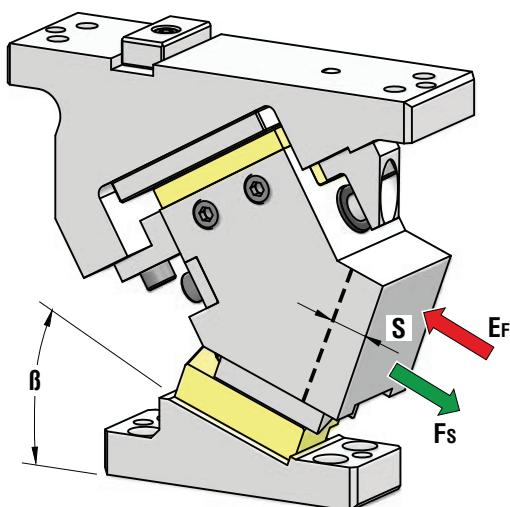
OMCR®
STANDARD DIE COMPONENTS

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)	Extraction Force (kN)			Page number
						F _s	Spring	Gas Spring	
CHR070	0°÷60° (5° steps)	70	225	70x75	90	0,25÷0,38	1,30÷1,74	774	
CHR080	0°÷60° (5° steps)	80	275	80x75	153	0,56÷0,87	1,48÷2,08	778	
CHR165	0°÷60° (5° steps)	165	300	165x120	340	1,16÷1,49	1,91÷2,46	782	
CHR200	0°÷60° (5° steps)	200	300	200x120	408	1,82÷2,35	3,75÷4,82	786	
CHR300	0°÷60° (5° steps)	300	375	300x160	521	3,89÷5,09	6,85÷9,40	790	
CHR400	0°÷60° (5° steps)	400	375	400x160	521	3,89÷5,09	6,85÷9,40	794	



Advanced machines and production systems

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				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

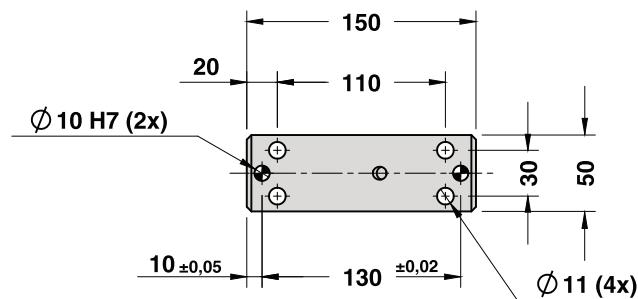
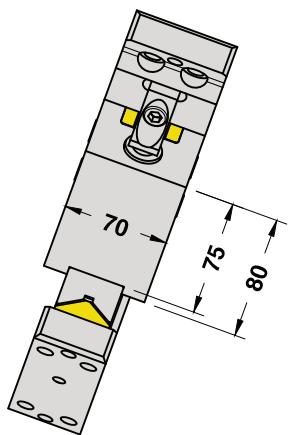
*Return Type: G = Gas Spring / S = Spring

ORDER EXAMPLE	Art.	Work Angle = 5°	Return Type*
	CHR070	05	G

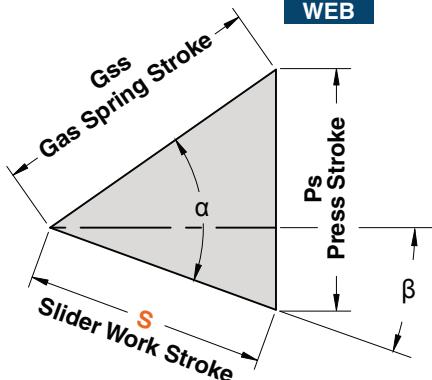
OMCR CODE	Work Angle β	Overall Dimensions (mm)				
		A	B	C	D	E
CHR070.00	0°	237,37	85	102	252	81,37
CHR070.05	5°	234,87	86,28	92	242	81,53
CHR070.10	10°	232,82	88,76	81	231	80,24
CHR070.15	15°	217,54	96,59	57	207	66,67
CHR070.20	20°	224,52	99,67	52	202	75,62
CHR070.25	25°	223,46	105,45	42	192	75,76
CHR070.30	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

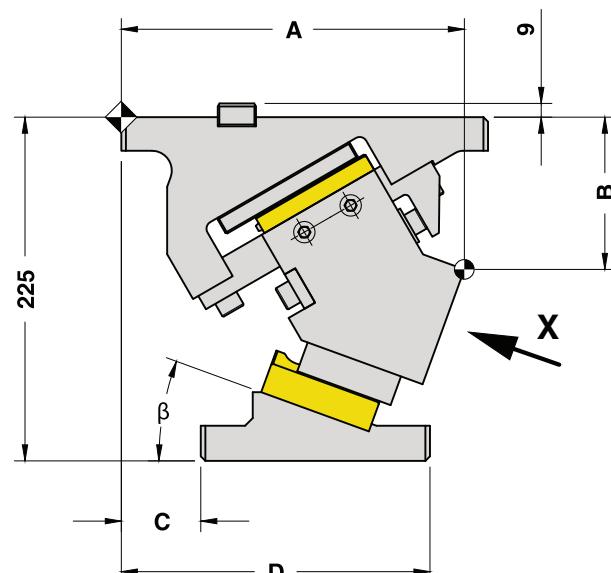
X VIEW



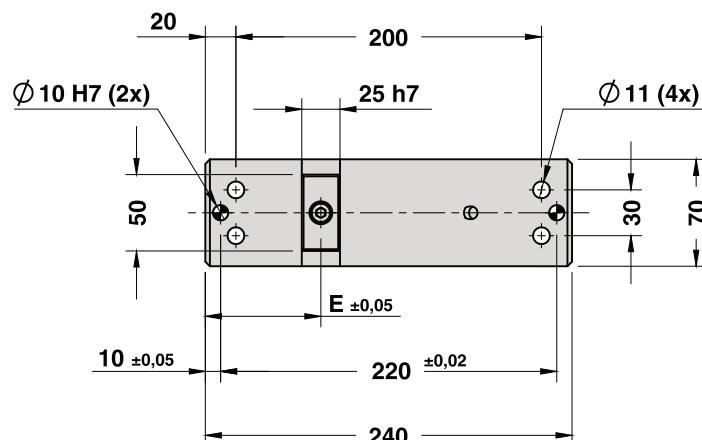
CAM DIAGRAM



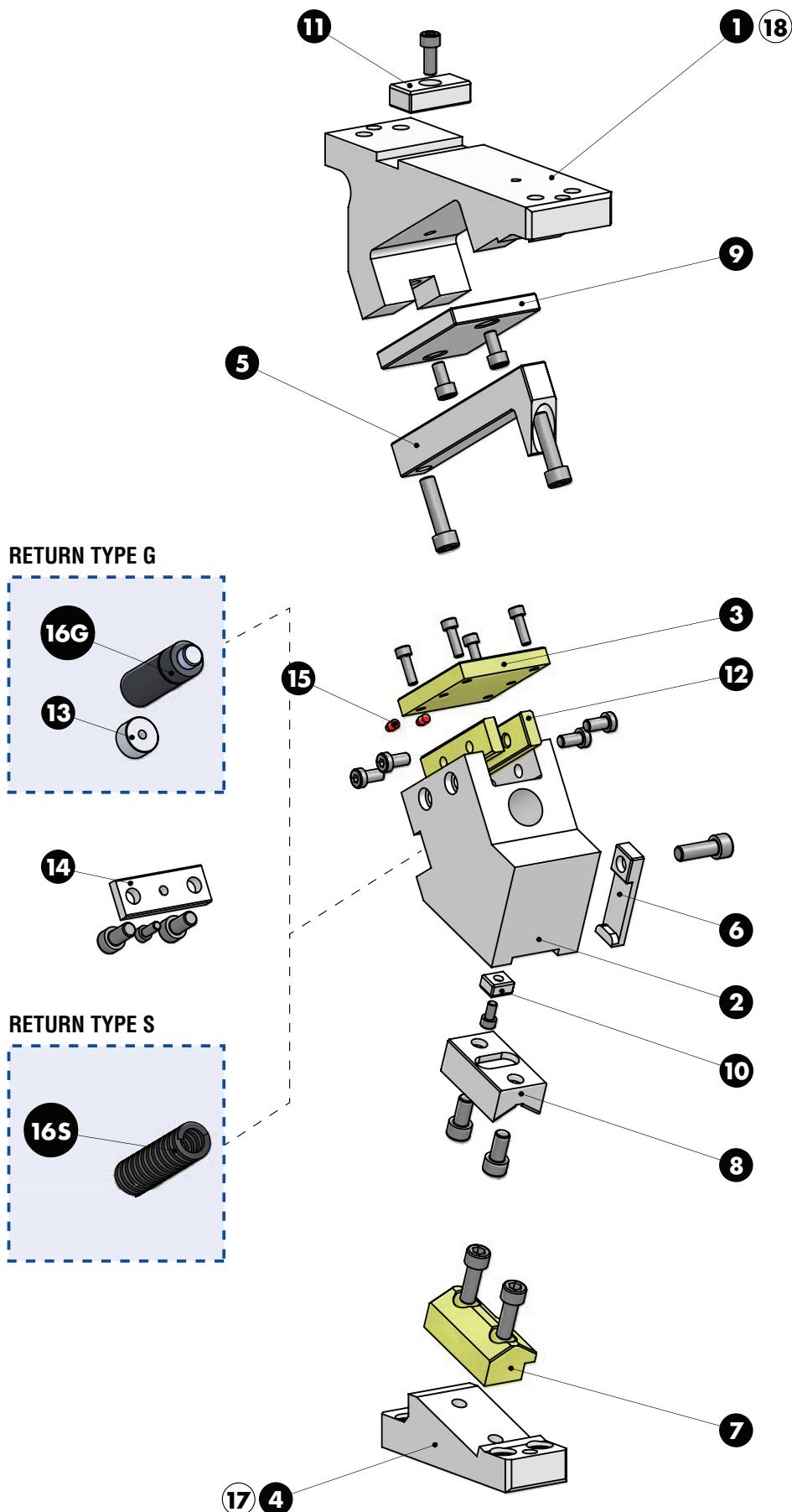
Cam Units CHR



Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	P_s	G_{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°	43,59	35,70	25
60°	60°	50,00	43,30	25

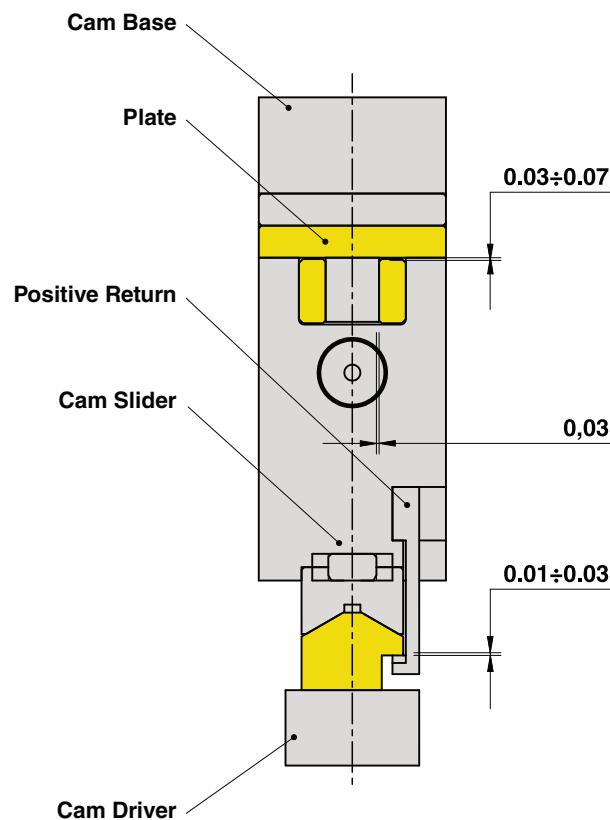


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

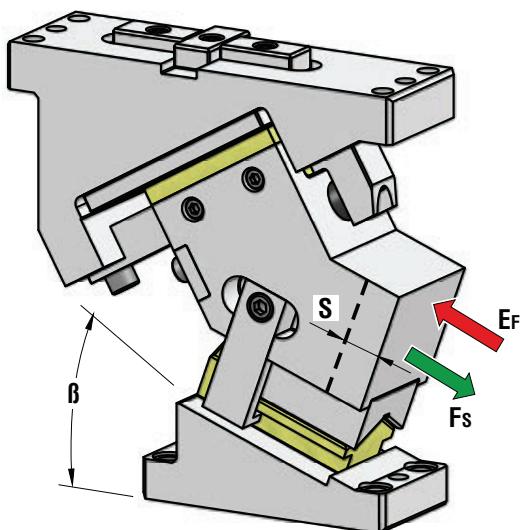
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



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



WEB



WEB



WEB



P.624

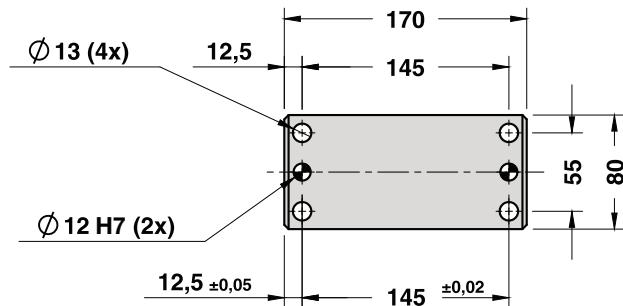
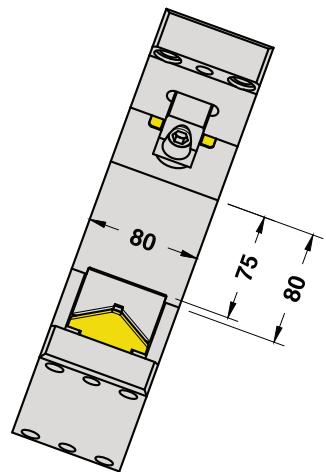
OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)	
				S	F _s
CHR080.00	0°	32,14	153	0,87	2,08
CHR080.05	5°	35,49	153	0,87	2,08
CHR080.10	10°	38,89	153	0,87	2,08
CHR080.15	15°	42,40	153	0,87	2,08
CHR080.20	20°	46,08	153	0,87	2,08
CHR080.25	25°	50	153	0,87	2,08
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

Art.	Work Angle = 5°	Return Type*
CHR080	05	G

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
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

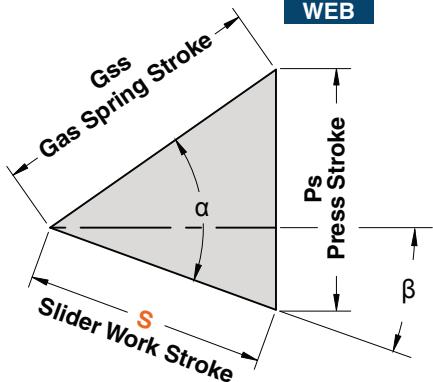
X VIEW



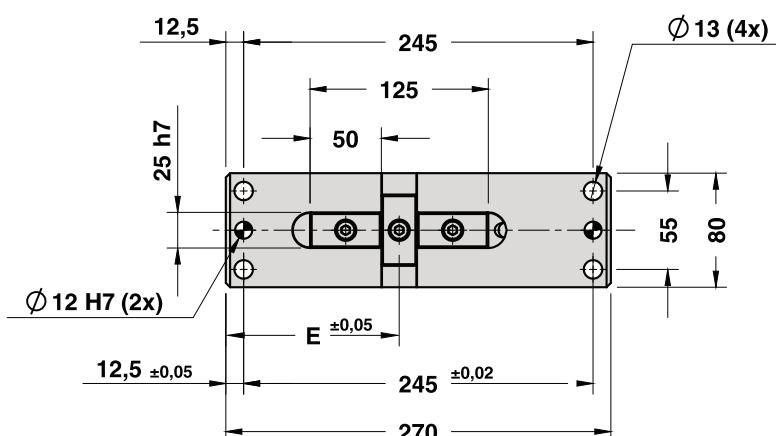
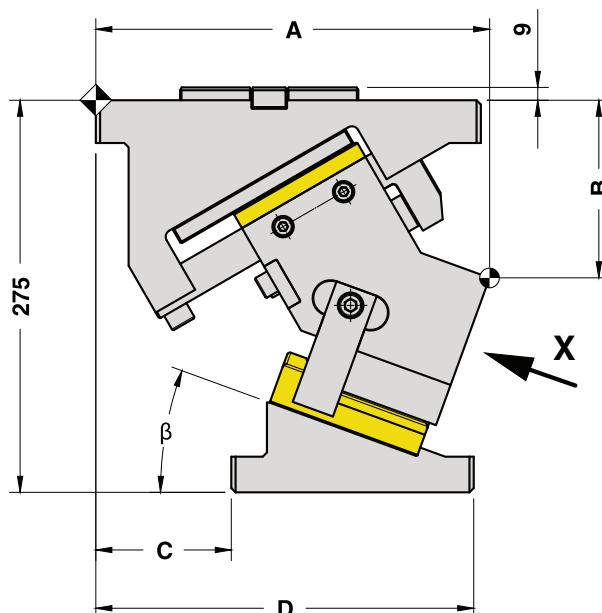
CAM DIAGRAM



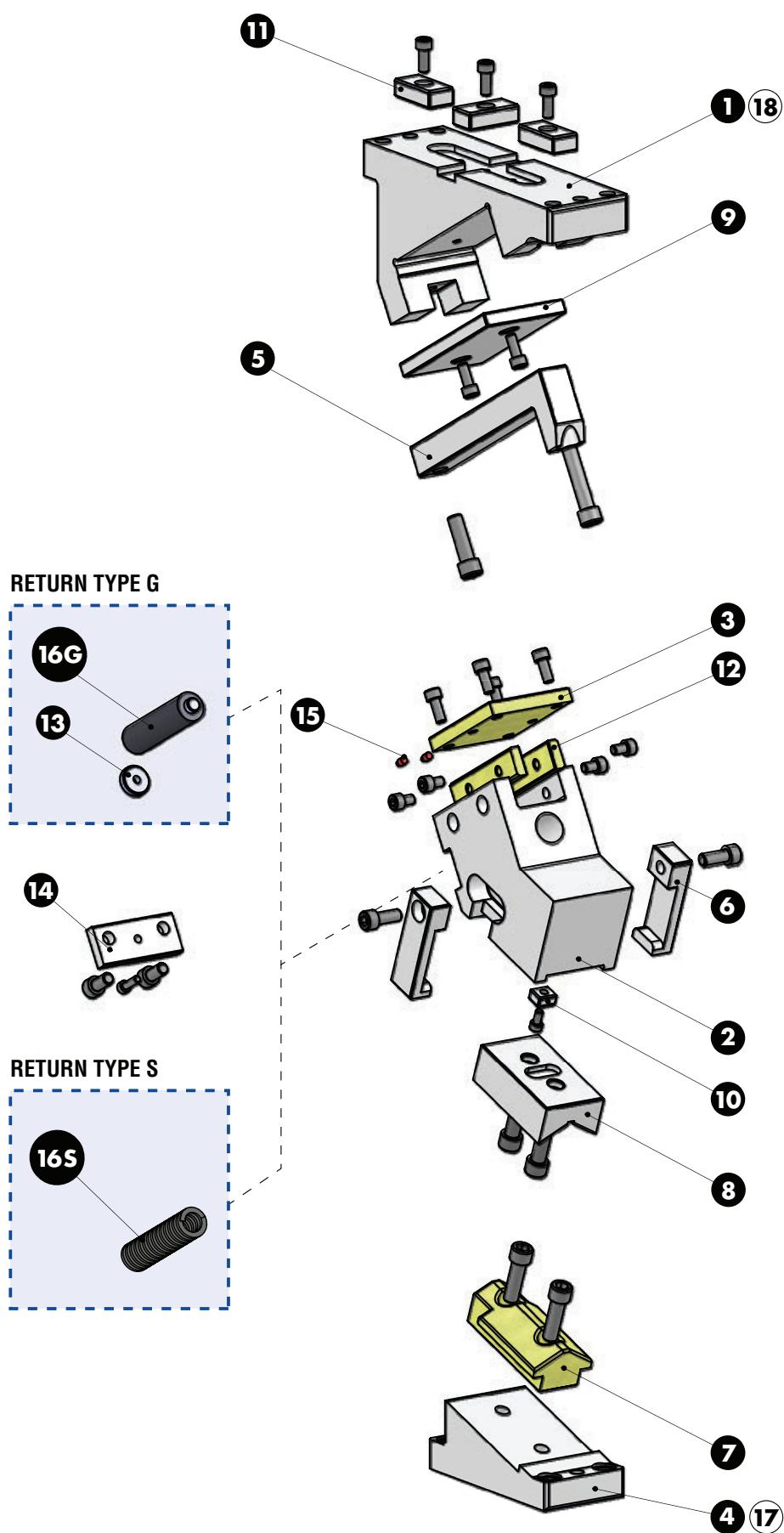
WEB



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

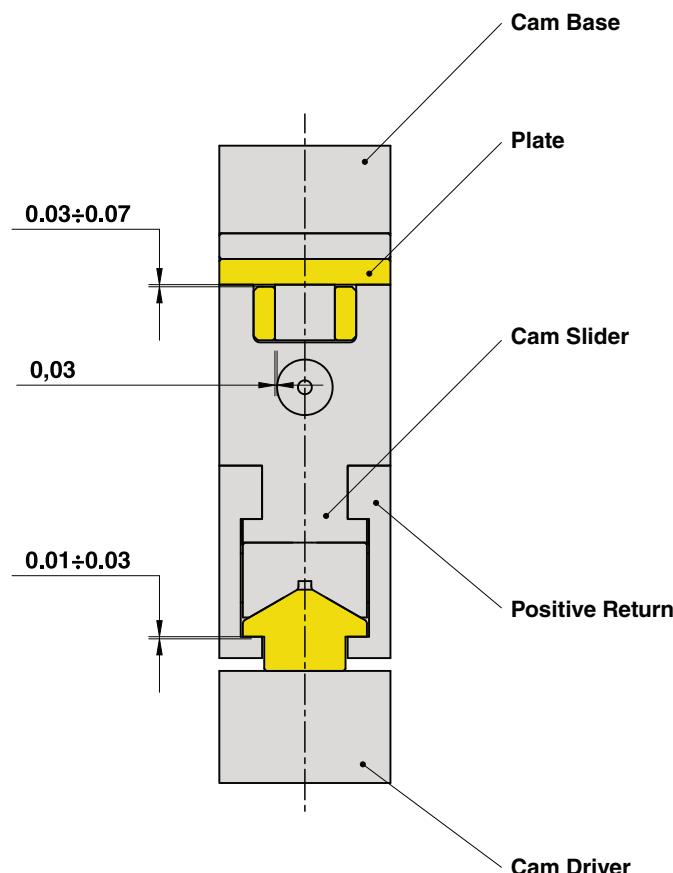


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

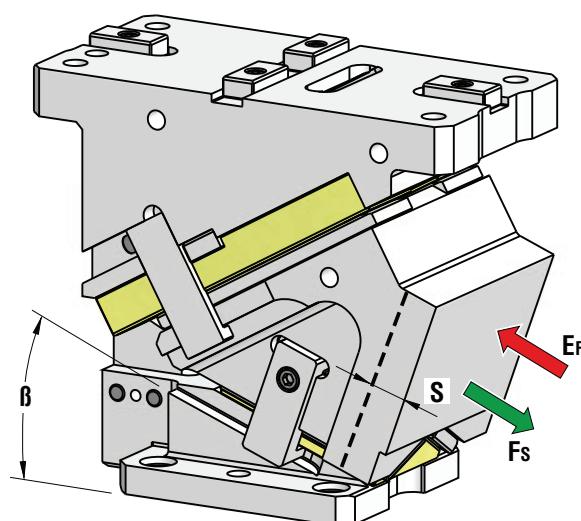
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)			
				S	F _s	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

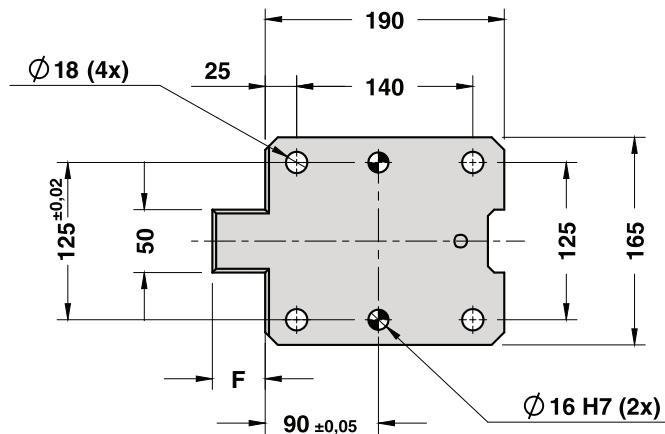
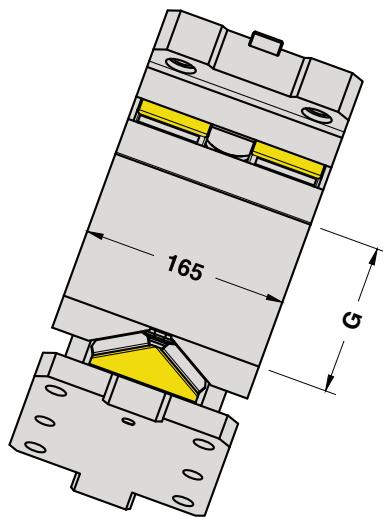
*Return Type: G = Gas Spring / S = Spring

ORDER EXAMPLE	Art.	Work Angle = 5°	Return Type*	OPTION CODE	
				N	N16
	CHR165	05	G		

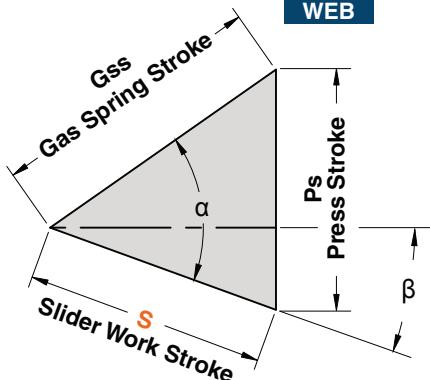
OMCR CODE	Work Angle β	Overall Dimensions (mm)						
		A	B	C	D	E	F	G
CHR165.00	0°	335,84	96,98	128	318	154,84	55	120
CHR165.05	5°	335,25	100,91	113	303	155,32	55	120
CHR165.10	10°	337,27	111,09	101	291	159,30	50	120
CHR165.15	15°	329,78	122,46	80	270	156,45	45	120
CHR165.20	20°	332,68	129,99	70	260	162,11	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

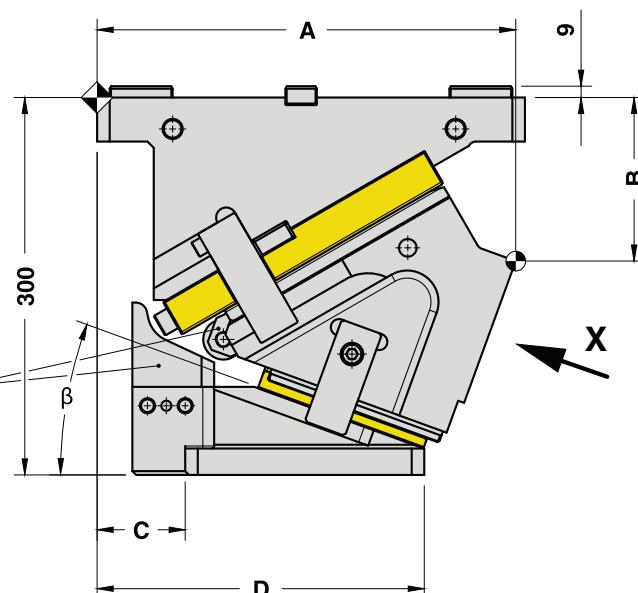
X VIEW



CAM DIAGRAM

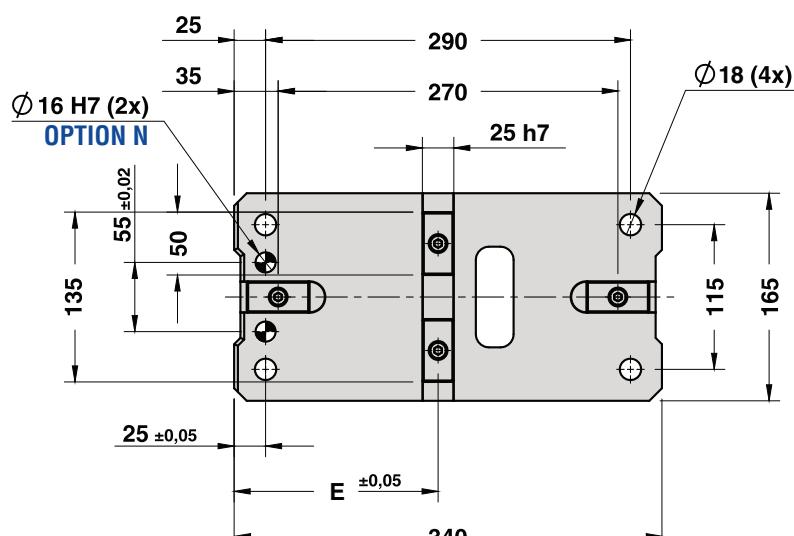


Accelerator available
for work angles
from 0° to 25°

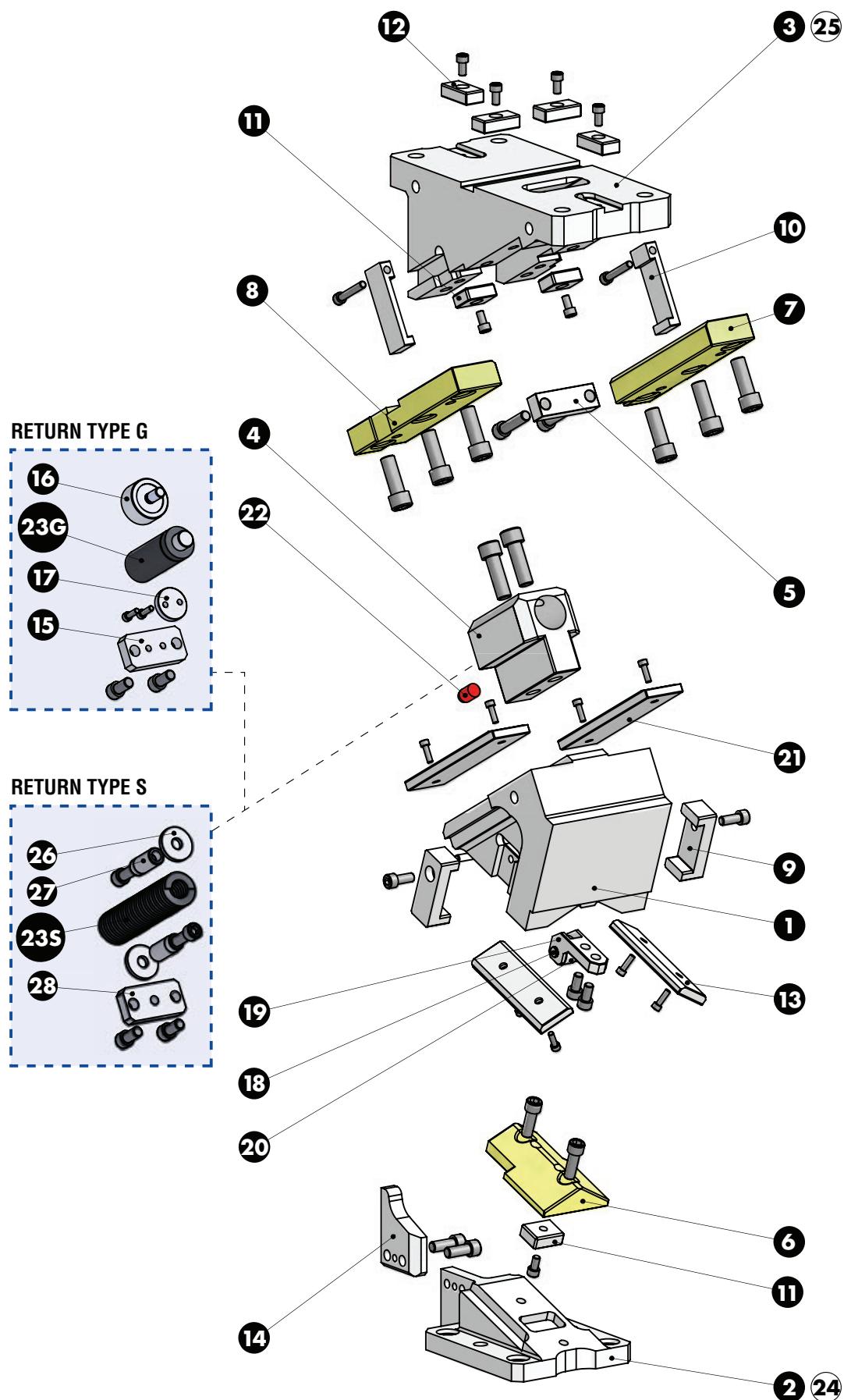


Cam Units CHR

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

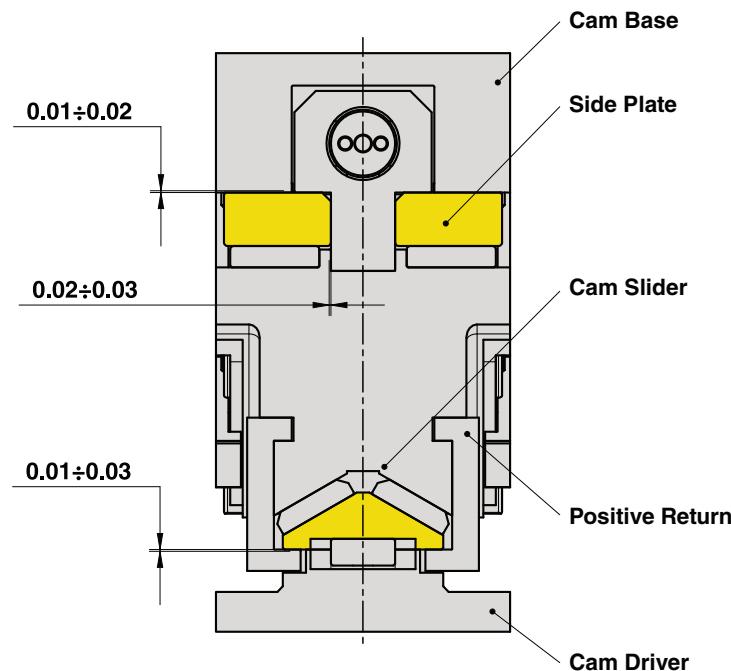


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

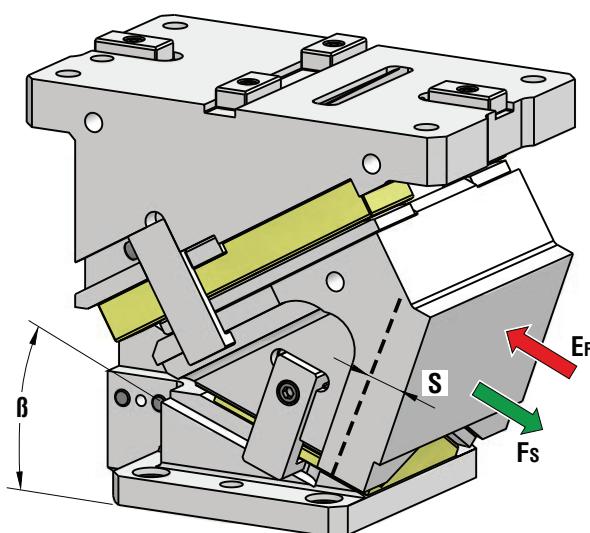
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				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

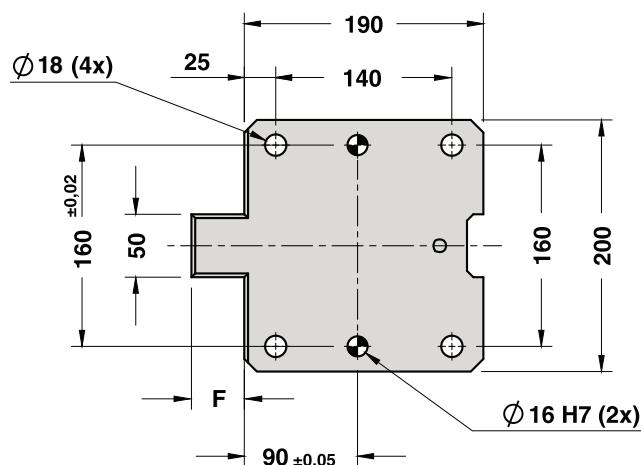
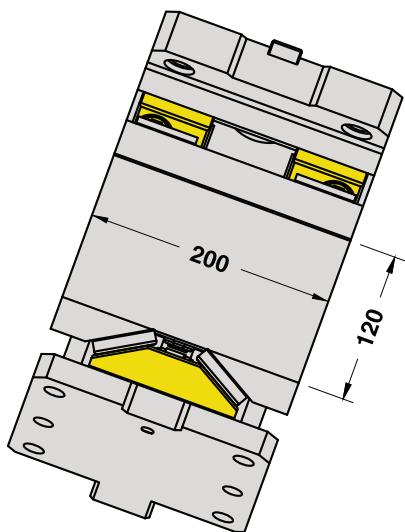
*Return Type: G = Gas Spring / S = Spring

OPTION CODE			
Art.	Work Angle = 5°	Return Type*	N
CHR200	05	G	N16

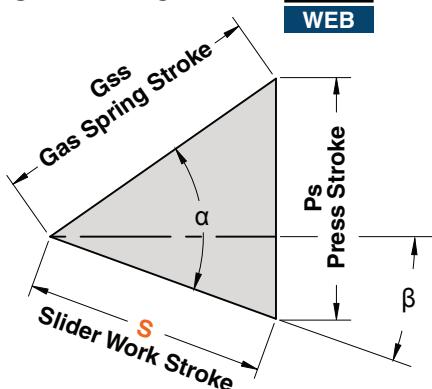
OMCR CODE	Work Angle β	Overall Dimensions (mm)					
		A	B	C	D	E	F
CHR200.00	0°	335,84	96,98	128	318	154,84	55
CHR200.05	5°	335,25	100,91	113	303	155,32	55
CHR200.10	10°	337,27	111,09	101	291	159,30	50
CHR200.15	15°	329,78	122,46	80	270	156,45	45
CHR200.20	20°	332,68	129,99	70	260	162,11	42
CHR200.25	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

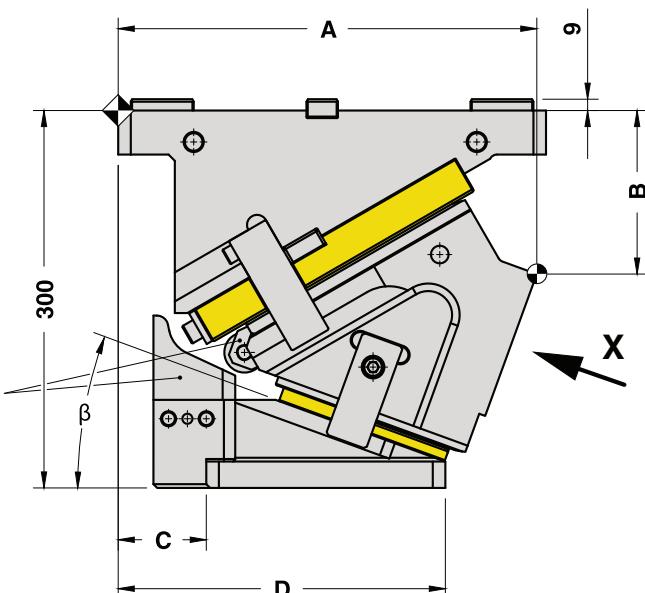
X VIEW



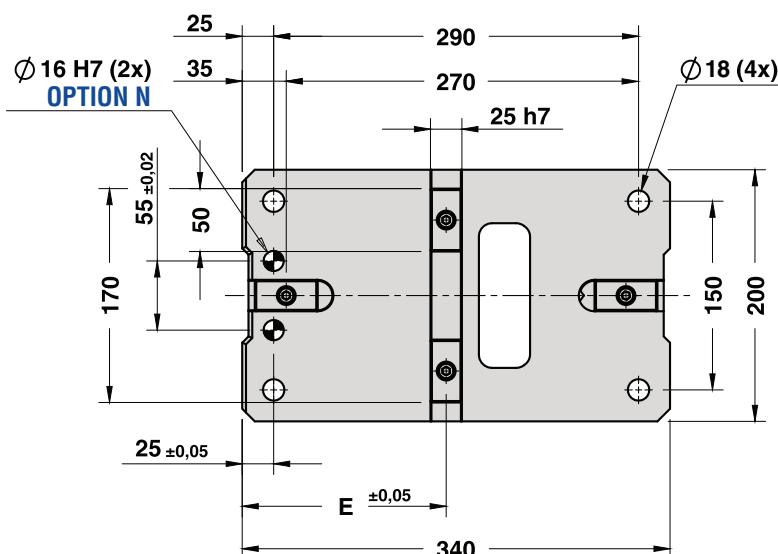
CAM DIAGRAM



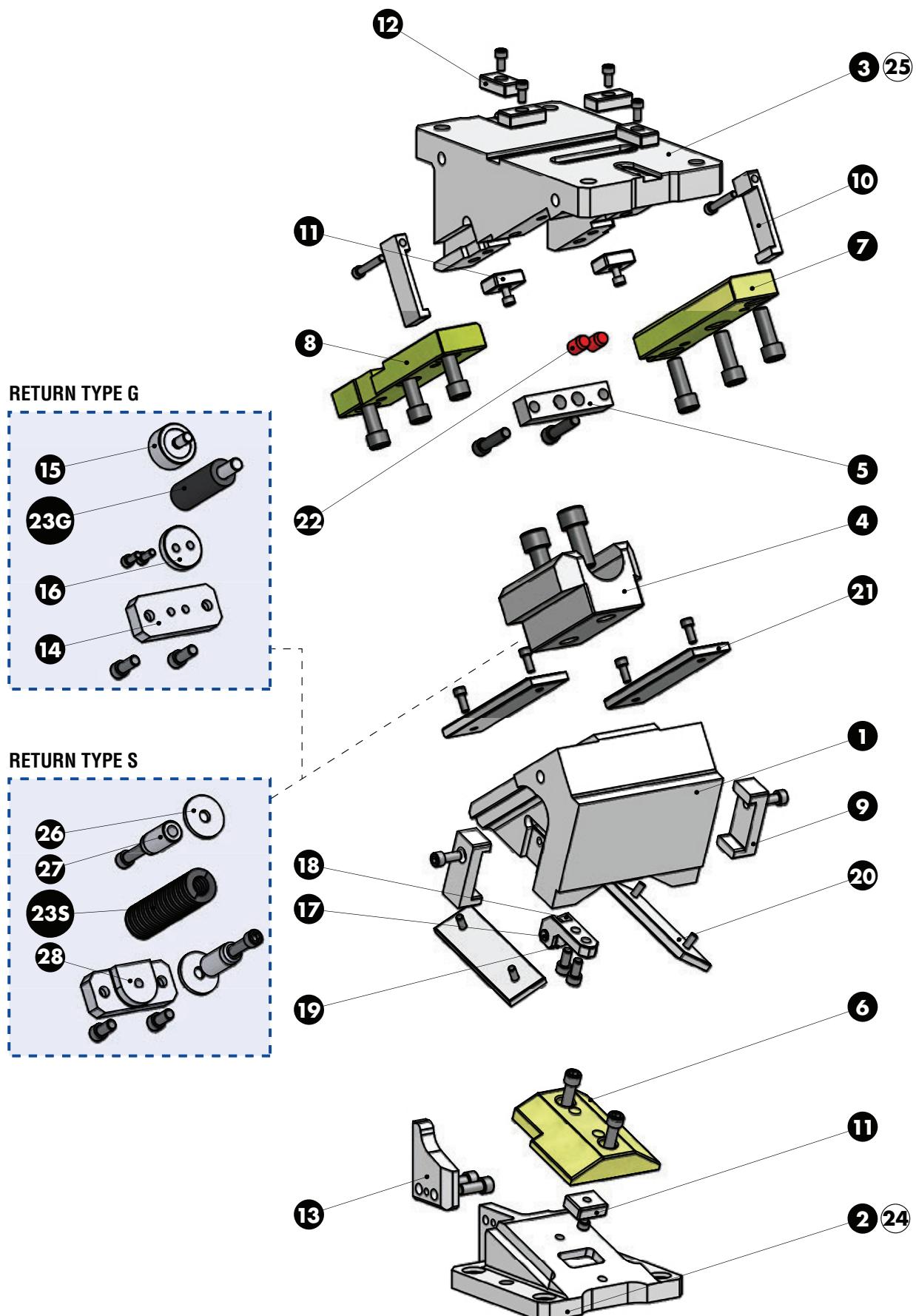
Accelerator available
for work angles
from 0° to 25°



Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	50°	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

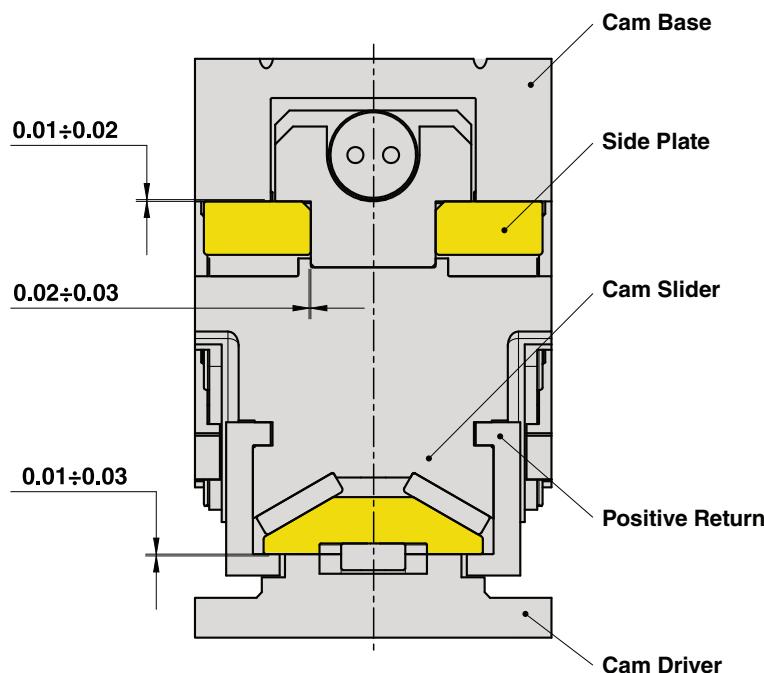


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

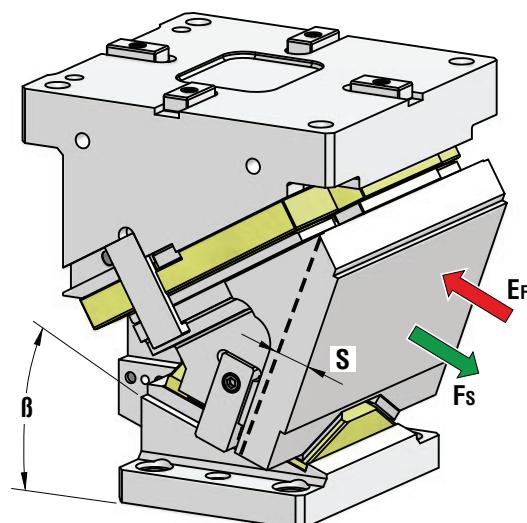
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)			
				S	F _s	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
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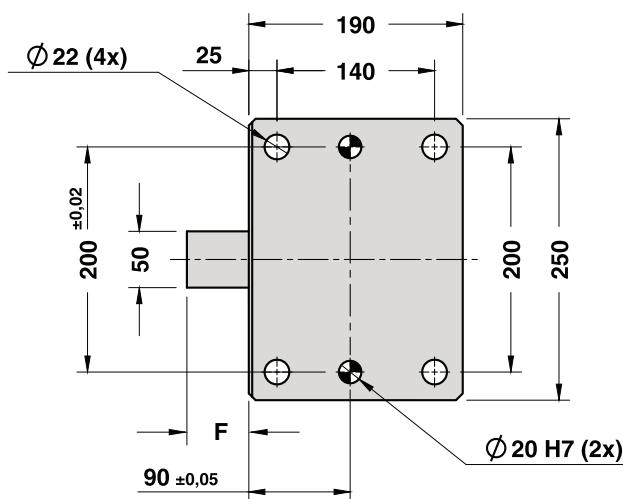
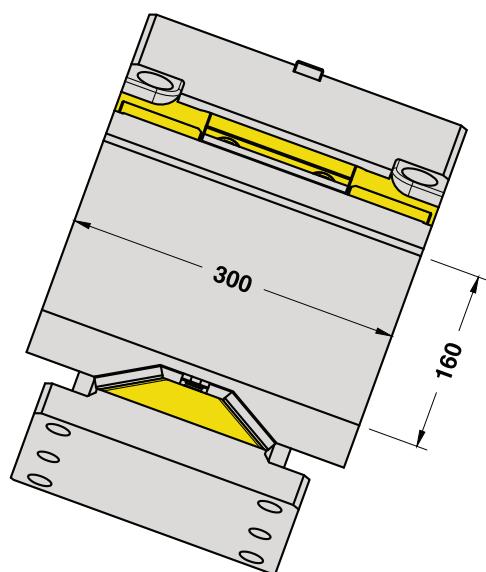
*Return Type: G = Gas Spring / S = Spring

OPTION CODE			
Art.	Work Angle = 5°	Return Type*	N
CHR300	05	G	N16

OMCR CODE	Work Angle β	Overall Dimensions (mm)					
		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

