



CHIA-MO

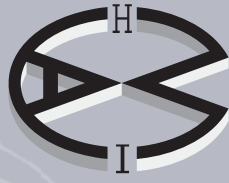
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2011





CHIA-MO

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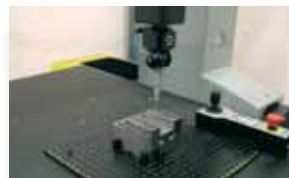
AZIENDA

CHIA-MO dal 1972 progetta e costruisce accessori di precisione per macchine utensili. L'esperienza acquisita negli anni e l'utilizzo di tecnologie all'avanguardia hanno consentito lo sviluppo di un programma di produzione sempre più ampio e qualitativo per soddisfare le esigenze della sua vasta clientela. L'azienda svolge tutte le fasi di progettazione, lavorazione e collaudo al proprio interno garantendo così una elevata qualità e precisione sui suoi prodotti.



COMPANY

Since 1972, CHIA-MO has been designing and manufacturing precision accessories for machine tools. Our experience acquired long-term, and use of next generation technologies have enabled us to develop an ever broader, better quality production plan to satisfy the needs of our many customers. The company performs all design, work and final-test stages in-house, thus ensuring high quality and high precision products.





QUALITÀ

Nel 2003 la CHIA-MO ha ottenuto la certificazione UNI EN ISO 9001:2000. Tutto il processo produttivo viene accuratamente controllato a partire da materiali e trattamenti termici certificati e collaudati fino all'utilizzo di strumenti di misura certificati "SIT" per il controllo qualità finale.



EVASIONE ORDINI

95% dei prodotti standard sono disponibili a magazzino. Possibilità di spedire il materiale il giorno stesso della ricezione dell'ordine.

AMBIENTE

L'ultima importante scelta aziendale riguarda la salvaguardia dell'ambiente. Il nostro stabilimento è stato dotato di un impianto fotovoltaico che copre il 50% del fabbisogno energetico aziendale.



QUALITY

In 2003, CHIA-MO obtained the UNI EN ISO 9001:2000 certification. The entire production process is accurately controlled, starting off from certified and tested materials and heat treatments, and using "SIT" certified measuring instruments for the final quality control.



ORDER FILLING

95% of standard products are available from our warehouse. The material can be shipped on the same day an order is received.

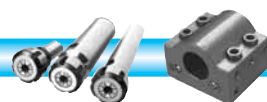
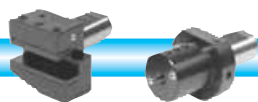
ENVIRONMENT

The last important decision of the company concerns the environmental protection. Our factory is equipped with a photovoltaic system that covers 50% of the company's energy needs.



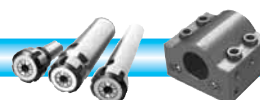
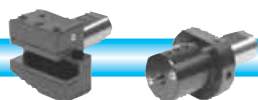


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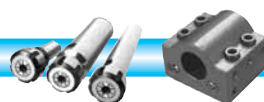
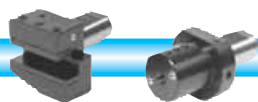


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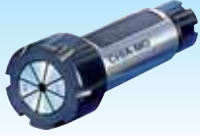


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BOLOGNA - ITALY

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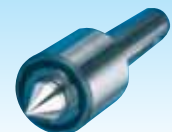
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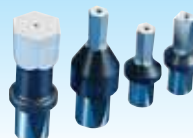
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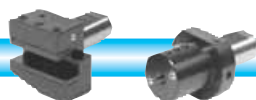
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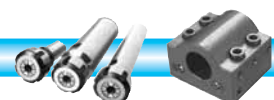
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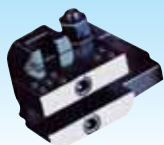
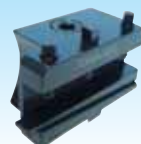
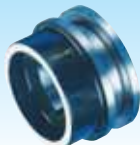
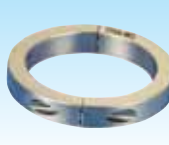
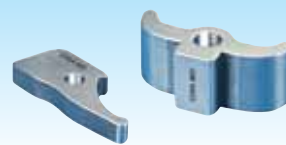
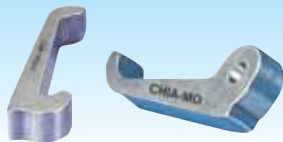
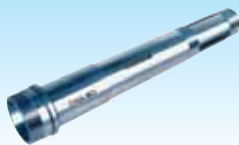
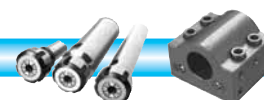
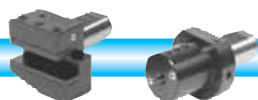
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La Chia-mo si riserva il diritto di apportare modifiche alla costruzione e ai dati tecnici della propria produzione senza alcun preavviso. Pertanto i dati riportati nel presente catalogo si intendono forniti a semplice titolo indicativo e non impegnativo.

Chia-mo reserves the right to modify its product design and technical specifications without notice. Drawings and data included in the catalogue are not binding and should be used as a reference only.





PINZE DI SERRAGGIO
CLAMPING COLLETS

PAG. 1



PINZE PER TORNI MONOMANDRINO E PLURIMANDRINO
COLLETS FOR SINGLE-SPINDLE / MULTISPINDLE LATHES

PAG. 2-21



MORSE PNEUMATICHE
PNEUMATIC CHUCKING DEVICES

PAG. 22-24



PORTA UTENSILI PER TORNI CNC
CNC LATHE TOOLHOLDERS

PAG. 25-42



PORTA UTENSILI PER TORNI CNC
CNC LATHE TOOLHOLDERS

PAG. 25-42



BUSOLE PORTA BARENO PER TORNI
CNC BORING BAR HOLDING BUSHINGS

PAG. 43-49



PORTA UTENSILI PER TORNI DIN 69880 VDI 3425
TOOLHOLDERS DIN 69880 VDI 3425

PAG. 50-65



PORTA UTENSILI PER TORRETTA
TURRET TOOL HOLDERS

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PORTA ALESATORI FLOTTANTI
FLOATING REAMER HOLDERS



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DISPOSITIVI FERMO BARRA ROTANTI PER TORNI
REVOLVING BAR STOPS FOR LATHES



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BROCCIATORI
BROACH TOOLHOLDERS



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PORTA UTENSILI PER TORNI AUTOMATICI
AUTOMATIC LATHE TOOLHOLDERS



PAG. 112-127

MANDRINI PORTA PINZA ER DIN 6499
ER DIN 6499 COLLET TYPE DRILL HOLDERS



PAG. 80-91

CONTROPUNTE ROTANTI
LIVE CENTRES FOR LATHES



PAG. 93-96

PORTA MASCHI E PORTA FILIERE
TAP AND DIE HOLDERS



PAG. 102-111

RICAMBI PER TORNI AUTOMATICI
AUTOMATIC LATHE SPARE PARTS



PAG. 128-180



FORMA DEGLI ALESAGGI

CLAMPING FORM



(L) LISCIO
SMOOTH



(Z) ZIGRINATO
SERRATED



(Q) QUADRATO
SQUARE



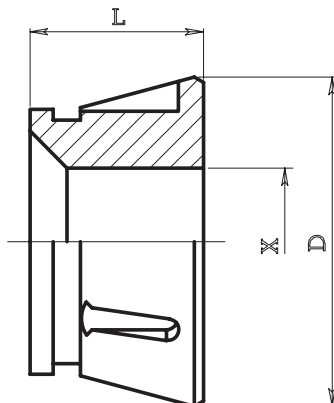
(E) ESAGONALE
HEXAGONAL





PINZE DI SERRAGGIO Tipo 015

CLAMPING COLLETS



CARATTERISTICHE:

- Semplifica e rende più rapido il cambio pinza
- Aumenta la rigidità del bloccaggio del pezzo da lavorare

CHARACTERISTICS:

- Simplified and quicker collet changing
- Increased rigidity in blocking the piece to be machined

| Code | Tippe | | | max bore | | |
|-------------------|-----------------|-------|----|---------------|----|----|
| ART. | Passaggio barra | D | L | alesaggio max | | |
| | | | | ○ | ⬡ | □ |
| 015.065 (L) | 65 | 99.5 | 53 | 65 | — | — |
| 015.065 (Z-E-Q) | 65 | 99.5 | 58 | 65 | 56 | 46 |
| 015.080 (Z-L-E-Q) | 80 | 114.5 | 53 | 80 | 68 | 56 |

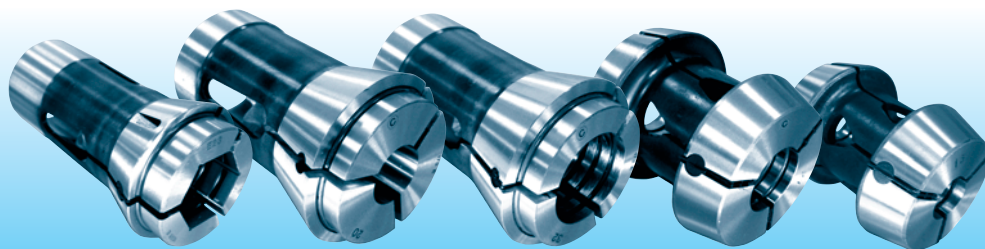
ATTREZZATURA PNEUMATICA PER CAMBIO PINZA

PNEUMATIC COLLETS CHANGE EQUIPMENT



| Code | Collet Tipe | Collet Code |
|-----------|-----------------------|-------------------|
| ART. | Passaggio barra Pinza | Art. pinza |
| 015.065CH | 65 | 015.065 (Z-L-E-Q) |
| 015.080CH | 80 | 015.080 (Z-L-E-Q) |

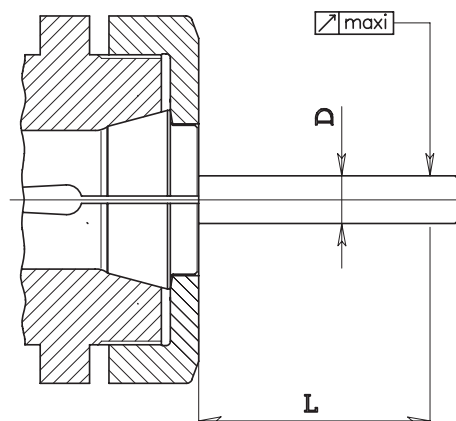




PROVA DI CONCENTRICITÀ

ROTATIONARY CONCENTRICITY TEST

| Alesaggio (Bores) | | L | limite max di concentricità (max concentricity limit) |
|-------------------|-----|-----|---|
| 0,5 | 1 | 3 | 0,015 |
| 1 | 1,6 | 6 | 0,02 |
| 1,6 | 3 | 10 | 0,02 |
| 3 | 6 | 16 | 0,02 |
| 6 | 10 | 25 | 0,02 |
| 10 | 18 | 40 | 0,03 |
| 18 | 24 | 50 | 0,03 |
| 24 | 30 | 60 | 0,03 |
| 30 | 50 | 80 | 0,04 |
| 50 | | 100 | 0,04 |



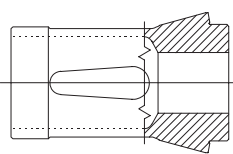
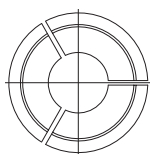
Le pinze Chia-mo sono costruite con acciaio certificato altamente legato.

Tutto il ciclo produttivo viene svolto nella nostra officina con macchine utensili di alta precisione in accordo alla normativa DIN 6343 ed è rigorosamente controllato.

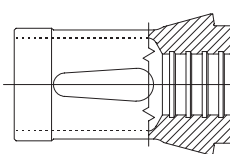
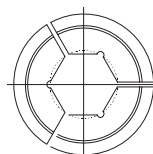
Chia-mo collets are produced with certified top quality steel. All production cycle is carried out in our factory with high precision machines according to DIN 6343 specification and is carefully controlled.

FORMA DEGLI ALESAGGI

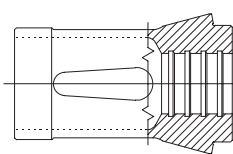
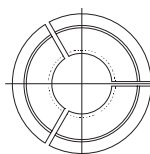
CLAMPING FORM



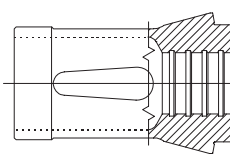
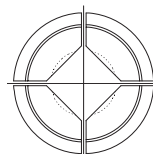
L
LISCIO
SMOOTH



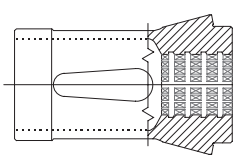
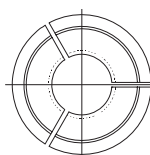
E
ESAGONALE
HEXAGONAL



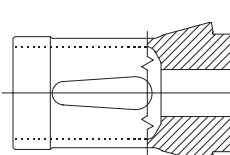
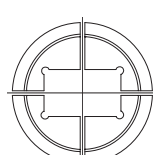
R
RIGATO
GROOVED



Q
QUADRATO
SQUARE



Z
ZIGRINATO*
SERRATED*
* su richiesta
* on request



61
62
63
64
65

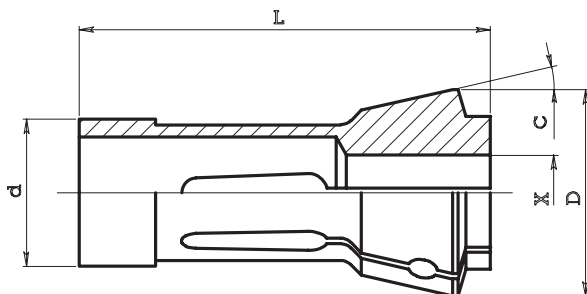




PINZE SPINTE Tipo 010

DIN 6343

COLLETS

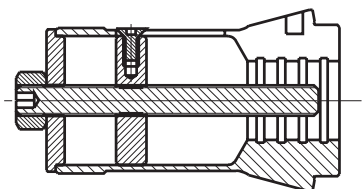


| Code | | | | | | max bore | | |
|---------|-------|----|------|----|-----|---------------|----|----|
| ART. | | d | D | L | C | alesaggio max | | |
| | | | | | | ○ | ⬡ | □ |
| 010.006 | 101 E | 8 | 12 | 42 | 16° | 6 | — | — |
| 010.013 | 110 E | 10 | 16 | 43 | 15° | 7 | — | — |
| 010.014 | 109 E | 10 | 16 | 47 | 20° | 7 | 6 | 5 |
| 010.019 | | 12 | 17 | 27 | 20° | 8.5 | — | — |
| 010.025 | 117 E | 14 | 18 | 46 | 13° | 10 | 8 | 7 |
| 010.027 | | 12 | 18 | 64 | 16° | 10 | 8 | 7 |
| 010.028 | 116 E | 13 | 19 | 64 | 16° | 10 | 8 | 7 |
| 010.029 | 120 E | 15 | 21 | 64 | 16° | 12 | 10 | 9 |
| 010.030 | 121 E | 15 | 22 | 47 | 20° | 10 | 9 | 7 |
| 010.032 | 123 E | 16 | 22 | 55 | 15° | 12 | 10 | 7 |
| 010.036 | | 18 | 23 | 52 | | 13 | — | — |
| 010.038 | 127 E | 18 | 25 | 67 | 15° | 12 | 10 | 9 |
| 010.042 | 136 E | 20 | 26 | 54 | 15° | 16 | 12 | 10 |
| 010.043 | 1299E | 20 | 27.5 | 60 | 15° | 17 | 15 | 12 |
| 010.045 | 138 E | 20 | 28 | 67 | 16° | 16 | 12 | 10 |
| 010.049 | 139 E | 22 | 28 | 67 | 13° | 16 | 12 | 10 |
| 010.051 | 140 E | 22 | 30 | 55 | 15° | 18 | 15 | 12 |
| 010.053 | 1323E | 22 | 32 | 66 | 16° | 18 | 15 | 12 |
| 010.060 | 143 E | 25 | 31 | 54 | 15° | 21 | 18 | 15 |
| 010.063 | 144 E | 25 | 34 | 65 | 15° | 20 | 17 | 14 |
| 010.064 | 145 E | 25 | 35 | 77 | 16° | 20 | 17 | 14 |

