



SASSATELLI

Accessori per macchine utensili
Accessories for machine tools



CATALOGO • CATALOGUE **13/01**





Una crescita graduale ed equilibrata, uomini che credono nei loro obiettivi, hanno portato la Sassatelli all'ottenimento della certificazione di garanzia e qualità in conformità alle norme **UNI EN ISO 9001/2000**.

Un meritato traguardo per l'azienda, una garanzia di completa soddisfazione delle aspettative per i Clienti. Collabora con il Dipartimento di Meccanica e Aeronautica (DMA) dell'Università di Roma "La Sapienza" per ricerche rivolte allo studio, progettazione e costruzione di prototipi innovativi.

A gradual and well-balanced growth and the commitment of men who believe in their goals have allowed Sassatelli to attain the Guarantee and Quality Assurance certification in compliance with **UNI EN ISO 9001/2000** standards.

A well-deserved result for the company and a guarantee of fully meeting customers' expectations.

Sassatelli cooperates with the Mechanics and Aeronautics Department (DMA) of the University of Rome "La Sapienza" for searches aimed to the study, designing and construction of innovative prototypes.



SASSATELLI





La **SASSATELLI** si presenta ai propri Clienti con una pluriennale esperienza nella produzione di accessori per macchine utensili. La scelta di tecnologie specifiche ci permette di offrirVi un prodotto ad alto contenuto tecnologico.

La nostra azienda è strutturata in maniera tale da poter soddisfare le esigenze di una Clientela diversificata: dalla piccola alla grande fornitura.

Grandi e prestigiose aziende sono i testimoni del successo e della qualità dei nostri prodotti. Siamo dunque pronti a collaborare con Voi...

SASSATELLI appears before its customers with a pluriennial experience in the production of accessories for machine tools. The choice of specific technologies allows us to offer you high-technology products.

Our company has a structure which can satisfy the needs of differentiated customers: from small to big supplies.

Big and impressive companies testify the success and quality of our products.

We are ready to cooperate with you...







- ◆ I dati e le specifiche tecniche contenute nel presente catalogo possono essere oggetto di modifiche anche senza preavviso.
 - ◆ È vietata la riproduzione in ogni forma intera o parziale del seguente catalogo.
 - ◆ La SASSATELLI non si assume la responsabilità di eventuali errori di stampa dei dati tecnici.
 - ◆ Per ulteriori informazioni sulle caratteristiche tecniche dei nostri prodotti potete contattare il nostro ufficio tecnico che sarà a Vostra disposizione per ogni chiarimento.
 - ◆ A richiesta si eseguono accessori con dimensioni personalizzate.
 - ◆ Per l'ordinazione dei prodotti specificare il **Codice di riferimento**.
-
- ◆ The technical data and features contained in this catalogue can be changed without notice.
 - ◆ No part of this catalogue may be reproduced.
 - ◆ SASSATELLI is not responsible for possible misprints of technical data.
 - ◆ For further information about technical characteristics of our products you can contact our technical office which is at your disposal for any explanation.
 - ◆ Accessories with personalized dimensions can be manufactured on request.
 - ◆ Specify the **reference Code** for ordering the products.

| | Pg. |
|---|-----|
| CONTROPUNTE ROTANTI / Live centres | 8 |
| FUNGHI A TRONCO DI CONO / Truncated cone heads..... | 11 |
| CONTROPUNTE CON COMPENSAZIONE ASSIALE / Live centres with axial compensation | 16 |
| CUSPIDI INTERCAMBIABILI / Interchangeable tips | 28 |
| RICAMBI CONTROPUNTE ROTANTI / Spare parts for live centres | 30 |
| CONTROPUNTE PER LEGNO / Live centres for wood | 32 |
| CONTROPUNTE FISSE / Dead centres | 33 |
| | |
| TRASCINATORI FRONTALI / Front driving centres | 38 |
| BUSSOLA CONICA / Conic bush..... | 39 |
| TRASCINATORI FRONTALI PER DENTATURA / Face drivers for gear cutting..... | 40 |
| TRASCINATORI PER TUBI / Pipe driving centres..... | 48 |
| BRIDE DI TRASCINAMENTO / Driving dogs | 49 |
| | |
| FERMAPEZZO PER RETTIFICA / Stop for grinding | 50 |
| RAVVIVAMOLE / Grinding wheel dresser..... | 51 |
| PORTAMOLE / Grinding wheel holder..... | 52 |
| FLANGE PORTAMOLE - CONI PER ALLINEAMENTO - PROLUNGA PORTAMOLA PER INTERNI / Grinding wheel flange support - Alignment cones - Grinding wheel connectors for internal rectification spindles | 53 |
| GODRON SPECIAL | 54 |
| GODRON SPECIAL CN/MAG..... | 55 |
| GODRONATORI / Knurling devices..... | 56 |
| RONDELLE GODRONATRICI / Knurling washers..... | 58 |
| | |
| BUSSOLE DI RIDUZIONE / Reduction bushes..... | 59 |
| BUSSOLE CONICHE / Conical bushes..... | 64 |
| BUSSOLE ELASTICHE / Elastic bushes..... | 66 |
| BUSSOLE SPECIALI / Special bushes..... | 67 |
| | |
| MASCHIATORI MAS-CPT / Tapping machines MAS-CPT | 68 |
| BUSSOLE / Bushes | 69 |
| FILETTATORI E MASCHIATORI / Thread cutting and tapping machines..... | 71 |
| PORTAFILIERE PER CNC / Die holders for CNC..... | 74 |
| NOVITÀ / New | 75 |
| ACCESSORI SPECIALI / Special accessories..... | 76 |

8 - 33

1
38 - 49

2
50 - 58

3
59 - 67

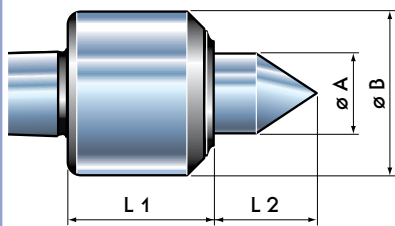
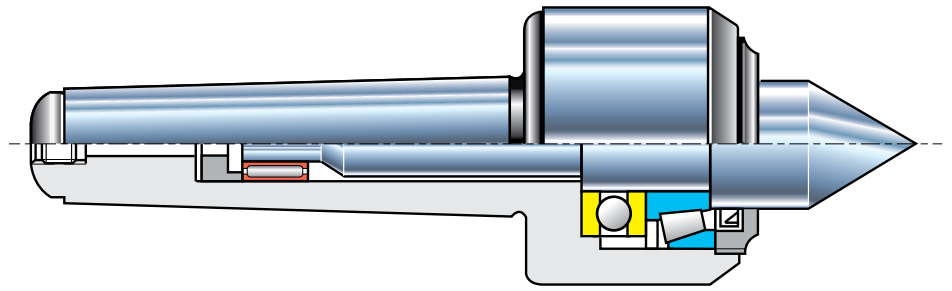
4
68 - 76

5

1

Contropunta strutturata con cuscinetti normali consigliata per torni con lavorazioni di medio carico e velocità non elevate. Corpo e albero temperati e rettificati, lubrificata con grasso permanente.

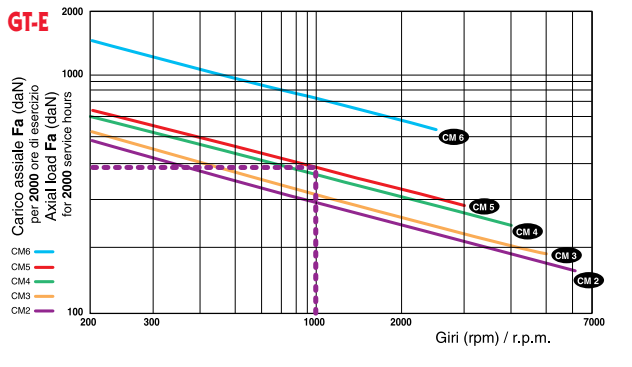
Shaped tailstock with normal bearings, recommended for lathes with medium-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated.



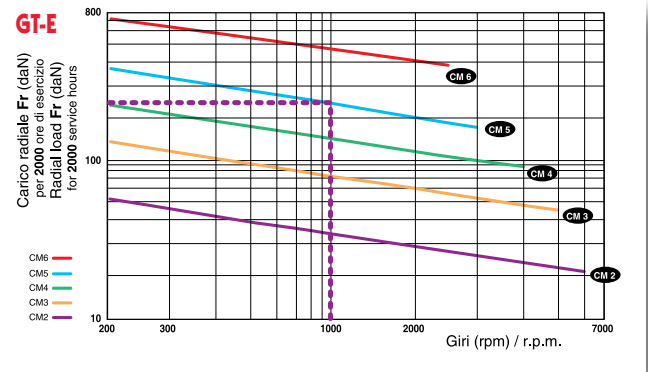
Contropunta rotante con albero integrale / Live centre with solid shaft

Mod. GT-E

| Cono Morse / Taper | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 812090 | 822100 | 832110 | 842120 | 852130 | 862140 |
| Peso / Weight (Kg) | 0,5 | 0,9 | 1,0 | 1,6 | 3,5 | 8,0 |
| Max giri/1' / r.p.m. | 8500 | 6000 | 5000 | 4000 | 3000 | 2500 |
| Eccent. ≤ | 0,008 | 0,008 | 0,008 | 0,008 | 0,008 | 0,01 |
| ø B (mm) | 38 | 48 | 55 | 61 | 80 | 94 |
| L 1 (mm) | 37 | 42 | 43 | 51 | 55 | 68 |
| ø A (mm) | 16 | 22 | 22 | 29 | 38 | 42 |
| L 2 (mm) | 20 | 25 | 27 | 38 | 45 | 51 |



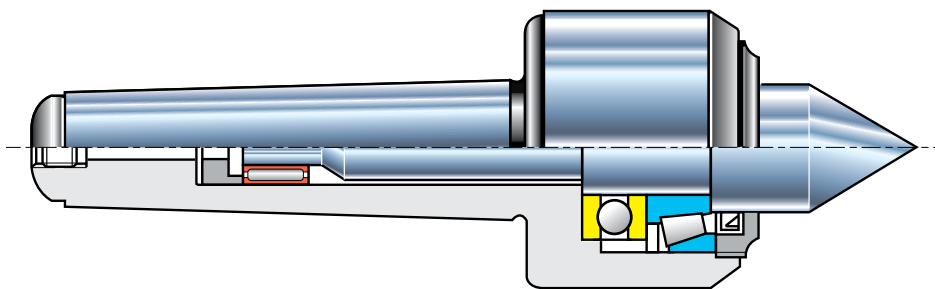
- Esempio della contropunta rotante **CM 5** Mod. GT-E a 1.000 g/m:
Carico Assiale (F_a)= 376 (daN)
- Example of live centre **CM 5** mod. GT-E at 1.000 rpm:
Axial load (F_a)= 376 (daN)



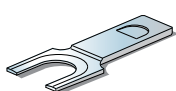
- Esempio della contropunta rotante **CM 5** Mod. GT-E a 1.000 g/m:
Carico Radiale (F_r)= 230 (daN)
 $F_r \times 2 =$ PESO PEZZO
- Example of live centre **CM 5** mod. GT-E at 1.000 rpm:
Radial load (F_r)= 230 (daN)
 $F_r \times 2 =$ PIECE WEIGHT

Contropunta strutturata con cuscinetti di precisione consigliata per torni con lavorazioni di medio carico e velocità non elevate. Corpo ed albero temperati e rettificati, lubrificata con grasso speciale permanente.

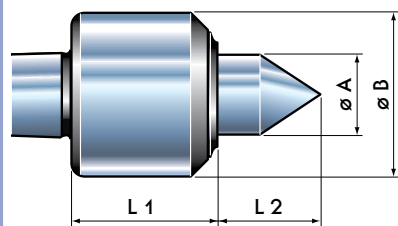
Shaped tailstock with precision bearings, recommended for lathes with medium-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.


Caratteristiche generali / Technical data Mod. GT-S

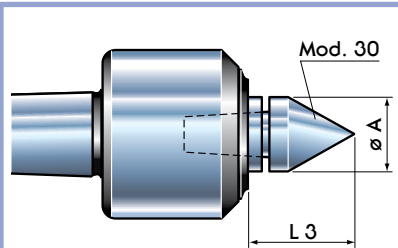
| Cono Morse / Taper | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------|-------|-------|-------|-------|-------|-------|
| Peso / Weight (Kg) | 0,5 | 0,9 | 1,0 | 1,6 | 3,5 | 8,0 |
| Max giri/1' / r.p.m. | 8500 | 6000 | 5000 | 4000 | 3000 | 2500 |
| Eccent. ≤ | 0,005 | 0,005 | 0,005 | 0,005 | 0,005 | 0,008 |
| ø B (mm) | 38 | 48 | 55 | 61 | 80 | 94 |
| L 1 (mm) | 37 | 42 | 43 | 51 | 55 | 68 |



Chiave per estrazione cuspidi vedere pag. 31
NON in dotazione
 Tips extraction wrench see page 31
NOT supplied

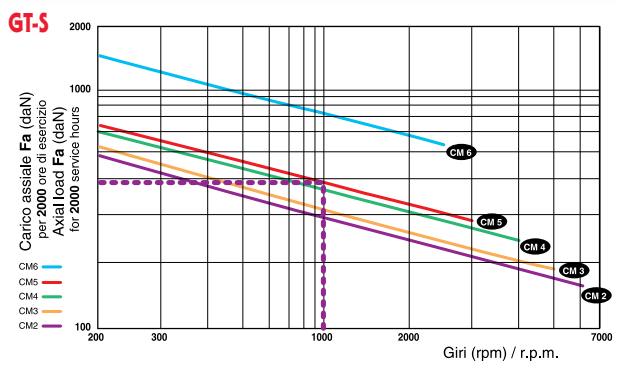

Contropunta rotante con albero integrale / Live centre with solid shaft
Mod. GT-S

| Cono Morse / Taper | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 812091 | 822101 | 832111 | 842121 | 852131 | 862141 |
| ø A (mm) | 16 | 22 | 22 | 29 | 38 | 42 |
| L 2 (mm) | 20 | 25 | 27 | 38 | 45 | 51 |

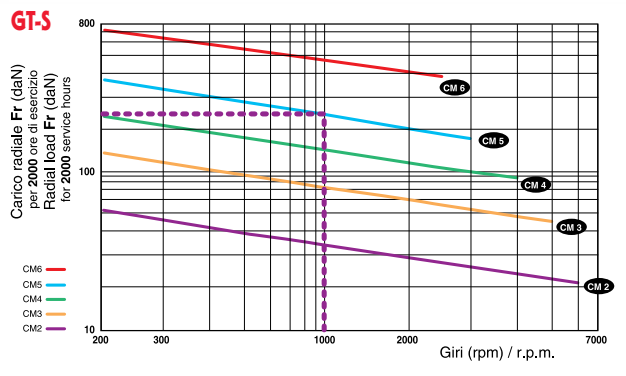

Contropunta rotante con cuspidi intercambiabili / Live centre with interchangeable tips
Mod. GT-AS

| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 823091 | 833101 | 843111 | 853121 | 863131 |
| Cuspide / Tip | 80 30 30 | 80 30 30 | 80 30 40 | 80 30 50 | 80 30 60 |
| Eccent. ≤ | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |
| ø A (mm) | 25 | 25 | 29 | 35 | 42 |
| L 3 (mm) | 35 | 36 | 40 | 48 | 49 |

Per cuspidi vedere pag. 28-29
 For tips see page



- Esempio della contropunta rotante CM 5 Mod. GT-S a 1.000 g/m:
Carico Assiale (Fa)= 376 (daN)
- Example of live centre CM 5 Mod GT-S at 1.000 rpm:
Axial load (Fa)= 376 (daN)

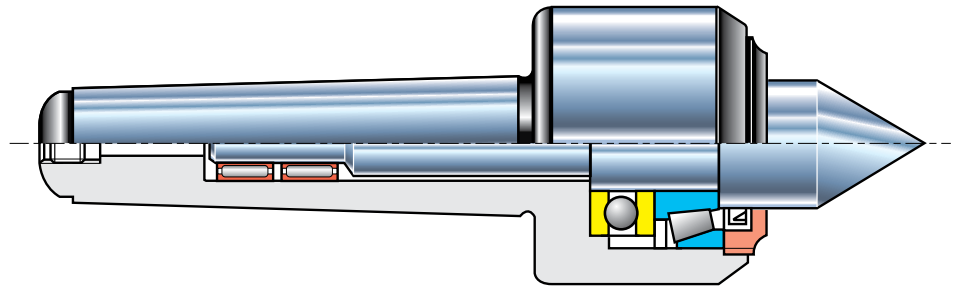


- Esempio della contropunta rotante CM 5 Mod. GT-S a 1.000 g/m:
Carico Radiale (Fr)= 230 (daN) - Fr x 2 = PESO PEZZO
- Example of live centre CM 5 mod. GT-S at 1.000 rpm:
Radial load (Fr)= 230 (daN) - Fr x 2 = PIECE WEIGHT

1

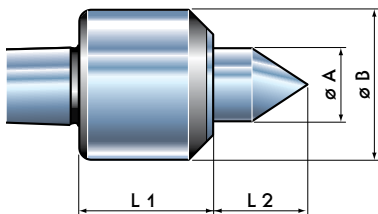
Contropunta strutturata con cuscinetti di precisione consigliata per torni con lavorazioni pesanti e velocità non elevate. Corpo e albero temperati e rettificati, lubrificata con grasso speciale permanente.

Shaped tailstock with precision bearings, recommended for lathes with heavy-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.

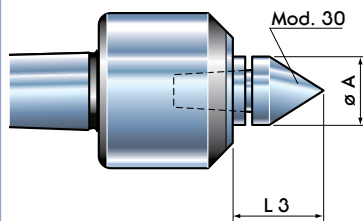

Caratteristiche generali / Technical data Mod. GT-M

| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 | 6 special | M80 | M100 |
|----------------------|-------|-------|-------|-------|-------|-----------|------|------|
| Peso / Weight (Kg) | 0,9 | 1,0 | 1,6 | 3,5 | 10,0 | 12,0 | 18,0 | 39,0 |
| Max giri/1' / r.p.m. | 7500 | 6000 | 4500 | 2800 | 2000 | 1700 | 1100 | 900 |
| Eccent. ≤ | 0,008 | 0,008 | 0,008 | 0,008 | 0,008 | 0,008 | 0,01 | 0,01 |
| ø B (mm) | 51 | 55 | 61 | 80 | 108 | 138 | 146 | 178 |
| L 1 (mm) | 43 | 43 | 51 | 59 | 88 | 116 | 116 | 134 |

Per consultare i grafici dei carichi assiali e radiali vedere a pag. 13. / For graphs of axial and radial loads see page 13.


Contropunta rotante con albero integrale / Live centre with solid shaft
Mod. GT-M

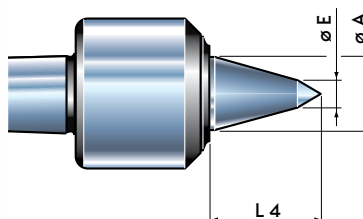
| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 | 6 special | M80 | M100 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 822102 | 832112 | 842122 | 852132 | 862142 | 862152 | 880802 | 801002 |
| ø A (mm) | 22 | 22 | 29 | 38 | 42 | 60 | 62 | 78 |
| L 2 (mm) | 25 | 28 | 38 | 47 | 55 | 61 | 75 | 77,5 |



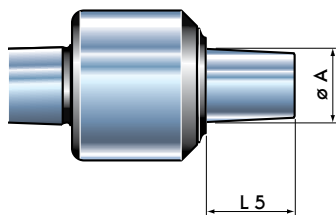
Per cuspidi vedere pag. 28-29
 For tips see page

Contropunta rotante con cuspidi intercambiabili / Live centre with interchangeable tips
Mod. GT-AM

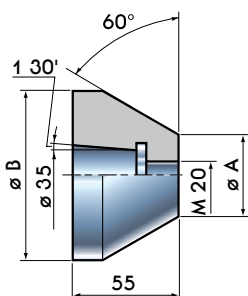
| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 | 6 special |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 823092 | 833102 | 843112 | 853122 | 863132 | 863142 |
| Cuspide / Tip | 80 30 30 | 80 30 30 | 80 30 40 | 80 30 50 | 80 30 60 | 80 30 60 F |
| Eccent. ≤ | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |
| ø A (mm) | 25 | 25 | 29 | 35 | 42 | 42 |
| L 3 (mm) | 35 | 36 | 40 | 48 | 55 | 61 |


Contropunta rotante con punta prolungata / Live centre with aiguille
Mod. GT-MC

| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 | 6 special |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 822202 | 832212 | 842222 | 852232 | 862242 | 862252 |
| L 4 (mm) | 32 | 40 | 50 | 68 | 70 | 93 |
| ø E (mm) | 6 | 6 | 8 | 12 | 16 | 20 |
| ø A (mm) | 22 | 22 | 29 | 38 | 42 | 60 |

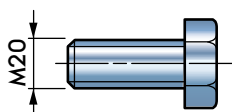
Mod. GT-MTC
Contropunta rotante a tronco di cono / Truncated cone live centre


| Cono Morse / Taper | 3 | 4 | 5 | 6 | 6 special | M80 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 834092 | 844102 | 854112 | 864122 | 864132 | 884142 |
| $\varnothing A$ (mm) | 35 | 35 | 35 | 35 | 35 | 35 |
| L 5 (mm) | 43 | 43 | 43 | 43 | 44 | 44 |

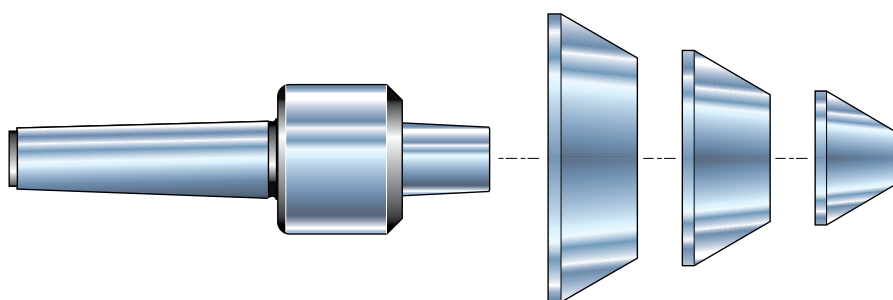
Funghi a tronco di cono a 60° applicabili alle contropunte del modello GT-MTC
60° truncated cone heads for live centres of model GT-MTC


| CODICE CODE | 404200 | 404210 | 404220 | 404230 | 404240 | 404250 | 404260 | 404270 | 404280 | 404290 | 404300 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| $\varnothing A$ (mm) | 45 | 95 | 145 | 195 | 245 | 295 | 345 | 395 | 445 | 495 | 545 |
| $\varnothing B$ (mm) | 98 | 148 | 198 | 248 | 298 | 348 | 398 | 448 | 498 | 545 | 600 |
| Eccent. \leq | IT 3 | IT 4 | IT 4 | IT 4 | IT 5 | IT 5 | IT 5 | IT 6 | IT 6 | IT 6 | IT 6 |
| Peso / Weight (Kg) | 1,6 | 3,9 | 7,1 | 10,7 | 15,0 | 21,0 | 20,0 | 29,0 | 34,0 | 32,0 | 36,0 |

A richiesta si eseguono funghi con $\varnothing A$ e $\varnothing B$ forniti dal cliente / Heads with diameters A and B, supplied by the customer, can be carried out on demand.

Vite estrattore / Extraction screw



| | |
|--------------------|---------------|
| CODICE CODE | 404400 |
| 404400 | Ch30 |

ESEMPIO / Example


Contropunta rotante di precisione a tronco di cono, progettata sulla meccanica della serie GT-M. La particolare forma dell'albero permette una semplice e rapida intercambiabilità dei conici per lavorazioni di tubi o corpi cavi da $\varnothing 45$ mm a $\varnothing 600$ mm.

Truncated cone precision live centre, designed on the mechanics of GT-M series. The special shape of the shaft allows the easy and fast interchangeability of the conic heads for working pipes and hollow bodies from \varnothing mm. 45 to \varnothing mm. 600

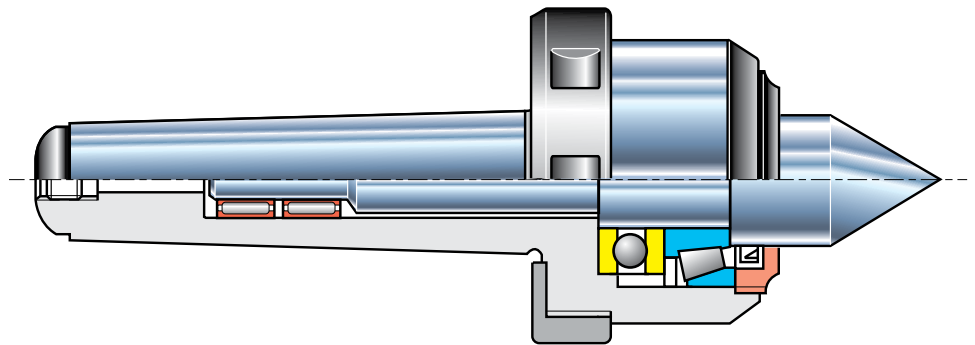
Richiesta speciale / Special request

| $\varnothing A$ | $\varnothing B$ |  | | | |
|-----------------|-----------------|---|--|--|--|
| | | | | | |

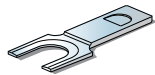
1

Contropunta con ghiera di estrazione strutturata con cuscinetti di precisione consigliata per torni con lavorazioni pesanti e velocità non elevate. Corpo e albero temperati e rettificati, lubrificata con grasso speciale permanente.

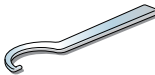
Shaped tailstock with extractor nut with precision bearings recommended for lathes with heavy-load machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.


Caratteristiche generali / Technical data Mod. GT-MG

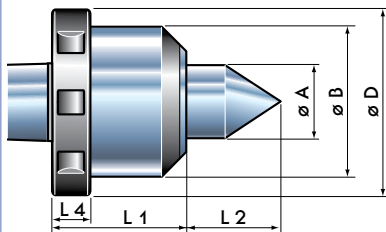
| | 3 | 4 | 5 | 6 | 6 special | M80 |
|----------------------|-------|-------|-------|-------|-----------|------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 | 6 special | M80 |
| Peso / Weight (Kg) | 1,0 | 1,6 | 3,5 | 10,0 | 12,0 | 18,0 |
| Max giri/1' / r.p.m. | 6000 | 4500 | 2800 | 2000 | 1700 | 1100 |
| Eccent. ≤ | 0,008 | 0,008 | 0,008 | 0,008 | 0,008 | 0,01 |
| ø B (mm) | 55 | 61 | 80 | 108 | 138 | 146 |
| L 1 (mm) | 47 | 55 | 63 | 92 | 116 | 117 |
| ø D (mm) | 69 | 74 | 92 | 118 | 148 | 148 |
| L 4 (mm) | 22 | 24 | 24 | 29 | 30 | 30 |



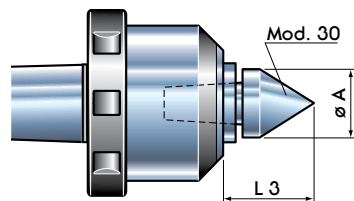
Chiave per estrazione cuspidi vedere pag. 31
NON in dotazione
Tips extraction wrench see page 31
NOT supplied



Chiave per ghiera vedere pag. 31
NON in dotazione
Nut wrench see page 31
NOT supplied

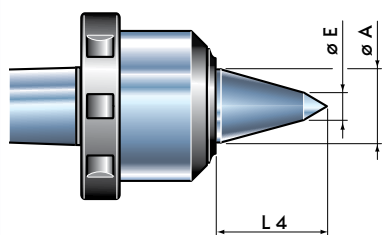

Contropunta rotante con albero integrale / Live centre with solid shaft
Mod. GT-MG

| | 3 | 4 | 5 | 6 | 6 special | M80 |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 | 6 special | M80 |
| CODICE / CODE | 8302112 | 8402122 | 8502132 | 8602142 | 8602152 | 8800802 |
| ø A (mm) | 22 | 29 | 38 | 42 | 60 | 62 |
| L 2 (mm) | 28 | 38 | 47 | 55 | 61 | 75 |


Contropunta rotante con cuspidi intercambiabili / Live centre with interchangeable tips
Mod. GT-AMG

| | 3 | 4 | 5 | 6 | 6 special |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 | 6 special |
| CODICE / CODE | 8303102 | 8403112 | 8503122 | 8603132 | 8603142 |
| Cuspide / Tip | 80 30 30 | 80 30 40 | 80 30 50 | 80 30 60 | 80 30 60 F |
| Eccent. ≤ | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |
| ø A (mm) | 25 | 29 | 35 | 42 | 42 |
| L 3 (mm) | 36 | 40 | 48 | 55 | 61 |

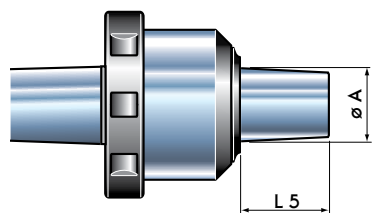
Per cuspidi vedere pag. 28-29
For tips see page 28-29


Contropunta rotante con punta prolungata / Live centre with aiguille
Mod. GT-MCG

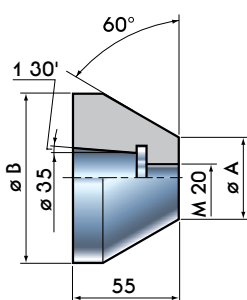
| | 3 | 4 | 5 | 6 | 6 special |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 | 6 special |
| CODICE / CODE | 8302212 | 8402222 | 8502232 | 8602242 | 8602252 |
| L 4 (mm) | 40 | 50 | 68 | 70 | 93 |
| ø E (mm) | 6 | 8 | 12 | 16 | 20 |
| ø A (mm) | 22 | 29 | 38 | 42 | 60 |

Contropunta rotante di precisione a tronco di cono, progettata sulla meccanica della serie GT-M. La particolare forma dell'albero permette una semplice e rapida intercambiabilità dei funghi conici per lavorazioni di tubi o corpi cavi da \varnothing 45 mm a \varnothing 600 mm (per es. vedi pag. 11).

Truncated cone precision live centre, designed on the mechanics of GT-M series. The special shape of the shaft allows the easy and fast interchangeability of the conic heads for working pipes and hollow bodies from \varnothing mm. 45 to \varnothing mm. 600 (i.e. see page 11).

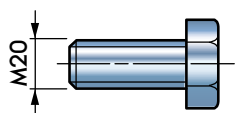

Contropunta rotante a tronco di cono / Truncated cone live centre
Mod. GT-MTCG

| Cono Morse / Taper | 3 | 4 | 5 | 6 | 6 special |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| CODICE / CODE | 8304092 | 8404102 | 8504112 | 8604122 | 8604132 |
| \varnothing A (mm) | 35 | 35 | 35 | 35 | 35 |
| L 5 (mm) | 43 | 43 | 43 | 43 | 44 |

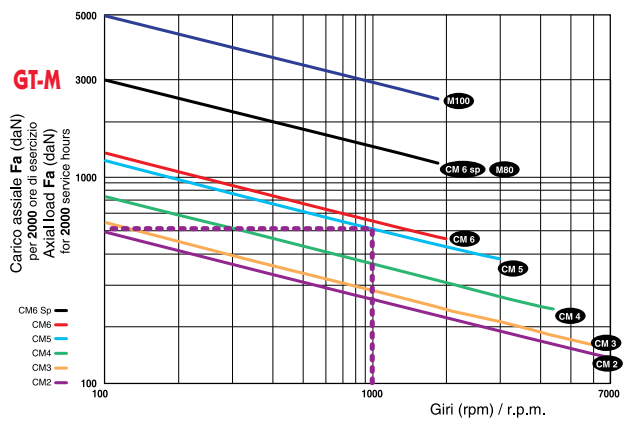

**Funghi a tronco di cono a 60° applicabili alle contropunte del modello GT-MTCG
60° truncated cone heads for live centres of model GT-MTCG**

| CODICE CODE | 404200 | 404210 | 404220 | 404230 | 404240 | 404250 | 404260 | 404270 | 404280 | 404290 | 404300 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| \varnothing A (mm) | 45 | 95 | 145 | 195 | 245 | 295 | 345 | 395 | 445 | 495 | 545 |
| \varnothing B (mm) | 98 | 148 | 198 | 248 | 298 | 348 | 398 | 448 | 498 | 545 | 600 |
| Eccent. \leq | IT 3 | IT 4 | IT 4 | IT 4 | IT 5 | IT 5 | IT 5 | IT 6 | IT 6 | IT 6 | IT 6 |
| Peso / Weight (Kg) | 2,1 | 4,7 | 8,2 | 12,2 | 17,3 | 18,2 | 22,2 | 26,4 | 31,1 | 42,4 | 45,6 |

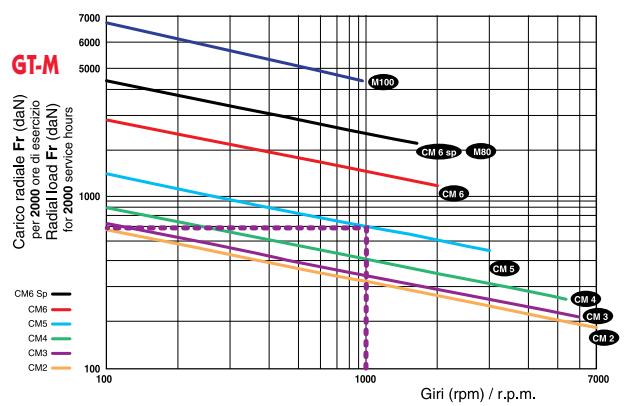
A richiesta si eseguono funghi con \varnothing A e \varnothing B forniti dal cliente / Heads with diameters A and B, supplied by the customer, can be carried out on demand.