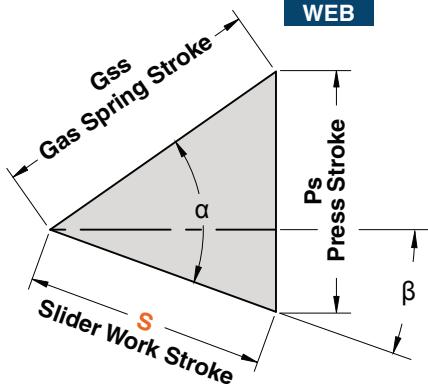
X VIEW



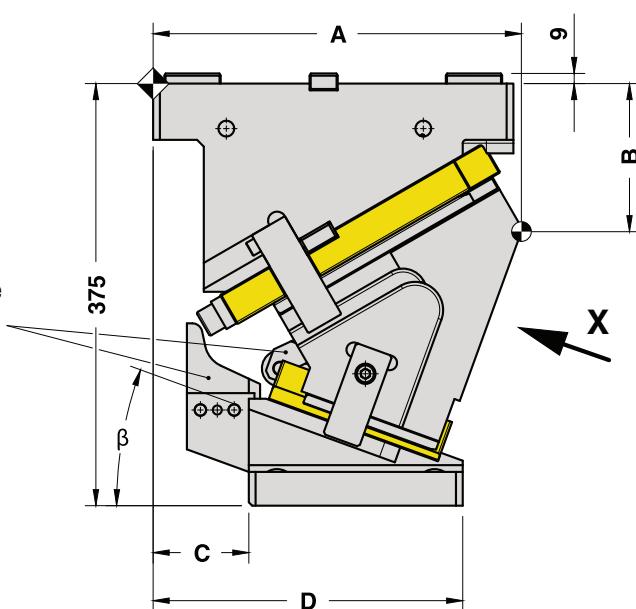
CAM DIAGRAM



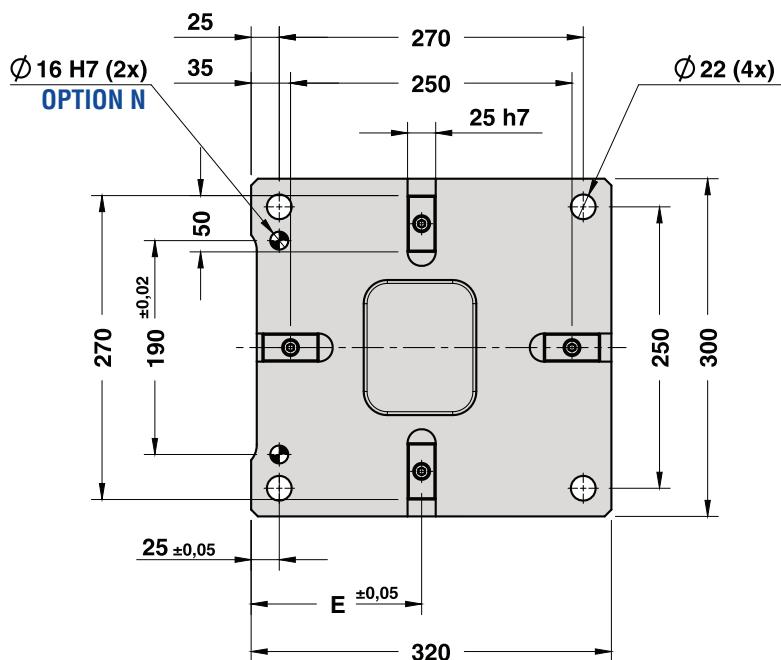
WEB



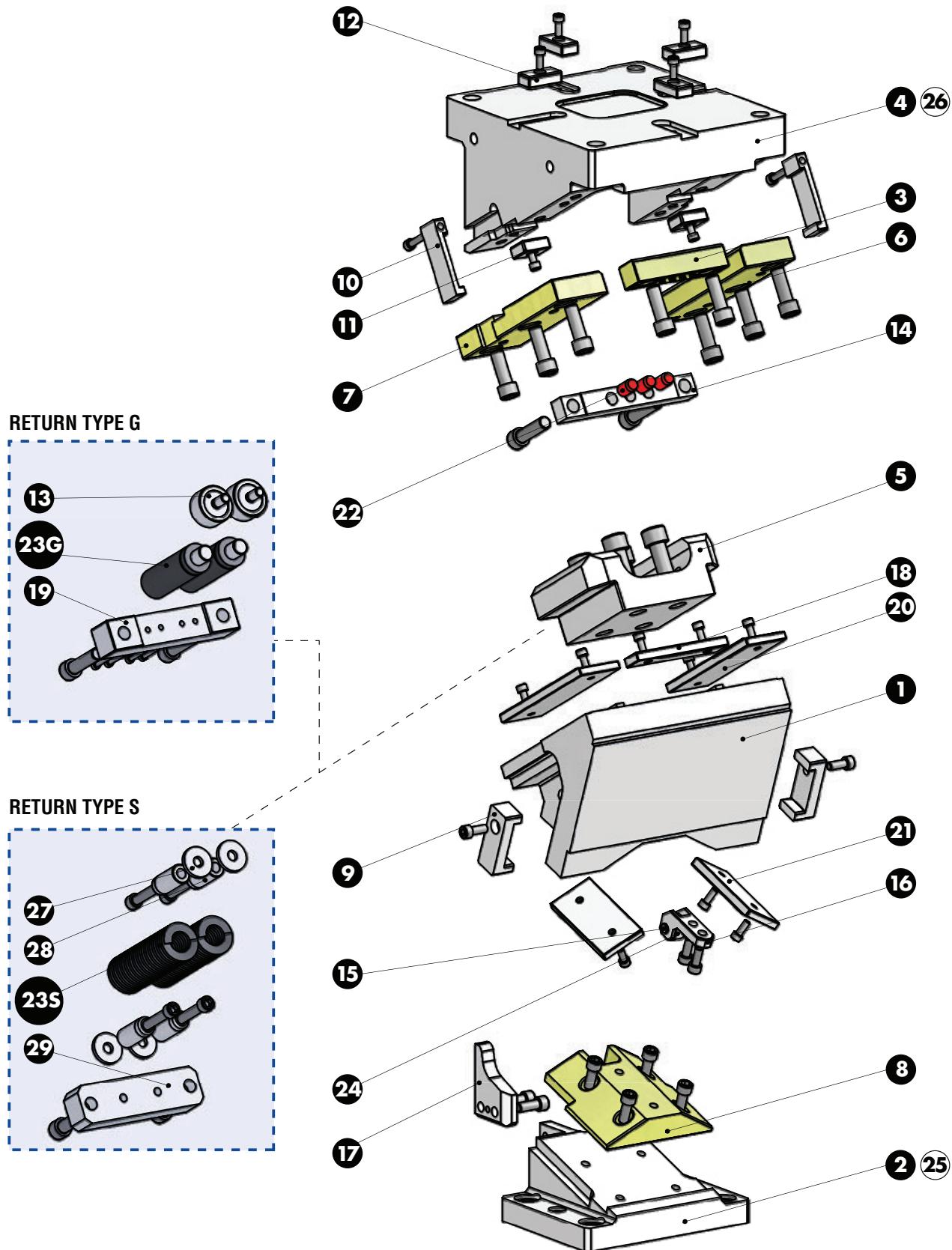
Accelerator available
for work angles
from 0° to 25°



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

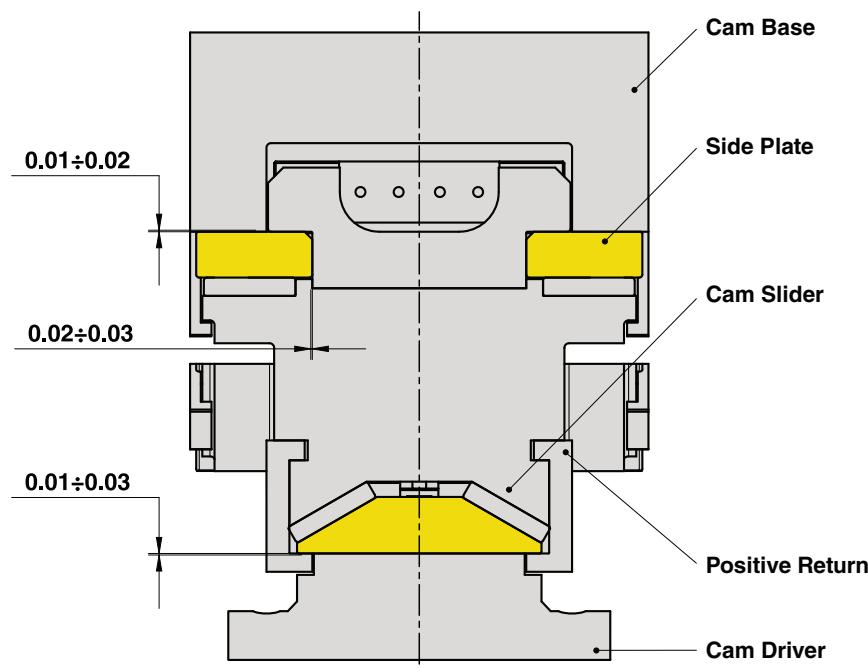


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

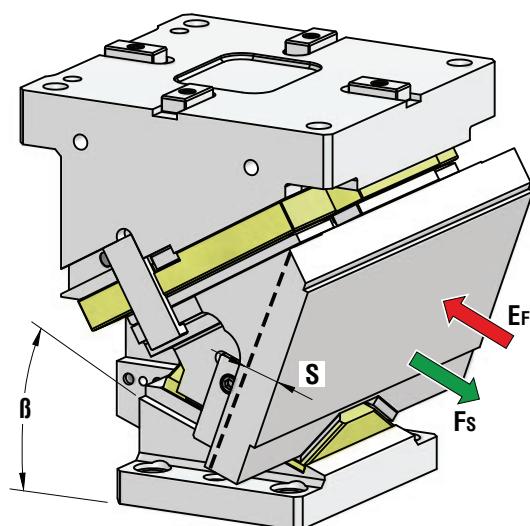
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				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

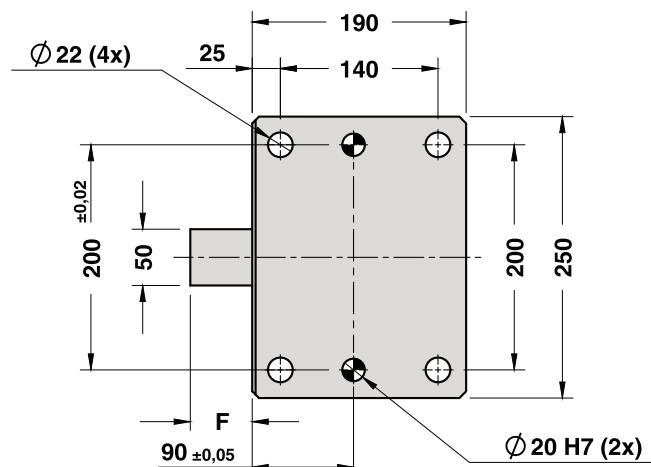
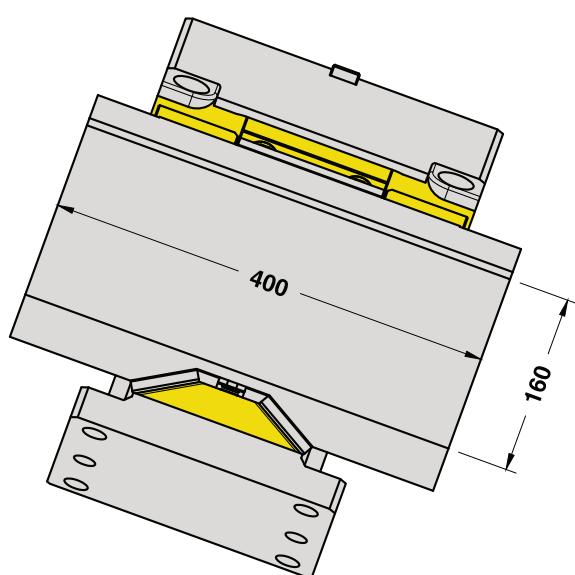
OPTION CODE

Art.	Work Angle = 5°	Return Type*	N
CHR400	05	G	N16

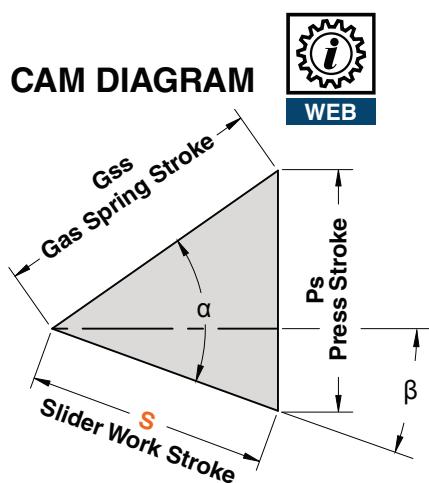
OMCR CODE	Work Angle β	Overall Dimensions (mm)					
		A	B	C	D	E	F
CHR400.00	0°	313	98	138	328	119,50	55
CHR400.05	5°	317,15	104,18	125	315	127,13	55
CHR400.10	10°	324,13	111,86	115	305	138,04	55
CHR400.15	15°	325,82	121,01	100	290	144,41	55
CHR400.20	20°	327,08	131,59	85	275	151,45	55
CHR400.25	25°	334,71	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

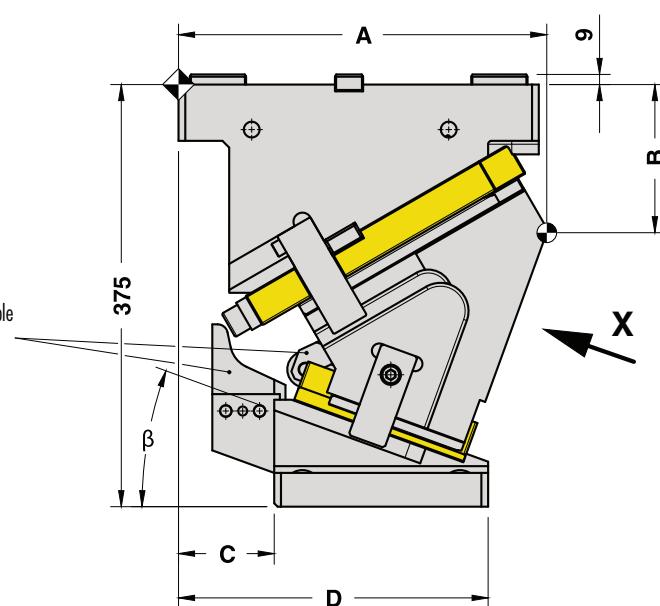
X VIEW



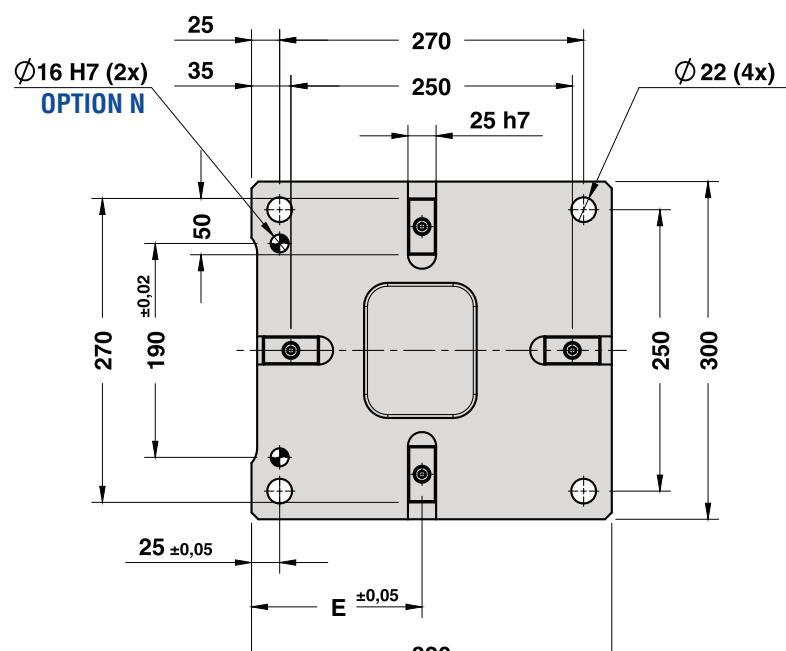
CAM DIAGRAM



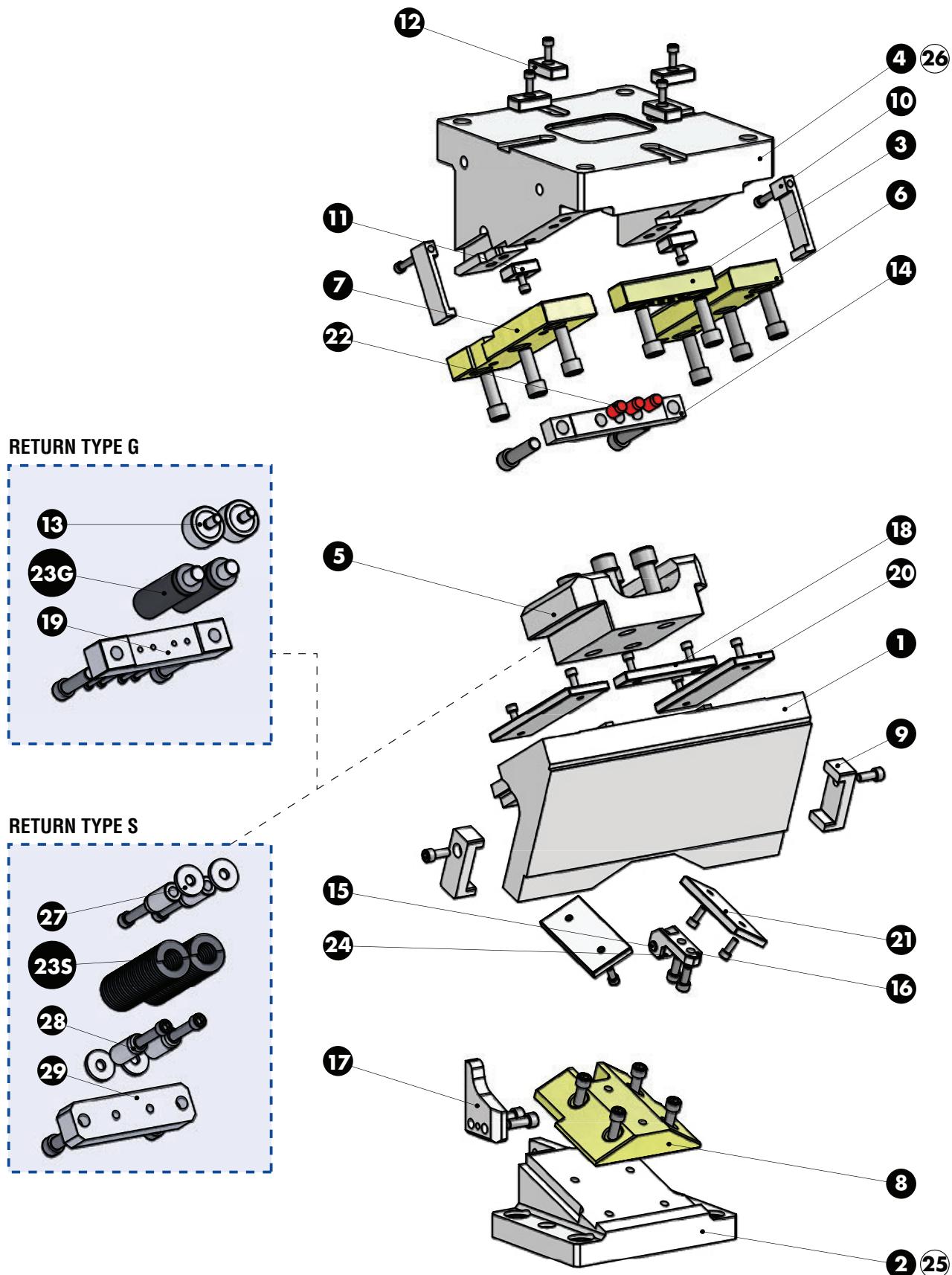
Accelerator available
for work angles
from 0° to 25°



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

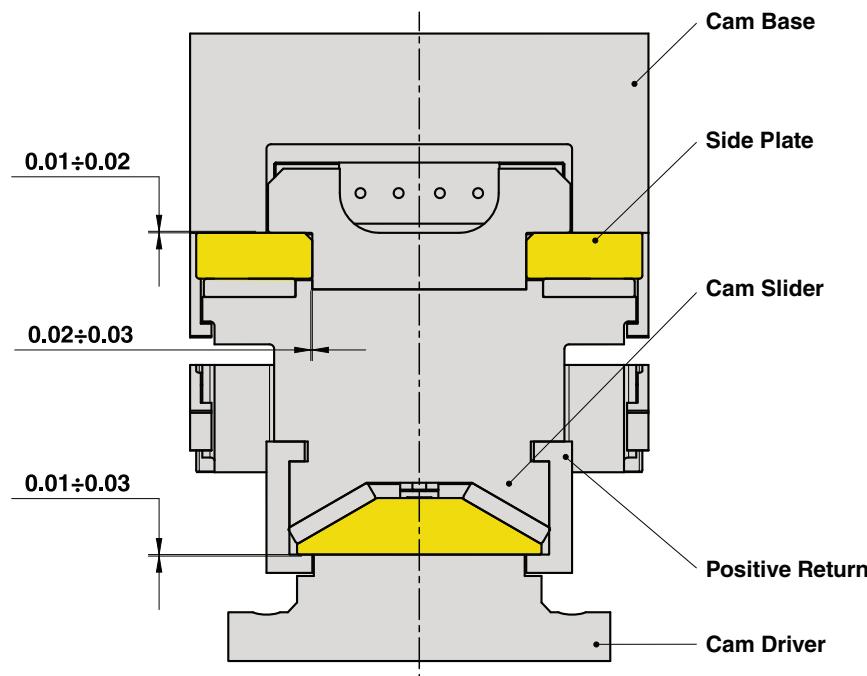


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



PART LIST

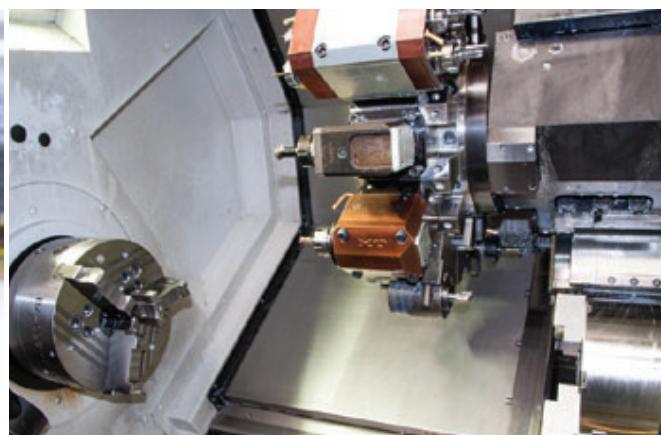
Particular number	Description	Material	Quantity
1	Cam Slider	GG-25	1
2	Cam Driver	GG-25	1
3	Plate	CuZn25Al5 + Graphite - HB > 190	1
4	Cam Base	GG-25	1
5	Spring Guide Block	CK45 + Graphite	1
6	Side Plate R	CuZn25Al5 + Graphite - HB > 190	1
7	Side Plate L	CuZn25Al5 + Graphite - HB > 190	1
8	Male "V" Driver	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



Cam Units CLC Schieber CLC Unità a Camme CLC

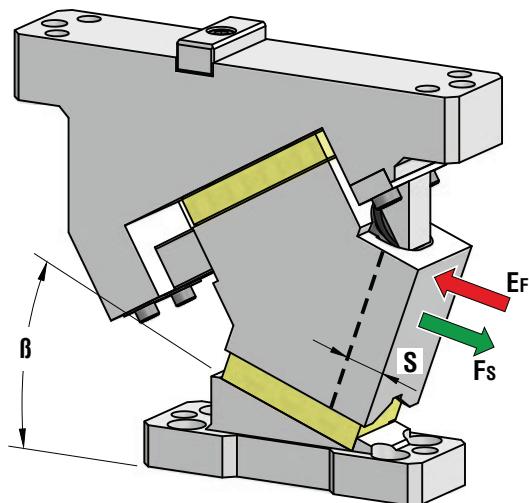
OMCR®
STANDARD DIE COMPONENTS

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	800
CLC065	0÷70°	65	180 (0÷45°) 190 (50÷55°) 210 (60÷70°)	65x65	42	0,44÷0,94	804
CLC080	0÷70°	80	270	80x86	83	0,58÷1,20	808
CLC150	0÷70°	150	270	150x85	140	1,66÷4,18	812



Highly skilled workers

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



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P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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

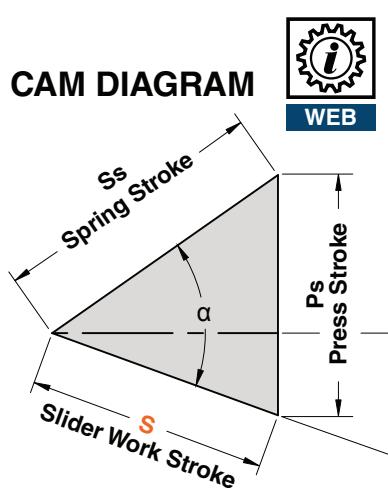
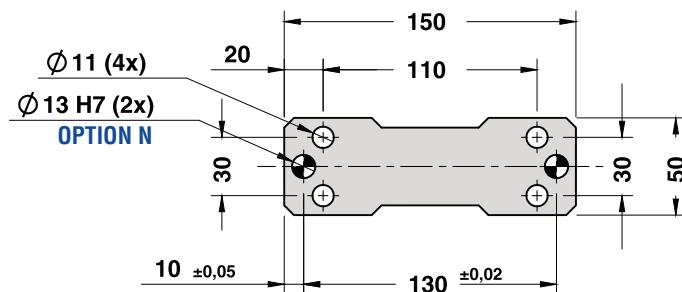
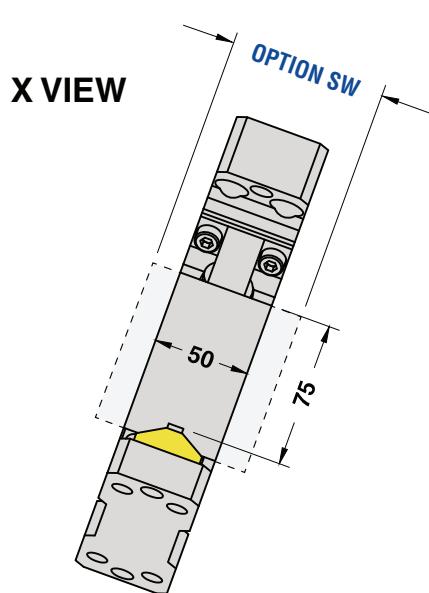
SL	1 ÷ 60 (1mm steps)
SW	65 mm
N	Ø 12H7

OPTION CODE

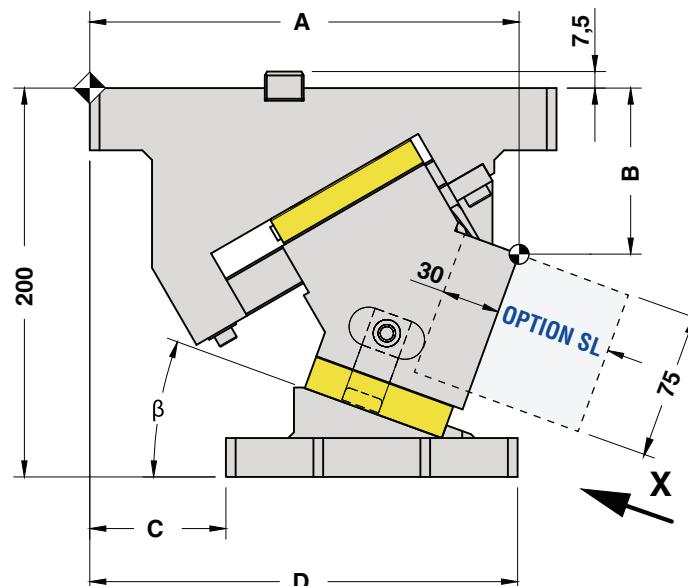
Art.	Work Angle = 5°	SL	SW	N
CLC050	05	SL55	SW65	N12

OMCR CODE	Work Angle	Overall Dimensions (mm)			
		β	A	B	C
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

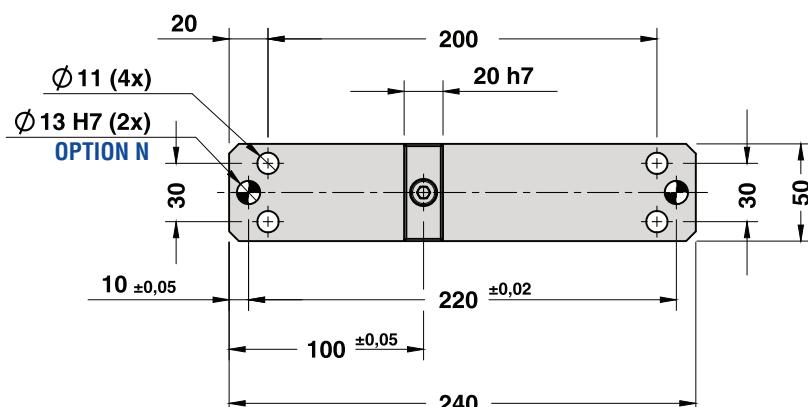
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



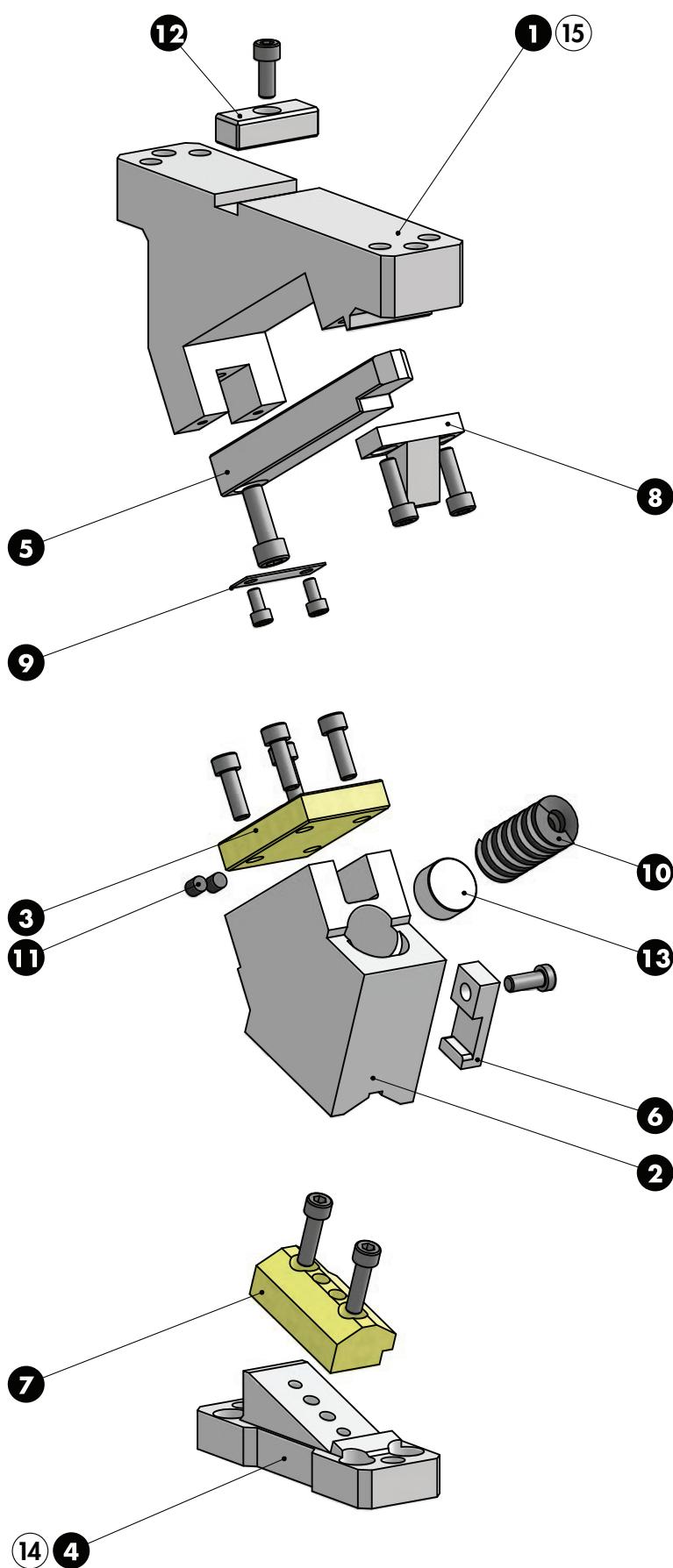
Cam Units CLC



Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Spring Stroke (mm)
β	α	S	P_s	S_s
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

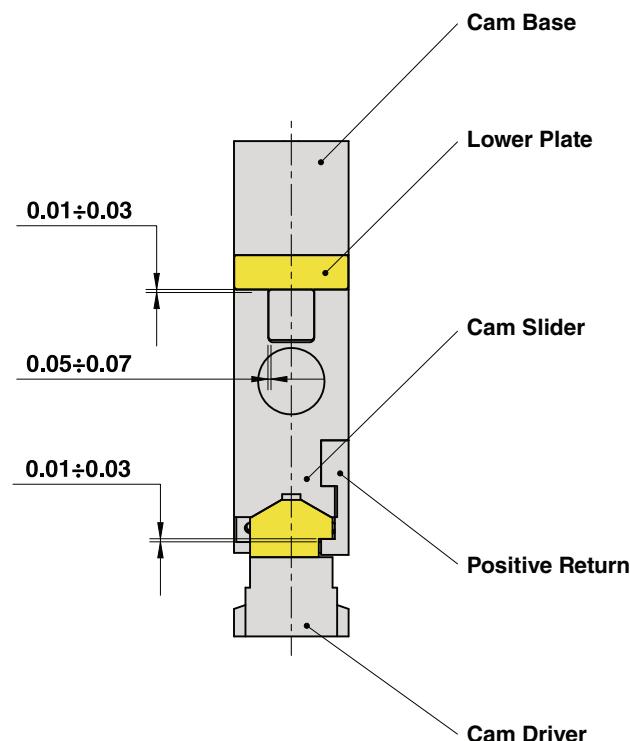


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

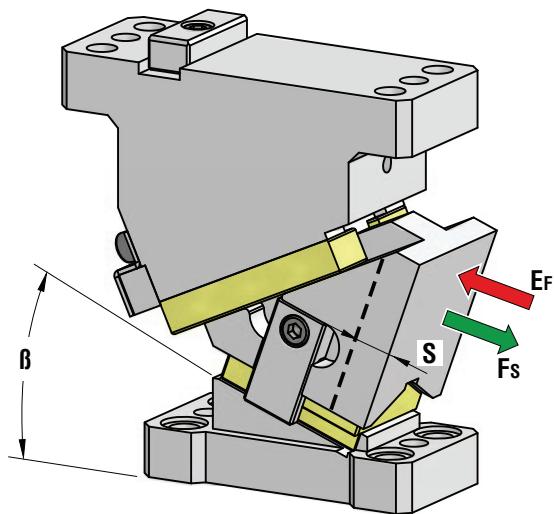
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



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



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P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S		E_F
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

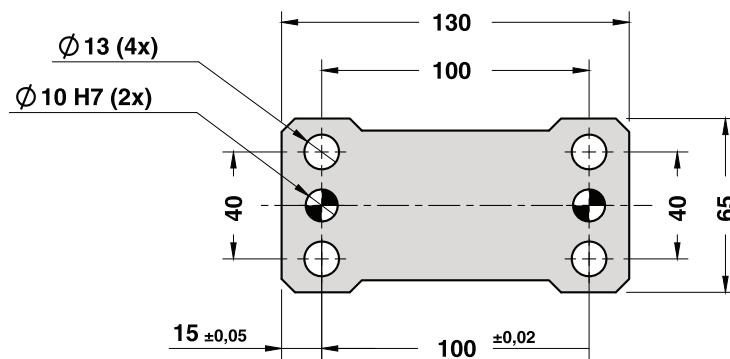
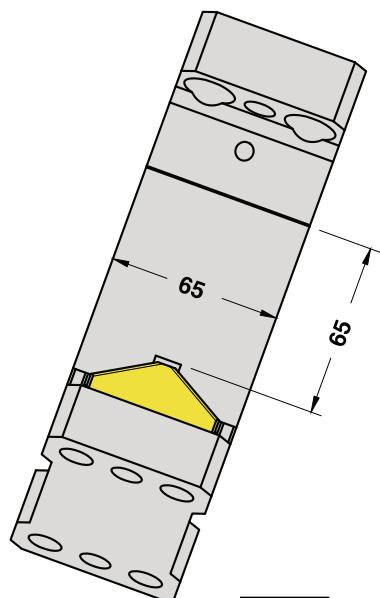
SL	1 ÷ 60 (1mm steps)
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		OPTION CODE		
Art.	Work Angle = 5°	SL		
CLC065	05	SL55		

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
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

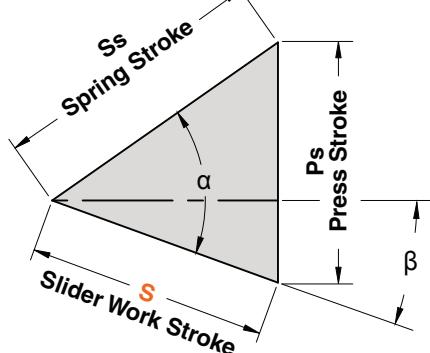
X VIEW



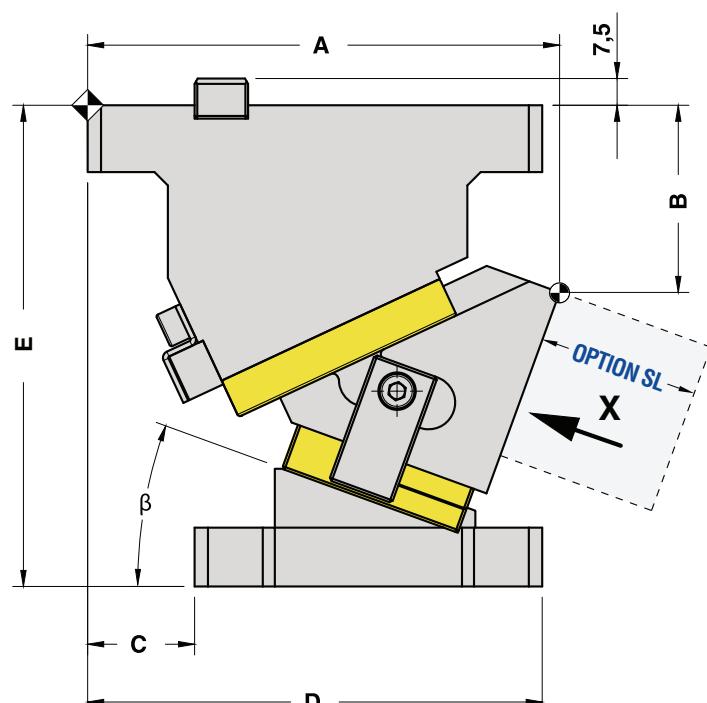
CAM DIAGRAM



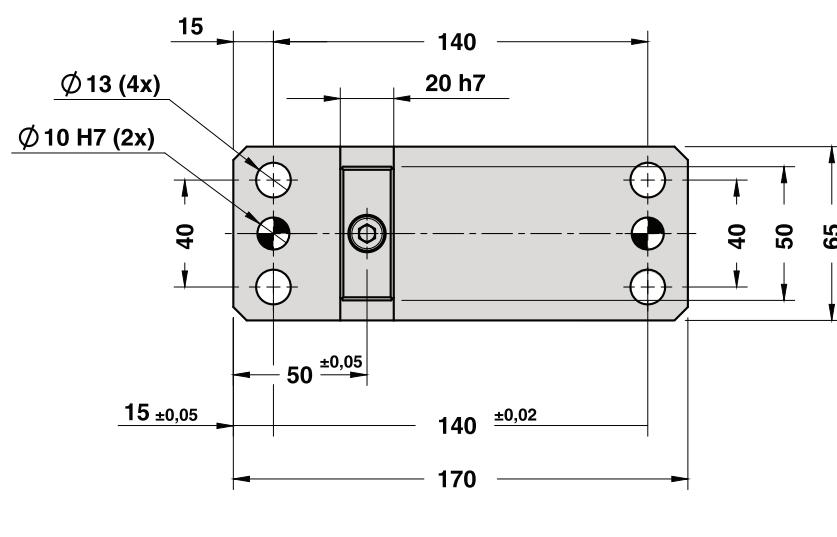
WEB



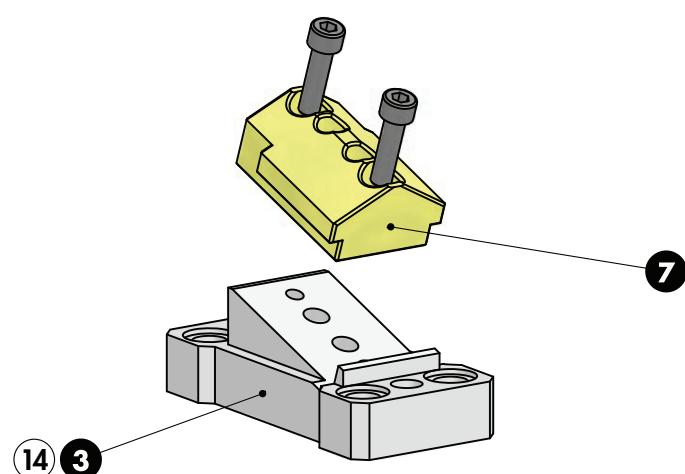
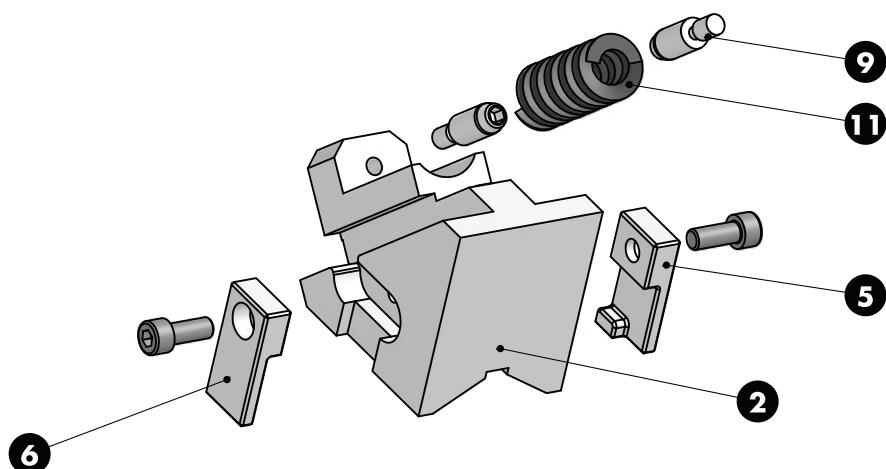
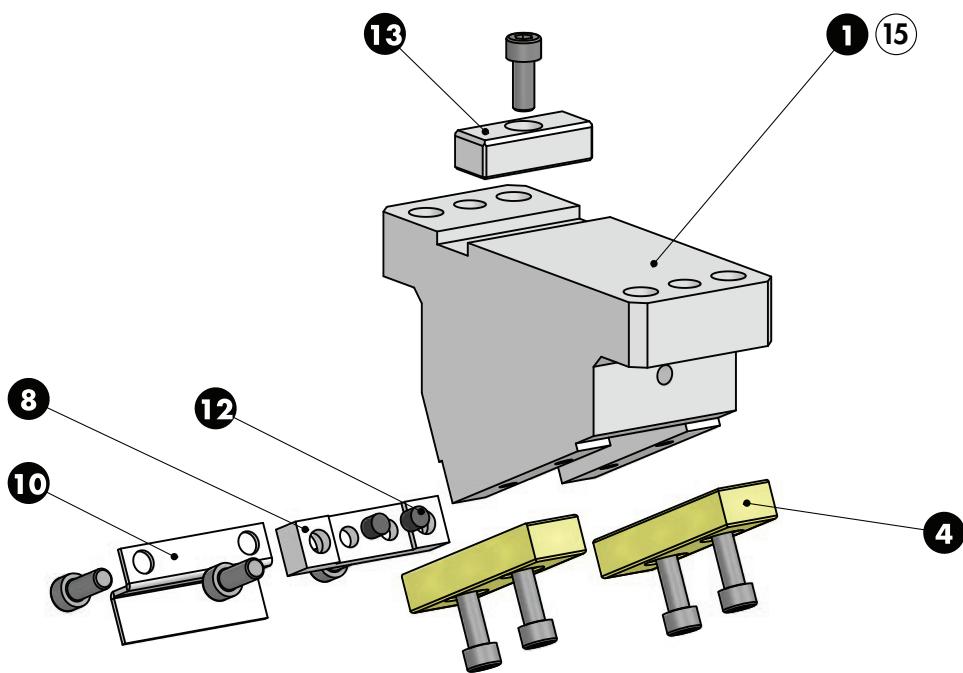
Cam Units CLC



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

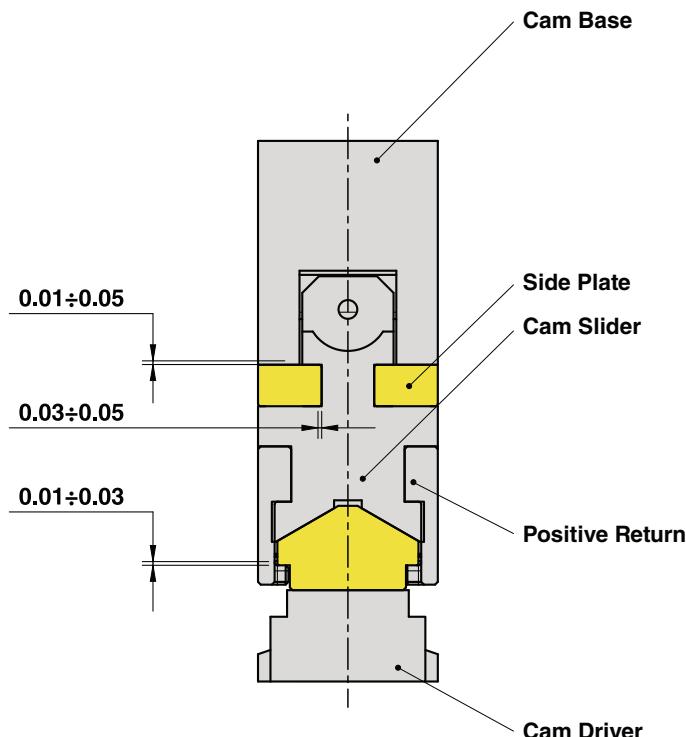


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

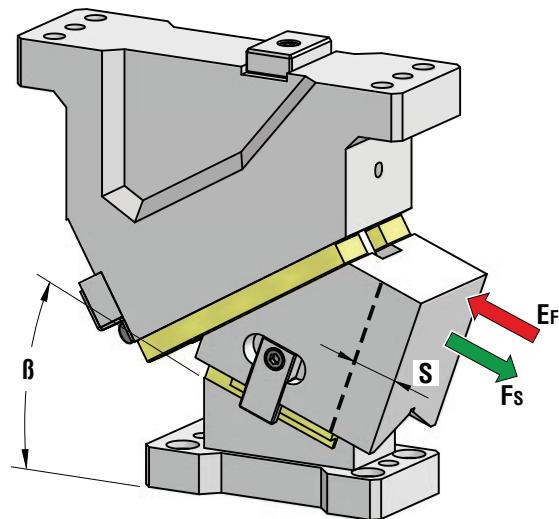


Cam Units CLC

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



WEB



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WEB



P.624

OMCR CODE	Work Angle	Max Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β			E_F
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

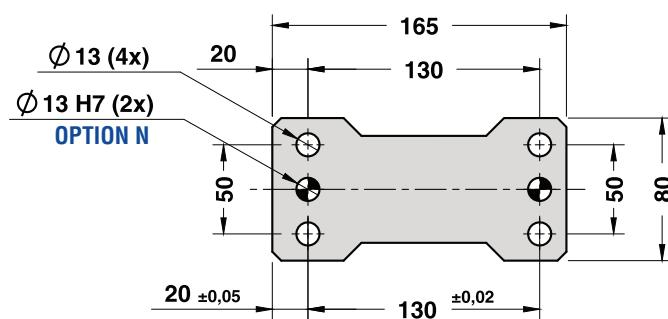
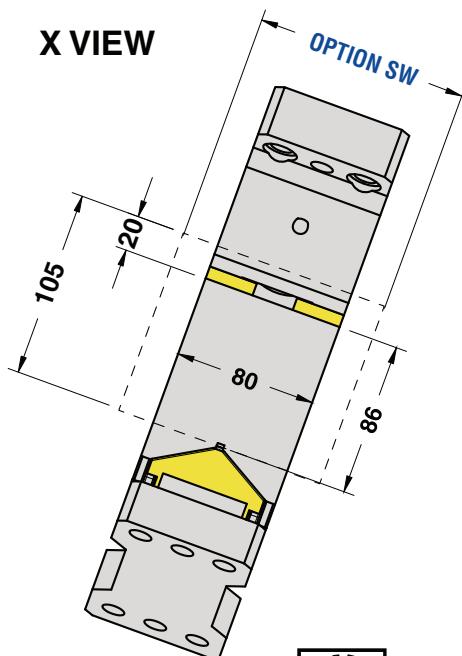
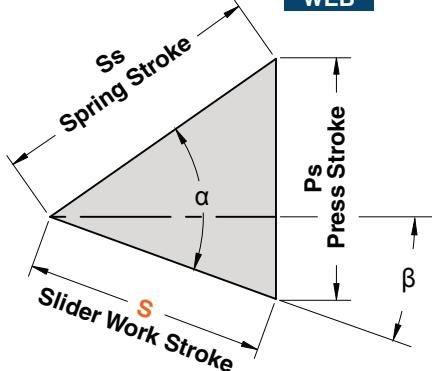
SL	1 ÷ 60 (1mm steps)
SW	100 or 120 mm
N	Ø 16 H7

OPTION CODE

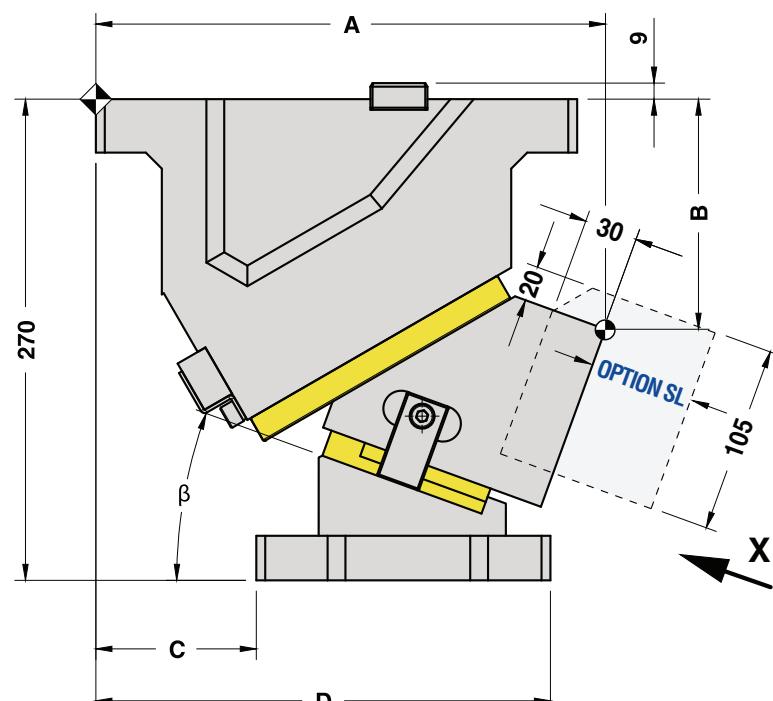
Art.	Work Angle = 5°	SL	SW	N
		CLC080	05	SL55 SW120 N16

OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
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

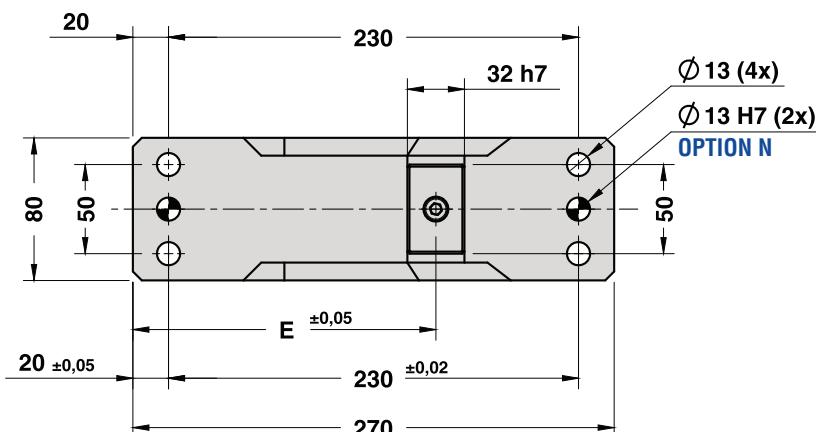
AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