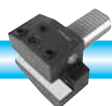
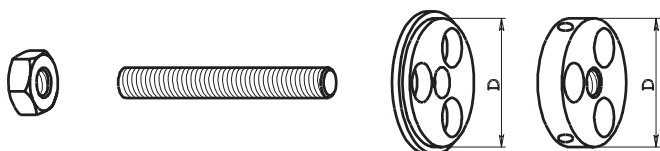
| Code | | | | | | max bore | | |
|---------|-------|-----|------|------|-----|---------------|----|----|
| ART. | | d | D | L | C | alesaggio max | | |
| | | | | | | ○ | ⬡ | □ |
| 010.065 | 146 E | 26 | 32 | 67 | 13° | 20 | 17 | 14 |
| 010.067 | 147 E | 27 | 38 | 72.7 | 15° | 23 | 19 | 16 |
| 010.070 | 148 E | 28 | 38 | 70 | 15° | 23 | 20 | 16 |
| 010.074 | 1446E | 30 | 38 | 65 | 15° | 25 | 22 | 18 |
| 010.078 | 157 E | 30 | 42 | 80 | 16° | 25 | 22 | 18 |
| 010.084 | 161 E | 32 | 45 | 75 | 15° | 26 | 22 | 18 |
| 010.086 | 1473E | 32 | 40 | 65 | 15° | 26 | 22 | 18 |
| 010.092 | 162 E | 35 | 43 | 70 | 15° | 25 | 22 | 18 |
| 010.093 | 163 E | 35 | 48 | 80 | 15° | 30 | 26 | 22 |
| 010.101 | 1536E | 37 | 47 | 92 | 16° | 32 | 27 | 22 |
| 010.102 | | 38 | 50.3 | 86 | 15° | 32 | 29 | 22 |
| 010.111 | 171 E | 42 | 55 | 94 | 15° | 36 | 32 | 25 |
| 010.115 | | 44 | 51.7 | 92 | 16° | 37 | 32 | 26 |
| 010.117 | 173 E | 48 | 60 | 94 | 15° | 42 | 36 | 30 |
| 010.121 | | 52 | 63 | 92 | 15° | 46 | 38 | 32 |
| 010.122 | | 52 | 65 | 94 | 15° | 46 | 38 | 32 |
| 010.127 | 177 E | 58 | 70 | 94 | 15° | 52 | 45 | 36 |
| 010.130 | | 60 | 72 | 102 | 15° | 54 | 40 | 32 |
| 010.133 | 185 E | 66 | 84 | 110 | 15° | 60 | 52 | 42 |
| 010.140 | | 80 | 98 | 115 | 15° | 70 | 60 | 50 |
| 010.147 | | 95 | 117 | 125 | 15° | 80 | 68 | 56 |
| 010.150 | | 115 | 135 | 140 | 15° | 100 | 86 | 80 |

FERMI PER PINZE Tipo 011

COLLET STOPPERS



| Code | For Collets | |
|---------|-------------|------|
| ART. | per pinza | D |
| 011.051 | 010.051 | 17 |
| 011.084 | 010.084 | 26 |
| 011.117 | 010.117 | 42.5 |
| 011.127 | 010.127 | 52.3 |
| 011.133 | 010.133 | 60,5 |





PINZE DI EMERGENZA Tipo 010

EMERGENCY COLLETS

CARATTERISTICHE:

Le pinze di emergenza possono essere facilmente lavorate dal cliente per eseguire una presa pezzo con le dimensioni o la forma desiderata. Sono fornite con spine di registro per il serraggio sul mandrino. Hanno una durezza inferiore sulla "testa" (38/40 HRC) per permettere la lavorabilità.

ISTRUZIONI:

Inserire la pinza sul mandrino. Assicurarsi che le spine siano in posizione nella pinza. Chiudere la pinza. Eseguire la sgrossatura e la finitura al diametro desiderato.

SPECIFICATION:

Emergency collets can be easily bored out or machined by the customer to the desired size or shape. Pins are supplied for accurate machining. The head is soft (hardness 38/40 HRC) for machining to specific.

INSTRUCTION:

Insert the collet in the spindle. Be sure pins are in place in the collet. Close the collet. Rough and finish the bore to the chucking diameter of the part.

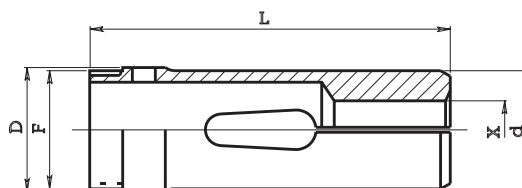


| ART. (Code) | | d | D | L | C |
|-------------|--------|----|----|-----|-----|
| 010.084 EM | 161 E | 32 | 45 | 75 | 15° |
| 010.101 EM | 1536 E | 37 | 47 | 92 | 16° |
| 010.117 EM | 173 E | 48 | 60 | 94 | 15° |
| 010.133 EM | 185 E | 66 | 84 | 110 | 15° |

PINZE DI AVANZAMENTO Tipo 012

FEED FINGERS COLLETS

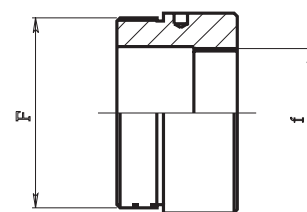
| Code | | | | | | max bores | | |
|---------|-------|------|------|------|---------------|-----------|----|----|
| ART. | D | d | L | F sx | alesaggio max | | | |
| | | | | | ○ | ◇ | □ | |
| 012.007 | 207 E | 18 | 16 | 70 | 16x1 | 12 | 11 | 9 |
| 012.009 | 217 E | 21.5 | 20.5 | 70 | 20x1 | 16 | 14 | 11 |
| 012.025 | 220 E | 24 | 22 | 85 | 22x1 | 18 | 16 | 13 |
| 012.037 | 236 E | 30 | 29 | 95 | 28x1 | 25 | 22 | 17 |
| 012.038 | 237 E | 31 | 29 | 90 | 29x1 | 25 | 22 | 17 |
| 012.052 | | 36 | 35 | 116 | 34x1 | 30 | 26 | 20 |
| 012.060 | 254 E | 42 | 40 | 116 | 40x1 | 36 | 30 | 25 |
| 012.073 | 260 E | 52 | 50 | 116 | 50x1 | 46 | 40 | 32 |
| 012.077 | | 54 | 52 | 130 | 51x1 | 46 | 40 | 32 |
| 012.083 | 273 E | 60 | 58 | 140 | 58x1 | 52 | 45 | 36 |



ADATTATORI PER PINZE DI AVANZAMENTO Tipo 013

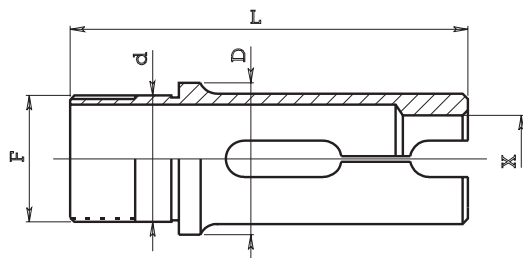
FEED FINGERS FITS

| Code | | | | | | Machine |
|---------|------|------|---------|---------|--|---------------------------------------|
| ART. | F sx | f sx | da | a | | MACCHINA |
| 013.101 | 22x1 | 16x1 | 012.025 | 012.007 | | INDEX 18 riduzione a INDEX 12 |
| 013.102 | 28x1 | 22x1 | 012.037 | 012.025 | | INDEX 24 riduzione a INDEX 18 |
| 013.103 | 29x1 | 22x1 | 012.038 | 012.025 | | INDEX 25 riduzione a INDEX 18 |
| 013.104 | 40x1 | 28x1 | 012.060 | 012.037 | | INDEX 36/B42 riduzione a INDEX 24/B30 |
| 013.105 | 40x1 | 29x1 | 012.060 | 012.038 | | INDEX 36/B42 riduzione a INDEX 25 |
| 013.106 | 58x1 | 40x1 | 012.083 | 012.060 | | INDEX 52/B60 riduzione a INDEX 36/B42 |

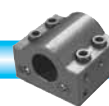
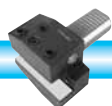


PINZE DI AVANZAMENTO CON MANDATA ESTERNA Tipo 014

FEED FINGERS WITH OUTSIDE SPRING CATCH



| Code | | | | | | max bores | | |
|---------|-------|----|----|-----|---------------|-----------|----|----|
| ART. | D | d | L | F | alesaggio max | | | |
| | | | | | ○ | ◇ | □ | |
| 014.003 | 242 E | 42 | 36 | 120 | 36x1.5 | 30 | 26 | 21 |
| 014.006 | 259 E | 56 | 50 | 138 | 50x1.5 | 42 | 36 | 29 |
| 014.012 | 278 E | 75 | 68 | 138 | 68x1.5 | 60 | 52 | 42 |

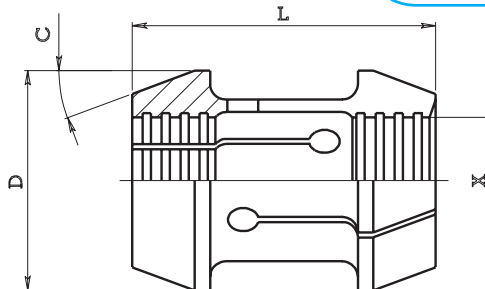




PINZE A DOPPIO CONO Tipo 016

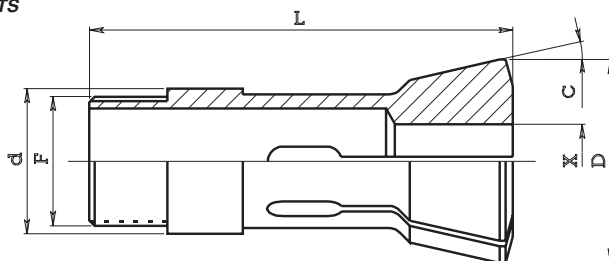
DOUBLE CONE COLLETS

| Code | D | L | C | max bores | | |
|---------|------|-----|--------|---------------|-----|----|
| | | | | alesaggio max | | |
| ART. | D | L | C | ○ | ⬡ | □ |
| 016.024 | 34 | 56 | 17°30' | 26 | 22 | 18 |
| 016.052 | 34.5 | 74 | 25° | 26 | 22 | 18 |
| 016.054 | 26 | 55 | 25° | 15 | 13 | 10 |
| 016.055 | 50 | 80 | 20° | 36 | 31 | 25 |
| 016.043 | 60 | 80 | 17° | 45 | 39 | 30 |
| 016.056 | 69.5 | 100 | 18° | 60 | 52 | 42 |
| 016.051 | 70 | 80 | 16° | 52 | 43 | 36 |
| 016.057 | 72 | 100 | 17° | 56 | 50 | 40 |
| 016.062 | 81 | 90 | 17° | 60 | 52 | 42 |
| 016.070 | 91 | 100 | 17° | 70 | 62 | 50 |
| 016.080 | 108 | 105 | 17° | 80 | 68 | 56 |
| 016.100 | 130 | 120 | 17° | 100 | 86 | 70 |
| 016.120 | 155 | 130 | 16.45° | 120 | 105 | 95 |



PINZE TIRATE Tipo 018

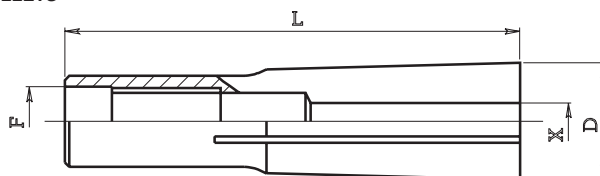
DRAW BACK COLLETS



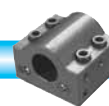
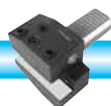
| Code | ART. | d | D | L | C | F | | max bores | | |
|---------|------|----|------|------|-----|-----------|-----------------|---------------|----|----|
| | | | | | | | | alesaggio max | | |
| | | | | | | | | ○ | ⬡ | □ |
| 018.020 | 324E | 15 | 21.5 | 55 | 20° | 13x1 | | 13 | — | — |
| 018.028 | 349E | 20 | 26.3 | 73 | 15° | 19.7x1.66 | a dente di sega | 20 | — | — |
| 018.046 | | 25 | 33.5 | 87.5 | 16° | 23x1 | | 22 | — | — |
| 018.048 | | 25 | 33.7 | 97.6 | 15° | 24.7x15 | a dente di sega | 25 | 20 | 16 |

PINZE PORTA UTENSILI A CONO MORSE Tipo 020

MORSE TAPER COLLETS



| Code | | | | | | | | Machine |
|---------|----|----|-----|------|-----|-----|--------|---|
| ART. | D | L | F | C.M. | X | | progr. | MACCHINA |
| | | | | | min | max | | |
| 020.200 | 18 | 69 | M10 | 2 | 2 | 14 | 0.25 | GIORGI GM20-25-30-32 / ITS TCA 301 / SAIC B26 DIPLOMATIC FR50 / STEINEL SH1-SV1-SV3-5 / BRIDGEPORT testa M (F3/8"-16) |
| 020.300 | 24 | 86 | M12 | 3 | 2 | 18 | 0.5 | CLARKSON affilatrice MARK1 / RAVETTA PB32 DIPLOMATIC FR70 / ITS 36-60 / SAIC B45 |





PINZE PER MANDRINO PRINCIPALE

COLLETS FOR MAIN SPINDLE

| ART. (Code) | Macchina (Machine) | Modello (Type) |
|----------------|-----------------------|----------------------|
| 021.230 | GILDEMEISTER | GM16-AC |
| 018.234 | GILDEMEISTER | AS16/AS GS GM20-6 |
| 022.238 | GILDEMEISTER | AS16/20 GS/GM20 V.25 |
| 021.241 | GILDEMEISTER | GM26 AC |
| 022.253 | GILDEMEISTER | AS GS GM32/GM35-6/8 |
| 022.264 | GILDEMEISTER | AS GS GM42-6 |
| 018.331 | SCHÜTTE | SG18/AG20 |
| 018.332 | SCHÜTTE | SE16/SE18 |
| 018.333 | SCHÜTTE | SF20 |
| 022.331 | SCHÜTTE | SG/AG20 D>18mm |
| 018.346 | SCHÜTTE | VD/SD/SE25/AF/SF26 |
| 018.353 | SCHÜTTE | SD/VD32/AF/SF32 |
| 022.356 | SCHÜTTE | A36 PC |
| 018.363 | SCHÜTTE | AD40/SF42 |
| 022.375 | SCHÜTTE | SD/VD50 Fil.Int. |
| 022.541 | WICKMAN | 1"-6M |
| 022.555 | WICKMAN | 1"3/8-6M |
| 022.564 | WICKMAN | 1"3/4-6M |
| 022.425 | TORNOS | AS14 |
| 018.425 | TORNOS | SAS16 |
| 018.346 | TORNOS | MULTI DECO 26/6 |
| 018.234 | MORI SAY | 6/20 |
| 022.541 | MORI SAY | 6/25 6/26 |
| 022.253 | MORI SAY | 6/32 8/32 |
| 018.363 | MORI SAY | 6/42 8/42 |
| 018.146 | INDEX | KS/MS25 |
| 018.727 | DAVENPORT | 9/16" |
| 022.623 | GRIDLEY | 7/16" |