Vite estrattore / Extraction screw

| | |
|--------------------|---------------|
| CODICE CODE | 404400 |
| 404400 | Ch30 |



- Esempio della contropunta rotante **CM 5** Mod. GT-M a 1.000 g/m:
Carico Assiale (Fa)= 527 (daN)
- Example of live centre **CM 5** mod. GT-M at 1.000 rpm:
Axial load (Fa)= 527 (daN)

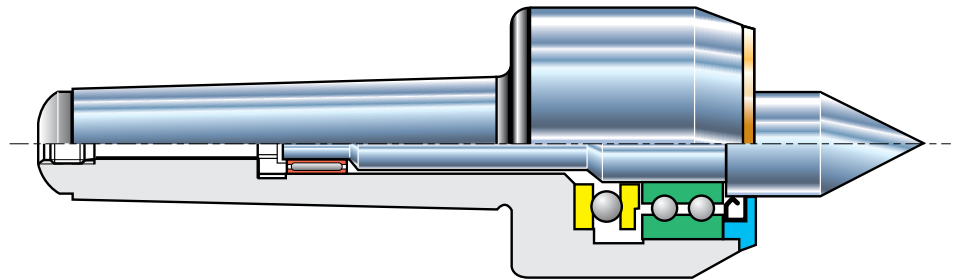


- Esempio della contropunta rotante **CM 5** Mod. GT-M a 1.000 g/m:
Carico Radiale (Fr)= 598 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 5** mod. GT-M at 1.000 rpm:
Radial load (Fr)= 598 (daN)
Fr x 2 = PIECE WEIGHT

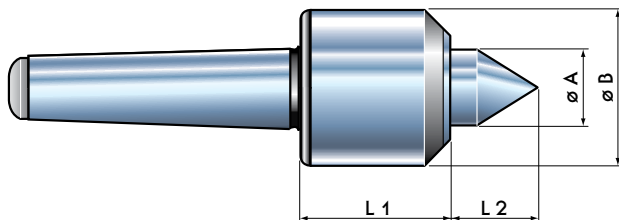
1

Contropunta strutturata con cuscinetti di precisione consigliata per torni con lavorazioni di medio carico e velocità elevate. Corpo e albero temperati e rettificati, lubrificata con grasso permanente.

Shaped tailstock with precision bearings recommended for lathes with medium-load machinings and high speeds. Hardened and rectified body and shaft, permanently lubricated.

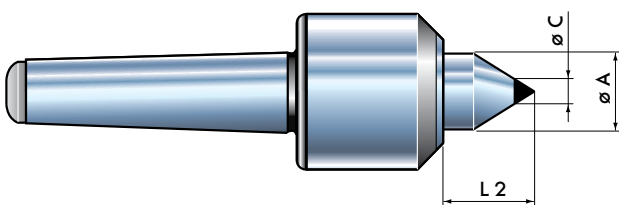

Caratteristiche generali / Technical data Mod. GT-V

| | 3 | 4 | 5 | 6 |
|----------------------|-------|-------|-------|-------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| Peso / Weight (Kg) | 1,0 | 1,65 | 3,55 | 8,5 |
| Max giri/1' / r.p.m. | 7000 | 5500 | 4500 | 3200 |
| Eccent. ≤ | 0,005 | 0,005 | 0,005 | 0,008 |
| ø B (mm) | 55 | 61 | 80 | 93 |
| L 1 (mm) | 47 | 55 | 63 | 73 |


Contropunta rotante con albero integrale
 Live centre with solid shaft

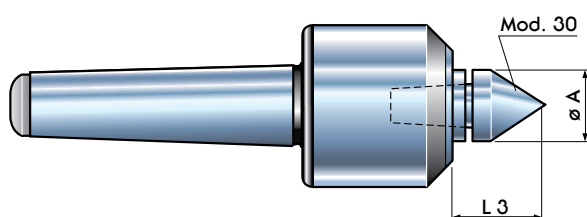
Mod. GT-V

| | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| CODICE / CODE | 832161 | 842171 | 852181 | 862191 |
| ø A (mm) | 22 | 29 | 38 | 42 |
| L 2 (mm) | 28 | 40 | 48 | 55 |


Contropunta rotante con punta in metallo duro
 Live centre with hard metal centre

Mod. GT-VW

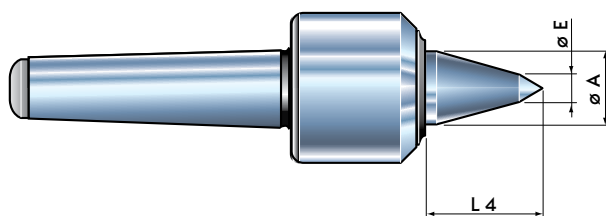
| | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| CODICE / CODE | 832163 | 842173 | 852183 | 862193 |
| ø C (mm) | 10 | 12 | 18 | 20 |
| ø A (mm) | 22 | 29 | 38 | 42 |
| L 2 (mm) | 28 | 40 | 48 | 55 |


Contropunta rotante con cuspidi intercambiabili
 Live centre with interchangeable tips

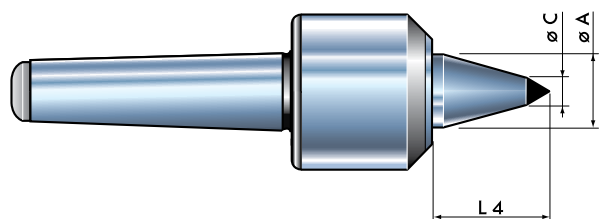
Mod. GT-VA

| | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| CODICE / CODE | 832162 | 842172 | 852182 | 862192 |
| Cuspide / Tip | 80 30 30 | 80 30 40 | 80 30 50 | 80 30 60 |
| Eccent. ≤ | 0,01 | 0,01 | 0,01 | 0,02 |
| ø A (mm) | 25 | 29 | 35 | 42 |
| L 3 (mm) | 37 | 40,5 | 46 | 55 |

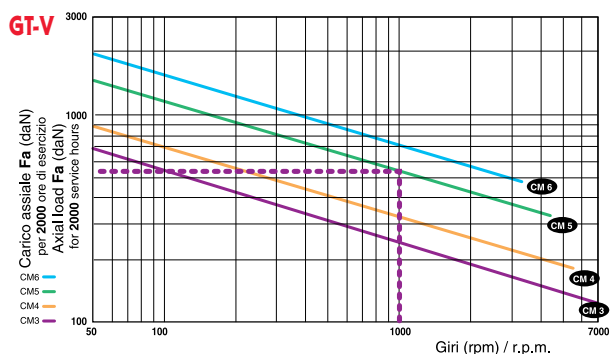
Per cuspidi vedere pag. 28-29
 For tips see page

Mod. GT-VC

Contropunta rotante con punta prolungata
Live centre with aiguille

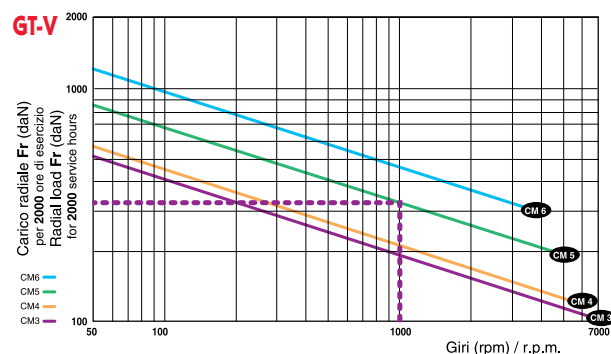
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 832164 | 842174 | 852184 | 862194 |
| ø E (mm) | 6 | 8 | 12 | 15 |
| L 4 (mm) | 42 | 51 | 56 | 88 |
| ø A (mm) | 22 | 29 | 38 | 42 |

Mod. GT-VCW

Contropunta rotante con punta prolungata in metallo duro
Live centre with hard metal aiguille

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 832165 | 842175 | 852185 | 862195 |
| ø C (mm) | 6 | 8 | 10 | 12 |
| L 4 (mm) | 42 | 51 | 56 | 88 |
| ø A (mm) | 22 | 29 | 38 | 42 |



- Esempio della contropunta rotante **CM 5** Mod. GT-V a 1.000 g/m:
Carico Assiale (Fa)= 546 (daN)
- Example of live centre **CM 5** mod. GT-V at 1.000 rpm:
Axial load (Fa)= 546 (daN)



- Esempio della contropunta rotante **CM 5** Mod. GT-V a 1.000 g/m:
Carico Radiale (Fr)= 320 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 5** mod. GT-V at 1.000 rpm:
Radial load (Fr)= 320 (daN)
Fr x 2 = PIECE WEIGHT

1

Contropunta con compensazione assiale per utilizzo su torrette. Attacco VDI.

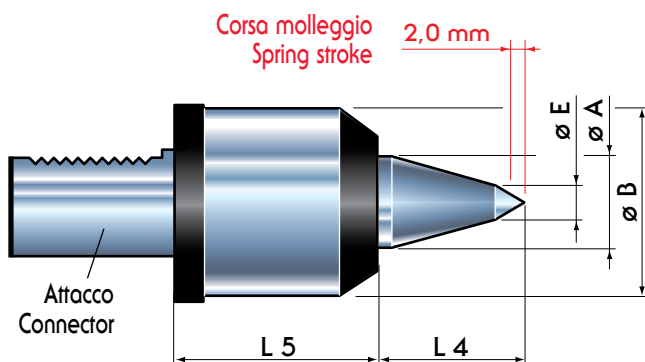
Live centres with axial compensation recommended for use on turret. Connector VDI.




Chiave per estrazione cuspidi vedere pag. 31
NON in dotazione
 Tips extraction wrench see page 31
NOT supplied

Caratteristiche generali / Technical data Mod. VDI-C VDI-A

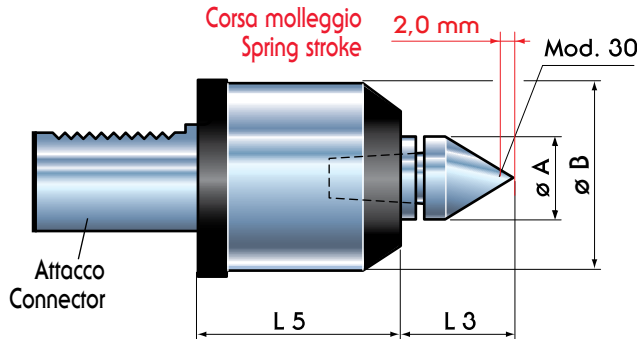
| Attacco / Connector | VDI 30 | VDI 40 |
|----------------------|--------|--------|
| Peso / Weight (Kg) | 2 | 3,7 |
| Max giri/1' / r.p.m. | 5500 | 4500 |
| Eccent. ≤ | 0,005 | 0,005 |
| ∅ B (mm) | 61 | 80 |
| L 5 (mm) | 79 | 85 |



Contropunta rotante VDI-C molleggiata con punta prolungata
 Sprung VDI-C live centre with aiguille

Mod. VDI-C

| Attacco / Connector | VDI 30 | VDI 40 |
|----------------------|---------------|---------------|
| CODICE / CODE | 802176 | 802186 |
| ∅ A (mm) | 29 | 38 |
| L 4 (mm) | 51 | 56 |
| ∅ E (mm) | 8 | 12 |



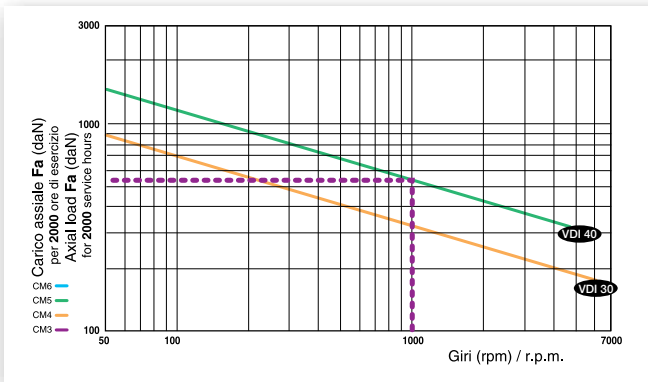
Contropunta rotante VDI-A molleggiata con cuspidi intercambiabile
Sprung VDI-A live centre with interchangeable tip

Mod. VDI-A

| Attacco / Connector | VDI 30 | VDI 40 |
|----------------------|---------------|---------------|
| CODICE / CODE | 802177 | 802187 |
| Cuspide / Tip | 80 30 40 | 80 30 50 |
| $\varnothing A$ (mm) | 29 | 35 |
| L 3 (mm) | 41 | 47 |

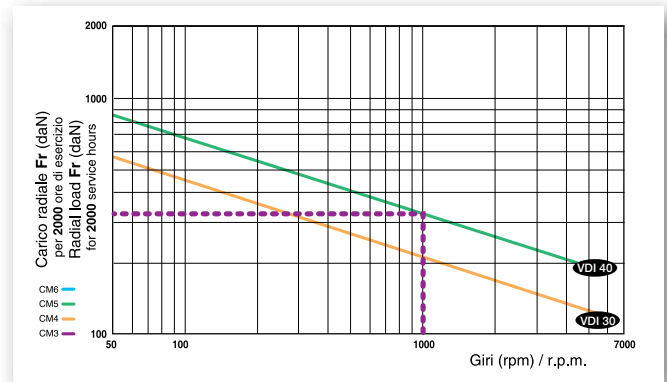
Per cuspidi vedere pag. 28-29
For tips see page 28-29

GT-VDI



- Esempio della contropunta rotante CM 5 Mod. GT-V a 1.000 g/m:
Carico Assiale (F_a)= 546 (daN)
- Example of live centre CM 5 mod. GT-V at 1.000 rpm:
Axial load (F_a)= 546 (daN)

GT-VDI



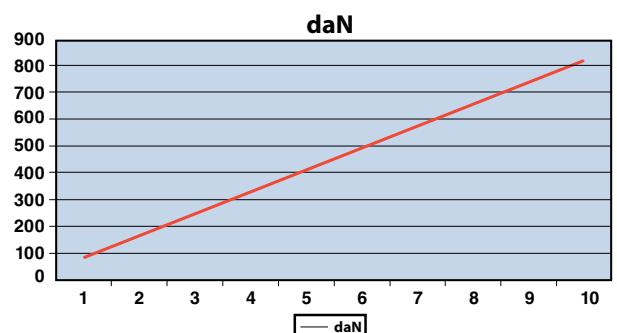
- Esempio della contropunta rotante CM 5 Mod. GT-V a 1.000 g/m:
Carico Radiale (F_r)= 320 (daN)
 $F_r \times 2 = \text{PESO PEZZO}$
- Example of live centre CM 5 mod. GT-V at 1.000 rpm:
Radial load (F_r)= 320 (daN) - $F_r \times 2 = \text{PIECE WEIGHT}$

VDI 30



| mm | 0,2 | 0,4 | 0,6 | 0,8 | 1 | 1,2 | 1,4 | 1,6 | 1,8 | 2 |
|-----|------|-------|-------|-------|-----|-------|-------|-------|-------|-----|
| daN | 69,4 | 138,8 | 208,2 | 277,6 | 347 | 416,4 | 485,8 | 555,2 | 624,6 | 694 |

VDI 40

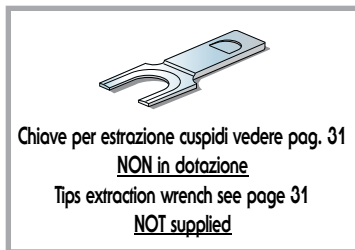


| mm | 0,2 | 0,4 | 0,6 | 0,8 | 1 | 1,2 | 1,4 | 1,6 | 1,8 | 2 |
|-----|------|-------|-------|-------|-----|-------|-------|-------|-------|-----|
| daN | 82,6 | 165,2 | 247,8 | 330,4 | 413 | 495,6 | 578,2 | 660,8 | 743,4 | 826 |

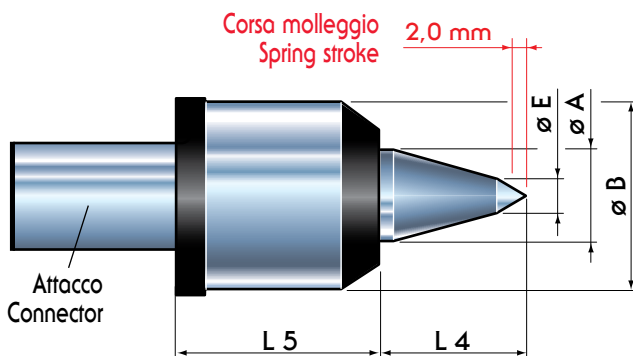
1

Contropunta con compensazione assiale per utilizzo su contro mandrino.
Attacco cilindrico.

Live centers with axial compensation recommended for use on country spindle.
Cylindrical connector.


Caratteristiche generali / Technical data Mod. VDC-C VDC-A

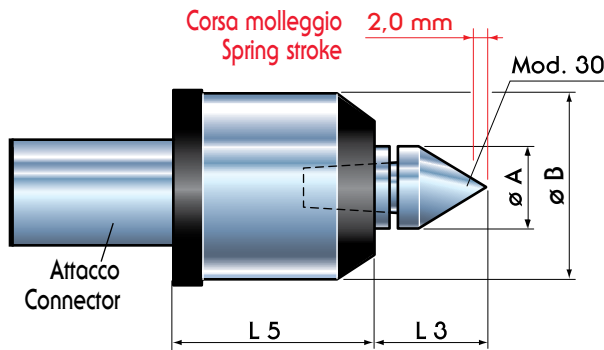
| Attacco / Connector | ∅ 30X55 | ∅ 40X63 |
|----------------------|---------|---------|
| Peso / Weight (Kg) | 2,1 | 3,8 |
| Max giri/1' / r.p.m. | 5500 | 4500 |
| Eccent. ≤ | 0,005 | 0,005 |
| ∅ B (mm) | 61 | 80 |
| L 5 (mm) | 79 | 85 |



Contropunta rotante VDC-C molleggiata con punta prolungata
Sprung VDC-C live centre with aiguille

Mod. VDC-C

| Attacco / Connector | ∅ 30 | ∅ 40 |
|----------------------|---------------|---------------|
| CODICE / CODE | 800176 | 800186 |
| ∅ A (mm) | 29 | 38 |
| L 4 (mm) | 51 | 56 |
| ∅ E (mm) | 8 | 12 |



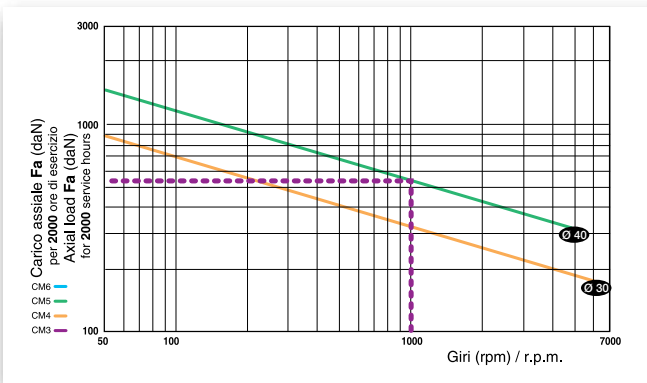
Per cuspidi vedere pag. 28-29
For tips see page 28-29

Contropunta rotante VDC-A molleggiata con cuspidi intercambiabile
Sprung VDC-A live centre with interchangeable tip

Mod. VDC-A

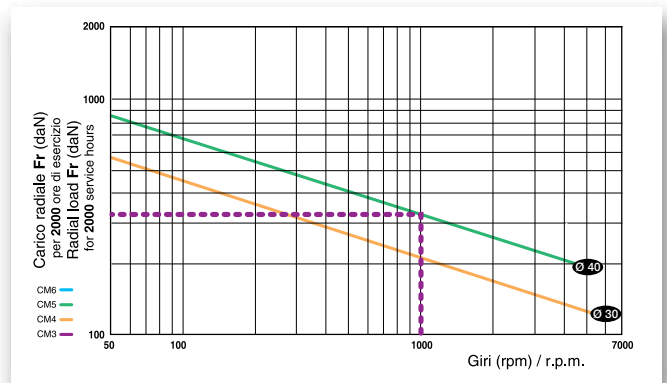
| Attacco / Connector | Ø 30 | Ø 40 |
|----------------------|---------------|---------------|
| CODICE / CODE | 800177 | 800187 |
| Cuspide / Tip | 80 30 40 | 80 30 50 |
| ø A (mm) | 29 | 35 |
| L 3 (mm) | 41 | 47 |

GT-VDC



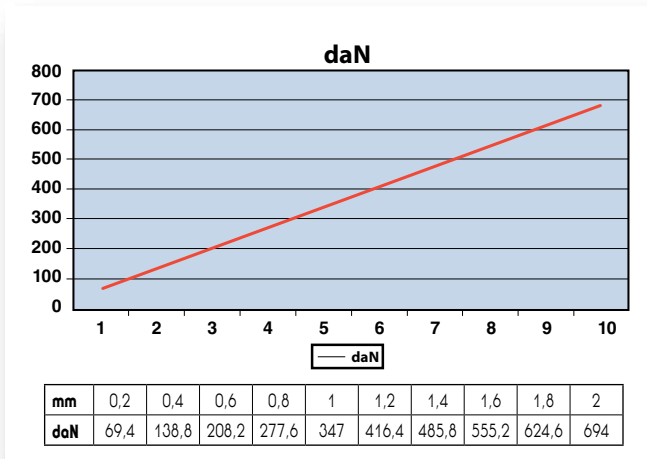
- Esempio della contropunta rotante CM 5 Mod. GT-V a 1.000 g/m:
Carico Assiale (Fa)= 546 (daN)
- Example of live centre CM 5 mod. GT-V at 1.000 rpm:
Axial load (Fa)= 546 (daN)

GT-VDC

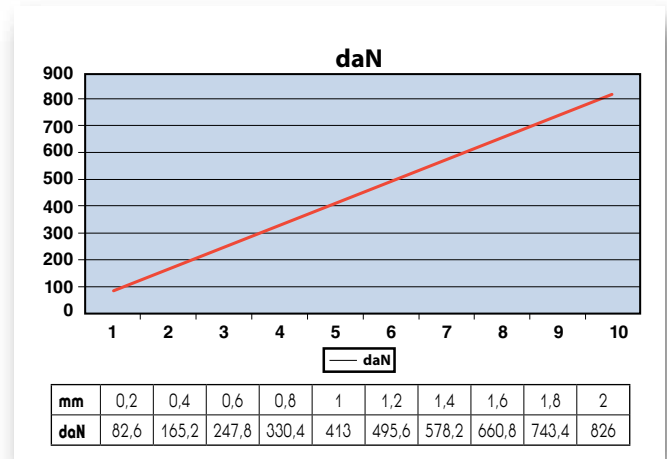


- Esempio della contropunta rotante CM 5 Mod. GT-V a 1.000 g/m:
Carico Radiale (Fr)= 320 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre CM 5 mod. GT-V at 1.000 rpm:
Radial load (Fr)= 320 (daN) - Fr x 2 = PIECE WEIGHT

VDC 30



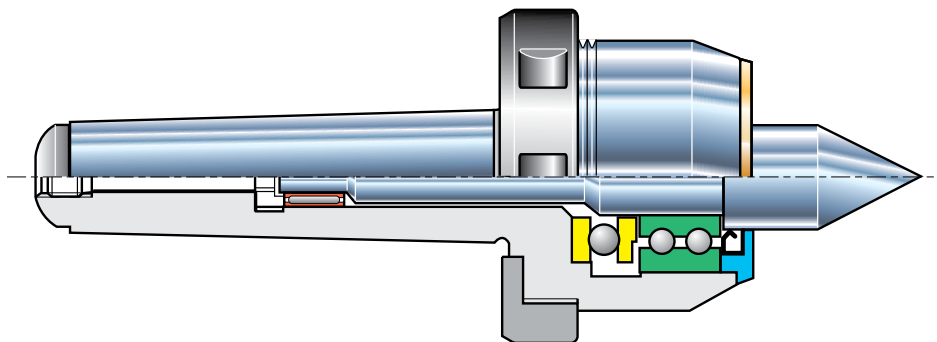
VDC 40



1

Contropunta con ghiera di estrazione strutturata con cuscinetti di precisione consigliata per torni con lavorazioni di medio carico e velocità elevate. Corpo e albero temperati e rettificati, lubrificata con grasso permanente.

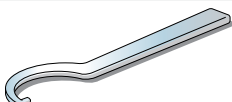
Tailstock with extractor nut with precision bearings recommended for lathes with medium-load machinings and high speeds. Hardened and rectified body and shaft, permanently lubricated.


Caratteristiche generali / Technical data Mod. GT-VG

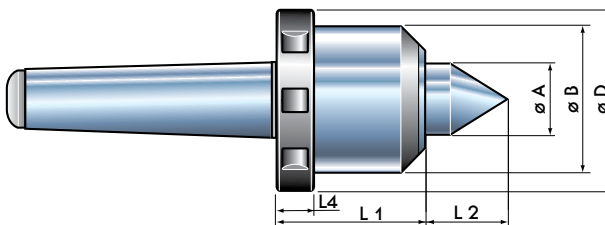
| | 3 | 4 | 5 | 6 |
|----------------------|-------|-------|-------|-------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| Peso / Weight (Kg) | 1,1 | 1,85 | 3,85 | 8,8 |
| Max giri/1' / r.p.m. | 7000 | 5500 | 4500 | 3200 |
| Eccent. ≤ | 0,005 | 0,005 | 0,005 | 0,008 |
| ø B (mm) | 55 | 61 | 80 | 93 |
| L 1 (mm) | 49 | 57 | 65 | 75 |
| ø D (mm) | 69 | 74 | 92 | 104 |
| L 4 (mm) | 22 | 24 | 24 | 27 |



Chiave per estrazione cuspidi vedere pag. 31
NON in dotazione
Tips extraction wrench see page 31
NOT supplied



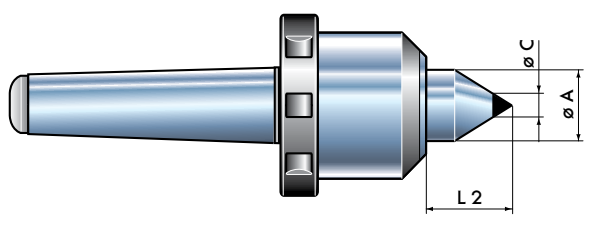
Chiave per ghiera vedere pag. 31
NON in dotazione
Nut wrench see page 31
NOT supplied



Contropunta rotante con albero integrale
Live centre with solid shaft

Mod. GT-VG

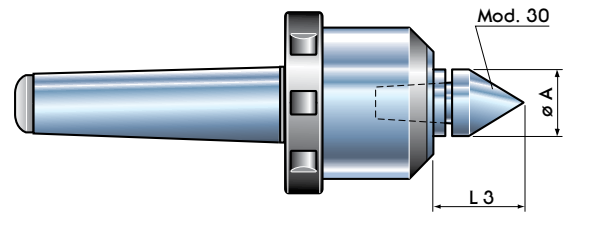
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|----------------|----------------|----------------|----------------|
| CODICE / CODE | 8302161 | 8402171 | 8502181 | 8602191 |
| ø A (mm) | 22 | 29 | 38 | 42 |
| L 2 (mm) | 28 | 40 | 48 | 55 |



Contropunta rotante con albero integrale punta in metallo duro
Live centre with solid shaft and hard metal centre

Mod. GT-VWG

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|----------------|----------------|----------------|----------------|
| CODICE / CODE | 8302163 | 8402173 | 8502183 | 8602193 |
| ø C (mm) | 10 | 12 | 18 | 20 |
| ø A (mm) | 22 | 29 | 38 | 42 |
| L 2 (mm) | 28 | 40 | 48 | 55 |

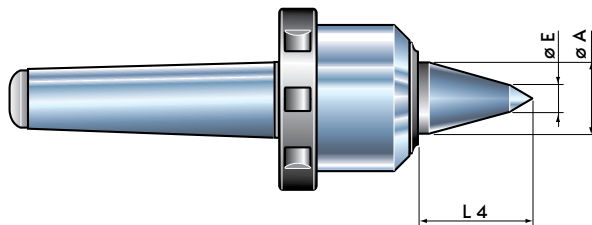


Contropunta rotante con cuspidi intercambiabili
Live centre with interchangeable tips

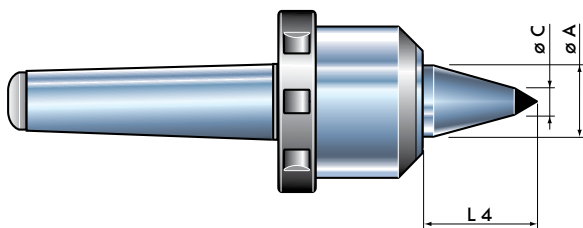
Mod. GT-VAG

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|----------------|----------------|----------------|----------------|
| CODICE / CODE | 8302162 | 8402172 | 8502182 | 8602192 |
| Cuspide / Tip | 80 30 30 | 80 30 40 | 80 30 50 | 80 30 60 |
| Eccent. ≤ | 0,01 | 0,01 | 0,01 | 0,02 |
| ø A (mm) | 25 | 29 | 35 | 42 |
| L 3 (mm) | 37 | 40,5 | 46 | 55 |

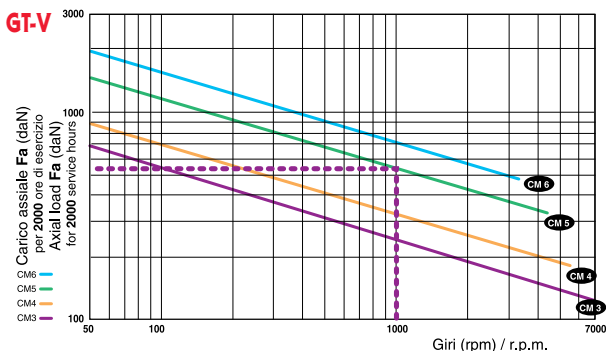
Per cuspidi vedere pag. 28-29
For tips see page 28-29


Contropunta rotante con punta prolungata
Live centre with aiguille
Mod. GT-VCG

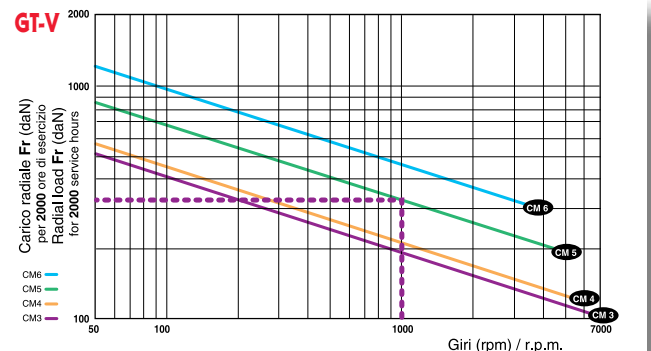
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|----------------|----------------|----------------|----------------|
| CODICE / CODE | 8302164 | 8402174 | 8502184 | 8602194 |
| ø E (mm) | 6 | 8 | 12 | 15 |
| L 4 (mm) | 42 | 51 | 56 | 88 |
| ø A (mm) | 22 | 29 | 38 | 42 |


Contropunta rotante con punta prolungata in metallo duro
Live centre with hard metal aiguille
Mod. GT-VCWG

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|----------------|----------------|----------------|----------------|
| CODICE / CODE | 8302165 | 8402175 | 8502185 | 8602195 |
| ø C (mm) | 6 | 8 | 10 | 12 |
| L 4 (mm) | 42 | 51 | 56 | 88 |
| ø A (mm) | 22 | 29 | 38 | 42 |



- Esempio della contropunta rotante **CM 5** Mod. GT-V a 1.000 g/m:
Carico Assiale (Fa)= 546 (daN)
- Example of live centre **CM 5** mod. GT-V at 1.000 rpm:
Axial load (Fa)= 546 (daN)

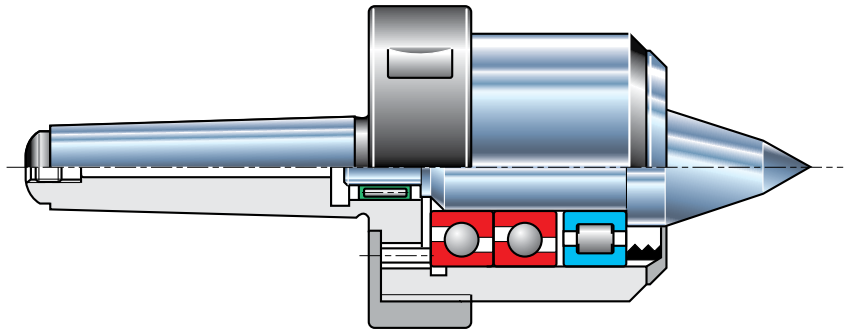


- Esempio della contropunta rotante **CM 5** Mod. GT-V a 1.000 g/m:
Carico Radiale (Fr)= 320 (daN)
Fr x 2 = PESO PEZZO
- Example of live centre **CM 5** mod. GT-V at 1.000 rpm:
Radial load (Fr)= 320 (daN)
Fr x 2 = PIECE WEIGHT

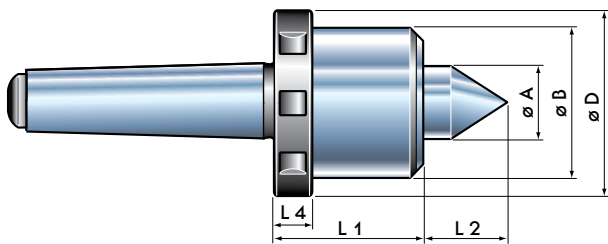
1

Contropunta con avanzate caratteristiche tecniche, strutturata con cuscinetti di precisione e bassa resistenza di rotazione, per torni con lavorazioni pesanti e altissime velocità. Corpo e albero temperati e rettificati, lubrificata con grasso speciale permanente, con ghiera di estrazione.

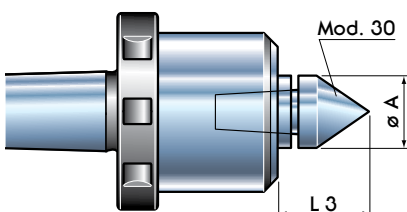
Shaped tailstock with updated technical characteristics with precision bearings and low rotation resistance for lathes with high-load machinings and very high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease, with extractor nut.