**CAM DIAGRAM**

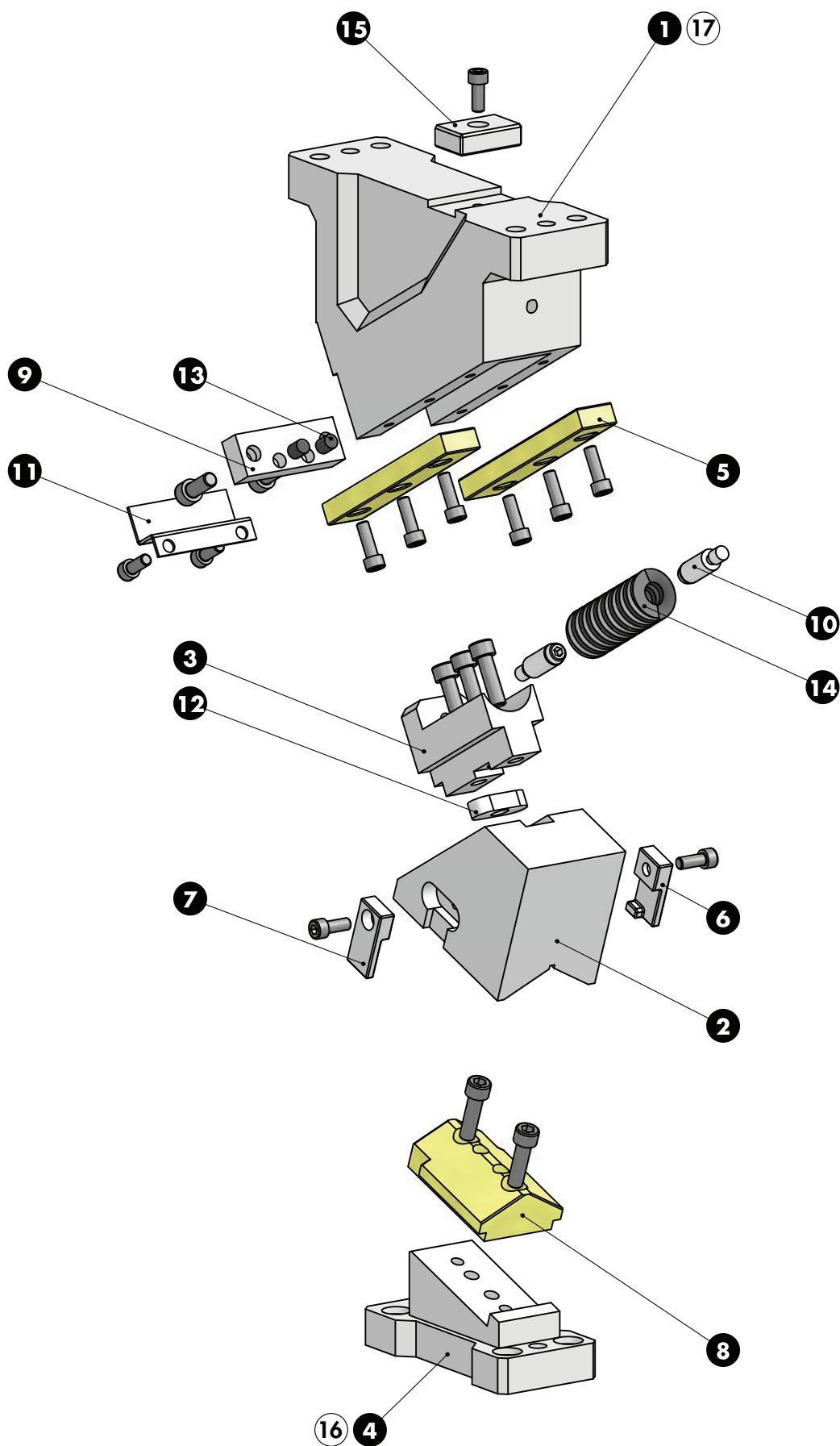
Cam Units CLC



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

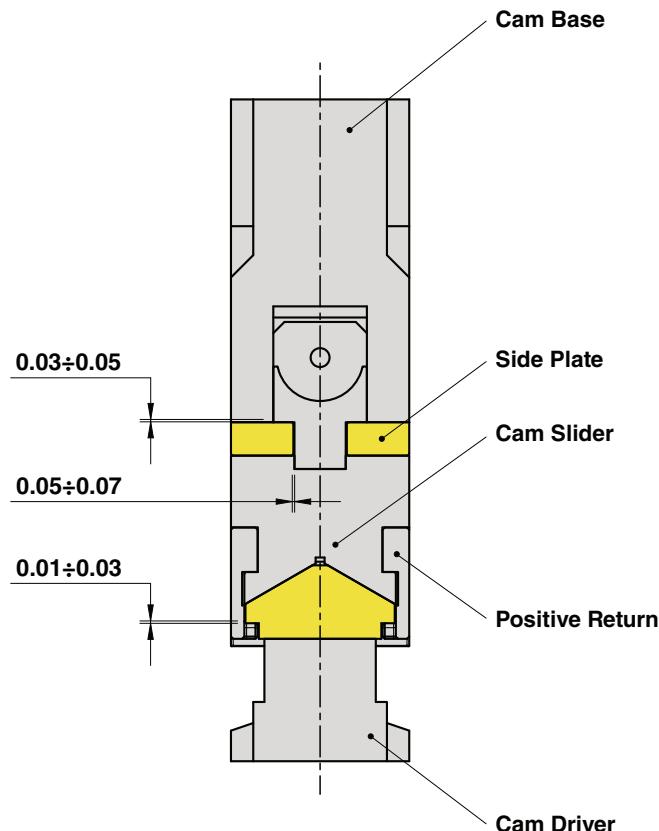


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

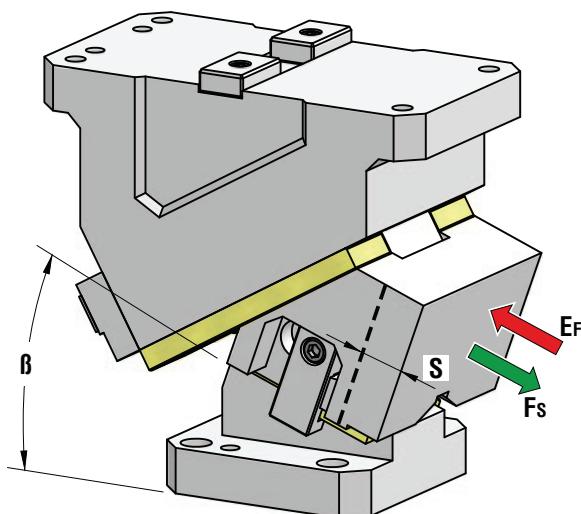


Cam Units CLC

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



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P.624

OMCR CODE	Work Angle β	Max Stroke (mm)	Max Work Force with shoulder (kN)		Extraction Force (kN) E _f
			S	F _s	
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

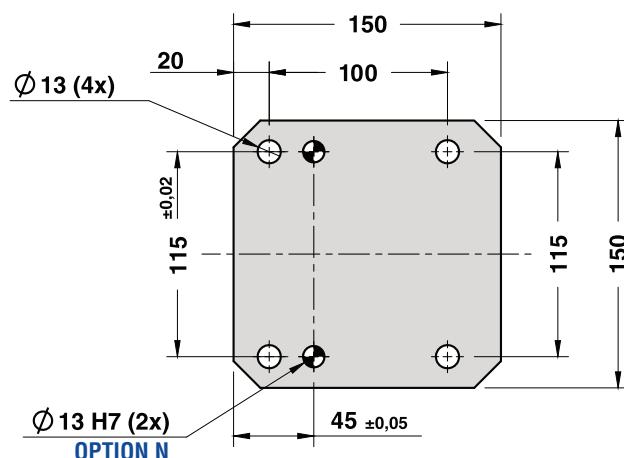
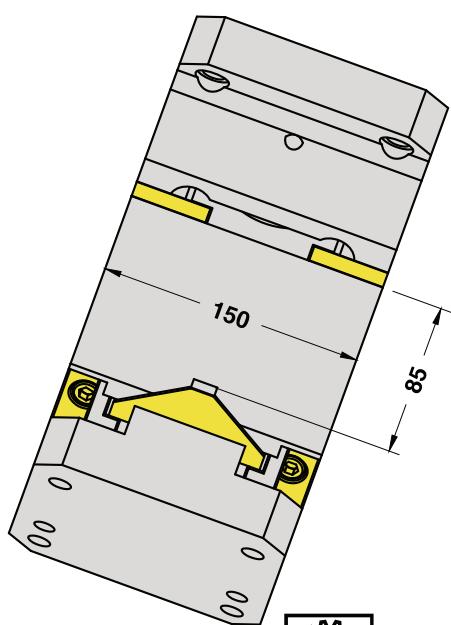
N	$\varnothing 16\text{ H}7$
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OPTION CODE		
Art.	Work Angle = 5°	N
CLC150	05	N16

OMCR CODE	Work Angle β	Overall Dimensions (mm)				
		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

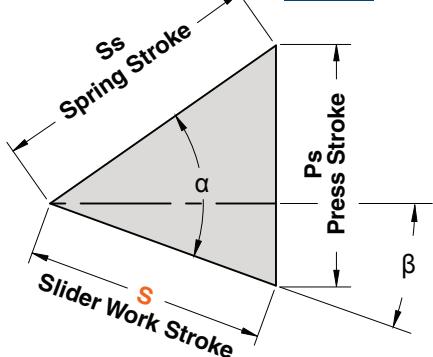
X VIEW



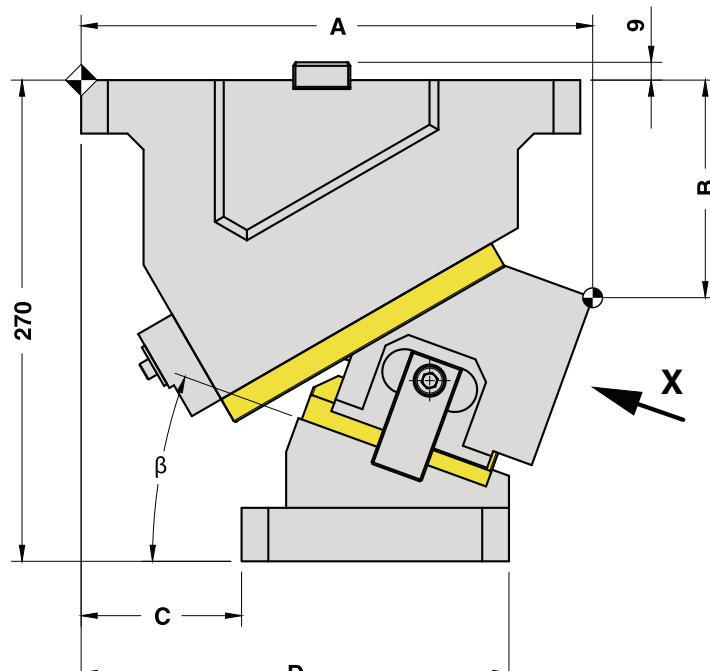
CAM DIAGRAM



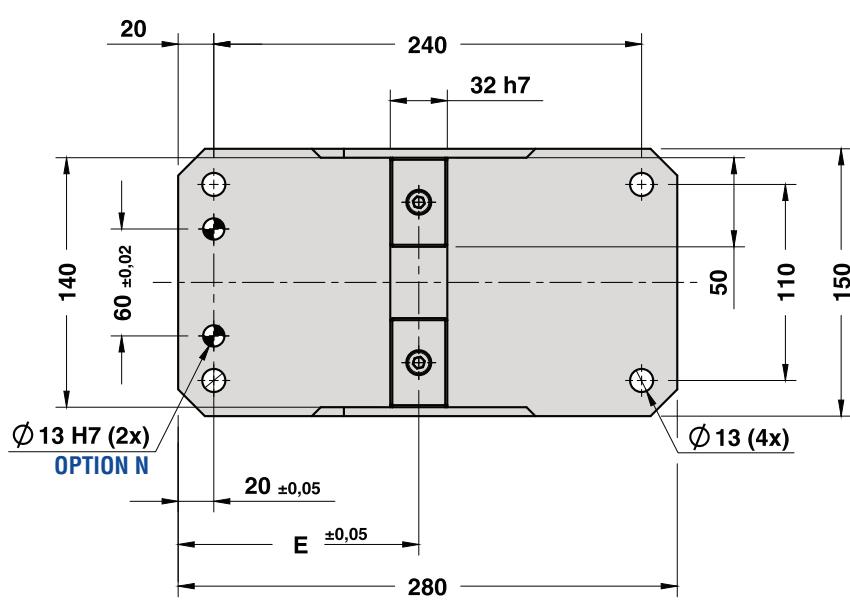
WEB



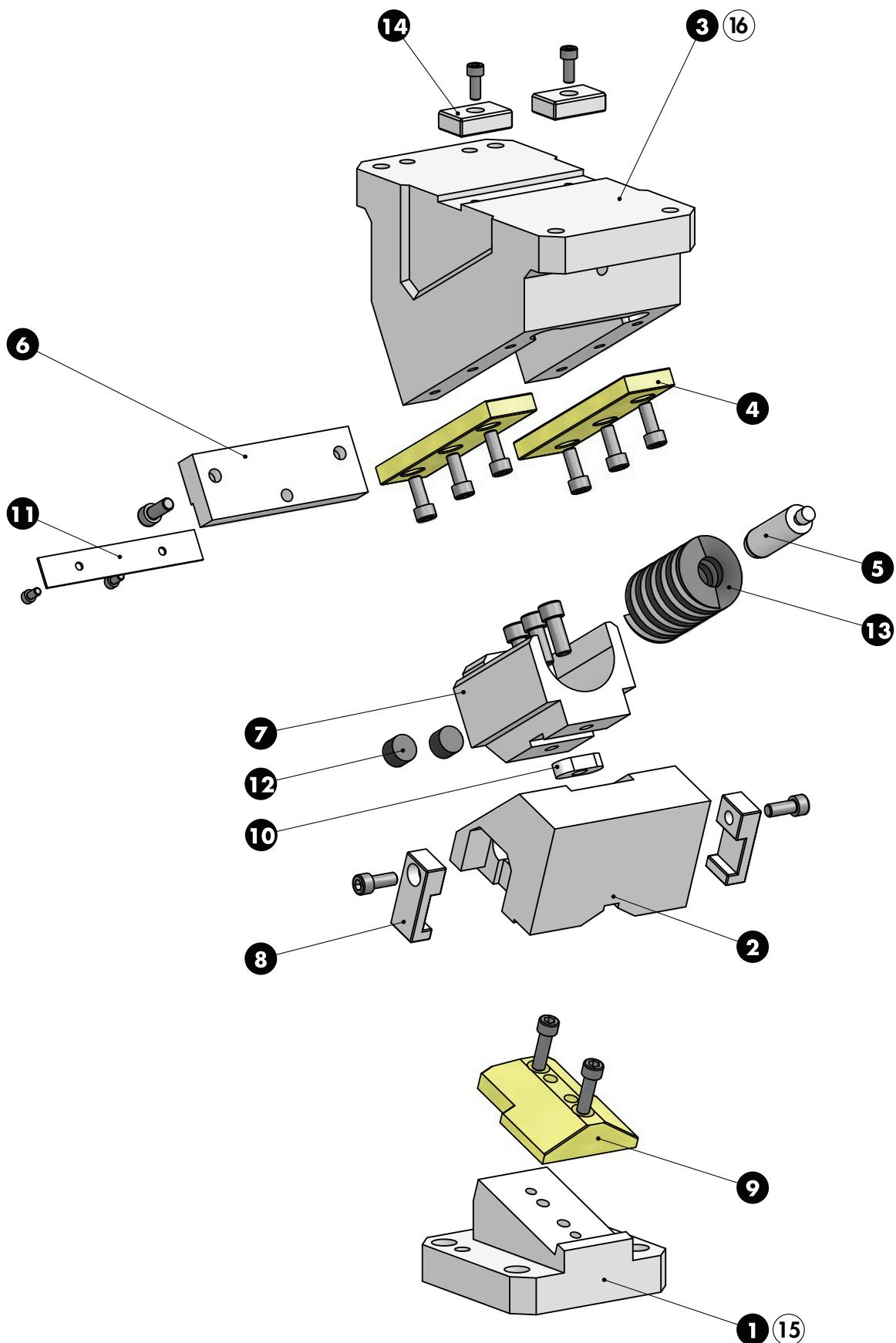
Cam Units CLC



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

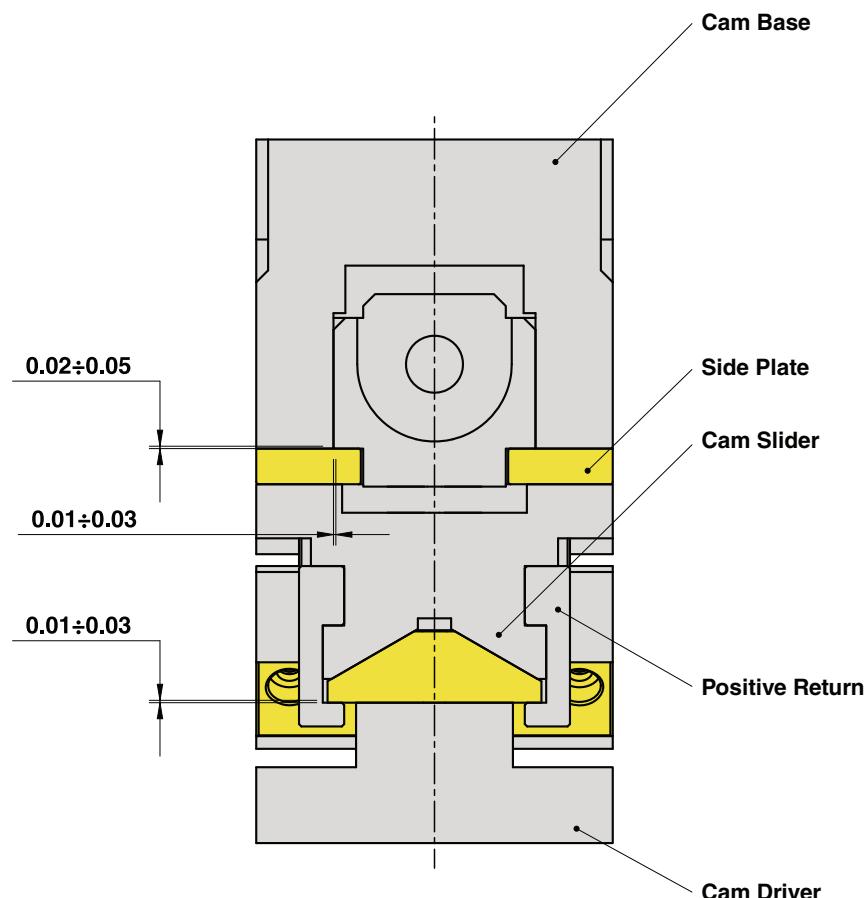


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CLC

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

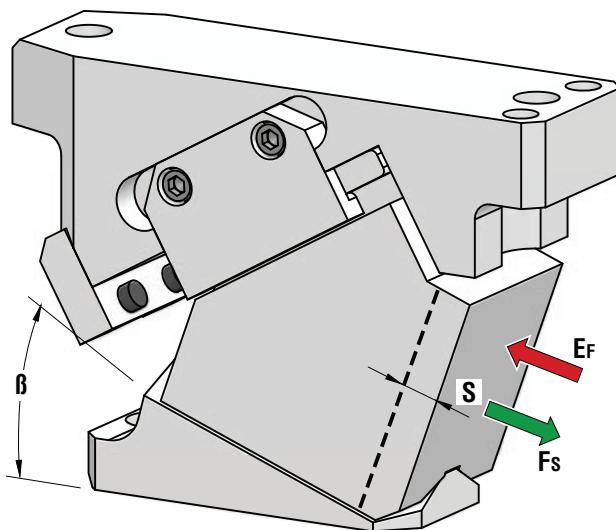
OMCR®
STANDARD DIE COMPONENTS

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)	Extraction Force (kN)	Page number
					F _s		
CLD052	0÷80°	52	125 (0°÷70°) 150 (75°÷80°)	52 x "I"	31	0,18÷0,66	818



Employees competence

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



WEB

WEB

WEB

P.624

OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)	
				Spring	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	

OPTION CODE

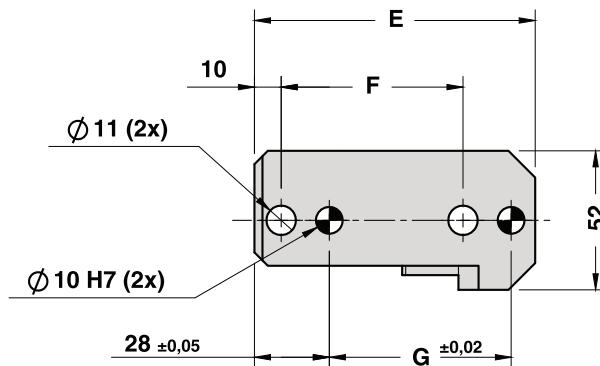
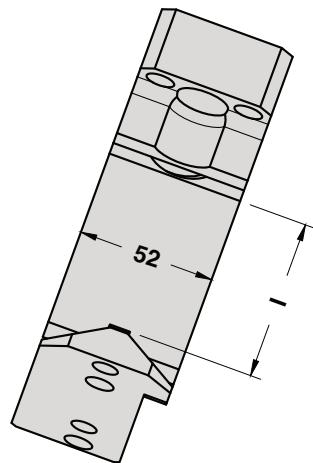
SL	1 ÷ 60 (1mm steps)
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OPTION CODE			
		Art.	Work Angle = 5°
		CLD052	05
			SL55

OMCR CODE	Work Angle β	Overall Dimensions (mm)									I
		A	B	C	D	E	F	G	H		
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

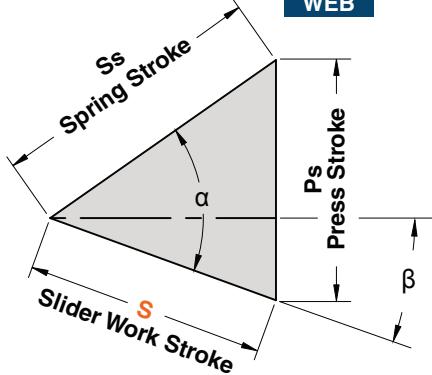
X VIEW



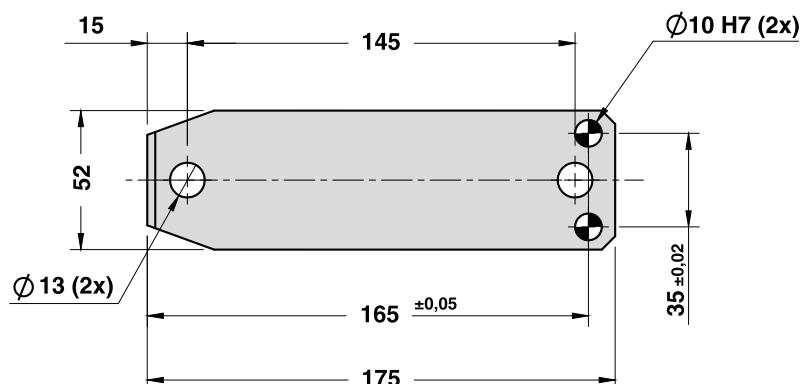
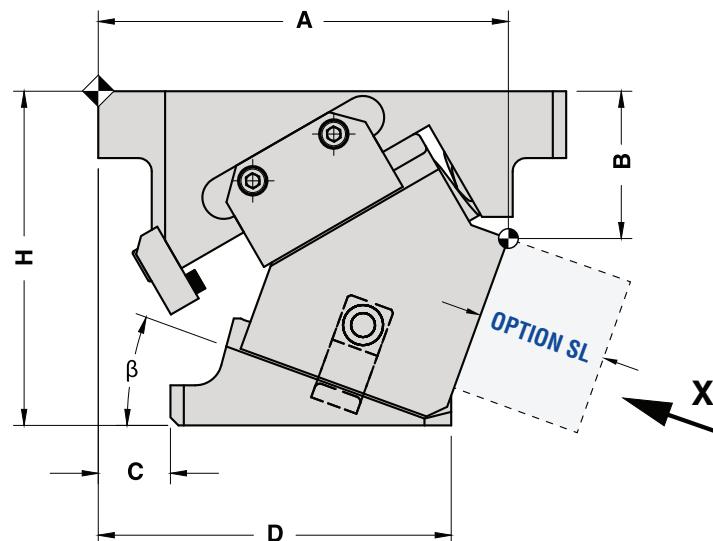
CAM DIAGRAM



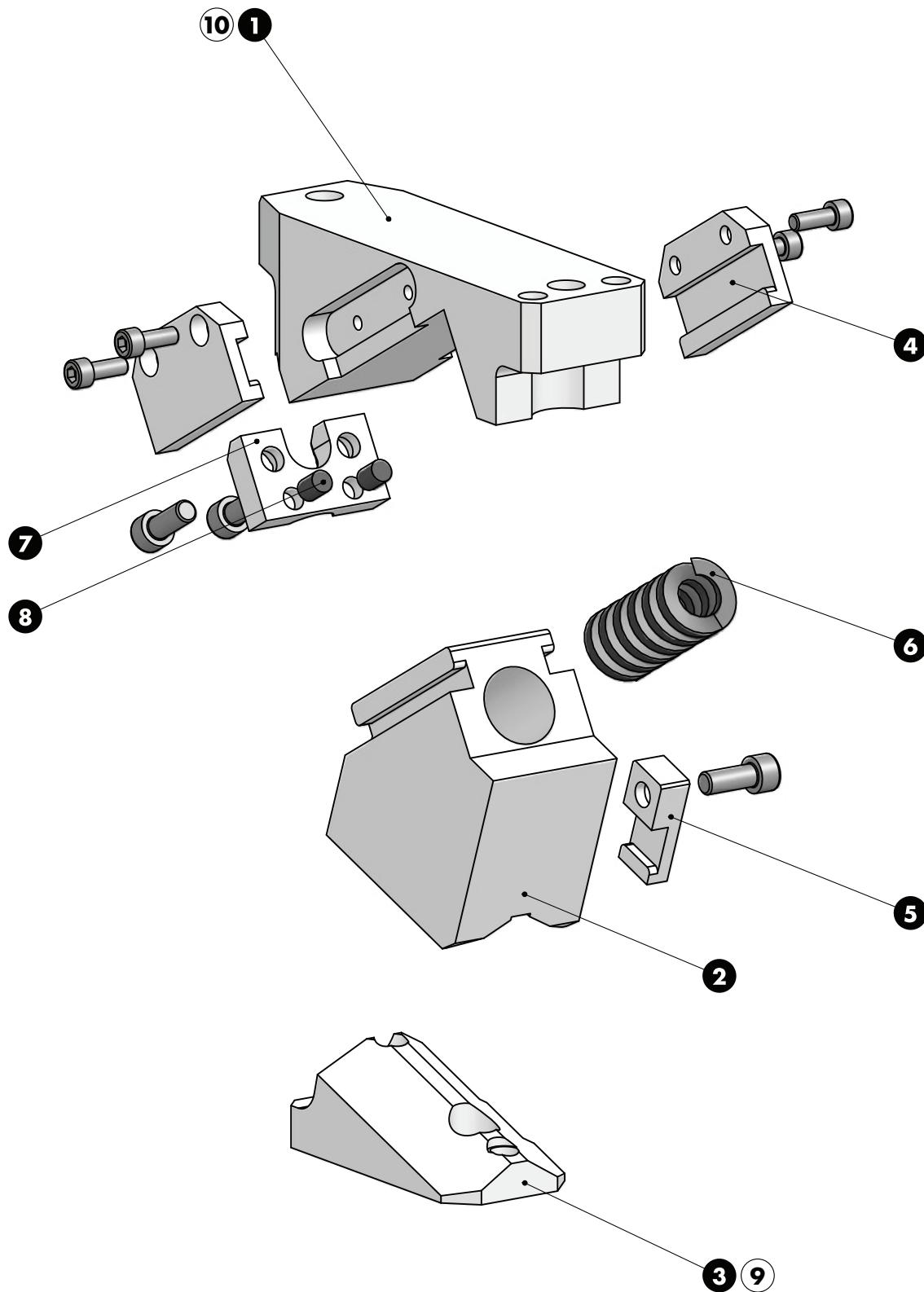
WEB



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

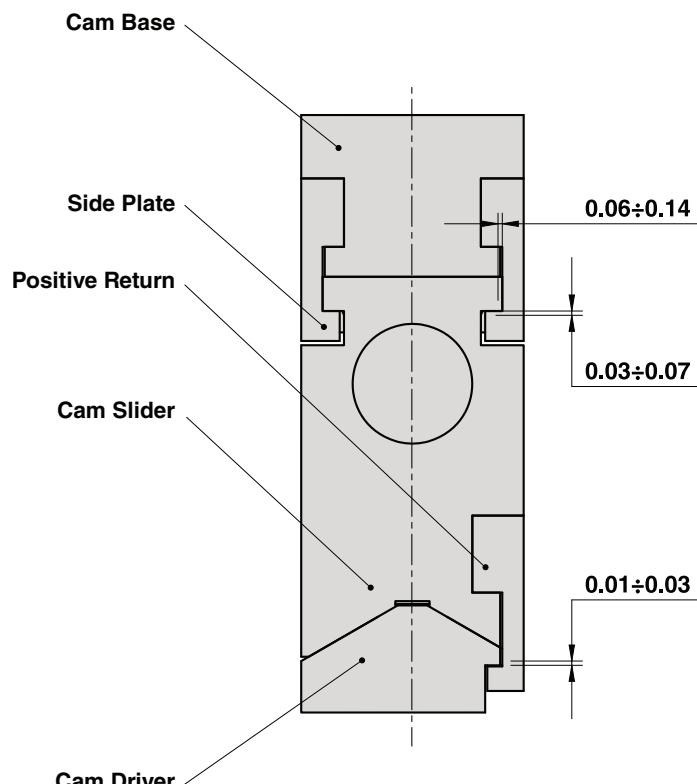


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

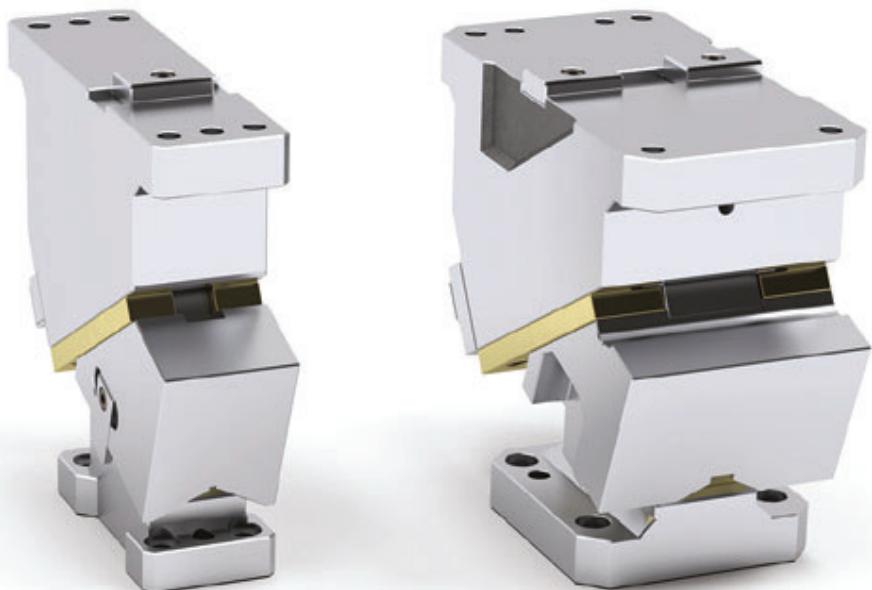
SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CLD

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

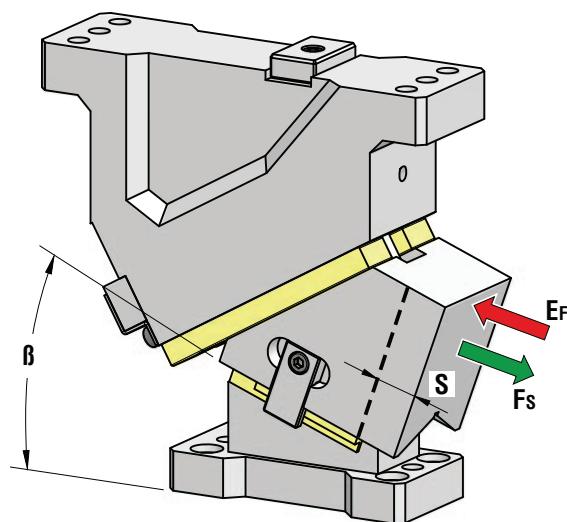
Schieber CLF

Unità a Camme CLF

OMCR®
STANDARD DIE COMPONENTS

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	
CLF080	0÷70°	80	270	80x86	116	1,26÷2,72	824
CLF150	0÷70°	150	270	150x85	192	3,66÷7,25	828

AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



WEB



WEB



WEB



P.624

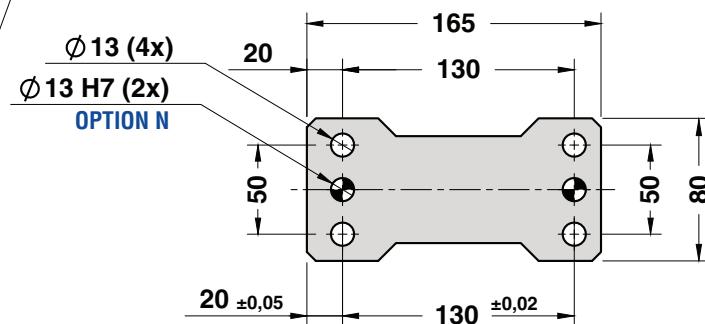
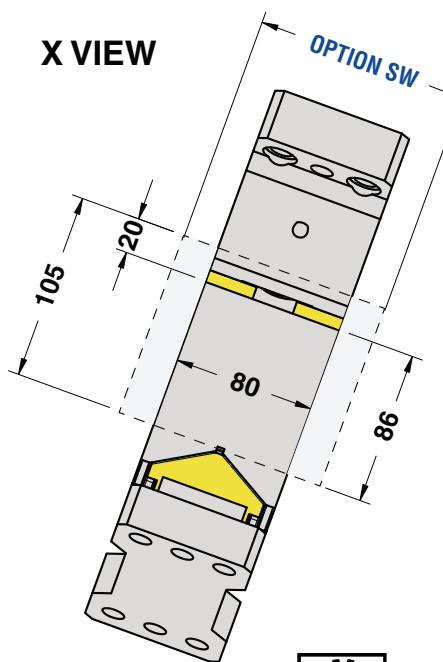
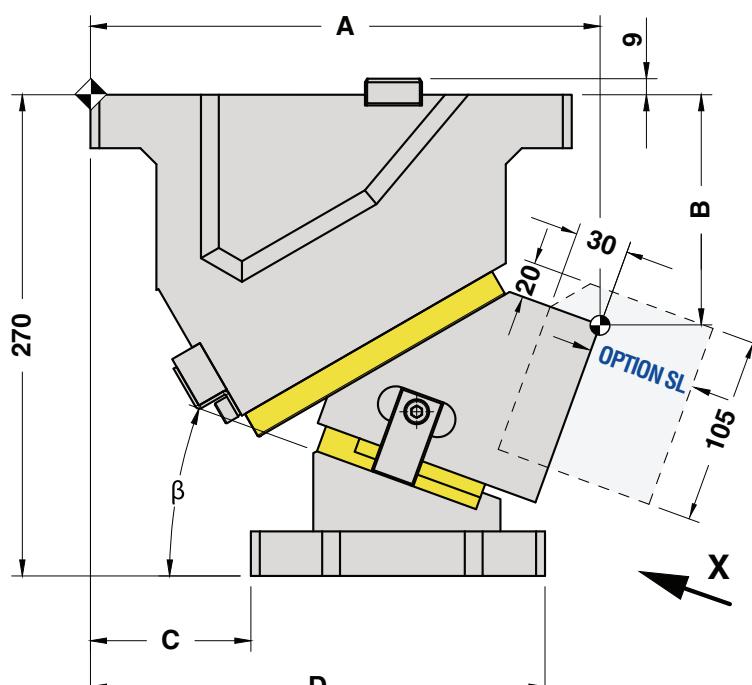
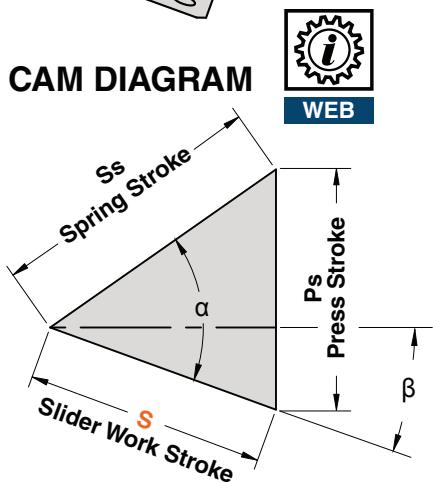
OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
CLF080.00	0°	32,14	116	2,47
CLF080.05	5°	38,45	116	2,72
CLF080.10	10°	38,89	116	2,47
CLF080.15	15°	39,65	116	2,21
CLF080.20	20°	46,08	116	2,47
CLF080.25	25°	47,78	116	2,21
CLF080.30	30°	54,25	116	2,47
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

OPTION CODE					
	Art.	Work Angle = 5°	SL	SW	N
	CLF080	05	SL55	SW120	N16

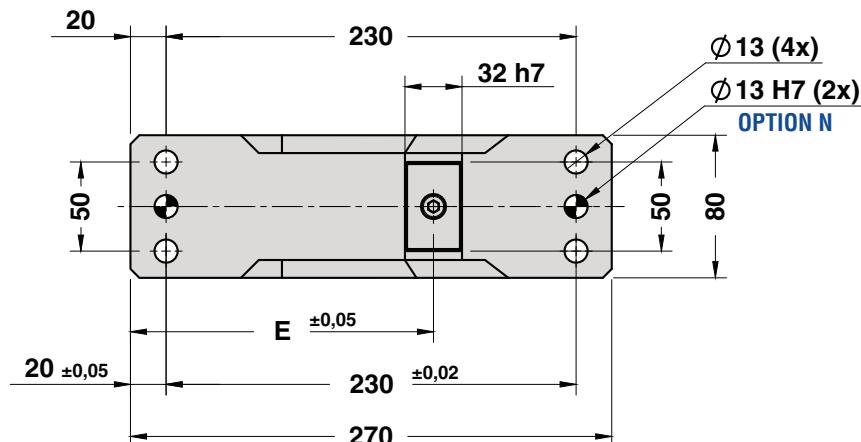
OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
CLF080.00	0°	260	99	100	265	130
CLF080.05	5°	272,93	109,39	100	265	150
CLF080.10	10°	279,92	120,43	100	265	150
CLF080.15	15°	285,93	132,04	100	265	150
CLF080.20	20°	285,90	129,12	90	255	170
CLF080.25	25°	289,80	141,60	90	255	170
CLF080.30	30°	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

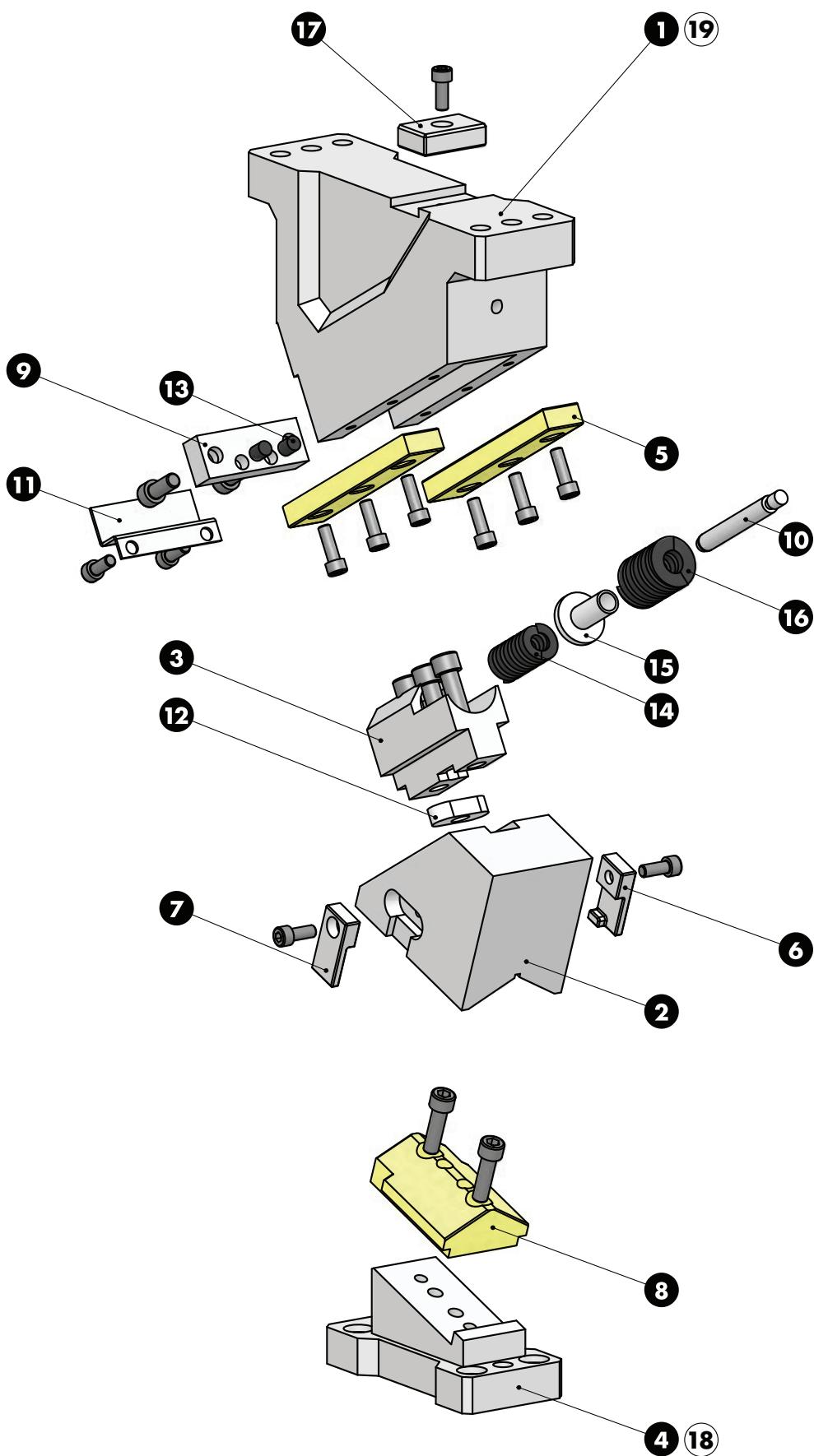
**CAM DIAGRAM**

Cam Units CLF

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

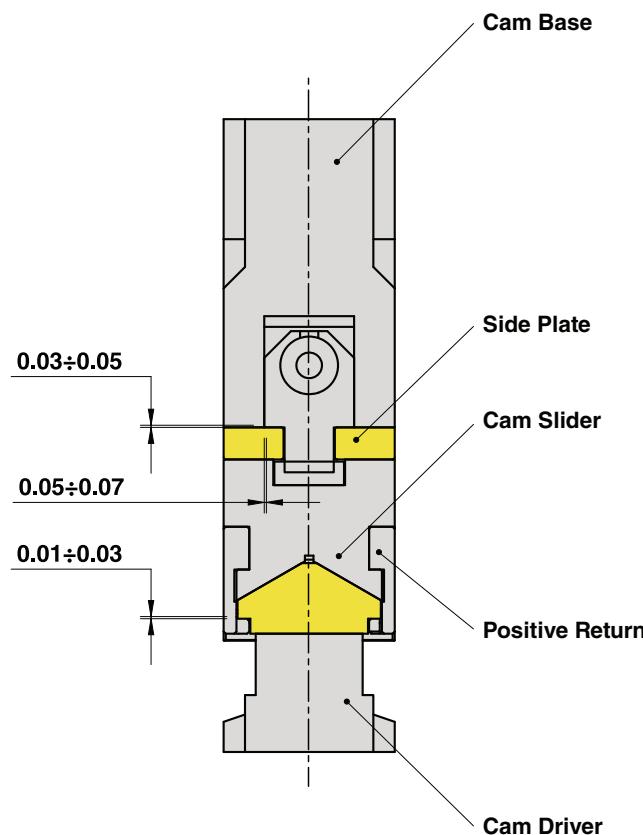


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

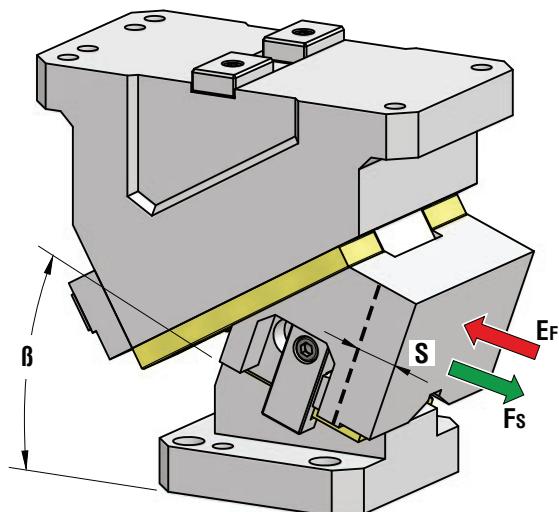


Cam Units CLF

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



WEB



WEB



WEB



P.624

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S	F _s	E _F
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

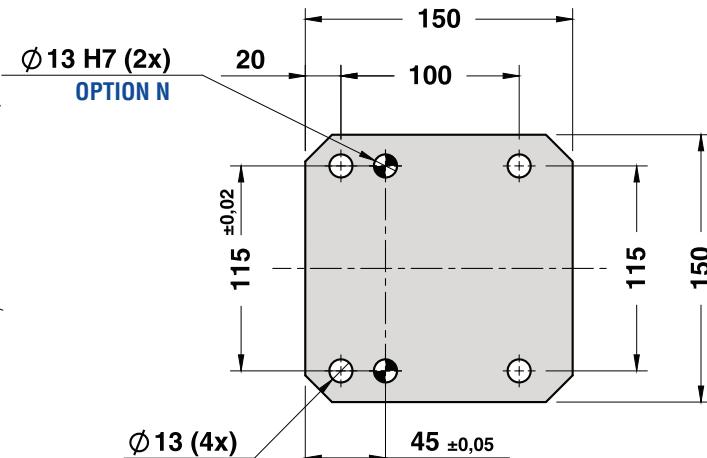
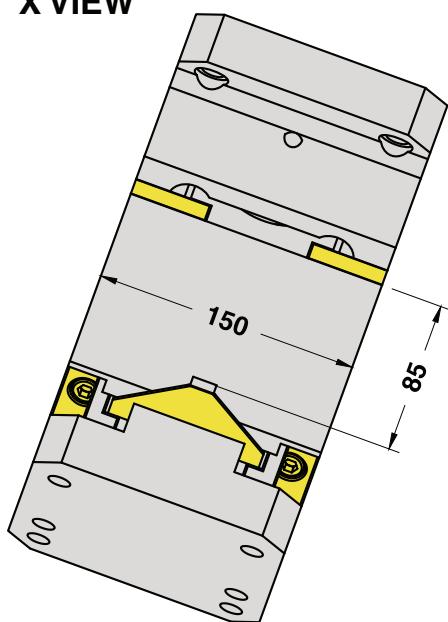
N	Ø 16 H7
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OPTION CODE			
Art.	Work Angle = 5°	N	
CLF150	05	N16	

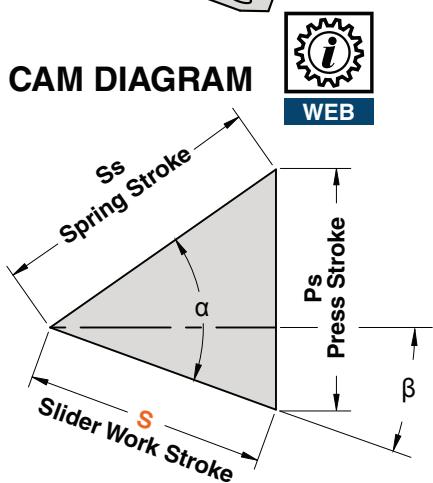
OMCR CODE	Work Angle	Overall Dimensions (mm)				
		β	A	B	C	D
CLF150.00	0°	280	85	120	270	100
CLF150.05	5°	288,26	95,84	115	265	100
CLF150.10	10°	285,54	102,36	105	255	100
CLF150.15	15°	291,79	114,47	105	255	100
CLF150.20	20°	286,97	122,07	90	240	135
CLF150.25	25°	291,02	135,08	90	240	135
CLF150.30	30°	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

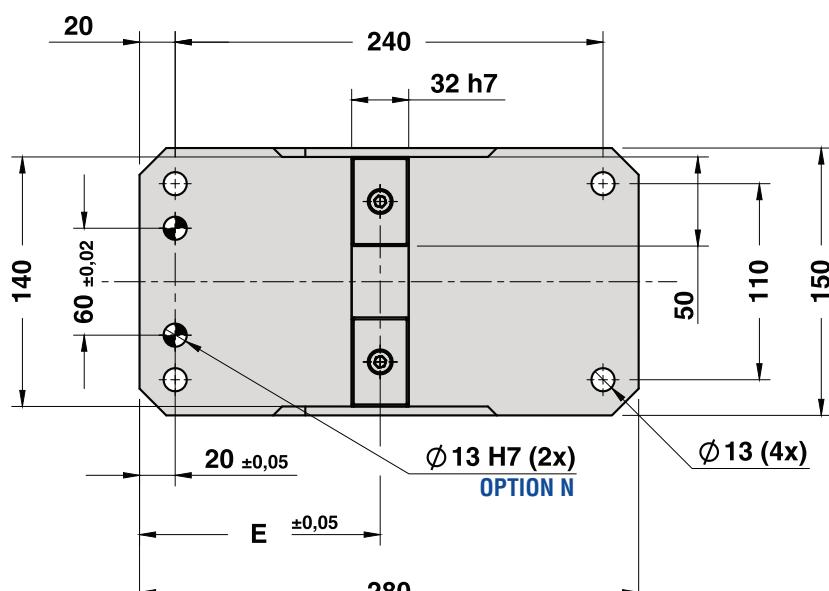
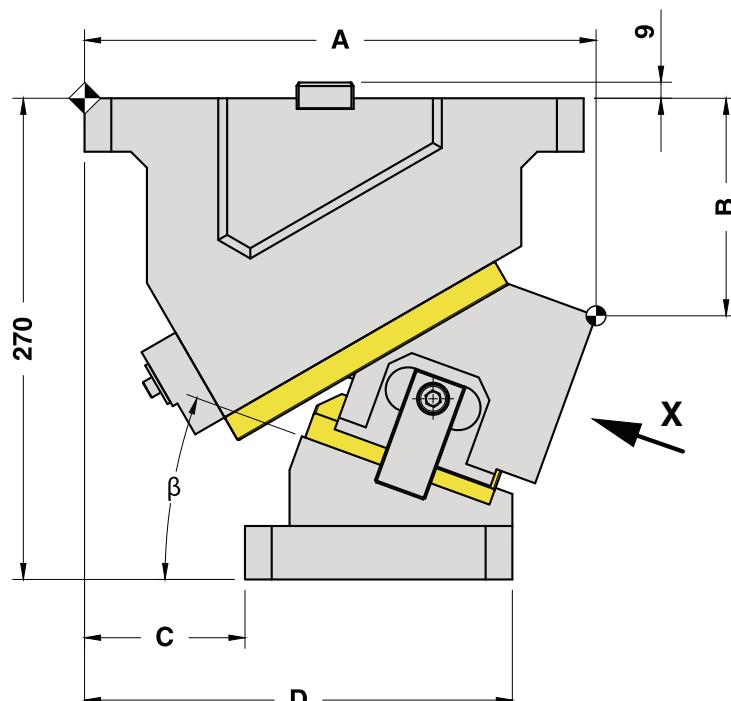
X VIEW



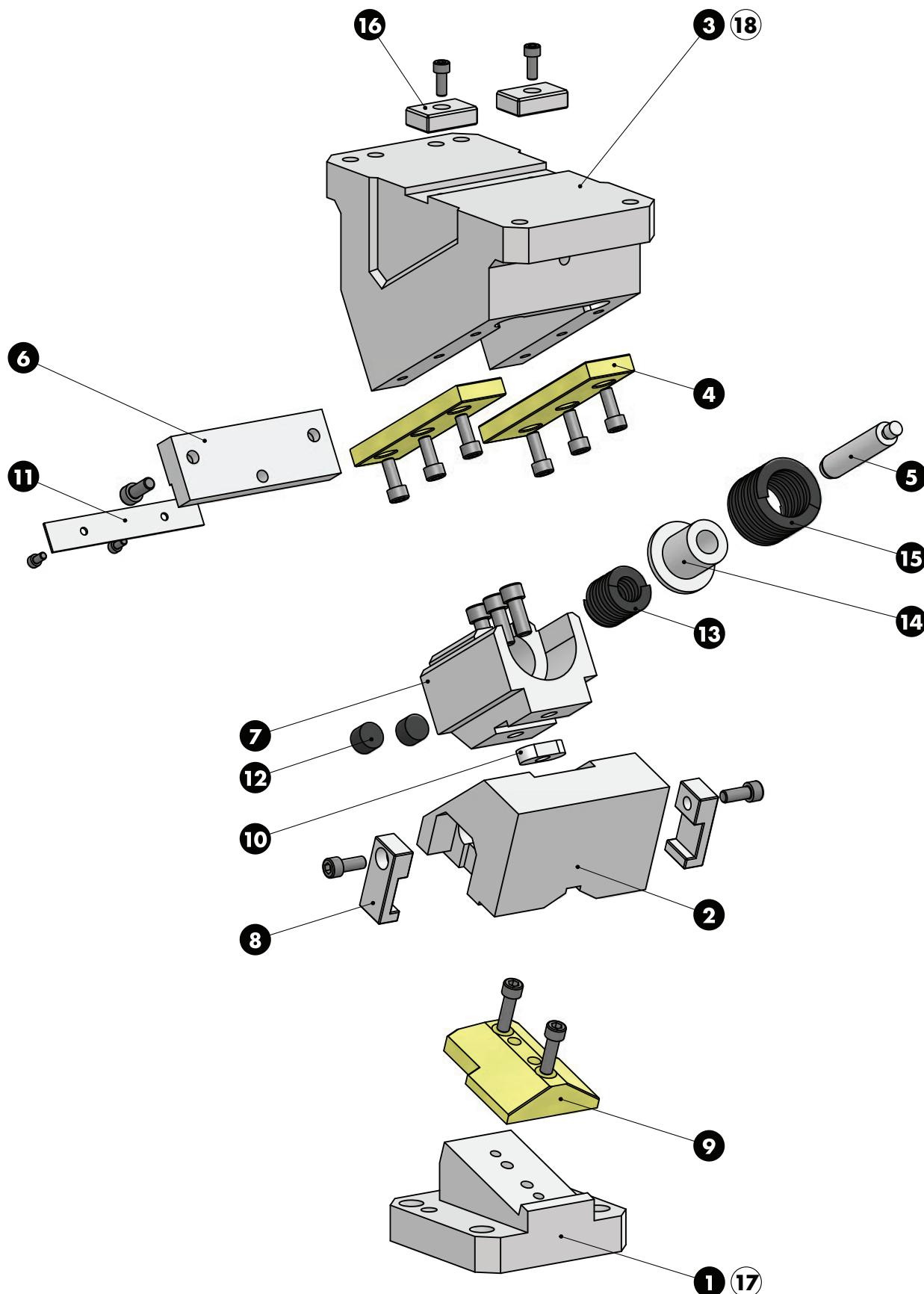
CAM DIAGRAM



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

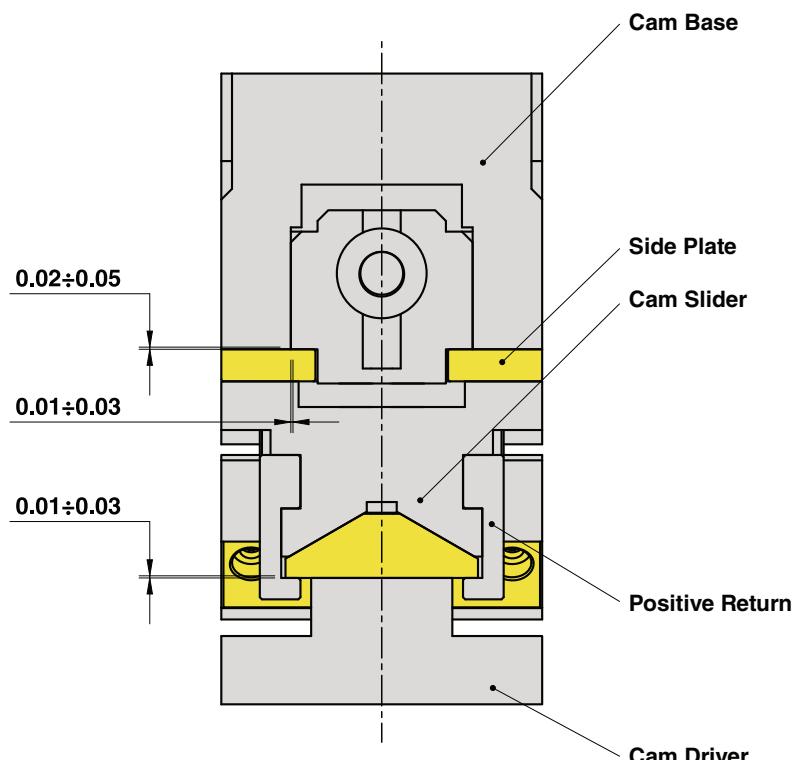


AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA



AERIAL CAM UNIT - OBEN HÄNGENDER SCHIEBER - UNITÀ A CAMME SOSPESA

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units CLF

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



OMCR®
STANDARD DIE COMPONENTS

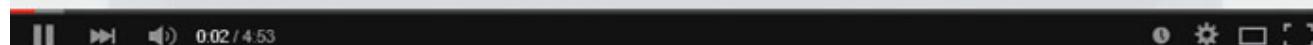
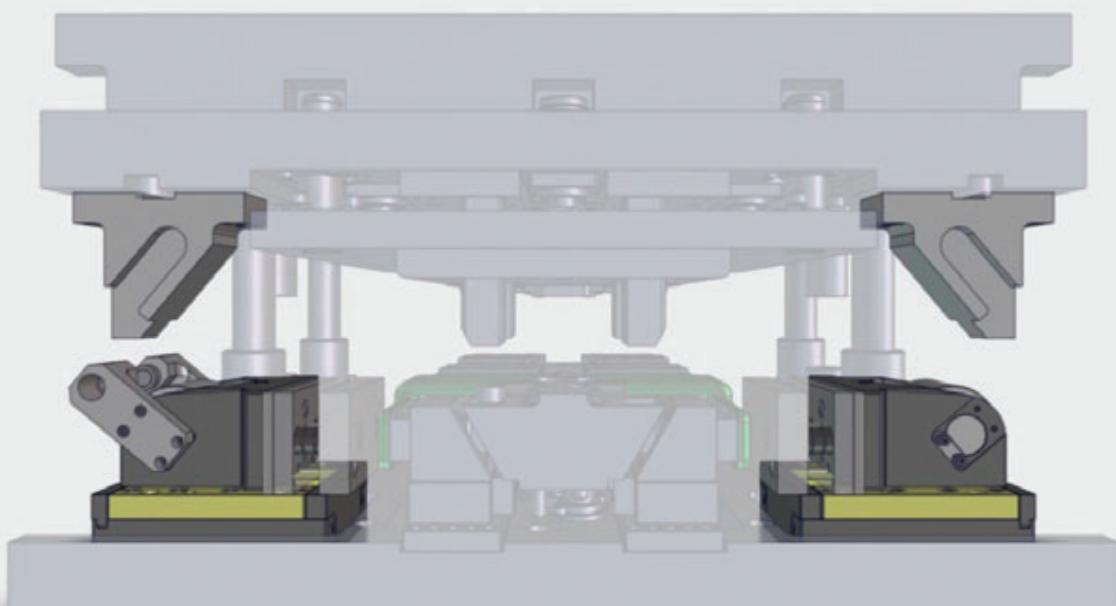
UTILITY MODEL 20 2014 90 2313403

OMCR CODE	Work Angle β	Slider Width (mm)	Work Area W x H (mm)	Max Work Force 10^6 cycles (kN)	Extraction Force (kN)	Page number
					F _s	
CRX01	-15°÷50°	78	78x63	45	2,5÷3,4	834
CRX03	-15°÷50°	98	98x63	76	3,4÷3,6	840
CRX05	-15°÷50°	118	118x74	142	6,36÷6,46	846
CRX15	-15°÷50°	170	170x94	166	6,45÷6,61	852
CRX20	-15°÷50°	240	240x110	258	9,29÷9,38	858

ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

OMCR CODE	Roller Cam Model	Work Angle β	Page number
DCRX0100	CRX01	-15°÷50° (5° steps)	864
DCRX0305	CRX03 - CRX05	-15°÷50° (5° steps)	866
DCRX1520	CRX15 - CRX20	-15°÷50° (5° steps)	868

100% SAFETY WITH POSITIVE RETURN - 100 % SICHERHEIT MIT DER ZWANGSRÜCKHOLUNG
100% SICURA CON IL GANCI DI RITORNO

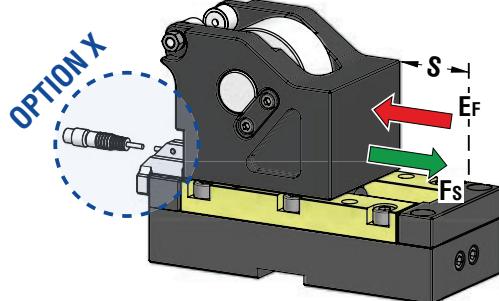


CRX: how does it work?
CRX: wie funktioniert es?
CRX: come funziona?