PINZE DI AVANZAMENTO CON INSERTO CAMBIO RAPIDO

FEED FINGERS COLLETS WITH QUICK CHANGE INSERT

| ART. (Code) | Macchina (Machine) | Modello (Type) |
|----------------|-----------------------|-------------------|
| 013.225-920 | GILDEMEISTER | AS16/AS GS GM20-6 |
| 013.418-917 | TORNOS | AS14 |
| 012.422-917 | TORNOS | SAS16 |
| 013.225-920 | MORI SAY | 6/20 |

BOCCOLE GUIDA BARRA

GUIDE BUSHES

| ART. (Code) | Macchina (Machine) | Modello (Type) |
|----------------|-----------------------|------------------------------|
| 001.228 | GILDEMEISTER | AS16/AS GS GM20-6 |
| 001.229 | GILDEMEISTER | AS16/AS GS GM20-6 Caricatore |
| 001.232 | GILDEMEISTER | AS32 |
| 001.233 | GILDEMEISTER | AS32 |
| 001.240 | GILDEMEISTER | GM32/6 |
| 001.242 | GILDEMEISTER | GM35/6 |
| 001.422 | TORNOS | SAS16 |

PINZE PER MANDRINO DA RIPRESA

COLLETS FOR PICK-UP SPINDLE

| ART. (Code) | Macchina (Machine) | Modello (Type) |
|----------------|-----------------------|---------------------------------|
| 021.018 | GILDEMEISTER | GM16-AC |
| 022.226 | GILDEMEISTER | AS16/AS/GS/SM20-6 |
| 022.028 | GILDEMEISTER | AS16/AS GS GM20-6 |
| 021.028 | GILDEMEISTER | GM26-AC |
| 022.039 | GILDEMEISTER | AS32/GM32-35-6 |
| 021.039 | GILDEMEISTER | GM32-35-6/8 |
| 021.047 | GILDEMEISTER | AS GS GM42-6 |
| 010.047 | GILDEMEISTER | AS16-20-V25-6 Mandrino Frontale |
| 018.220 | GILDEMEISTER | - |
| 021.325 | SCHÜTTE | SG18/AG20 |
| 022.028 | SCHÜTTE | SE16/SE25 |
| 021.035 | SCHÜTTE | SE25 SF26 |
| 022.039 | SCHÜTTE | SD32 AD40 SF42 |
| 010.114 | SCHÜTTE | A36 PC |
| 010.128 | SCHÜTTE | - |
| 021.035 | WICKMAN | 1"-6M |
| 021.047 | WICKMAN | 1"3/8 - 1"3/4 |
| 021.035 | TORNOS | MULTI DECO 26.6 |
| 022.028 | MORI SAY | 6/20 |
| 021.035 | MORI SAY | 6/25 6/26 6/32 8/32 |
| 021.047 | MORI SAY | 6/42 8/42 |

PINZE DI AVANZAMENTO BARRA

FEED FINGERS COLLETS

| ART. (Code) | Macchina (Machine) | Modello (Type) |
|----------------|-----------------------|--------------------|
| 012.222 | GILDEMEISTER | GM16-AC |
| 012.225 | GILDEMEISTER | AS16/AS GS GM20-6 |
| 012.230 | GILDEMEISTER | AS16/AS GS GM20d25 |
| 012.240 | GILDEMEISTER | AS32-6 GM32 |
| 012.242 | GILDEMEISTER | GM35-6 |
| 012.243 | GILDEMEISTER | GM35-6 GM35-8 |
| 012.251 | GILDEMEISTER | AS GS GM42-6 |
| 012.325 | SCHÜTTE | SE16 SE18 |
| 012.335 | SCHÜTTE | SD/SE25 AF/SF26 |
| 012.343 | SCHÜTTE | SD/VD32/AF/SF32 |
| 012.351 | SCHÜTTE | AD40/SF42 |
| 012.531 | WICKMAN | 1"-6M |
| 012.542 | WICKMAN | 1"3/8-6M 1"3/8 5M |
| 012.552 | WICKMAN | 1"3/4-6M 1"3/4 5M |
| 012.418 | TORNOS | AS14 |
| 012.422 | TORNOS | SAS16 |
| 012.225 | MORI SAY | 6/20 |
| 012.531 | MORI SAY | 6/25 6/26 |
| 012.240 | MORI SAY | 6/32 8/32 |
| 012.343 | MORI SAY | 6/32 8/32 |
| 012.351 | MORI SAY | 6/42 8/42 |
| 012.335 | INDEX | KS/MS25 |





PINZE DI SERRAGGIO CON FILETTO ESTERNO Tipo 018

COLLETS WITH EXTERNAL THREAD

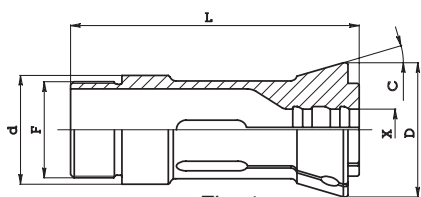


Fig. 1

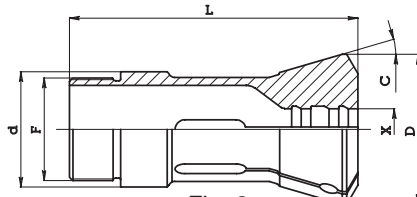


Fig. 2



| Code | | | | | | | | max bores | | | machine | |
|---------|--------|-------|-------|-------|--------|--------------|------|---------------|----|----|-------------------------|--|
| ART. | | d | D | L | C | F | Fig. | alesaggio max | | | Macchina | |
| | | | | | | | | ○ | ⬡ | □ | | |
| 018.146 | 9039 E | 46 | 60.5 | 112 | 15° | 40x1.5 Sin | 2 | 26 | 23 | 18 | INDEX | |
| 018.220 | | 20 | 22 | 94 | 6° | 17x0.75 Sin | 2 | 13 | 11 | 9 | GILDEMEISTER | |
| 018.234 | 9012 E | 34 | 42 | 90 | 16° | 30x1 Sin | 1 | 20 | 17 | 14 | GILDEMEISTER - MORI SAY | |
| 018.331 | | 31.9 | 42 | 84 | 15° | 28x1 Sin | 2 | 18 | 16 | 13 | SCHÜTTE (Chiav.5) | |
| 018.332 | 9007 E | 31.9 | 42 | 84 | 15° | 28x1 Sin | 2 | 20 | 17 | 14 | SCHÜTTE (Chiav.6) | |
| 018.333 | 9016 E | 32 | 41.5 | 84 | 15° | 30x1 Sin | 2 | 20 | 17 | 14 | SCHÜTTE | |
| 018.346 | 9039 E | 46 | 60.3 | 120 | 15° | 40x1.5 Sin | 2 | 26 | 23 | 18 | SCHÜTTE - TORNOS | |
| 018.353 | 9070 E | 53 | 69.3 | 136.5 | 15° | 47x1.5 Sin | 2 | 32 | 28 | 23 | SCHÜTTE | |
| 018.363 | 9112 E | 62.9 | 78.3 | 157 | 15° | 56x1.5 Sin | 2 | 42 | 36 | 29 | SCHÜTTE - MORI SAY | |
| 018.425 | 9021 E | 25 | 35 | 94 | 15°30' | 25x1 | 2 | 16 | 14 | 11 | TORNOS | |
| 018.727 | | 26.95 | 30.19 | 114.3 | 15° | 26.4x16 fil" | 2 | 13 | 11 | 9 | DAVENPORT | |

PINZE DI SERRAGGIO CON FILETTO INTERNO Tipo 022

COLLETS WITH INTERNAL THREAD

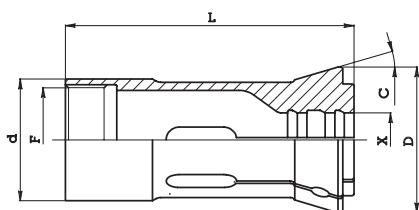


Fig. 1

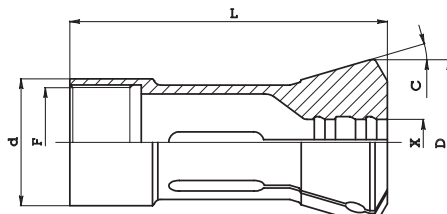
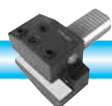


Fig. 2



| Code | | | | | | | | max bores | | | machine | |
|---------|--------|-------|------|------|--------|------------------|------|---------------|----|----|------------------------------------|--|
| ART. | | d | D | L | C | F | Fig. | alesaggio max | | | Macchina | |
| | | | | | | | | ○ | ⬡ | □ | | |
| 022.028 | | 28 | 32 | 64 | 8° | 24x1.5 Sin | 2 | 24 | 21 | 17 | GILDEMEISTER - SCHÜTTE MORI SAY | |
| 022.039 | | 39 | 44 | 90 | 8° | 34x1 Sin | 2 | 32 | 28 | 23 | GILDEMEISTER - SCHÜTTE | |
| 022.226 | | 26 | 28.5 | 80 | 6° | 21.5x0.75 | 2 | 20 | 17 | 14 | GILDEMEISTER | |
| 022.238 | 9017 E | 38 | 45.5 | 90 | 16° | 34.5x0.75 Sin | 1 | 25 | 22 | 17 | GILDEMEISTER | |
| 022.253 | 9069 E | 53 | 69.4 | 137 | 15° | 48x1.5 Sin | 2 | 35 | 31 | 25 | GILDEMEISTER - MORI SAY | |
| 022.264 | 9115 E | 64 | 80.5 | 134 | 15° | 59x1.5 Sin | 2 | 42 | 37 | 30 | GILDEMEISTER | |
| 022.331 | | 32 | 41.5 | 84 | 15°10' | 29x1 Sin Con1:8 | 2 | 21 | 18 | 14 | SCHÜTTE | |
| 022.356 | | 56 | 72.3 | 139 | 15°24' | 52x1.5 Sin | 2 | 46 | 40 | 33 | SCHÜTTE | |
| 022.375 | | 75 | 97.8 | 175 | 15°24' | 70x1.5 Sin | 2 | 63 | 55 | 45 | SCHÜTTE | |
| 022.425 | 9001 E | 25 | 35 | 75 | 15°24' | 22x1 | 2 | 19 | 16 | 13 | TORNOS | |
| 022.541 | 9034 E | 41.3 | 54.5 | 132 | 15° | 37.8x24 fil" Sin | 2 | 25 | 22 | 18 | WICKMAN - MORI SAY | |
| 022.555 | 9072 E | 55.47 | 67 | 117 | 15° | 50.927x22 fil" | 2 | 36 | 31 | 25 | WICKMAN | |
| 022.564 | 9111 E | 64.21 | 78.5 | 127 | 15° | 60.45x16 fil" | 2 | 44 | 38 | 31 | WICKMAN | |
| 022.623 | | 23.77 | 29.3 | 78.8 | 15° | 20.64x32 fil" | 2 | 11 | 10 | 8 | GRIDLEY | |





PINZE CON AGGANCIAMENTO RAPIDO Tipo 021

QUICK INSTALLATION COLLETS

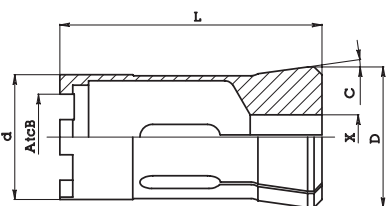


Fig. 1

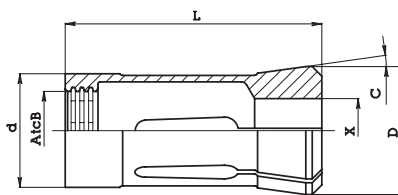


Fig. 2

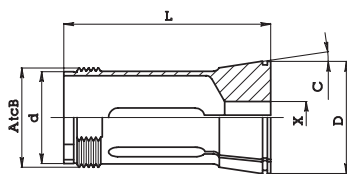


Fig. 3

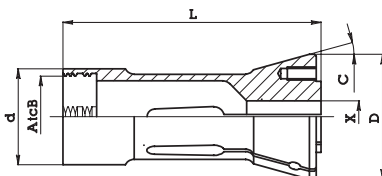


Fig. 4

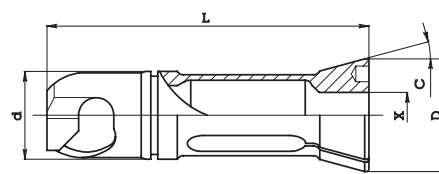
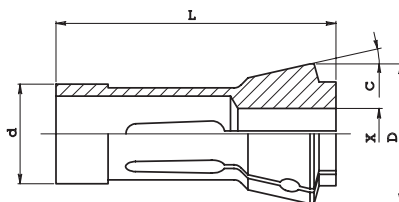


Fig. 5

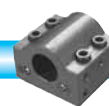
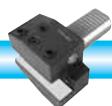
| Code | | | | | | | | max bores | | | machine |
|---------|------|------|------|--------|--------------------|------|---------------|-----------|----|--|---------|
| ART. | d | D | L | C | F | Fig. | alesaggio max | | | Macchina | |
| | | | | | | | ○ | ⬡ | □ | | |
| 021.018 | 18.7 | 25 | 51.5 | 8° | AtcB 21x1.5 60° | 3 | 16 | 14 | 11 | GILDEMEISTER | |
| 021.026 | 28 | 35 | 88 | 30° | AtcB 25x2.7 30° | 2 | 24 | 20 | 17 | - | |
| 021.027 | 28 | 32 | 73 | 8°10' | AtcB 25x2.7 30° | 2 | 24 | 20 | 17 | - | |
| 021.028 | 28.7 | 35 | 64.5 | 8° | AtcB 31x1.5 60° | 3 | 26 | 22 | 18 | GILDEMEISTER | |
| 021.029 | 28.5 | 32.5 | 66.8 | 12°12' | AtcB D28.1 | - | 24 | 20 | 17 | GILDEMEISTER | |
| 021.035 | 35.5 | 40 | 80 | 8°10' | AtcB 27x2.7 30° | 2 | 32 | 27 | 22 | SCHÜTTE - MORI SAY WICKMAN - TORNOS | |
| 021.039 | 39 | 44 | 82 | 8° | AtcB 11x4 | 1 | 32 | 28 | 23 | GILDEMEISTER | |
| 021.047 | 47 | 52.5 | 73 | 8° | AtcB 29x2.7 30° | 2 | 42 | 36 | 29 | GILDEMEISTER - SCHÜTTE MORI SAY - WICKMAN | |
| 021.230 | 30 | 39 | 80.5 | 15° | AtcB 27.12x1.5 60° | 4 | 16 | 14 | 11 | GILDEMEISTER | |
| 021.230 | 30 | 39 | 86.5 | 15° | AtcB 27.12x1.5 60° | 4 | 9 | 8 | 8 | GILDEMEISTER | |
| 021.241 | 41 | 53 | 106 | 15° | AtcB 37x2.7 30° | 3 | 26 | 22 | 18 | GILDEMEISTER | |
| 021.325 | 25 | 32.1 | 91.5 | 15°10' | - | 5 | 19 | 16 | 13 | SCHÜTTE | |

PINZE SPINTE Tipo 010

PUSH COLLETS



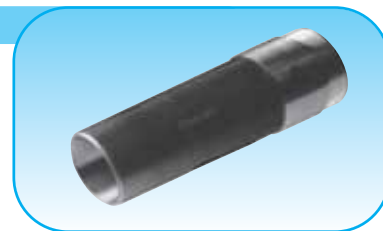
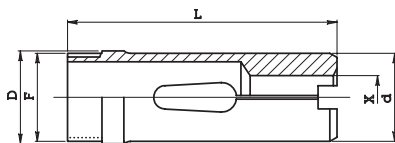
| Code | | | | | | | | max bores | | | machine |
|---------|----|----|----|--------|-------------------|------|---------------|-----------|----|--------------|---------|
| ART. | d | D | L | C | tipo | Fig. | alesaggio max | | | Macchina | |
| | | | | | | | ○ | ⬡ | □ | | |
| 010.047 | 20 | 26 | 60 | 15° | Mandrino frontale | - | 20 | 17 | 14 | GILDEMEISTER | |
| 010.114 | 44 | 54 | 76 | 15°24' | Mandrino pick-up | - | 37 | 32 | 26 | SCHÜTTE | |
| 010.128 | 59 | 67 | 76 | 15°24' | Mandrino pick-up | - | 52 | 45 | 36 | SCHÜTTE | |