Caratteristiche generali / Technical data Mod. GT-1990

| | 3 | 4 | 5 |
|----------------------|-------|-------|-------|
| Cono Morse / Taper | 3 | 4 | 5 |
| Peso / Weight (Kg) | 2,1 | 3,75 | 6,5 |
| Max giri/1' / r.p.m. | 12000 | 9000 | 8000 |
| Eccent. ≤ | 0,005 | 0,005 | 0,005 |
| L 4 (mm) | 24 | 24 | 27 |
| ∅ D (mm) | 73 | 89 | 104 |
| L 1 (mm) | 69 | 80 | 85 |
| ∅ B (mm) | 62 | 78 | 93 |


Contropunta rotante con albero integrale
Live centre with solid shaft
Mod. GT1990-N

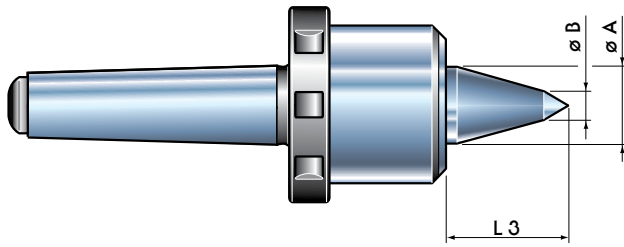
| | 3 | 4 | 5 |
|----------------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 |
| CODICE / CODE | 831992 | 841992 | 851992 |
| ∅ A (mm) | 30 | 35 | 42 |
| L 2 (mm) | 32,5 | 37 | 46,5 |



Per cuspidi vedere pag. 28-29
For tips see page


Contropunta rotante con cuspidi intercambiabili
Live centre with interchangeable tips
Mod. GT1990-NI

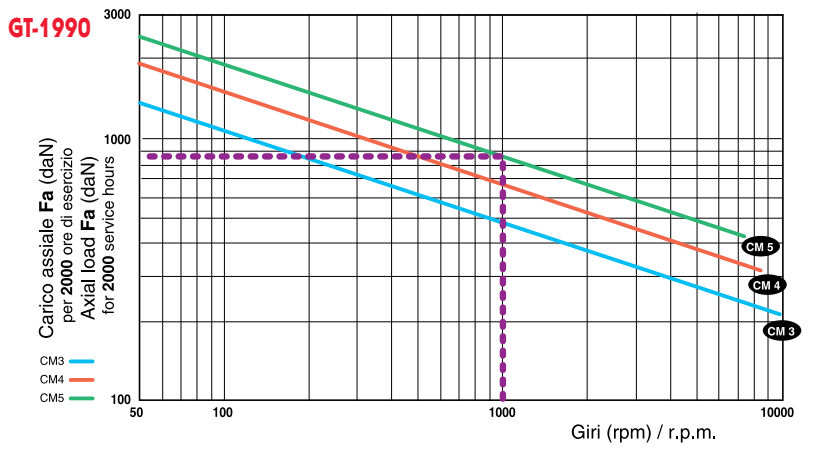
| | 3 | 4 | 5 |
|----------------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 |
| CODICE / CODE | 831993 | 841993 | 851993 |
| Cuspide / Tip | 80 30 30 | 80 30 40 | 80 30 50 |
| ∅ A (mm) | 25 | 29 | 35 |
| L 3 (mm) | 34,5 | 39 | 44 |



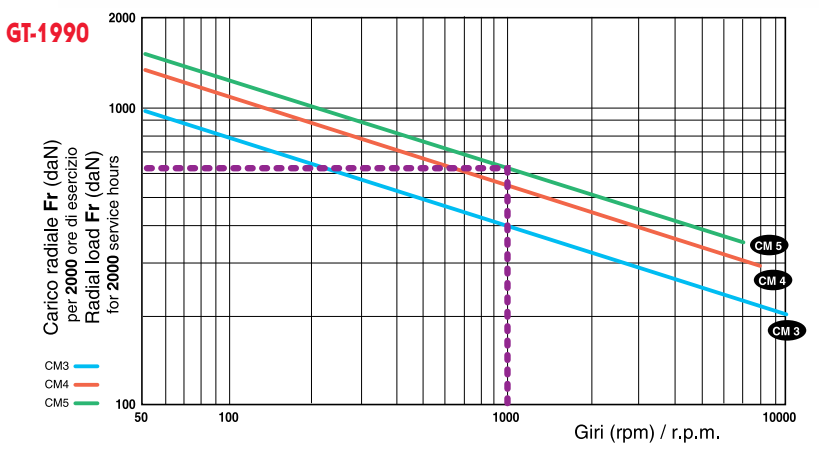
Contropunta rotante con punta prolungata
Live centre with aiguille

Mod. GT1990-CO

| Cono Morse / Taper | 3 | 4 | 5 |
|--------------------|---------------|---------------|---------------|
| CODICE / CODE | 831991 | 841991 | 851991 |
| ø A (mm) | 30 | 35 | 42 |
| ø B (mm) | 12 | 16 | 20 |
| L 3 (mm) | 40 | 44 | 59,5 |



- Esempio della contropunta rotante
CM 5 Mod. 1990-N a 1.000 g/m:
Carico Assiale (F_a)= 853 (daN)
- Example of live centre CM 5 mod.
1990-N at 1.000 rpm:
Axial load (F_a)= 853 (daN)

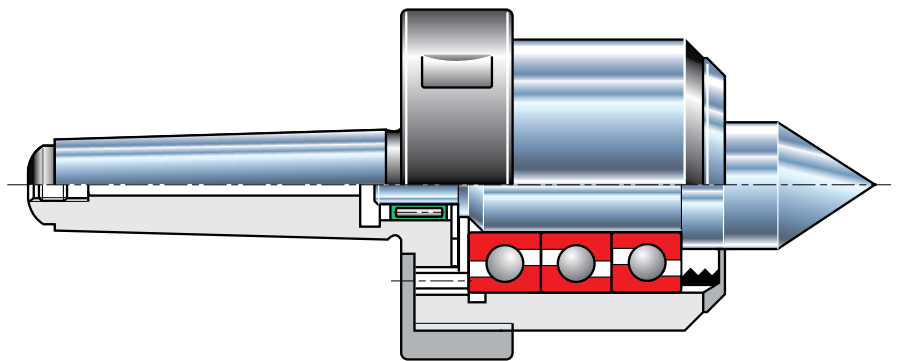


- Esempio della contropunta rotante
CM 5 Mod. 1990-N a 1.000 g/m:
Carico Radiale (F_r)= 618 (daN)
 $F_r \times 2 = \text{PESO PEZZO}$
- Example of live centre CM 5 mod.
1990-N at 1.000 rpm:
Radial load (F_r)= 618 (daN)
 $F_r \times 2 = \text{PIECE WEIGHT}$

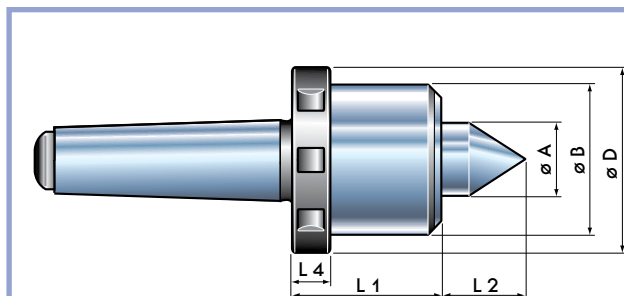
1

Contropunta dotata di ghiera d'estrazione, con avanzate caratteristiche tecniche e strutturata con cuscinetti di alta precisione. È consigliata per lavorazioni ad altissime velocità su torni e rettifiche. Corpo ed albero sono temperati, rettificati e lubrificati con grasso permanente.

Shaped tailstock with updated technical characteristics equipped with extractor nut and high precision bearings. It is indicated for toolings at very high speeds. Hardened and rectified body and shaft, permanently lubricated with grease.



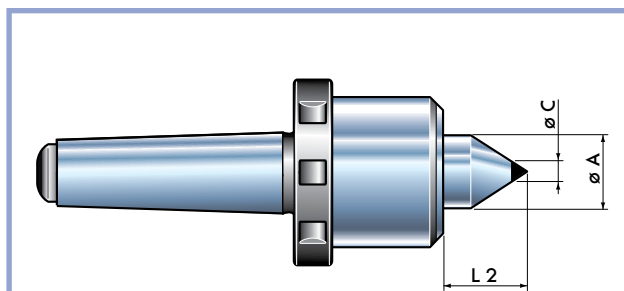
| Caratteristiche generali / Technical data Mod. GT-1980 | | | |
|---|-------|-------|-------|
| Cono Morse / Taper | 3 | 4 | 5 |
| Peso / Weight (Kg) | 2,1 | 4,85 | 6,5 |
| Max giri/1' / r.p.m. | 12000 | 9000 | 8000 |
| Eccent. ≤ | 0,002 | 0,002 | 0,002 |
| L 4 (mm) | 24 | 24 | 27 |
| ø D (mm) | 73 | 89 | 104 |
| L 1 (mm) | 69 | 80 | 85 |
| ø B (mm) | 62 | 78 | 93 |


Contropunta rotante con albero integrale

Live centre with solid shaft

Mod. GT1980-N

| | | | |
|----------------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 |
| CODICE / CODE | 831982 | 841982 | 851982 |
| ø A (mm) | 30 | 35 | 42 |
| L 2 (mm) | 32,5 | 37 | 46,5 |

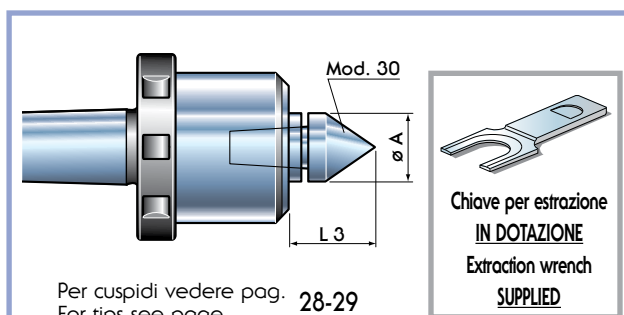

Contropunta rotante con albero integrale

punta in metallo duro

Live centre with solid shaft and hard metal centre

Mod. GT1980-NW

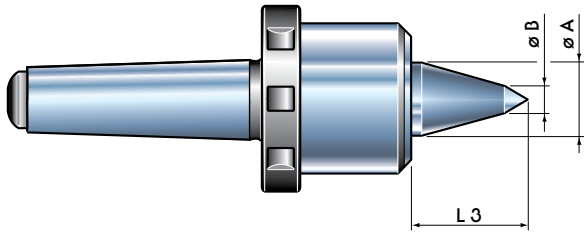
| | | | |
|----------------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 |
| CODICE / CODE | 831984 | 841984 | 851984 |
| ø C (mm) | 10 | 12 | 18 |
| ø A (mm) | 30 | 35 | 42 |
| L 2 (mm) | 32,5 | 37 | 46,5 |


Contropunta rotante con cuspidi intercambiabili
 Live centre with interchangeable tips

Mod. GT1980-NI

| | | | |
|----------------------|---------------|---------------|---------------|
| Cono Morse / Taper | 3 | 4 | 5 |
| CODICE / CODE | 831983 | 841983 | 851983 |
| Cuspide / Tip | 80 30 30 | 80 30 40 | 80 30 50 |
| ø A (mm) | 25 | 29 | 35 |
| L 3 (mm) | 34,5 | 39 | 44 |

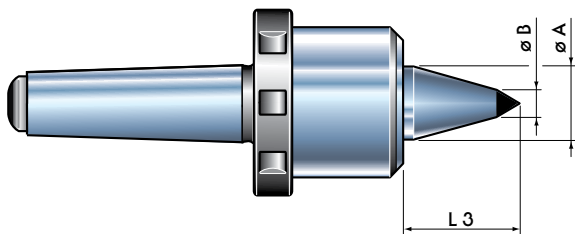
 Per cuspidi vedere pag. 28-29
 For tips see page



Contropunta rotante con punta prolungata
Live centre with aiguille

Mod. GT1980-CO

| Cono Morse / Taper | 3 | 4 | 5 |
|----------------------|---------------|---------------|---------------|
| CODICE / CODE | 831981 | 841981 | 851981 |
| $\varnothing A$ (mm) | 30 | 35 | 42 |
| $\varnothing B$ (mm) | 12 | 16 | 20 |
| L 3 (mm) | 40 | 44 | 59,5 |

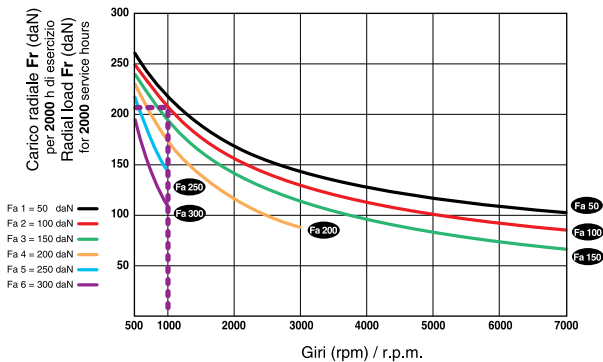


Contropunta rotante con punta
prolungata in metallo duro
Live centre with hard metal aiguille

Mod. GT1980-COW

| Cono Morse / Taper | 3 | 4 | 5 |
|----------------------|---------------|---------------|---------------|
| CODICE / CODE | 831985 | 841985 | 851985 |
| $\varnothing A$ (mm) | 30 | 35 | 42 |
| $\varnothing B$ (mm) | 10 | 14 | 18 |
| L 3 (mm) | 40 | 44 | 59,5 |

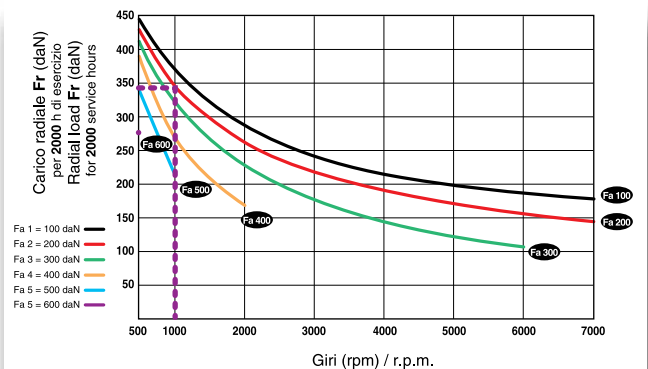
GT - 1980 CM3



--- Esempio della contropunta rotante **CM 3** Mod. 1980-N Fa 100 (daN)
a 1000 (rpm) = Fr 206 (daN)
Fr x 2 = PESO PEZZO

--- Example of live centre **CM 3** mod. 1980-N Fa 100 (daN)
at 1000 (rpm) = Fr 206 (daN)
Fr x 2 = PIECE WEIGHT

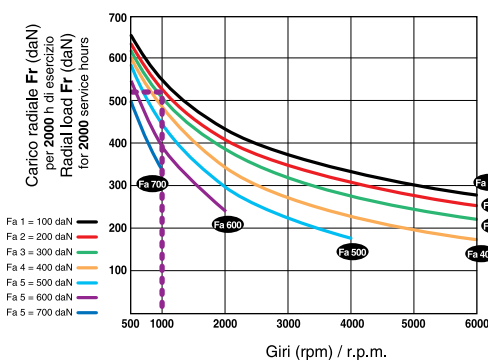
GT - 1980 CM4



--- Esempio della contropunta rotante **CM 4** Mod. 1980-N Fa 200 (daN)
a 1000 (rpm) = Fr 344 (daN)
Fr x 2 = PESO PEZZO

--- Example of live centre **CM 4** mod. 1980-N Fa 200 (daN)
at 1000 (rpm) = Fr 344 (daN)
Fr x 2 = PIECE WEIGHT

GT - 1980 CM5



--- Esempio della contropunta rotante **CM 5** Mod. 1980-N Fa 200 (daN)
a 1000 (rpm) = Fr 520 (daN)
Fr x 2 = PESO PEZZO

--- Example of live centre **CM 5** mod. 1980-N Fa 200 (daN)
at 1000 (rpm) = Fr 520 (daN)
Fr x 2 = PIECE WEIGHT

1

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-AS**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-AS**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT-AS

| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 824003 | 834003 | 844003 | 854003 | 864003 |
| Peso/Weight (Kg) | 2,4 | 2,6 | 3,5 | 5,3 | 13,5 |

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-AM**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-AM**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT-AM

| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 824001 | 834001 | 844001 | 854001 | 864001 |
| Peso/Weight (Kg) | 2,4 | 2,6 | 3,5 | 5,4 | 14,5 |

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-VA**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-VA**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante in cassetta con cuspidi intercambiabili
Tool box for live centre with interchangeable tips

Mod. GT-VA

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 834002 | 844002 | 854002 | 864002 |
| Peso/Weight (Kg) | 2,6 | 3,5 | 5,3 | 13,5 |



Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-AMG**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-AMG**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante con ghiera in cassetta con cuspidi intercambiabili
Tool box for live centre with nut and interchangeable tips

Mod. GT-AMG

| | | | | |
|----------------------|----------------|----------------|----------------|----------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| CODICE / CODE | 8304001 | 8404001 | 8504001 | 8604001 |
| Peso/Weight (Kg) | 2,6 | 3,5 | 5,4 | 14,5 |

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT-VAG**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT-VAG**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante con ghiera in cassetta con cuspidi intercambiabili
Tool box for live centre with nut and interchangeable tips

Mod. GT-VAG

| | | | | |
|----------------------|----------------|----------------|----------------|----------------|
| Cono Morse / Taper | 3 | 4 | 5 | 6 |
| CODICE / CODE | 8304002 | 8404002 | 8504002 | 8604002 |
| Peso/Weight (Kg) | 2,6 | 3,5 | 5,3 | 13,5 |

Set di dotazione / Tool box

- Contropunta rotante **Mod. GT1990-NI**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT1990-NI**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante con ghiera in cassetta con cuspidi intercambiabili
Tool box for live centre with nut and interchangeable tips

Mod. GT1990-NI

| | | | | |
|----------------------|---------------|---------------|---------------|--|
| Cono Morse / Taper | 3 | 4 | 5 | |
| CODICE / CODE | 834004 | 844004 | 854004 | |
| Peso/Weight (Kg) | 3,8 | 6,5 | 8,9 | |

Set di dotazione / Tool box

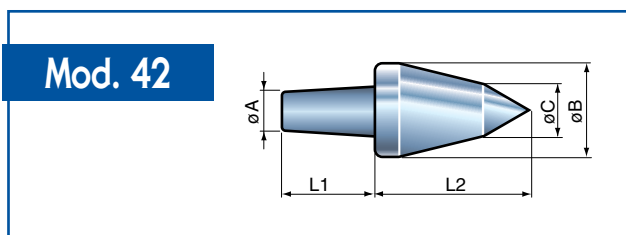
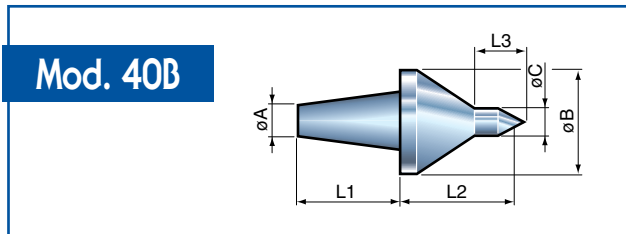
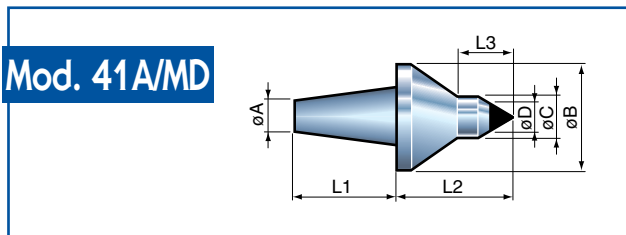
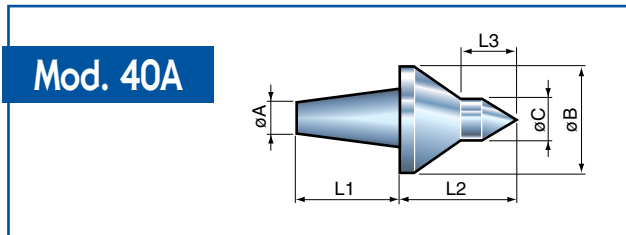
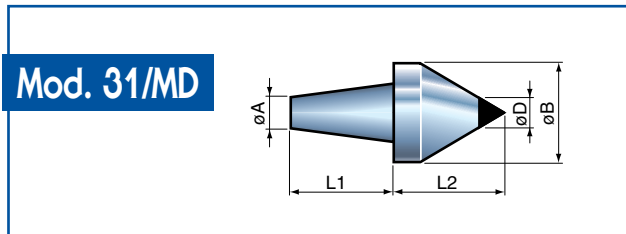
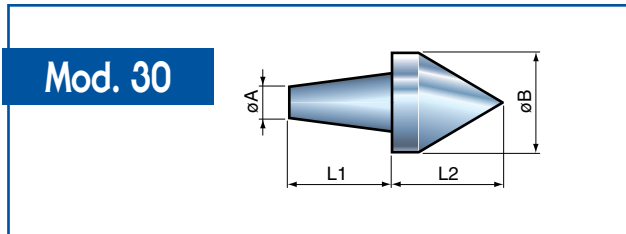
- Contropunta rotante **Mod. GT1980-NI**
- Cuspidi Mod.: 30 - 40/A - 40/B - 40/B - 60
- Chiave estrazione cuspidi
- Live centre **Mod. GT1980-NI**
- Kit of tips: 30 - 40/A - 40/B - 40/B - 60
- Wrench for extracting tips

Contropunta rotante con ghiera in cassetta con cuspidi intercambiabili
Tool box for live centre with nut and interchangeable tips

Mod. GT1980-NI

| | | | | |
|----------------------|---------------|---------------|---------------|--|
| Cono Morse / Taper | 3 | 4 | 5 | |
| CODICE / CODE | 834005 | 844005 | 854005 | |
| Peso/Weight (Kg) | 3,8 | 6,5 | 8,9 | |

Cuspidi intercambiabili a 60° per tutti i modelli di contropunta con albero intercambiabile
 60° interchangeable tips for all models of centres with interchangeable shaft



| Cono Morse Taper | L 1 | L 2 | L 3 | ø A | ø B | ø C | ø D | CODICE/CODE |
|---------------------|-----|-----|-----|------|-----|-----|-----|-------------------|
| C 2 | 27 | 28 | | 10,4 | 25 | | | 80 30 30 |
| C 3 | 27 | 28 | | 10,4 | 25 | | | 80 30 30 |
| C 4 | 29 | 31 | | 12 | 29 | | | 80 30 40 |
| C 5 | 30 | 36 | | 17,2 | 35 | | | 80 30 50 |
| C 6 | 33 | 45 | | 18,5 | 42 | | | 80 30 60 |
| C 6 | 40 | 46 | | 23,6 | 43 | | | 80 30 60 F |
| | | | | | | | | |
| C 2 | 27 | 28 | | 10,4 | 25 | | 10 | 80 31 30 |
| C 3 | 27 | 28 | | 10,4 | 25 | | 10 | 80 31 30 |
| C 4 | 29 | 31 | | 12 | 29 | | 12 | 80 31 40 |
| C 5 | 30 | 36 | | 17,2 | 35 | | 14 | 80 31 50 |
| C 6 | 33 | 45 | | 18,5 | 42 | | 14 | 80 31 60 |
| C 6 | 40 | 46 | | 23,6 | 43 | | 14 | 80 31 60 F |
| | | | | | | | | |
| C 2 | 27 | 34 | 16 | 10,4 | 25 | 12 | | 80 40 13 |
| C 3 | 27 | 34 | 16 | 10,4 | 25 | 12 | | 80 40 13 |
| C 4 | 29 | 37 | 16 | 12 | 29 | 12 | | 80 40 14 |
| C 5 | 30 | 42 | 19 | 17,2 | 35 | 15 | | 80 40 15 |
| C 6 | 33 | 54 | 25 | 18,5 | 42 | 20 | | 80 40 16 |
| C 6 | 40 | 62 | 33 | 23,6 | 43 | 20 | | 80 40 16 F |
| | | | | | | | | |
| C 2 | 27 | 34 | 16 | 10,4 | 25 | 12 | 7 | 80 41 13 |
| C 3 | 27 | 34 | 16 | 10,4 | 25 | 12 | 7 | 80 41 13 |
| C 4 | 29 | 37 | 16 | 12 | 29 | 12 | 8 | 80 41 14 |
| C 5 | 30 | 42 | 19 | 17,2 | 35 | 15 | 12 | 80 41 15 |
| C 6 | 33 | 54 | 25 | 18,5 | 42 | 20 | 12 | 80 41 16 |
| C 6 | 40 | 62 | 33 | 23,6 | 43 | 20 | 12 | 80 41 16 F |
| | | | | | | | | |
| C 2 | 27 | 34 | 12 | 10,4 | 25 | 7 | | 80 40 23 |
| C 3 | 27 | 34 | 12 | 10,4 | 25 | 7 | | 80 40 23 |
| C 4 | 29 | 37 | 12 | 12 | 29 | 7 | | 80 40 24 |
| C 5 | 30 | 42 | 12 | 17,2 | 35 | 7 | | 80 40 25 |
| C 6 | 33 | 54 | 18 | 18,5 | 42 | 12 | | 80 40 26 |
| C 6 | 40 | 62 | 26 | 23,6 | 43 | 12 | | 80 40 26 F |
| | | | | | | | | |
| C 2 | 27 | 45 | | 10,4 | 25 | 8 | | 80 42 30 |
| C 3 | 27 | 45 | | 10,4 | 25 | 8 | | 80 42 30 |
| C 4 | 29 | 50 | | 12 | 29 | 10 | | 80 42 40 |
| C 5 | 30 | 59 | | 17,2 | 35 | 12 | | 80 42 50 |
| C 6 | 33 | 75 | | 18,5 | 42 | 12 | | 80 42 60 |
| C 6 | 40 | 75 | | 23,6 | 43 | 12 | | 80 42 60 F |

Cuspidi intercambiabili 60° per tutti i modelli di contropunta con albero intercambiabile
 60° interchangeable tips for all models of centres with interchangeable shaft


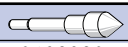

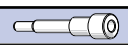







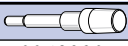
| Mod. | Diagram | Cono Morse Taper | L1 | L2 | ø A | ø B | ø C | ø D | CODICE/CODE |
|-----------------|---------|------------------|----|----|------|-----|-----|-----|-------------------|
| Mod. 50 | | C 2 | 27 | 30 | 10,4 | 29 | 23 | | 80 50 30 |
| | | C 3 | 27 | 30 | 10,4 | 29 | 23 | | 80 50 30 |
| | | C 4 | 29 | 30 | 12 | 29 | 23 | | 80 50 40 |
| | | C 5 | 30 | 35 | 17,2 | 35 | 27 | | 80 50 50 |
| | | C 6 | 33 | 35 | 18,5 | 37 | 27 | | 80 50 60 |
| | | C 6 | 40 | 46 | 23,6 | 37 | | | 80 50 60 F |
| | | | | | | | | | |
| Mod. 60 | | C 2 | 27 | 35 | 10,4 | 59 | 26 | | 80 60 30 |
| | | C 3 | 27 | 35 | 10,4 | 59 | 26 | | 80 60 30 |
| | | C 4 | 29 | 35 | 12 | 59 | 26 | | 80 60 40 |
| | | C 5 | 30 | 35 | 17,2 | 59 | 26 | | 80 60 50 |
| | | C 6 | 33 | 35 | 18,5 | 59 | 26 | | 80 60 60 |
| | | C 6 | 40 | 35 | 23,6 | 59 | 26 | | 80 60 60 F |
| | | | | | | | | | |
| Mod. 80 | | C 2 | 27 | 35 | 10,4 | 78 | 46 | | 80 80 30 |
| | | C 3 | 27 | 35 | 10,4 | 78 | 46 | | 80 80 30 |
| | | C 4 | 29 | 35 | 12 | 78 | 46 | | 80 80 40 |
| | | C 5 | 30 | 35 | 17,2 | 78 | 46 | | 80 80 50 |
| | | C 6 | 33 | 35 | 18,5 | 78 | 46 | | 80 80 60 |
| | | C 6 | 40 | 35 | 23,6 | 78 | 46 | | 80 80 60 F |
| | | | | | | | | | |
| Mod. 100 | | C 2 | 27 | 35 | 10,4 | 98 | 66 | | 80 100 3 |
| | | C 3 | 27 | 35 | 10,4 | 98 | 66 | | 80 100 3 |
| | | C 4 | 29 | 35 | 12 | 98 | 66 | | 80 100 4 |
| | | C 5 | 30 | 35 | 17,2 | 98 | 66 | | 80 100 5 |
| | | C 6 | 33 | 35 | 18,5 | 98 | 66 | | 80 100 6 |
| | | C 6 | 40 | 35 | 23,6 | 98 | 66 | | 80 100 6 F |
| | | | | | | | | | |


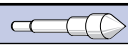

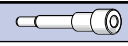

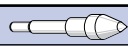

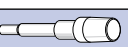

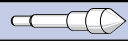



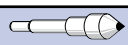

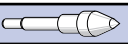
Per la richiesta di cuspidi con dimensioni personalizzate compilare la tabella sotto e spedire tramite telefax.