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
	S	Fs	Ef
CRX01.030	30	45	2,5
CRX01.050	48	45	3,4



WEB

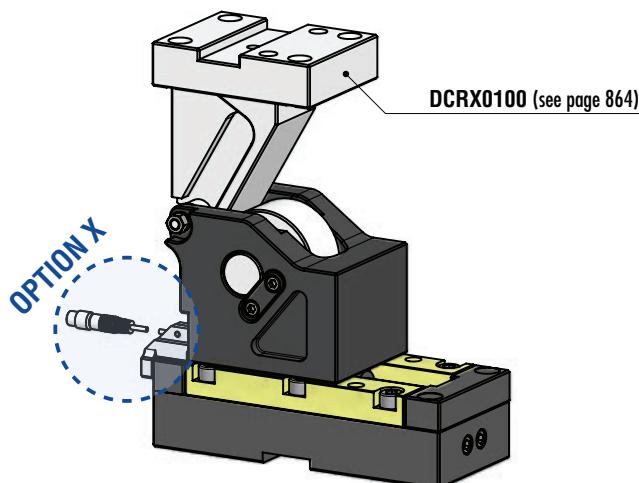


WEB



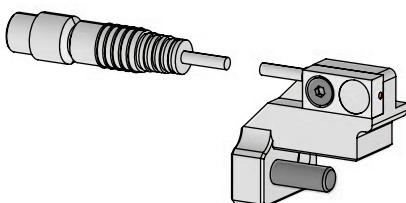
P.624

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



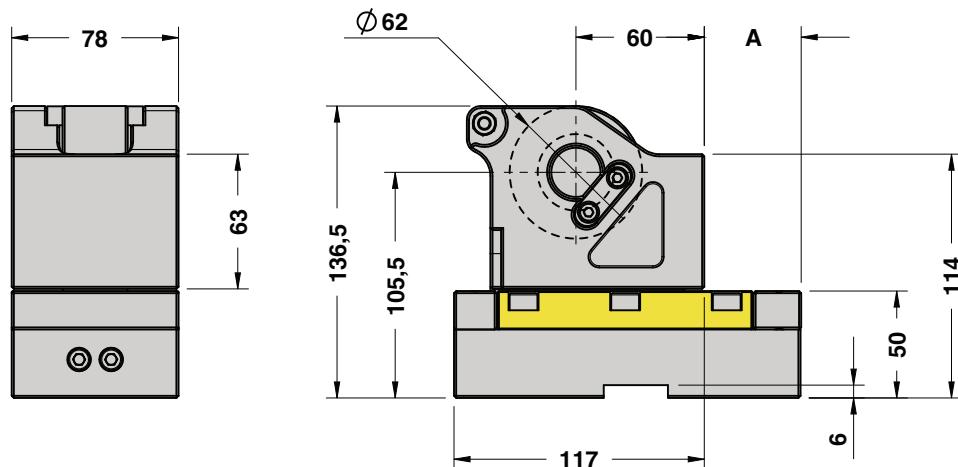
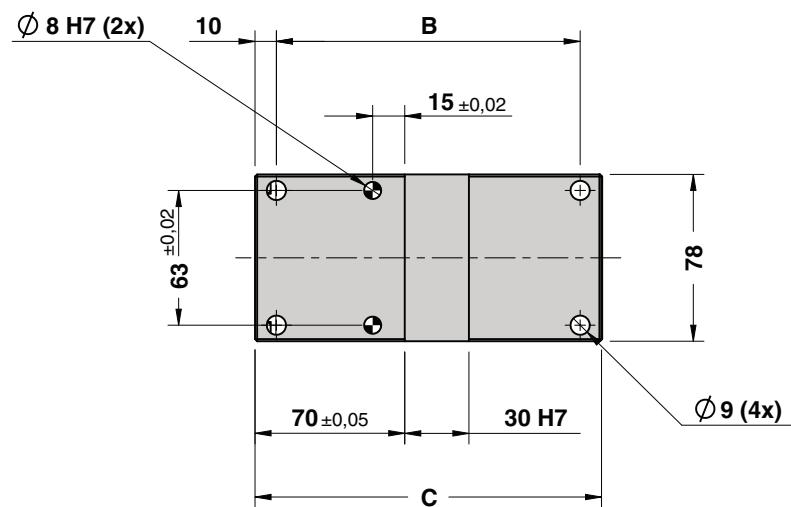
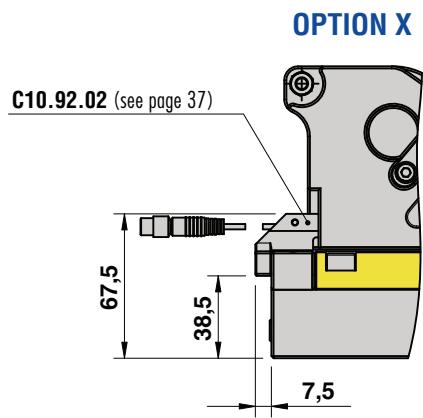
Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

STOCK	ORDER EXAMPLE	Art.	OPTION DRIVER	OPTION X
		CRX01.050	000	X

OMCR CODE	Stroke (mm)	Overall Dimensions (mm)		
		S	A	B
CRX01.030	30	45	142	162
CRX01.050	48	65	162	182

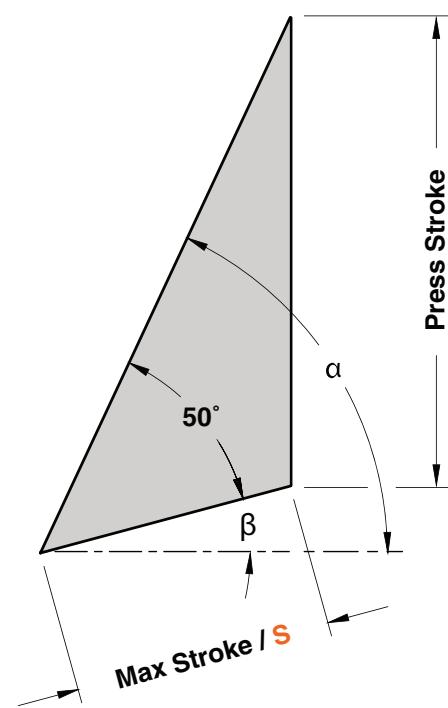
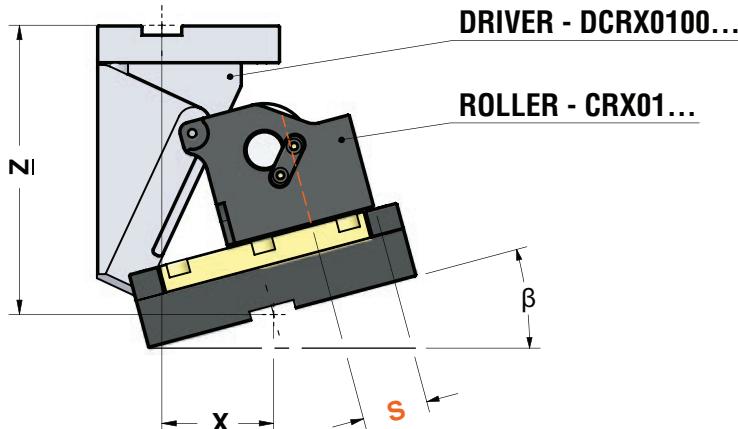
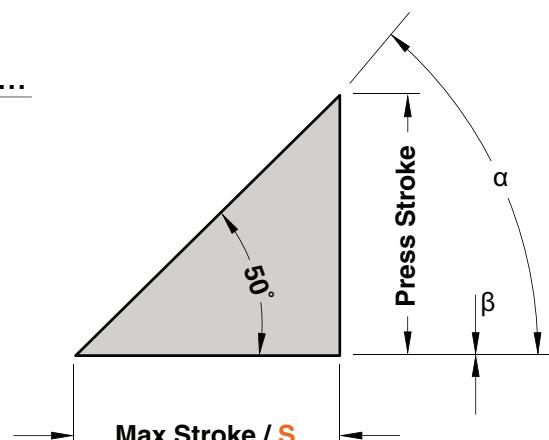
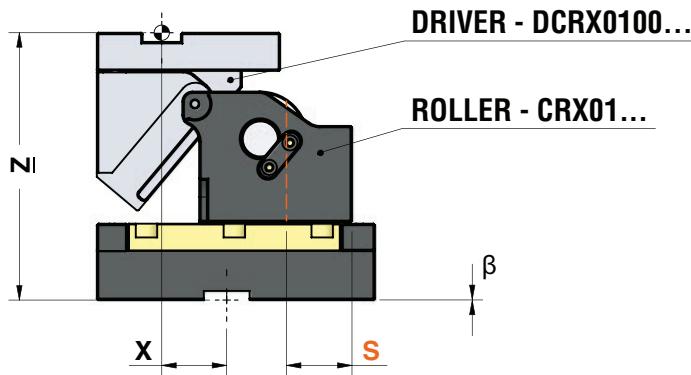
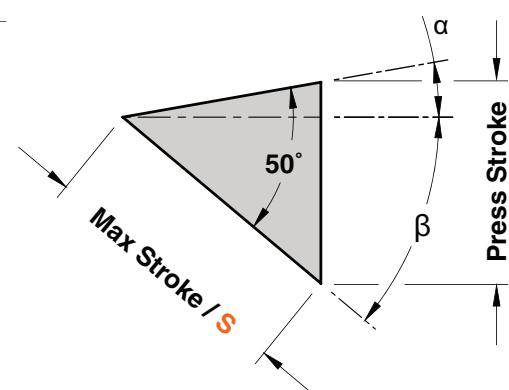
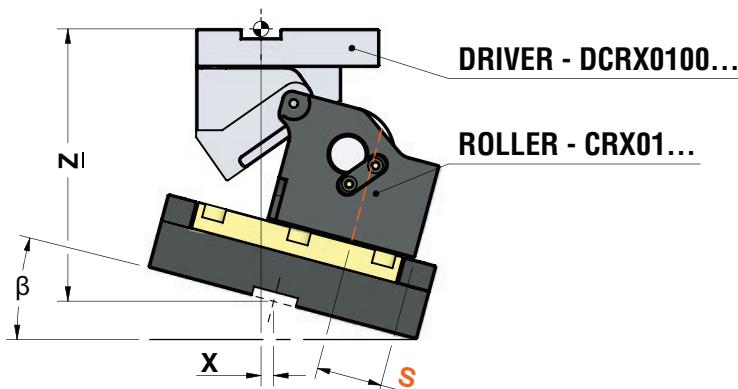


ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





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° 



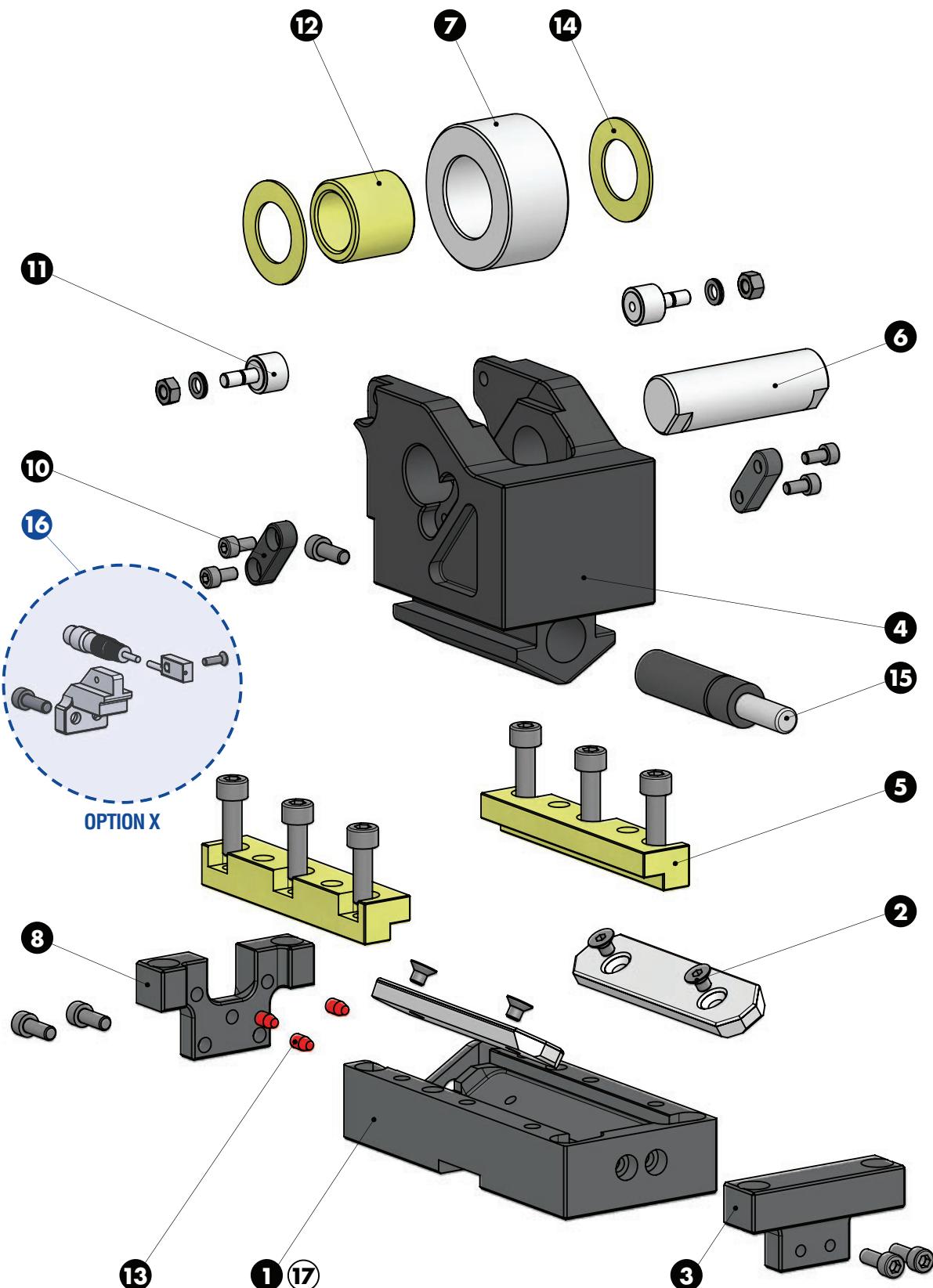
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 834 / Weitere Informationen finden Sie auf der Seite 834 / Per maggiori informazioni consultare la pagina 834

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
CRX01.050	45°	5°	30	23,1	DCRX0100.30.L45	-61,35	161,93
	50°	0°	30	23,0	DCRX0100.30.L50	-72,07	157,02
	-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



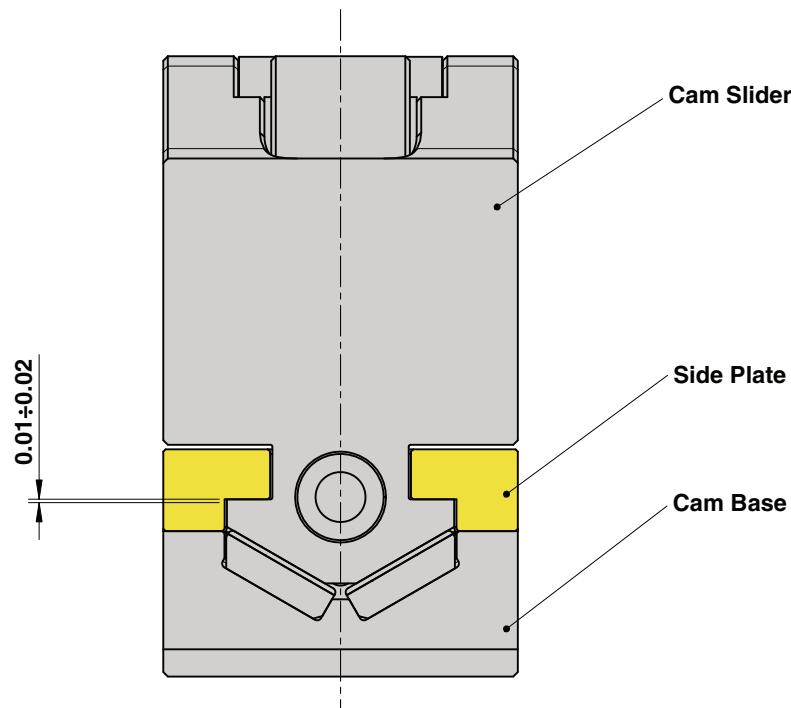
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

SLIDER STRUCTURE AND CLEARANCES



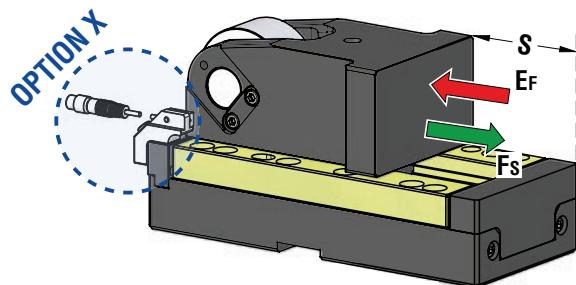
PART LIST

Particular number	Description	Material	Quantity
1	Cam Base	CK45	1
2	Wear Plate	St42 + Synterized 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

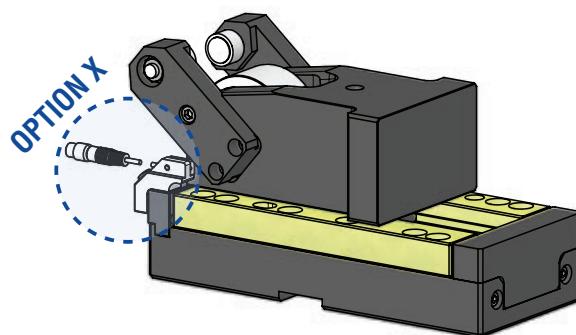
Without Positive Return - OPTION K



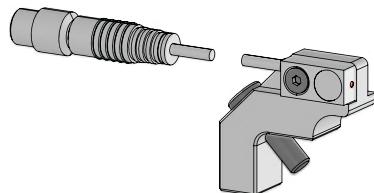
OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
	S	Fs	Ef
CRX03.050	48	76	3,4
CRX03.080	78	76	3,4
CRX03.100	98	76	3,6



With Positive Return - OPTION P

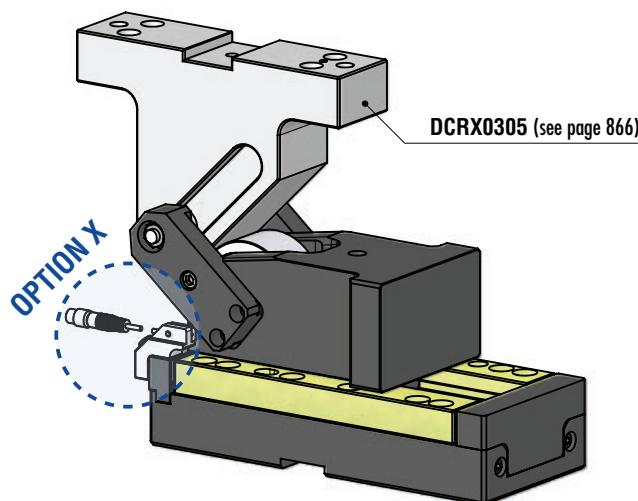


Back Position Check - OPTION X



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

With Driver - OPTION DRIVER



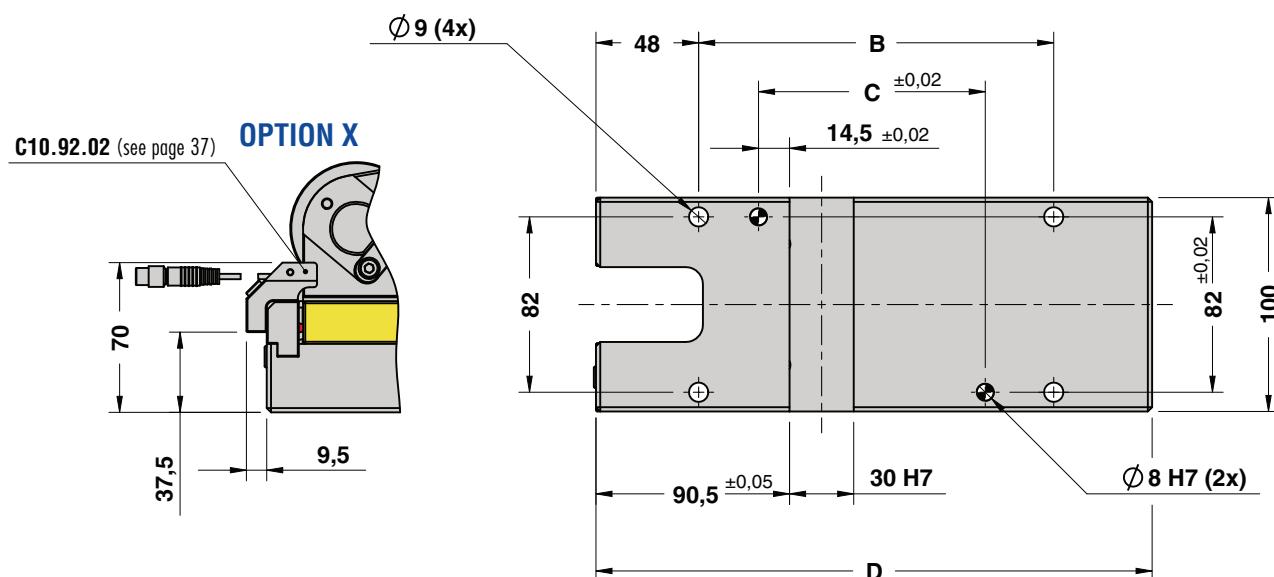
OPTION DRIVER	Work angle (β)
H15	-15°
H10	-10°
H05	-5°
000	0
L05	5°
L10	10°
L15	15°
L20	20°
L25	25°
L30	30°
L35	35°
L40	40°
L45	45°
L50	50°

STOCK	ORDER EXAMPLE	Art.	OPTION K-P	OPTION DRIVER	OPTION X
		CRX03.080	P	000	X

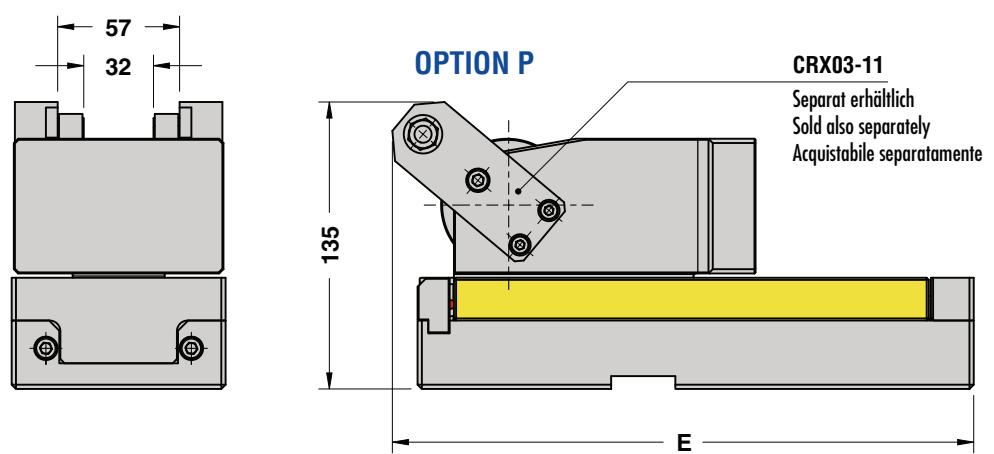
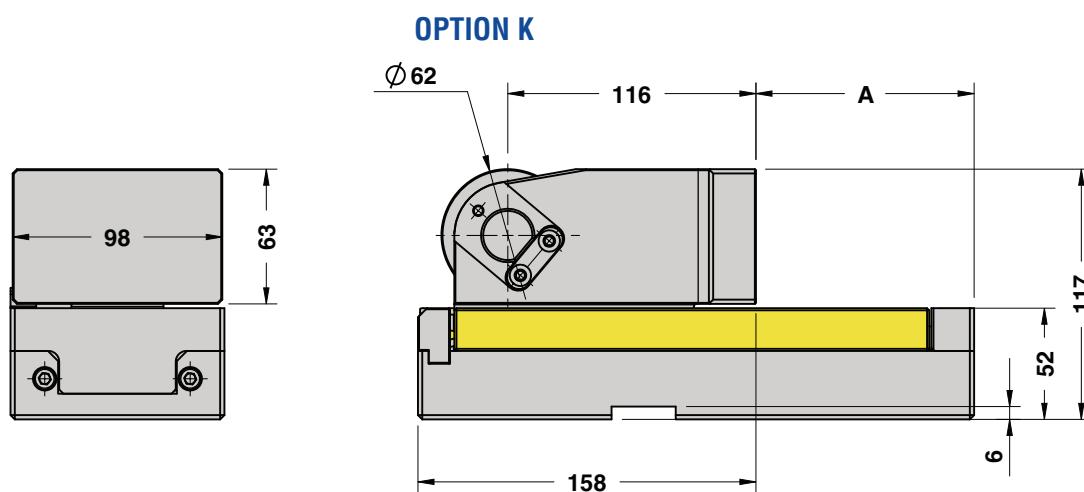
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)				
		S	A	B	C	E
CRX03.050	48	42	116	56	200	212
CRX03.080	78	72	146	86	230	242
CRX03.100	98	102	166	106	260	272



ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

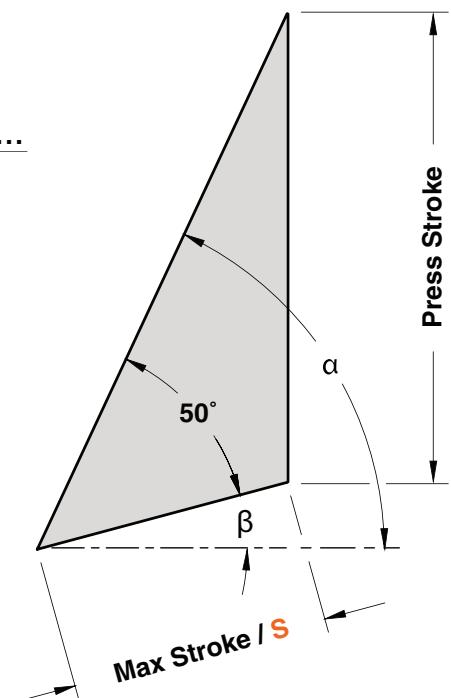
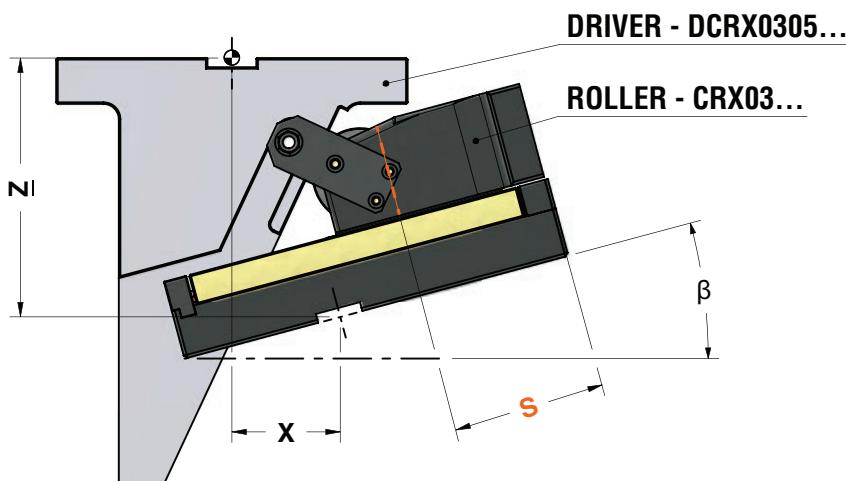
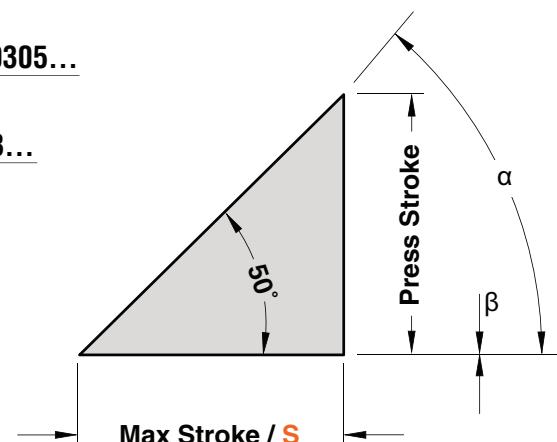
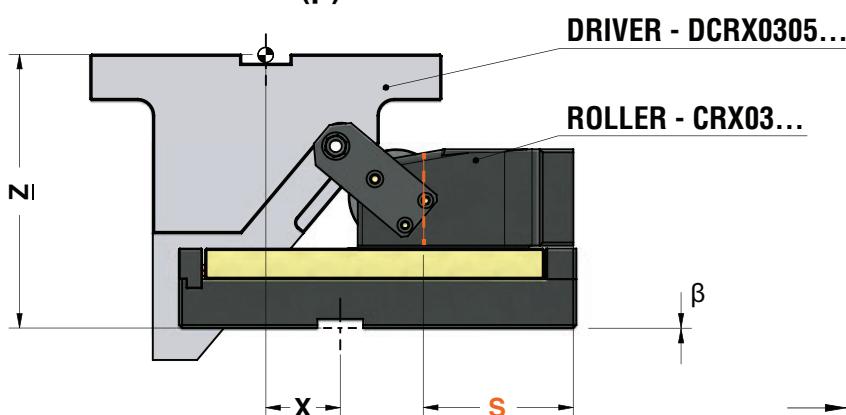
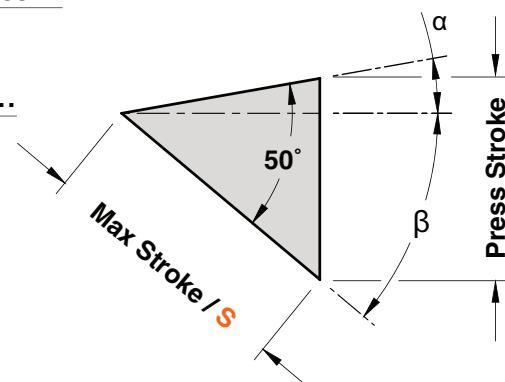
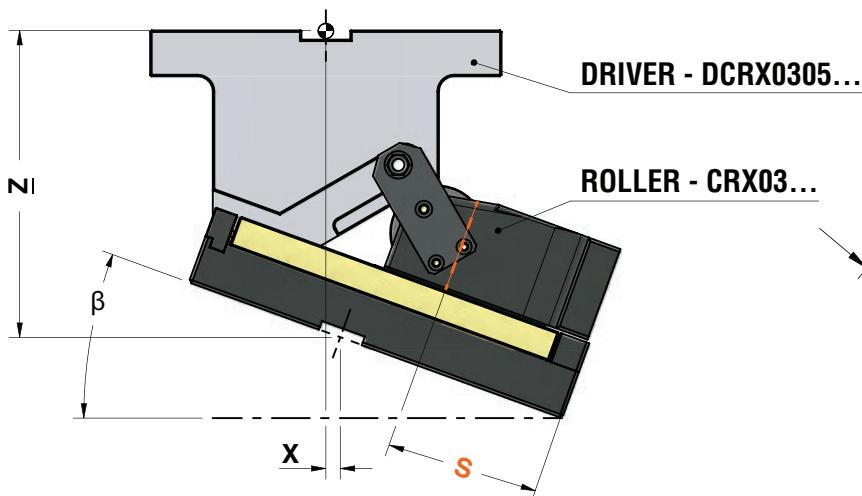


Cam Units CRX





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° 



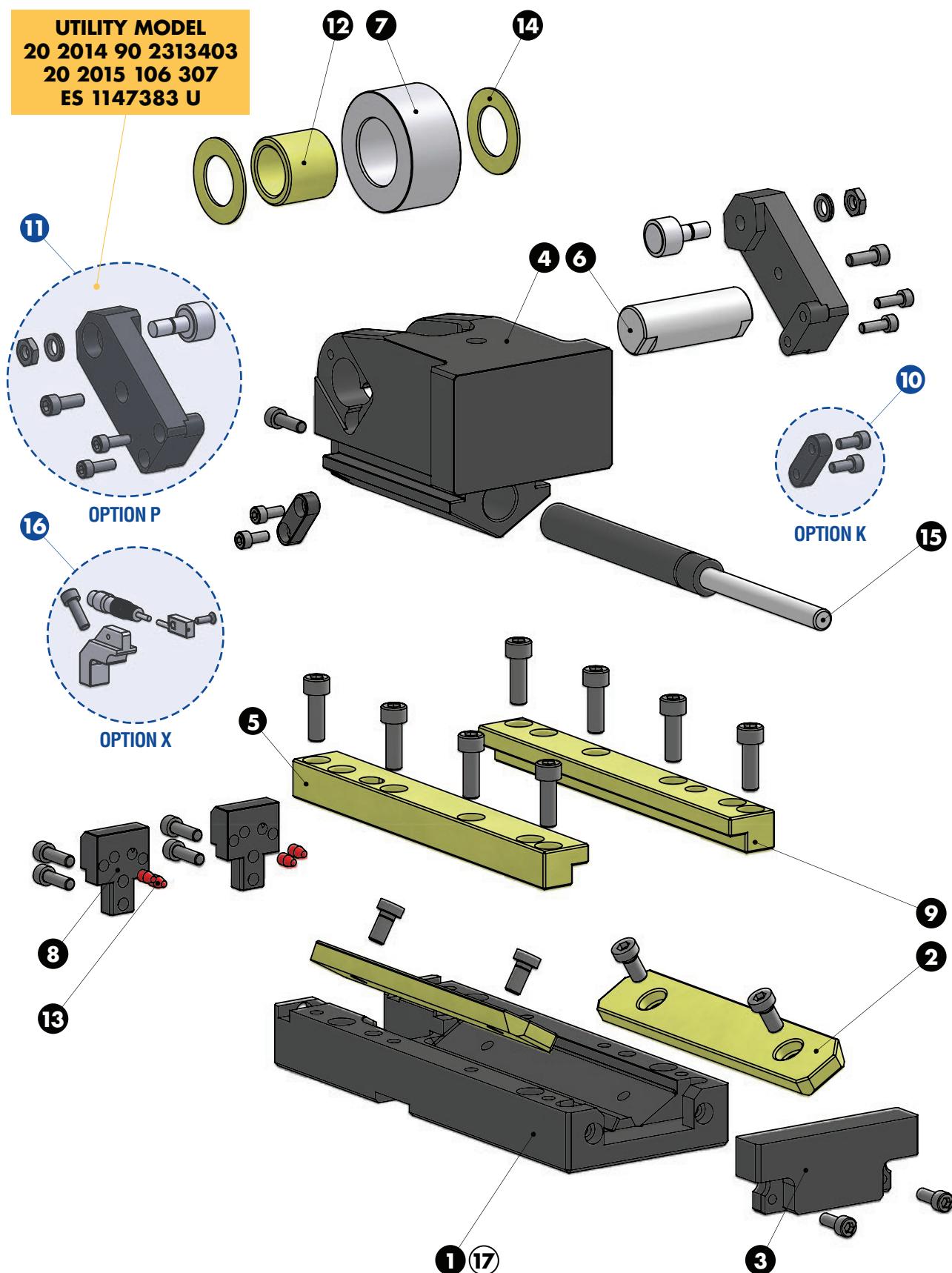
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 866 / Weitere Informationen finden Sie auf der Seite 866 / Per maggiori informazioni consultare la pagina 866

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



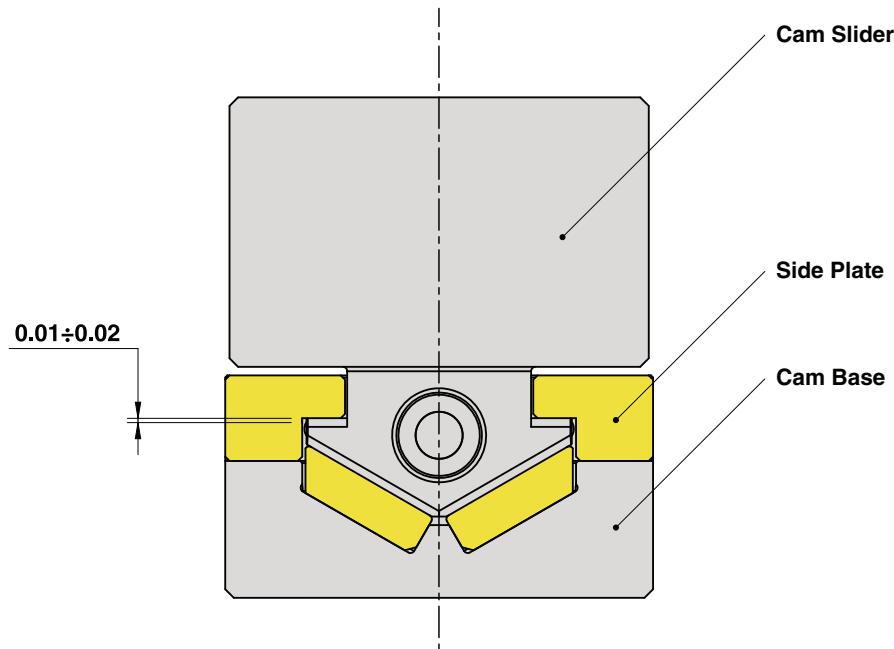
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

SLIDER STRUCTURE AND CLEARANCES



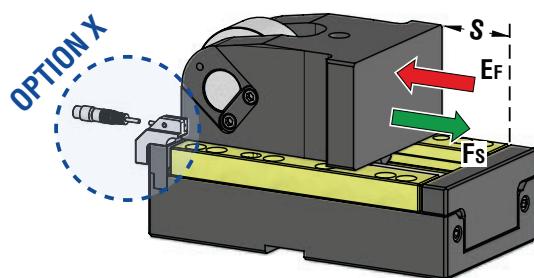
PART LIST

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

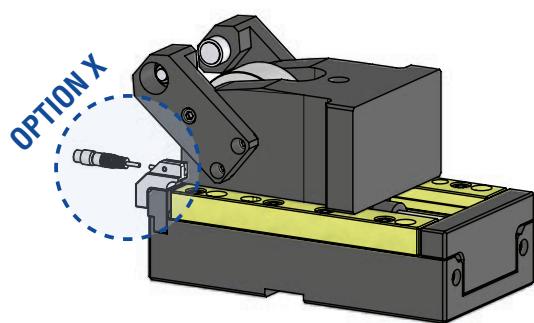
Without Positive Return - OPTION K



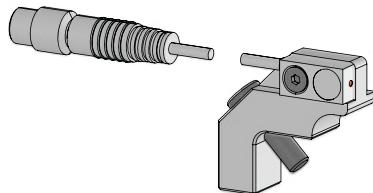
OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
	S	Fs	Ef
CRX05.050	48	142	6,36
CRX05.080	78	142	6,43
CRX05.100	98	142	6,46



With Positive Return - OPTION P

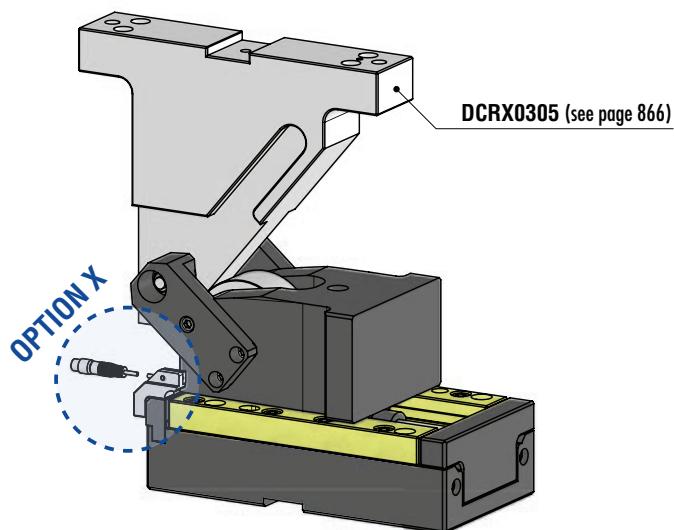


Back Position Check - OPTION X



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

With Driver - OPTION DRIVER



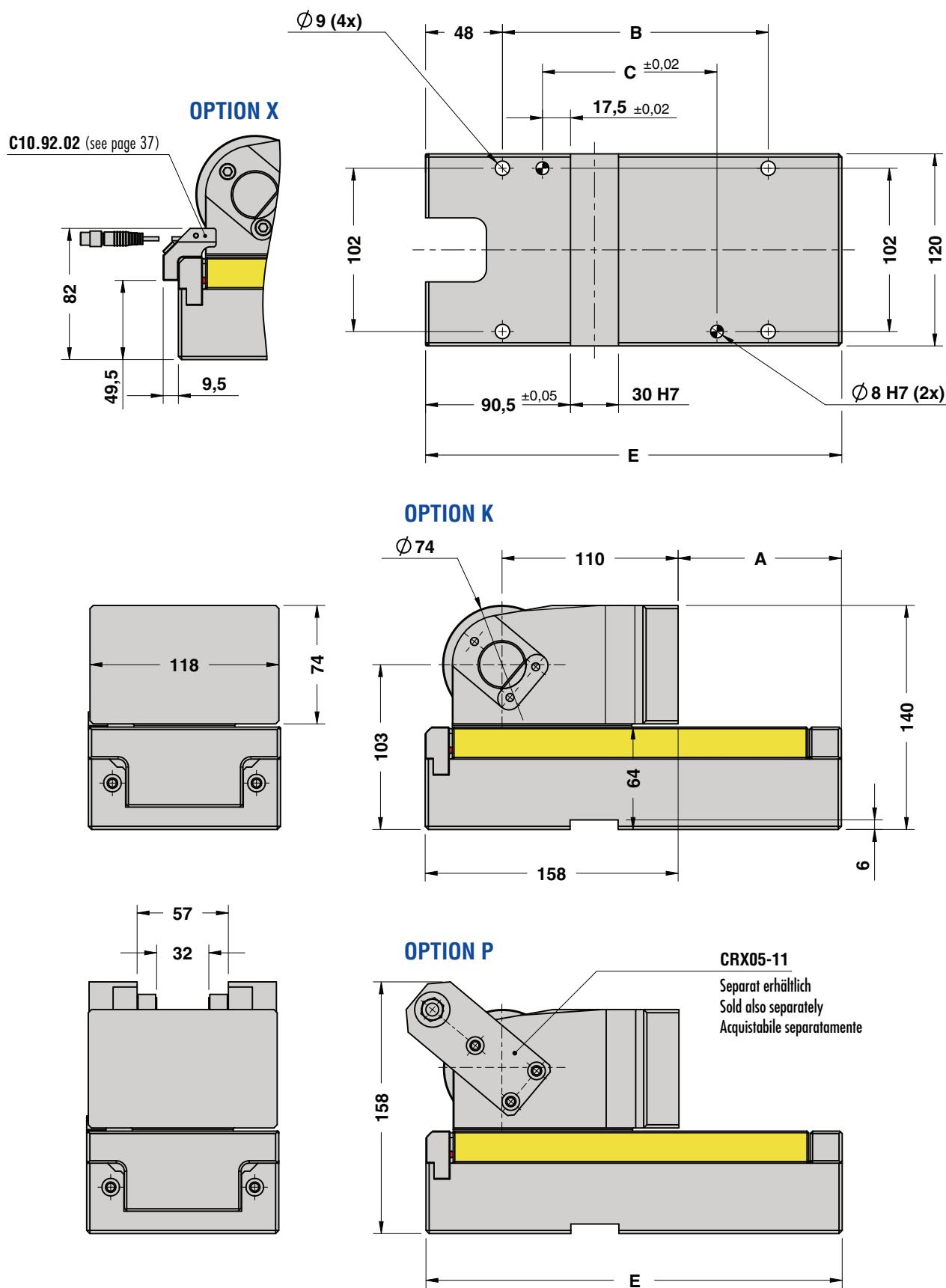
OPTION DRIVER	Work angle (β)
H15	-15°
H10	-10°
H05	-5°
000	0
L05	5°
L10	10°
L15	15°
L20	20°
L25	25°
L30	30°
L35	35°
L40	40°
L45	45°
L50	50°

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	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

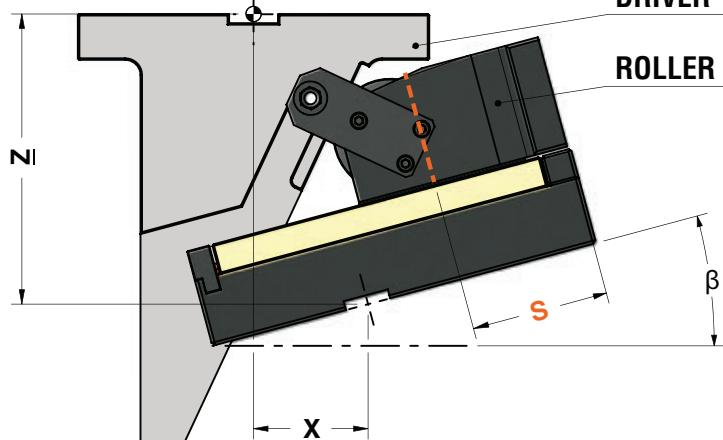


ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



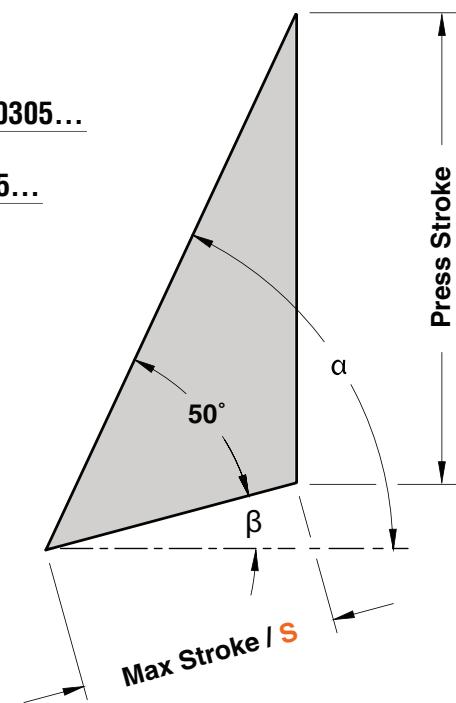
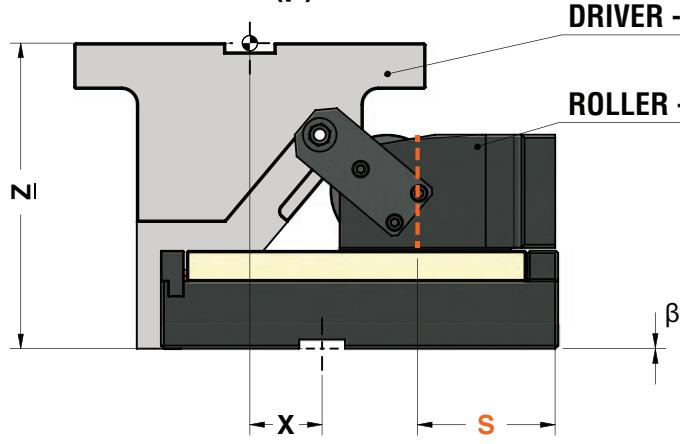


ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

WORK ANGLE (β) FROM -5° TO -15° 

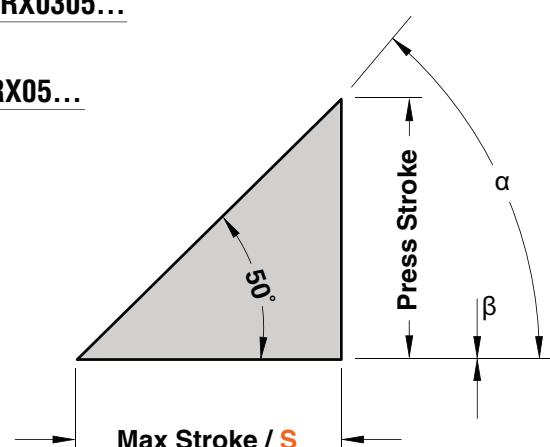
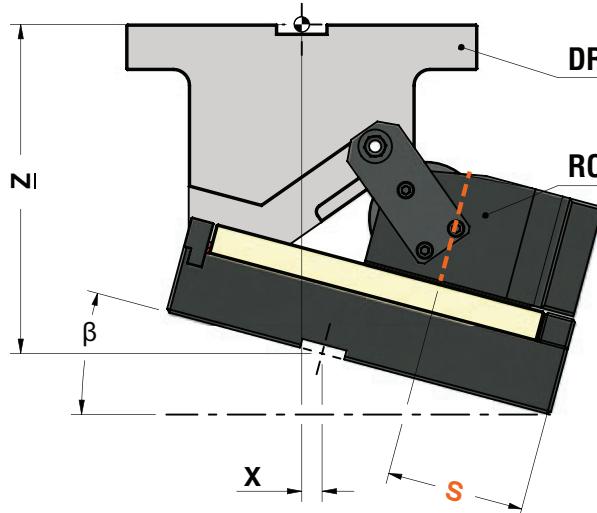
DRIVER - DCRX0305...