PINZE DI AVANZAMENTO BARRA Tipo 012

FEED FINGERS COLLETS



| Code | | | | | | | | max bores | | | machine |
|---------|--------|------|-------|-----|---|-------------------|------|---------------|----|----|-------------------------|
| ART. | | d | D | L | C | F | Fig. | alesaggio max | | | Macchina |
| | | | | | | | | ○ | ⬡ | □ | |
| 012.222 | | 20 | 22 | 86 | - | 20x1 | - | 16 | 14 | 11 | GILDEMEISTER |
| 012.225 | 9258 E | 25 | 25 | 90 | - | 24x1 | - | 20 | 17 | 14 | GILDEMEISTER - MORI SAY |
| 012.230 | 9288 E | 30 | 30.5 | 90 | - | 28x0.75 | - | 25 | 22 | 17 | GILDEMEISTER |
| 012.240 | 9336 E | 39.8 | 41.2 | 136 | - | 38x1.5 Sin | - | 32 | 28 | 23 | GILDEMEISTER - MORI SAY |
| 012.242 | 9335 E | 41 | 41.2 | 136 | - | 39x1 Sin | - | 35 | 31 | 25 | GILDEMEISTER |
| 012.243 | 9335 E | 41 | 41.2 | 136 | - | 39x1 | - | 35 | 31 | 25 | GILDEMEISTER |
| 012.251 | 9374 E | 50.2 | 51.5 | 136 | - | 48x1.5 | - | 42 | 37 | 30 | GILDEMEISTER |
| 012.325 | 9255 E | 23 | 25 | 88 | - | 23x1 | - | 18 | 16 | 13 | SCHÜTTE |
| 012.335 | 9282 E | 33 | 35 | 118 | - | 33x1.5 | - | 26 | 23 | 18 | SCHÜTTE - INDEX |
| 012.343 | 9319 E | 40 | 43 | 130 | - | 38x1.5 | - | 32 | 28 | 23 | SCHÜTTE - MORI SAY |
| 012.351 | 9372 E | 48 | 51 | 158 | - | 48x1.5 | - | 42 | 36 | 29 | SCHÜTTE - MORI SAY |
| 012.418 | 9251 E | 17.5 | 18 | 70 | - | 16x0.75 | - | 14 | 11 | 9 | TORNOS |
| 012.422 | 9265 E | 20.5 | 22.8 | 98 | - | 20x0.75 | - | 16 | 14 | 11 | TORNOS |
| 012.531 | 9276 E | 31 | 31.9 | 133 | - | 30.07x24 fil" Sin | - | 25 | 22 | 18 | WICKMAN - MORI SAY |
| 012.542 | 9318 E | 41.5 | 42.84 | 118 | - | 40.46x24 fil" Sin | - | 36 | 31 | 25 | WICKMAN |
| 012.552 | 9362 E | 51.5 | 52.21 | 127 | - | 49.98x22 fil" Sin | - | 44 | 38 | 31 | WICKMAN |

PINZE DI AVANZAMENTO CON INSERTO CAMBIO RAPIDO Tipo 013

FEED FINGERS COLLETS WITH QUICK CHANGE INSERT

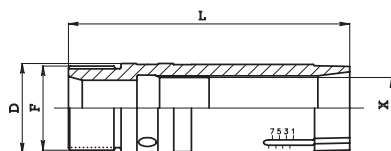


Fig. 1

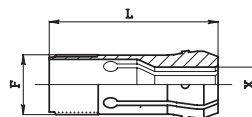


Fig. 2

| Code | | | | | | insert code | max bores | | | machine |
|-------------|--------|------|----|---------|------|---------------------|---------------|----|----|-------------------------|
| ART. | | D | L | F | Fig. | (X) ART. INSERTO | alesaggio max | | | Macchina |
| | | | | | | | ○ | ⬡ | □ | |
| 013.225-920 | 9258 E | 25.5 | 80 | 24x1 | 1 | 013.920 | 17 | 15 | 12 | GILDEMEISTER - MORI SAY |
| 013.418-917 | 9251 E | 18 | 70 | 16x0.75 | 1 | 013.917 | 14 | 12 | 10 | TORNOS |
| 013.422-917 | 9265 E | 22.8 | 85 | 20x0.75 | 1 | 013.917 | 14 | 12 | 10 | TORNOS |
| 013.917 | | - | 48 | 17x1 | 2 | - | 14 | 12 | 10 | - |
| 013.920 | | - | 61 | 20x1 | 2 | - | 17 | 15 | 12 | - |

BOCCOLE GUIDA BARRA Tipo 001

GUIDE BUSHES

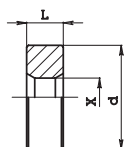


Fig. 1

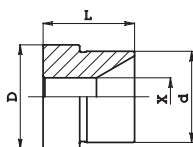
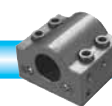
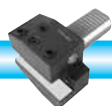


Fig. 2

| Code | | | | | | max bores | | | machine |
|---------|------|------|----|------|--|---------------|----|----|--------------|
| ART. | d | D | L | Fig. | | alesaggio max | | | Macchina |
| | | | | | | ○ | ⬡ | □ | |
| 001.228 | 28.5 | - | 10 | 1 | | 25 | 22 | 18 | GILDEMEISTER |
| 001.229 | 25 | 28.5 | 25 | 2 | | 20 | 17 | 14 | GILDEMEISTER |
| 001.232 | 32.7 | 35.9 | 9 | 2 | | 32 | 27 | 22 | GILDEMEISTER |
| 001.233 | 33 | 43.8 | 27 | 2 | | 32 | 27 | 22 | GILDEMEISTER |
| 001.240 | 40 | 47.8 | 43 | 2 | | 32 | 27 | 22 | GILDEMEISTER |
| 001.242 | 42 | 47.8 | 43 | 2 | | 35 | 30 | 24 | GILDEMEISTER |
| 001.424 | 24x1 | - | 14 | 1 | | 20 | 17 | 14 | TORNOS |





PINZE PER CARICATORI Tipo 035 e 036

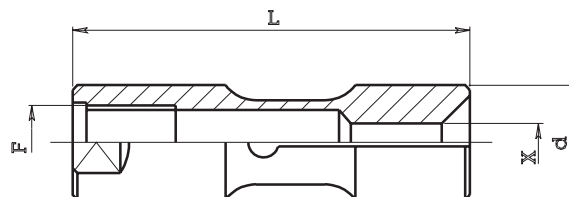
BARLOADER COLLETS

PINZE PER CARICATORI CON FILETTO DESTRO

BARLOADER COLLETS WITH RIGHT THREAD



| Code | | | | max bores | | Machine |
|---------|------|----|--------|-----------|-------|--------------------|
| ART. | d | L | F | X min | X max | caricatore |
| 036.070 | 7.5 | 40 | 5x0.5 | 1.6 | 6.5 | IEMCA |
| 036.100 | 10 | 50 | 6x0.75 | 2 | 8 | CUCCHI |
| 036.101 | 10 | 40 | 6x0.75 | 2 | 8 | IEMCA |
| 036.120 | 12 | 52 | 7x0.75 | 2 | 10.5 | CUCCHI |
| 036.121 | 12 | 42 | 7x0.75 | 2 | 10.5 | IEMCA |
| 036.140 | 14 | 52 | 8x1 | 3 | 12.5 | CUCCHI |
| 036.150 | 15 | 52 | 8x1 | 2 | 13.5 | CUCCHI |
| 036.151 | 15 | 42 | 8x1 | 2 | 13.5 | IEMCA |
| 036.160 | 16 | 52 | 8x1 | 10 | 14 | CUCCHI |
| 036.161 | 16 | 42 | 8x1 | 10 | 14 | IEMCA |
| 036.180 | 18 | 59 | 10x1 | 4 | 16 | CUCCHI |
| 036.200 | 20 | 59 | 10x1 | 3 | 18 | CUCCHI e IEMCA |
| 036.220 | 22 | 59 | 10x1 | 16 | 20 | CUCCHI E IEMCA |
| 036.250 | 25 | 59 | 10x1 | 4 | 23 | IEMCA |
| 036.251 | 25 | 59 | 14x1 | 4 | 23 | CUCCHI |
| 036.300 | 30 | 65 | 10x1 | 8 | 28 | IEMCA |
| 036.301 | 30 | 65 | 18x1.5 | 10 | 28 | CUCCHI |
| 036.320 | 32 | 65 | 10x1 | 29 | 30 | IEMCA |
| 036.400 | 40 | 70 | 25x1.5 | 10 | 37 | CUCCHI e IEMCA |
| 036.420 | 42 | 70 | 25x1.5 | 38 | 39 | CUCCHI E IEMCA |
| 036.460 | 46 | 72 | 25x1.5 | 37 | 42 | CUCCHI e IEMCA |
| 036.550 | 55 | 80 | 25x1.5 | 43 | 51 | CUCCHI e IEMCA (1) |
| 036.600 | 60 | 80 | 25x1.5 | 30 | 55 | CUCCHI e IEMCA |
| 036.650 | 65 | 80 | 25x1.5 | 56 | 60 | CUCCHI e IEMCA |
| 036.700 | 69.5 | 80 | 25x1.5 | 61 | 65 | CUCCHI e IEMCA |
| 036.750 | 75 | 80 | 25x1.5 | 66 | 70 | CUCCHI e IEMCA |



(1) A RICHIESTA
On request

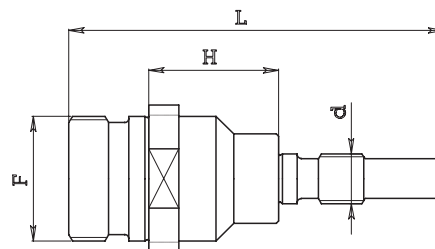
PINZE PER CARICATORI CON FILETTO SINISTRO

BARLOADER COLLETS WITH LEFT THREAD

| Code | | | | max bores | | Machine |
|-----------|------|----|-----------|-----------|-------|-----------------|
| ART. | d | L | F | X min | X max | caricatore |
| 035.190 | 19 | 60 | 10x1 sx | 4 | 16 | CUCCHI PB 20 |
| 035.200 | 20 | 60 | 10x1 sx | 17 | 18 | CUCCHI PB 20 |
| 035.230 | 23 | 60 | 14x1 sx | 4 | 20 | CUCCHI PB 24 |
| 035.250 | 25 | 60 | 14x1 sx | 20 | 23 | CUCCHI PB 24 |
| 035.290 | 29 | 65 | 18x1.5 sx | 4 | 26 | CUCCHI PB 30 |
| 035.300 | 30 | 65 | 18x1.5 sx | 26 | 27.5 | CUCCHI PB 30 |
| 035.350 | 35 | 70 | 18x1.5 sx | 24 | 33 | CUCCHI PB 35 |
| 035.370 | 37 | 70 | 25x1.5 sx | 10 | 34 | CUCCHI PB 38 |
| 035.390 | 39 | 70 | 25x1.5 sx | 34 | 36 | CUCCHI PB 40 |
| 035.400S* | 40 | 70 | 25x1.5 sx | 4 | 36 | SACO |
| 035.410 | 41 | 70 | 25x1.5 sx | 36 | 38 | CUCCHI PB 42 |
| 035.410S* | 41 | 70 | 25x1.5 sx | 36.5 | 38 | SACO |
| 035.470 | 47 | 70 | 30x1.5 sx | 14 | 43 | CUCCHI PB 48 |
| 035.490 | 49 | 70 | 30x1.5 sx | 44 | 45 | CUCCHI PB 50 |
| 035.590 | 59 | 80 | 30x1.5 sx | 30 | 55 | CUCCHI PB 60 |
| 035.650 | 65 | 80 | 30x1.5 sx | 56 | 60 | CUCCHI PB 68 |
| 035.700 | 69.5 | 80 | 30x1.5 sx | 61 | 65 | CUCCHI PB 70-72 |
| 035.750 | 75 | 80 | 30x1.5 sx | 66 | 70 | CUCCHI PB 75 |

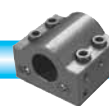
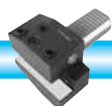
NIPLEX DI RIDUZIONE PER PINZE CARICATORE

NIPLEX REDUCTION FOR BARLOADER COLLETS



| Code | | | | Machine | |
|------------|-----------|----|----|---------|-------------------------------|
| ART. | F | L | H | d | per pinza |
| 036000 S10 | 25x1.5 sx | 75 | 26 | 10x1 | 036.200 036.250 |
| 036000 S14 | 25x1.5 sx | 75 | 26 | 14x1 | 036.251 |
| 036000 S18 | 25x1.5 sx | 75 | 20 | 18x1.5 | 036.301 |
| 036000 S25 | 25x1.5 sx | 75 | 14 | 25x1.5 | 036.400 036.420 036.460 |

(*) FILETTO LATERALE M6.
(*) Screw on side M6.





ROTANTI PER CARICATORI Tipo 516 e 517

BARLOADERS REVOLVING

PER CARICATORI "IEMCA" CON FILETTO DESTRO

REVOLVING "IEMCA" WITH RIGHT THREAD

| ART. (Code) | D | L | F | d | fig. |
|-------------|-----|-----|--------|--------|------|
| 516.007 | 7.5 | 126 | 6x0.75 | 5x0.5 | 1 |
| 516.010 | 10 | 113 | 8x1 | 6x0.75 | 1 |
| 516.012 | 12 | 116 | 10x1 | 7x0.75 | 1 |
| 516.015 | 15 | 121 | 12x1.5 | 8x1 | 1 |
| 516.020 | 20 | 133 | 14x1.5 | 10x1 | 1 |
| 516.025 | 25 | 133 | 14x1.5 | 10x1 | 1 |
| 516.030 | 30 | 135 | 14x1.5 | 10x1 | 1 |

PER CARICATORI "CUCCHI" CON FILETTO DESTRO

REVOLVING "CUCCHI" WITH RIGHT THREAD

| ART. (Code) | D | L | F | d | fig. |
|-------------|----|-----|---------|--------|------|
| 517.010 | 10 | 107 | 7x1 | 6x0.75 | 2 |
| 517.012 | 12 | 107 | 8x1.25 | 7x0.75 | 2 |
| 517.014 | 14 | 107 | 10x1.5 | 8x1 | 2 |
| 517.016 | 16 | 107 | 10x1.5 | 8x1 | 2 |
| 517.019 | 19 | 118 | 12x1.75 | 10x1 | 2 |
| 517.025 | 25 | 118 | 20x1.5 | 14x1 | 2 |
| 517.030 | 30 | 123 | 24x1.5 | 18x1.5 | 2 |
| 517.040 | 40 | 61 | 28x1.5 | 25x1.5 | 4 |