When you ask for tips with personalized dimensions always fill in this table and fax it.





| Cono Morse Taper | L1 | L2 | ø A | ø B | ø C | ø D | Mod. | ø di lavoro working ø | Peso pezzo Piece weight |
|------------------|----|----|-----|-----|-----|-----|------|-----------------------|-------------------------|
| | | | | | | | | | |

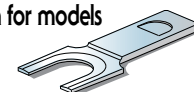
1

| PER MOD. For Mod. | CM CM | COD. KIT CUSCINETTI Bearing kit | COD. ALBERO Shaft |
|----------------------|----------|---|---|
| GT-E/S | |  |  |
| 812090 | 1 | 8120901 | 8120908 |
| 822100 | 2 | 8221001 | 8221008 |
| 832110 | 3 | 8321101 | 8321108 |
| 842120 | 4 | 8421201 | 8421208 |
| 852130 | 5 | 8521301 | 8521308 |
| 862140 | 6 | 8621401 | 8621408 |
| 812091 | 1 | 8120911 | 8120908 |
| 822101 | 2 | 8221011 | 8221008 |
| 832111 | 3 | 8321111 | 8321108 |
| 842121 | 4 | 8421211 | 8421208 |
| 852131 | 5 | 8521311 | 8521308 |
| 862141 | 6 | 8621411 | 8621408 |
| GT-AS | |  |  |
| 823091 | 2 | 8221011 | 8230917 |
| 833101 | 3 | 8321111 | 8331017 |
| 843111 | 4 | 8421211 | 8431117 |
| 853121 | 5 | 8521311 | 8531217 |
| 863131 | 6 | 8621411 | 8631317 |
| GT-M | |  |  |
| 822102 | 2 | 8221021 | 8221028 |
| 832112 | 3 | 8321121 | 8321128 |
| 842122 | 4 | 8421221 | 8421228 |
| 852132 | 5 | 8521321 | 8521328 |
| 862142 | 6 | 8621421 | 8621428 |
| 862152 | 6 SP. | 8621521 | 8621528 |
| 880802 | M80 | 8808021 | 8808028 |
| 881002 | M100 | 8010021 | 8010028 |
| GT-AM | |  |  |
| 823092 | 2 | 8221021 | 8230927 |
| 833102 | 3 | 8321121 | 8331027 |
| 843112 | 4 | 8421221 | 8431127 |
| 853122 | 5 | 8521321 | 8531227 |
| 863132 | 6 | 8621421 | 8631327 |
| 863142 | 6 sp. | 8621521 | 8631427 |
| GT-MC | |  |  |
| 822202 | 2 | 8221021 | 8222028 |
| 832212 | 3 | 8321121 | 8322128 |
| 842222 | 4 | 8421221 | 8422228 |
| 852232 | 5 | 8521321 | 8522328 |
| 862242 | 6 | 8621421 | 8622428 |
| 862252 | 6 sp. | 8621521 | 8622528 |
| GT-MTC | |  |  |
| 834092 | 3 | 8321121 | 8340928 |
| 844102 | 4 | 8421221 | 8441028 |
| 854112 | 5 | 8521321 | 8541128 |
| 864122 | 6 | 8621421 | 8641228 |
| 864132 | 6 sp. | 8621521 | 8641328 |

| PER MOD. For Mod. | CM CM | COD. KIT CUSCINETTI Bearing kit | COD. ALBERO Shaft |
|----------------------|----------|---|---|
| GT-MG | |  |  |
| 8302112 | 3 | 8321121 | 8321128 |
| 8402122 | 4 | 8421221 | 8421228 |
| 8502132 | 5 | 8521321 | 8521328 |
| 8602142 | 6 | 8621421 | 8621428 |
| 8602152 | 6 SP. | 8621521 | 8621528 |
| 880802 | M80 | 8808021 | 8808028 |
| GT-AMG | |  |  |
| 8303102 | 3 | 8321121 | 8331027 |
| 8403112 | 4 | 8421221 | 8431127 |
| 8503122 | 5 | 8521321 | 8531227 |
| 8603132 | 6 | 8621421 | 8631327 |
| 8603142 | 6 sp. | 8621521 | 8631427 |
| GT-MCG | |  |  |
| 8302212 | 3 | 8321121 | 8322128 |
| 8402222 | 4 | 8421221 | 8422228 |
| 8502232 | 5 | 8521321 | 8522328 |
| 8602242 | 6 | 8621421 | 8622428 |
| 8602252 | 6 sp. | 8621521 | 8622528 |
| GT-MTCG | |  |  |
| 8304092 | 3 | 8321121 | 8340928 |
| 8404102 | 4 | 8421221 | 8441028 |
| 8504112 | 5 | 8521321 | 8541128 |
| 8604122 | 6 | 8621421 | 8641228 |
| 8604132 | 6 sp. | 8621521 | 8641328 |
| GT-V | |  |  |
| 832161 | 3 | 8321611 | 8321128 |
| 842171 | 4 | 8421711 | 8421718 |
| 852181 | 5 | 8521811 | 8521818 |
| 862191 | 6 | 8621911 | 8621918 |
| GT-VA | |  |  |
| 832162 | 3 | 8321611 | 8331027 |
| 842172 | 4 | 8421711 | 8431117 |
| 852182 | 5 | 8521811 | 8521827 |
| 862192 | 6 | 8621911 | 8621927 |
| GT-VW | |  |  |
| 832163 | 3 | 8321611 | 8321638 |
| 842173 | 4 | 8421711 | 8421738 |
| 852183 | 5 | 8521811 | 8521838 |
| 862193 | 6 | 8621911 | 8621938 |
| GT-VC | |  |  |
| 832164 | 3 | 8321611 | 8322128 |
| 842174 | 4 | 8421711 | 8421748 |
| 852184 | 5 | 8521811 | 8521848 |
| 862194 | 6 | 8621911 | 8621948 |

| PER MOD. For Mod. | CM CM | COD. KIT CUSCINETTI Bearing kit | COD. ALBERO Shaft |
|---|----------|---------------------------------------|-------------------------|
| GT-VCW  | | | |
| 832165 | 3 | 8321611 | 8321658 |
| 842175 | 4 | 8421711 | 8421758 |
| 852185 | 5 | 8521811 | 8521858 |
| 862195 | 6 | 8621911 | 8621958 |
| GT-VG  | | | |
| 8302161 | 3 | 8321611 | 8321128 |
| 8402171 | 4 | 8421711 | 8421718 |
| 8502181 | 5 | 8521811 | 8521818 |
| 8602191 | 6 | 8621911 | 8621918 |
| GT-VAG  | | | |
| 8302162 | 3 | 8321611 | 8331027 |
| 8402172 | 4 | 8421711 | 8421727 |
| 8502182 | 5 | 8521811 | 8521827 |
| 8602192 | 6 | 8621911 | 8621927 |
| GT-VWG  | | | |
| 8302163 | 3 | 8321611 | 8321638 |
| 8402173 | 4 | 8421711 | 8421738 |
| 8502183 | 5 | 8521811 | 8521838 |
| 8602193 | 6 | 8621911 | 8621938 |
| GT-VCG  | | | |
| 8302164 | 3 | 8321611 | 8322128 |
| 8402174 | 4 | 8421711 | 8421748 |
| 8502184 | 5 | 8521811 | 8521848 |
| 8602194 | 6 | 8621911 | 8621948 |
| GT-VCWG  | | | |
| 8302165 | 3 | 8321611 | 8321658 |
| 8402175 | 4 | 8421711 | 8421758 |
| 8502185 | 5 | 8521811 | 8521858 |
| 8602195 | 6 | 8621911 | 8621958 |
| GT-1990/N  | | | |
| 831992 | 3 | 8319911 | 8319928 |
| 841992 | 4 | 8419911 | 8419928 |
| 851992 | 5 | 8519911 | 8519928 |
| GT-1990/NI  | | | |
| 831993 | 3 | 8319911 | 8319937 |
| 841993 | 4 | 8419911 | 8419937 |
| 851993 | 5 | 8519911 | 8519937 |
| GT-1990/CO  | | | |
| 831991 | 3 | 8319911 | 8319918 |
| 841991 | 4 | 8419911 | 8419918 |
| 851991 | 5 | 8519911 | 8519918 |
| GT-1980/N  | | | |
| 831982 | 3 | 8319811 | 8319828 |
| 841982 | 4 | 8419811 | 8419828 |
| 851982 | 5 | 8519811 | 8519828 |

| PER MOD. For Mod. | CM CM | COD. KIT CUSCINETTI Bearing kit | COD. ALBERO Shaft |
|--|----------|---------------------------------------|-------------------------|
| GT-1980/NW  | | | |
| 831984 | 3 | 8319811 | 8319848 |
| 841984 | 4 | 8419811 | 8419848 |
| 851984 | 5 | 8519811 | 8519848 |
| GT-1980/NI  | | | |
| 831983 | 3 | 8319811 | 8319837 |
| 841983 | 4 | 8419811 | 8419837 |
| 851983 | 5 | 8519811 | 8519837 |
| GT-1980/CO  | | | |
| 831981 | 3 | 8319811 | 8319818 |
| 841981 | 4 | 8419811 | 8419818 |
| 851981 | 5 | 8519811 | 8519818 |
| GT-1980/COW  | | | |
| 831985 | 3 | 8319811 | 8319858 |
| 841985 | 4 | 8419811 | 8419858 |
| 851985 | 5 | 8519811 | 8519858 |

CHIAVE ESTRAZIONE PER MODELLI / Extraction wrench for models
AS - AM - AMG - VA - VAG - 1990/N - 1980/NI


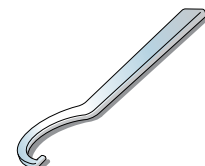
| CM | 2 | 3 | 4 | 5 | 6 |
|--------------------|----------------|----------------|----------------|----------------|----------------|
| CODICE CODE | 8319910 | 8319910 | 8419910 | 8519910 | 8619910 |

CHIAVE PER GHIERA, MODELLI / Nut wrench, models
MG - AMG - MCG - MTCG - VG - VAG - VWG - VCG - VCWG

| CM | 3 | 4 | 5 | 6 | 6sp. |
|--------------------|----------------|----------------|----------------|----------------|----------------|
| CODICE CODE | 8321122 | 8421222 | 8521322 | 8621422 | 8621522 |

CHIAVE PER GHIERA, MODELLI / Nut wrench, models
1990 - 1980

| CM | 3 | 4 | 5 |
|--------------------|----------------|----------------|----------------|
| CODICE CODE | 8319922 | 8419922 | 8519922 |


GRASSO SPECIALE PER CONTROPUNTE ROTANTI
Special grease for live centres


| CODICE / CODE | Peso / Weight (Kg) |
|---------------|--------------------|
| 800100 | 0,030 |
| 800500 | 0,050 |

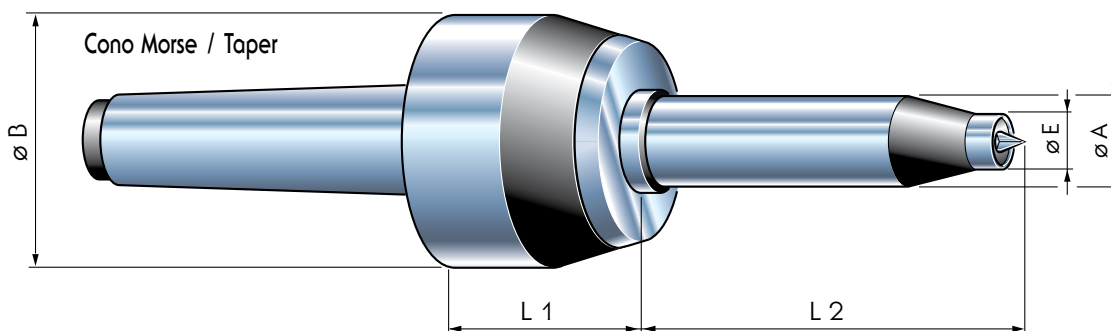
1

Contropunta rotante con albero speciale per tornitura legno.

Live centre with special shaft for wood turning.

Mod. GT-VL

| Cono Morse / Taper | 2 | 3 | 3 |
|----------------------|---------------|---------------|---------------|
| CODICE / CODE | 822104 | 832166 | 832167 |
| ∅ B | 51 | 55 | 55 |
| ∅ A | 22 | 20 | 20 |
| ∅ E | 12 | 12 | 12 |
| L1 | 43 | 47 | 47 |
| L2 | 80 | 88 | 120 |

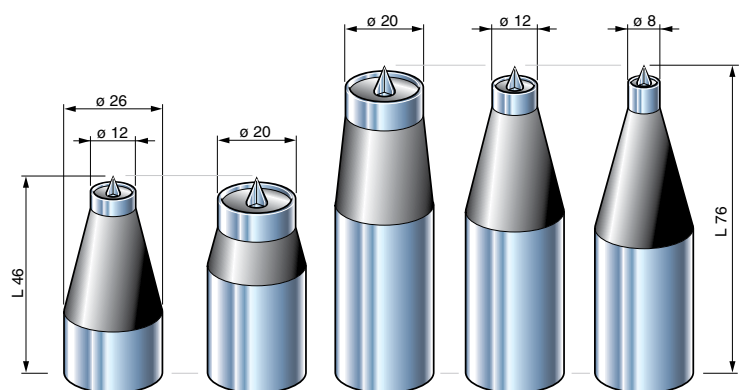


Contropunta rotante in cassetta con alberi intercambiabili per la tornitura del legno.

Live centre in tool-box with interchangeable shafts for wood turning.

Mod. GT-VLC

| | |
|-------------------------------------|---------------|
| CODICE / CODE | 834006 |
| per Set Completo / for complete set | |



ART. 216-12 216-20 216-20L 216-12L 216-8L

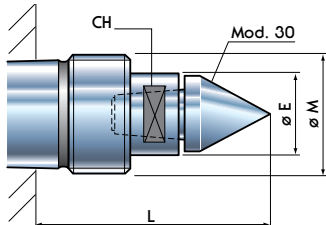
Per ricambi segnalare il riferimento. / For spare parts please state the reference.



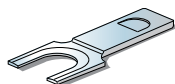
Eccent. ≤ 0,05

1

Mod. 330



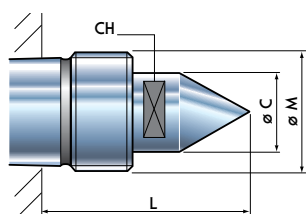
Per estrattore vedere pag. 31
For extractor see page 31



Contropunta fissa filettata e temperata HSS con cuspidi intercambiabile
HSS threaded and hardened dead centre with interchangeable tip

| Cono Morse / Taper | 3 | 4 | 5 |
|----------------------|---------------|---------------|---------------|
| CODICE / CODE | 833301 | 843301 | 853301 |
| Cuspide / Tip | 80 30 30 | 80 30 40 | 80 30 50 |
| E (mm) | 28 | 32 | 38 |
| L (mm) | 70 | 74,5 | 79,5 |
| M (mm) | 36 x 1,5 | 36 x 1,5 | 48 x 1,5 |
| CH (mm) | 22 | 27 | 32 |
| Peso/Weight (Kg) | 0,5 | 0,8 | 2,0 |

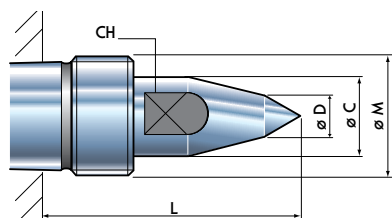
Mod. 230



Contropunta fissa filettata e temperata in acciaio HSS
HSS steel threaded and hardened dead centre

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 832301 | 842301 | 852301 | 862301 |
| C (mm) | 28 | 32 | 38 | 63,8 |
| L (mm) | 65 | 76,5 | 86,5 | 108 |
| M (mm) | 36 x 1,5 | 36 x 1,5 | 48 x 1,5 | 68 x 1,5 |
| CH (mm) | 22 | 27 | 32 | 55 |
| Peso/Weight (Kg) | 0,5 | 0,8 | 2,0 | 6,0 |

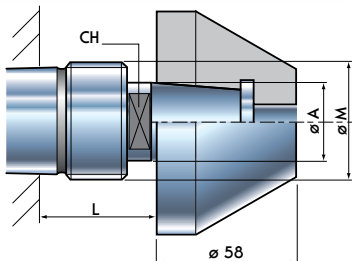
Mod. 240



Modello con punta prolungata fissa filettata e temperata in acciaio HSS
HSS steel threaded and hardened model with aiguille

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 832401 | 842401 | 852401 | 862401 |
| C (mm) | 28 | 32 | 38 | 63,8 |
| D (mm) | 13 | 13 | 20 | 20 |
| L (mm) | 80 | 92,5 | 104,5 | 148 |
| M (mm) | 36 x 1,5 | 36 x 1,5 | 48 x 1,5 | 68 x 1,5 |
| CH (mm) | 22 | 27 | 32 | 55 |
| Peso/Weight (Kg) | 0,5 | 0,9 | 2,8 | 7,0 |

Mod. 400

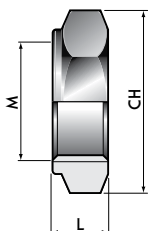


Per la scelta dei funghi vedere a pagina 13.
For the range of heads, please see page 13.

Contropunta fissa temperata e filettata a tronco di cono porta funghi
Truncated cone hardened and threaded dead centre holding heads

| Cono Morse / Taper | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 834000 | 844000 | 854000 | 864000 |
| A (mm) | 35 | 35 | 35 | 35 |
| L (mm) | 40 | 41,5 | 41,5 | 43 |
| M (mm) | 41 x 1,5 | 41 x 1,5 | 48 x 1,5 | 68 x 1,5 |
| CH (mm) | 32 | 32 | 32 | 38 |
| Peso/Weight (Kg) | 0,7 | 1,1 | 2,0 | 5,0 |

Mod. 501

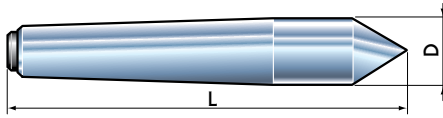


Ghiera di estrazione
Extractor nut

| CODICE / CODE | 005010 | 005011 | 005012 | 005013 |
|----------------------|---------------|---------------|---------------|---------------|
| M (mm) | 36 x 1,5 | 48 x 1,5 | 41 x 1,5 | 68 x 1,5 |
| CH (mm) | 55 | 70 | 55 | 96 |
| L (mm) | 22 | 22 | 22 | 22 |
| Peso/Weight (Kg) | 0,25 | 0,35 | 0,2 | 0,5 |

Mod. 231

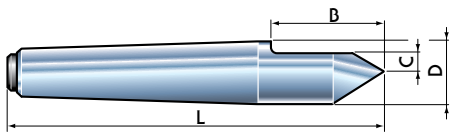
Fissa in acciaio temperato
Hardened steel dead centre



| Cono Morse / Taper | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 812310 | 822310 | 832310 | 842310 | 852310 | 862310 |
| D (mm) | 12,2 | 18 | 24,1 | 31,6 | 44,7 | 63,8 |
| L (mm) | 80 | 100 | 125 | 160 | 200 | 270 |
| Peso / Weight (Kg) | 0,1 | 0,13 | 0,4 | 0,75 | 1,95 | 7,3 |

Mod. 241

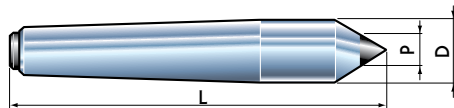
Fissa in acciaio temperato scaricata
Hardened steel lightened dead centre



| Cono Morse / Taper | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 812410 | 822410 | 832410 | 842410 | 852410 | 862410 |
| D (mm) | 12,2 | 18 | 24,1 | 31,6 | 44,7 | 63,8 |
| C (mm) | 1,5 | 2 | 3 | 5 | 7 | 10 |
| B (mm) | 22 | 30 | 38 | 50 | 63 | 79 |
| L (mm) | 80 | 100 | 125 | 160 | 200 | 270 |
| Peso / Weight (Kg) | 0,1 | 0,13 | 0,4 | 0,75 | 1,95 | 7,3 |

Mod. 232

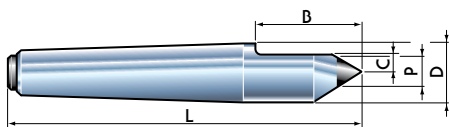
Fissa con punta in metallo duro
Dead centre with hard metal centre



| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 822321 | 832321 | 842321 | 852321 | 862321 |
| D (mm) | 18 | 24,1 | 31,6 | 44,7 | 63,8 |
| P (mm) | 7 | 11 | 14 | 18 | 20 |
| L (mm) | 100 | 125 | 160 | 200 | 270 |
| Peso / Weight (Kg) | 0,13 | 0,4 | 0,75 | 1,95 | 7,3 |

Mod. 242

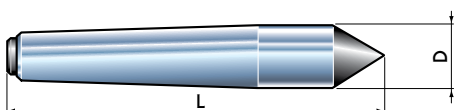
Fissa con punta in metallo duro scaricata
Lightened dead centre with hard metal centre



| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 822421 | 832421 | 842421 | 852421 | 862421 |
| D (mm) | 18 | 24,1 | 31,6 | 44,7 | 63,8 |
| C (mm) | 2 | 3 | 5 | 7 | 10 |
| P (mm) | 7 | 11 | 14 | 18 | 20 |
| B (mm) | 30 | 38 | 50 | 63 | 79 |
| L (mm) | 100 | 125 | 160 | 200 | 270 |
| Peso / Weight (Kg) | 0,13 | 0,4 | 0,75 | 1,95 | 7,3 |

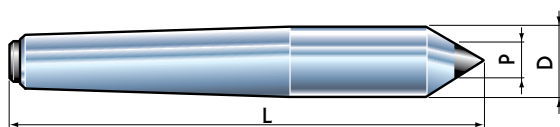
Mod. 234

Fissa con punta integrale in metallo duro
Dead centre with full hard metal centre

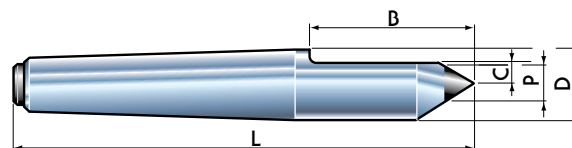


| Cono Morse / Taper | 2 | 3 | 4 | 5 | 6 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 822341 | 832341 | 842341 | 852341 | 862341 |
| D (mm) | 18 | 24,1 | 31,6 | 44,7 | 63,8 |
| L (mm) | 100 | 125 | 160 | 200 | 270 |
| Peso / Weight (Kg) | 0,2 | 0,5 | 0,9 | 2,1 | 8,0 |

Mod. 233 Contropunta fissa prolungata in metallo duro
Hard metal extended dead centre



Mod. 243 Contropunta fissa prolungata scaricata in metallo duro
Hard metal lightened extended dead centre



| CODICE / CODE | CM | D | P | L | Peso/Weight (Kg) |
|---------------|----|------|----|-----|------------------|
| 8223310 | 2 | 18 | 10 | 120 | 0,2 |
| 8223314 | 2 | 18 | 14 | 120 | 0,2 |
| 8223318 | 2 | 22 | 18 | 120 | 0,2 |
| 8323310 | 3 | 24,1 | 10 | 160 | 0,5 |
| 8323314 | 3 | 24,1 | 14 | 160 | 0,5 |
| 8323318 | 3 | 24,1 | 18 | 160 | 0,5 |
| 8323322 | 3 | 24,1 | 22 | 160 | 0,5 |
| 8423310 | 4 | 31,6 | 10 | 200 | 1,0 |
| 8423314 | 4 | 31,6 | 14 | 200 | 1,0 |
| 8423318 | 4 | 31,6 | 18 | 200 | 1,0 |
| 8423322 | 4 | 31,6 | 22 | 200 | 1,0 |
| 8423326 | 4 | 31,6 | 26 | 200 | 1,0 |
| 8523314 | 5 | 44,7 | 14 | 240 | 2,4 |
| 8523318 | 5 | 44,7 | 18 | 240 | 2,4 |
| 8523322 | 5 | 44,7 | 22 | 240 | 2,4 |
| 8523326 | 5 | 44,7 | 26 | 240 | 2,5 |
| 8523330 | 5 | 44,7 | 30 | 240 | 2,5 |
| 8623314 | 6 | 63,8 | 14 | 300 | 5,4 |
| 8623318 | 6 | 63,8 | 18 | 300 | 5,8 |
| 8623322 | 6 | 63,8 | 22 | 300 | 5,8 |
| 8623326 | 6 | 63,8 | 26 | 300 | 5,8 |
| 8623330 | 6 | 63,8 | 30 | 300 | 6,0 |

| CODICE / CODE | CM | D | P | L | C | B | Peso/Weight (Kg) |
|---------------|----|------|----|-----|----|-----|------------------|
| 8224310 | 2 | 18 | 10 | 120 | 6 | 50 | 0,2 |
| 8224314 | 2 | 18 | 14 | 120 | 8 | 50 | 0,2 |
| 8224318 | 2 | 22 | 18 | 120 | 10 | 50 | 0,2 |
| 8324310 | 3 | 24,1 | 10 | 160 | 6 | 70 | 0,5 |
| 8324314 | 3 | 24,1 | 14 | 160 | 8 | 70 | 0,4 |
| 8324318 | 3 | 24,1 | 18 | 160 | 10 | 70 | 0,5 |
| 8324322 | 3 | 24,1 | 22 | 160 | 12 | 70 | 0,5 |
| 8424310 | 4 | 31,6 | 10 | 200 | 6 | 90 | 0,9 |
| 8424314 | 4 | 31,6 | 14 | 200 | 8 | 90 | 0,9 |
| 8424318 | 4 | 31,6 | 18 | 200 | 10 | 90 | 1,0 |
| 8424322 | 4 | 31,6 | 22 | 200 | 12 | 90 | 1,0 |
| 8424326 | 4 | 31,6 | 26 | 200 | 14 | 90 | 1,0 |
| 8524314 | 5 | 44,7 | 14 | 240 | 8 | 90 | 2,2 |
| 8524318 | 5 | 44,7 | 18 | 240 | 10 | 90 | 2,2 |
| 8524322 | 5 | 44,7 | 22 | 240 | 12 | 90 | 2,2 |
| 8524326 | 5 | 44,7 | 26 | 240 | 14 | 90 | 2,3 |
| 8524330 | 5 | 44,7 | 30 | 240 | 16 | 90 | 2,4 |
| 8624314 | 6 | 63,8 | 14 | 300 | 8 | 100 | 5,0 |
| 8624318 | 6 | 63,8 | 18 | 300 | 10 | 100 | 5,2 |
| 8624322 | 6 | 63,8 | 22 | 300 | 12 | 100 | 5,4 |
| 8624326 | 6 | 63,8 | 26 | 300 | 14 | 100 | 5,6 |
| 8624330 | 6 | 63,8 | 30 | 300 | 16 | 100 | 5,8 |

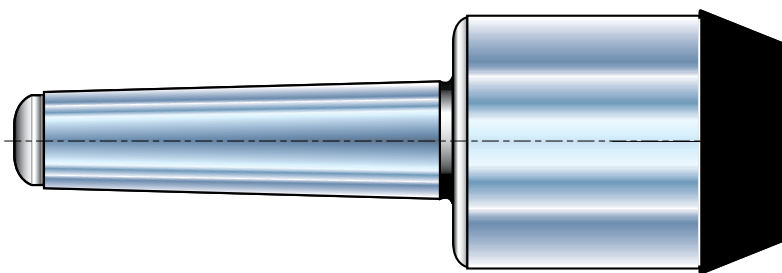
Per la richiesta di contropunte con dimensioni personalizzate compilare la tabella sotto e spedire tramite telefax.

When you ask for tailstocks with personalized dimensions always fill in this table and fax it.

| Mod. | CM | D | L | B | C | P | Ø di lavoro / working Ø | Peso pezzo / Piece weight |
|------|----|---|---|---|---|---|-------------------------|---------------------------|
| 2__ | | | | | | | | |

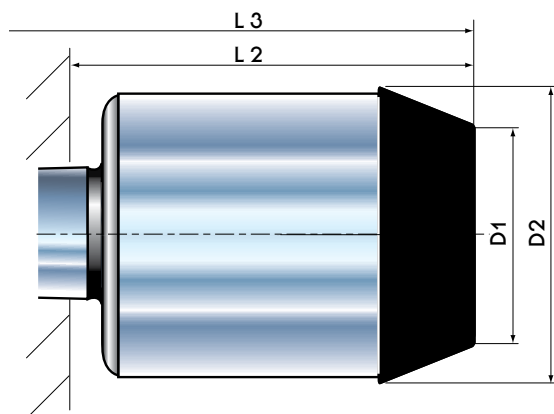
Contropunta fissa con calotta in metallo duro.

Dead centre with hard metal cover.



Mod. 250 Contropunta fissa con calotta in metallo duro

Dead centre with hard metal cover

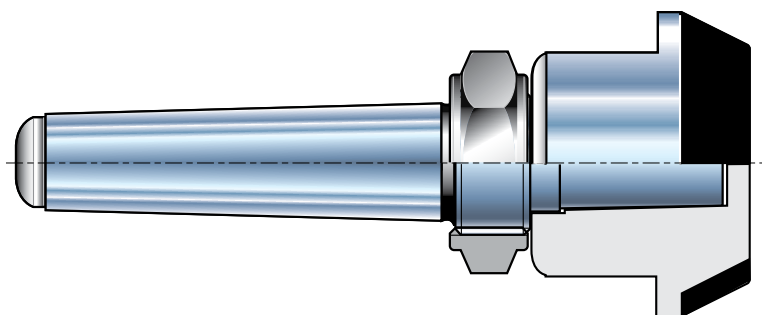


| CODICE / CODE | CM | D2 | D1 | L2 | L3 | Peso/Weight (Kg) |
|---------------|----|----|----|----|-----|------------------|
| 8225030 | 2 | 30 | 5 | 50 | 114 | 0,3 |
| 8225040 | 2 | 40 | 15 | 50 | 114 | 0,3 |
| 8225050 | 2 | 50 | 25 | 50 | 114 | 0,4 |
| 8325030 | 3 | 30 | 5 | 50 | 131 | 0,4 |
| 8325040 | 3 | 40 | 15 | 50 | 131 | 0,6 |
| 8325050 | 3 | 50 | 25 | 50 | 131 | 0,8 |
| 8325060 | 3 | 60 | 35 | 50 | 131 | 1,2 |
| 8325070 | 3 | 70 | 45 | 50 | 131 | 1,5 |
| 8425030 | 4 | 30 | 5 | 60 | 162 | 0,8 |
| 8425040 | 4 | 40 | 15 | 60 | 162 | 1,0 |
| 8425050 | 4 | 50 | 25 | 60 | 162 | 1,3 |
| 8425060 | 4 | 60 | 35 | 60 | 162 | 1,6 |
| 8425070 | 4 | 70 | 45 | 60 | 162 | 2,1 |
| 8425080 | 4 | 80 | 55 | 60 | 162 | 2,5 |
| 8525030 | 5 | 30 | 5 | 70 | 200 | 1,7 |
| 8525040 | 5 | 40 | 15 | 70 | 200 | 2,0 |
| 8525050 | 5 | 50 | 25 | 70 | 200 | 2,3 |
| 8525060 | 5 | 60 | 35 | 70 | 200 | 2,8 |
| 8525070 | 5 | 70 | 45 | 70 | 200 | 3,2 |
| 8525080 | 5 | 80 | 55 | 70 | 200 | 3,5 |
| 8625030 | 6 | 30 | 5 | 75 | 257 | 7,3 |
| 8625040 | 6 | 40 | 15 | 75 | 257 | 8,0 |
| 8625050 | 6 | 50 | 25 | 75 | 257 | 8,7 |
| 8625060 | 6 | 60 | 35 | 75 | 257 | 9,3 |
| 8625070 | 6 | 70 | 45 | 75 | 257 | 10,0 |
| 8625080 | 6 | 80 | 55 | 75 | 257 | 10,6 |

Per la richiesta di contropunte con dimensioni personalizzate compilare la tabella sotto e spedire tramite telefax.

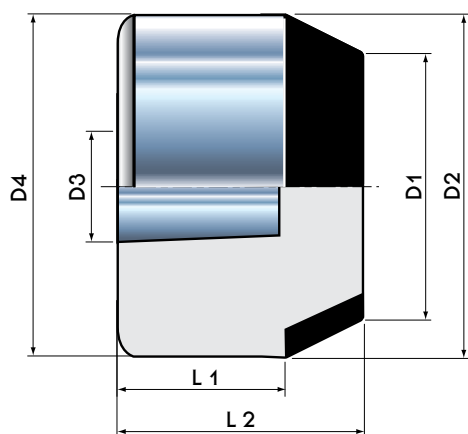
When you ask for tailstocks with personalized dimensions always fill in this table and fax it.

| Mod. | CM | L2 | L3 | D1 | D2 | ø di lavoro / working ø | Peso pezzo / Piece weight |
|------|----|----|----|----|----|-------------------------|---------------------------|
| 250 | | | | | | | |



Contropunta fissa con ghiera di estrazione e calotte intercambiabili in metallo duro.

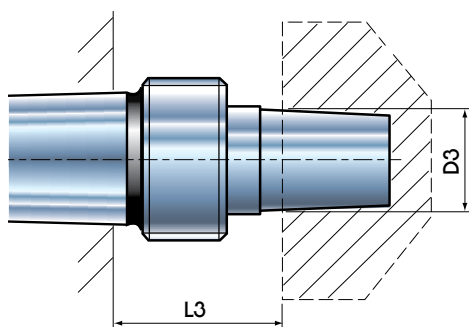
Hard metal dead centre with extractor nut and interchangeable covers.



Mod. 500 Calotta intercambiabile in metallo duro

Hard metal interchangeable cover

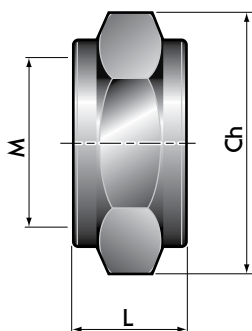
| CODICE / CODE | 015000 | 025000 | 035000 | 045000 |
|--------------------|--------|--------|--------|--------|
| Eccent. ≤ | 0,005 | 0,005 | 0,005 | 0,008 |
| D1 (mm) | 5 | 25 | 45 | 65 |
| D2 (mm) | 30 | 50 | 70 | 90 |
| D3 (mm) | 25 | 25 | 25 | 25 |
| D4 (mm) | 40 | 50 | 70 | 90 |
| L2 (mm) | 62 | 56 | 56 | 56 |
| L1 (mm) | 40 | 34 | 34 | 34 |
| Peso / Weight (Kg) | 0,35 | 0,7 | 1,5 | 2,7 |



Mod. 503 Contropunta fissa porta calotte in metallo duro

Hard metal dead centre holding covers

| CM | 2 | 3 | 4 | 5 |
|----------------------|---------------|---------------|---------------|---------------|
| CODICE / CODE | 825030 | 835030 | 845030 | 855030 |
| Eccent. ≤ | 0,005 | 0,005 | 0,005 | 0,005 |
| M (mm) | 36 x 1,5 | 36 x 1,5 | 36 x 1,5 | 48 x 1,5 |
| D3 (mm) | 25 | 25 | 25 | 25 |
| L3 (mm) | 41 | 41 | 42,5 | 42,5 |
| Peso / Weight (Kg) | 0,45 | 0,6 | 0,9 | 1,9 |



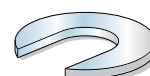
Ghiera estrazione cono e calotta

Taper and cover extractor nut

Mod. 502

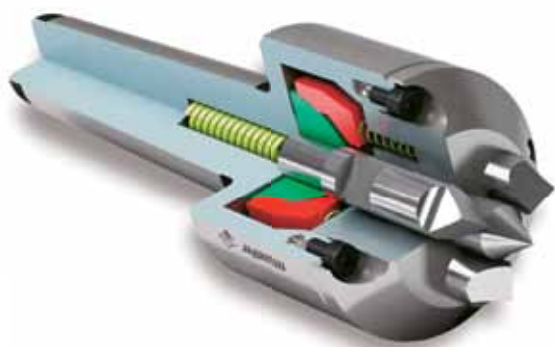
| CODICE / CODE | 005022 | 005023 |
|--------------------|----------|----------|
| M (mm) | 36 x 1,5 | 48 x 1,5 |
| Ch (mm) | 55 | 70 |
| L | 30 | 30 |
| Peso / Weight (Kg) | 0,35 | 0,5 |

005024



per Estrattore
for Extractor

015000



Caratteristiche tecniche

L'autobilanciamento degli artigli permette la lavorazione di superfici non perpendicolari.

Il profilo studiato permette all'utensile l'entrata in lavorazione in entrambi i sensi.

Costruiti in acciai scelti, trattati e rettificati.

Technical features

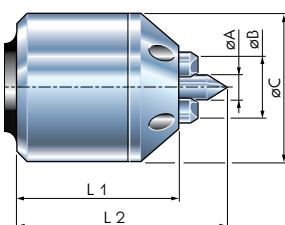
The self-balancing of the jaws allows to work not perpendicular surfaces.

The studied profile permits the tool to be worked in both directions.





Manufactured with treated and ground steels of top quality.