ROLLER - CRX05...

WORK ANGLE (β) = 0° 

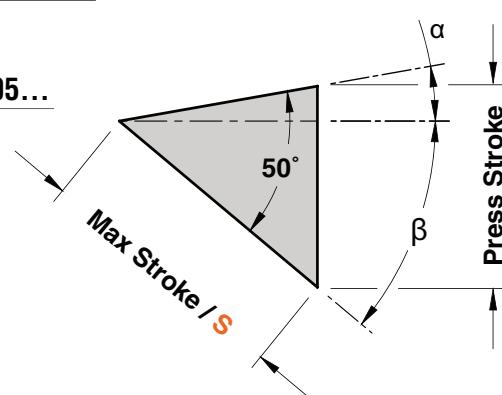
DRIVER - DCRX0305...

ROLLER - CRX05...

WORK ANGLE (β) FROM 5° TO 50° 

DRIVER - DCRX0305...

ROLLER - CRX05...





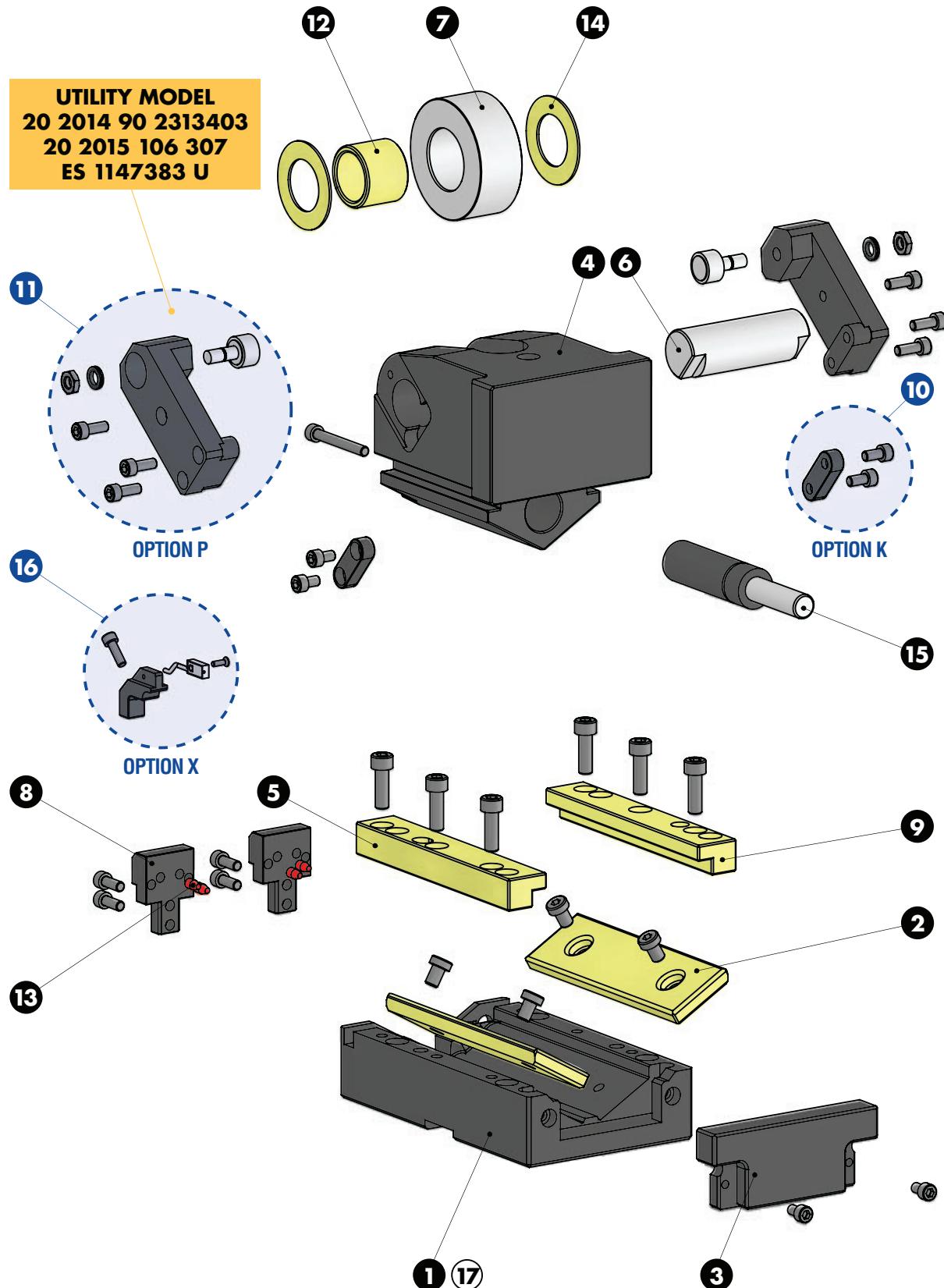
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 846 / Weitere Informationen finden Sie auf der Seite 846 / Per maggiori informazioni consultare la pagina 846

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



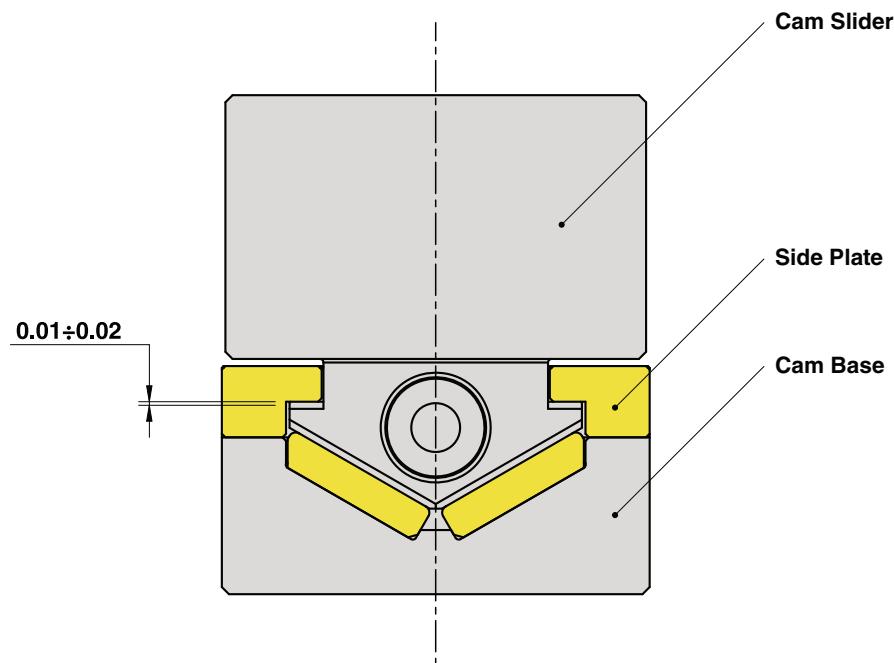
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

SLIDER STRUCTURE AND CLEARANCES



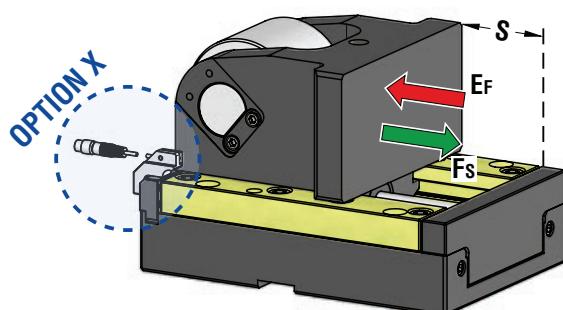
PART LIST

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

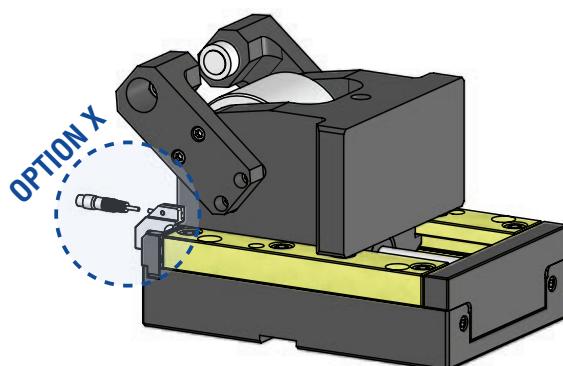
Without Positive Return - OPTION K



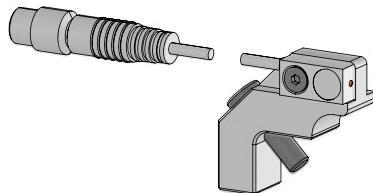
OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
	S	Fs	E_F
CRX15.050	48	166	6,45
CRX15.080	78	166	6,57
CRX15.100	98	166	6,61



With Positive Return - OPTION P

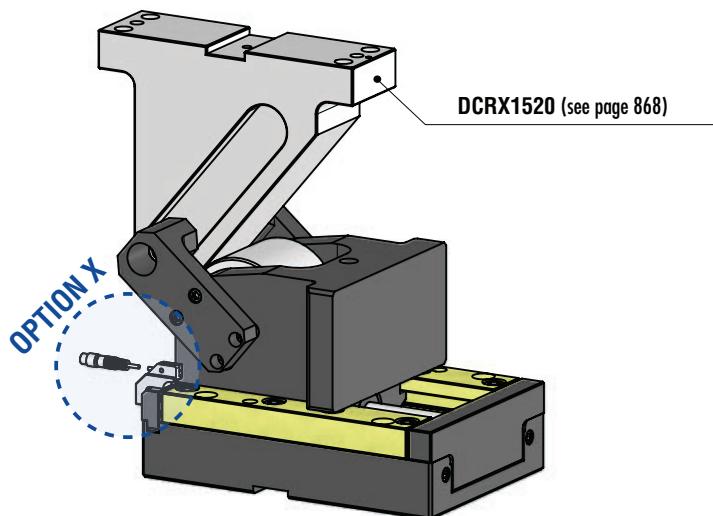


Back Position Check - OPTION X



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

With Driver - OPTION DRIVER

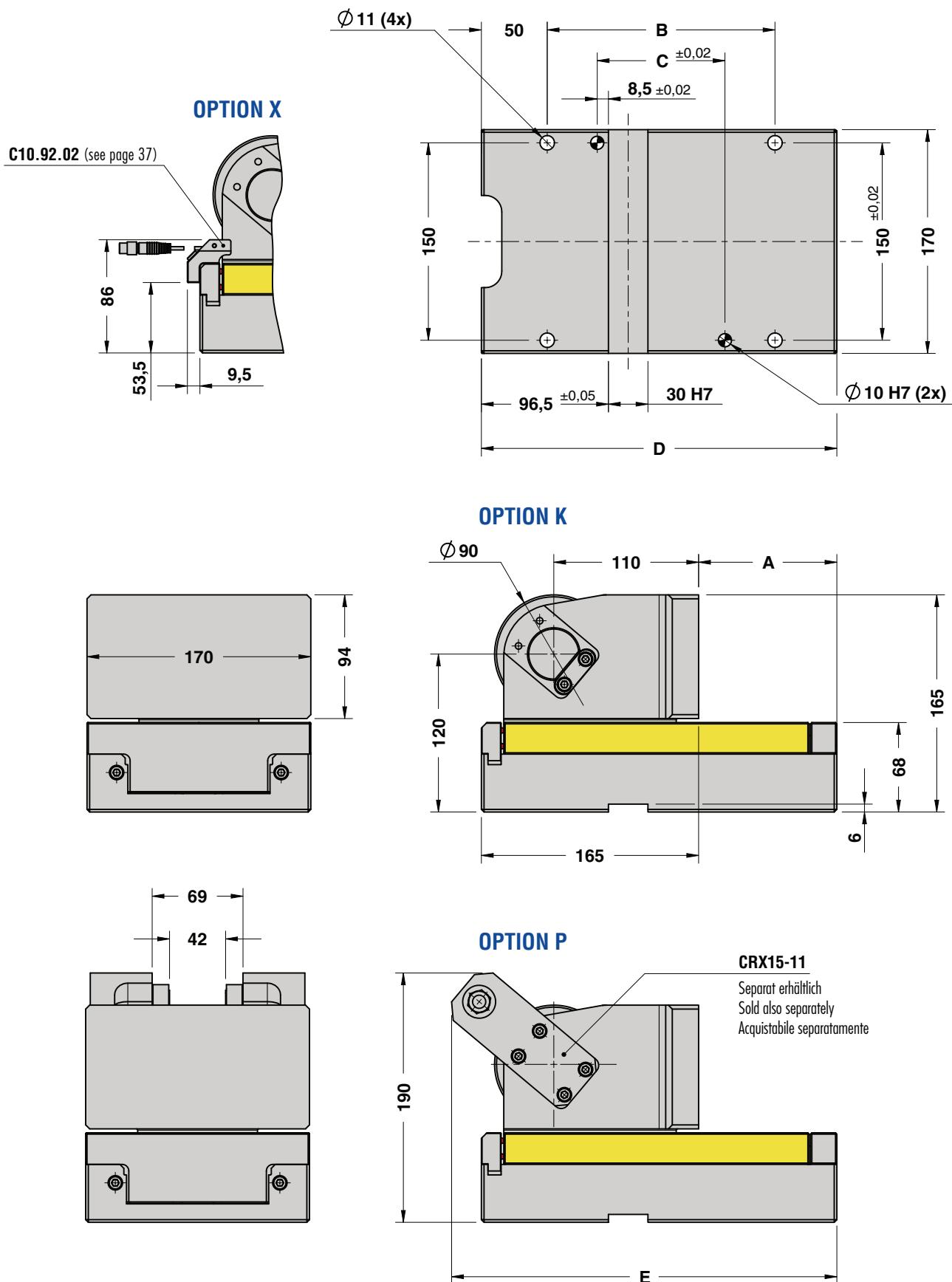


OPTION DRIVER	Work angle (β)
H15	-15°
H10	-10°
H05	-5°
000	0
L05	5°
L10	10°
L15	15°
L20	20°
L25	25°
L30	30°
L35	35°
L40	40°
L45	45°
L50	50°

STOCK	ORDER EXAMPLE 	Art.	Stroke = 80	OPTION K-P	OPTION DRIVER	OPTION X
		CRX15	080	P	000	X

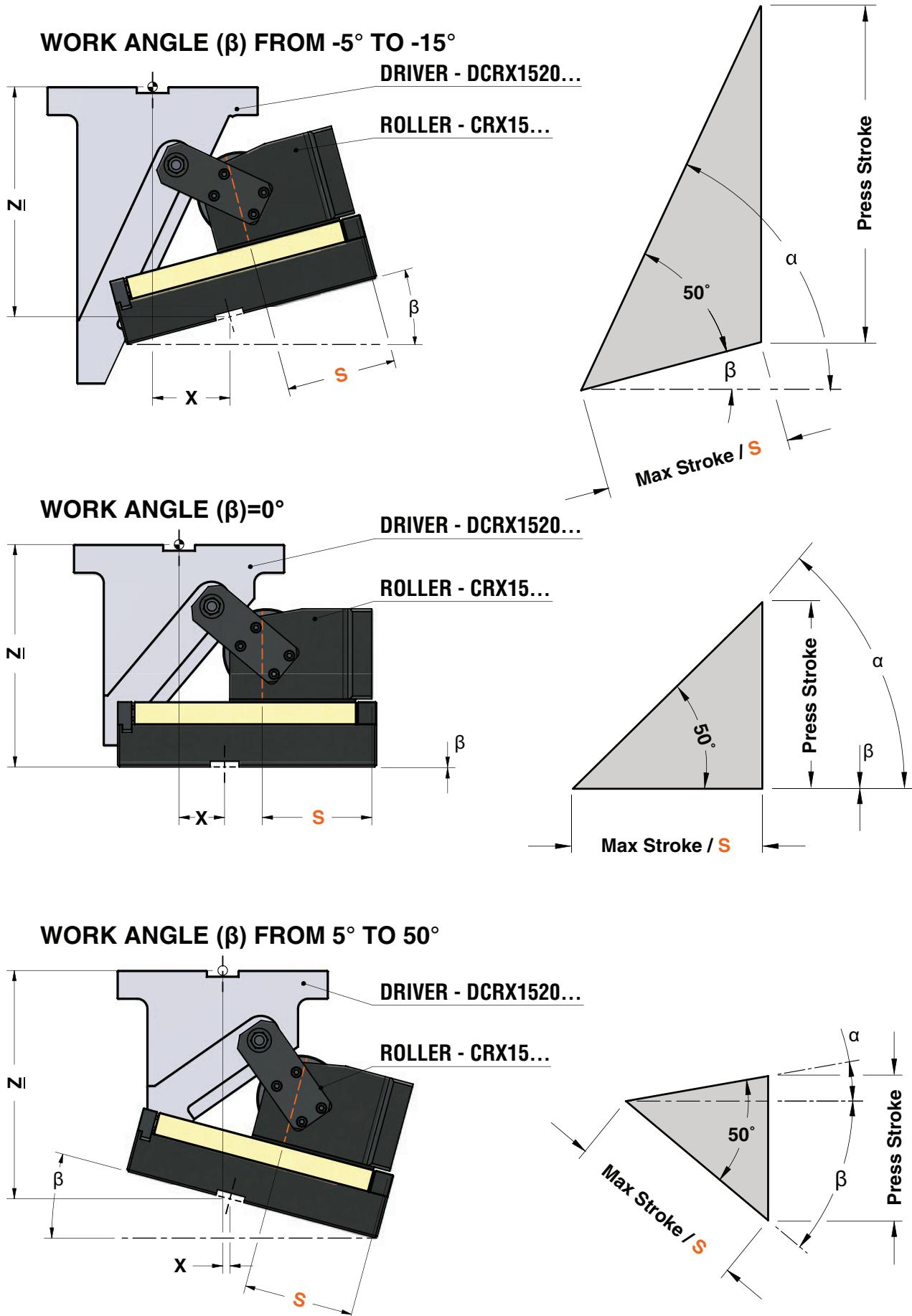
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)					
		S	A	B	C	D	E
CRX15.050	48	55	123	47	220	243	
CRX15.080	78	85	153	77	250	273	
CRX15.100	98	105	173	97	270	293	

ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





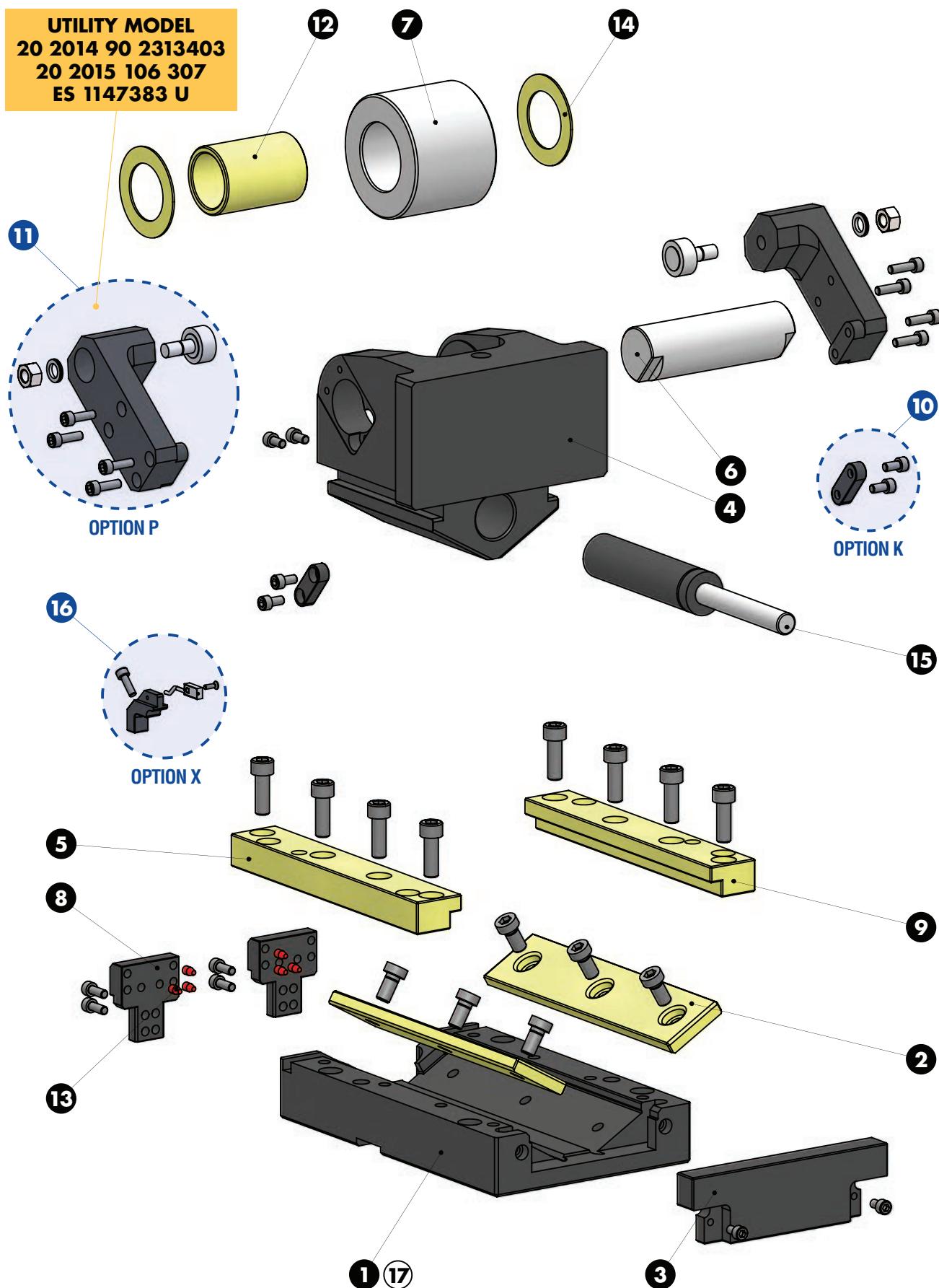
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

*For more info see page 868 / Weitere Informationen finden Sie auf der Seite 868 / Per maggiori informazioni consultare la pagina 868

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



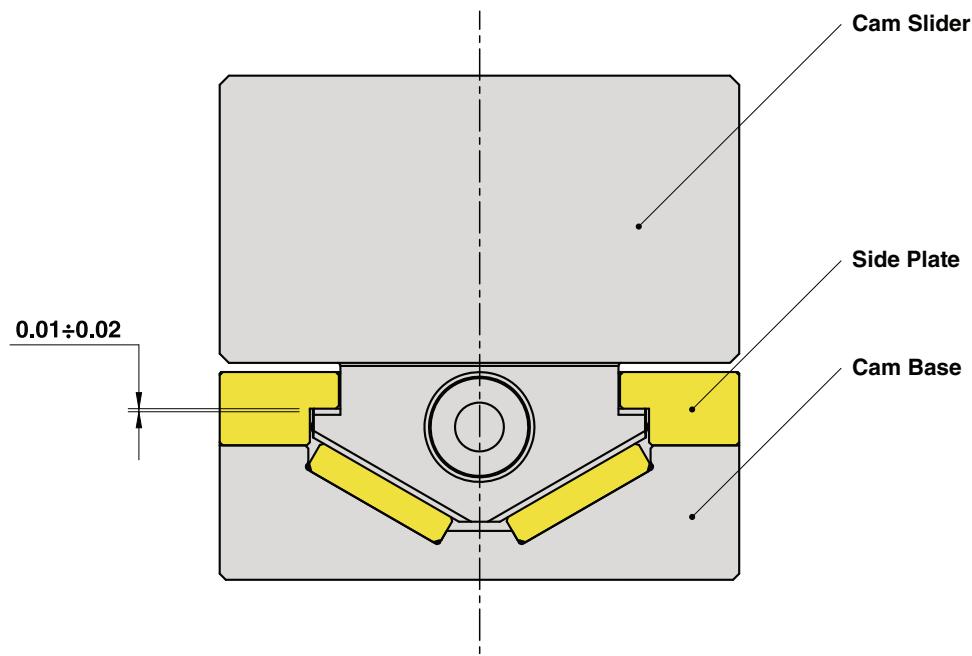
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

SLIDER STRUCTURE AND CLEARANCES



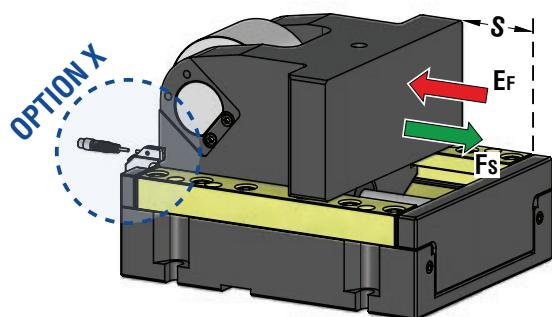
PART LIST

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

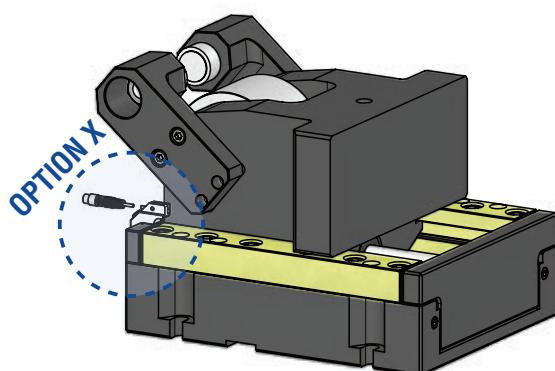
Without Positive Return - OPTION K



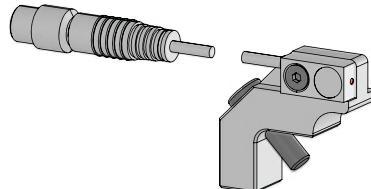
OMCR CODE	Stroke (mm)	Max Work Force (kN)	Extraction Force (kN)
	S	Fs	E_F
CRX20.050	48	258	9,29
CRX20.080	78	258	9,36
CRX20.100	98	258	9,38



With Positive Return - OPTION P

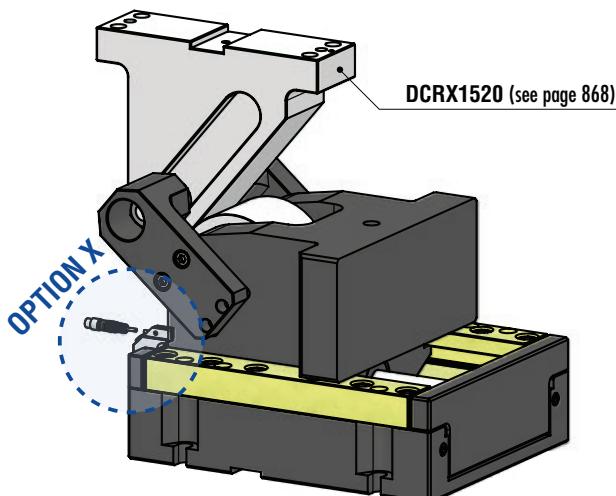


Back Position Check - OPTION X



Montable on right or left side
auf rechte bzw. linke Seite montierbar
Montabile sul lato destro e sinistro

With Driver - OPTION DRIVER



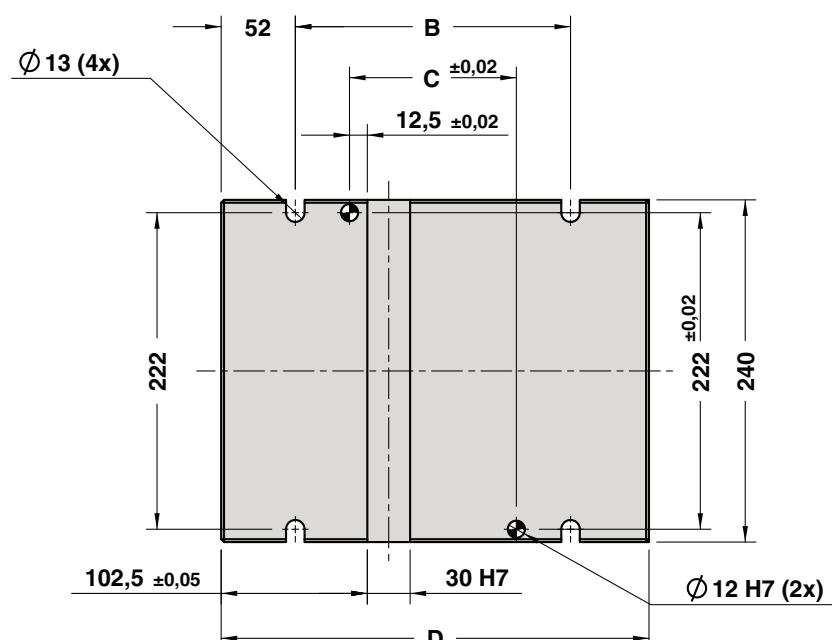
OPTION DRIVER	Work angle (β)
H15	-15°
H10	-10°
H05	-5°
000	0
L05	5°
L10	10°
L15	15°
L20	20°
L25	25°
L30	30°
L35	35°
L40	40°
L45	45°
L50	50°

STOCK	ORDER EXAMPLE	Art.	Stroke = 80	OPTION K-P	OPTION DRIVER	OPTION X
		CRX20	080	P	000	X

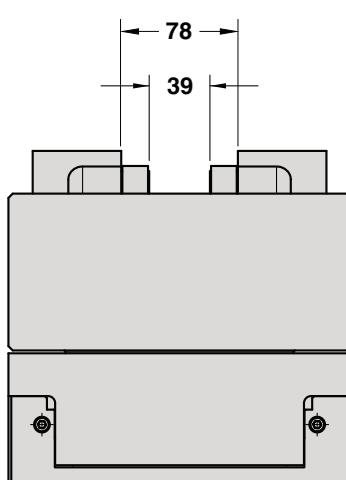
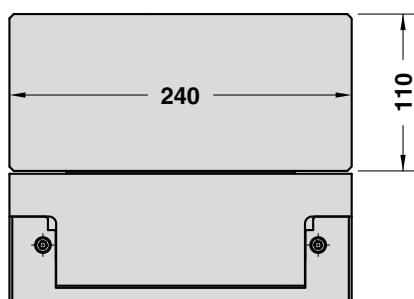
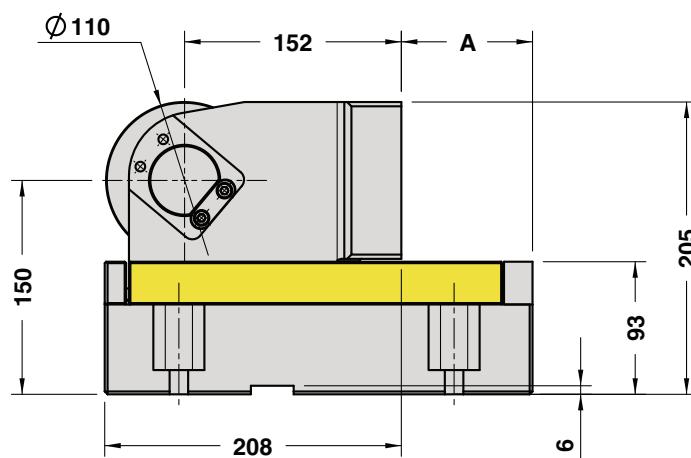
OMCR CODE	Stroke (mm)	Overall Dimensions (mm)					
		S	A	B	C	D	E
CRX20.050	48	42	143	67	250	290	
CRX20.080	78	72	173	97	280	320	
CRX20.100	98	92	193	117	300	340	



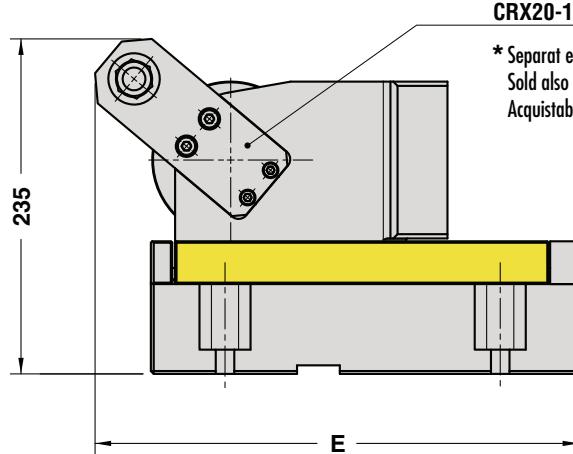
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO



OPTION K



OPTION P



CRX20-11*

* Separat erhältlich
Sold also separately
Acquistabile separatamente

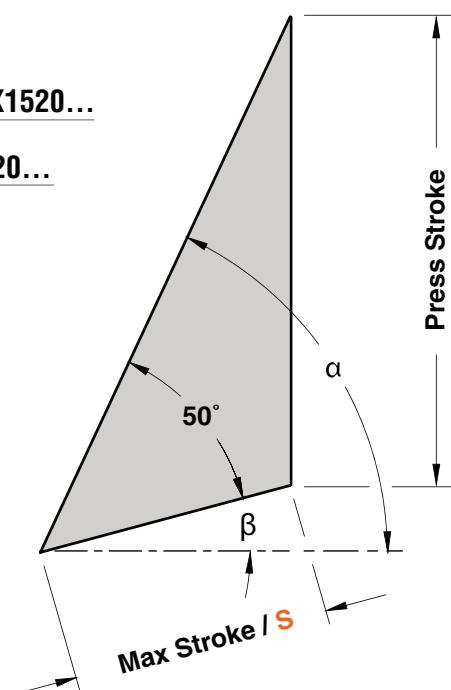
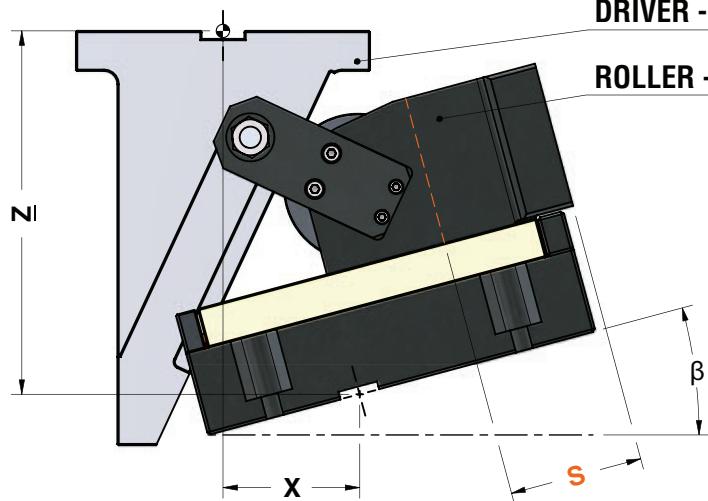


ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

WORK ANGLE (β) FROM -5° TO -15°

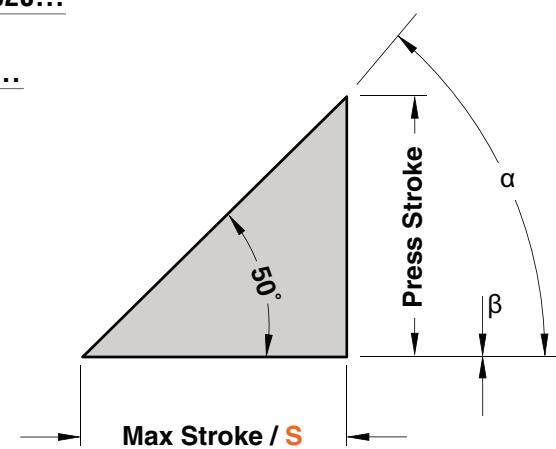
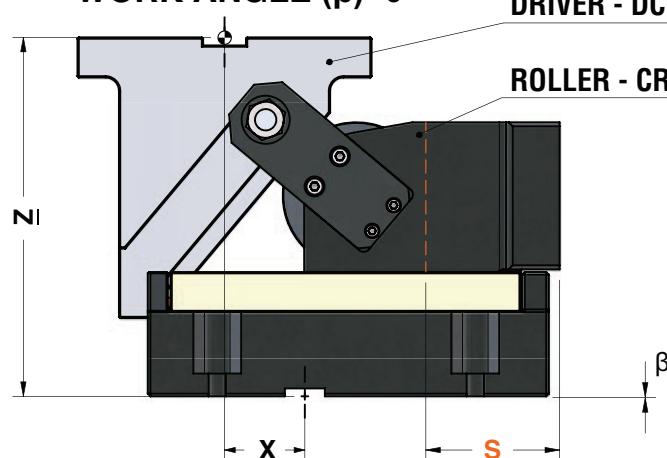
DRIVER - DCRX1520...

ROLLER - CRX20...

WORK ANGLE (β) = 0°

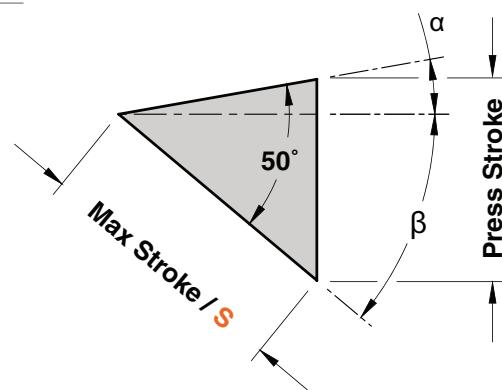
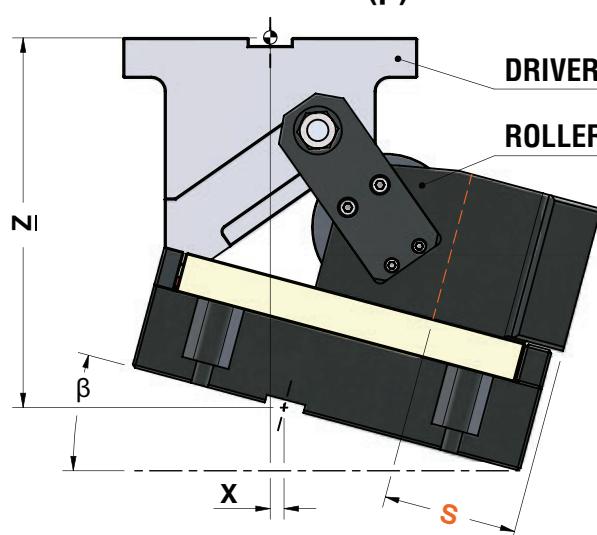
DRIVER - DCRX1520...

ROLLER - CRX20...

WORK ANGLE (β) FROM 5° TO 50°

DRIVER - DCRX1520...

ROLLER - CRX20...



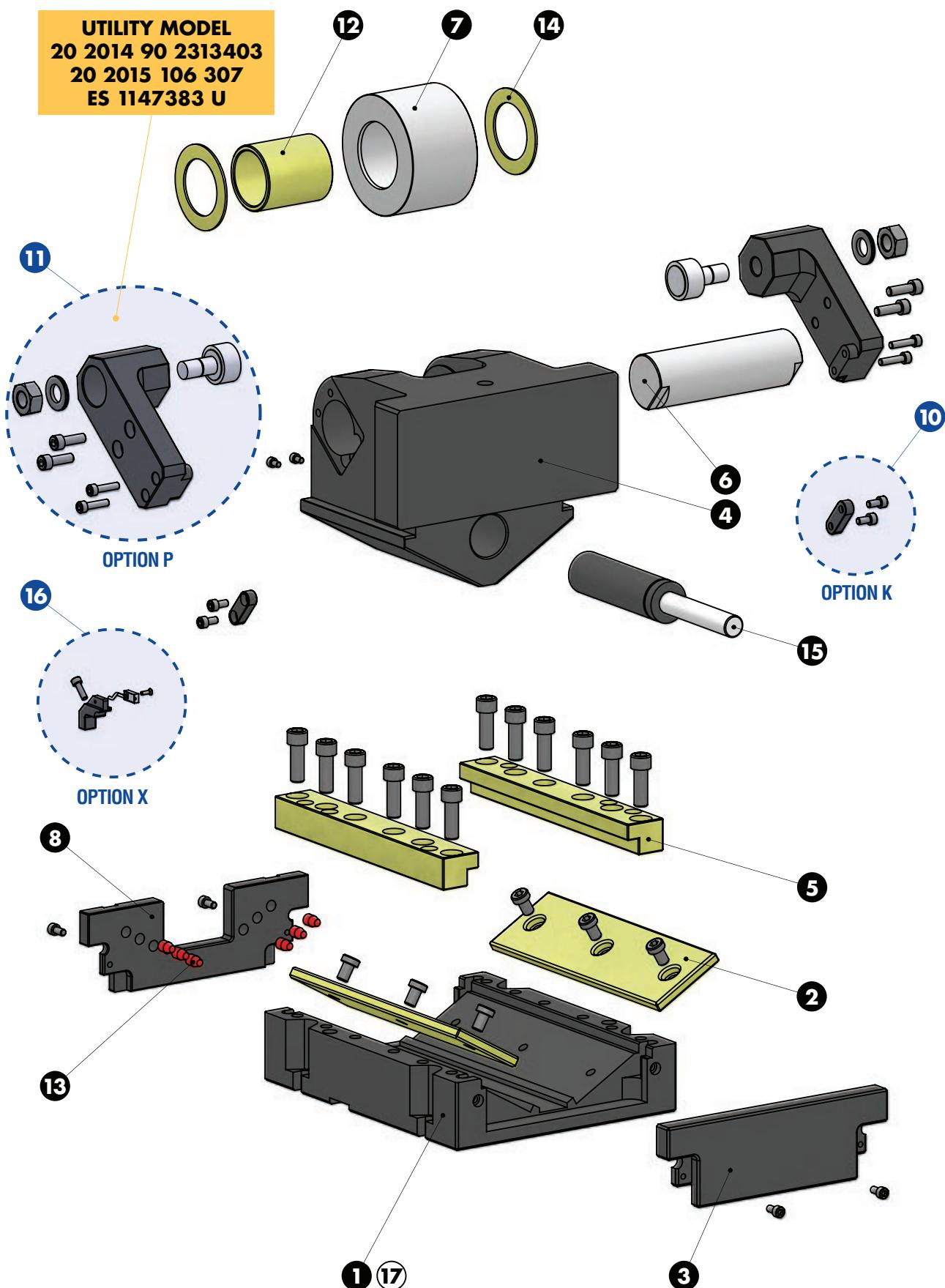


ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

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



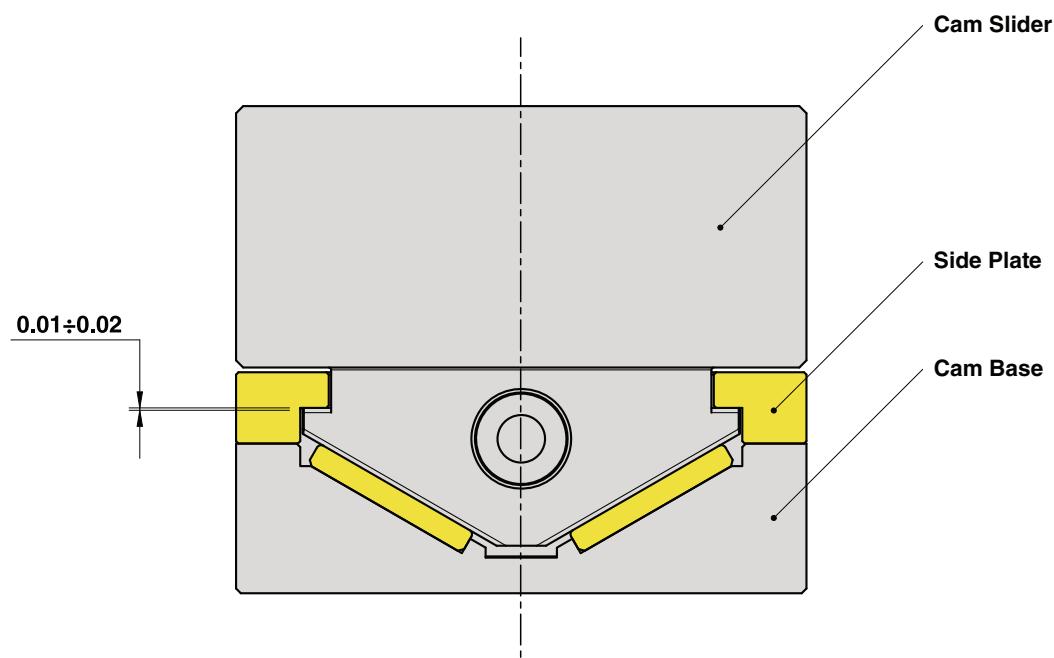
ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO





ROLLER CAM UNIT - ROLLENSCHIEBER - CAMMA A RULLO

SLIDER STRUCTURE AND CLEARANCES

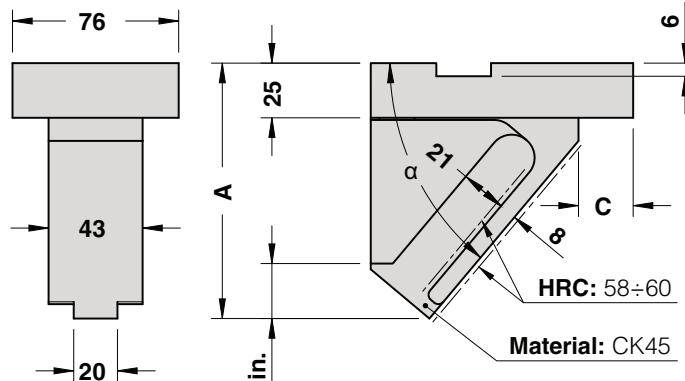
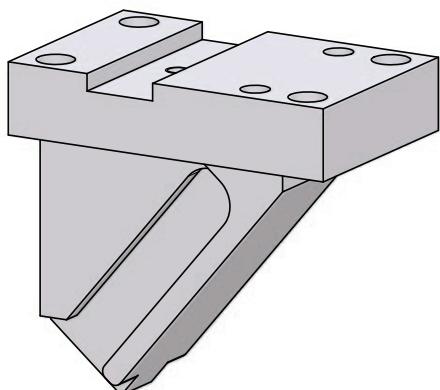


PART LIST

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



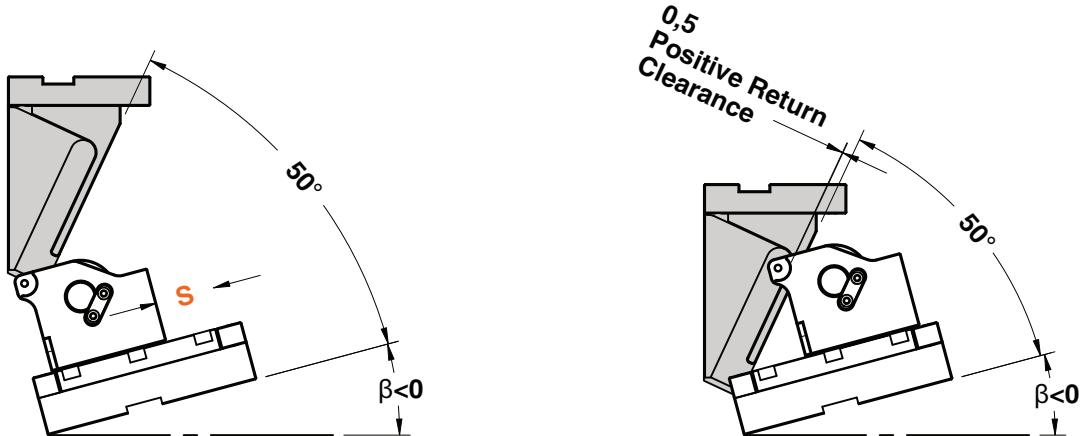
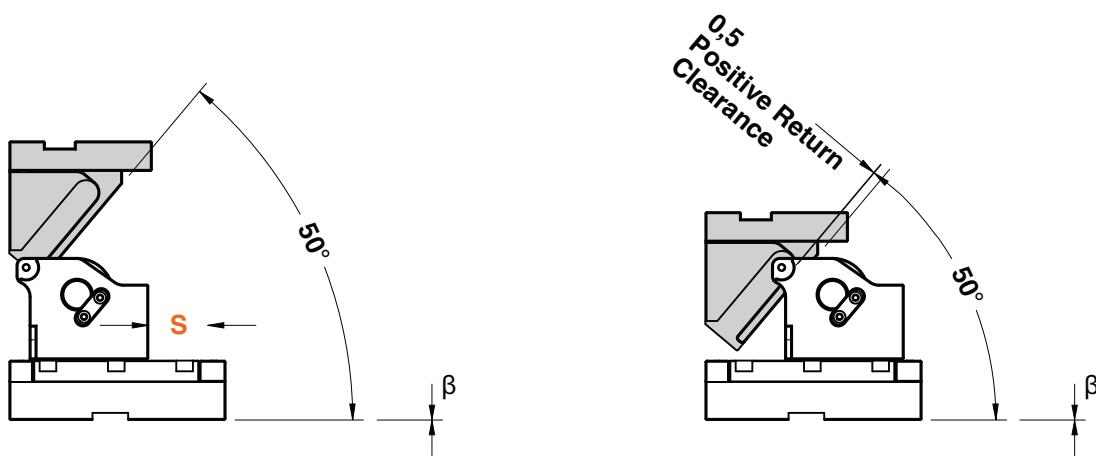
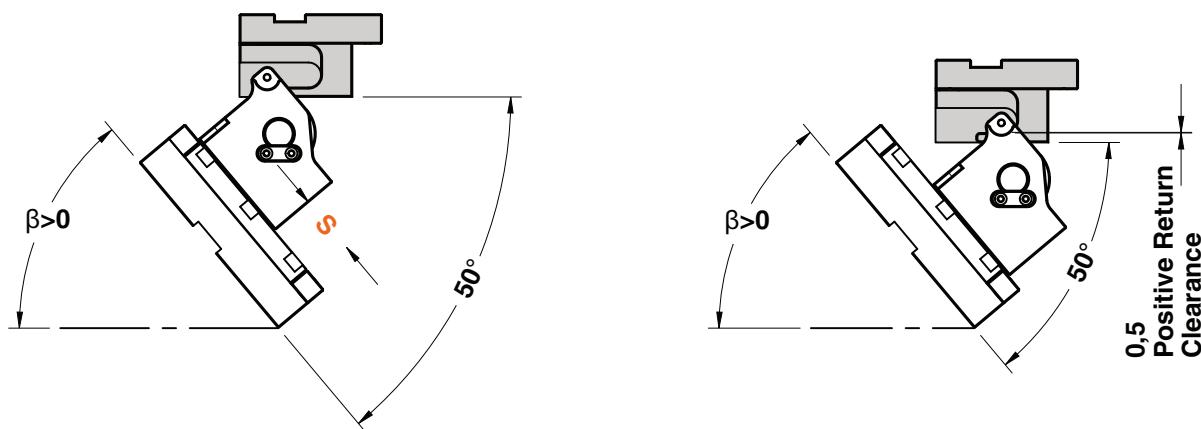
ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO



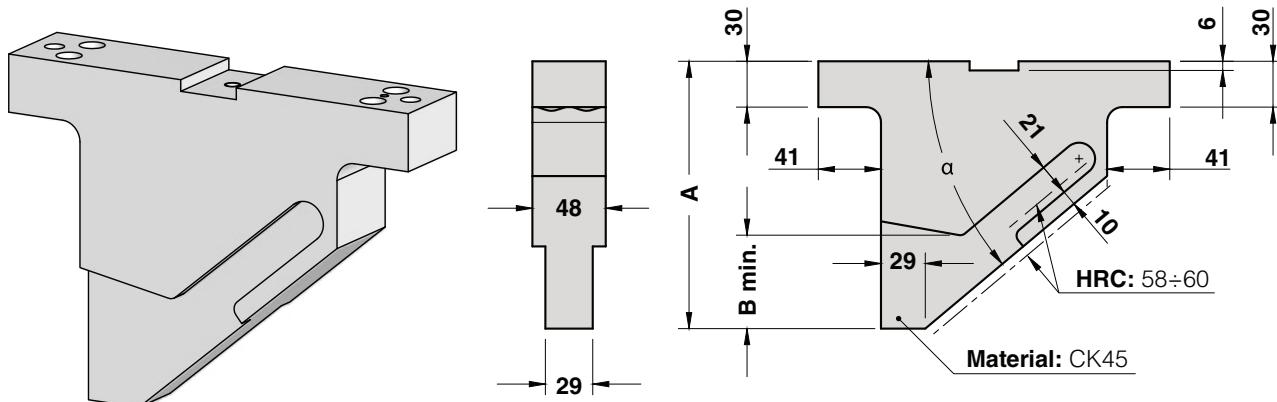
WEB



ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

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



WEB



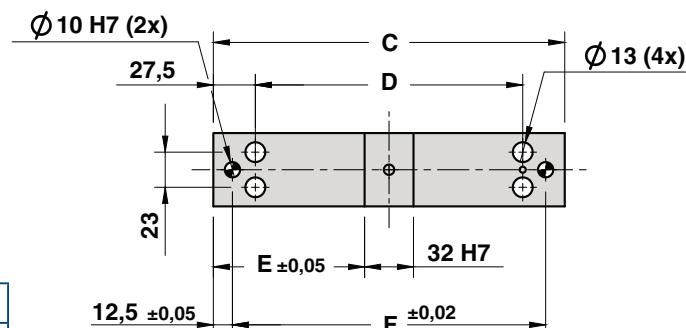
WEB



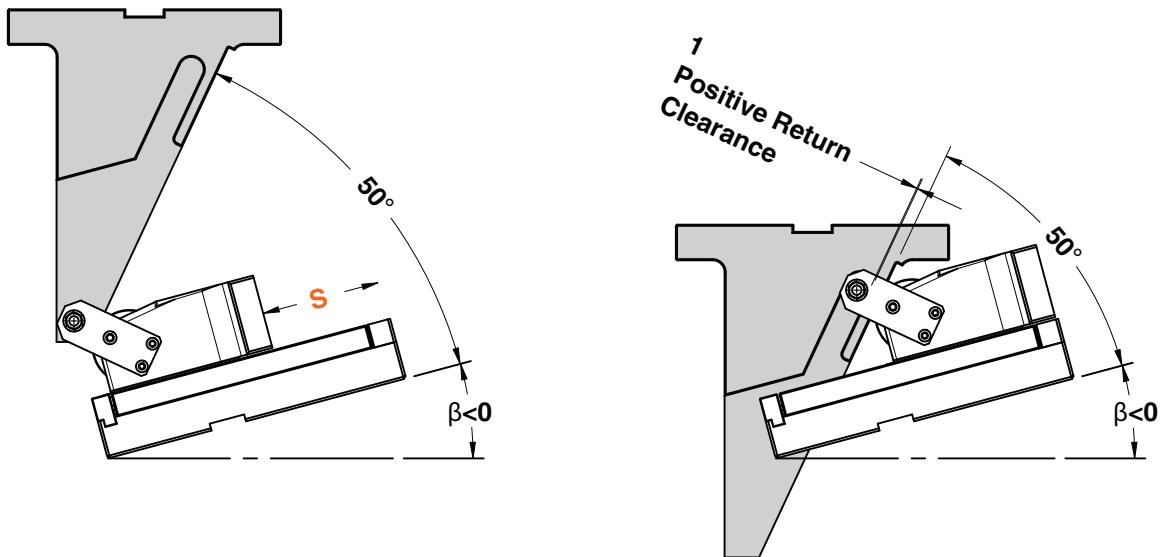
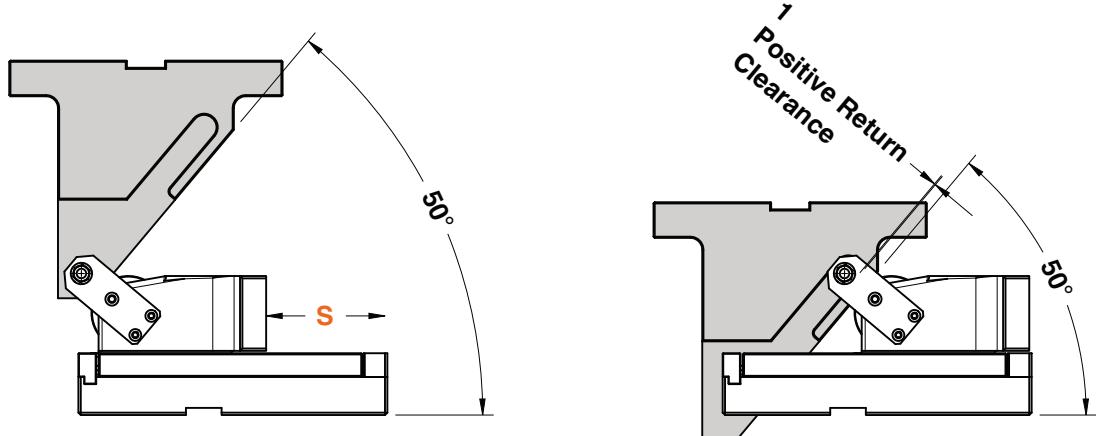
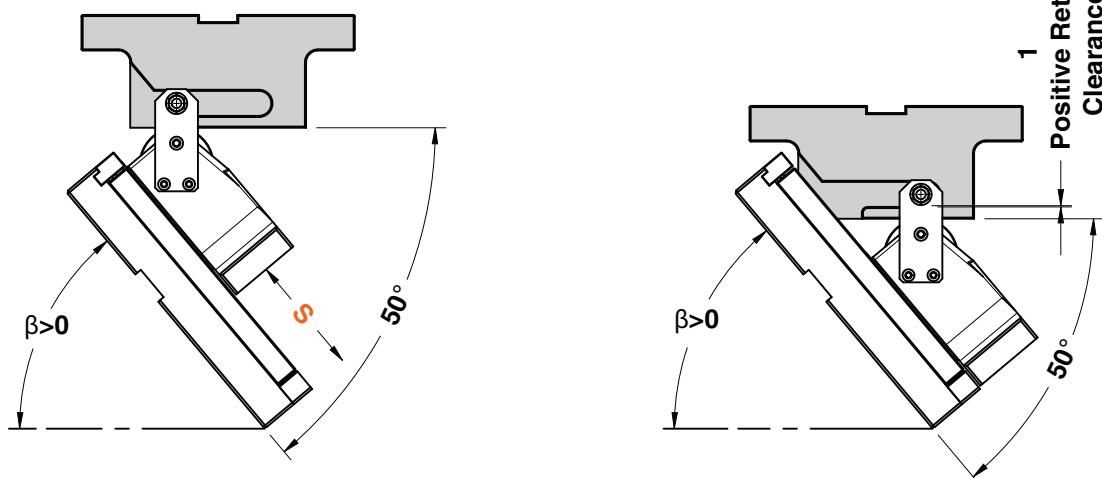
WEB

For driver positioning see pages 842-843 and 848-849
 Positionierung des Treibers siehe Seiten 842-843 und 848-849
 Per posizionamento cuneo vedi pagine 842-843 e 848-849

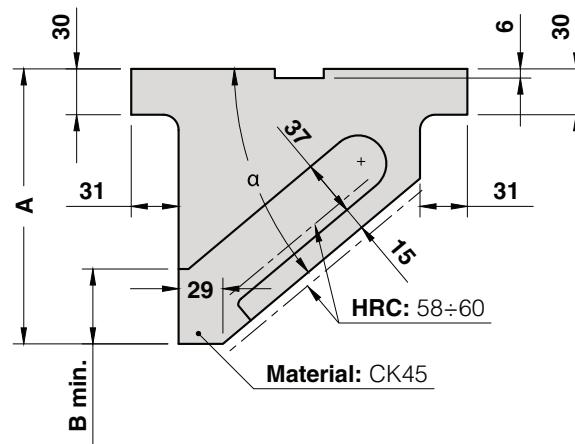
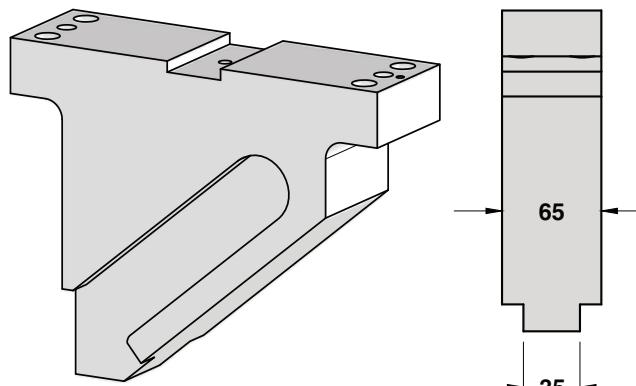
STOCK	ORDER EXAMPLE	Art.	Work angle = 0°
		DCRX0305.50	000



OMCR CODE	ROLLER CAM MODEL	Stroke (mm)	Work Angle	Overall Dimensions (mm)							
				S	β	α	A	B min.	C	D	E
DCRX0305.50.H15	CRX03.050	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	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	

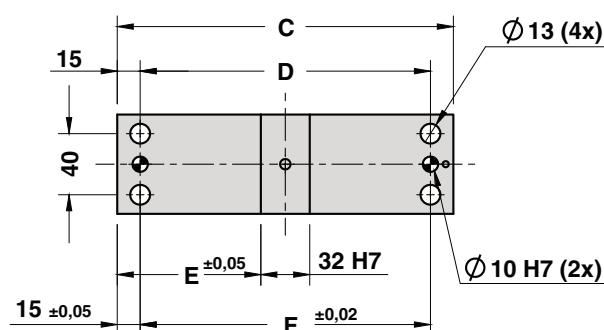

ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO
FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM -5° TO -15°

FUNCTIONING EXAMPLE FOR WORK ANGLE ($\beta=0^\circ$)

FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM 5° TO 50°


ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO



For driver positioning see pages 854-855 and 860-861
Positionierung des Treibers siehe Seiten 854-855 und 860-861
Per posizionamento cuneo vedi pagine 854-855 e 860-861

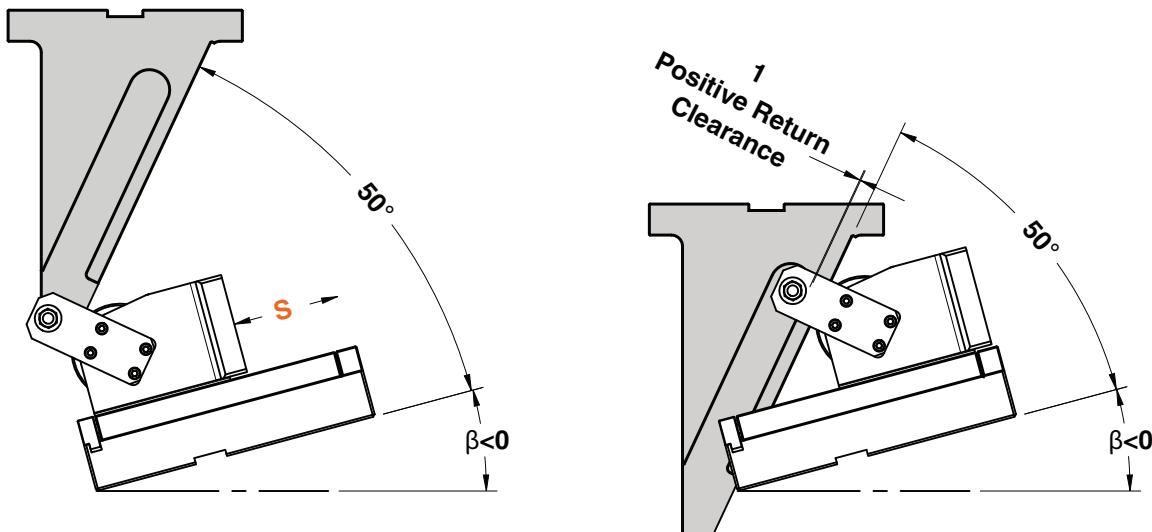
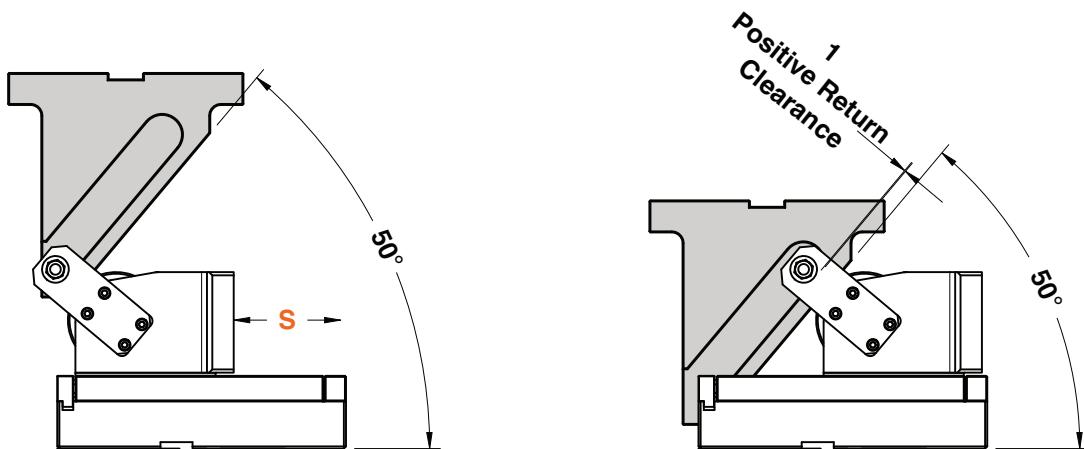
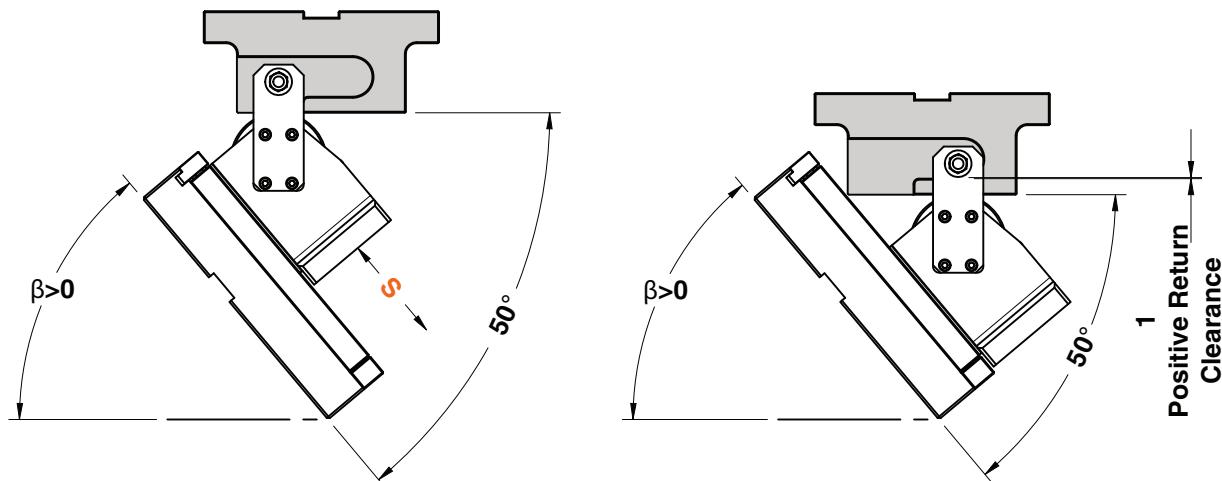
STOCK	ORDER EXAMPLE	Art.	Work angle = 0°
		DCRX1520.50	000



OMCR CODE	ROLLER CAM MODEL	Stroke (mm)	Work Angle	Overall Dimensions (mm)							
				S	β	α	A	B min.	C	D	E
DCRX1520.50.H15	CRX15.050	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	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	



ROLLER CAM DRIVER - TREIBER FÜR ROLLENSCHIEBER - CUNEO PER CAMME A RULLO

FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM -5° TO -15° FUNCTIONING EXAMPLE FOR WORK ANGLE ($\beta=0^\circ$)FUNCTIONING EXAMPLE FOR WORK ANGLE (β) FROM 5° TO 50° 



Cam Units DHC Schieber DHC Unità a Camme DHC



OMCR®
STANDARD DIE COMPONENTS

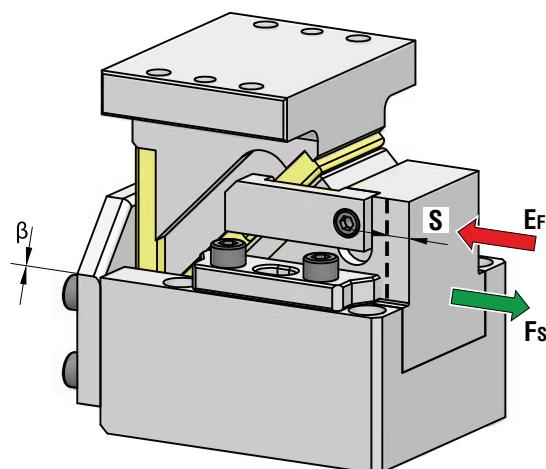
OMCR CODE	Work Angle β	Slider Width (mm)	Closed Cam Height (mm)	Work Area W x H (mm)	Max Work Force with shoulder 10^6 cycles (kN)	Extraction Force (kN)		Page number
						F _s	E _F Spring	
DHC052	0°	52	140	52x65	38	0,62÷0,65	-	872
DHC065	0÷20°	65	160 (00.40÷05.45 / 10.45) 170 (05.70 / 10.70÷20.70)	65x70	44÷48	0,78÷1,02	-	876
DHC100	0÷20°	100	200	100x100	75÷82	-	4,6÷6,1	880
DHC150	0÷20°	150	220 (00.40÷15.45 / 20.45) 230 (15.70 / 20.70)	150x100	120÷127	-	4,6÷6,6	884
DHC200	0°	200	240	200x110	176	-	8,6÷10,1	888
DHC250	0°	250	270	250x130	232	-	8,6÷9,4	892
DHC300	0°	300	270	300x130	272	-	8,6÷9,4	896
DHC400	0°	400	250	400x150	480	-	25,2	900



Optimized logistics for top service



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



OMCR CODE	Work Angle β	Stroke (mm) S	Max Work Force with shoulder (kN) Fs	Extraction Force (kN)
				Ef
DHC052.00.25	0°	25	38	0,62
DHC052.00.40	0°	40	38	0,63
DHC052.00.60	0°	60	38	0,65



WEB



WEB



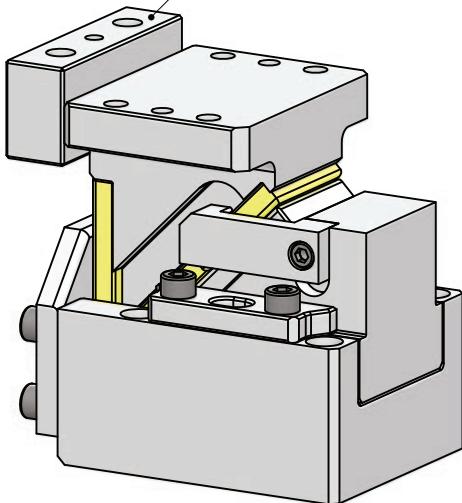
WEB



P.624

C14.25.2538090

Seite 88, page 88, pagina 88



With Key - OPTION K



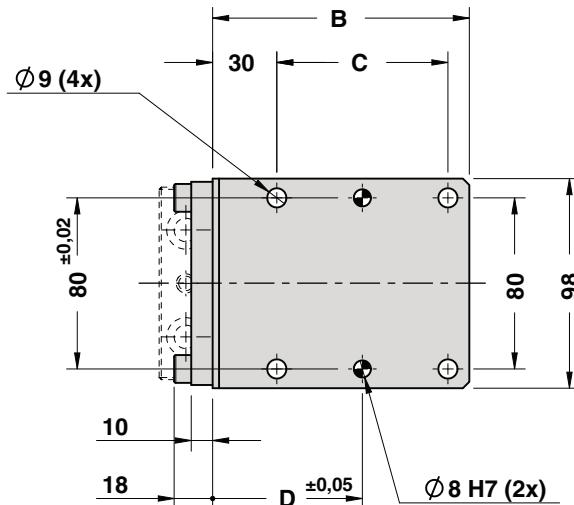
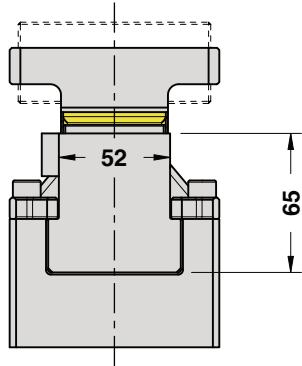
Art.	Work Angle = 0°	Stroke = 40	OPTION K
DHC052	00	40	K

OMCR CODE	Work Angle β	Stroke (mm) S	Overall Dimensions (mm)						
			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



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

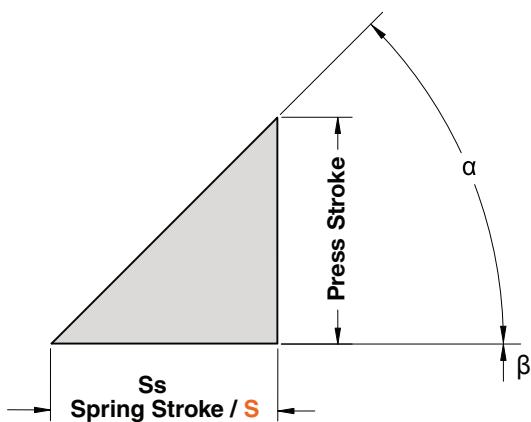
X VIEW



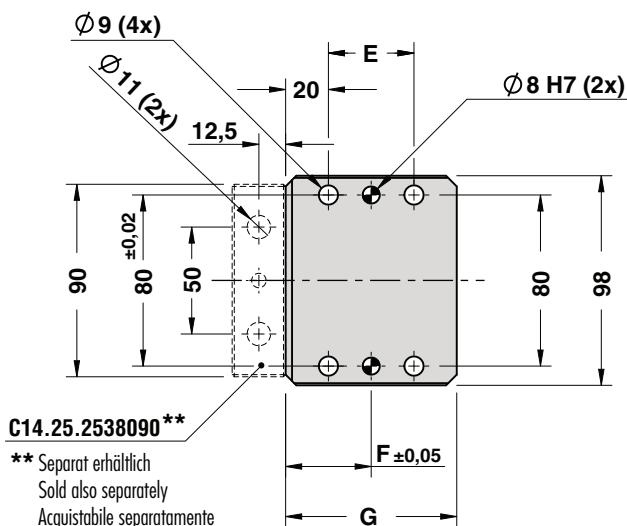
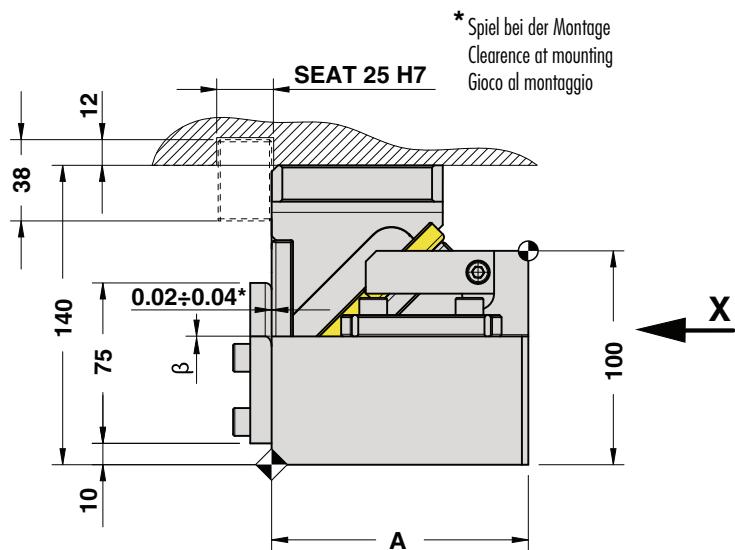
CAM DIAGRAM



WEB

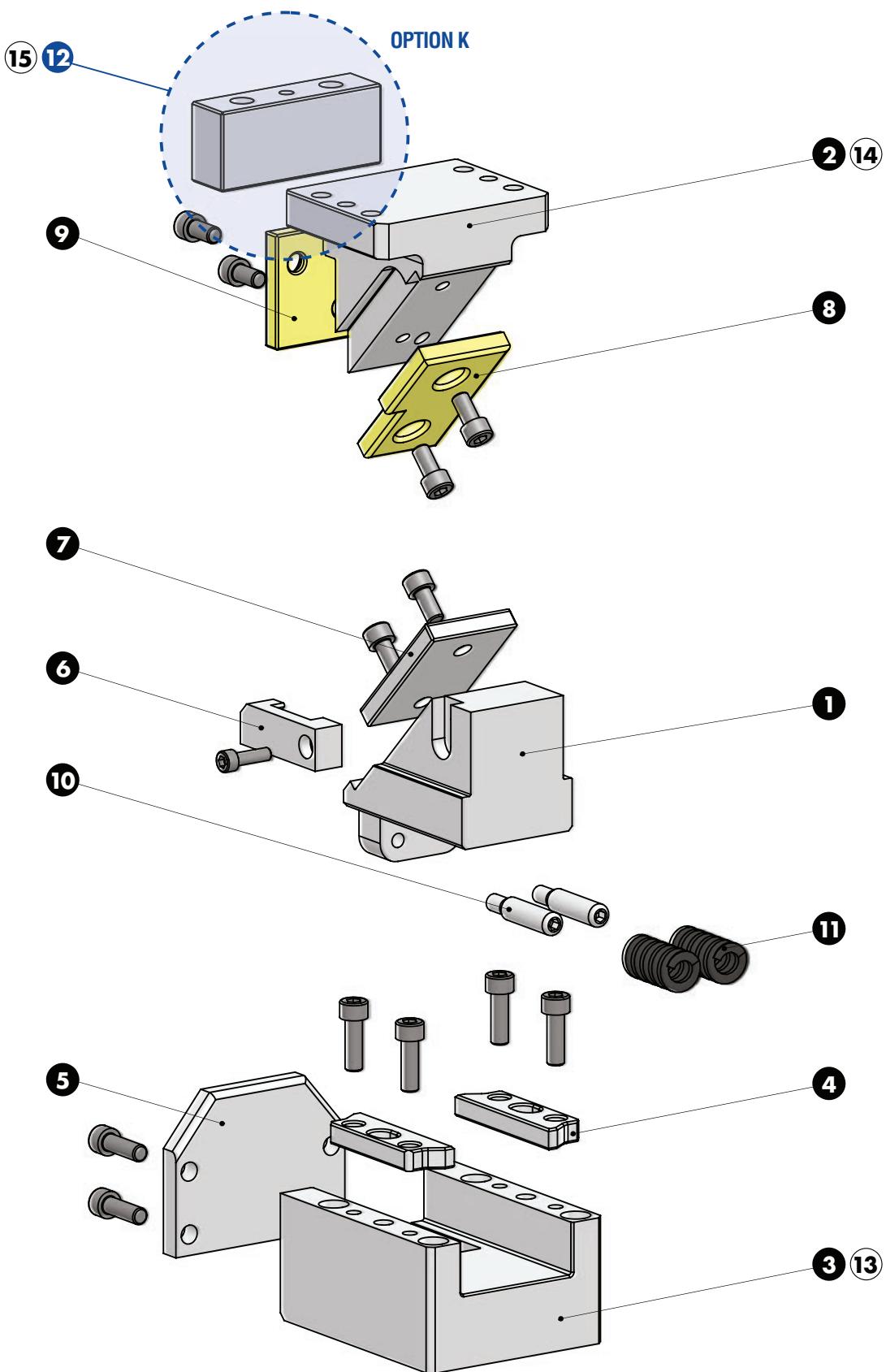


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Spring Stroke (mm)
β	α	S	Ps	Ss
0°	45°	25	25	25
0°	45°	40	40	40
0°	45°	60	60	60





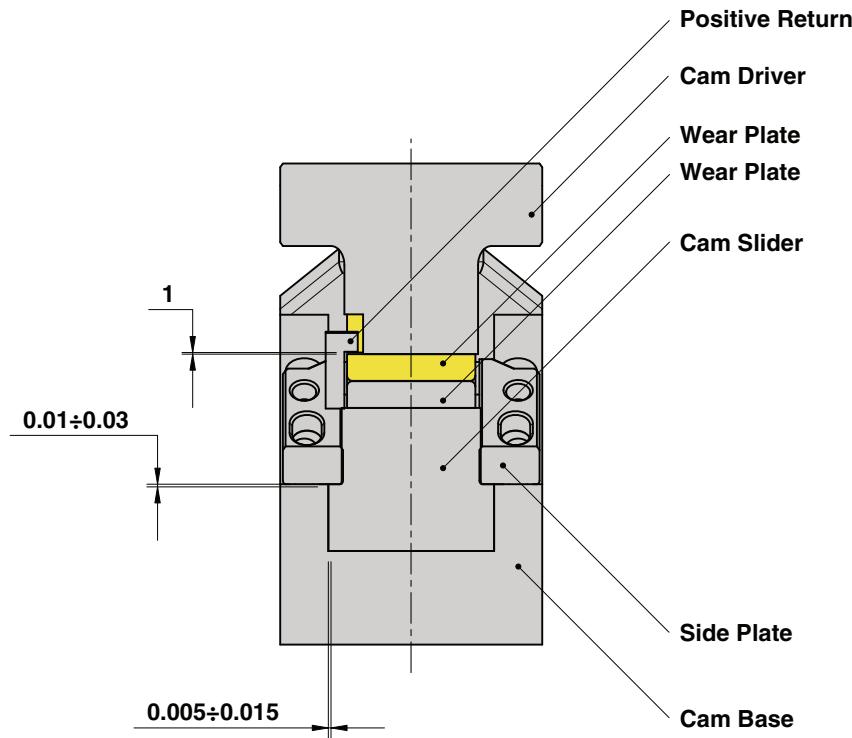
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

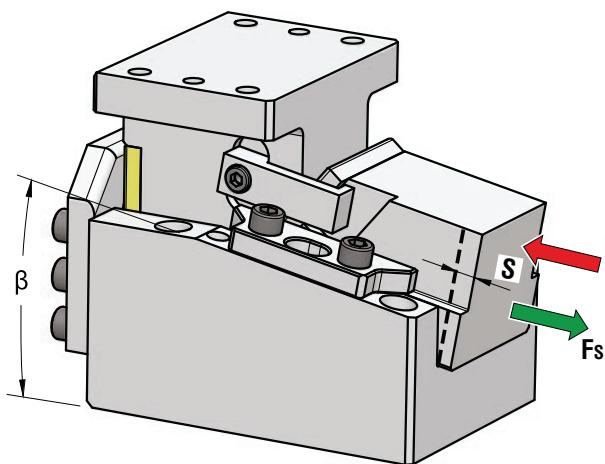


PART LIST

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	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

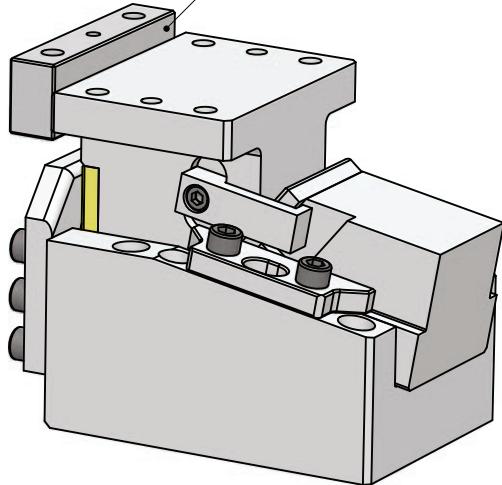


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



C14.25.2538120
Seite 88, page 88, pagina 88

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
				E_f
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



With Key - OPTION K



WEB



WEB



WEB



P.624

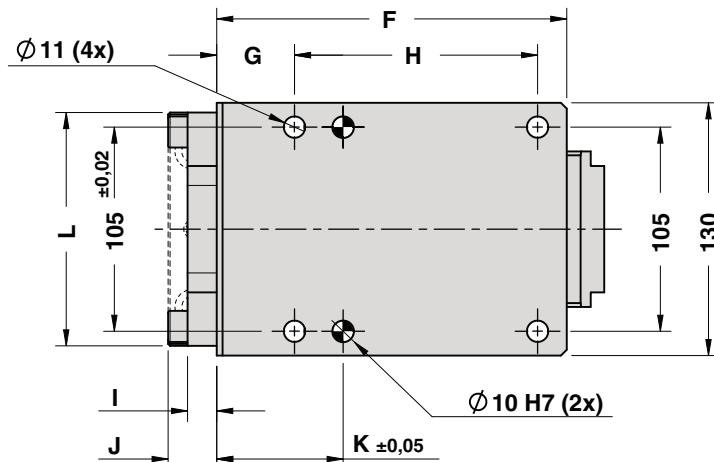
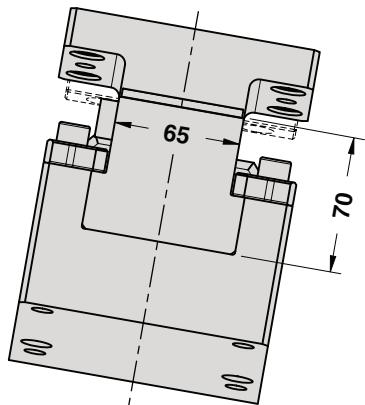
STOCK	ORDER EXAMPLE 	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC065	00	60	K

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	12	27	80	130	60	50	100	
DHC065.00.60	0°	60	190	115	25	80	160	180	40	125	12	22	105	130	70	55	110	
DHC065.05.45	5°	45	150,55	112,10	12,5	100	160	145	30	100	15	25	80	120	60	50	100	
DHC065.05.70	5°	70	195,38	123,17	25	100	170	180	40	125	15	25	65	120	60	50	100	
DHC065.10.45	10°	45	154,95	108,76	20	100	160	145	30	100	15	25	79	120	60	50	100	
DHC065.10.70	10°	70	199,27	110,94	25	100	170	180	40	125	15	25	65	120	60	50	100	
DHC065.15.45	15°	45	158,18	105,09	25	100	170	145	30	100	15	25	80	120	60	50	100	
DHC065.15.70	15°	70	201,64	103,44	40	100	170	180	40	125	15	25	65	120	70	55	110	
DHC065.20.45	20°	45	160,20	101,19	30	100	170	145	30	100	15	25	80	120	60	50	100	
DHC065.20.70	20°	70	202,48	95,79	40	100	170	180	40	125	15	25	65	120	70	55	110	

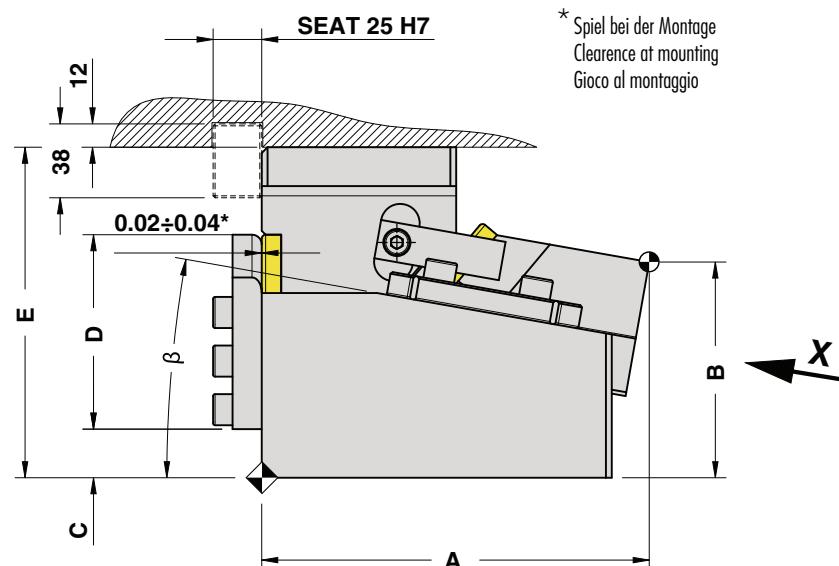
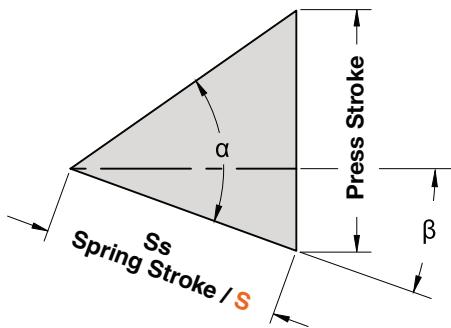


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

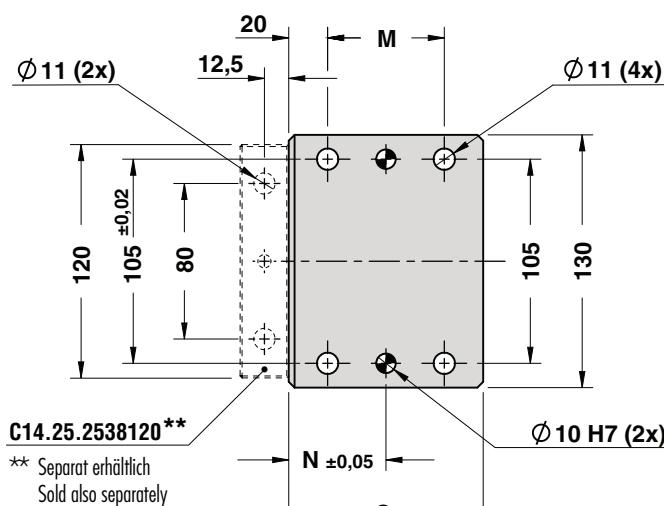
X VIEW



CAM DIAGRAM



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

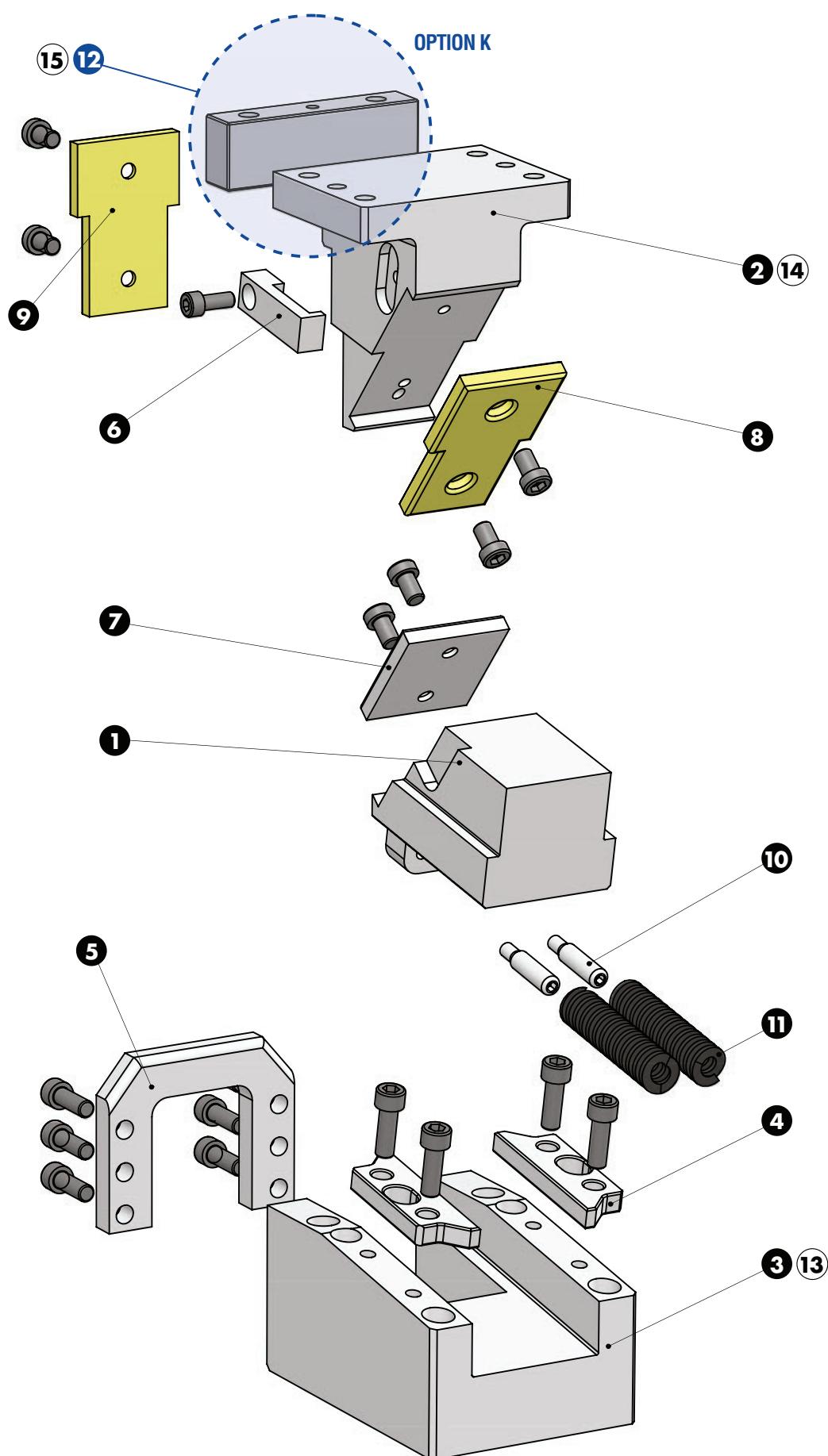


C14.25.2538120**

** Separat erhältlich
Sold also separately
Acquistabile separatamente



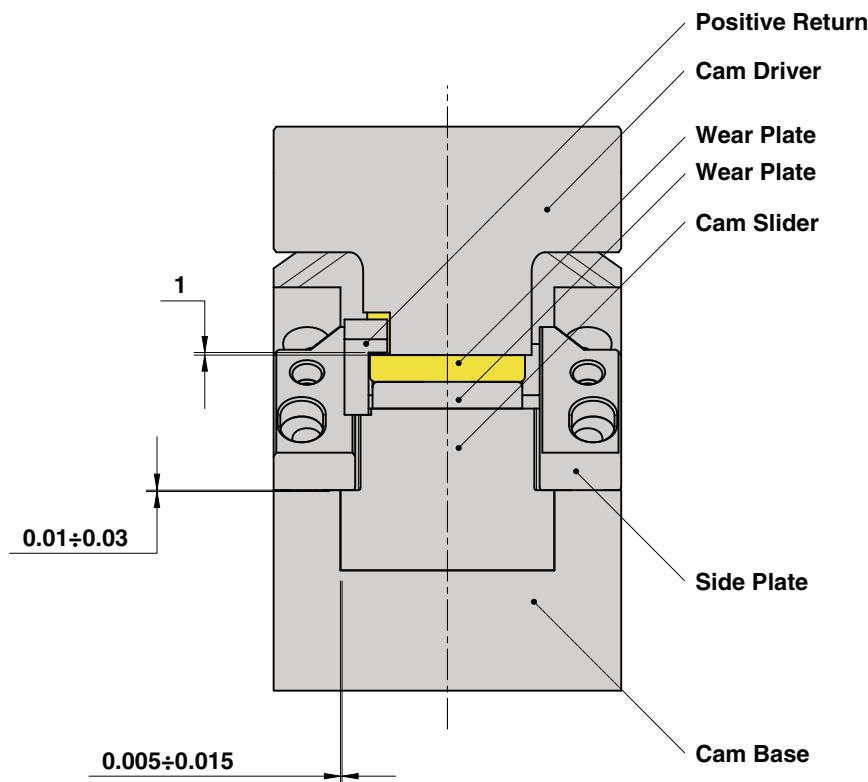
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

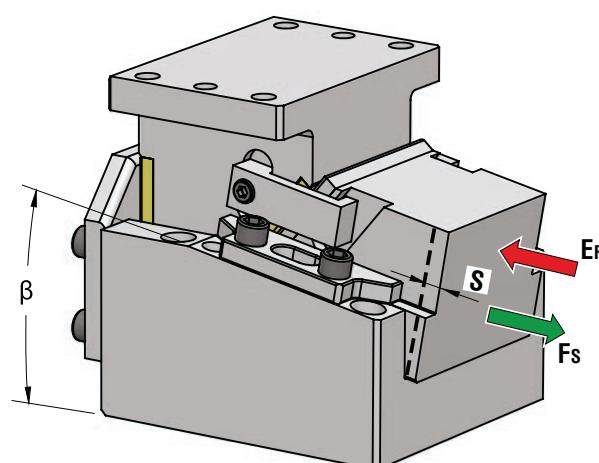


PART LIST

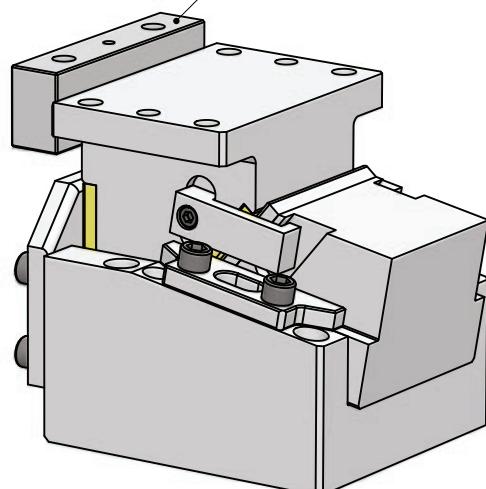
Particular number	Description	Material	Quantity
1	Cam Slider	GGG-45 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	1
7	Wear Plate	CK45	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	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
Seite 88, page 88, pagina 88



With Key - **OPTION K**

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)		Extraction Force (kN)
			β	S	
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	



WEB



WEB



WEB



P.624

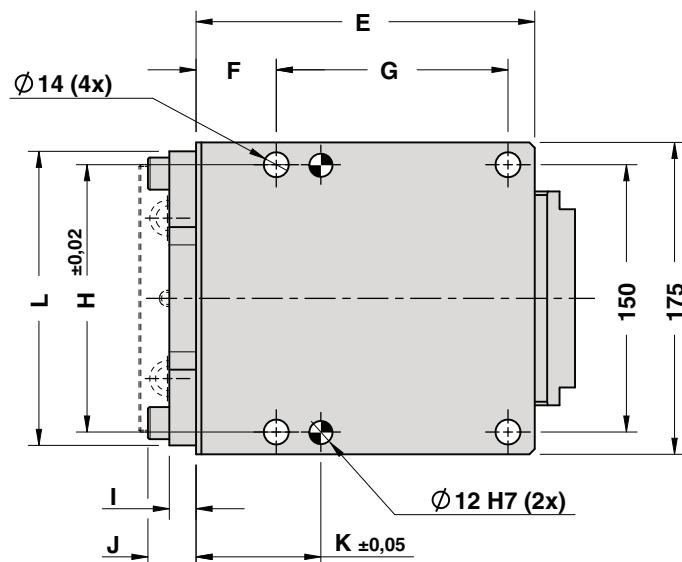
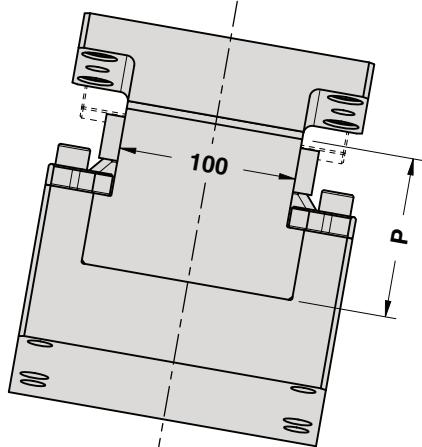
STOCK	ORDER EXAMPLE	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC100	00	60	K

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
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

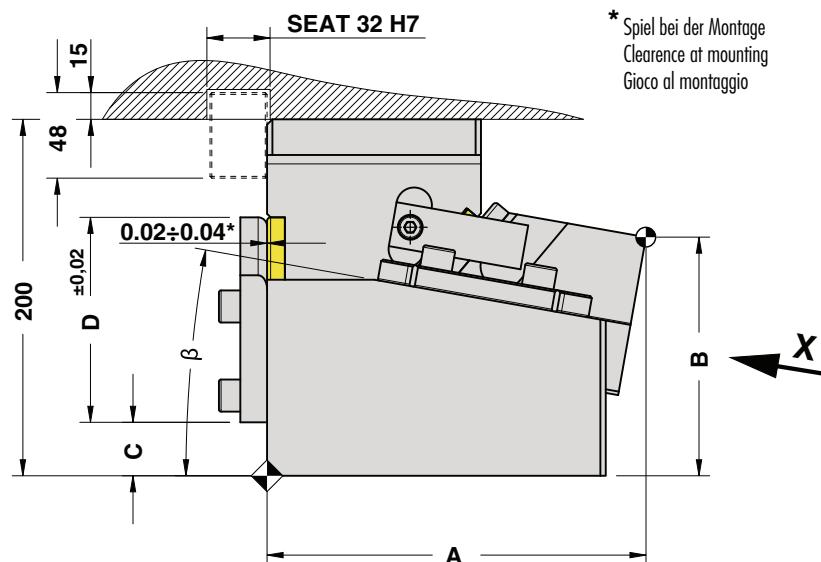
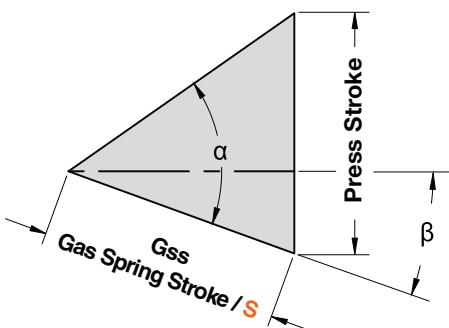
X VIEW



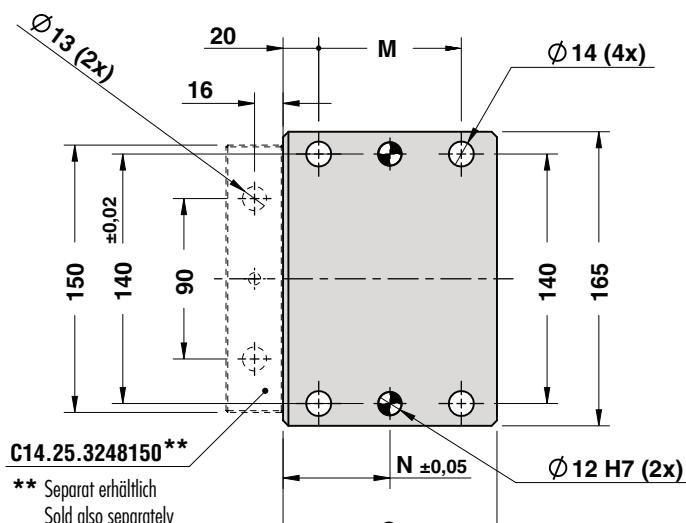
CAM DIAGRAM



WEB



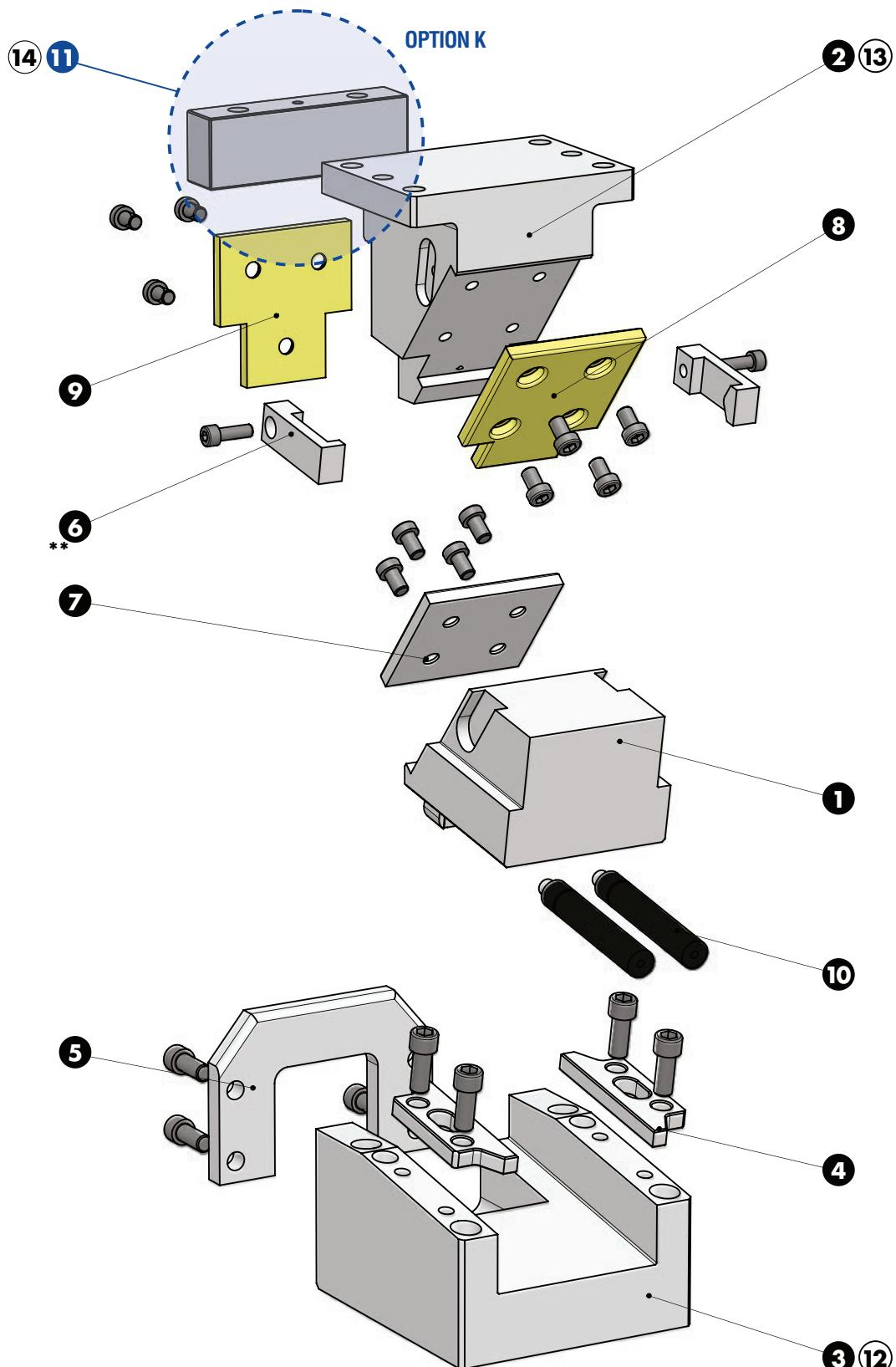
Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	45°	40	40	40
0°	45°	60	60	60
0°	45°	80	80	80
5°	60°	45	67,94	45
5°	60°	70	105,69	70
10°	60°	45	60,63	45
10°	60°	70	94,31	70
15°	60°	45	55,11	45
15°	60°	70	85,73	70
20°	60°	45	50,87	45
20°	60°	70	79,14	70