PER CARICATORI "CUCCHI" CON FILETTO SINISTRO

REVOLVING "CUCCHI" WITH LEFT THREAD

| ART. (Code) | D | L | F | d | fig. |
|-------------|------|-----|-----------|-----------|------|
| 517.120 | 19 | 100 | 17x1 sx | 10x1 sx | 2 |
| 517.120P | 19 | 100 | 17x1 sx | 14x1.5 sx | 2 |
| 517.120S | 19 | 105 | 17x1 sx | 10x1 sx | 3 |
| 517.125 | 24 | 100 | 20x1.5 sx | 14x1 sx | 2 |
| 517.125P | 24 | 100 | 20x1.5 sx | 20x1.5 sx | 2 |
| 517.125S | 24 | 105 | 20x1.5 sx | 14x1 sx | 3 |
| 517.130 | 29.3 | 100 | 26x1.5 sx | 18x1.5 sx | 2 |
| 517.130S | 29.3 | 100 | 26x1.5 sx | 18x1.5 sx | 3 |
| 517.130P | 29.3 | 100 | 26x1.5 sx | 26x1.5 sx | 2 |
| 517.135 | 35 | 100 | 30x1.5 sx | 18x1.5 sx | 2 |
| 517.135P | 35 | 100 | 30x1.5 sx | 30x1.5 sx | 2 |
| 517.138 | 38 | 83 | 30x1.5 sx | 25x1.5 sx | 2 |
| 517.138P | 38 | 83 | 30x1.5 sx | 30x1.5 sx | 2 |
| 517.145 | 45 | 100 | 36x1.5 sx | 30x1.5 sx | 2 |
| 517.145P | 45 | 100 | 36x1.5 sx | 36x1.5 sx | 2 |
| 517.148 | 48 | 100 | 36x1.5 sx | 30x1.5 sx | 2 |
| 517.148P | 48 | 100 | 36x1.5 sx | 36x1.5 sx | 2 |
| 517.160 | 60 | 113 | 50x1.5 sx | 30x1.5 sx | 2 |

PER CARICATORI "GIORGI" CON FILETTO DESTRO

REVOLVING "GIORGI" WITH RIGHT THREAD

| ART. (Code) | D | L | F | d | fig. |
|-------------|----|-----|--------|------|------|
| 517.719 | 19 | 92 | 14x1.5 | 10x1 | 2 |
| 517.728 | 28 | 100 | 20x1.5 | 14x1 | 2 |

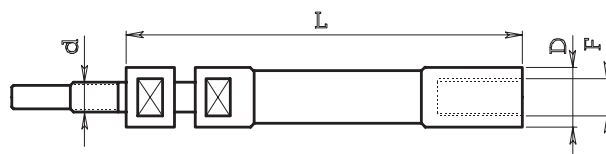


Fig. 1

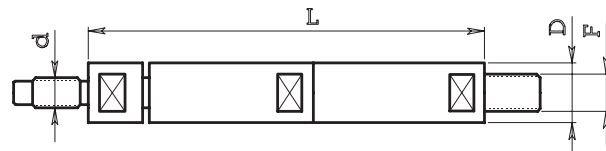


Fig. 2

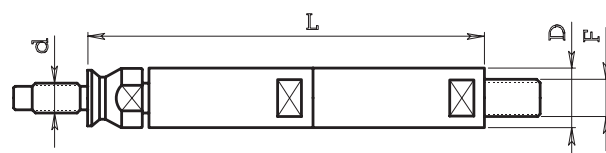


Fig. 3

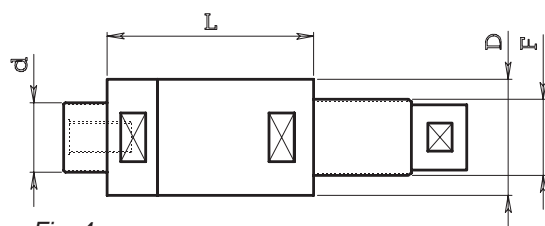
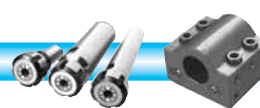
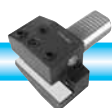


Fig. 4





PINZE PER CARICATORI Tipo 034

BARLOADERS COLLETS

PER CARICATORI (FOR BARLOADER):

FMB - TRAUB - HAGENUK - IEMCA - ROBOBAR
LNS - SAMECA - MINISPRINT - MINITURBO

| ART. (Code) | D | L | F | X min | X max | Ø B | A | fig. |
|-------------|----|----|-------|-------|-------|-----|---|------|
| 034.105 | 5 | 37 | M 4 | 1,5 | 4 | - | - | 2 |
| 034.107 | 7 | 37 | M 5 | 2 | 5,5 | - | - | 2 |
| 034.110 | 10 | 40 | 7 H7 | 3 | 8 | 4,1 | 6 | 1 |
| 034.112 | 12 | 40 | 8 H7 | 3 | 9,5 | 4,1 | 6 | 1 |
| 034.115 | 15 | 40 | 11 H7 | 3 | 13 | 6,1 | 6 | 1 |
| 034.116 | 16 | 40 | 11 H7 | 3 | 14 | 6,1 | 6 | 1 |
| 034.118 | 18 | 40 | 11 H7 | 3 | 16 | 6,1 | 6 | 1 |
| 034.120 | 20 | 65 | 14 H7 | 4 | 18 | 8,1 | 7 | 1 |
| 034.125 | 25 | 65 | 20 H7 | 4 | 22 | 8,1 | 7 | 1 |
| 034.132 | 32 | 65 | 20 H7 | 10 | 29 | 8,1 | 7 | 1 |

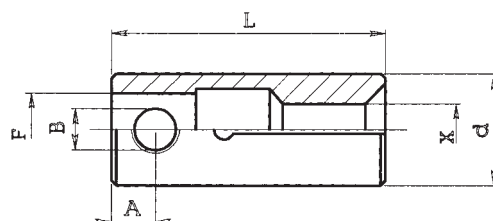


Fig. 1

PER CARICATORI (FOR BARLOADER):

LNS TRYTON

| ART. (Code) | D | L | F | X min | X max | fig. |
|-------------|------|----|------|-------|-------|------|
| 034.006 | 6 | 30 | M 4 | 1,5 | 4,5 | 2 |
| 034.007 | 7 | 30 | M 4 | 2 | 5 | 2 |
| 034.010 | 10 | 30 | M 5 | 2 | 8 | 2 |
| 034.012 | 12 | 30 | M 6 | 3 | 9,5 | 2 |
| 034.013 | 12,5 | 30 | M 6 | 9,5 | 10,5 | 2 |
| 034.017 | 16,5 | 35 | M 8 | 4 | 14,5 | 2 |
| 034.020 | 20 | 35 | M 10 | 4 | 18 | 2 |

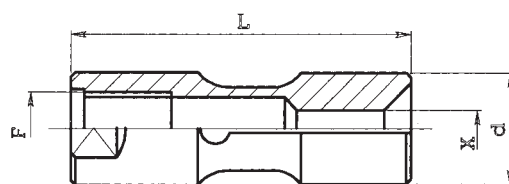


Fig. 2

PER CARICATORI (FOR BARLOADER):

FMB - TRAUB - HAGENUK - IEMCA - ROBOBAR
LNS - SAMECA - MINISPRINT - MINITURBO

| ART. (Code) | D | L | F | X min | X max | fig. |
|-------------|----|----|-------|-------|-------|------|
| 034.225 | 25 | 90 | 20 H7 | 3 | 20 | 3 |
| 034.232 | 32 | 90 | 20 H7 | 5 | 29,5 | 3 |
| 034.236 | 36 | 90 | 20 H7 | 5 | 33 | 3 |
| 034.242 | 42 | 90 | 20 H7 | 6 | 39 | 3 |

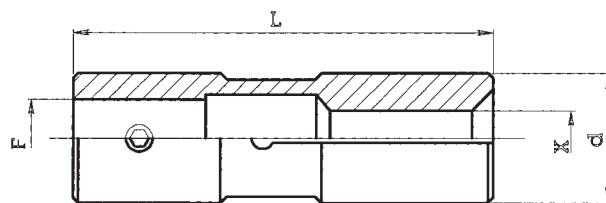
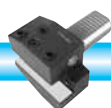


Fig. 3





ROTANTI PER CARICATORI Tipo 518

BARLOADERS REVOLVING

PER CARICATORI (FOR BARLOADER):

TRAUB - FMB - HAGENUK - LNS

| ART. (Code) | D | L | F | d | fig. |
|-------------|-----|------|-----|-----|------|
| 518.005 | 5,5 | 69 | - | M 4 | 1 |
| 518.007 | 7 | 78,5 | M 5 | M 5 | 1 |

PER CARICATORI (FOR BARLOADER):

FMB - HAGENUK

| ART. (Code) | D | L | F | d | H | fig. |
|-------------|----|------|---|---|----|------|
| 518.110 | 10 | 45,5 | 8 | 7 | 31 | 2 |
| 518.112 | 12 | 45,5 | 8 | 8 | 31 | 2 |

PER CARICATORI (FOR BARLOADER):

FMB - HAGENUK - TRAUB

| ART. (Code) | D | L | F | d | H | fig. |
|-------------|----|----|----|----|----|------|
| 518.115 | 15 | 50 | 12 | 11 | 31 | 2 |
| 518.118 | 18 | 50 | 12 | 11 | 31 | 2 |
| 518.120 | 20 | 50 | 17 | 14 | 31 | 2 |
| 518.125 | 25 | 50 | 20 | 20 | 31 | 2 |

PER CARICATORI (FOR BARLOADER):

TORNOS ROBOBAR

| ART. (Code) | D | L | F | d | fig. |
|-------------|------|-----|-----|-----|------|
| 518.205 | 5,5 | 78 | M 3 | M 4 | 1 |
| 518.207 | 7,5 | 78 | 5 | M 5 | 1 |
| 518.210 | 10,5 | 81 | 8 | 7 | 3 |
| 518.216 | 16 | 126 | 10 | 11 | 3 |
| 518.218 | 18 | 126 | 10 | 11 | 3 |
| 518.221 | 20,5 | 127 | 14 | 14 | 3 |
| 518.225 | 25 | 127 | 20 | 20 | 3 |
| 518.226 | 26 | 127 | 20 | 20 | 3 |
| 518.236 | 36 | 127 | 25 | 20 | 3 |

PER CARICATORI (FOR BARLOADER):

TRAUB - FMB - HAGENUK - LNS

| ART. (Code) | D | L | F | d | fig. |
|-------------|----|------|----|----|------|
| 518.310 | 10 | 51 | 8 | 7 | 3 |
| 518.312 | 12 | 51 | 8 | 8 | 3 |
| 518.315 | 15 | 51 | 12 | 11 | 3 |
| 518.318 | 18 | 51 | 12 | 11 | 3 |
| 518.320 | 20 | 56 | 17 | 14 | 3 |
| 518.320B | 20 | 51 | 12 | 11 | 3 |
| 518.325 | 25 | 58,5 | 20 | 20 | 3 |

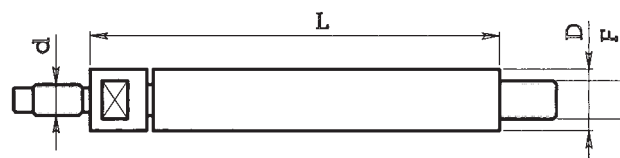


Fig. 1

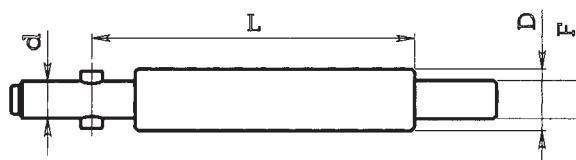


Fig. 2

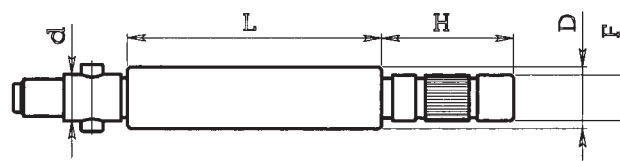
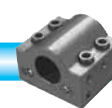
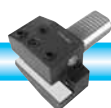


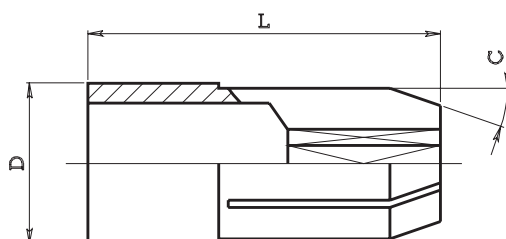
Fig. 3





PINZE PER ROTANTI Tipo 039

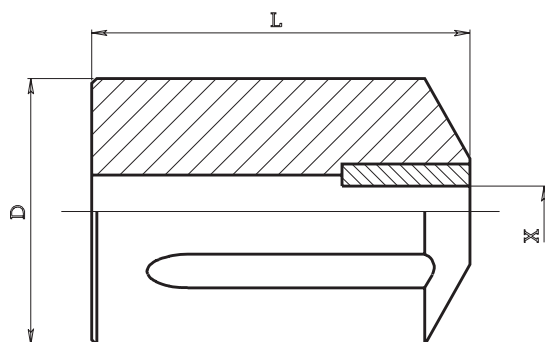
REVOLVING COLLETS



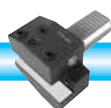
| ART. (Code) | D | L | C | macchine (machines) |
|-------------|----|----|-----|--|
| 039.110 | 9 | 30 | 19° | STROHM M4-5 / TORNOS M4-T4 |
| 039.130 | 15 | 35 | 19° | STROHM 105-125 / TORNOS M10-R10 |
| 039.150 | 16 | 35 | 19° | STROHM 105-125 / TOBRE 10 / TORNOS M10-R10 |
| 039.220 | 28 | 45 | 29° | STROHM 205 / TORNOS M20-RR20 |
| 039.230 | 32 | 45 | 19° | STROHM 255 / TORNOS M25 |

BUSOLE GUIDA BARRA FISSE IN METALLO DURO Tipo 040

HARD METAL FIXED BUSHES



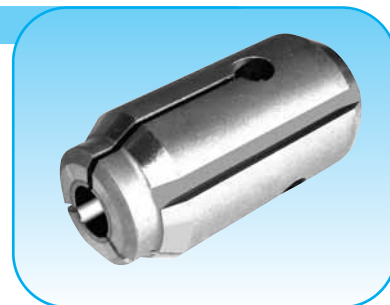
| ART. (Code) | D | L | X max | macchine (machines) |
|-------------|----|----|-------|--|
| 040.011 | 10 | 18 | 4.5 | STROHM M4-5 / TORNOS M3 |
| 040.020 | 13 | 30 | 8 | PETERMAN 1-P4 / TORNOS M4-M6-T4-TV / BECHLER A7 |
| 040.031 | 15 | 30 | 10 | STROHM M75-105-125 / TORNOS M7 |
| 040.040 | 16 | 30 | 10 | PETERMAN P7-P7R / BECHLER A10 / STROHM M75-105-125 |
| 040.050 | 20 | 30 | 13 | BECHET 1068-1268 / STROHM 125 / BECHLER A10 / PETERMAN 10-10H7 |
| 040.051 | 22 | 35 | 13 | TORNOS R10 |
| 040.060 | 25 | 35 | 18 | PETERMAN 10-10HS-10R-10HSR / OCEA THF25 |
| 040.073 | 32 | 45 | 24 | STROHM 205-255 / TORNOS M15-R16-RR20-M25 / OCEA THF40 |
| 040.080 | 35 | 45 | 22 | PETERMAN 2A-2AR-P16-P20 |
| 040.090 | 40 | 45 | 30 | TORNOS M20-M25-M28 / BECHET 2568 / PETERMAN P25 |



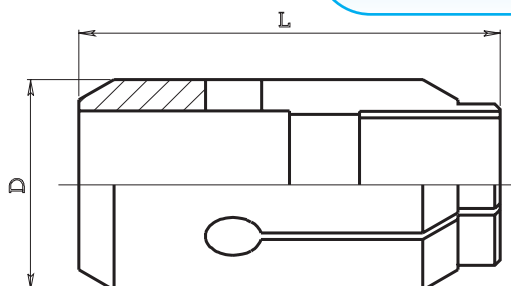


BUSSOLE GUIDA BARRA IN METALLO DURO REGISTRABILI (spinte)

HARD METAL ADJUSTABLE BUSHES (THRUST)