Eccent. $\leq 0,01$

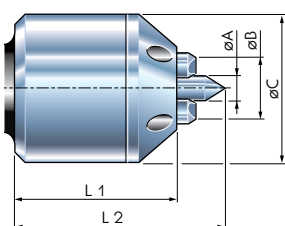
Mod. 12






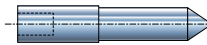
| CODICE CODE | CAMPO D'IMPIEGO / Field of application | | | MISURE ESTERNE / Outer dimensions | | | | | |
|----------------|--|-------|--------------|-----------------------------------|-----|-----|-----|-----|---------------------|
| | ø Min. | ø Max | Cono Cone | ø A | ø B | ø C | L 1 | L 2 | Peso Weight (Kg) |
| 201200 | 12 | 25 | ø 30x65 | 8 | 20 | 48 | 52 | 67 | 0,9 |
| 231200 | 12 | 25 | 3 | 8 | 20 | 48 | 52 | 67 | 0,9 |
| 241200 | 12 | 25 | 4 | 8 | 20 | 48 | 52 | 67 | 1,2 |

| ARTIGLI RICAMBIO / Spare jaws | | | | | | PUNTA / Centre | |
|---|----------------|---|-------------------|--|--------------------|---|--|
|  | |  | |  | |  | |
| CODICE CODE | Rot. Neutra | CODICE CODE | Rot. SX / Left | CODICE CODE | Rot. DX / Right | CODICE CODE | |
| 211201 | ON | 211202 | OS | 211203 | OD | 211207 | |

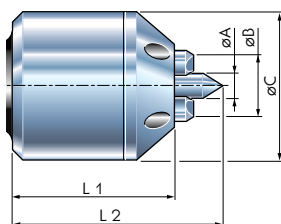
Mod. 22






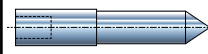
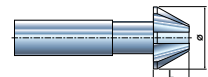
| CODICE CODE | CAMPO D'IMPIEGO / Field of application | | | MISURE ESTERNE / Outer dimensions | | | | | |
|----------------|--|-------|--------------|-----------------------------------|-----|-----|-----|-----|---------------------|
| | ø Min. | ø Max | Cono Cone | ø A | ø B | ø C | L 1 | L 2 | Peso Weight (Kg) |
| 202200 | 30 | 47 | ø 30x65 | 12 | 30 | 62 | 64 | 86 | 1,5 |
| 232200 | 30 | 47 | 3 | 12 | 30 | 62 | 64 | 86 | 1,5 |
| 242200 | 30 | 47 | 4 | 12 | 30 | 62 | 64 | 86 | 2,7 |
| 252200 | 30 | 47 | 5 | 12 | 30 | 62 | 64 | 86 | 3,9 |

| ARTIGLI RICAMBIO / Spare jaws | | | | | | PUNTA / Centre | |
|---|----------------|---|-------------------|--|--------------------|---|--|
|  | |  | |  | |  | |
| CODICE CODE | Rot. Neutra | CODICE CODE | Rot. SX / Left | CODICE CODE | Rot. DX / Right | CODICE CODE | |
| 212201 | ON | 212202 | OS | 212203 | OD | 212207 | |

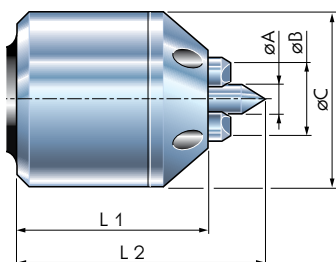
Mod. 42



| CODICE CODE | CAMPO D'IMPIEGO / Field of application | | | MISURE ESTERNE / Outer dimensions | | | | | |
|---------------|--|-------|-----------|-----------------------------------|-----|-----|-----|-----|------------------|
| | ø Min. | ø Max | Cono Cone | ø A | ø B | ø C | L 1 | L 2 | Peso Weight (Kg) |
| 244200 | 40 | 70 | 4 | 18 | 41 | 87 | 95 | 125 | 4,3 |
| 254200 | 40 | 70 | 5 | 18 | 41 | 87 | 95 | 125 | 5,3 |
| 264200 | 40 | 70 | 6 | 18 | 41 | 87 | 95 | 125 | 7,8 |

| ARTIGLI RICAMBIO / Spare jaws | | | | | | PUNTA / Centre | | PUNTA SP. / Sp. centre | |
|---|---|---|--|---|-----------------|----------------|---------------|------------------------|----|
|  |  |  |  |  | | | | | |
| CODICE CODE | Rot. Neutra | CODICE CODE | Rot. SX / Left | CODICE CODE | Rot. DX / Right | CODICE CODE | CODICE CODE | L | ø |
| 214201 | ON | 214202 | OS | 214203 | OD | 214207 | 214208 | 15 | 30 |

Mod. 65



| CODICE CODE | Art. Art. | CAMPO D'IMPIEGO / Field of application | | | MISURE ESTERNE / Outer dimensions | | | | | |
|---------------|-----------|--|-------|-----------|-----------------------------------|-----|-----|-----|-----|------------------|
| | | ø Min. | ø Max | Cono Cone | ø A | ø B | ø C | L 1 | L 2 | Peso Weight (Kg) |
| 246500 | 65 - 04 | 57 | 90 | 4 | 23 | 57 | 109 | 100 | 140 | 7,0 |
| 256500 | 65 - 05 | 57 | 90 | 5 | 23 | 57 | 109 | 100 | 140 | 8,2 |
| 266500 | 65 - 06 | 57 | 90 | 6 | 23 | 57 | 109 | 100 | 140 | 9,5 |




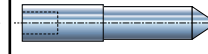
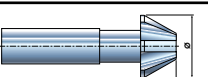
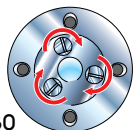
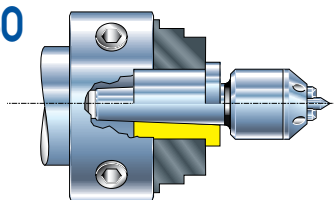
| ARTIGLI RICAMBIO / Spare jaws | | | | | | PUNTA / Centre | | PUNTA SP. / Sp. centre | |
|---|---|---|--|---|-----------------|----------------|---------------|------------------------|----|
|  |  |  |  |  | | | | | |
| CODICE CODE | Rot. Neutra | CODICE CODE | Rot. SX / Left | CODICE CODE | Rot. DX / Right | CODICE CODE | CODICE CODE | L | ø |
| 216501 | ON | 216502 | OS | 216503 | OD | 216507 | 216508 | 22 | 44 |

Fig. 1



- Il trascinatore è fornito di serie con artigli ON.
- Ruotando l'artiglio ON di 180° si aumenta il ø max tornibile fino a un 20% (vedi Fig. 1).
- The driving centre is currently equipped with ON jaws.
- Rotating the ON jaw of 180° the max. ø, which can be turned, is increased up to 20% (see Fig. 1)

Mod. 80



BUSSOLA CONICA / Conic bush

Bussola speciale per consentire la presa dei trascinatori conici direttamente sull'autocentrante
Special bush for direct mesh of the conic driving centres on the self-centering chuck

| CODICE / CODE | Cono / Cone | L 1 | L 2 | Ø A | Ø B | Peso / Weight (Kg) |
|---------------|-------------|-----|-----|-----|-----|--------------------|
| 238003 | C 3 | 65 | 8 | 35 | 44 | 0,3 |
| 238014 | C 4 | 70 | 8 | 42 | 49 | 0,45 |
| 238025 | C 5 | 80 | 10 | 54 | 59 | 0,6 |
| 238036 | C 6 | 85 | 10 | 75 | 84 | 0,75 |

TRASCINATORI MINI

MINI drivers



I trascinatori - **MINI** - sono ideali per la lavorazione di particolari di piccola dimensione. La loro forma permette un agevole passaggio del creatore in lavorazione. Realizzati con 4 artigli integrali e punta mobile, sono costruiti con acciai temperati di elevata qualità, possono essere riaffilati.

Caratteristiche:

- elevata precisione
- semplicità di utilizzo
- possibilità di riaffilatura

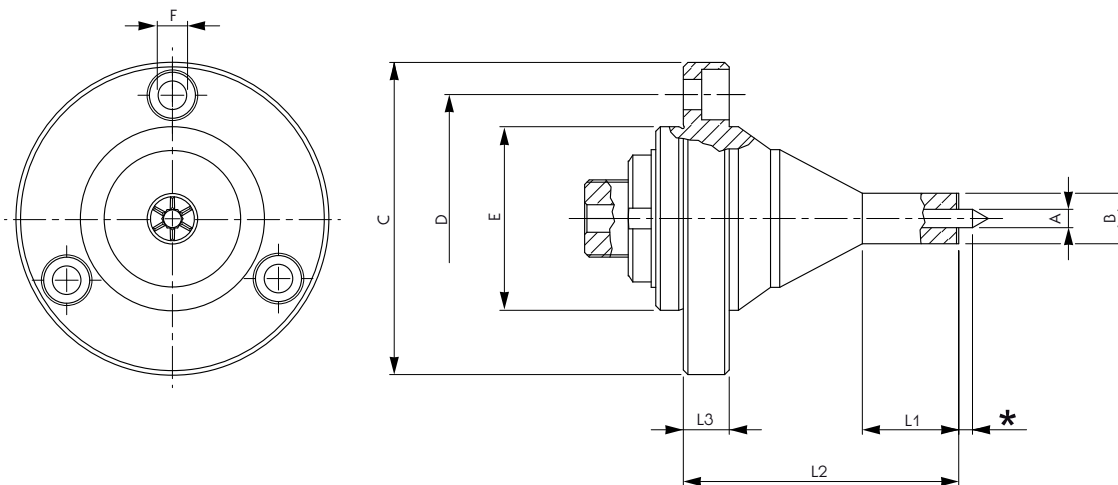
MINI - drivers are ideal for machining small parts.

The shape of these drivers allows unrestricted passage of the hob during the machining process.

Made with 4 integral drive pins and a mobile centre point, these drivers are made of high quality hardened steel and are compatible with regrinding.

Characteristics:

- high precision
- ease of use
- facility for regrinding



* CAMPO POSIZIONAMENTO / Positioning range = 3 mm

| ø C | ø D | ø E | ø F | L2 | L3 |
|-----|-----|-----|-----|----|----|
| 68 | 54 | 40 | 6,5 | 60 | 10 |

| CODICE / CODE | ø A | ø B | L1 | CODICE / CODE | ø A | ø B | L1 |
|---------------|-----|-----|----|---------------|-----|-----|----|
| 275007 | 4 | 7 | 17 | 275109 | 6 | 9 | 19 |
| 275008 | 4 | 8 | 18 | 275110 | 6 | 10 | 20 |
| 275009 | 4 | 9 | 19 | 275111 | 6 | 11 | 21 |
| 275010 | 4 | 10 | 19 | 275112 | 6 | 12 | 22 |
| 275011 | 4 | 11 | 21 | 275113 | 6 | 13 | 23 |
| | | | | 275114 | 6 | 14 | 24 |

CAMPO DI LAVORO / Working range = 6-14

TRASCINATORI MINI EL

MINI EL drivers



I trascinatori - **MINI EL** - sono una versione prolungata dei modelli MINI, ideali per la lavorazione di particolari di piccola dimensione.

La loro forma permette un agevole passaggio del creatore in lavorazione.

Realizzati con 4 artigli integrali e punta mobile, sono costruiti con acciai temperati di elevata qualità, possono essere riaffilati. A richiesta può essere installato il gruppo regolazione punta (271000) che permette il posizionamento assiale della punta centrale (figura 2).

Caratteristiche:

- elevata precisione
- semplicità di utilizzo
- possibilità di riaffilatura
- possibilità di montare gruppo regolazione punta (271000)

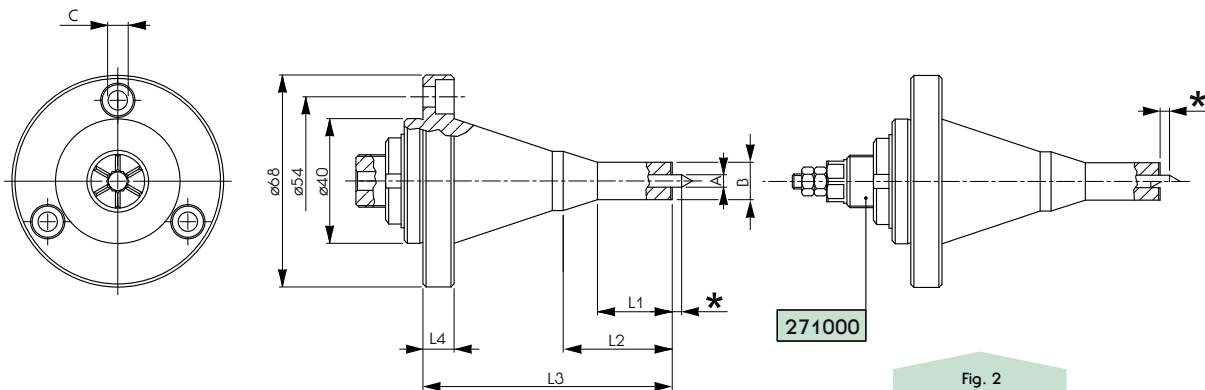
MINI EL drivers are the extended version of the MINI model, ideal for machining small size parts.

The shape of these drivers allows unrestricted passage of the hob during the machining process. Made with 4 integral drive pins and a mobile centre point, these drivers are made of high quality hardened steel and are compatible with regrinding. On request, an adjuster group (271000) can be fitted to allow axial positioning of the centre point (figure 2).

Characteristics:

- high precision
- ease of use
- facility for regrinding
- facility to fit centre point adjuster group (271000)

2



* CAMPO POSIZIONAMENTO / Positioning range = 3 mm

| ∅ C | L2 | L3 | L4 |
|-----|----|----|----|
| 6,5 | 35 | 80 | 10 |

| CODICE / CODE | A | B | L1 | CODICE / CODE | A | B | L1 |
|---------------|---|----|------|---------------|---|----|------|
| 273007 | 4 | 7 | 16,5 | 273110 | 6 | 10 | 21 |
| 273008 | 4 | 8 | 18 | 273111 | 6 | 11 | 22,5 |
| 273009 | 4 | 9 | 19,5 | 273112 | 6 | 12 | 24 |
| 273010 | 4 | 10 | 21 | 273113 | 6 | 13 | 25,5 |
| 273011 | 4 | 11 | 22,5 | 273114 | 6 | 14 | 27 |
| 273012 | 4 | 12 | 24 | 273115 | 6 | 15 | 28,5 |
| | | | | 273116 | 6 | 16 | 30 |

CAMPO DI LAVORO / Working range = 6-14

TRASCINATORI MICRO

MICRO drivers



I trascinatori - **MICRO** - sono studiati per l'utilizzo su piccole macchine dentatrici per la lavorazione di particolari di piccole dimensioni. Realizzati con 4 artigli integrali e punta mobile, sono costruiti con acciai temperati di elevata qualità, possono essere riaffilati. Sono provvisti di regolazione assiale della punta.

Caratteristiche:

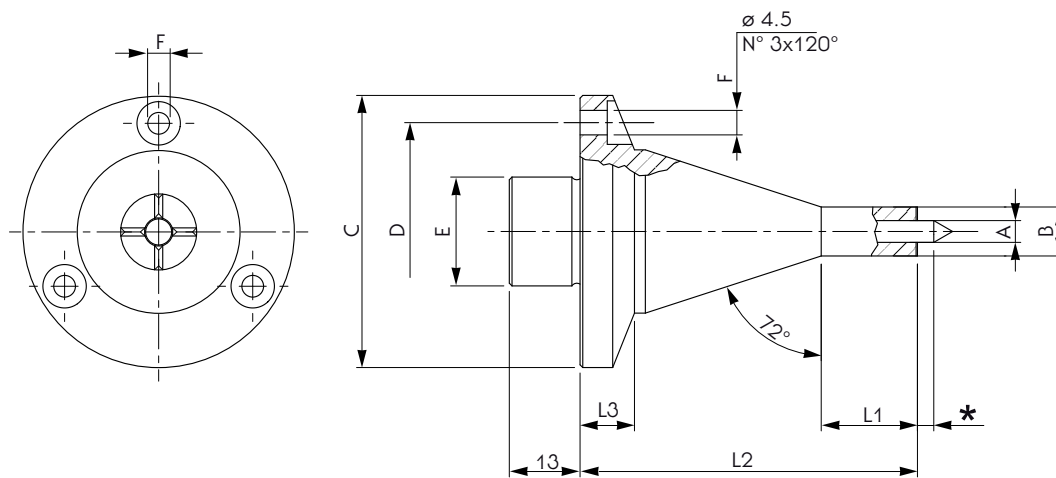
- regolazione punta
- elevata precisione
- semplicità di utilizzo
- possibilità di riaffilatura
- ingombri ridotti

MICRO drivers are designed for use on small gear cutting machines for machining small parts.

Made with 4 integral drive pins and a mobile centre point, these drivers are made of high quality hardened steel and are compatible with regrinding. Micro drivers feature centre point axial adjustment.

Characteristics:

- centre point adjustment
- high precision
- ease of use
- facility for regrinding
- compact size



* CAMPO POSIZIONAMENTO / Positioning range = 3 mm

| ø C | ø D | ø E | ø F | L2 | L3 |
|-----|-----|-----|-----|----|----|
| 50 | 40 | 20 | 4,5 | 62 | 10 |

| CODICE / CODE | ø A | ø B | L1 | CODICE / CODE | A | B | L1 |
|---------------|-----|-----|------|---------------|---|----|------|
| 276007 | 4 | 7 | 14,5 | 276109 | 6 | 9 | 17,5 |
| 276008 | 4 | 8 | 16 | 276110 | 6 | 10 | 19 |
| 276009 | 4 | 9 | 17,5 | 276111 | 6 | 11 | 20,5 |
| 276010 | 4 | 10 | 19 | 276112 | 6 | 12 | 22 |
| 276011 | 4 | 11 | 20,5 | 276113 | 6 | 13 | 23,5 |
| 276012 | 4 | 12 | 22 | 276114 | 6 | 14 | 25 |
| 276013 | 4 | 13 | 23,5 | 276115 | 6 | 15 | 26,5 |
| 276014 | 4 | 14 | 25 | 276116 | 6 | 16 | 28 |

CAMPO DI LAVORO / Working range = 6-14

TRASCINATORI INTEGRALI

INTEGRAL drivers



I trascinatori - **INTEGRALI** - sono ideali per la lavorazione di particolari di media dimensione.

Realizzati con 6 artigli integrali e punta mobile, sono costruiti con acciai temperati di elevata qualità, possono essere riaffilati. A richiesta può essere installato il gruppo regolazione punta (271000) che permette il posizionamento assiale della punta centrale.

Caratteristiche:

- regolazione punta
- elevata precisione
- semplicità di utilizzo
- possibilità di riaffilatura
- possibilità di montare gruppo regolazione punta (271000)

INTEGRAL drivers are ideal for machining medium size parts.

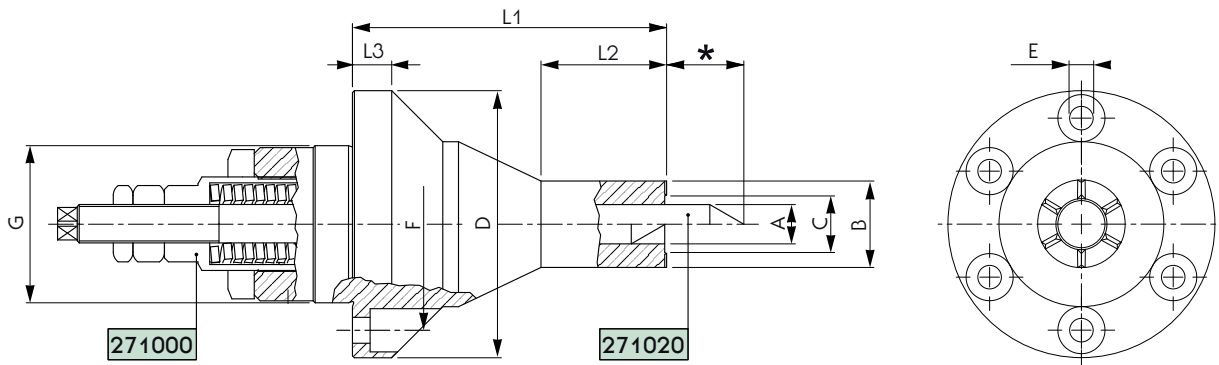
Made with 6 integral drive pins and a mobile centre point, these drivers are made of high quality hardened steel and are compatible with regrinding.

On request, an adjuster group (271000) can be fitted to allow axial positioning of the centre point.

Characteristics:

- centre point adjustment
- high precision
- ease of use
- facility for regrinding
- facility to fit centre point adjuster group (271000)

2



* CAMPO POSIZIONAMENTO / Positioning range = 3 mm

| ø D | ø E | ø F | ø G | L2 | L3 |
|-----|-----|-----|-----|----|----|
| 68 | 6,5 | 54 | 40 | 80 | 10 |

| CODICE / CODE | ø A | ø B | ø C | L2 | CODICE / CODE | ø A | ø B | ø C | L2 |
|---------------|-----|-----|-----|----|---------------|-----|-----|-----|----|
| 274014 | 8 | 14 | - | 23 | 274134 | 12 | 34 | 24 | 44 |
| 274016 | 8 | 16 | - | 25 | 274136 | 12 | 36 | 26 | 46 |
| 274018 | 8 | 18 | - | 27 | 274222 | 16 | 22 | - | 31 |
| 274020 | 8 | 20 | - | 29 | 274224 | 16 | 24 | - | 33 |
| 274118 | 12 | 18 | - | 27 | 274226 | 16 | 26 | - | 36 |
| 274120 | 12 | 20 | - | 29 | 274326 | 20 | 26 | - | 36 |
| 274122 | 12 | 22 | - | 31 | 274328 | 20 | 28 | - | 38 |
| 274124 | 12 | 24 | - | 33 | 274330 | 20 | 30 | - | 40 |
| 274126 | 12 | 26 | 16 | 36 | 274332 | 20 | 32 | - | 42 |
| 274128 | 12 | 28 | 18 | 38 | 274334 | 20 | 34 | 24 | 44 |
| 274130 | 12 | 30 | 20 | 40 | 274336 | 20 | 36 | 26 | 46 |
| 274132 | 12 | 32 | 22 | 42 | | | | | |

CAMPO DI LAVORO / Working range = 10-36

TRASCINATORE RIBASSATO TD-R

TD-R LOW PROFILE-driver



Il trascinatore - **RIBASSATO TD-R** - ha un ingombro assiale ridotto questo permette il suo impiego anche su macchine dentatrici a strozzare munite di contropunta. Realizzati con 6 artigli integrali e punta mobile, sono costruiti con acciai temperati di elevata qualità, possono essere riaffilati. A richiesta può essere installato il gruppo regolazione punta (271000) che permette il corretto posizionamento assiale della punta centrale (271020).

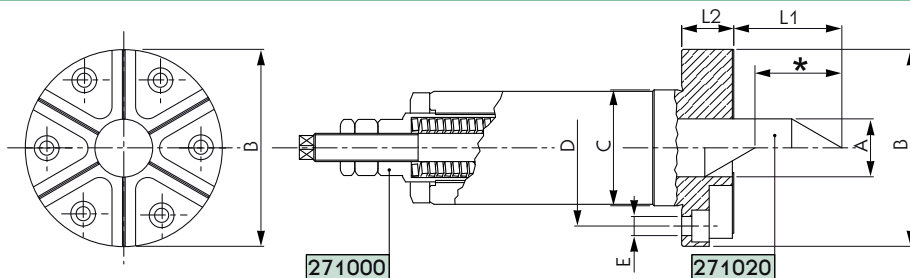
Caratteristiche:

regolazione punta - elevata precisione - semplicità di utilizzo - possibilità di raffilatura

The **TD-R LOW PROFILE**-driver features reduced axial dimensions to allow its use also on gear cutting machines equipped with a railstock. Made with 6 integral drive pins and a mobile centre point, these drivers are made of high quality hardened steel and are compatible with regrinding.

Characteristics:

centre point adjustment - high precision - ease of use - facility for regrinding



* Campo posizionamento
Positioning range = 30 mm

| CODICE / CODE | ø A | ø B | ø C | ø D | E | L1 | L2 |
|---------------|-----|-----|-----|-----|-----|----|----|
| 272000 | 20 | 68 | 40 | 54 | 6,5 | 37 | 18 |

Campo di lavoro
Working range = 22-66 mm

TRASCINATORI INTERCAMBIABILI

Interchangeable drivers



I trascinatori - **INTERCAMBIABILI** - sono ideali per la lavorazione di particolari di media e grande dimensione.

Un accurato studio dei componenti permette una combinazione modulare che risponde ad un'ampia esigenza di lavorazioni con estrema rapidità e semplicità nei cambi di produzione. Realizzati con 6 artigli integrali e punta mobile, sono costruiti con acciai temperati di elevata qualità, possono essere riaffilati. Il trascinatore completo è composto da: gruppo regolazione + corpo + punta + restina.

Caratteristiche:

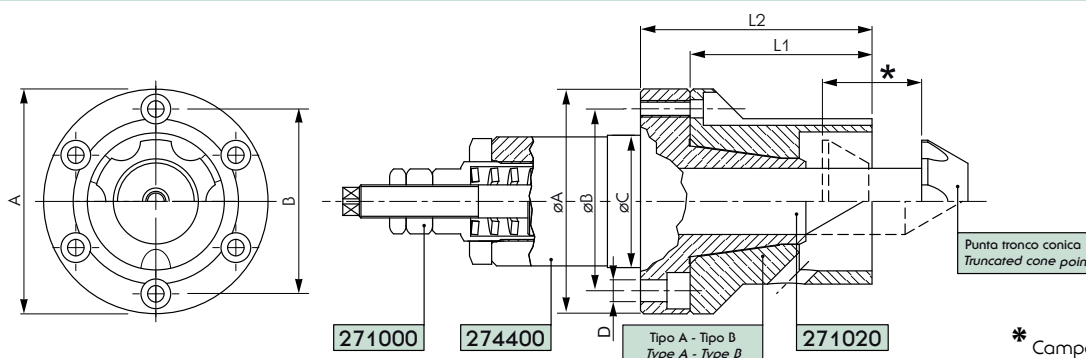
regolazione punta - elevata precisione - semplicità di utilizzo - possibilità di raffilatura - rapida intercambiabilità dei componenti.

INTERCHANGEABLE drivers are ideal for machining medium and large parts. Careful design of the components allows modular configurations to comply with a broad range of machining requirements rapidly while ensuring simple production changeovers.

Made with 6 integral drive pins and a mobile centre point, these drivers are made of high quality hardened steel and are compatible with regrinding. The complete driver consists of: adjuster group + body + centre point + head.

Characteristics:

centre point adjustment - high precision - ease of use - facility for regrinding - fast components interchange.



* Campo posizionamento
Positioning range = 30 mm

| CODICE / CODE | ø A | ø B | ø C | L1 | L2 |
|---------------|-----|-----|-----|----|----|
| 274400 | 68 | 54 | 40 | 55 | 70 |

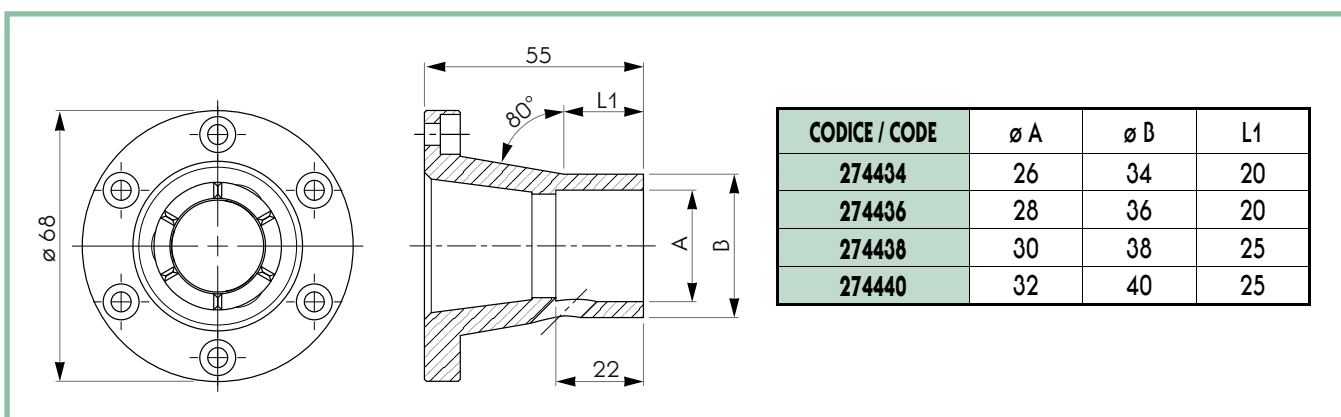
Campo di lavoro
Working range = 22-66 mm

TESTINE DI TRASCINAMENTO TIPO A

Driving heads Type A

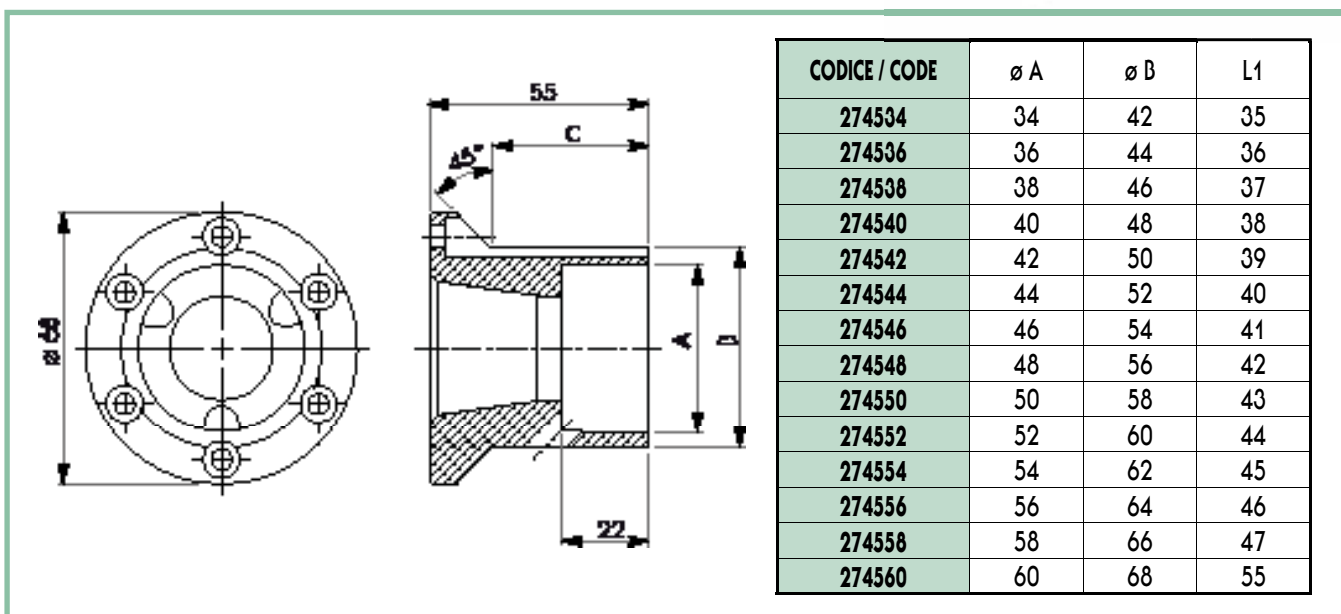
Realizzate in acciai temperati di elevata qualità, possono essere riaffilate. Nella versione standard sono dotate di 6 artigli. Le lavorazioni di elevata precisione permettono una intercambiabilità dei componenti senza compromettere la precisione dell'attrezzatura.

Made of high quality steels, these tools are suitable for regrinding. The standard version is equipped with 6 driving pins. High precision machining allows perfect interchangeability of components without affecting the precision of the tool.


2


TESTINE DI TRASCINAMENTO TIPO B

Driving heads Type B



GRUPPO REGOLAZIONE PUNTA COD. 271000

Centre point adjuster group



2 Il gruppo regolazione punta è dotato di un sistema a cambio rapido della punta che permette un preciso posizionamento della punta nelle lavorazioni da eseguire mantenendo costante il carico della punta.

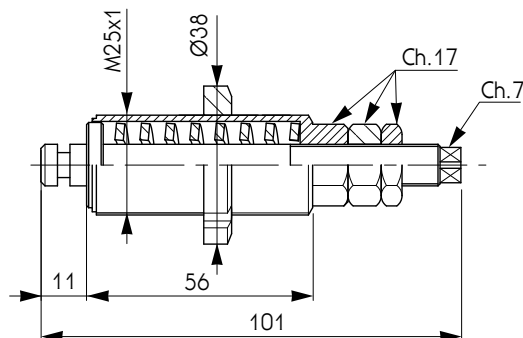
Nella fornitura standard il carico molla è di tipo leggero, può essere fornito con diverse tipologie di carico a richiesta.

Per trascinatori tipo: **MINI-EL - INTEGRALI - RIDASSATO TD-R - INTERCAMBIABILI.**

The centre point adjuster group is equipped with a quick centre point changeover system that allows accurate positioning of the centre point in work that requires a constant centre point load.

In the standard supply spring load is light, although the group can be supplied with different load types on request.

For driver types: **MINI-EL - INTEGRAL - LOW PROFILE TD-R - INTERCHANGEABLE.**



PUNTA STANDARD

Standard centre point

PUNTA Ø 20 STANDARD COD. 271020
STANDARD CENTRE POINT Ø 20 CODE 271020



Realizzate in acciaio temperato di elevata qualità, possono essere riaffilate.

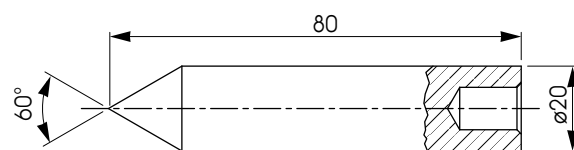
Le lavorazioni di elevata precisione permettono una intercambiabilità dei componenti senza compromettere la precisione dell'attrezzatura.

Per trascinatori tipo: **INTEGRALI - RIDASSATO TD-R - INTERCAMBIABILI.**

Made of high quality steel, the centre points are suitable for regrinding.

High precision machining allows interchangeability of components without affecting the precision of the tool.

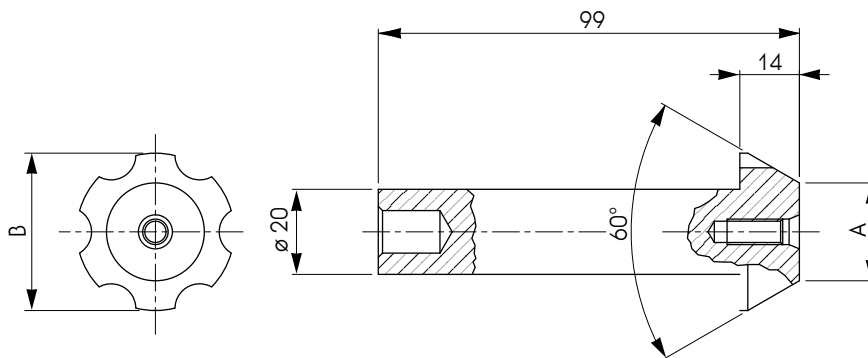
For drivers type: **INTEGRAL - LOW PROFILE TD-R - INTERCHANGEABLE.**



PUNTA TRONCO CONICA
Truncated cone centre point


Realizzate in acciaio temperato di elevata qualità, possono essere riaffilate. Le lavorazioni di elevata precisione permettono una intercambiabilità dei componenti senza compromettere la precisione dell'attrezzatura.
 Per trascinatori tipo **INTERCAMBIABILI**

Made of high quality steel, these centre points are suitable for regrinding. High precision machining allows interchangeability of components without affecting the precision of the tool.
 For **INTERCHANGEABLE** type drivers.