** Separat erhältlich
Sold also separately
Acquistabile separatamente



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

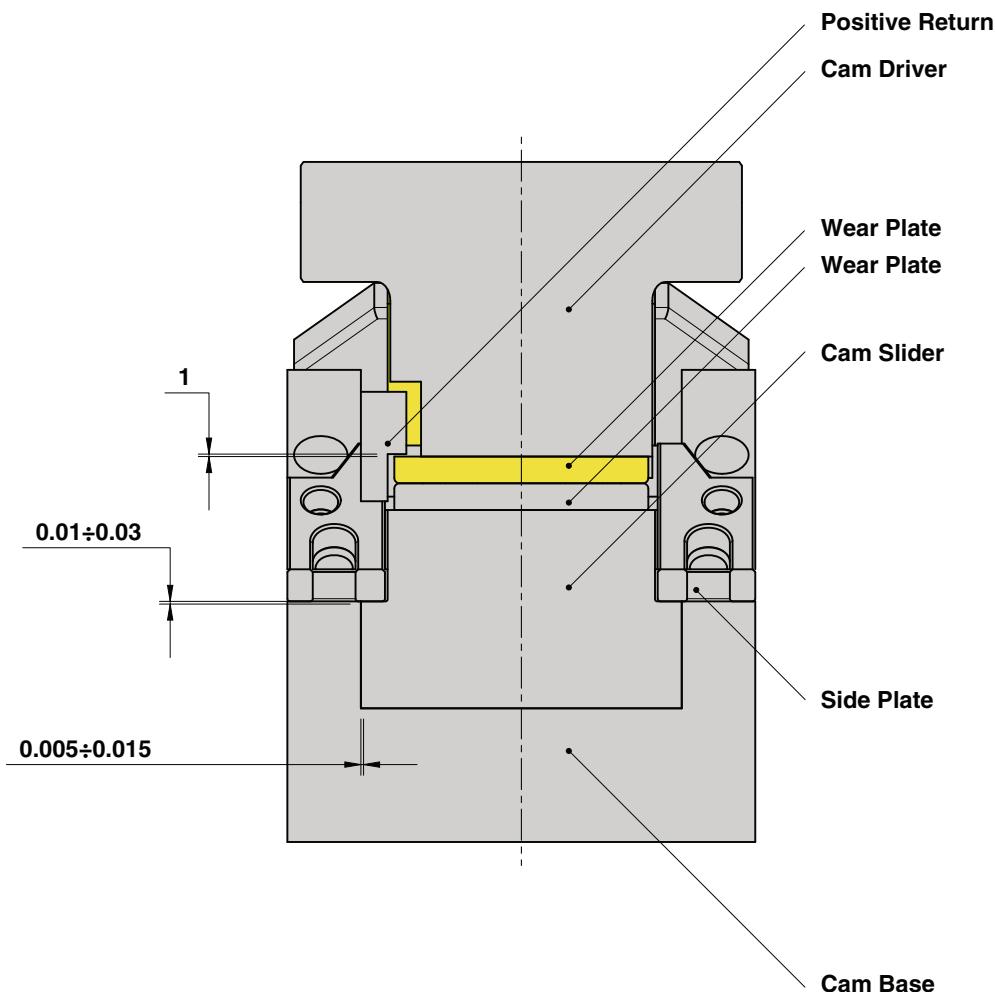


** Only nr.1 positive re
DHC100.00 mit nur einer Zwangsrückholung.
Solo un gancio di sicurezza per le DHC100.00.



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

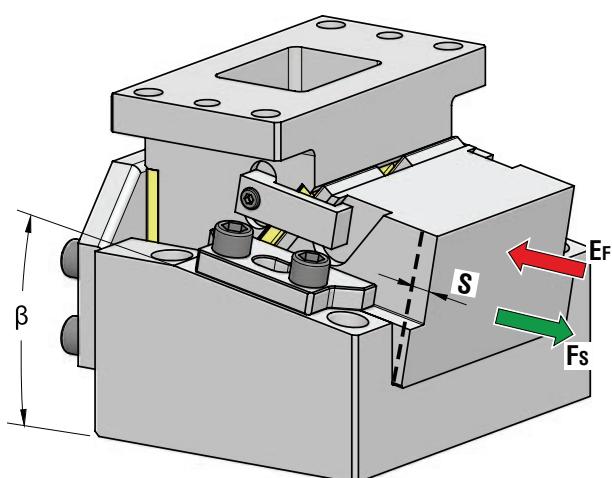


PART LIST

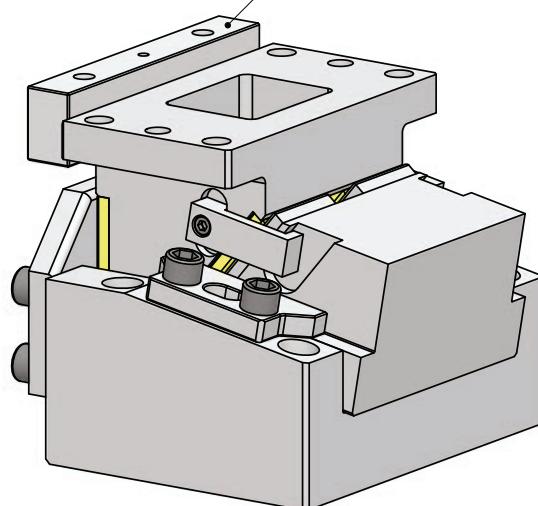
Particular number	Description	Material	Quantity
1	Cam Slider	GGG-45 + Graphite	1
2	Cam Driver	GG-25	1
3	Cam Base	GG-25	1
4	Side Plate	CK45	2
5	Stopper Plate	CK45	1
6	Positive Return	CK45	1
7	Wear Plate	CK45	1
8	Wear Plate	CuZn25Al5 + Graphite - HB > 190	1
9	Wear Plate	CuZn25Al5 + Graphite - HB > 190	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



C14.25.3248210
Seite 88, page 88, pagina 88



With Key - **OPTION K**

OMCR CODE	Work Angle	Stroke (mm)	Max Work Force with shoulder (kN)	Extraction Force (kN)
	β	S		
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



WEB



WEB



WEB



P.624

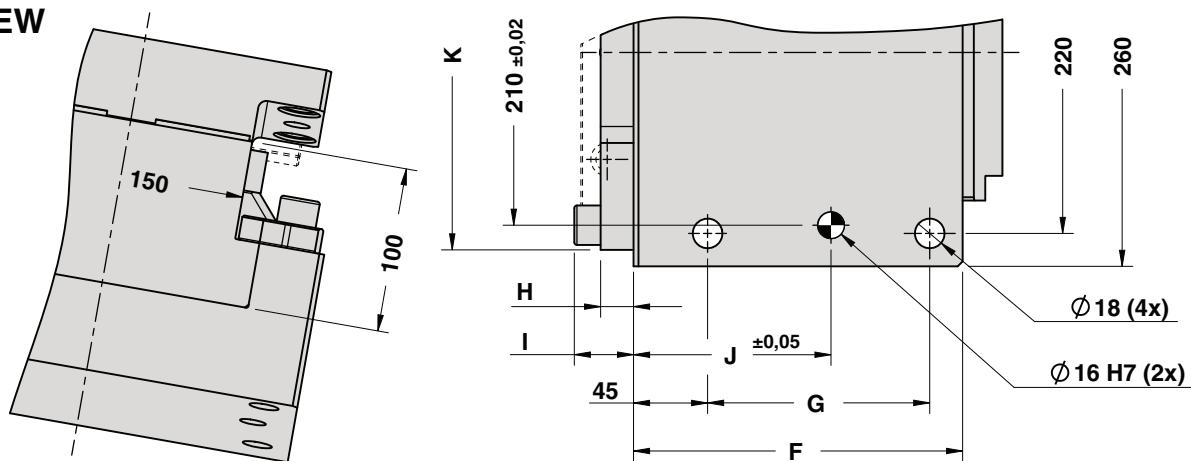
STOCK	ORDER EXAMPLE 	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC150	00	60	K

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	19	35	105	250	80	60	120	
DHC150.00.60	0°	60	210	170	45	100	220	200	135	19	35	110	250	100	70	140	
DHC150.05.45	5°	45	193,01	158,50	30	125	220	190	125	20	36	105	240	70	55	110	
DHC150.05.70	5°	70	217,92	166,32	40	125	220	200	135	20	36	120	240	90	65	130	
DHC150.10.45	10°	45	199,55	151,36	40	125	220	190	125	20	36	105	240	70	55	110	
DHC150.10.70	10°	70	224,17	152,02	40	125	220	200	135	20	36	120	240	90	65	130	
DHC150.15.45	15°	45	204,58	143,71	40	125	220	190	125	20	36	105	240	80	60	120	
DHC150.15.70	15°	70	228,73	152,24	55	125	230	200	135	20	36	120	240	100	70	140	
DHC150.20.45	20°	45	208,05	135,70	40	125	220	190	125	20	36	105	240	80	60	120	
DHC150.20.70	20°	70	231,54	137,15	55	125	230	200	135	20	36	120	240	100	70	140	



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

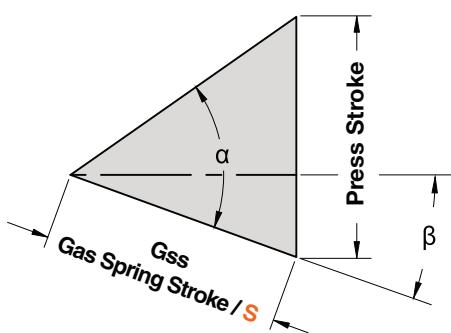
X VIEW



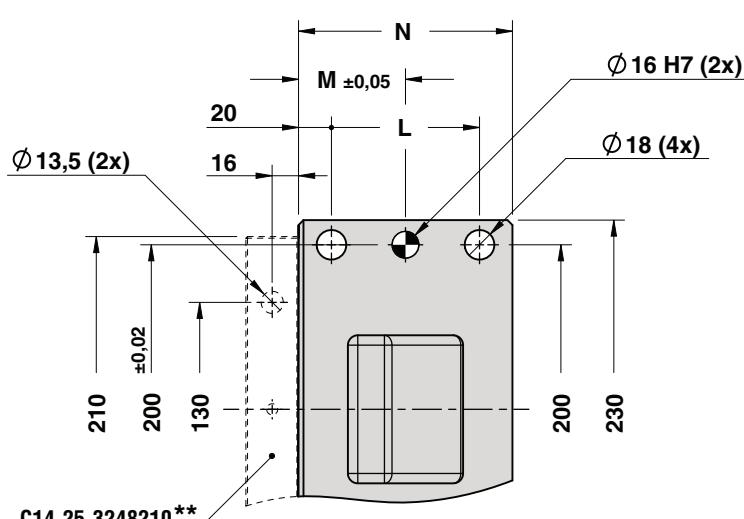
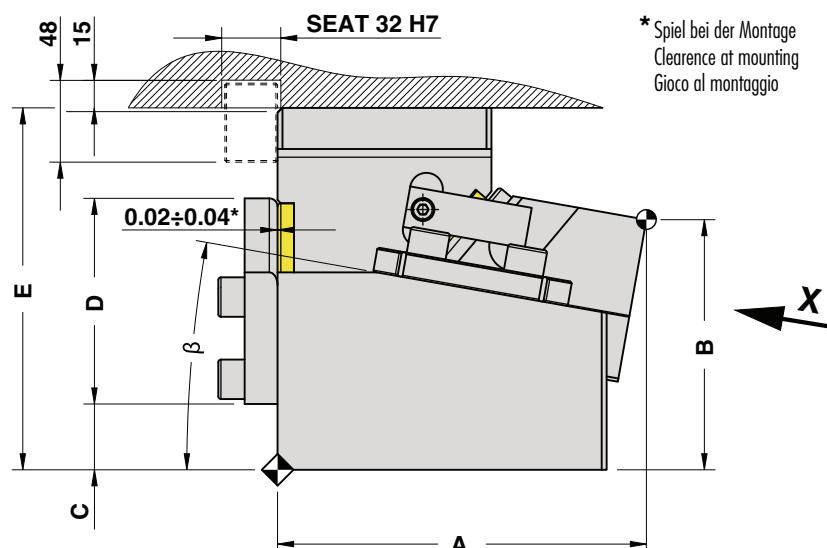
CAM DIAGRAM



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
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

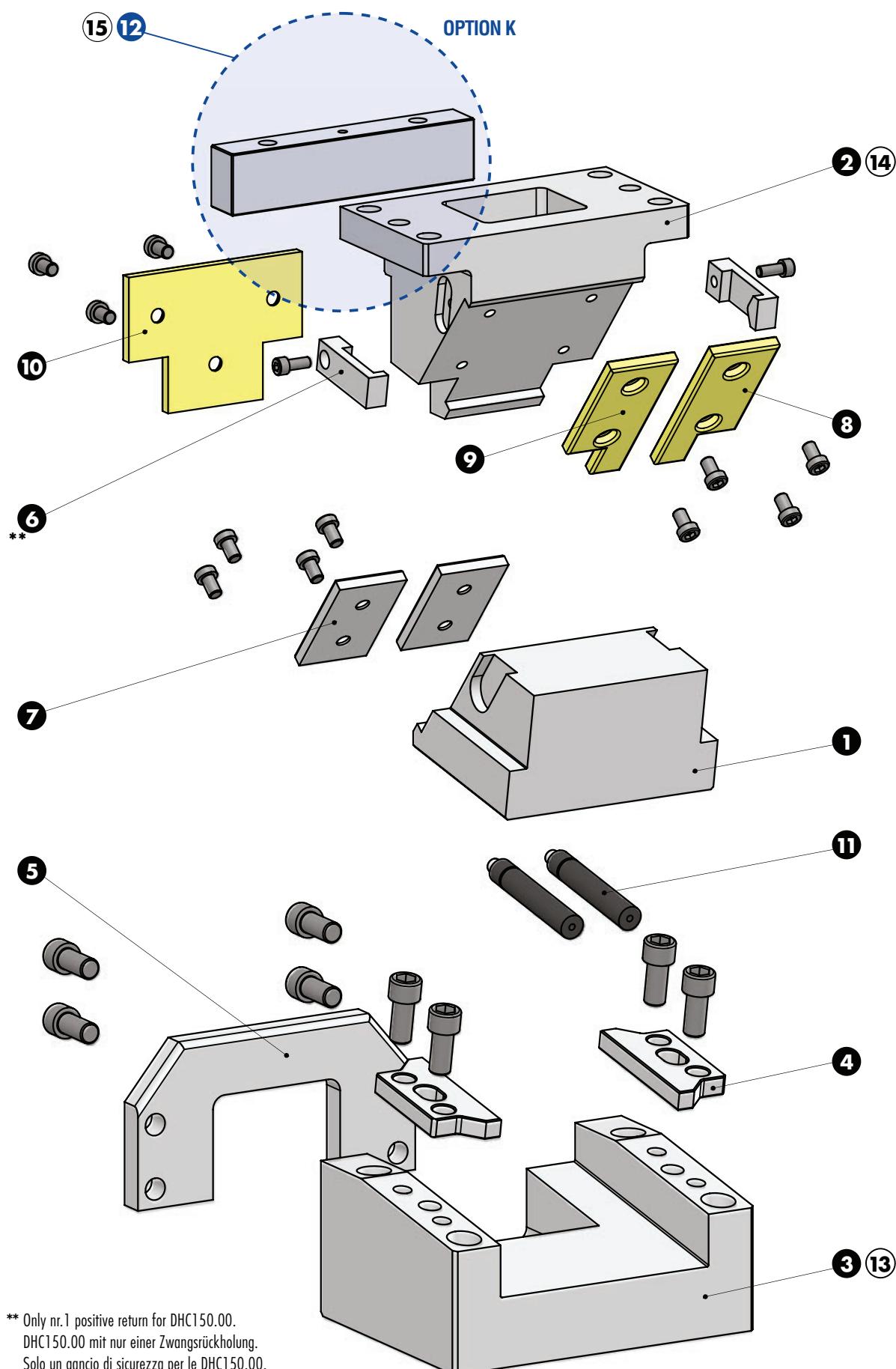


C14.25.3248210**

** Separat erhältlich
Sold also separately
Acquistabile separatamente



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

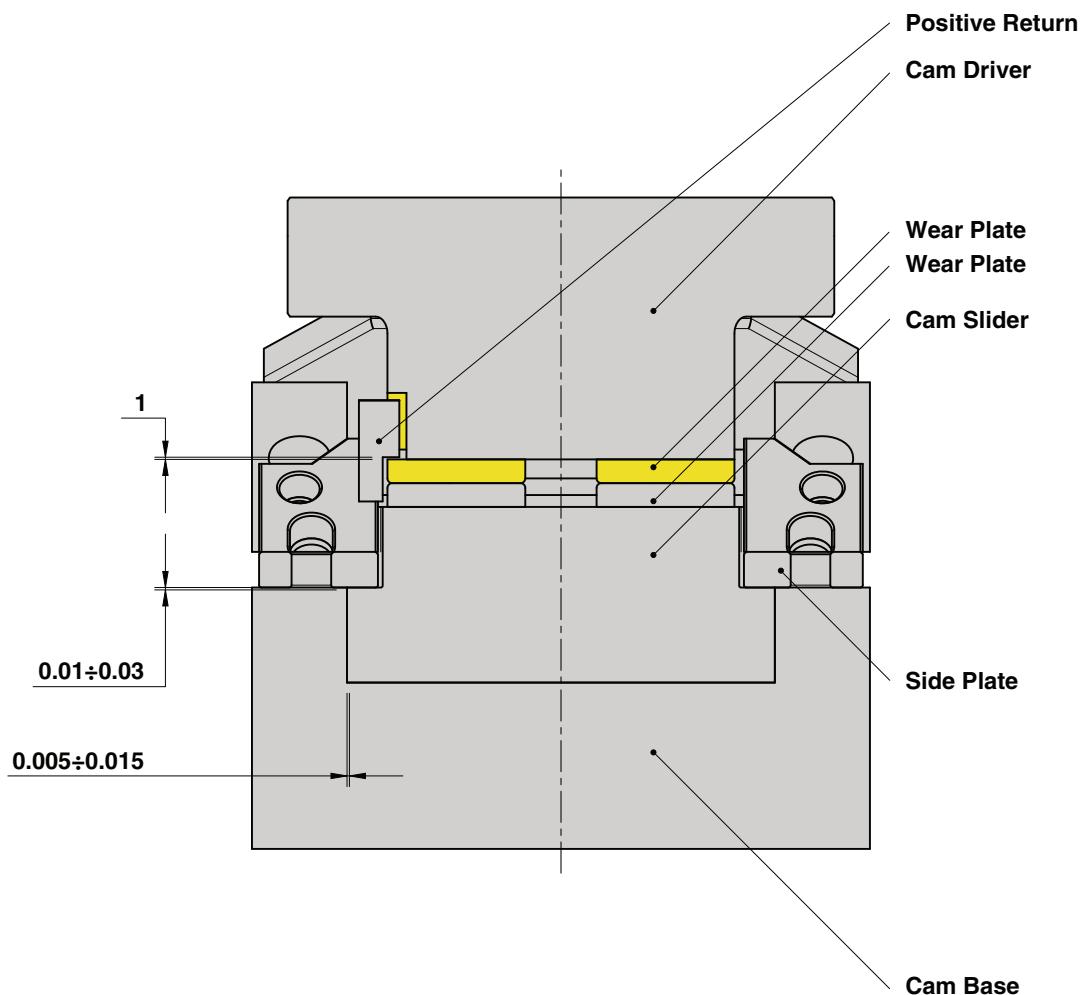


** Only nr.1 positive return for DHC150.00.
DHC150.00 mit nur einer Zwangsrückholung.
Solo un gancio di sicurezza per le DHC150.00.



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

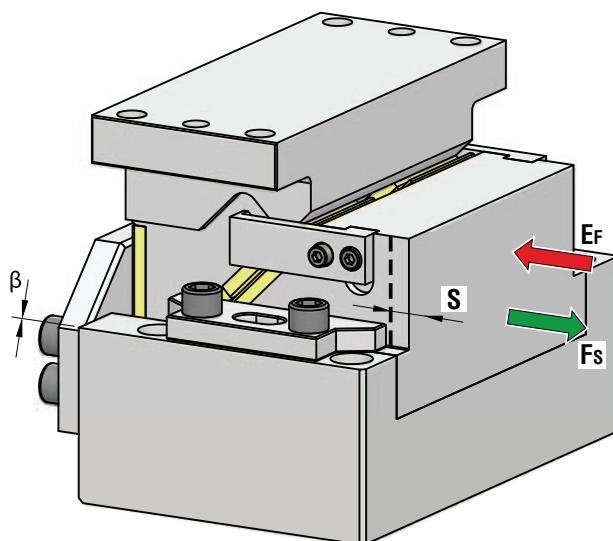


PART LIST

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)
	β	S		F_s
DHC200.00.40	0°	40	176	8,6
DHC200.00.60	0°	60	176	10,1



WEB



WEB



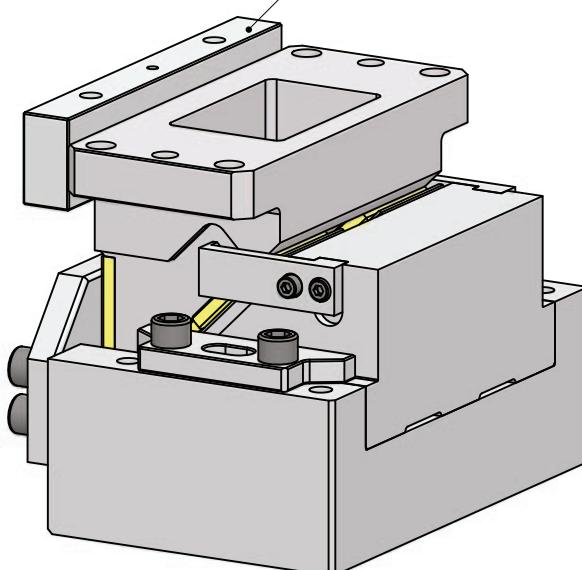
WEB



P.624

C14.25.3258260

Seite 88, page 88, pagina 88



With Key - OPTION K

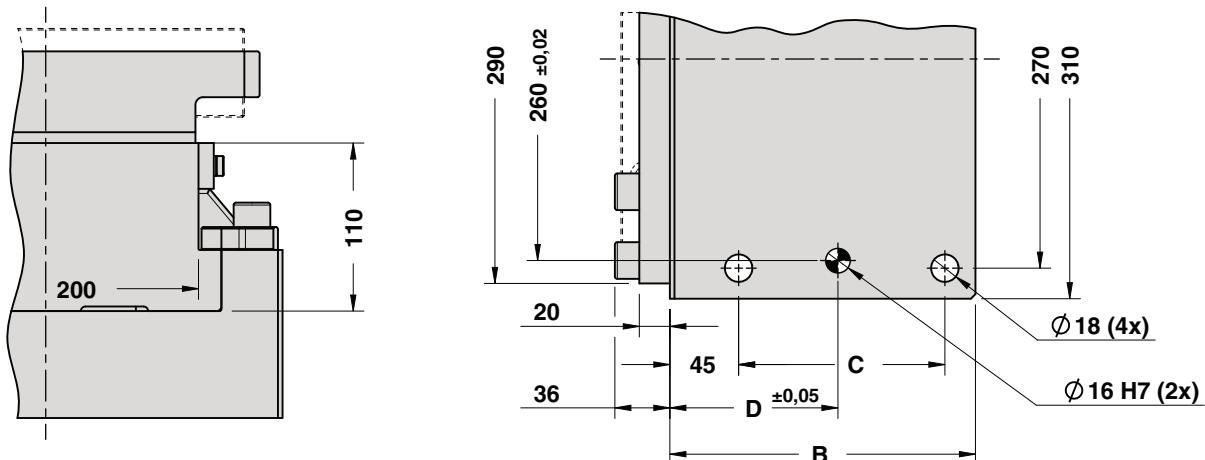
STOCK	ORDER EXAMPLE	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC200	00	60	K

OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)						
			β	S	A	B	C	D	E
DHC200.00.40	0°	40	200	200	135	110	90	65	130
DHC200.00.60	0°	60	220	210	145	120	110	75	150



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

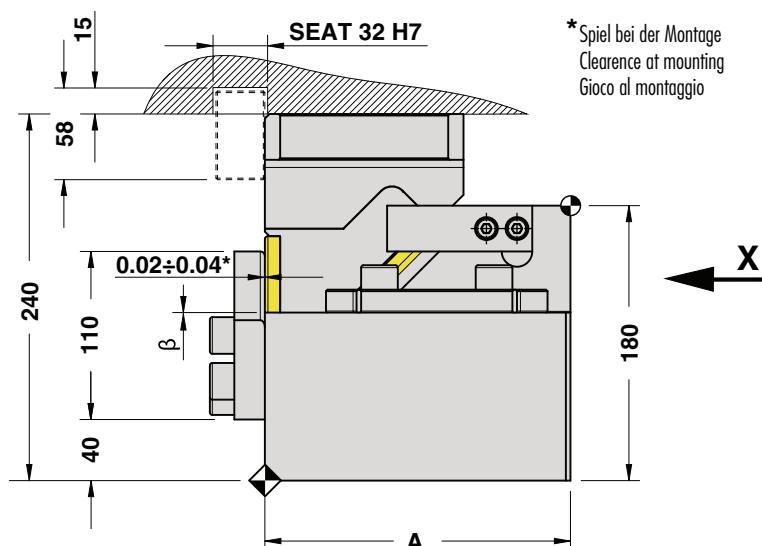
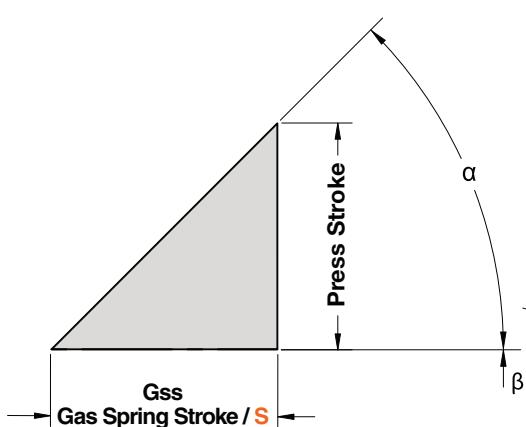
X VIEW



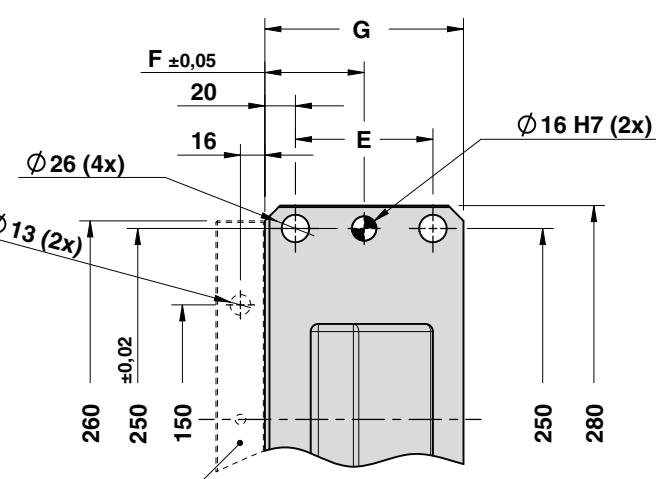
CAM DIAGRAM



WEB



*Spiel bei der Montage
Clearance at mounting
Gioco al montaggio

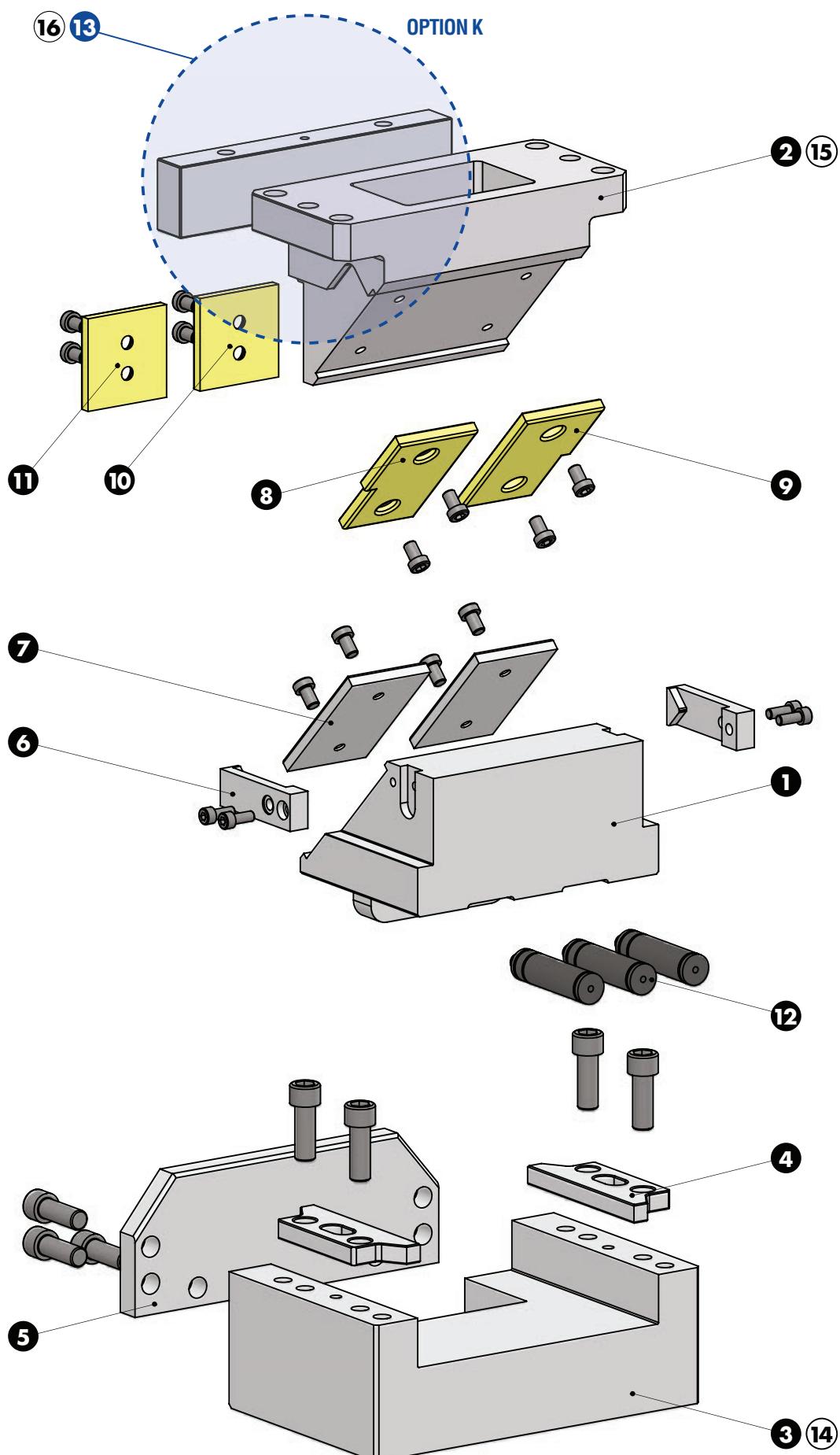


C14.25.3258260**
** Separat erhältlich
Sold also separately
Acquistabile separatamente

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



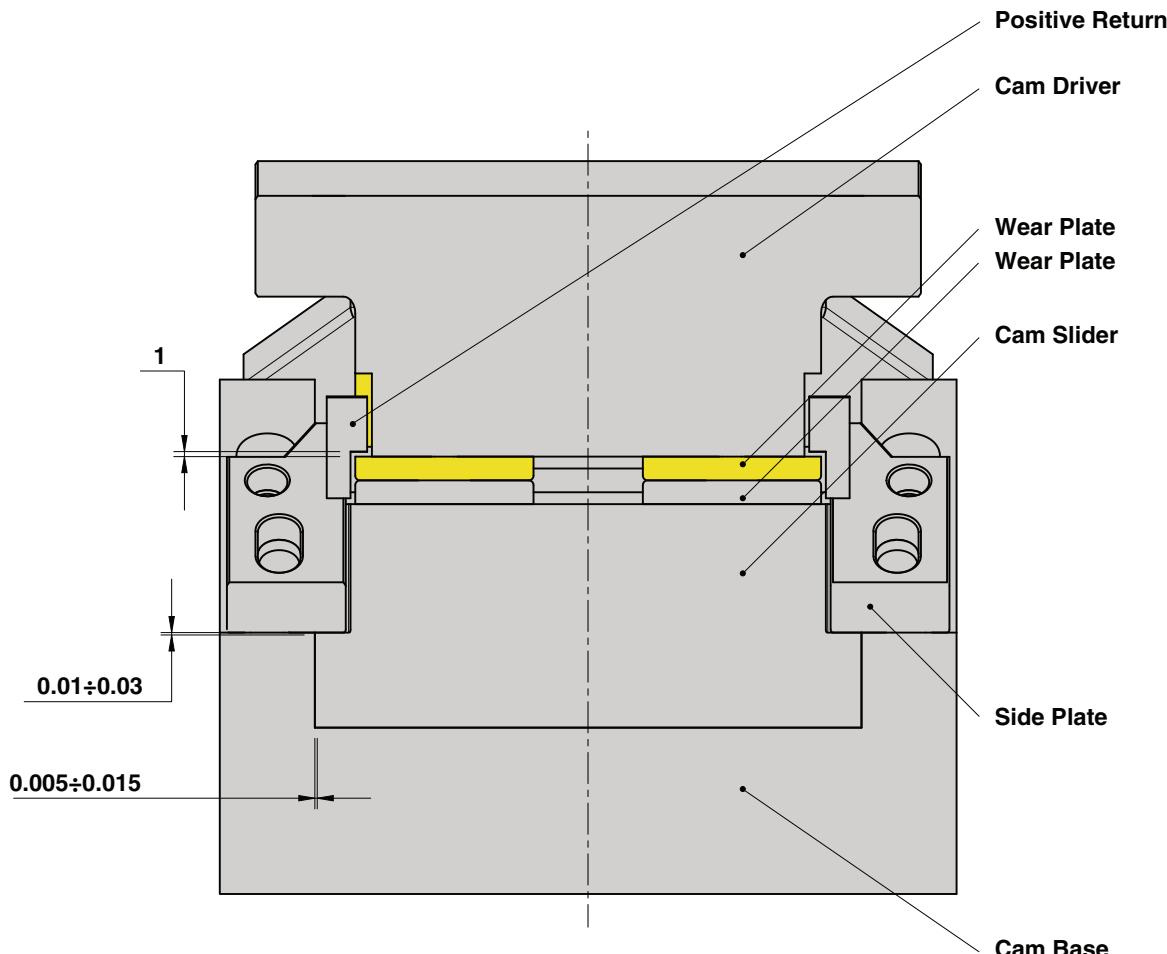
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

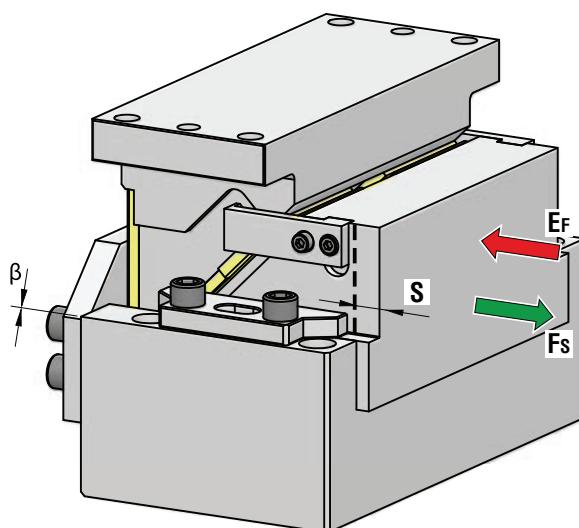


PART LIST

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)
	β	S	Fs	Gas Spring
DHC250.00.40	0°	40	232	8,6
DHC250.00.60	0°	60	232	9,4



WEB



WEB

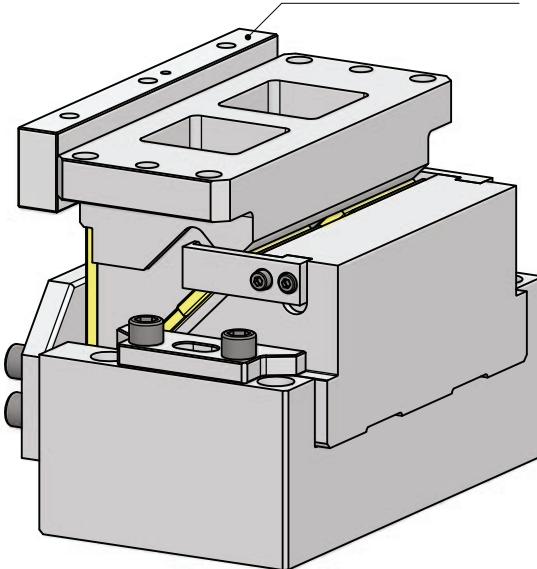


WEB



P.624

C14.25.3258310
Seite 88, page 88, pagina 88



With Key - OPTION K

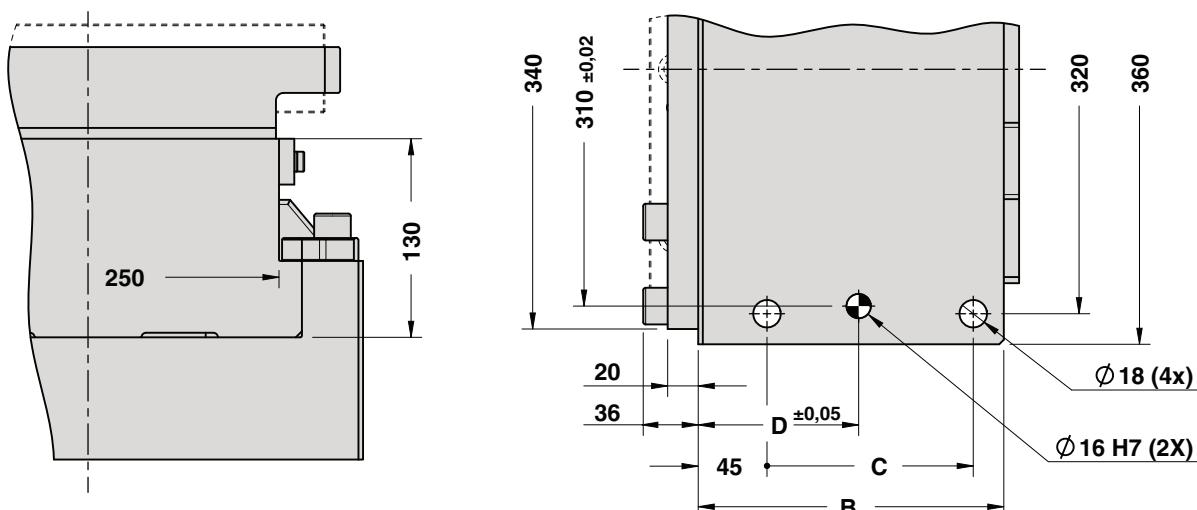
STOCK	ORDER EXAMPLE	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC250	00	60	K

OMCR CODE	Work Angle	Stroke	Overall Dimensions (mm)								
			β	S	A	B	C	D	E		
DHC250.00.40	0°	40			210	200	135	105	100	70	140
DHC250.00.60	0°	60			230	220	155	125	120	80	160

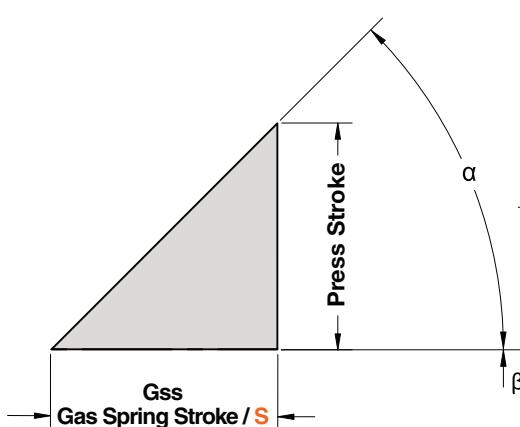


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

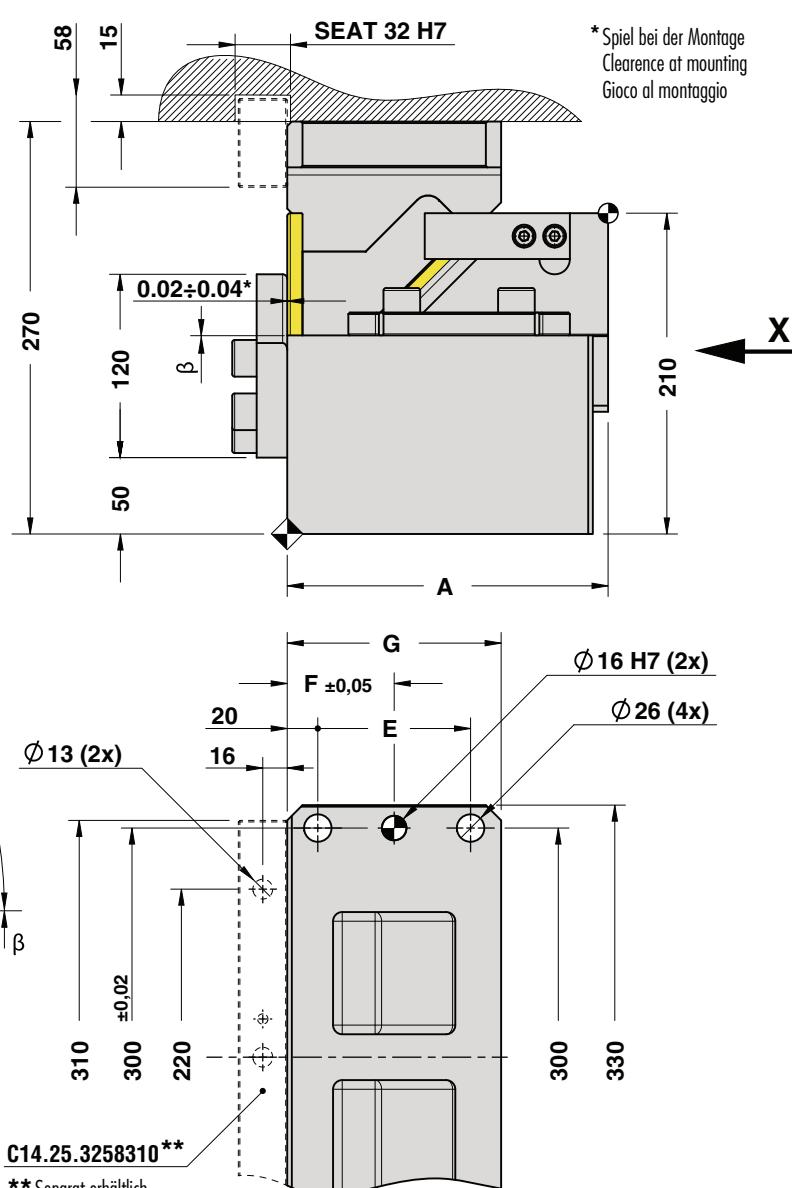
X VIEW



CAM DIAGRAM



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

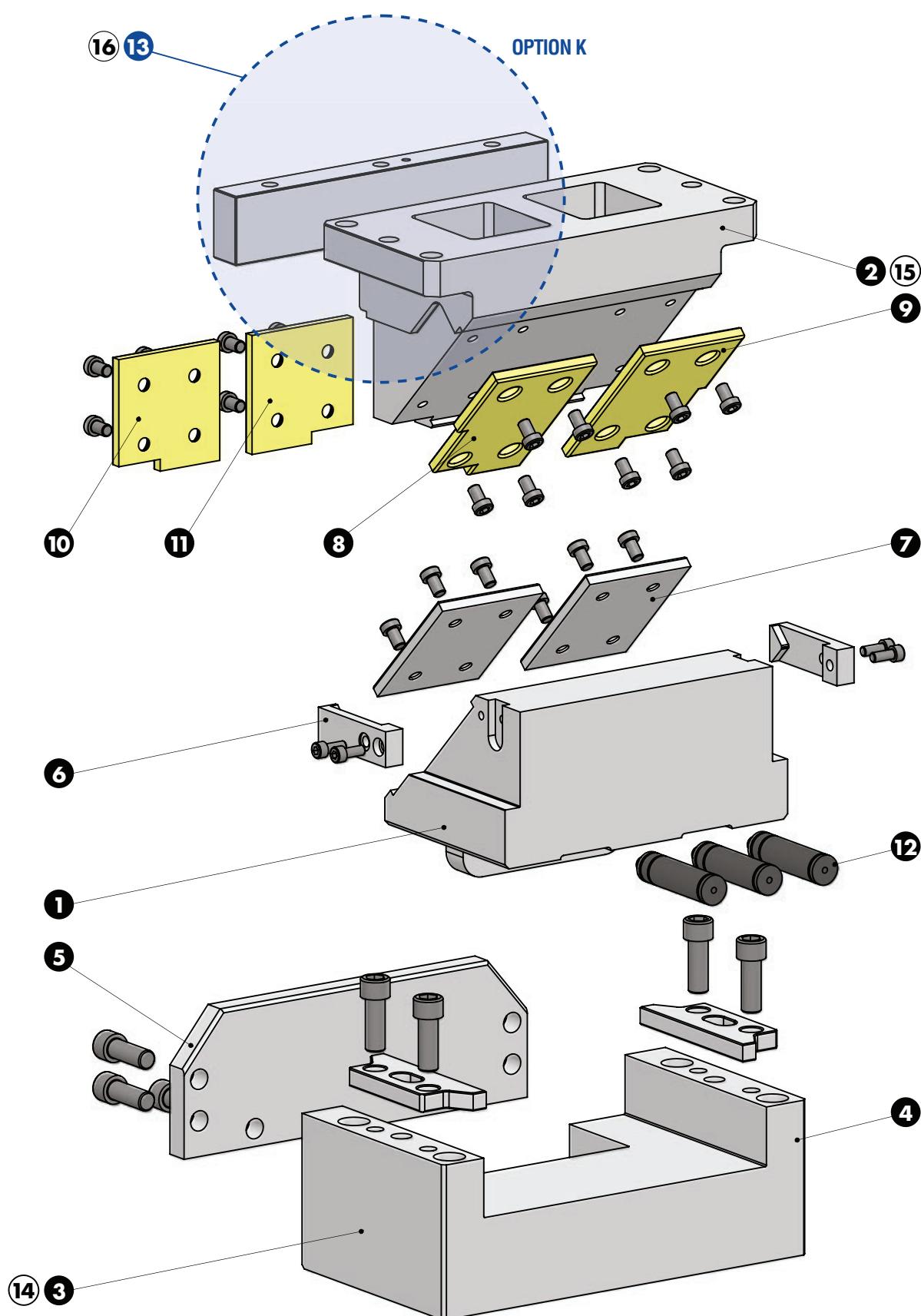


C14.25.3258310**

** Separat erhältlich
Sold also separately
Acquistabile separatamente



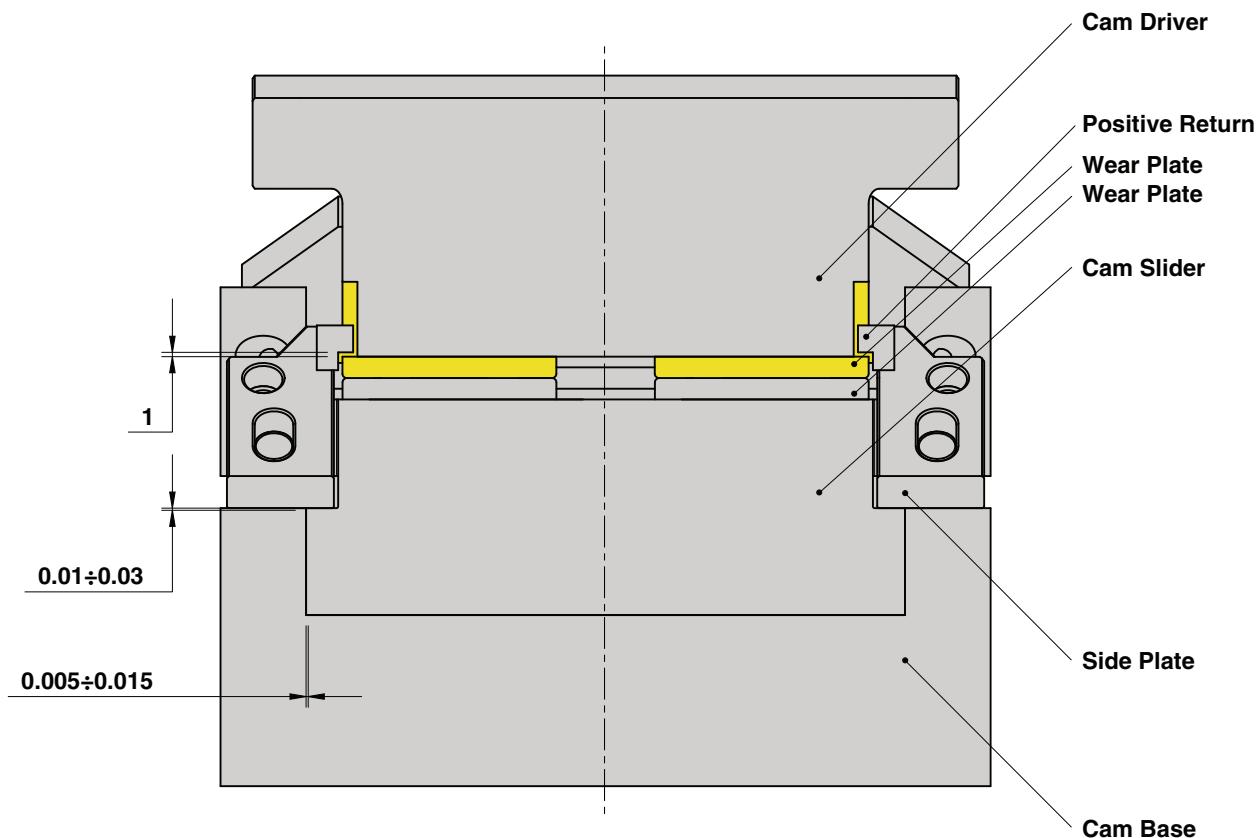
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



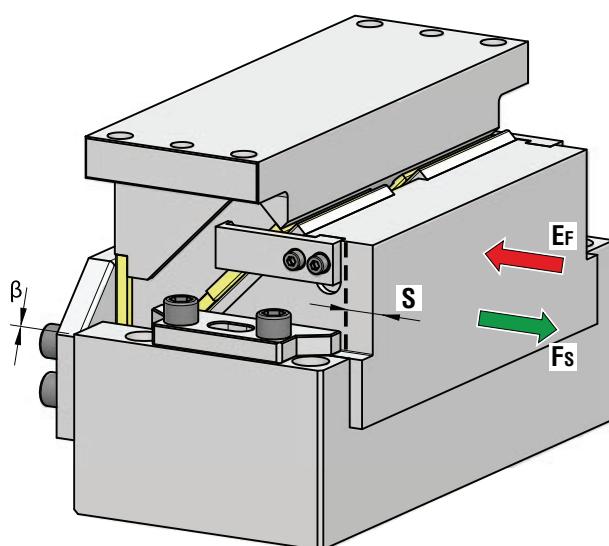
Cam Units DHC

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)
	β	S		F_s
DHC300.00.40	0°	40	272	8,6
DHC300.00.60	0°	60	272	9,4