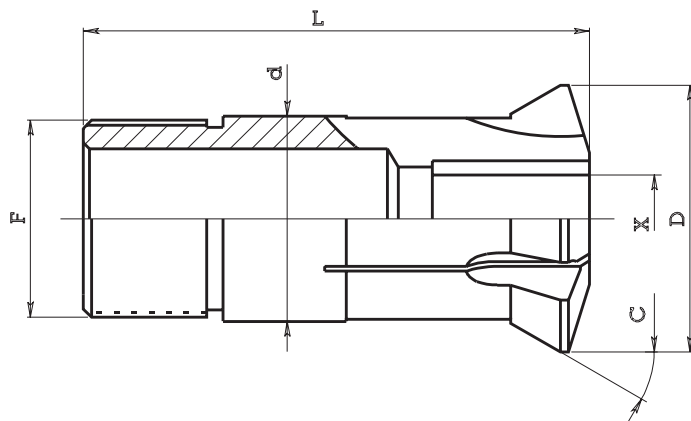
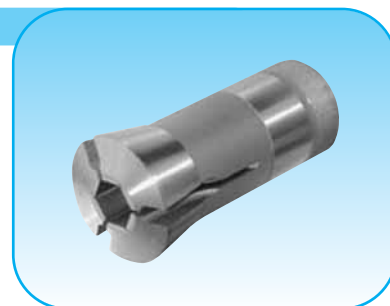


| ART. (Code) | D | L | macchine (machines) |
|-------------|----|----|---------------------|
| 041.108 | 8 | 30 | BECHLER A4-A7 |
| 041.116 | 16 | 40 | BECHLER A7-A10-AE10 |
| 041.120 | 20 | 40 | BECHLER A10 |
| 041.130 | 30 | 60 | BECHLER B12-16-20 |
| 041.134 | 34 | 60 | BECHLER B12-16-20 |
| 041.142 | 42 | 72 | BECHLER C26 |
| 041.148 | 48 | 73 | BECHLER C32 |

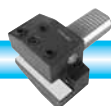


BUSSOLE GUIDA BARRA IN METALLO DURO REGISTRABILI (tirate)

HARD METAL ADJUSTABLE BUSHES (DRAW BACK)



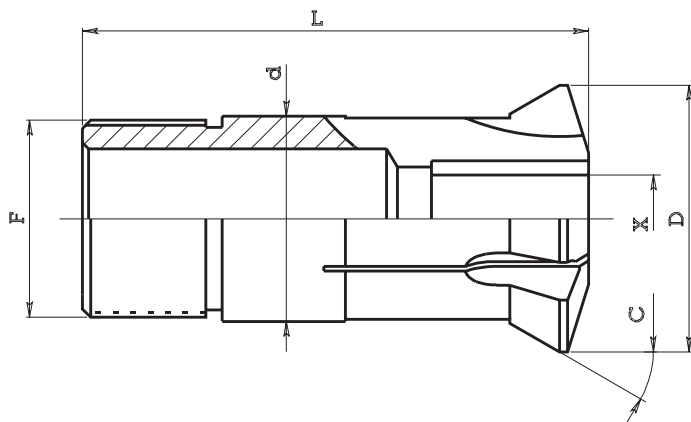
| ART. (Code) | d | D | L | C | F | X max | macchine (machines) |
|-------------|----|------|------|-----|------------|-------|--|
| 042.010 | 7 | 9.5 | 30 | 16° | 6x0.5 | 3.5 | PETERMAN P3 |
| 042.030 | 9 | 11.5 | 25 | 30° | 6x0.5 int. | 4.5 | PETERMAN P4 |
| 042.040 | 9 | 12.5 | 44 | 16° | 8x0.75 | 4.5 | TORNOS M4-T4-TV / PETERMAN P4 / CITIZEN L10-L10 WATCH |
| 042.050 | 9 | 13 | 52 | 30° | 9x0.7 | 4.5 | TORNOS M4-T4-TV / BECHLER A-AR-AS4 / GAUTHIER 1H-GM75-GM17 STROHM M 45 |
| 042.060 | 10 | 14 | 57 | 36° | 10x1 | 4.5 | TORNOS M4 |
| 042.070 | 11 | 14.5 | 53 | 16° | 10x0.75 | 7 | TORNOS M7 / TSUGAMI NP-4W / TSUGAMI MORI B207III |
| 042.080 | 12 | 15.5 | 50 | 16° | 10x0.75 | 7 | PETERMAN P7 |
| 042.090 | 12 | 15 | 52 | 30° | 12x1 | 7 | TORNOS M7-TV-MS1 / BECHLER A-AR-AS7 / PETERMAN NO1R-P7-M7 STROHM M-SJ75K M75 / TSUGAMI NP-4W / TORNOS-BECHLER ENC 16-162-164 |
| 042.100 | 13 | 16 | 41.5 | 15° | 12.5x0.75 | 9 | BECHLER AE7 - AE10 - AR10 |
| 042.110 | 13 | 17 | 68 | 5° | 13x1 | 9 | TORNOS M7 MAGIC |
| 042.120 | 14 | 18 | 64 | 16° | 13x0.75 | 9 | TORNOS R10 |
| 042.130 | 16 | 19.8 | 58 | 16° | 14x1 | 10 | TORNOS MV-R10 / PETERMAN P7R / BECHET RMA7-RMA17 STAR SCN10DX-JNC10-RNC10 / CITIZEN G10-D10-L10-L101-F12 NOMURA I-CAM NN 1053A / TORNOS-BECHLER ENC 16-162-164 |
| 042.140 | 16 | 20 | 55 | 30° | 16x1 | 10 | GIGY GL16 / PETERMAN P7R / TORNOS MV |
| 042.150 | 18 | 24 | 69 | 36° | 18x1 | 10 | TORNOS MS7-R10 MAGIC |
| 042.160 | 18 | 22 | 60 | 30° | 18x1 | 12.7 | TORNOS M10-R10-R125-MS7 / GIGY GL16 |



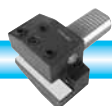


BUSSOLE GUIDA BARRA IN METALLO DURO REGISTRABILI (tirate)

HARD METAL ADJUSTABLE BUSHES (DRAW BACK)



| ART. (Code) | d | D | L | C | F | X max | macchine (machines) |
|-------------|----|----|------|-------|---------|-------|--|
| 042.170 | 18 | 22 | 60 | 30° | 16x1 | 12.7 | TORNOS M10-R10-R125-MS7 / BECHLER A-AR-AS 10 / MANURHIN TRAMINER 13 STROHM M-SJ 125K-M 105-125 / CITIZEN D10-L10-L101-F12 TSUGAMI NT-NP 11 / TORNOS-BECHLER ENC 16-162-164 |
| 042.180 | 20 | 25 | 55 | 30° | 20x1 | 13 | BECHLER A-AR-AS 10 / PETERMAN 10-10HS-PS127 / GAUTHIER 1H-GM75-GM127 STROHM 75-105-125 / TORNOS-BECHLER ENC 16-162-164 |
| 042.200 | 21 | 24 | 57.4 | 12.5° | 18x1 | 12 | STAR VNC12-SNC15DX-JNC16-RNC16 |
| 042.210 | 22 | 29 | 68 | 16° | 19x1 | 12 | TORNOS M14-M15-R16-M17 / PETERMAN 10R-10HSR / STAR VNC 12 MANURHIN TRAMITER 16-20 KMX 20-26-220-226 / STROHM 205-255 TSUGAMI NT-NP16-NT-NP17-MARK11 |
| 042.212 | 22 | 29 | 68 | 16° | 22x1 | | TRAUB TNL 16-16G / STROHM M-SJ 155K / NOMURA SN127-SN160-NN160C-D STAR SNC15DX-JNC16-RNC16-SST16-KIR16 |
| 042.220 | 24 | 30 | 61 | 30° | 24x1 | 16 | TORNOS M15-R16-M20-RR20 / TORNOS-BECHLER ENC 16-162-164 TOP100 PETERMAN P16 / CITIZEN E16-E16J-F16-G16-L16I-L16N-L16IV-L16VI-L16E TSUGAMI NT-NP16 NT-NP17 MARK11-BS12III / TORNOS DELTA 12 |
| 042.230 | 25 | 30 | 71 | 30° | 25x1 | 16 | TORNOS M14-M15-R16-M20-RR20 / PETERMAN 10R-10HSR / GAUTHIER GM15 BECHET RMA 12-RMA I 12-RMA 15-RMA I 15 |
| 042.240 | 27 | 30 | 57 | 13° | 24x1 | 16 | BECHLER BE 16-20 |
| 042.245 | 28 | 34 | 81 | 16° | 25x1 | 20 | STAR KNC16-VNC20-KNC20 / CITIZEN L20E-L20VI / TRAUB TNL16 |
| 042.246 | 28 | 38 | 81 | 30° | 25x1 | 20 | MANURHIN TRAMINER 20-KMX20-26-220-226 / GILDEMEISTER GLD 20 / TSUGAMI S20-NT-NP20-MARK11 / TORNOS DELTA 20 |
| 042.250 | 32 | 40 | 71 | 30° | 32x1 | 21 | TORNOS M20-RR20-M24-M25 / PETERMAN 2A-P16R-P20-2AR-P20R BECHET RMA19-RMA I 19 / GAUTHIER GM20 / CITIZEN D16-E20-F20 TSUGAMI NT-NP20 |
| 042.255 | 34 | 41 | 87.5 | 10° | 34x1 | 25 | MANURHIN KMX26-KMX226 / STAR SNC25DX-KJR25 / CITIZEN E25-F25 NOMURA NN20R-NN25R / TORNOS-BECHLER ENC 16-162-164 / GILDEMEISTER GLD 25 / TSUGAMI MORI B26III |
| 042.260 | 35 | 40 | 65 | 12° | 34x1 | 26 | BECHLER CR26 |
| 042.270 | 40 | 45 | 65 | 12° | 38x1 | 26 | BECHLER C26-32 |
| 042.280 | 40 | 48 | 71 | 30° | 40x1 | 26 | PETERMAN P25-P25R / BECHET RMA25-RMA I 25-RMA32-RMA I 32-TCN32 GAUTHIER GM20-GM25 |
| 042.290 | 40 | 48 | 65 | 30° | 40x1 | 26 | BECHLER B-BR12 B-BR16 B-BR20 |
| 042.300 | 40 | 48 | 72 | 30° | 36x1 | 25 | TORNOS-BECHLER ENC 262-264 TOP200 / GILDEMEISTER GAC 25L STROHM M205-255 SN25C |
| 042.302 | 41 | 46 | 54 | 10° | 38x1 | 32 | TSUGAMI MORI BS 32 |
| 042.305 | 42 | 49 | 81 | 16° | 40x1 | 32 | STAR JNC25-KNC32-JNC32-KNC32-VNC32 / CITIZEN E32 / GILDEMEISTER 32 TSUGAMI NT-NP32 NT-NP32 MARK11 / MIRABEL 321 MANURHIN |
| 042.310 | 43 | 48 | 65 | 12° | 42x1 | 32 | BECHLER CR 35 |
| 042.320 | 44 | 53 | 87 | 20° | 40x1 | 32 | TORNOS MR32 |
| 042.325 | 46 | 53 | 92 | 16° | 45x1 | 38 | NEXTURN SA 38E |
| 042.330 | 48 | 58 | 73 | 20° | 48x1.25 | 32 | TORNOS M25-M28-R28-MR32 / PETERMAN P25R |
| 042.340 | 48 | 56 | 81 | 30° | 48x1.25 | 32 | BECHLER C-CR26 C-CR32 |

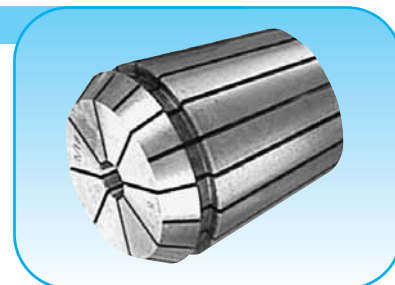
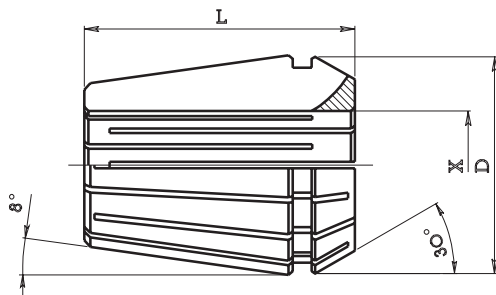




PINZE ERC AUTOESTRAIBILI Tipo 050

DIN 6499 B

ERC COLLETS



PINZE STANDARD (STANDARD COLLETS)

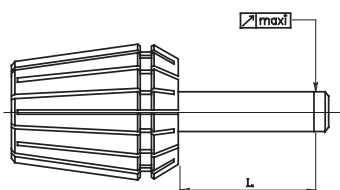
* Speciali (Special)

| Code | Type | | | Bores min - max | | Gripping Range | Collets for range |
|----------|--------|------|------|-----------------|-------|--------------------|-------------------|
| ART. | Tipo | D | L | X min | X max | Capacità serraggio | Pinze per serie |
| 050.008 | ERC 8 | 8.5 | 13.5 | 1.0 | 5.0 | 0.5 | 9 |
| 050.011 | ERC 11 | 11.5 | 18 | 1.0 | 7.0 | 0.5 | 13 |
| 050.011* | ERC 11 | 11,5 | 18 | 7.5 | 8.0 | 0.5 | 2 |
| 050.012 | ERC 12 | 12 | 20 | 1.0 | 7.0 | 0.5 | 13 |
| 050.016 | ERC 16 | 17 | 27 | 1.0 | 3.0 | 0.5 | 5 |
| 050.016 | ERC 16 | 17 | 27 | 4.0 | 10.0 | 1.0 | 7 |
| 050.016* | ERC 16 | 17 | 22 | 11.0 | 12.0 | 1.0 | 2 |
| 050.020 | ERC 20 | 21 | 31 | 1.0 | 3.0 | 0.5 | 5 |
| 050.020 | ERC 20 | 21 | 31 | 4.0 | 13.0 | 1.0 | 10 |
| 050.020* | ERC 20 | 21 | 24 | 14.0 | 15.0 | 1.0 | 2 |
| 050.025 | ERC 25 | 26 | 35 | 1.0 | 3.0 | 0.5 | 5 |
| 050.025 | ERC 25 | 26 | 35 | 4.0 | 16.0 | 1.0 | 13 |
| 050.025* | ERC 25 | 26 | 26 | 17.0 | 20.0 | 1.0 | 4 |
| 050.032 | ERC 32 | 33 | 40 | 2.5 | 3.0 | 0.5 | 2 |
| 050.032 | ERC 32 | 33 | 40 | 4.0 | 20.0 | 1.0 | 17 |
| 050.032* | ERC 32 | 33 | 33 | 21.0 | 25.0 | 1.0 | 5 |
| 050.040 | ERC 40 | 41 | 46 | 3.0 | 30.0 | 1.0 | 28 |
| 050.050 | ERC 50 | 52 | 60 | 6.0 | 34.0 | 1.0 | 29 |

PINZE ALTA PRECISIONE (HIGH PRECISION COLLETS)