2


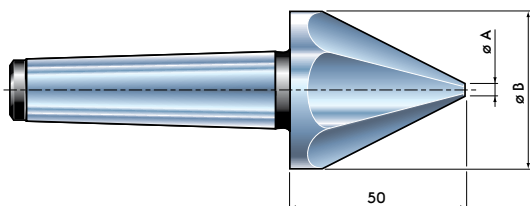
| CODICE / CODE | A | B | CODICE / CODE | A | B | CODICE / CODE | A | B |
|---------------|----|----|---------------|----|----|---------------|----|----|
| 271025 | 11 | 25 | 271037 | 23 | 37 | 271049 | 35 | 49 |
| 271027 | 13 | 27 | 271039 | 25 | 39 | 271051 | 37 | 51 |
| 271029 | 15 | 29 | 271041 | 27 | 41 | 271053 | 39 | 53 |
| 271031 | 17 | 31 | 271043 | 29 | 43 | 271055 | 41 | 55 |
| 271033 | 19 | 33 | 271045 | 31 | 45 | 271057 | 43 | 57 |
| 271035 | 21 | 35 | 271047 | 33 | 47 | 271059 | 45 | 59 |

TRASCINATORE PER TUBI CON TESTINA INTEGRALE IN HSS

Pipe driving centre with integral head in HSS

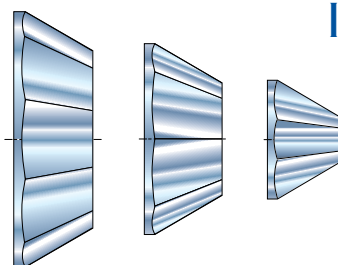
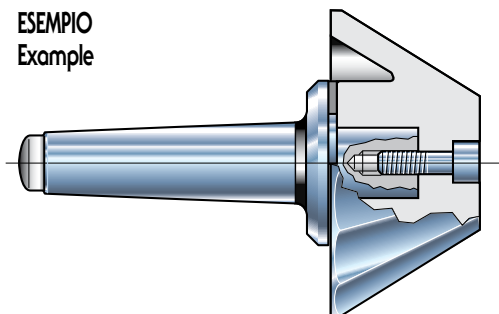


Mod. TFT



| CODICE / CODE | Cono / Cone | $\varnothing A$ | $\varnothing B$ | Peso / Weight (Kg) |
|---------------|----------------------------|-----------------|-----------------|--------------------|
| 221200 | 2 | 8 | 48 | 0,5 |
| 231300 | 3 | 8 | 48 | 0,7 |
| 241400 | 4 | 8 | 48 | 1,0 |
| 251500 | 5 | 8 | 48 | 1,9 |
| 201600 | $\varnothing 30 \times 50$ | 8 | 48 | 0,8 |

ESEMPIO
Example

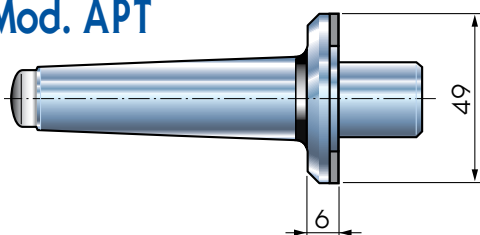


TRASCINATORE PER TUBI CON TESTINA INTERCAMBIABILE IN HSS

Pipe driving centre with
interchangeable
head in HSS



Mod. APT

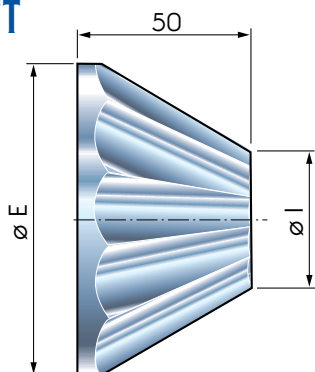


ATTACCO PORTA TESTINA TRASCINAMENTO

Driving head holder coupling

| CODICE / CODE | 231301 | 241401 | 251501 | 261601 | 201701 |
|--------------------|--------|--------|--------|--------|----------------------------|
| Cono / Cone | 3 | 4 | 5 | 6 | $\varnothing 40 \times 60$ |
| Peso / Weight (Kg) | 0,5 | 0,7 | 1,6 | 2,3 | 0,5 |

Mod. TT



TESTINE DI TRASCINAMENTO / Driving heads

| CODICE / CODE | $\varnothing I$ | $\varnothing E$ | Peso / Weight (Kg) |
|---------------|-----------------|-----------------|--------------------|
| 201318 | 18 | 68 | 1,6 |
| 201365 | 63 | 113 | 2,1 |
| 201311 | 108 | 158 | 3,7 |
| 201315 | 150 | 200 | 6,2 |
| 201320 | 195 | 245 | 9,0 |

- Confezione per set completo: cassetta in legno.
- A richiesta altri \varnothing di trascinatori.
- Packing for complete set: wooden box.
- Other driving centres \varnothing on request.

Le bridle di trascinamento a bloccaggio rapido servono per il trascinamento del pezzo da lavorare quando è fissato fra le due punte.

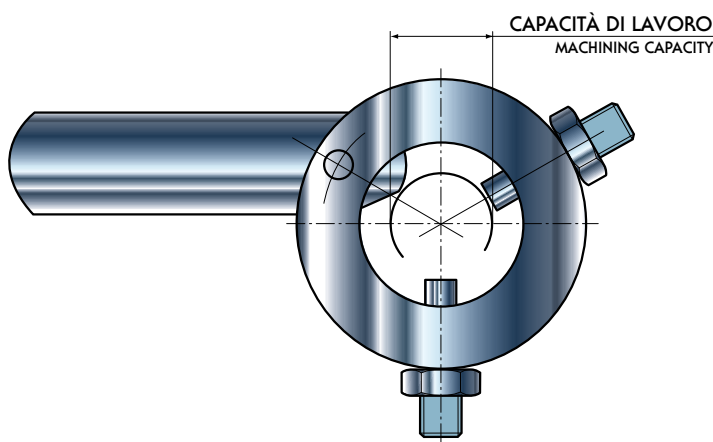
Il loro impiego risulta molto vantaggioso nelle lavorazioni di rettifica in serie.

Infatti con la loro rapidità di apertura e di chiusura si riduce notevolmente il tempo di sostituzione del pezzo in macchina, con conseguenti risparmi economici.

The fast-clamp driving dogs are used to pull the workpiece when it is fixed between two drills.

They are highly useful in mass grinding processes.

In fact, their high-speed opening and closing allows a significant reduction in the time necessary for changing the piece on the machine tool, which also means cost savings.


2


| CODICE CODE | CAPACITÀ DI LAVORO MACHINING CAPACITY | Peso (Kg) Weight (Kg) |
|----------------|--|--------------------------|
| 001008 | 00 ÷ 08 | 0,07 |
| 001016 | 08 ÷ 16 | 0,13 |
| 001024 | 16 ÷ 24 | 0,2 |
| 001032 | 24 ÷ 32 | 0,22 |
| 001040 | 32 ÷ 40 | 0,36 |
| 001048 | 40 ÷ 48 | 0,5 |
| 001056 | 48 ÷ 56 | 0,66 |
| 001064 | 56 ÷ 64 | 0,71 |
| 001072 | 64 ÷ 72 | 0,77 |
| 001080 | 72 ÷ 80 | 0,83 |
| 001090 | 80 ÷ 90 | 1,1 |
| 001100 | 90 ÷ 100 | 1,2 |
| 001110 | 100 ÷ 110 | 1,3 |
| 001120 | 110 ÷ 120 | 1,35 |

RICAMBI: sono disponibili come ricambi delle bridle la LEVA e la MOLLA.

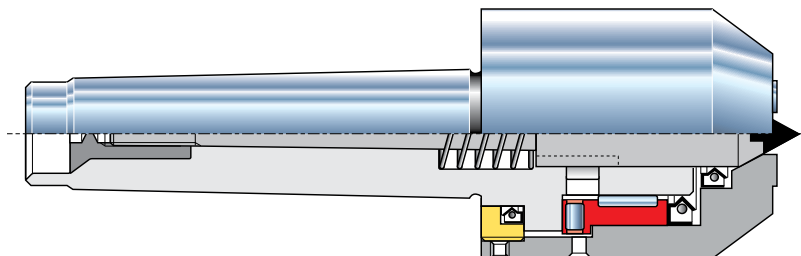
Nell'ordine citare il tipo di articolo.

SPARE PARTS: LEVERS and SPRINGS are available as spare parts. Specify the type of item when ordering.



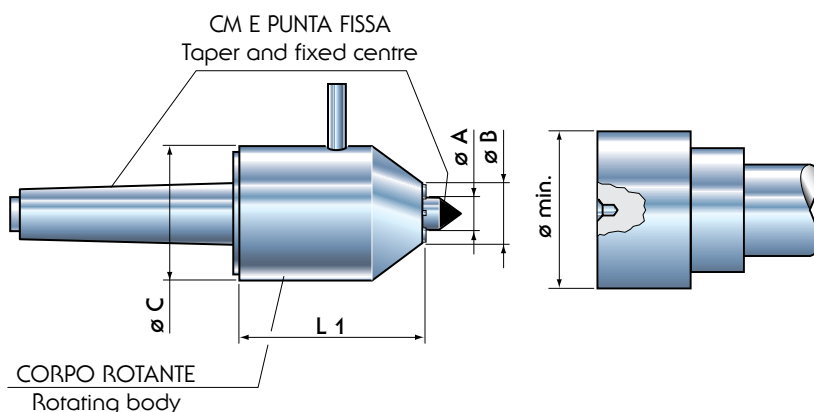
Attrezzo indispensabile per lavorazioni di alberi dove sia necessario eseguire la rettifica delle battute di rasamento. Anche in presenza di notevoli differenze della profondità di centratura, il sistema di autoregolazione della punta di RT 2000 permette di avere sempre un preciso punto di riferimento (errore max $\pm 0,005$ mm) garantendo ripetitività e rapidità d'esecuzione.

It is a fundamental tool for working shafts where the grinding of shim stops should be carried out. Even if there are great differences in the centering depth, the self-adjusting system of the RT 2000 centre allows to always have an exact reference point (max. error $\pm 0,005$ mm) ensuring repetitiveness and quickness of execution.



3

Mod. RT 2000

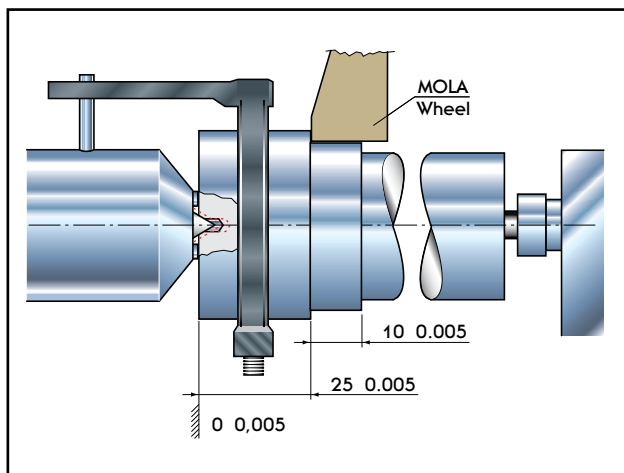


| Cono Morse / Taper | 4 | 5 |
|----------------------|---------------|---------------|
| CODICE / CODE | 720004 | 720005 |
| ø A (mm) | 8 | 12 |
| ø B (mm) | 30 | 40 |
| ø C (mm) | 59 | 69 |
| ø L 1 (mm) | 70 | 80 |
| ø min (mm) | 10 | 15 |
| Peso / Weight (Kg) | 1,8 | 2,0 |

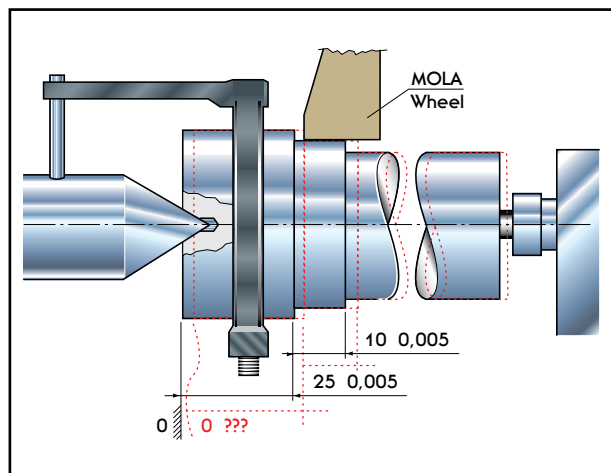
Altri ø e CM a richiesta.
Different ø and CM on request.

ESEMPIO DI ESECUZIONE / Example of execution

RETTIFICA CON SISTEMA RT 2000
Grinding with RT 2000 system



RETTIFICA CON SISTEMA CONVENZIONALE
Grinding with conventional system





È un attrezzo appositamente realizzato per la ravnatura di mole diamantate e Borazon. È studiato per essere di facile utilizzo e con la massima protezione antinfortunistica.

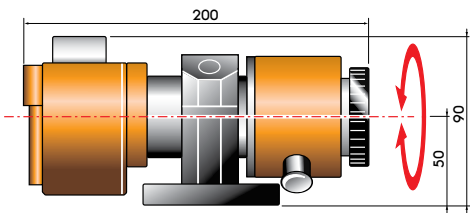
It is a tool especially manufactured for dressing diamond and borazon grinding wheels. It is studied for being easily used and with maximum accident protection.



Mod. 100000

Con orientamento su 1 asse - Avviamento Manuale
With 1-axis rotation - Manual Starting

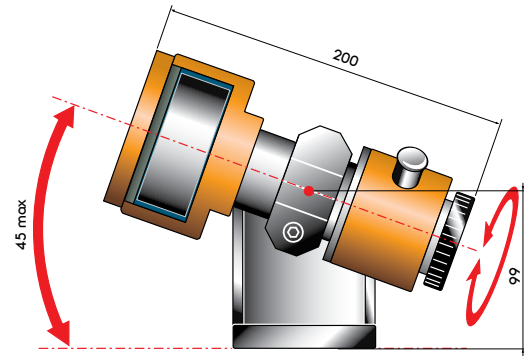
| CODICE CODE | Versione Version | Peso (Kg) Weight (Kg) |
|-------------|--|-----------------------|
| 100000 | orientabile su 1 asse adjustable on 1 axis | 5,0 |



Mod. 110000

Con orientamento su 2 assi - Avviamento Manuale
With 2-axes rotation - Manual Starting

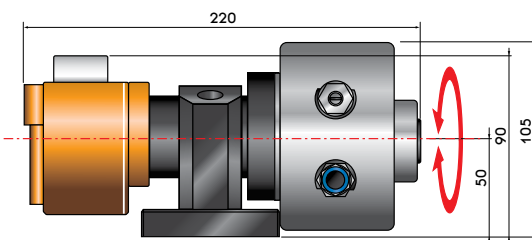
| CODICE CODE | Versione Version | Peso (Kg) Weight (Kg) |
|-------------|--|-----------------------|
| 110000 | orientabile su 2 assi adjustable on 2 axes | 6,8 |



Mod. 120000

Con orientamento su 1 asse - Avviamento Motorizzato
With 1-axis rotation - Motorized Starting

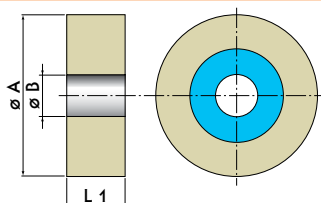
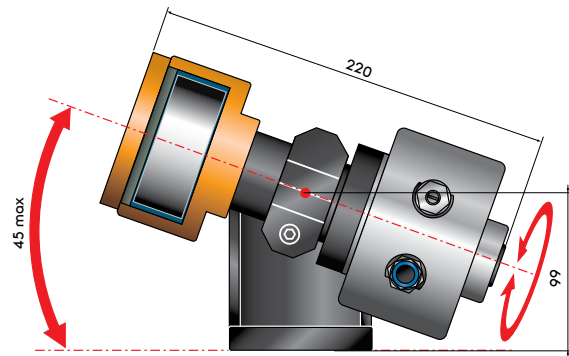
| CODICE CODE | Versione Version | Peso (Kg) Weight (Kg) |
|-------------|--|-----------------------|
| 120000 | orientabile su 1 asse adjustable on 1 axis | 8,5 |



Mod. 130000

Con orientamento su 2 assi - Avviamento Motorizzato
With 2-axes rotation - Motorized Starting

| CODICE CODE | Versione Version | Peso (Kg) Weight (Kg) |
|-------------|--|-----------------------|
| 130000 | orientabile su 2 assi adjustable on 2 axes | 10,5 |



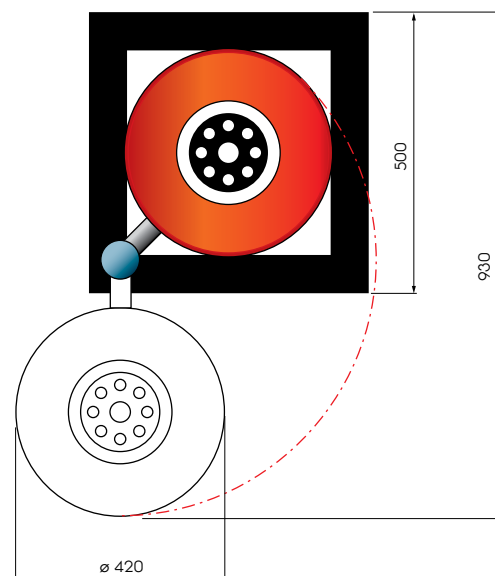
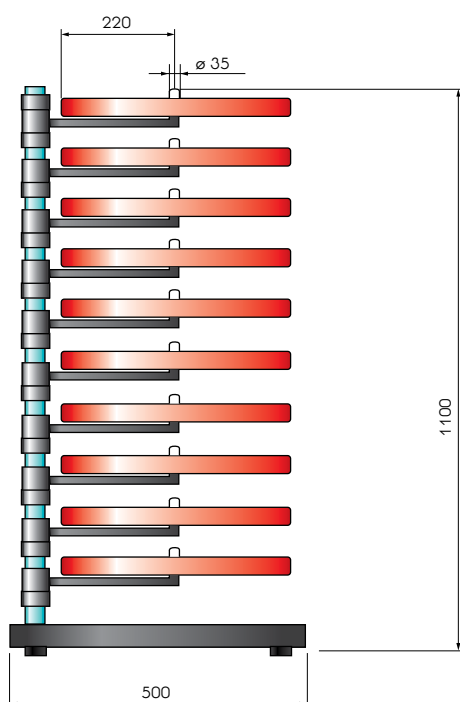
Mod. 100001

Mola abrasiva di ricambio
Spare lapping wheel

| CODICE CODE | Versione Version | L1 | øA | øB | Peso (Kg) Weight (Kg) |
|-------------|------------------|----|----|------|-----------------------|
| 100001 | Mola / Wheel | 25 | 76 | 12,7 | 0,2 |

Sistema per lo stoccaggio delle mole per rettifica di qualunque tipo e spessore, fino ad un diametro di Ø 420 mm. Studiato per garantire l'estrema praticità di utilizzo con il minimo ingombro, unisce flessibilità e modularità.

System for storing grinding wheels of every type and thickness, up to a diameter of Ø 420 mm. Designed to guarantee extreme practicality in highly compact dimensions, it combines flexibility and modularity.



| | |
|--|---------------|
| CODICE CODE | 090007 |
| INGOMBRO OVERALL DIMENSIONS | 50x50 - h110 |
| NR. SUPPORTI IN DOTAZIONE NO. OF SUPPORTS PROVIDED | 10 |
| PESO MAX PER SUPPORTI MAX WEIGHT FOR SUPPORT | 17kg |
| PESO MAX TOTALE MAX TOTAL WEIGHT | 170kg |
| PESO A VUOTO CON 10 SUPPORTI WEIGHT WHEN EMPTY WITH 10 SUPPORTS | 30kg |

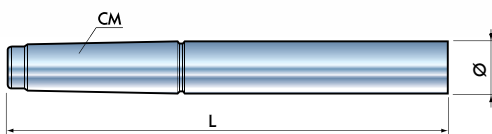
FLANGE PORTAMOLE

Grinding wheel flange support



CONI PER ALLINEAMENTO

Alignment cones



| CODICE CODE | Attacco Connector | Ø | L | Peso Weight |
|-------------|-------------------|------|-----|-------------|
| 090002 | CM 2 | 18 | 207 | 0,9 |
| 090003 | CM 3 | 24,1 | 258 | 2,0 |
| 090004 | CM 4 | 31,6 | 327 | 3,3 |
| 090005 | CM 5 | 44,7 | 407 | 5,3 |
| 090006 | CM 6 | 63,8 | 570 | 14,0 |

PROLUNGA PORTAMOLA PER INTERNI

Grinding wheel connectors for internal rectification spindles





Godronatore a ricalco

La godronatura eseguita al tornio comporta notevoli difficoltà e rischi: pezzi rovinati dalle griffe dell'auto-centrante per il notevole carico, alberi lunghi che flettono, pezzi corti che si sfilano dall'auto-centrante... Il più grave è il deteriorarsi della macchina, che lavorando a carico forzato ne subisce notevolmente la testata e la vite del carrello. A tali inconvenienti, fino ad ora insoluti, si può ovviare mediante il nuovo Godron Special.

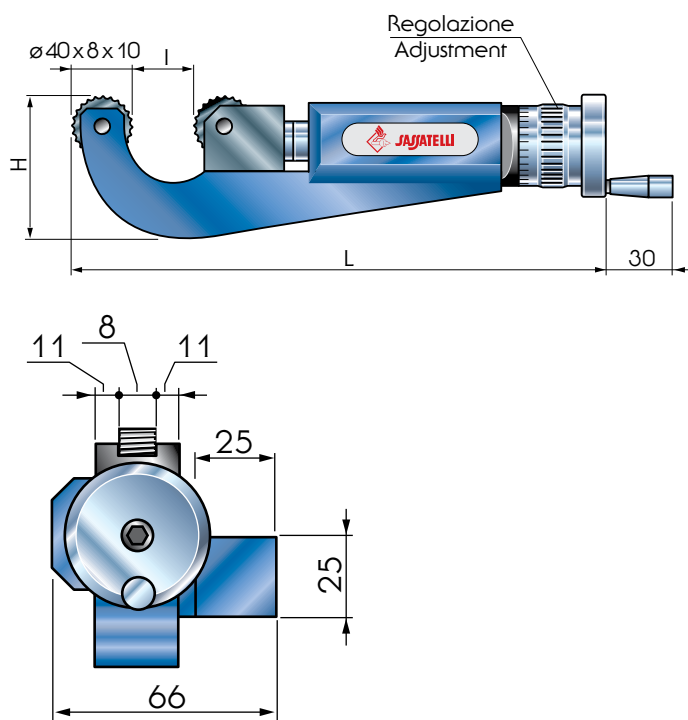
Tracing knurling device

The knurling carried out with the lathe implies great difficulties and risks: parts damaged by the jaws of the self-centering chuck for the high load, long shafts bending, short parts going out of the self-centering chuck... The most serious problem is the deterioration of the machine: working under forced load the head and screw of the carriage suffer a lot. These problems, up to now unsolved, can be settled with the new Special Godron.

3

Mod. 19

| CODICE CODE | H | L | Ø di esecuzione Ø of execution | Peso (Kg) Weight (Kg) |
|-------------|-----|-----|-----------------------------------|--------------------------|
| 601900 | 72 | 267 | Da / From Ø 1 a / up to Ø 30 mm | 4,0 |
| 601910 | 88 | 297 | Da / From Ø 30 a / up to Ø 60 mm | 4,4 |
| 601920 | 102 | 326 | Da / From Ø 60 a / up to Ø 90 mm | 4,9 |



Caratteristiche tecniche

Avendo due rulli contrapposti il **carico radiale è completamente assorbito dal dispositivo**.

Godrona qualsiasi pezzo, corto o lungo, di vario diametro con precisione. È di notevole robustezza e temperato nelle parti sottoposte a usura. È di facile montaggio: basta stringerlo come un normale utensile da taglio alla torretta.

Ogni modello di Godron ha una corsa di 30 mm azzerabile tramite un nonio graduato.

Technical features

The radial load is completely absorbed by the device because of the two opposite rollers.

It knurls any short or long part of different diameter with precision. It is strong and hardened in the parts subject to wear.

It can be easily assembled. It should be tightened to the turret as a standard cutting tool. Each Godron model has a stroke of mm 30 which can be zeroed with a graduated nonius.

Si eseguono godronatori speciali fino a Ø 500.

Special knurling devices up to Ø 500 can be carried out.

I godronatori sono forniti senza rondelle godronatrici (vedi pagina 58).

The knurling devices are supplied without knurling washers (see page 58).

Godronatore a deformazione

Anche sul CNC abbiamo, mediante il nuovo CN/MAG, migliorato notevolmente il sistema di godronatura. Può eseguire godronature con estrema precisione in tempi ridotti, senza recare pressione alcuna in quanto lavora con due rulli contrapposti che permettono di far assorbire completamente la forza radiale della lavorazione al dispositivo. È costruito in due modelli con versione destra e sinistra. Ampio campo di lavoro con bracci normali da $\varnothing 10$ a $\varnothing 40$, sullo stesso corpo si possono montare altri 2 bracci speciali per godronatura da $\varnothing 40$ a $\varnothing 70$.

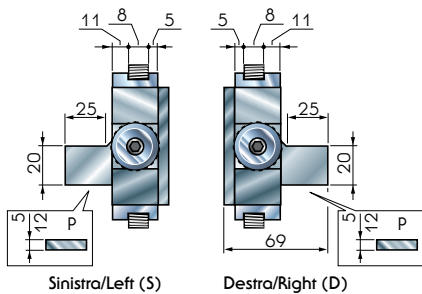
Deformation knurling device

We have improved the knurling system very much with the new CN/MAG also on CNC. It can carry out knurls with great exactness in reduced times, without pressure because it works with two opposite rollers which allow the device to absorb all the radial force of the working. It is manufactured in two models with right and left version. Big work range with standard arms from $\varnothing 10$ to $\varnothing 40$. On the same body other 2 special arms for knurling can be assembled from $\varnothing 40$ to $\varnothing 70$.



I godronatori sono forniti senza rondelle godronatrici (vedi pagina 58).

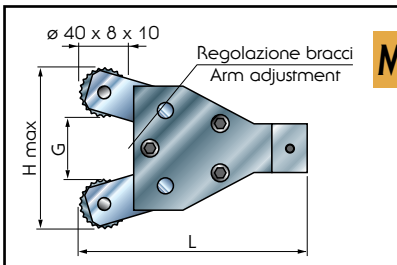
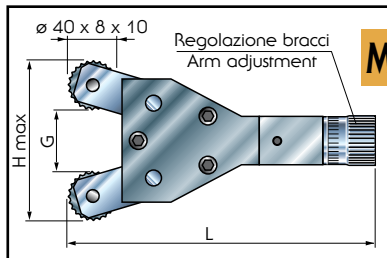
The knurling devices are supplied without knurling washers (see page 58).







Adattatore per portautensili a serraggio frontale, per godronatori Mod. 193 -293.

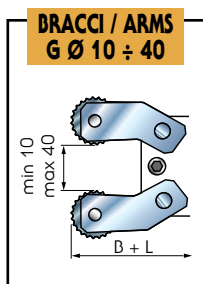
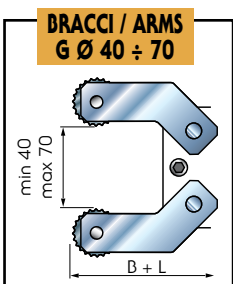
Tool-holder adapter for front clamping, suitable for knurling devices Mod. 193 -293.

3



| CODICE CODE | H | L | G \varnothing di esecuzione \varnothing of execution | Peso (Kg) Weight (Kg) |
|-------------|-----------------------------------|-----|--|---|
| 601930/D | 120 | 237 | $\varnothing 10 \div \varnothing 40$ mm | 4,0 |
| 601930/S | 120 | 237 | $\varnothing 10 \div \varnothing 40$ mm | 4,0 |
| 601931 | Spessore / Thickness \neq 5 mm | | |  |
| 601932 | Spessore / Thickness \neq 12 mm | | |  |


| CODICE CODE | H | L | G \varnothing di esecuzione \varnothing of execution | Peso (Kg) Weight (Kg) |
|-------------|-----------------------------------|-----|--|---|
| 602931/D | 120 | 175 | $\varnothing 10 \div \varnothing 40$ mm | 4,0 |
| 602931/S | 120 | 175 | $\varnothing 10 \div \varnothing 40$ mm | 4,0 |
| 601931 | Spessore / Thickness \neq 5 mm | | |  |
| 601932 | Spessore / Thickness \neq 12 mm | | |  |



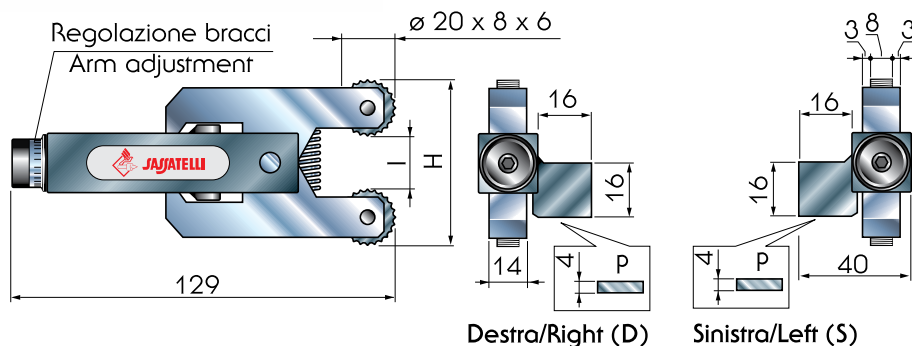
BRACCI / Arms



| CODICE CODE | B | G \varnothing di esecuzione \varnothing of execution | Peso (Kg) Weight (Kg) | Per For |
|-------------|--------|--|-----------------------|----------|
| 602940 | 15 + L | $\varnothing 40 \div \varnothing 70$ mm | 1,0 | Mod. 193 |
| 603940 | 0 + L | $\varnothing 10 \div \varnothing 40$ mm | 0,8 | |
| 604940 | 15 + L | $\varnothing 40 \div \varnothing 70$ mm | 1,0 | Mod. 293 |
| 605940 | 0 + L | $\varnothing 10 \div \varnothing 40$ mm | 0,8 | |

Mod. G 189

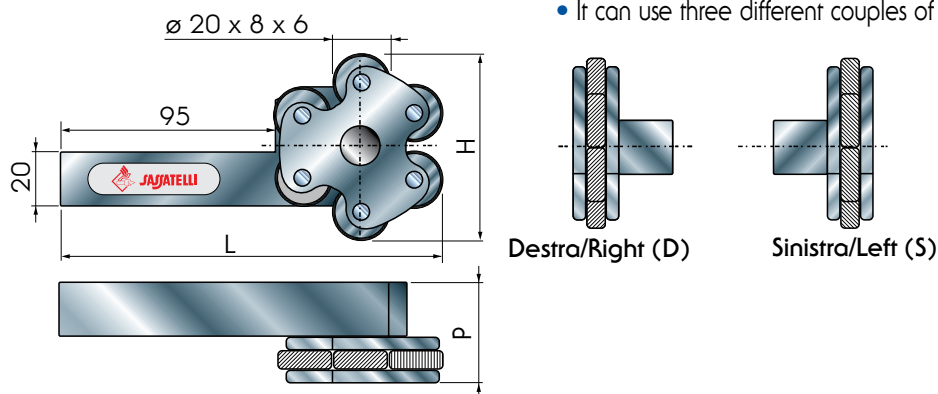

| CODICE CODE | H | ∅ di esecuzione (l) ∅ of execution (l) | Peso (Kg) Weight (Kg) |
|----------------|-----------------------------|---|---|
| 601891/D | 60 | ∅ 4 ÷ ∅ 20 mm | 0,8 |
| 601891/S | 60 | ∅ 4 ÷ ∅ 20 mm | 0,8 |
| 601893 | Spessore / Thickness ≠ 4 mm | |  |

- Ingombri ridotti per godronatura max ∅ 20 mm.
- Eliminazione totale della pressione sulla macchina e sul pezzo.
- Reduced overall dimensions for max knurling ∅ 20 mm.
- Total elimination of the pressure on the machine and part.


Mod. G 300


| CODICE CODE | P | H | L | Peso (Kg) Weight (Kg) |
|----------------|------------------------------|----|---|--------------------------|
| 603001/D | 38 | 66 | 145 | 1,0 |
| 603001/S | 38 | 66 | 145 | 1,0 |
| 601931 | Spessore / Thickness ≠ 5 mm | |  | |
| 601932 | Spessore / Thickness ≠ 12 mm | |  | |

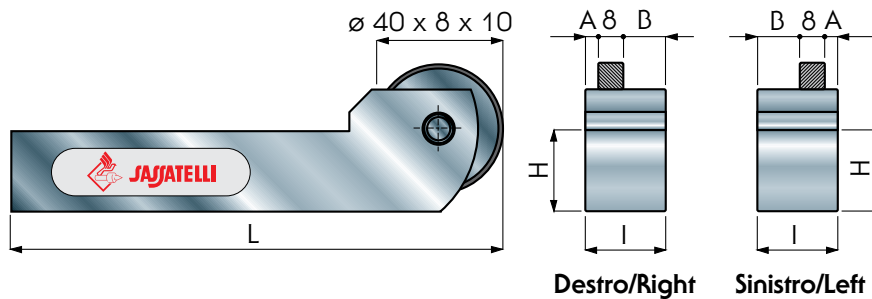
- Testa rotante autocentrante.
- Può utilizzare tre diverse coppie di godroni (AA - BL - BR).
- Self-centering rotating head.
- It can use three different couples of knurls (AA - BL - BR).