WEB



WEB

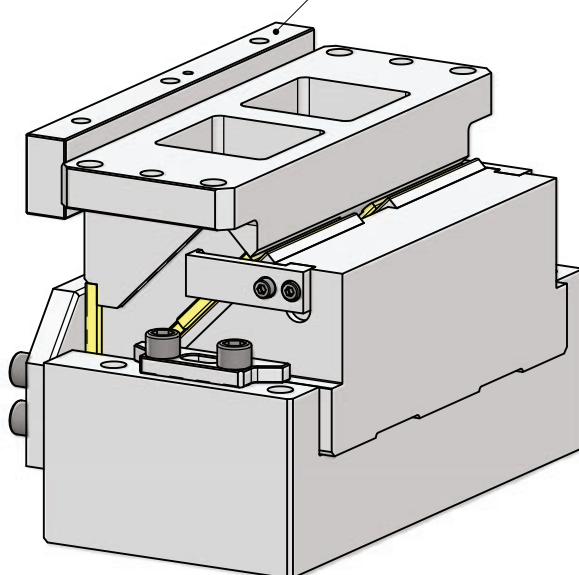


WEB



P.624

C14.25.3258350
Seite 88, page 88, pagina 88



With Key - OPTION K

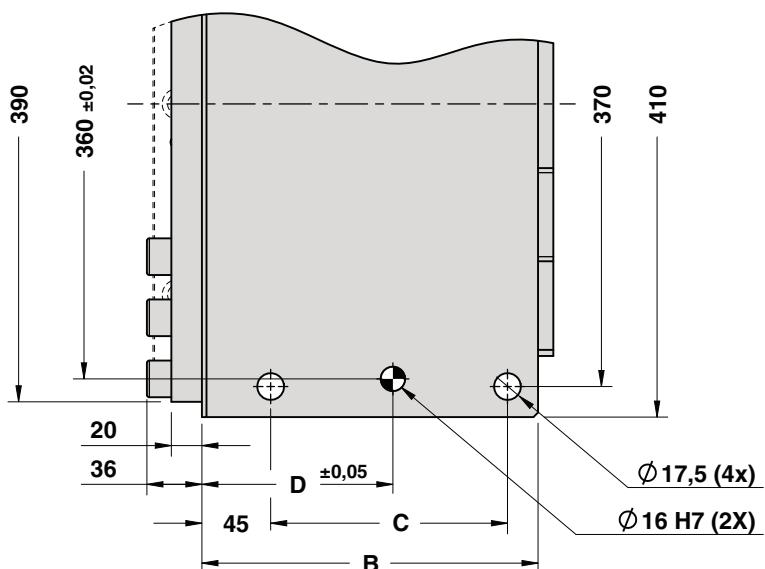
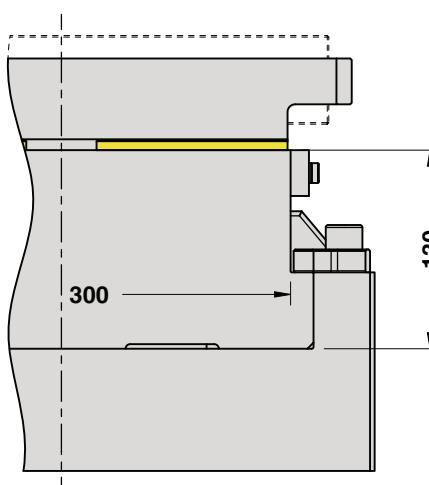
STOCK	ORDER EXAMPLE	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC300	00	60	K

OMCR CODE	Work Angle	Stroke	Overall Dimensions (mm)						
			β	S	A	B	C	D	E
DHC300.00.40	0°	40	210	200	135	105	100	70	140
DHC300.00.60	0°	60	230	220	155	125	120	80	160

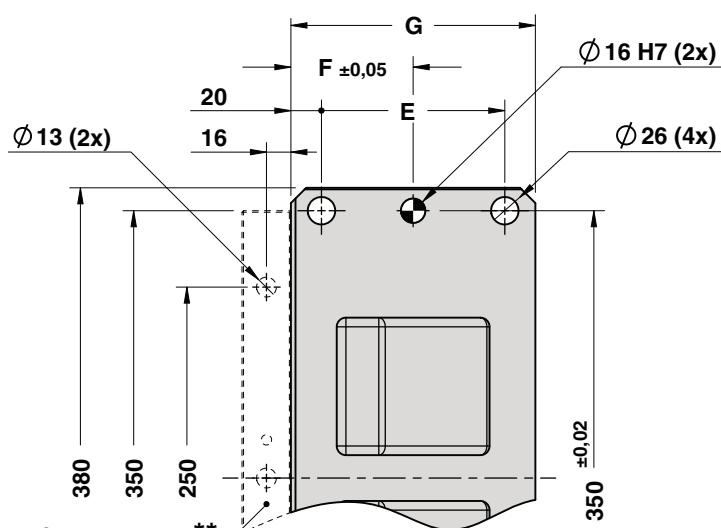
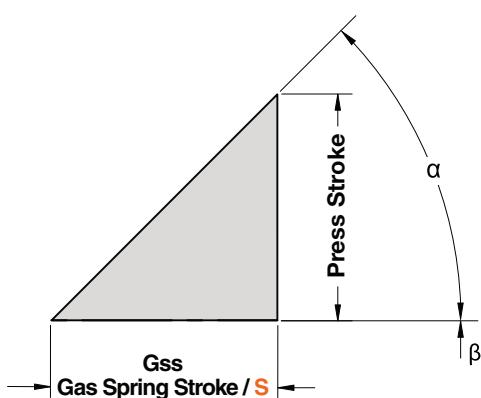


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

X VIEW



CAM DIAGRAM



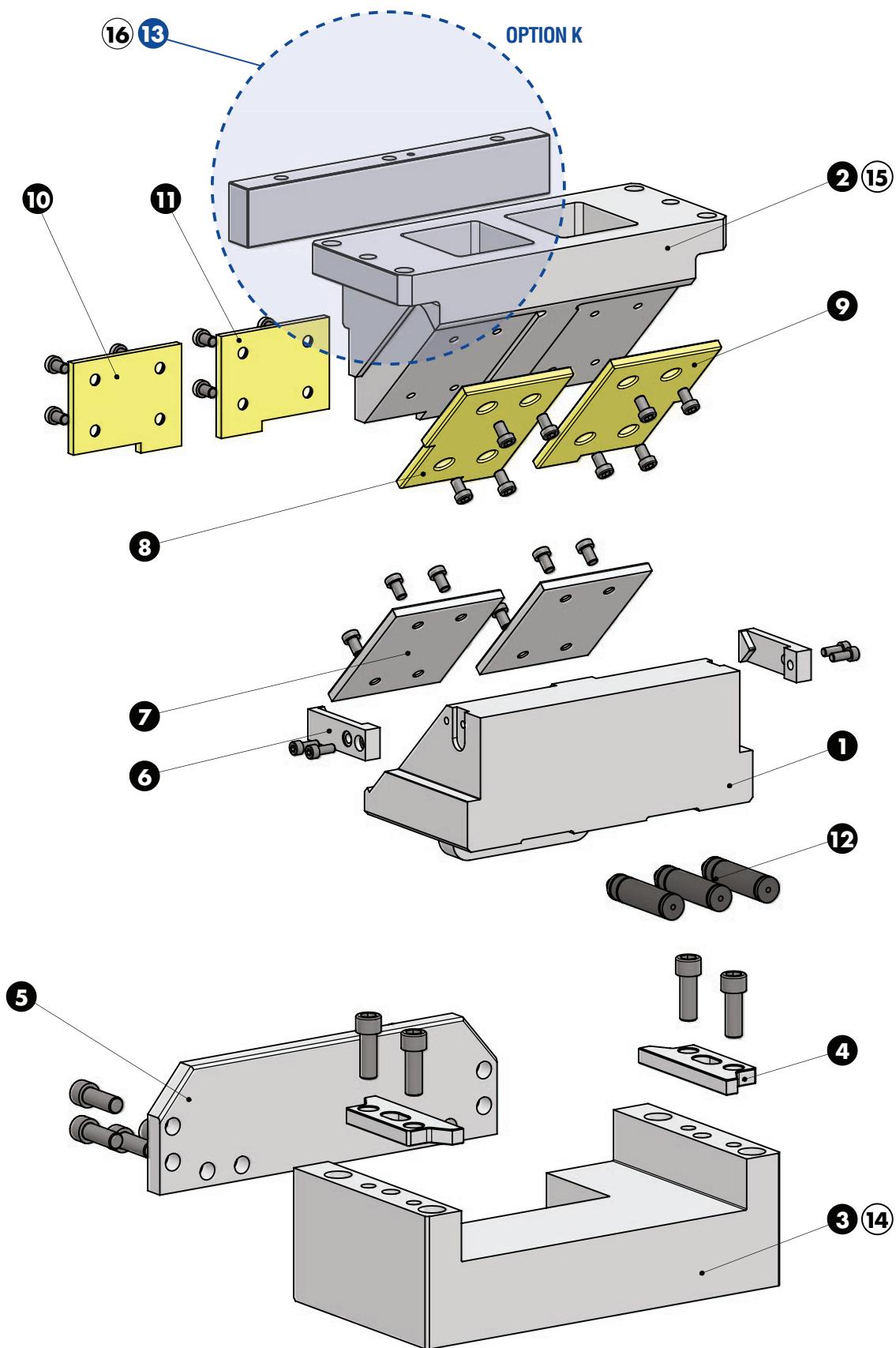
C14.25.3258350**

** Separat erhältlich
Sold also separately
Acquistabile separatamente

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



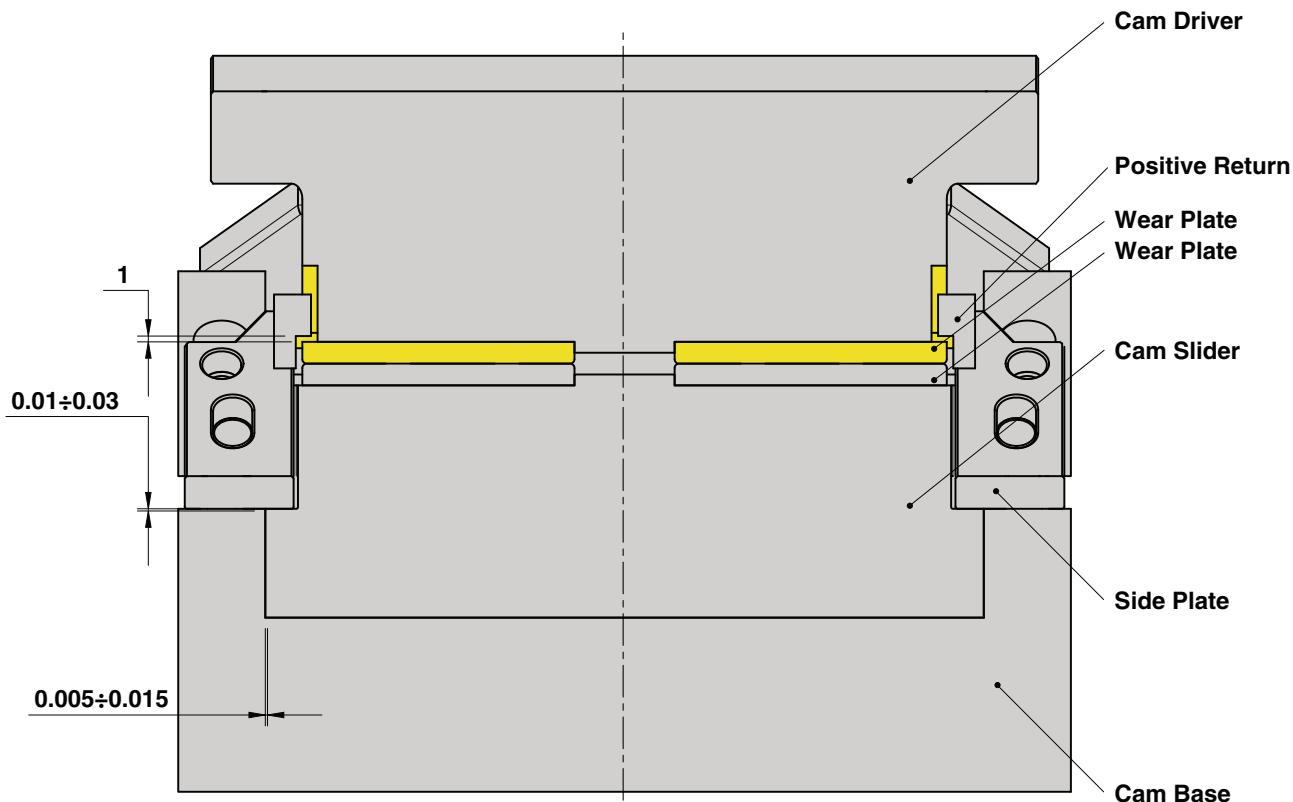
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



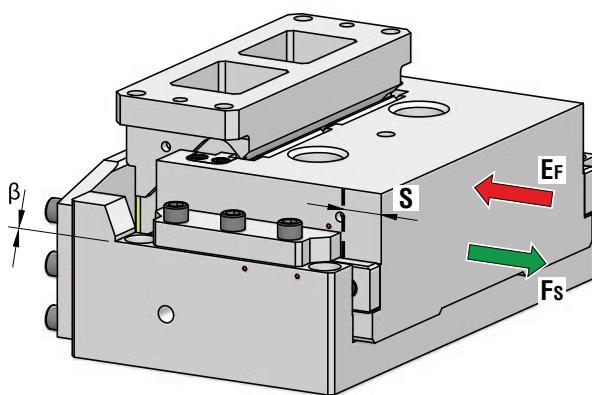
Cam Units DHC

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 β	Stroke (mm) S	Max Work Force with shoulder (kN) F_s	Extraction Force (kN)
				Ef
DHC400.00.60	0°	60	480	25,2



WEB



WEB

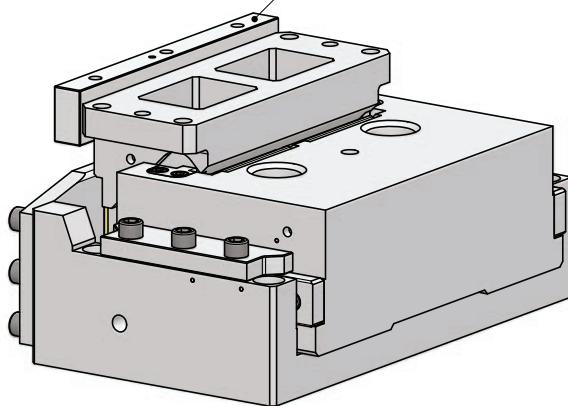


WEB



P.624

C14.25.3258350
Seite 88, page 88, pagina 88



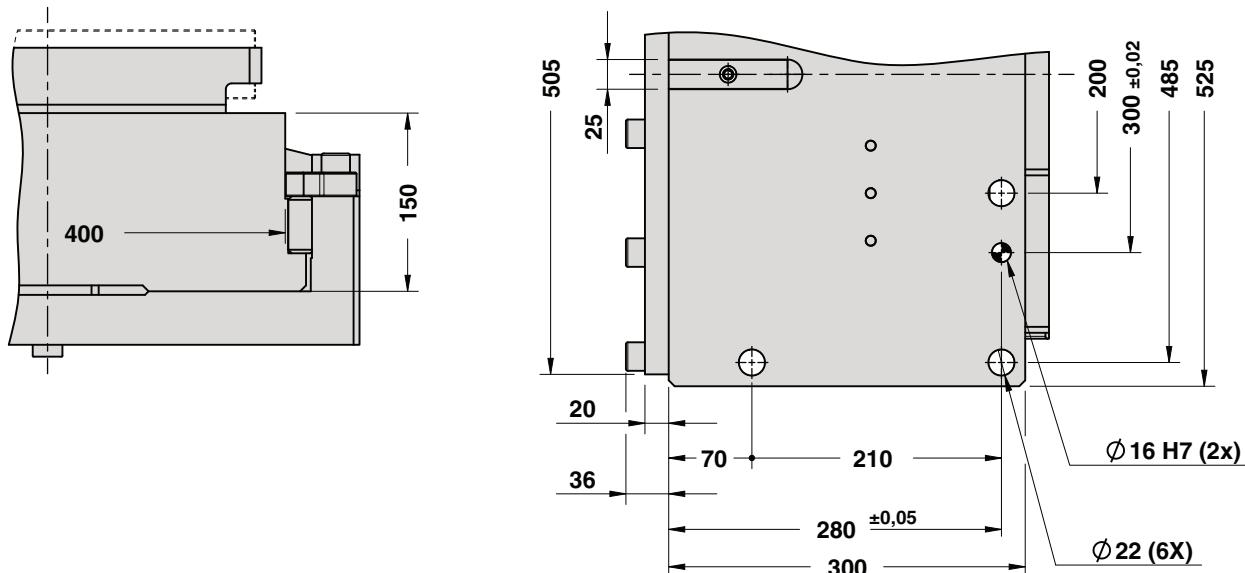
With Key - OPTION K

STOCK	ORDER EXAMPLE	Art.	Work Angle = 0°	Stroke = 60	OPTION K
		DHC400	00	60	K

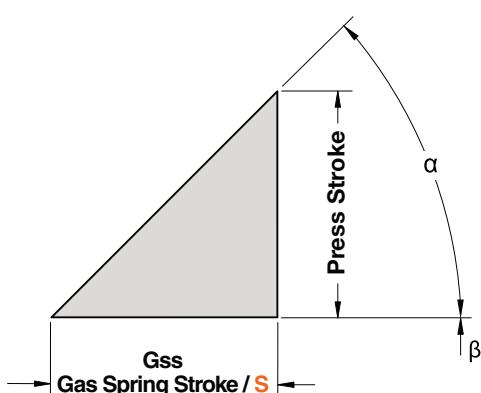


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

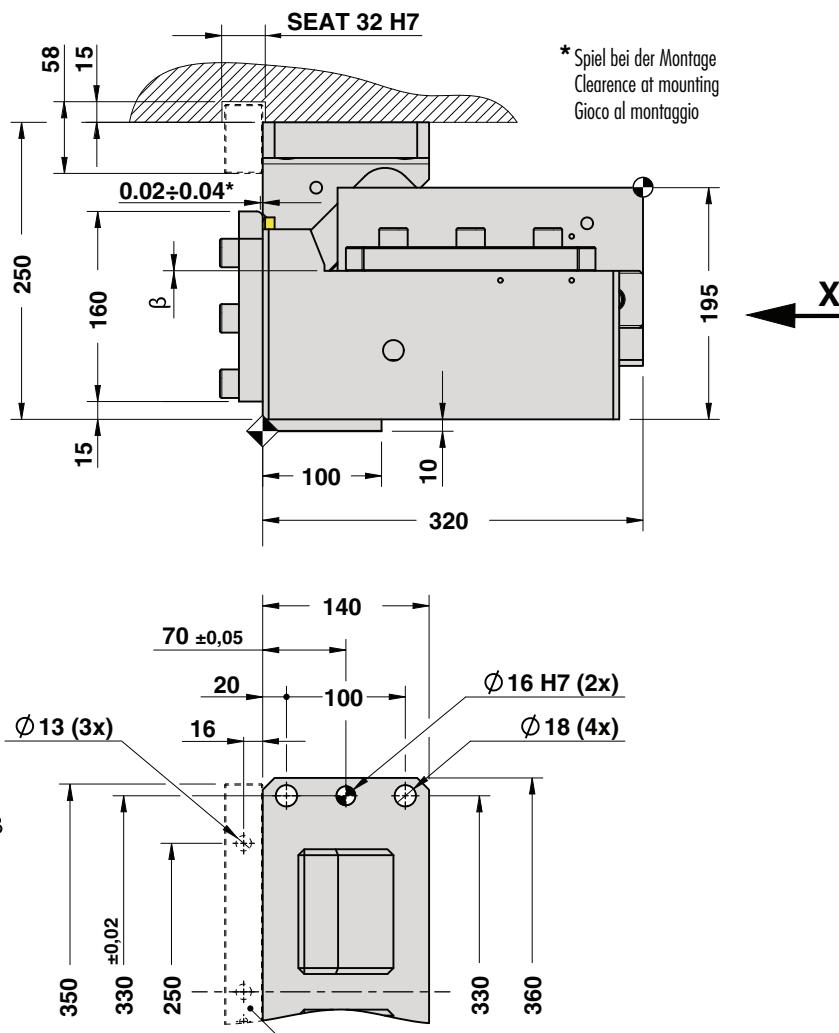
X VIEW



CAM DIAGRAM

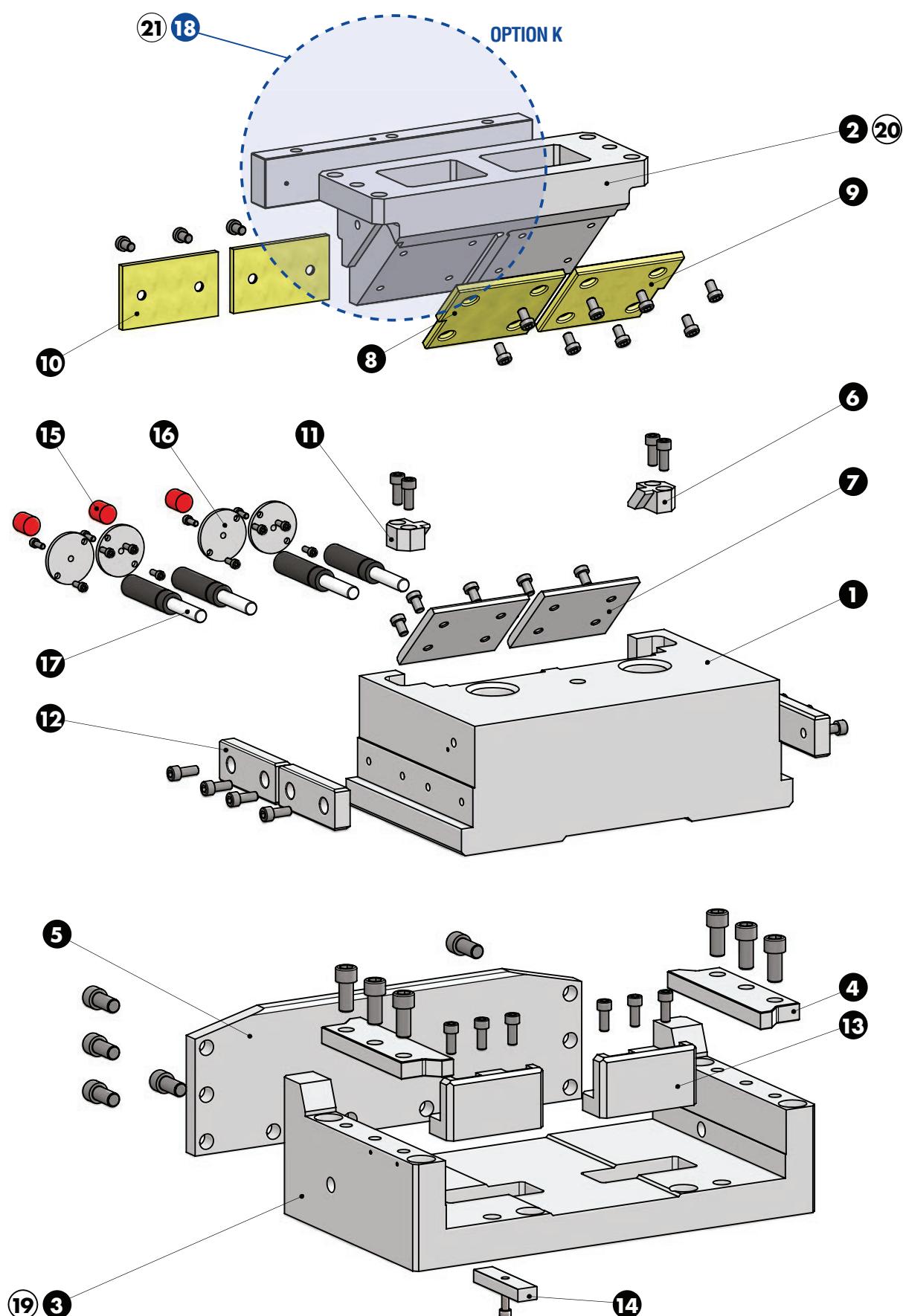


Work Angle	Inner Angle	Slider Work Stroke (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)
β	α	S	Ps	Gss
0°	45°	60	60	60





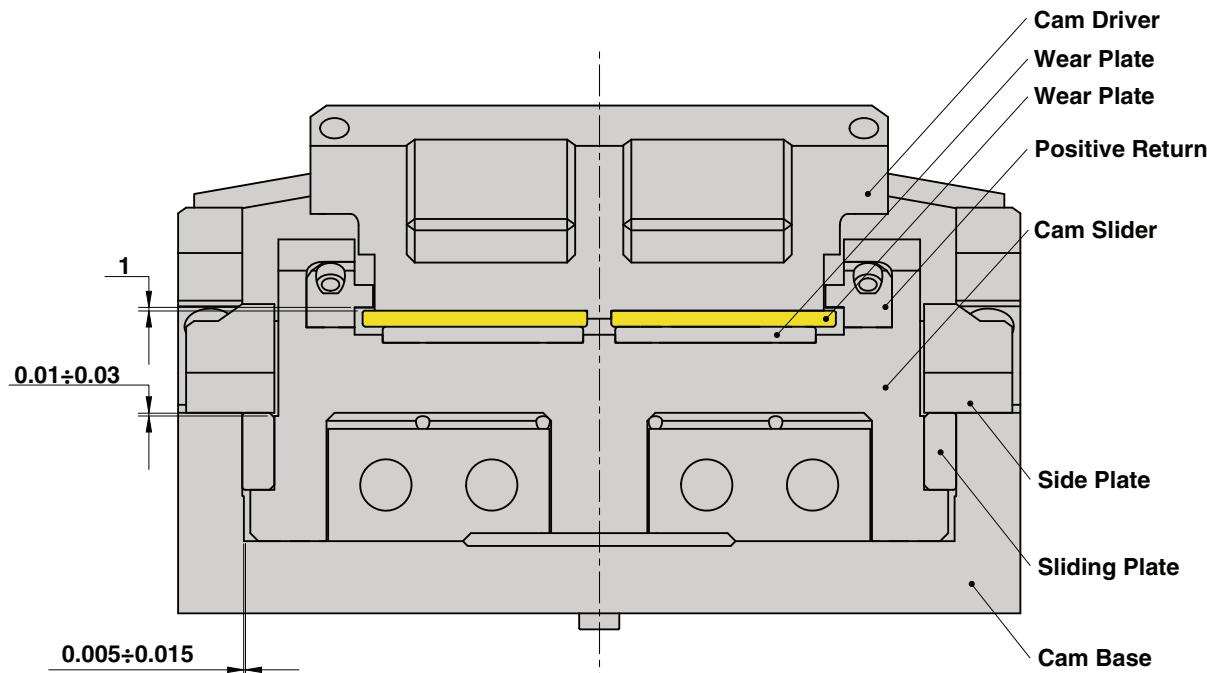
DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO





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



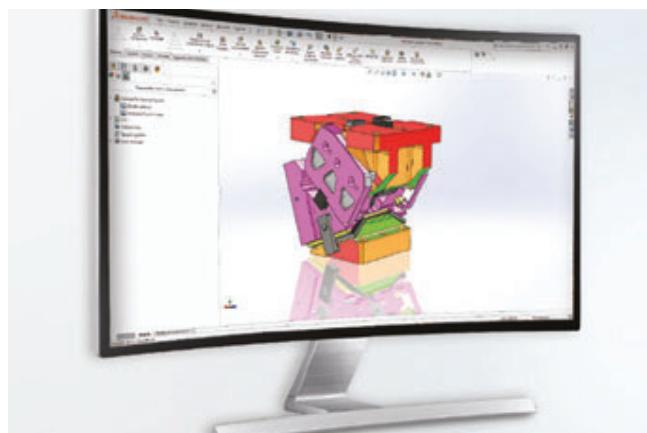
Cam Units DLD

Schieber DLD

Unità a Camme DLD

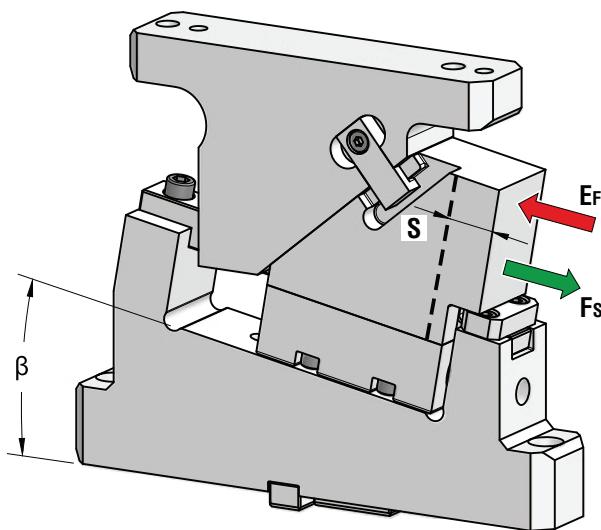
OMCR®
STANDARD DIE COMPONENTS

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	
DLD052	0÷20° (5° steps)	52	215÷255	52x75	40	0,53	906
DLD090	0÷15° (5° steps)	90	220÷225	90x82	79	1,05	910



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)
	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



WEB



WEB



WEB



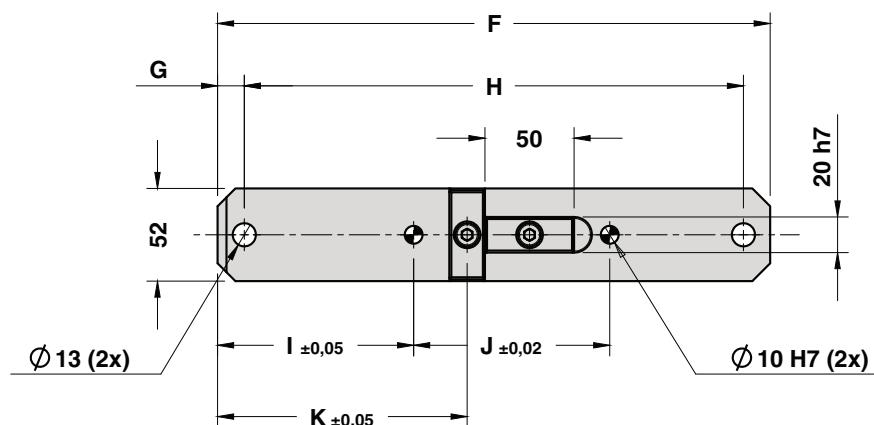
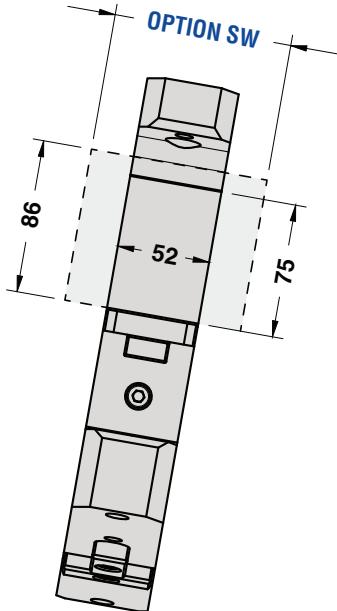
P.624

		OPTION CODE					
Art.	Work Angle = 5°	Stroke = 55	SL	SW			
DLD052	05	55	SL55	SW100			

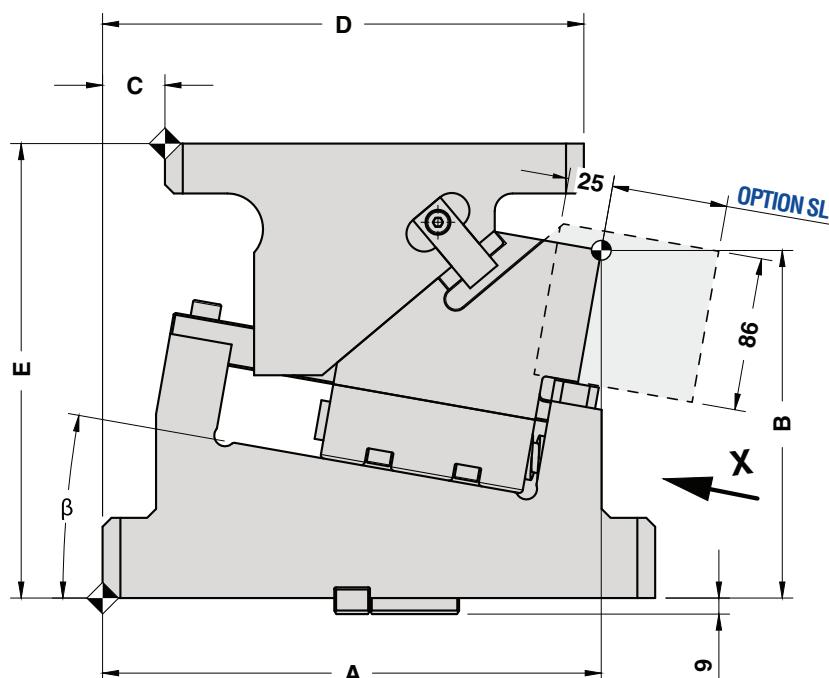
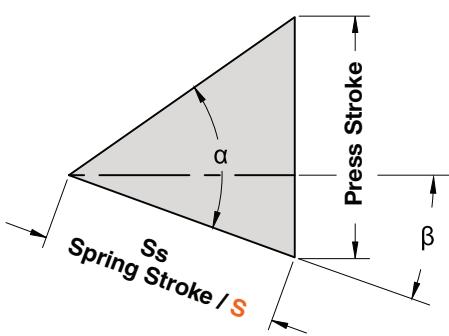
OMCR CODE	Work Angle	Stroke (mm)	Overall Dimensions (mm)														
			β	S	A	B	C	D	E	F	G	H	I	J	K	L	M
DLD052.00.55	0°	55	220	170	0	210	215	235	45	145	65	105	90	160	160	210	
DLD052.05.55	5°	55	269,87	195,66	35	260	255	310	15	280	110	110	140	175	175	225	
DLD052.10.55	10°	55	279,75	195,02	35	270	255	310	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

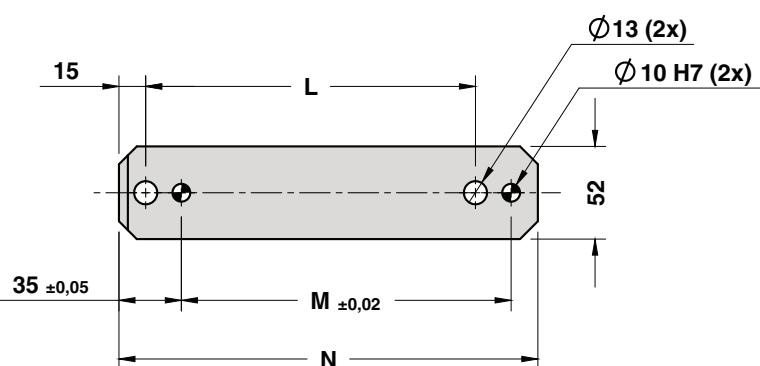
X VIEW



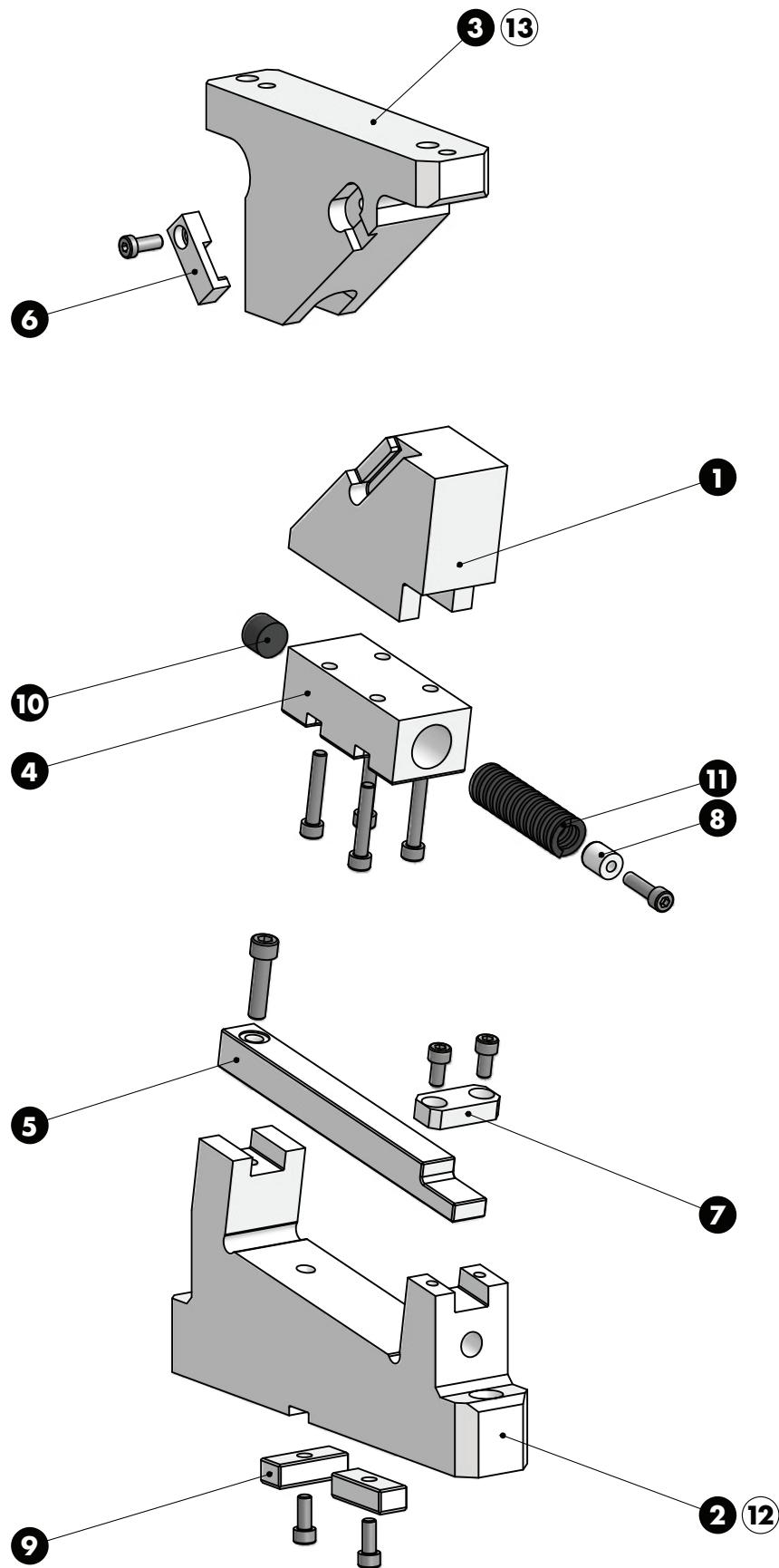
CAM DIAGRAM



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

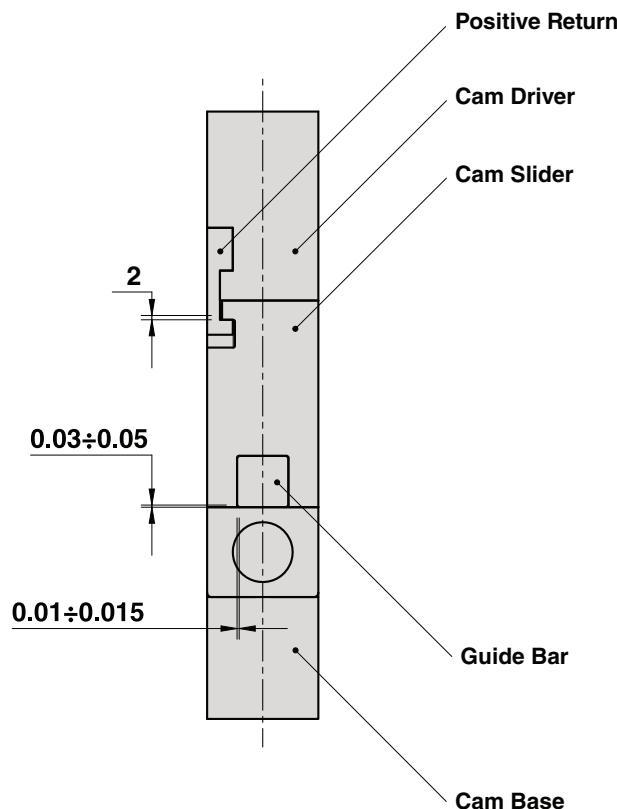


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES

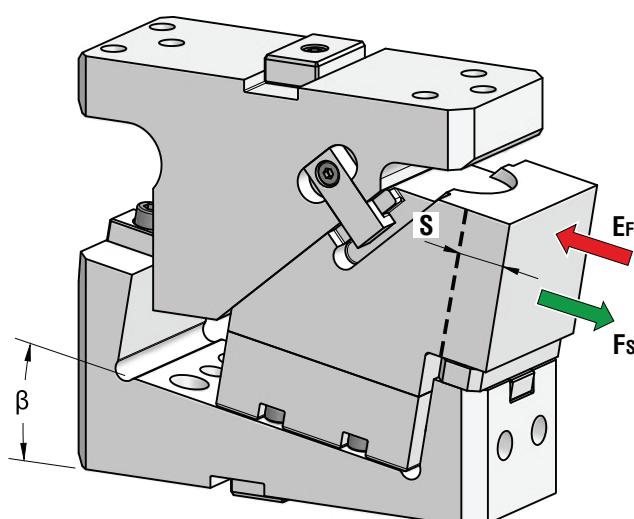


Cam Units DLD

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)
	β	S	Fs	Ef
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



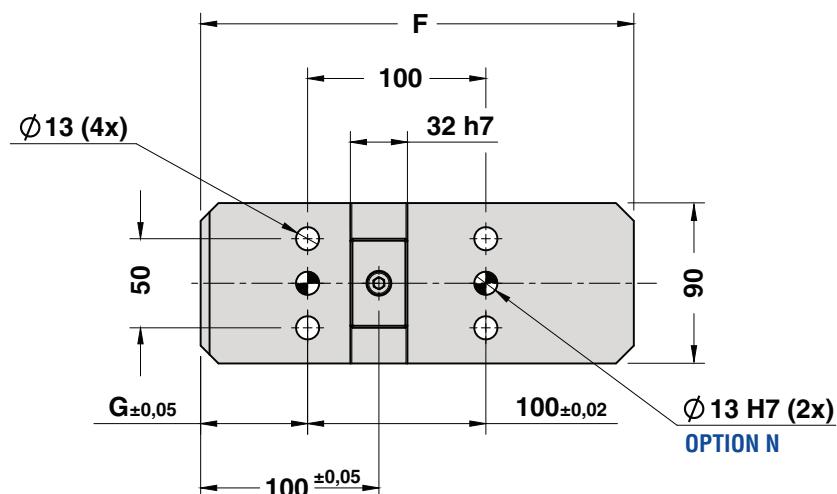
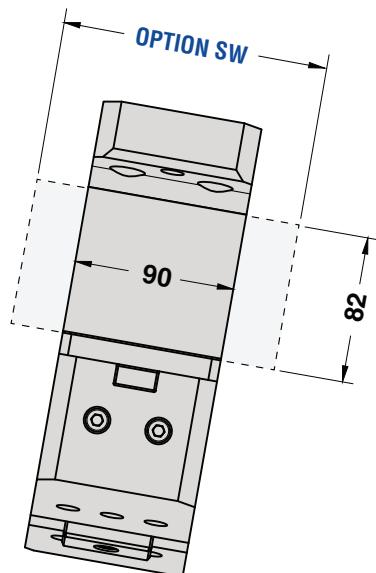
P.624

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
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

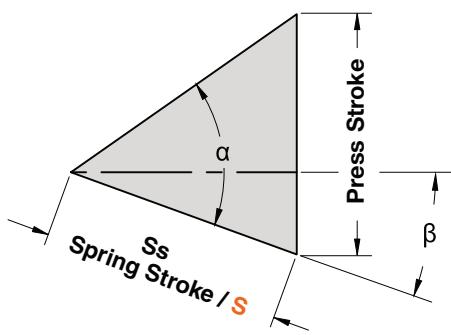
X VIEW



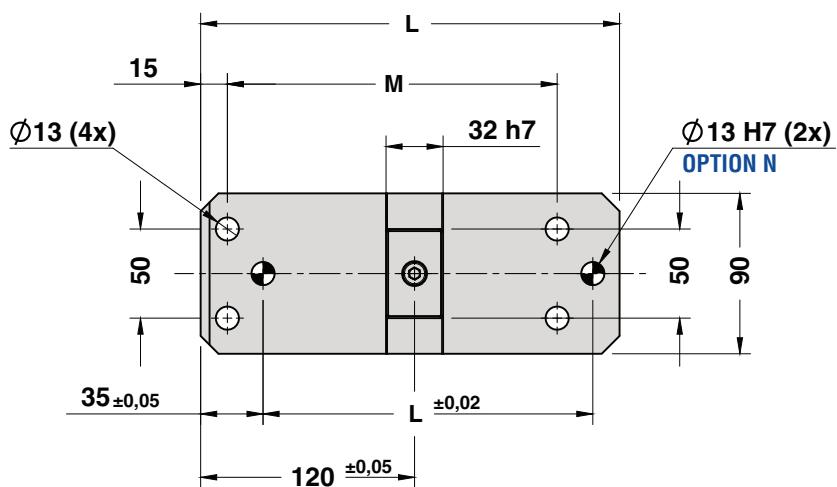
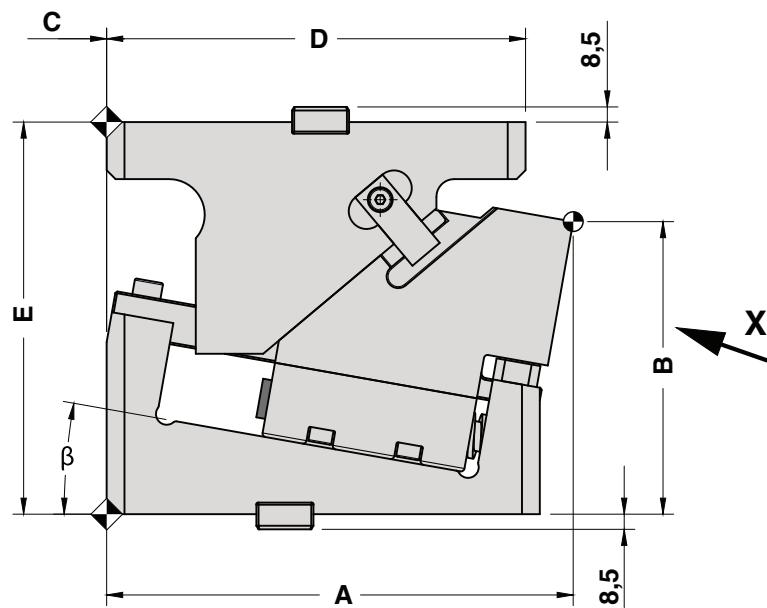
CAM DIAGRAM



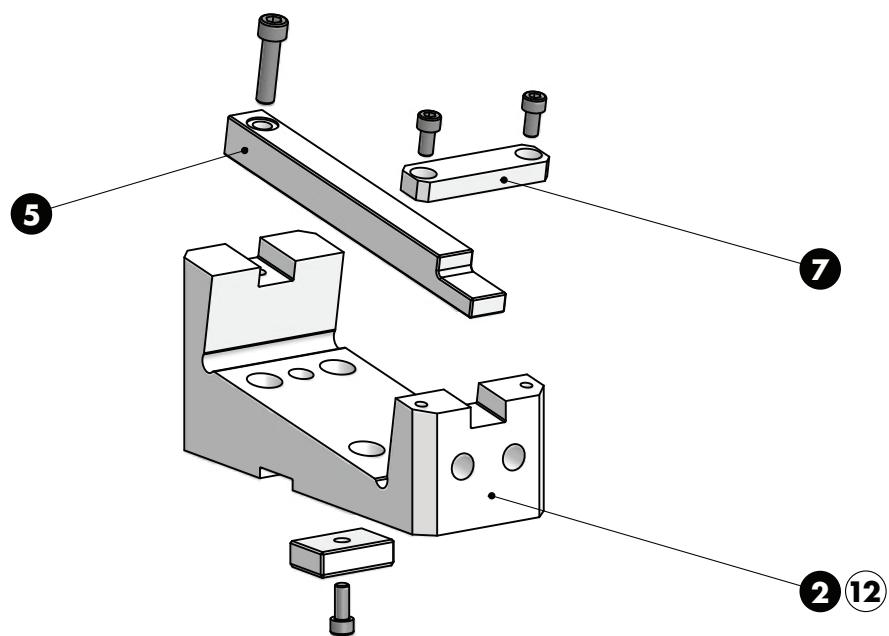
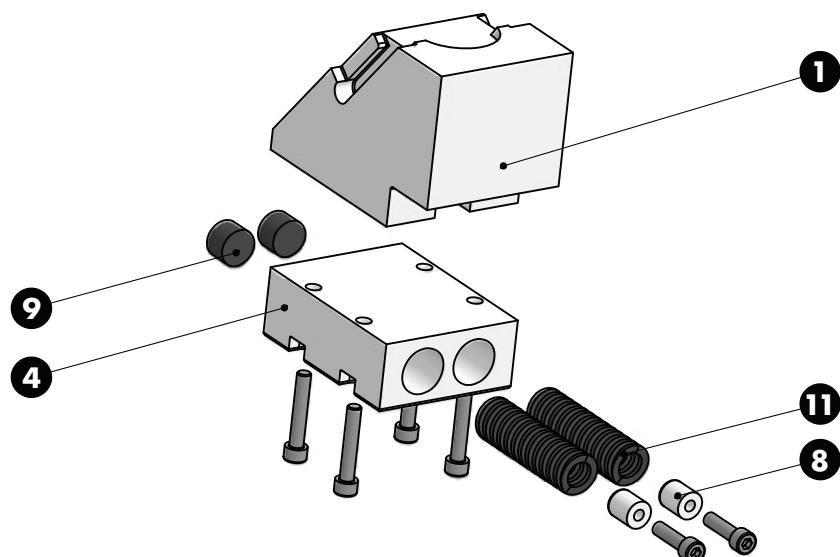
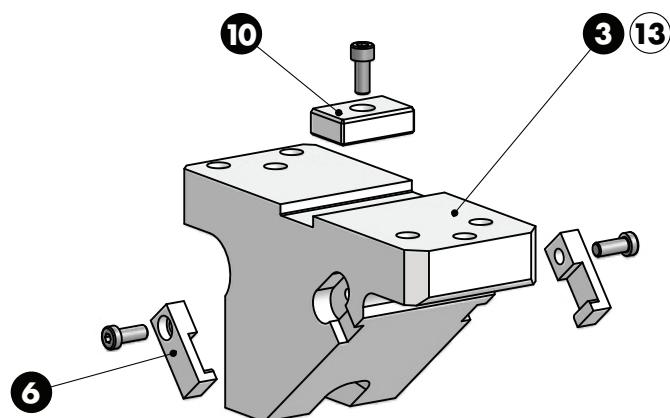
WEB



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

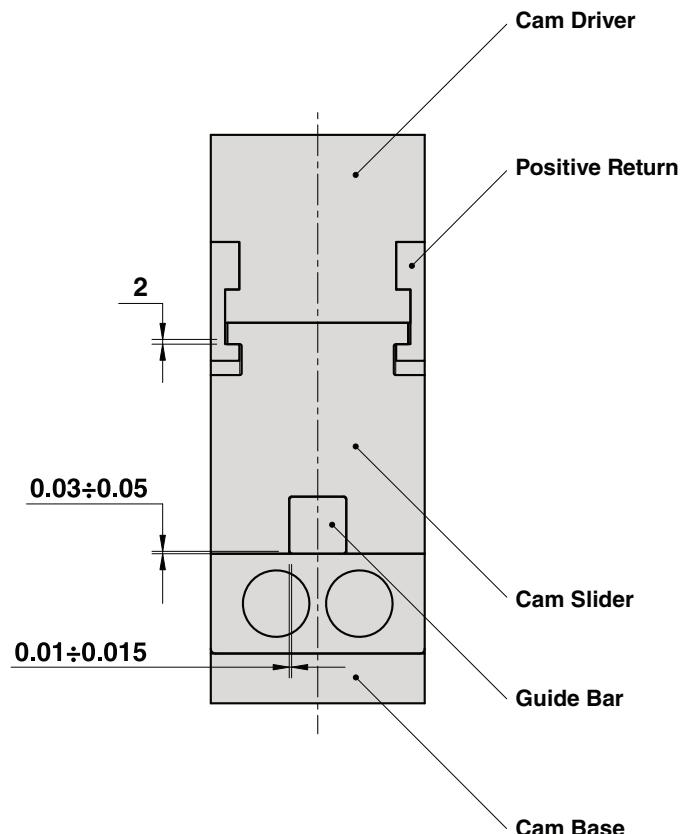


DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO



DIE MOUNTED CAM UNIT - HORIZONTALSCHIEBER - UNITÀ A CAMME A BASE STAMPO

SLIDER STRUCTURE, POSITIVE RETURN STRUCTURE AND CLEARANCES



Cam Units DLD

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