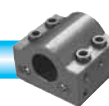
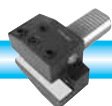
| Code | Type | | | Bores min - max | | Gripping Range | Collets for range |
|----------|--------|------|------|-----------------|-------|--------------------|-------------------|
| ART. | Tipo | D | L | X min | X max | Capacità serraggio | Pinze per serie |
| 050.008P | ERC 8 | 8.5 | 13.5 | 1.0 | 5.0 | 0.5 | 9 |
| 050.011P | ERC 11 | 11.5 | 18 | 1.0 | 7.0 | 0.5 | 13 |
| 050.012P | ERC 12 | 12 | 20 | 1.0 | 7.0 | 0.5 | 13 |
| 050.016P | ERC 16 | 17 | 27 | 1.0 | 3.0 | 0.5 | 5 |
| 050.016P | ERC 16 | 17 | 27 | 4.0 | 10.0 | 1.0 | 7 |
| 050.020P | ERC 20 | 21 | 31 | 1.0 | 3.0 | 0.5 | 5 |
| 050.020P | ERC 20 | 21 | 31 | 4.0 | 13.0 | 1.0 | 10 |
| 050.025P | ERC 25 | 26 | 35 | 1.0 | 3.0 | 0.5 | 5 |
| 050.025P | ERC 25 | 26 | 35 | 4.0 | 16.0 | 1.0 | 13 |
| 050.032P | ERC 32 | 33 | 40 | 2.5 | 3.0 | 0.5 | 2 |
| 050.032P | ERC 32 | 33 | 40 | 4.0 | 20.0 | 1.0 | 17 |
| 050.040P | ERC 40 | 41 | 46 | 3.0 | 26.0 | 1.0 | 28 |

PROVA DI CONCENTRICITÀ
ROTATIONARY CONCENTRICITY TEST



| Alesaggio D (Bores) | | L | Limite max di concentricità (*) (max concentricity limit) | |
|---------------------|-----|----|---|--|
| Min | Max | | Pinze standard (Standard collets) | Pinze alta precisione (High precision collets) |
| 1 | 1,6 | 6 | 0,015 | 0,010 |
| 1,6 | 3 | 10 | 0,015 | 0,010 |
| 3 | 7 | 16 | 0,015 | 0,010 |
| 7 | 10 | 25 | 0,015 | 0,010 |
| 10 | 18 | 40 | 0,020 | 0,015 |
| 18 | 26 | 50 | 0,020 | 0,015 |
| 26 | 40 | 60 | 0,020 | 0,015 |

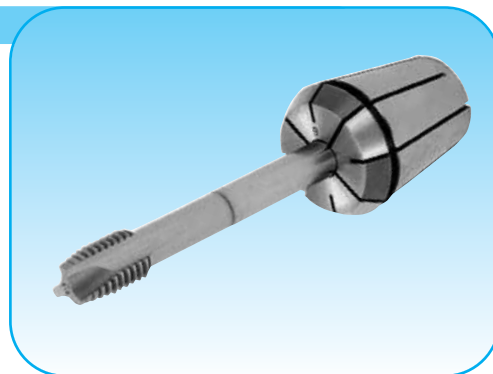
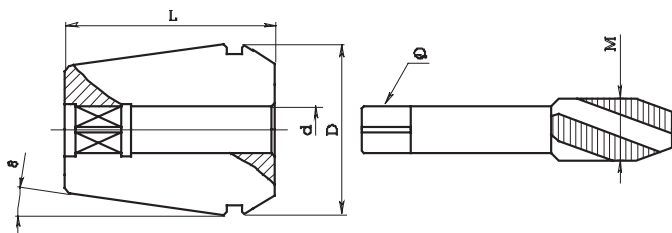
(*) Valori validi solo per il diametro nominale delle pinze.
(*) The tolerances are valid only for nominal diameter of the collets.





PINZE ERC PORTAMASCHI CON QUADRO

TAPPING COLLETS WITH INTERNAL SQUARE



| Tipo (type) ERC 16 D=21 L=31 | | | |
|------------------------------|-----|-------------------|--------|
| ART. (Code) | d | quadro Q (square) | M |
| 050.016M D0350 | 3.5 | 2.7 | M3 |
| 050.016M D0400 | 4 | 3 | M3.5 |
| 050.016M D0450 | 4.5 | 3.4 | M4 |
| 050.016M D0500 | 5 | 4 | M4 |
| 050.016M D0550 | 5.5 | 4.3 | M5 |
| 050.016M D0600 | 6 | 4.9 | M5-6-8 |
| 050.016M D0630 | 6.3 | 5 | M6-8 |
| 050.016M D0700 | 7 | 5.5 | M10 |
| 050.016M D0800 | 8 | 6.2 | M8 |

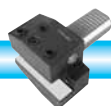
| Tipo (type) ERC 20 D=21 L=31 | | | |
|------------------------------|-----|-------------------|--------|
| ART. (Code) | d | quadro Q (square) | M |
| 050.020M D0350 | 3.5 | 2.7 | M3 |
| 050.020M D0400 | 4 | 3 | M3.5 |
| 050.020M D0450 | 4.5 | 3.4 | M4 |
| 050.020M D0500 | 5 | 4 | M4 |
| 050.020M D0550 | 5.5 | 4.3 | M5 |
| 050.020M D0600 | 6 | 4.9 | M5-6-8 |
| 050.020M D0630 | 6.3 | 5 | M6-8 |
| 050.020M D0700 | 7 | 5.5 | M10 |
| 050.020M D0800 | 8 | 6.2 | M8 |
| 050.020M D0900 | 9 | 7 | M12 |
| 050.020M D1000 | 10 | 8 | M10 |

| Tipo (type) ERC 25 D=21 L=31 | | | |
|------------------------------|------|-------------------|--------|
| ART. (Code) | d | quadro Q (square) | M |
| 050.025M D0350 | 3.5 | 2.7 | M3 |
| 050.025M D0400 | 4 | 3 | M3.5 |
| 050.025M D0450 | 4.5 | 3.4 | M4 |
| 050.025M D0500 | 5 | 4 | M4 |
| 050.025M D0550 | 5.5 | 4.3 | M5 |
| 050.025M D0600 | 6 | 4.9 | M5-6-8 |
| 050.025M D0630 | 6.3 | 5 | M6-8 |
| 050.025M D0700 | 7 | 5.5 | M10 |
| 050.025M D0800 | 8 | 6.2 | M8 |
| 050.025M D0900 | 9 | 7 | M12 |
| 050.025M D1000 | 10 | 8 | M10 |
| 050.025M D1100 | 11 | 9 | M14 |
| 050.025M D1120 | 11.2 | 9 | M14 |
| 050.025M D1200 | 12 | 9 | M16 |

| Tipo (type) ERC 32 D=33 L=40 | | | |
|------------------------------|------|-------------------|--------|
| ART. (Code) | d | quadro Q (square) | M |
| 050.032M D0350 | 3.5 | 2.7 | M3 |
| 050.032M D0400 | 4 | 3 | M3.5 |
| 050.032M D0450 | 4.5 | 3.4 | M4 |
| 050.032M D0500 | 5 | 4 | M4 |
| 050.032M D0550 | 5.5 | 4.3 | M5 |
| 050.032M D0600 | 6 | 4.9 | M5-6-8 |
| 050.032M D0630 | 6.3 | 5 | M6-8 |
| 050.032M D0700 | 7 | 5.5 | M10 |
| 050.032M D0800 | 8 | 6.2 | M8 |
| 050.032M D0900 | 9 | 7 | M12 |
| 050.032M D1000 | 10 | 8 | M10 |
| 050.032M D1100 | 11 | 9 | M14 |
| 050.032M D1120 | 11.2 | 9 | M14 |
| 050.032M D1200 | 12 | 9 | M16 |
| 050.032M D1250 | 12.5 | 10 | M16 |
| 050.032M D1400 | 14 | 11 | M18 |
| 050.032M D1600 | 16 | 12 | M20 |

| Tipo (type) ERC 40 D=41 L=46 | | | |
|------------------------------|----|-------------------|--------|
| ART. (Code) | d | quadro Q (square) | M |
| 050.040M D0600 | 6 | 4.9 | M5-6-8 |
| 050.040M D0700 | 7 | 5.5 | M10 |
| 050.040M D0800 | 8 | 6.2 | M8 |
| 050.040M D0900 | 9 | 7 | M12 |
| 050.040M D1000 | 10 | 8 | M10 |
| 050.040M D1100 | 11 | 9 | M14 |
| 050.040M D1200 | 12 | 9 | M16 |
| 050.040M D1400 | 14 | 11 | M18 |
| 050.040M D1600 | 16 | 12 | M20 |
| 050.040M D1800 | 18 | 14.5 | M24 |
| 050.040M D2000 | 20 | 16 | M27 |

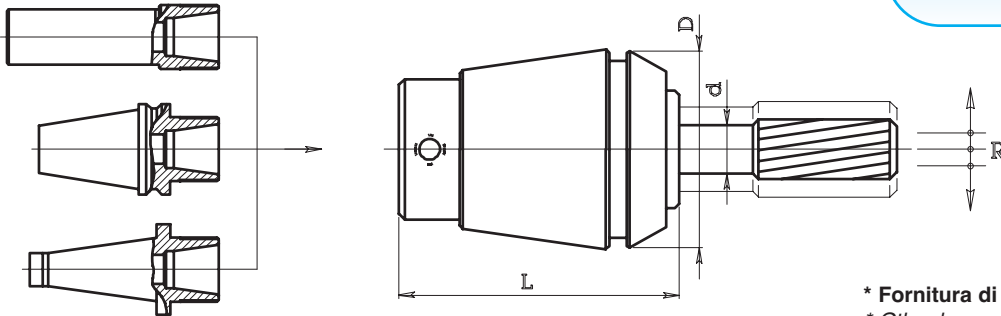
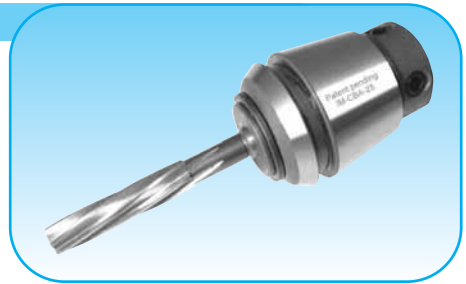
| Tipo (type) ERC 50 D=52 L=60 | | | |
|------------------------------|----|-------------------|--------|
| ART. (Code) | d | quadro Q (square) | M |
| 050.050M D0800 | 8 | 6.2 | M8 |
| 050.050M D0900 | 9 | 7 | M12 |
| 050.050M D1000 | 10 | 8 | M10 |
| 050.050M D1100 | 11 | 9 | M14 |
| 050.050M D1200 | 12 | 9 | M16 |
| 050.050M D1400 | 14 | 11 | M18 |
| 050.050M D1600 | 16 | 12 | M20 |
| 050.050M D1800 | 18 | 14.5 | M24 |
| 050.050M D2000 | 20 | 16 | M27 |
| 050.050M D2200 | 22 | 18 | M30 |
| 050.050M D2500 | 25 | 20 | M33 |
| 050.050M D2800 | 28 | 22 | M36 |
| 050.050M D3200 | 32 | 24 | M39-42 |





PINZE CBA PER ALESATURA E MASCHIATURA RIGIDA DIN 6499 B
REAMER AND SYNCHRONIZED TAP COLLETS

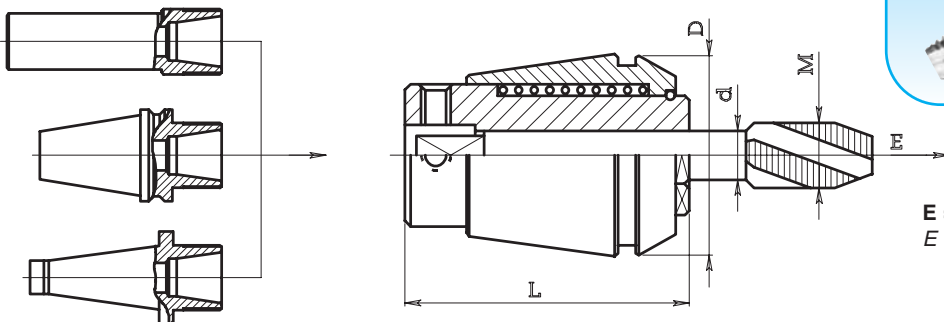
BREVETTATA
PATENTED



* Fornitura di altri alesaggi su richiesta
* Other bores providing on request

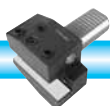
| Code | Seat | | | | bores * | |
|-----------|--------|----|----|--|---------|-----|
| ART. | sede | D | L | alesaggi d * | | R |
| IM-CBA-16 | ERC 16 | 17 | 29 | 2 - 3 - 4 - 5 - 6 - 7 | | 0.5 |
| IM-CBA-20 | ERC 20 | 21 | 32 | 3 - 4 - 5 - 6 - 7 - 8 | | 0.5 |
| IM-CBA-25 | ERC 25 | 26 | 35 | 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 | | 0.5 |
| IM-CBA-32 | ERC 32 | 33 | 44 | 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 | | 0.5 |
| IM-CBA-40 | ERC 40 | 41 | 56 | 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 | | 0.5 |

PINZE PORTAMASCHI CON ESTRAZIONE Tipo ZM 050 DIN 6499 B
TAP COLLETS WITH EXTENSION



E = corsa di estrazione
E = Extension stroke

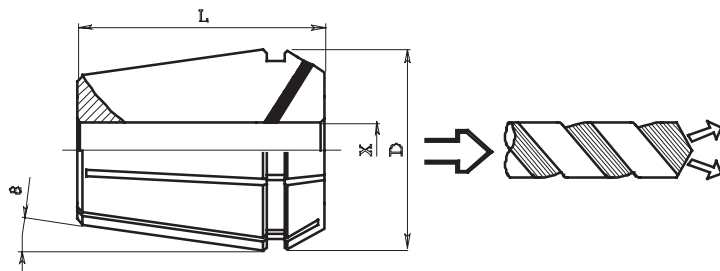
| Code | Seat | | | | Tap capacity | bores | |
|------------|--------|----|----|------------------------|--|-------|--|
| ART. | sede | D | L | capacità maschiatura M | alesaggi d | E | |
| 050.016 ZM | ERC 16 | 17 | 27 | M1-M6 | 1.4 - 1.6 - 1.8 - 2 - 2.2 - 2.5 - 2.8 - 3 - 3.15 - 3.5 - 3.55 - 4 - 4.5 - 5 - 5.5 - 6 | 7 | |
| 050.020 ZM | ERC 20 | 21 | 31 | M1-M8 | 2.2 - 2.5 - 2.8 - 3 - 3.15 - 3.5 - 3.55 - 4 - 4.5 - 5 - 5.5 - 5.6 - 6 - 6.2 - 7 - 8 | 7 | |
| 050.025 ZM | ERC 25 | 26 | 34 | M3.5-M10 (M12) | 2.5 - 2.8 - 3 - 3.15 - 3.5 - 3.55 - 4 - 4.5 - 5 - 5.5 - 5.6 - 6 - 6.2 - 6.3 - 7 - 8 - 8.5 - 9 - 10 | 8 | |
| 050.032 ZM | ERC 32 | 33 | 43 | M4-M12 (M16) | 4.5 - 5 - 5.5 - 5.6 - 6 - 6.2 - 6.3 - 7 - 8 - 8.5 - 9 - 10 - 10.5 - 11 - 11.2 - 12 - 12.5 | 10 | |
| 050.040 ZM | ERC 40 | 41 | 54 | M6-M16 (M20) | 6 - 6.2 - 6.3 - 7 - 8 - 8.5 - 9 - 10 - 10.5 - 11 - 11.2 - 12 - 12.5 - 14 - 15 - 16 | 13 | |





PINZE ERC CON TENUTA PER REFRIGERAZIONE INTERNA DIN 6499

SEALED COLLETS FOR COOLANT THROUGH TOOLS



MAX: 70 bar - 1000 p.s.i.