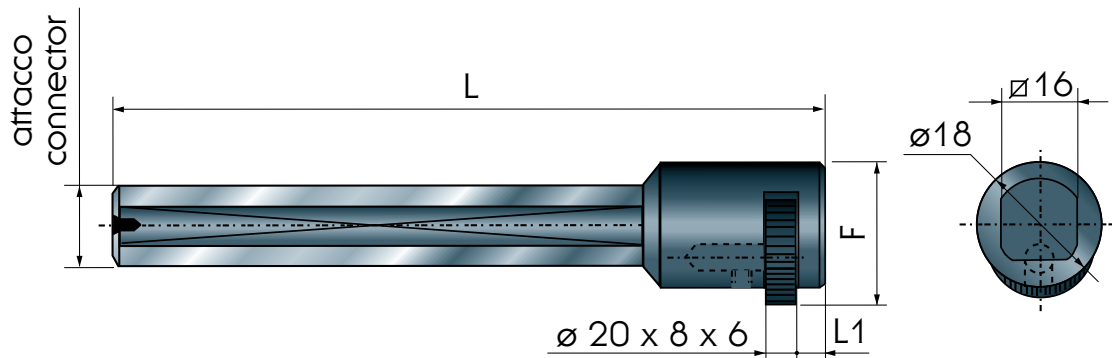
Mod. G 420 - G 425

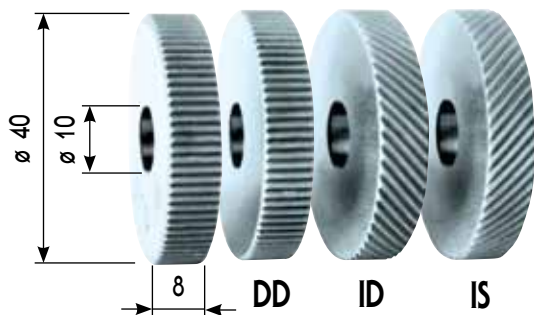

| CODICE CODE | I x H | L | A | B | Peso (Kg) Weight (Kg) |
|----------------|---------|-----|---|----|--------------------------|
| 604200/D | 20 x 20 | 145 | 4 | 8 | 0,4 |
| 604200/S | 20 x 20 | 145 | 4 | 8 | 0,4 |
| 604250/D | 25 x 25 | 155 | 4 | 13 | 0,7 |
| 604250/S | 25 x 25 | 155 | 4 | 13 | 0,7 |


- Idoneo per tornio CNC.
- Suitable for N/C lathe.


3
Mod. G 430



| CODICE CODE | Affacco Connector | L | F | L1 | Peso (Kg) Weight (Kg) |
|----------------|-----------------------------------|-----|--------|----|--------------------------|
| 604300 | $\varnothing 18$ $\varnothing 16$ | 160 | Min.27 | 4 | 0,3 |





DENTE DRITTO / Straight Tooth DD

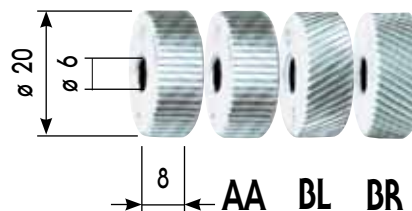
|  | CODICE / CODE | | Passo / Pitch |
|---|---------------|----|---------------|
| | 501920 | DD | 0,3 |
| | 501930 | DD | 0,5 |
| | 501940 | DD | 0,8 |
| | 501950 | DD | 1,00 |
| | 501960 | DD | 1,25 |
| | 501970 | DD | 1,50 |
| | 501980 | DD | 2,00 |


DENTE INCROCIATO / Crossed Tooth ID

|  | CODICE / CODE | | Passo / Pitch |
|---|---------------|----|---------------|
| | 501931 | ID | 0,5 |
| | 501941 | ID | 0,8 |
| | 501951 | ID | 1,00 |
| | 501961 | ID | 1,25 |
| | 501971 | ID | 1,50 |
| | 501981 | ID | 2,00 |


DENTE INCROCIATO / Crossed Tooth IS

|  | CODICE / CODE | | Passo / Pitch |
|---|---------------|----|---------------|
| | 501932 | IS | 0,5 |
| | 501942 | IS | 0,8 |
| | 501952 | IS | 1,00 |
| | 501962 | IS | 1,25 |
| | 501972 | IS | 1,50 |
| | 501982 | IS | 2,00 |



DENTE DRITTO / Straight Tooth AA

|  | CODICE / CODE | | Passo / Pitch |
|---|---------------|----|---------------|
| | 510300 | AA | 0,3 |
| | 510500 | AA | 0,5 |
| | 510700 | AA | 0,7 |
| | 510800 | AA | 0,8 |
| | 511000 | AA | 1,00 |
| | 511200 | AA | 1,20 |




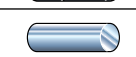



DENTE INCROCIATO / Crossed Tooth BL

|  | CODICE / CODE | | Passo / Pitch |
|---|---------------|----|---------------|
| | 510301 | BL | 0,3 |
| | 510501 | BL | 0,5 |
| | 510701 | BL | 0,7 |
| | 510801 | BL | 0,8 |
| | 511001 | BL | 1,00 |
| | 511201 | BL | 1,20 |

DENTE INCROCIATO / Crossed Tooth BR

|  | CODICE / CODE | | Passo / Pitch |
|---|---------------|----|---------------|
| | 510302 | BR | 0,3 |
| | 510502 | BR | 0,5 |
| | 510702 | BR | 0,7 |
| | 510802 | BR | 0,8 |
| | 511002 | BR | 1,00 |
| | 511202 | BR | 1,20 |

A richiesta si eseguono godroni speciali / Special knurls can be carried out on request.

| CODICE / CODE | | RICAMBI PER GODRONATORI / Spare Parts | | |
|---------------|---|---|-----------------|-----------|
| 401990 |  | Spine ricambio / Spare pins | Mod. 19 | ø 10 x 30 |
| 402000 |  | Spine ricambio con lubrificazione / Spare pins with lubrication | Mod. 19 | ø 10 x 30 |
| 402010 |  | Spine ricambio con lubrificazione / Spare pins with lubrication | Mod. G193- G293 | ø 10 x 24 |
| 604200 |  | Spina ricambio / Spare pin | Mod. G420 | ø 10 x 20 |
| 604250 |  | Spina ricambio / Spare pin | Mod. G425 | ø 10 x 25 |
| 603001 |  | Spina ricambio / Spare pin | Mod. G189- G300 | ø 6 x 15 |
| 6043001 |  | Spina ricambio / Spare pin | Mod. G430 | ø 6 x 20 |

Le bussole di riduzione con battuta consentono il fissaggio di barenì o punte con codolo cilindrico o a cono morse su portautensili di macchine a controllo numerico.

Sono disponibili 4 tipologie di fissaggio:

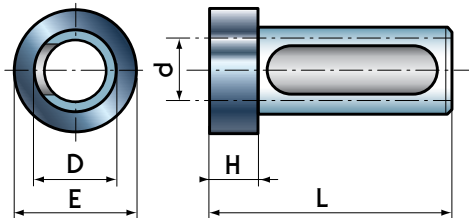
- 1- bussola cilindrica con fissaggio dell'utensile con grani
- 2- bussola cilindrica asolata a fissaggio diretto dell'utensile
- 3- bussola con attacco cono Morse
- 4- bussola cilindrica elastica

Per ogni tipo sono previste diverse grandezze formando così una gamma completa che può soddisfare le più svariate esigenze.

The reduction bushes with flanges allow boring bars or drills with a cylindrical shaft or clamp cone to be fixed to the toolholders of numerically controlled machine tools.

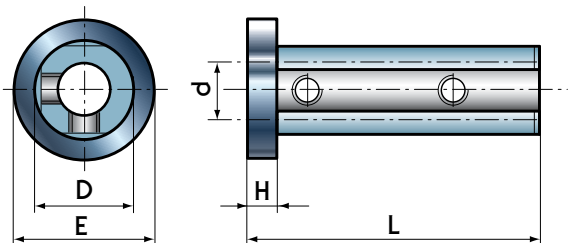
The following four different types of bushes are available:

- 1 - Cylindrical bush to be fixed to tool by dowels
- 2 - Slotted cylindrical bush to be directly fastened to tool
- 3 - Bush with taper
- 4 - Elastic cylindrical bush



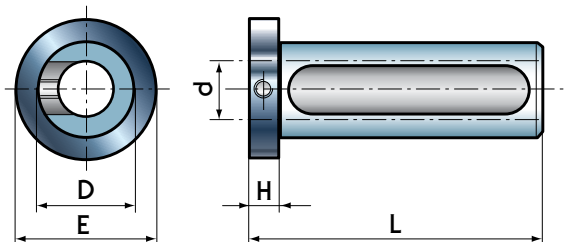
Mod. BCL 16

| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 001601 | 16 | 6 | 50 | 5 | 20 |
| 001602 | 16 | 8 | 50 | 5 | 20 |
| 001603 | 16 | 10 | 50 | 5 | 20 |
| 001604 | 16 | 12 | 50 | 5 | 20 |



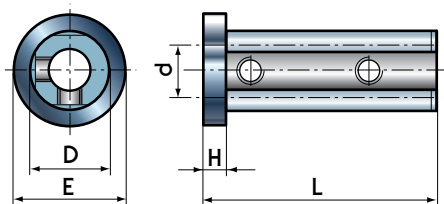
Mod. BCL 19,05 (3/4'')

| CODICE / CODE | D | d | L | H | E |
|---------------|-------|----|----|---|----|
| 001951 | 19,05 | 6 | 60 | 6 | 27 |
| 001952 | 19,05 | 8 | 60 | 6 | 27 |
| 001953 | 19,05 | 10 | 60 | 6 | 27 |

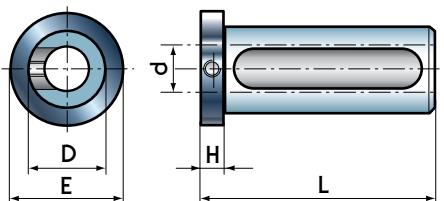


| CODICE / CODE | D | d | L | H | E |
|---------------|-------|----|----|----|----|
| 001954 | 19,05 | 12 | 60 | 10 | 27 |
| 001955 | 19,05 | 14 | 60 | 10 | 27 |
| 001956 | 19,05 | 16 | 60 | 10 | 27 |

Mod. BCL 20

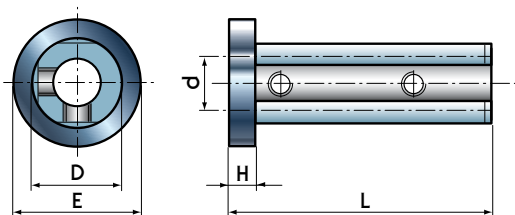


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 002001 | 20 | 6 | 60 | 6 | 27 |
| 002002 | 20 | 8 | 60 | 6 | 27 |
| 002003 | 20 | 10 | 60 | 6 | 27 |

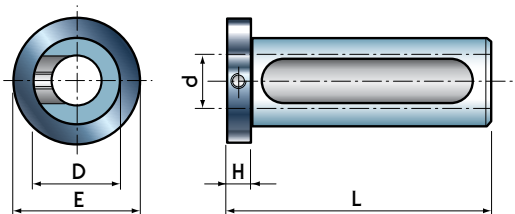


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|----|----|
| 002004 | 20 | 12 | 60 | 10 | 27 |
| 002005 | 20 | 14 | 60 | 10 | 27 |
| 002006 | 20 | 16 | 60 | 10 | 27 |

Mod. BCL 22

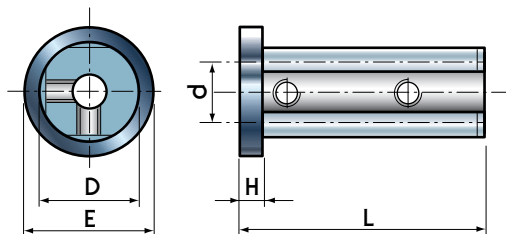


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 002201 | 22 | 6 | 60 | 6 | 28 |
| 002202 | 22 | 8 | 60 | 6 | 28 |
| 002203 | 22 | 10 | 60 | 6 | 28 |

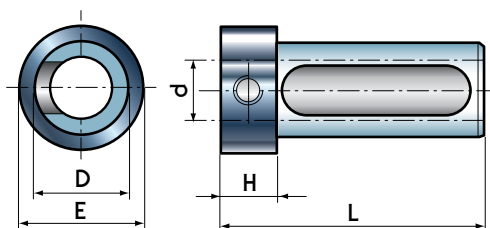


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 002204 | 22 | 12 | 60 | 6 | 28 |
| 002205 | 22 | 14 | 60 | 6 | 28 |
| 002206 | 22 | 16 | 60 | 6 | 28 |

Mod. BCL 25

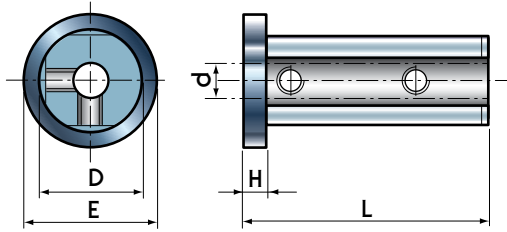


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 002501 | 25 | 6 | 60 | 6 | 33 |
| 002502 | 25 | 8 | 60 | 6 | 33 |
| 002503 | 25 | 10 | 60 | 6 | 33 |
| 002504 | 25 | 12 | 60 | 6 | 33 |

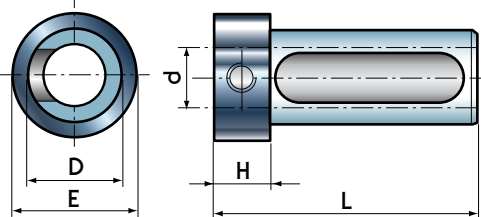


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|----|----|
| 002505 | 25 | 14 | 70 | 13 | 33 |
| 002506 | 25 | 16 | 70 | 13 | 33 |
| 002507 | 25 | 18 | 70 | 13 | 33 |
| 002508 | 25 | 20 | 70 | 13 | 33 |

Mod. BCL 25,4 (1")

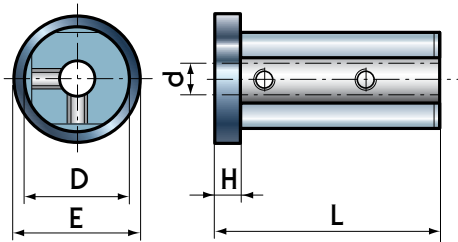


| CODICE / CODE | D | d | L | H | E |
|---------------|-------|----|----|---|----|
| 002541 | 25,40 | 6 | 60 | 6 | 33 |
| 002542 | 25,40 | 8 | 60 | 6 | 33 |
| 002543 | 25,40 | 10 | 60 | 6 | 33 |
| 002544 | 25,40 | 12 | 60 | 6 | 33 |

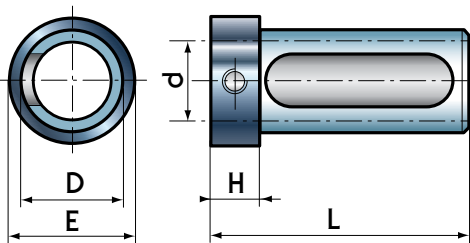


| CODICE / CODE | D | d | L | H | E |
|---------------|-------|----|----|----|----|
| 002545 | 25,40 | 14 | 70 | 13 | 33 |
| 002546 | 25,40 | 16 | 70 | 13 | 33 |
| 002547 | 25,40 | 18 | 70 | 13 | 33 |
| 002548 | 25,40 | 20 | 70 | 13 | 33 |

Mod. BCL 31,75 (1-1/4")

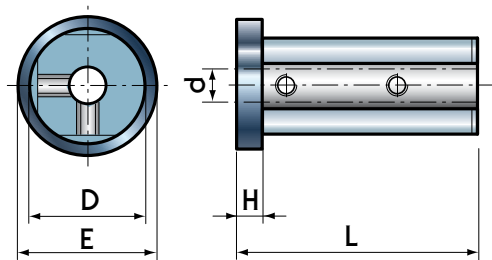


| CODICE / CODE | D | d | L | H | E |
|---------------|-------|----|----|---|----|
| 003171 | 31,75 | 6 | 60 | 6 | 39 |
| 003172 | 31,75 | 8 | 70 | 8 | 39 |
| 003173 | 31,75 | 10 | 70 | 8 | 39 |
| 003174 | 31,75 | 12 | 70 | 8 | 39 |
| 003175 | 31,75 | 14 | 70 | 8 | 39 |
| 003176 | 31,75 | 16 | 70 | 8 | 39 |
| 003177 | 31,75 | 18 | 70 | 8 | 39 |
| 003178 | 31,75 | 20 | 70 | 8 | 39 |

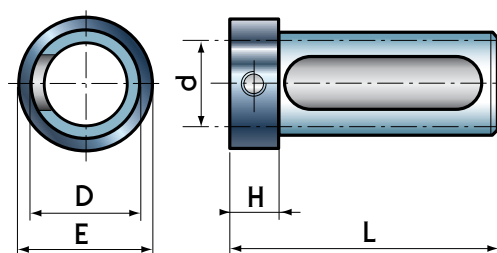


| CODICE / CODE | D | d | L | H | E |
|---------------|-------|----|----|----|----|
| 003179 | 31,75 | 25 | 80 | 15 | 39 |

Mod. BCL 32

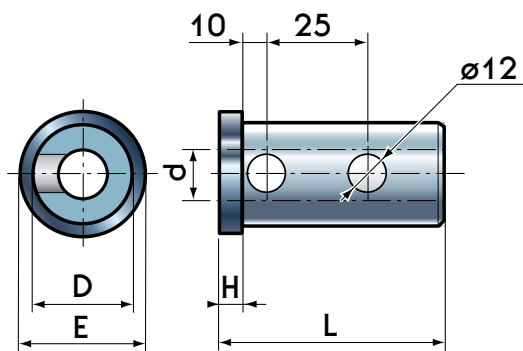


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 003201 | 32 | 6 | 60 | 6 | 39 |
| 003202 | 32 | 8 | 70 | 8 | 39 |
| 003203 | 32 | 10 | 70 | 8 | 39 |
| 003204 | 32 | 12 | 70 | 8 | 39 |
| 003205 | 32 | 14 | 70 | 8 | 39 |
| 003206 | 32 | 16 | 70 | 8 | 39 |
| 003207 | 32 | 18 | 70 | 8 | 39 |
| 003208 | 32 | 20 | 70 | 8 | 39 |



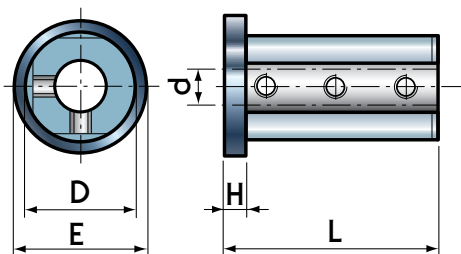
| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|----|----|
| 003209 | 32 | 25 | 80 | 15 | 39 |

Mod. BCL 35

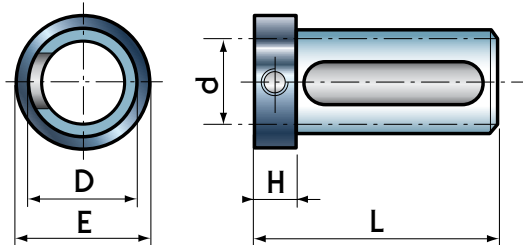


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 003501 | 35 | 8 | 80 | 8 | 44 |
| 003502 | 35 | 10 | 80 | 8 | 44 |
| 003503 | 35 | 12 | 80 | 8 | 44 |
| 003504 | 35 | 16 | 80 | 8 | 44 |
| 003505 | 35 | 20 | 80 | 8 | 44 |
| 003506 | 35 | 25 | 80 | 8 | 44 |
| 003507 | 35 | 32 | 80 | 8 | 44 |

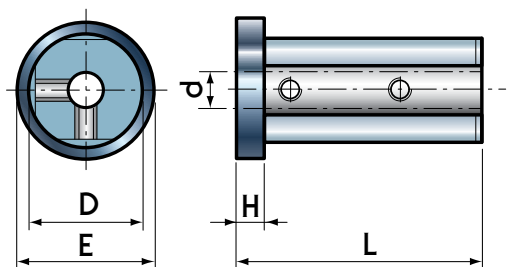
Mod. BCL 40



| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 004000 | 40 | 6 | 60 | 6 | 49 |
| 004001 | 40 | 8 | 80 | 8 | 49 |
| 004002 | 40 | 10 | 80 | 8 | 49 |
| 004003 | 40 | 12 | 80 | 8 | 49 |
| 004004 | 40 | 14 | 80 | 8 | 49 |
| 004005 | 40 | 16 | 80 | 8 | 49 |
| 004006 | 40 | 18 | 80 | 8 | 49 |
| 004007 | 40 | 20 | 80 | 8 | 49 |
| 004008 | 40 | 25 | 80 | 8 | 49 |

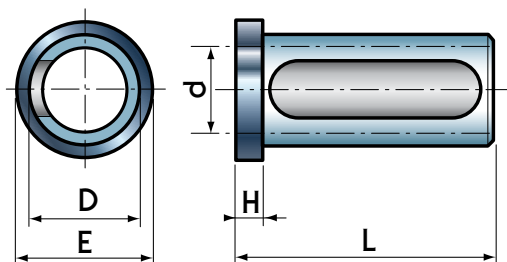


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|----|----|
| 004009 | 40 | 32 | 90 | 15 | 49 |



Mod. BCL 45

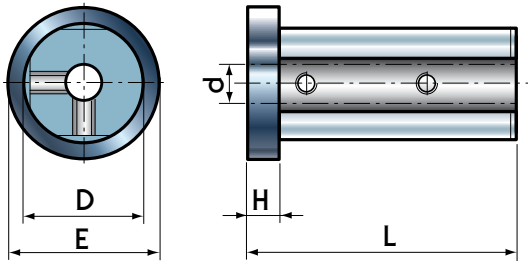
| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 004501 | 45 | 8 | 80 | 8 | 54 |
| 004502 | 45 | 10 | 80 | 8 | 54 |
| 004503 | 45 | 12 | 80 | 8 | 54 |
| 004504 | 45 | 16 | 80 | 8 | 54 |
| 004505 | 45 | 20 | 80 | 8 | 54 |
| 004506 | 45 | 25 | 80 | 8 | 54 |



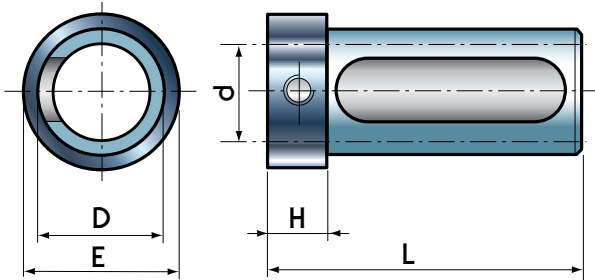
| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 004507 | 45 | 32 | 80 | 8 | 54 |
| 004508 | 45 | 40 | 80 | 8 | 54 |

4

Mod. BCL 50

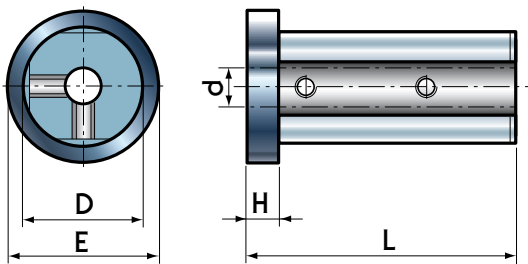


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 005000 | 50 | 8 | 90 | 8 | 59 |
| 005001 | 50 | 10 | 90 | 8 | 59 |
| 005002 | 50 | 12 | 90 | 8 | 59 |
| 005003 | 50 | 14 | 90 | 8 | 59 |
| 005004 | 50 | 16 | 90 | 8 | 59 |
| 005005 | 50 | 18 | 90 | 8 | 59 |
| 005006 | 50 | 20 | 90 | 8 | 59 |
| 005007 | 50 | 25 | 90 | 8 | 59 |
| 005008 | 50 | 32 | 90 | 8 | 59 |

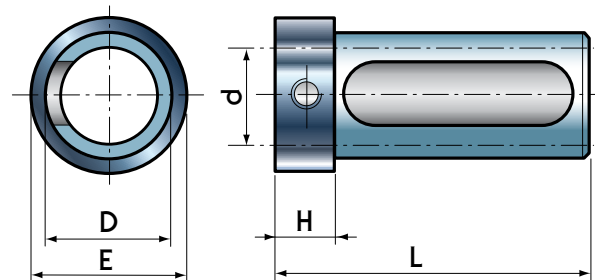


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|-----|----|----|
| 005009 | 50 | 40 | 100 | 15 | 59 |

Mod. BCL 60

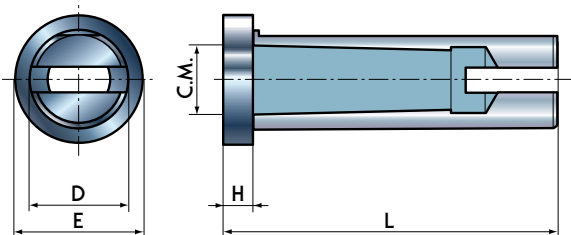


| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 006001 | 60 | 12 | 97 | 8 | 69 |
| 006002 | 60 | 16 | 97 | 8 | 69 |
| 006003 | 60 | 20 | 97 | 8 | 69 |
| 006004 | 60 | 25 | 97 | 8 | 69 |
| 006005 | 60 | 32 | 97 | 8 | 69 |



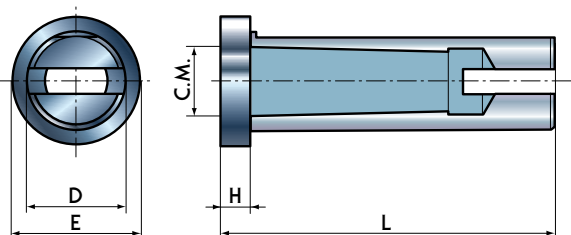
| CODICE / CODE | D | d | L | H | E |
|---------------|----|----|----|---|----|
| 006006 | 60 | 40 | 97 | 8 | 69 |
| 006007 | 60 | 50 | 97 | 8 | 69 |

Mod. BCC 25



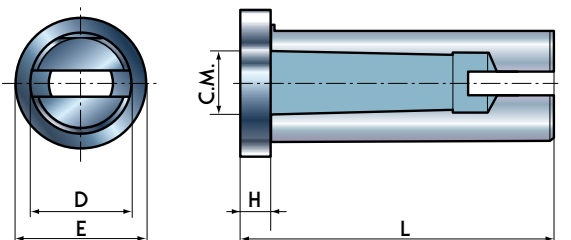
| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|----|---|----|
| 012501 | 25 | 1 | 65 | 6 | 33 |
| 022502 | 25 | 2 | 78 | 8 | 33 |

Mod. BCC 25,4 (1")



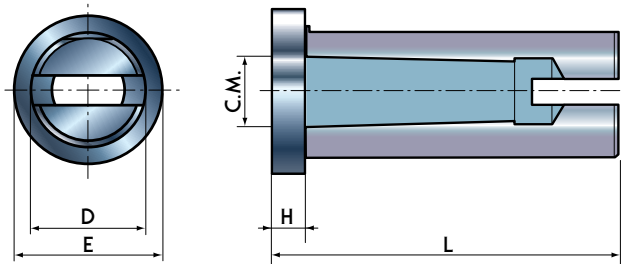
| CODICE / CODE | D | CM | L | H | E |
|---------------|-------|----|----|---|----|
| 012541 | 25,40 | 1 | 65 | 6 | 33 |
| 022542 | 25,40 | 2 | 78 | 8 | 33 |

Mod. BCC 31,75 (1-1/4")



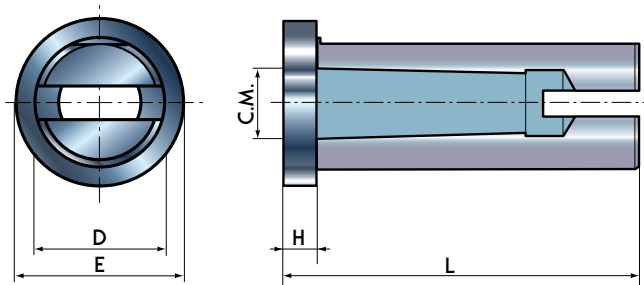
| CODICE / CODE | D | CM | L | H | E |
|---------------|-------|----|----|---|----|
| 013571 | 31,75 | 1 | 65 | 6 | 39 |
| 023572 | 31,75 | 2 | 78 | 8 | 39 |
| 033573 | 31,75 | 3 | 97 | 8 | 39 |

Mod. BCC 32



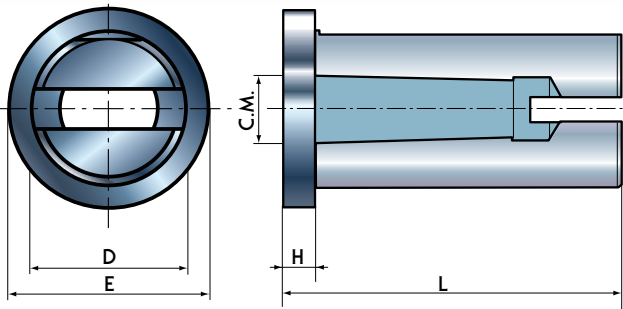
| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|----|---|----|
| 013201 | 32 | 1 | 65 | 6 | 39 |
| 023202 | 32 | 2 | 78 | 8 | 39 |
| 023203 | 32 | 3 | 97 | 8 | 39 |

Mod. BCC 35



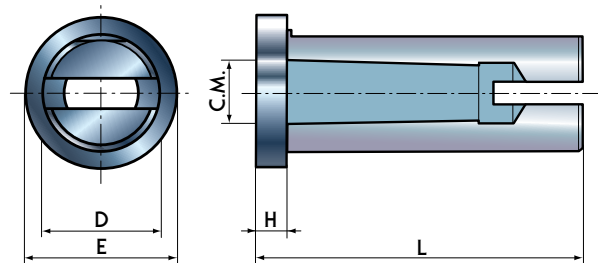
| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|----|---|----|
| 013501 | 35 | 1 | 65 | 6 | 44 |
| 023502 | 35 | 2 | 78 | 8 | 44 |
| 033503 | 35 | 3 | 97 | 8 | 44 |

Mod. BCC 40



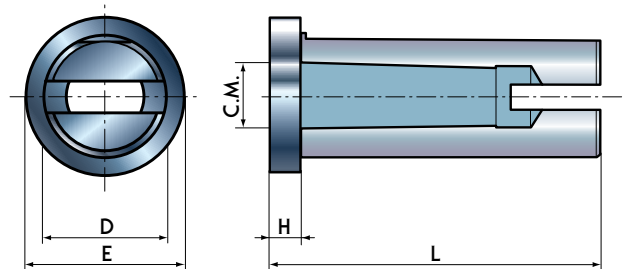
| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|-----|---|----|
| 014001 | 40 | 1 | 65 | 6 | 49 |
| 024002 | 40 | 2 | 78 | 8 | 49 |
| 034003 | 40 | 3 | 97 | 8 | 49 |
| 044004 | 40 | 4 | 120 | 8 | 49 |

Mod. BCC 45



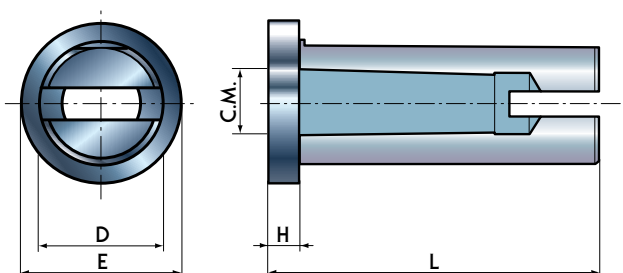
| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|-----|---|----|
| 024501 | 45 | 2 | 78 | 8 | 54 |
| 034502 | 45 | 3 | 97 | 8 | 54 |
| 044503 | 45 | 4 | 120 | 8 | 54 |

Mod. BCC 50

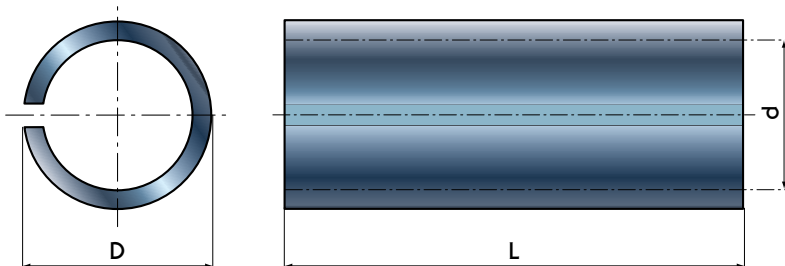


| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|-----|---|----|
| 025001 | 50 | 2 | 78 | 8 | 59 |
| 035002 | 50 | 3 | 97 | 8 | 59 |
| 045003 | 50 | 4 | 120 | 8 | 59 |

Mod. BCC 60



| CODICE / CODE | D | CM | L | H | E |
|---------------|----|----|-----|---|----|
| 016001 | 60 | 2 | 78 | 8 | 69 |
| 026002 | 60 | 3 | 97 | 8 | 69 |
| 036003 | 60 | 4 | 120 | 8 | 69 |
| 046004 | 60 | 5 | 155 | 8 | 69 |


4

Mod. BCE

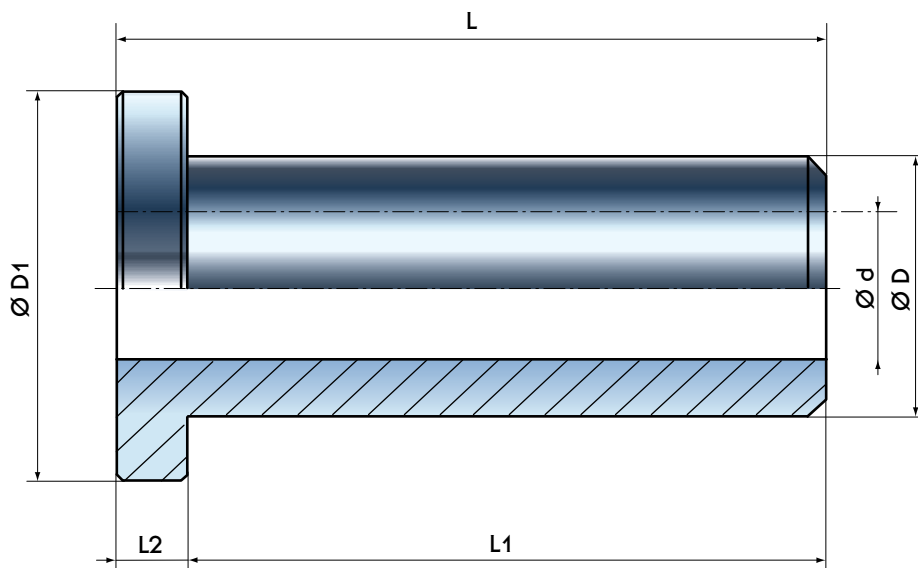
| CODICE / CODE | D | d | L |
|---------------|----|----|----|
| 001001 | 16 | 12 | 40 |
| 001002 | 20 | 16 | 50 |
| 001003 | 25 | 20 | 60 |
| 001004 | 32 | 25 | 70 |
| 001005 | 40 | 32 | 80 |
| 001006 | 50 | 40 | 90 |

Se siete interessati a Bussole speciali non comprese nel presente catalogo, inviateci questa pagina debitamente compilata: sarà nostra cura servirVi al meglio e con la massima tempestività.

If you are interested in special Bushes not included in this catalogue, fill out this page and send it to us: we shall do our best to provide you with prompt, efficient service.

Disegno tecnico da compilare per richiesta bussole speciali.

Technical drawing to be filled out for requesting special bushes.



4

| $\varnothing d$ | $\varnothing D$ | $\varnothing D1$ | L | L1 | L2 | Codice/Code | |
|-----------------|-----------------|------------------|---|----|----|-------------|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Mandriño cambio rapido a doppia compensazione.

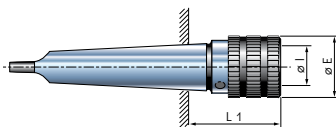
Quick-coupling spindle with double compensation.



Caratteristiche generali / Technical data

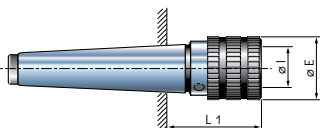
| TIPO BUSSOLA / BUSH TYPE | | 1 | 2 | 3 |
|--------------------------|-----------------|----|------|----|
| ø I (mm) | | 19 | 31 | 48 |
| ø E (mm) | | 37 | 53,5 | 79 |
| Compensazione | Trazione / Pull | 7 | 12 | 20 |
| Compensation | Press. / Push | 8 | 13 | 20 |

Mod. DIN 228A



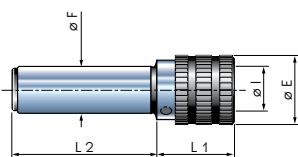
| Tipo bussola / Bush type | 1 | | 2 | | 3 | |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Per filettature / For threading | M 2 ÷ M 12 | | M 6 ÷ M 20 | | M 12 ÷ M 33 | |
| Cono Morse / Taper | CM 2 | CM 3 | CM 3 | CM 4 | CM 4 | CM 5 |
| L 1 (mm) | 37 | 37 | 72,5 | 74 | 107 | 107 |
| Peso / Weight (Kg) | 0,3 | 0,45 | 0,85 | 1,3 | 3,5 | 3,3 |
| CODICE / CODE | 91300 | 91400 | 92300 | 92400 | 93300 | 93400 |

Mod. DIN 228B



| Tipo bussola / Bush type | 1 | | 2 | | 3 | |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Per filettature / For threading | M 2 ÷ M 12 | | M 6 ÷ M 20 | | M 12 ÷ M 33 | |
| Cono Morse / Taper | CM 2 | CM 3 | CM 3 | CM 4 | CM 4 | CM 5 |
| L 1 (mm) | 37 | 37 | 72,5 | 74 | 107 | 107 |
| Peso / Weight (Kg) | 0,25 | 0,4 | 0,8 | 1,2 | 2,45 | 3,0 |
| CODICE / CODE | 91100 | 91200 | 92100 | 92200 | 93100 | 93200 |

Mod. DIN 1835



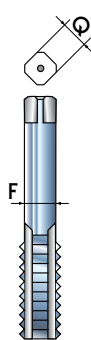
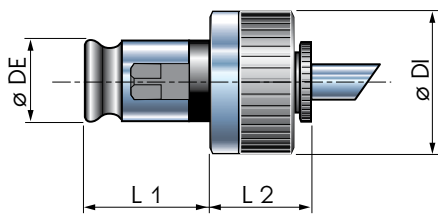
| Tipo bussola / Bush type | 1 | 2 |
|---------------------------------|--------------|--------------|
| Per filettature / For threading | M 2 ÷ M 12 | M 6 ÷ M 20 |
| ø F (mm) | 25 | 25 |
| L 1 (mm) | 41 | 67,5 |
| L 2 (mm) | 56 | 56 |
| Peso / Weight (Kg) | 0,45 | 0,75 |
| CODICE / CODE | 91500 | 91600 |

A richiesta si costruiscono attacchi speciali / Special connectors are manufactured on request.



Bussola a cambio rapido **CON FRIZIONE.**

Quick-coupling bush **WITH CLUTCH.**



| TIPO / TYPE | BCF 0 | BCF 1 | BCF 2 | BCF 3 |
|---|----------|----------|----------|-----------|
| DI | 23 | 32 | 50 | 72 |
| DE | 13 | 19 | 31 | 48 |
| L 1 | 19,5 | 21,5 | 35 | 55,5 |
| L 2 | 21 | 25 | 34 | 45 |
| Capacità di maschiatura Tapping capacity | M2 ÷ M10 | M2 ÷ M12 | M6 ÷ M20 | M12 ÷ M33 |
| Peso / Weight (Kg) | 0,06 | 0,15 | 0,5 | 1,45 |

| TIPO / TYPE | | BCF 0 | | | | | | | | | |
|----------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maschio / Tap | F | 2,8 | 2,8 | 3,15 | 3,5 | 4 | 4,5 | 5 | 6 | 6,3 | 7 |
| | Q | 2,1 | 2,24 | 2,5 | 2,7 | 3 | 3,4 | 4 | 4,9 | 5 | 5,5 |
| Filetto / Thread | | M 2 | M 2,5 | M 3-4 | M 3 | M 3,5 | M 4-6 | M 5 | M 6-8 | M 6-8 | M 10 |
| CODICE / CODE | | 90111 | 90122 | 90112 | 90113 | 90115 | 90117 | 90118 | 90119 | 90120 | 90121 |

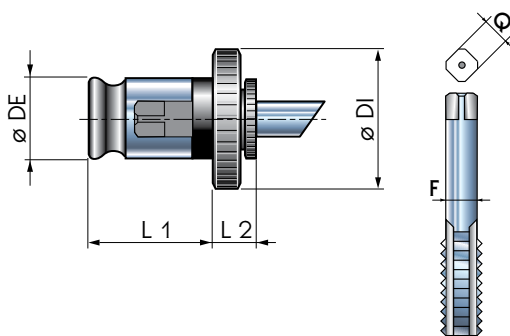
| TIPO / TYPE | | BCF 1 | | | | | | | | | | | | | | |
|--------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maschio / Tap | F | 2,8 | 3,15 | 3,5 | 4 | 4 | 4,5 | 5 | 6 | 6,3 | 7 | 8 | 9 | 10 | 10,5 | 11 |
| | Q | 2,1 | 2,5 | 2,7 | 3 | 3,2 | 3,4 | 4 | 4,9 | 5 | 5,5 | 6,2 | 7 | 8 | 8 | 9 |
| Filetto / Thread | | M 2 | M 3-4 | M 3 | M 3,5 | M 3 | M 4-6 | M 4-5 | M 5-6-8 | M 6 | M 7-10 | M 8-11 | M 9-12 | M 10 | - | - |
| CODICE CODE | | 91111 | 91112 | 91113 | 91115 | 91116 | 91117 | 91118 | 91119 | 91120 | 91121 | 91122 | 91123 | 91124 | 91127 | 91128 |

| TIPO / TYPE | | BCF 2 | | | | | | | | | | | | | | | | |
|----------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maschio / Tap | F | 6 | 6,3 | 7 | 8 | 9 | 10 | 10,5 | 11 | 11,2 | 12 | 12,5 | 14 | 14 | 16 | 16 | 18 | 18 |
| | Q | 4,9 | 5 | 5,5 | 6,2 | 7 | 8 | 8 | 9 | 9 | 9 | 10 | 11 | 11,2 | 12 | 12,5 | 14 | 14,5 |
| Filetto / Thread | | M6-7-8 | M6 | M7-10 | M8-11 | M9-12 | M10 | M14 | M14 | M14 | M16 | M16 | M18 | M18-20 | M20 | - | - | - |
| CODICE / CODE | | 92110 | 92111 | 92112 | 92113 | 92114 | 92115 | 92124 | 92116 | 92117 | 92118 | 92119 | 92120 | 92121 | 92122 | 92123 | 92125 | 92126 |

| TIPO / TYPE | | BCF 3 | | | | | | | | | | | | | | | |
|----------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maschio / Tap | F | 9 | 11 | 11,2 | 12 | 12,5 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22,4 | 25 | 28 |
| | Q | 7 | 9 | 9 | 9 | 10 | 11 | 11,2 | 12 | 12,5 | 14 | 14,5 | 16 | 18 | 18 | 20 | 22 |
| Filetto / Thread | | M12 | M14 | M14 | M16 | M16 | M18 | M18-20 | M20 | M22 | M 24 | M22-24 | M27-30 | M30 | M33 | M33 | - |
| CODICE / CODE | | 93124 | 93110 | 93111 | 93112 | 93113 | 93114 | 93115 | 93116 | 93117 | 93118 | 93119 | 93120 | 93121 | 93122 | 93123 | 93125 |

Bussola a cambio rapido **SENZA FRIZIONE**.

Quick-coupling bush **WITHOUT CLUTCH**.



| TIPO / TYPE | BN 0 | BN 1 | BN 2 | BN 3 |
|---|----------|----------|----------|-----------|
| DI | 22 | 30 | 46 | 68 |
| DE | 13 | 19 | 31 | 48 |
| L 1 | 19,5 | 21,5 | 35 | 55,5 |
| L 2 | 7 | 7 | 11 | 14 |
| Capacità di maschiatura Tapping capacity | M2 ÷ M10 | M2 ÷ M12 | M6 ÷ M20 | M12 ÷ M33 |
| Peso / Weight (Kg) | 0,01 | 0,07 | 0,25 | 0,75 |

| TIPO / TYPE | | BN 0 | | | | | | | | | | | |
|---------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maschio / Tap | F | 2,5 | 2,8 | 2,8 | 3,15 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,3 | 7 |
| | Q | 2,1 | 2,1 | 2,24 | 2,5 | 2,7 | 3 | 3,4 | 4 | 4,3 | 4,9 | 5 | 5,5 |
| CODICE / CODE | | 90210 | 90211 | 90222 | 90212 | 90213 | 90215 | 90217 | 90218 | 90223 | 90219 | 90220 | 90221 |

| TIPO / TYPE | | BN 1 | | | | | | | | | | | | | | | |
|---------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maschio / Tap | F | 2,8 | 3,15 | 3,5 | 4 | 4 | 4,5 | 5 | 5,5 | 6 | 6,3 | 7 | 8 | 9 | 10 | 10,5 | 11 |
| | Q | 2,1 | 2,5 | 2,7 | 3 | 3,2 | 3,4 | 4 | 4,3 | 4,9 | 5 | 5,5 | 6,2 | 7 | 8 | 8 | 9 |
| CODICE / CODE | | 91211 | 91212 | 91213 | 91215 | 91216 | 91217 | 91218 | 91225 | 91219 | 91220 | 91221 | 91222 | 91223 | 91224 | 91227 | 91228 |

| TIPO / TYPE | | BN 2 | | | | | | | | | | | | | | | | | |
|---------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Maschio / Tap | F | 6 | 6,3 | 7 | 8 | 9 | 10 | 10,5 | 11 | 11,2 | 12 | 12,5 | 14 | 14 | 16 | 16 | 18 | 18 | |
| | Q | 4,9 | 5 | 5,5 | 6,2 | 7 | 8 | 8 | 9 | 9 | 9 | 10 | 11 | 11,2 | 12 | 12,5 | 14 | 14,5 | |
| CODICE / CODE | | 92210 | 92211 | 92212 | 92213 | 92214 | 92215 | 92224 | 92216 | 92217 | 92218 | 92219 | 92220 | 92221 | 92222 | 92223 | 92225 | 92226 | |

| TIPO / TYPE | | BN 3 | | | | | | | | | | | | | | | |
|---------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Maschio / Tap | F | 11 | 11,2 | 12 | 12,5 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22,4 | 25 | 28 | |
| | Q | 9 | 9 | 9 | 10 | 11 | 11,2 | 12 | 12,5 | 14 | 14,5 | 16 | 18 | 18 | 20 | 22 | |
| CODICE / CODE | | 93210 | 93211 | 93212 | 93213 | 93214 | 93215 | 93216 | 93217 | 93218 | 93219 | 93220 | 93221 | 93222 | 93223 | 93226 | |

Mod. FIL MAS SF



I filettatori della serie FIL MAS SF sono perfettamente utilizzabili su torni di qualsiasi dimensione avendo gli accessori a scorrimento assiale su sfere; si ottiene una perfetta esecuzione escludendo imperfezioni causate da trascinamento forzato.

- FIL MAS SF è dotato di frizione.
- Gli accessori sono intercambiabili.

The thread cutting machines of series FIL MAS SF can be perfectly used on lathes of any dimension having the accessories for radial sliding on balls. A perfect working is obtained eliminating imperfections caused by forced pull.

- FIL MAS SF is equipped with clutch.
- The accessories are interchangeable.



NORMAL SET

| CONFEZIONI STANDARD / STANDARD PACKING | | | | | ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES | | | |
|--|----------------------|----------------------|---------------------------------|--------------------------------|---|---|---|-----------------------|
| Cono Cone | CODICE SF CODE SF | Capacità Capacity | L. filettatura Thread length | Escursione max. Max. stroke | Bussola porta filiere Die holder bush | Mandrini p. maschi Tap holder spindles | Confezione Packing | Peso / Weight (kg) |
| 2 | 301002 | M 4 ÷ M 22 | 210 mm | 48 mm | ø 20 301290 | ø 4 ÷ 10 301270 | cassetta in metallo metal box 301440 | 5,9 |
| 3 | 301013 | | | | ø 25 301300 | | | 6 |
| 4 | 301024 | | | | ø 30 301310 | | | 6,3 |
| 5 | 301035 | | | | ø 38 301320 | | | 7,1 |



EXTRA SET

| CONFEZIONI STANDARD / STANDARD PACKING | | | | | ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES | | | |
|--|----------------------|----------------------|---------------------------------|--------------------------------|---|---|---|-----------------------|
| Cono Cone | CODICE SF CODE SF | Capacità Capacity | L. filettatura Thread length | Escursione max. Max. stroke | Bussola porta filiere Die holder bush | Mandrini p. maschi Tap holder spindles | Confezione Packing | Peso / Weight (kg) |
| 2 | 301102 | M 4 ÷ M 22 | 210 mm | 48 mm | ø 20 301290 | ø 4 ÷ 10 301270 | cassetta in metallo metal box 301450 | 11,1 |
| 3 | 301113 | | | | ø 25 301300 | | | 11,2 |
| 4 | 301124 | | | | ø 30 301310 | codolo / tang B16 301251 | | 11,5 |
| 5 | 301135 | | | | ø 38 301320 | | | 12,3 |



Mod. FIL MAS SN

I filettatori della serie FIL MAS SN sono perfettamente utilizzabili su torni di qualsiasi dimensione avendo gli accessori a scorrimento assiale su sfere; si ottiene una perfetta esecuzione escludendo imperfezioni causate da trascinamento forzato.

- FIL MAS SN è sprovvisto di frizione.
- Gli accessori sono intercambiabili.

The thread cutting machines of series FIL MAS SN can be perfectly used on lathes of any dimension having the accessories for radial sliding on balls. A perfect working is obtained eliminating imperfections caused by forced pull.

- FIL MAS SN without clutch.
- The accessories are interchangeable.



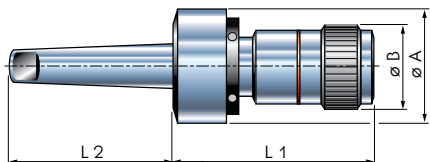
NORMAL SET

| CONFEZIONI STANDARD / STANDARD PACKING | | | | | ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES | | | |
|--|----------------------|----------------------|---------------------------------|--------------------------------|---|---|---|-----------------------|
| Cono Cone | CODICE SN CODE SN | Capacità Capacity | L. filettatura Thread length | Escursione max. Max. stroke | Bussola porta filiere Die holder bush | Mandrini p. maschi Tap holder spindles | Confezione Packing | Peso / Weight (kg) |
| 2 | 312002 | M 4 ÷ M 22 | 145 mm | 48 mm | ø 20 301290 | ø 4 ÷ 10 301270 | cassetta in metallo metal box 301440 | 4,3 |
| 3 | 312013 | | | | ø 25 301300 | | | 4,5 |
| 4 | 312024 | | | | ø 30 301310 | | | 4,8 |
| 5 | 312035 | | | | ø 38 301320 | | | 5,5 |

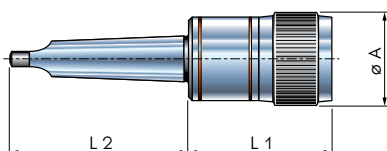


EXTRA SET

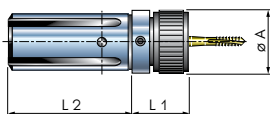
| CONFEZIONI STANDARD / STANDARD PACKING | | | | | ACCESSORI IN DOTAZIONE / STANDARD ACCESSORIES | | | |
|--|----------------------|----------------------|---------------------------------|--------------------------------|---|---|---|-----------------------|
| Cono Cone | CODICE SF CODE SF | Capacità Capacity | L. filettatura Thread length | Escursione max. Max. stroke | Bussola porta filiere Die holder bush | Mandrini p. maschi Tap holder spindles | Confezione Packing | Peso / Weight (kg) |
| 2 | 312102 | M 4 ÷ M 22 | 145 mm | 48 mm | ø 20 301290 | ø 4 ÷ 10 301270 | cassetta in metallo metal box 301450 | 9,5 |
| 3 | 312113 | | | | ø 25 301300 | | | ø 10 ÷ 18 301280 |
| 4 | 312124 | | | | ø 30 301310 | codolo / tang B16 301251 | | 10 |
| 5 | 312135 | | | | ø 38 301320 | | | 11 |

Mod. FIL MAS SF


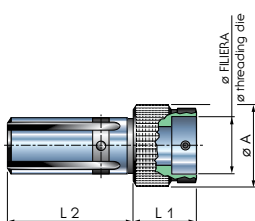
| Cono Morse / Taper | CODICE / CODE | L 1 | L 2 | ø A | ø B | Peso / Weight (kg) |
|--------------------|----------------------|-----|-----|-----|-----|--------------------|
| CM2 | 301202 | 160 | 80 | 82 | 51 | 2,3 |
| CM3 | 301213 | 160 | 99 | 82 | 51 | 2,4 |
| CM4 | 301224 | 160 | 124 | 82 | 51 | 2,7 |
| CM5 | 301235 | 160 | 156 | 82 | 51 | 3,5 |

Mod. FIL MAS SN


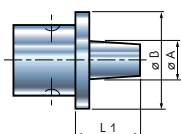
| Cono Morse / Taper | CODICE / CODE | L 1 | L 2 | ø A | Peso / Weight (kg) |
|--------------------|----------------------|-----|-----|-----|--------------------|
| CM2 | 312202 | 75 | 80 | 52 | 0,7 |
| CM3 | 312213 | 75 | 99 | 52 | 0,85 |
| CM4 | 312224 | 75 | 124 | 52 | 1,15 |
| CM5 | 312235 | 75 | 156 | 52 | 1,85 |


Mandrini prendi maschi / Top receiver spindles

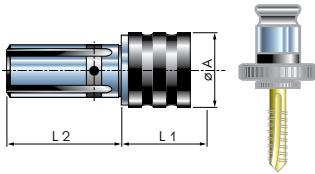
| | CODICE / CODE | L 1 | L 2 | ø A | Peso / Weight (kg) |
|-------------|----------------------|-----|-----|-----|--------------------|
| ø 4 ÷ ø 10 | 301270 | 31 | 65 | 40 | 0,4 |
| ø 10 ÷ ø 18 | 301280 | 31 | 65 | 45 | 0,45 |


Bussole portafiliera / Die holder bushes

| ø filiera / ø threading die | CODICE / CODE | L 1 | L 2 | ø A | Peso / Weight (kg) |
|-----------------------------|----------------------|-----|-----|-----|--------------------|
| ø 20 x 7 | 301290 | 31 | 65 | 45 | 0,45 |
| ø 25 x 9 | 301300 | 31 | 65 | 45 | 0,45 |
| ø 30 x 11 | 301310 | 31 | 65 | 45 | 0,4 |
| ø 38 x 14 | 301320 | 31 | 65 | 50 | 0,4 |
| ø 45 x 18 | 301330 | 31 | 65 | 60 | 0,5 |
| ø 55 x 22 | 301340 | 31 | 65 | 70 | 0,55 |
| ø 65 x 18 | 301350 | 31 | 65 | 80 | 0,65 |
| ø 65 x 25 | 301351 | 70 | 65 | 80 | 1,4 |

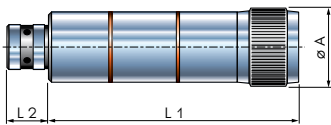

Codolo porta mandrino / Spindle holder tang

| Attacco / Connector | CODICE / CODE | L 1 | L 2 | ø A | Peso / Weight (kg) |
|---------------------|----------------------|-----|-----|-----|--------------------|
| B 16 | 301251 | 16 | 40 | 33 | 0,3 |
| B 18 | 301260 | 18 | 40 | 38 | 0,35 |


Accessorio prendi bussole per BN - BCF / Bush receiver accessory for BN - BCF

| Per bussole / For bushes | CODICE / CODE | L 1 | L 2 | ø A | Peso / Weight (kg) |
|--------------------------|---------------|-----|-----|-----|--------------------|
| Tipo 1 / Type 1 - ø 19 | 301421 | 37 | 65 | 34 | 0,35 |
| Tipo 2 / Type 2 - ø 31 | 301431 | 46 | 65 | 47 | 0,4 |

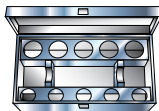
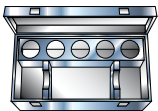
Per le bussole per BN - BCF vedi pag. 69-70. / For bushes for BN - BCF see pages 69-70.


Prolunga per filettature lunghe / Extension for long threads

| | CODICE / CODE | L 1 | L 2 | ø A | Peso / Weight (kg) |
|----------------------|---------------|-----|-----|-----|--------------------|
| Prolunga / Extension | 301550 | 167 | 34 | 52 | 1,75 |

Lunghezza di filettatura fino a M18 --> L310 oltre M18 --> L145

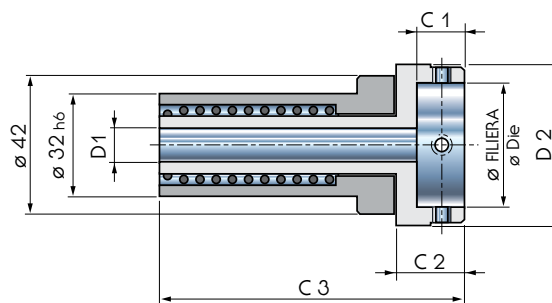
Thread length up to M18 --> L310 over M18 --> L145

Mod. 144
Mod. 145

Cassette metallo per FIL MAS SF - SN / Metal boxes for FIL MAS SF - SN

| | CODICE / CODE | MOD. | Peso / Weight (kg) |
|--|---------------|------|--------------------|
| Tipo normale 5 fori / Standard model 5 holes | 301440 | 144 | 1,5 |
| Tipo extra 10 fori / Extra model 10 holes | 301450 | 145 | 2,5 |

PORTAFILIERE PER CNC CON COMPENSAZIONE

Die holders for CNC with compensation

Mod. PFC


| BUSSOLE PORTAFILIERA CWC Die holder bushes CWC | CODICE CODE | C 1 | C 2 | C 3 | D 1 | D 2 | Peso / Weight (Kg) |
|---|----------------|-----|-----|-----|-----|-----|-----------------------|
| ø 16 | 303160 | 5 | 16 | 88 | 11 | 28 | 0,6 |
| ø 20 | 303200 | 7 | 16 | 88 | 11 | 32 | 0,6 |
| ø 25 | 303250 | 9 | 16 | 88 | 11 | 37 | 0,6 |
| ø 30 | 303300 | 11 | 16 | 88 | 11 | 42 | 0,7 |
| ø 38 | 303380 | 14 | 20 | 92 | 13 | 49 | 0,7 |

Compensazione in trazione / Compensation in pull mm 20

CONTROPUNTA CON TESTA ROTANTE
Live centre with rotating head



TRASCINATORE CON DENTI INTERCAMBIABILI
PER LAVORAZIONE TUBI
Driving centre with
interchangeable
jaws for working pipe



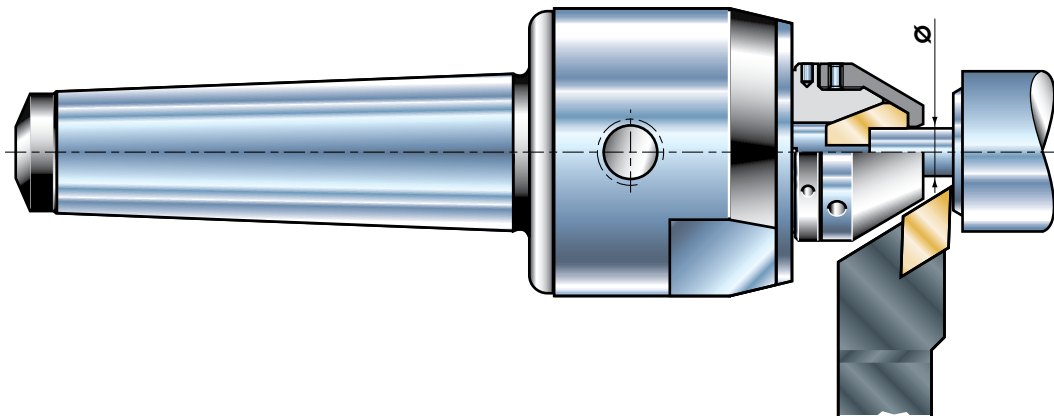
CONTROPUNTA ROTANTE PER PICCOLO DIAMETRO
Live centre for small diameter





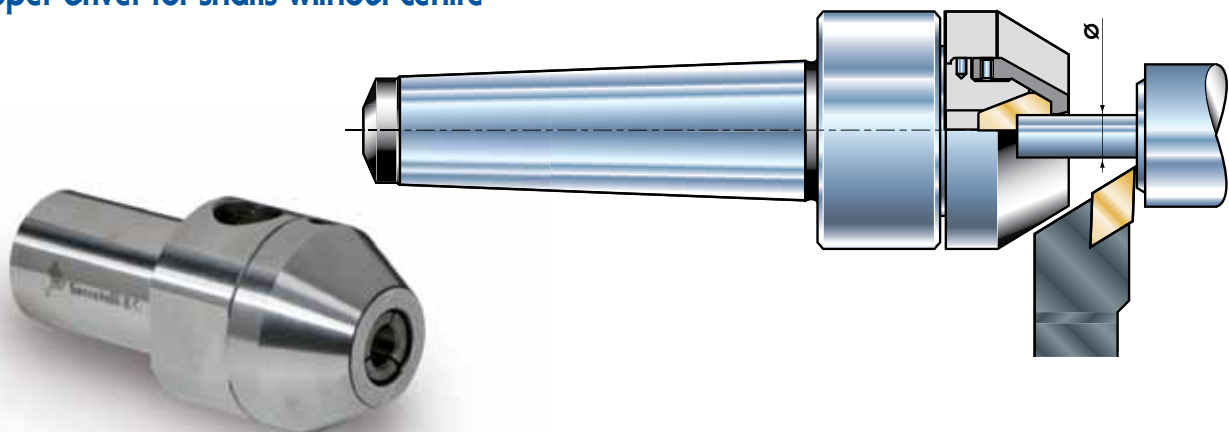
CONTROPUNTA ROTANTE A PINZA PER ALBERI SENZA CENTRO

Gripper live centre for shafts without centre



TRASCINATORE A PINZA PER ALBERI SENZA CENTRO

Gripper driver for shafts without centre



CONTROPUNTA ROTANTE PER RETTIFICA CON CHIAVETTA DI TRASCINAMENTO PER MOZZI

Live centre for rectification with driving key for hubs





CONTROPUNTA FISSA SPECIALE

Special dead centre



CONTROPUNTA ROTANTE SPECIALE PER RETTIFICA

Special live centre for grinding



CONTROPUNTA ROTANTE SPECIALE

Special live centre





CONTROPUNTA FISSA PER RETTIFICA
Dead centre for grinding



TRASCINATORE CON ARTIGLI PNEUMATICI
Driving centre with pneumatic jaws



TRASCINATORE SPECIALE CON ARTIGLI MORBIDI
Driving centre with soft jaws



TRASCINATORE PER DENTATURA

Face drivers for gear cutting



FLANGIA PER CONTROPUNTA ROTANTE CON REGOLAZIONE ECCENTRICITÀ

Flange for live centre with correction of eccentricity



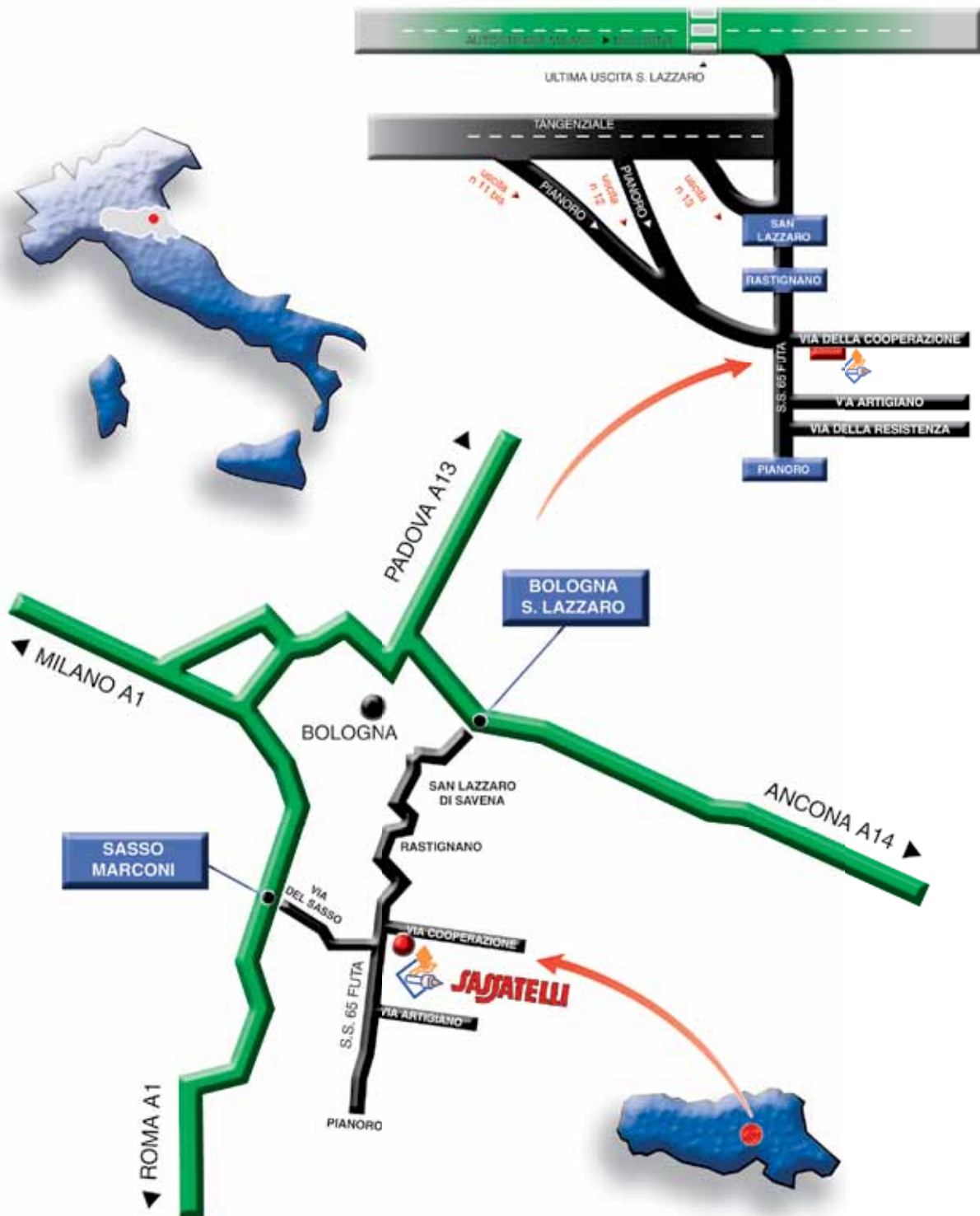
CONTROPUNTA ROTANTE ATTACCO FLANGIATO

Live centre with flanged attack





A large rectangular area with a blue border, containing 25 horizontal blue lines for writing notes.



SASSATELLI

via della Cooperazione, 12 • 40065 Pianoro - Bologna (Italy)
 Telefono +39 / 051 77.66.52 • Fax +39 / 051 77.57.80
 commerciale@sassatelli.com • www.sassatelli.com





SASSATELLI

Via della Cooperazione, 12 - 40065 Pianoro - Bologna (Italy)
Telefono +39 / 051 77.66.52 Fax +39 / 051 77.57.80
commerciale@sassatelli.com www.sassatelli.com



 Regione Emilia-Romagna