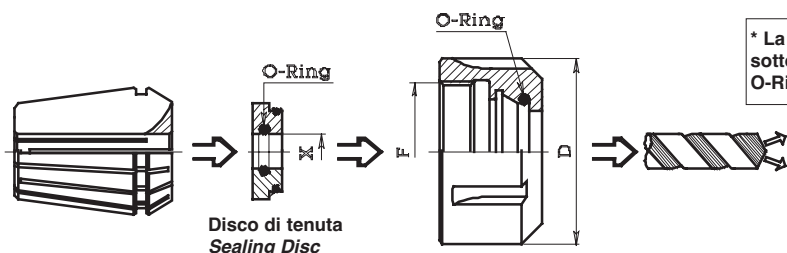
Gli inserti in neoprene, inseriti nei tagli della pinza, consentono l'uscita del refrigerante negli utensili con fori di lubrificazione.
The rubber seal in 30° taper, contain and direct the coolant only through the shank of cutting tools with holes.

| Code | Type | | | Bores min - max* | | Colles for range | |
|----------|--------|------|----|------------------|--------|------------------|-----------------|
| ART. | Tipo | D | L | X min* | X max* | progressione | Pinze per serie |
| 050.011R | ERC 11 | 11.5 | 18 | 3 | 7 | 0.5 | 9 |
| 050.016R | ERC 16 | 17 | 27 | 3 | 10 | 0.5 | 15 |
| 050.020R | ERC 20 | 21 | 31 | 3 | 13 | 0.5 | 21 |
| 050.025R | ERC 25 | 26 | 35 | 3,5 | 16 | 0.5 | 27 |
| 050.032R | ERC 32 | 33 | 40 | 4 | 20 | 0.5 | 35 |
| 050.040R | ERC 40 | 41 | 46 | 4 | 26 | 0.5 | 45 |

* Le pinze ERC 050-R bloccano solo il diametro nominale.
The ERC 050-R collets hold the nominal size only.

GHIERE ERC CON TENUTA PER REFRIGERAZIONE INTERNA DIN 6499

SEALED NUTS FOR COOLANT THROUGH TOOLS



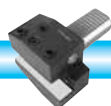
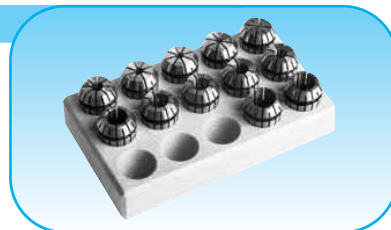
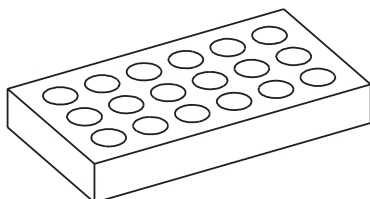
* La capacità di tenuta garantita dal "O-Ring" è pari a 0,5 mm al di sotto del diametro nominale "X".
O-Ring seal contain the coolant 0,5 mm under the "X" diameter.

| Code nut | Type | | Thread | Wrench | Code Sealing Disc | Bores min - max* | | progression |
|-------------|--------|----|--------|---------|----------------------|------------------|--------|--------------|
| ART. Ghiera | Tipo | D | F | Chiave | ART. Disco di tenuta | X min* | X max* | progressione |
| 052.216R | ERC 16 | 28 | 22x1.5 | 053.216 | 052.216RD | 4 | 10 | 0.5 |
| 052.220R | ERC 20 | 34 | 25x1.5 | 053.220 | 052.220RD | 4 | 13 | 0.5 |
| 052.325R | ERC 25 | 42 | 32x1.5 | 053.325 | 052.325RD | 3.5 | 16 | 0.5 |
| 052.332R | ERC 32 | 50 | 40x1.5 | 053.332 | 052.332RD | 3.5 | 20 | 0.5 |
| 052.340R | ERC 40 | 63 | 50x1.5 | 053.340 | 052.340RD | 4 | 26 | 0.5 |

CONTENITORI PER PINZE ERC

ERC COLLETS RACKS

| Code | Collet | collets seats |
|-----------|--------|---------------|
| ART. | Pinza | n. sedi |
| 050.108 B | ERC 8 | 10 |
| 050.111 B | ERC 11 | 14 |
| 050.112 B | ERC 12 | 14 |
| 050.116 B | ERC 16 | 15 |
| 050.120 B | ERC 20 | 15 |
| 050.125 B | ERC 25 | 20 |
| 050.132 B | ERC 32 | 20 |
| 050.140 B | ERC 40 | 30 |





GHIERE DI SERRAGGIO PER PINZE Tipo 052

CLAMPING NUTS FOR ERC COLLETS

GHIERE MINI (MINI CLAMPING NUTS) Fig. 1

| Code | Type | | | Thread |
|---------|--------|----|----|---------|
| ART. | Tipo | D | H | F |
| 052.108 | ERC 8 | 12 | 11 | 10x0.75 |
| 052.111 | ERC 11 | 16 | 11 | 13x0.75 |
| 052.116 | ERC 16 | 22 | 17 | 19x1 |
| 052.120 | ERC 20 | 28 | 19 | 24x1 |
| 052.125 | ERC 25 | 35 | 20 | 30x1 |

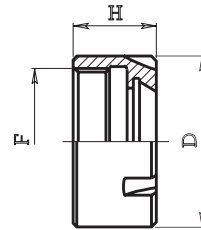


Fig. 1



GHIERE ESAGONALI (HEXAGONAL CLAMPING NUTS) Fig. 2

| Code | Type | | | Thread |
|-----------|--------|------|----|---------|
| ART. | Tipo | D | H | F |
| 052.208 B | ERC 8 | 13.5 | 11 | 10x0.75 |
| 052.211 | ERC 11 | 19 | 11 | 14x0.75 |
| 052.216 | ERC 16 | 28 | 17 | 22x1.5 |
| 052.220 | ERC 20 | 34 | 19 | 25x1.5 |

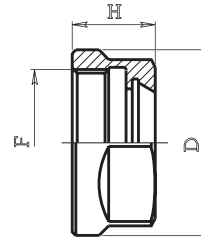


Fig. 2



GHIERE STANDARD (STANDARD CLAMPING NUTS) Fig. 3

| Code | Type | | | Thread |
|---------|--------|----|------|--------|
| ART. | Tipo | D | H | F |
| 052.316 | ERC 16 | 32 | 17.5 | 22x1.5 |
| 052.320 | ERC 20 | 35 | 19 | 25x1.5 |
| 052.325 | ERC 25 | 42 | 20 | 32x1.5 |
| 052.332 | ERC 32 | 50 | 22 | 40x1.5 |
| 052.340 | ERC 40 | 63 | 25 | 50x1.5 |
| 052.350 | ERC 50 | 78 | 35 | 64x2 |

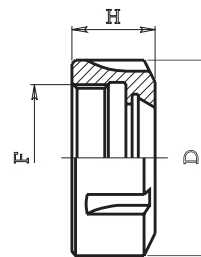


Fig. 3



GHIERE FILETTO ESTERNO (EXTERNAL THREAD NUTS) Fig. 4

| Code | Type | | | Thread |
|------------|--------|-----|------|--------|
| ART. | Tipo | D | H | F |
| 052.411 | ERC 11 | ... | 6 | 18x1 |
| 052.411 B* | ERC 11 | ... | 9 | 18x1 |
| 052.416 | ERC 16 | ... | 8 | 24x1 |
| 052.416 B* | ERC 16 | ... | 12 | 24x1 |
| 052.420 | ERC 20 | ... | 11 | 28x1.5 |
| 052.420 B* | ERC 20 | ... | 13 | 28x1.5 |
| 052.425 | ERC 25 | ... | 12.5 | 32x1.5 |
| 052.425 B* | ERC 25 | ... | 16.5 | 32x1.5 |
| 052.432 | ERC 32 | ... | 14 | 40x1.5 |
| 052.432 B* | ERC 32 | ... | 19 | 40x1.5 |
| 052.440 B* | ERC 40 | ... | 17 | 50x1.5 |

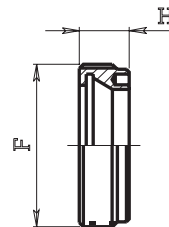


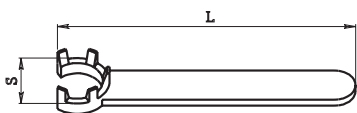
Fig. 4



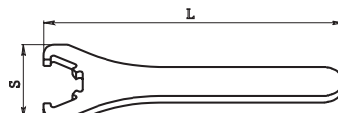
* Per chiave esagonale - * For hexagonal wrenches

CHIAVI PER GHIERE Tipo 053

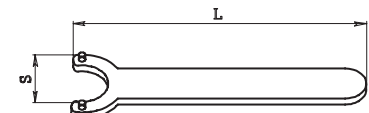
WRENCHES FOR CLAMPING NUTS



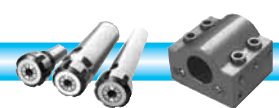
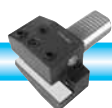
| Code | | | For Nut Code |
|---------|----|-----|-----------------|
| ART. | S | L | per ghiera art. |
| 053.108 | 12 | 80 | 052.108 |
| 053.111 | 16 | 96 | 052.111 |
| 053.116 | 22 | 118 | 052.116 |
| 053.120 | 28 | 130 | 052.120 |
| 053.125 | 35 | 132 | 052.125 |



| Code | | | For Nut Code |
|---------|-----|-----|-----------------|
| ART. | S | L | per ghiera art. |
| 053.316 | 50 | 160 | 052.316 |
| 053.320 | 57 | 180 | 052.320 |
| 053.325 | 65 | 210 | 052.325 |
| 053.332 | 75 | 250 | 052.332 |
| 053.340 | 90 | 290 | 052.340 |
| 053.350 | 110 | 350 | 052.350 |



| Code | | | For Nut Code |
|---------|------|-----|-----------------|
| ART. | S | L | per ghiera art. |
| 053.420 | 20.5 | 160 | 052.420 |
| 053.425 | 23.5 | 180 | 052.425 |
| 053.432 | 32 | 200 | 052.432 |





MORSE PNEUMATICHE MODULARI Tipo 772

MODULAR PNEUMATIC CHUCKING DEVICES

CARATTERISTICHE:

- Le morse tipo 772 sono studiate con un sistema pneumatico a doppio effetto con moltiplicatore di potenza a levette che consente di ottenere un'elevata forza di chiusura del pezzo nonostante le dimensioni di ingombro siano assai inferiori rispetto alle morse pneumatiche standard.
- Sia la chiusura che l'apertura della pinza sono pneumatiche senza utilizzo di molle per il ritorno del canotto.
- I piani di appoggio per il fissaggio verticale e orizzontale ed il sistema di chiusura della pinza sono completamente rettificati e garantiscono una linearità della chiusura del pezzo < 0,02.
- Il sistema di chiusura pinza è costruito con acciaio da cementazione altamente legato, temperato e rinvenuto con durezza 58 ± 2 HRC.

PROPRIETÀ:

- Le caratteristiche della morsa la rendono idonea sia per l'utilizzo singolo su macchine tradizionali (fig. 1) che per un utilizzo in serie su centri di lavoro (fig. 2 e fig. 3).

FORNITURA:

- La fornitura "standard" comprende le due staffe per il fissaggio singolo (fig. 1).
- Su richiesta vengono fornite le staffe intermedie per il fissaggio in serie:
 - per morse pneumatiche 772015, 772020 e 772115: art. 772116,
 - per morse pneumatiche 772025, 772125 e 772142: art. 772146.
- Sempre su richiesta può essere costruita una piastra di fissaggio per l'utilizzo in blocco (fig. 3).

SPECIFICATION:

- Vices type 772 are designed with a double-acting pneumatic system and have a power multiplier with levers, enabling high piece closing force, although the overall dimensions are considerably smaller than standard pneumatic vices.
- The collet is both closed and opened pneumatically, without using springs for sleeve return.
- The support tops for vertical and horizontal fastening and the collet closing system are fully ground and guarantee piece closing linearity of < 0.02.
- The collet closing system is built in highly alloyed case hardening steel, hardened and tempered to 58 ± 2 HRC.

CHARACTERISTICS:

- The vice's characteristics make it suitable both for single use on traditional machines (fig. 1) and for multiple production in machining centres (fig. 2 and fig. 3).

SUPPLY:

- The standard supply includes two brackets for single securing (fig. 1).
- Intermediate brackets for multiple securing can be supplied on request (fig. 2):
 - for pneumatic vices 772015, 772020 and 772115: code 772116.
 - for pneumatic vices 772025, 772125 and 772142: code 772146.
- A securing plate for en-bloc use can be built on request (fig. 3).

ESEMPI DI FISSAGGIO / FIXING EXAMPLES

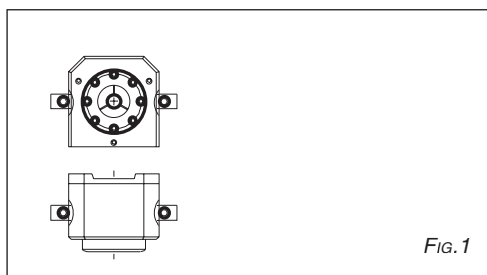


Fig. 1

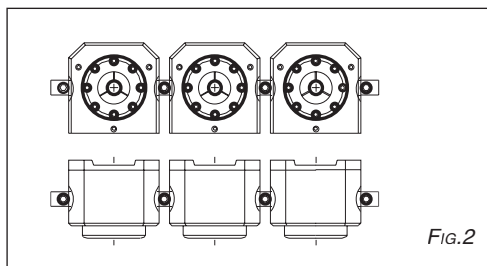


Fig. 2

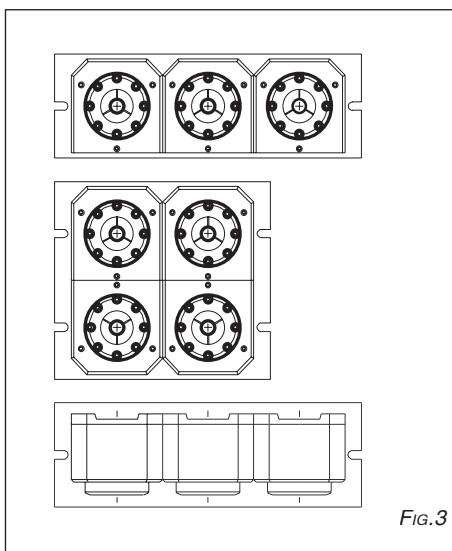
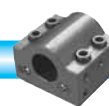
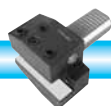
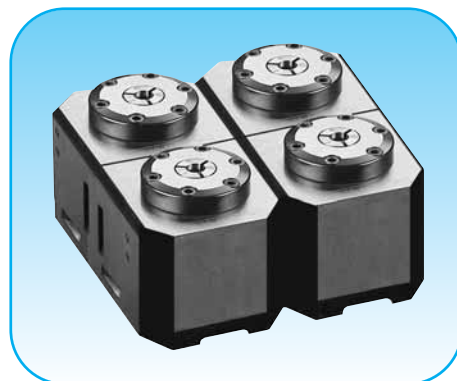
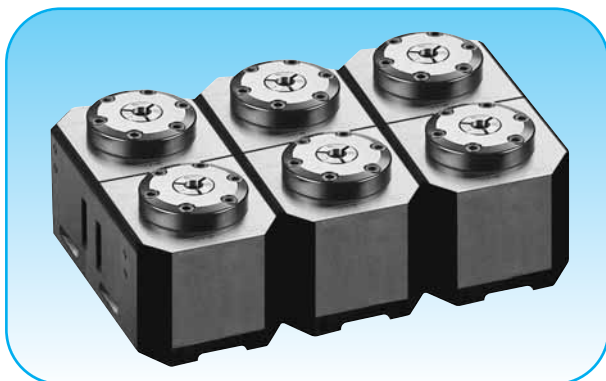


FIG. 3

Fig. 1 Morsa fissata singolarmente
Single fixed chucking device

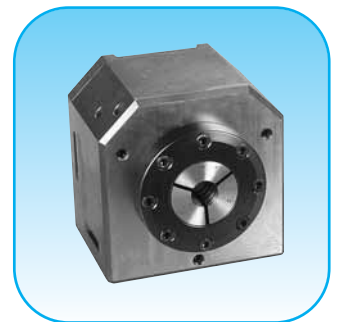
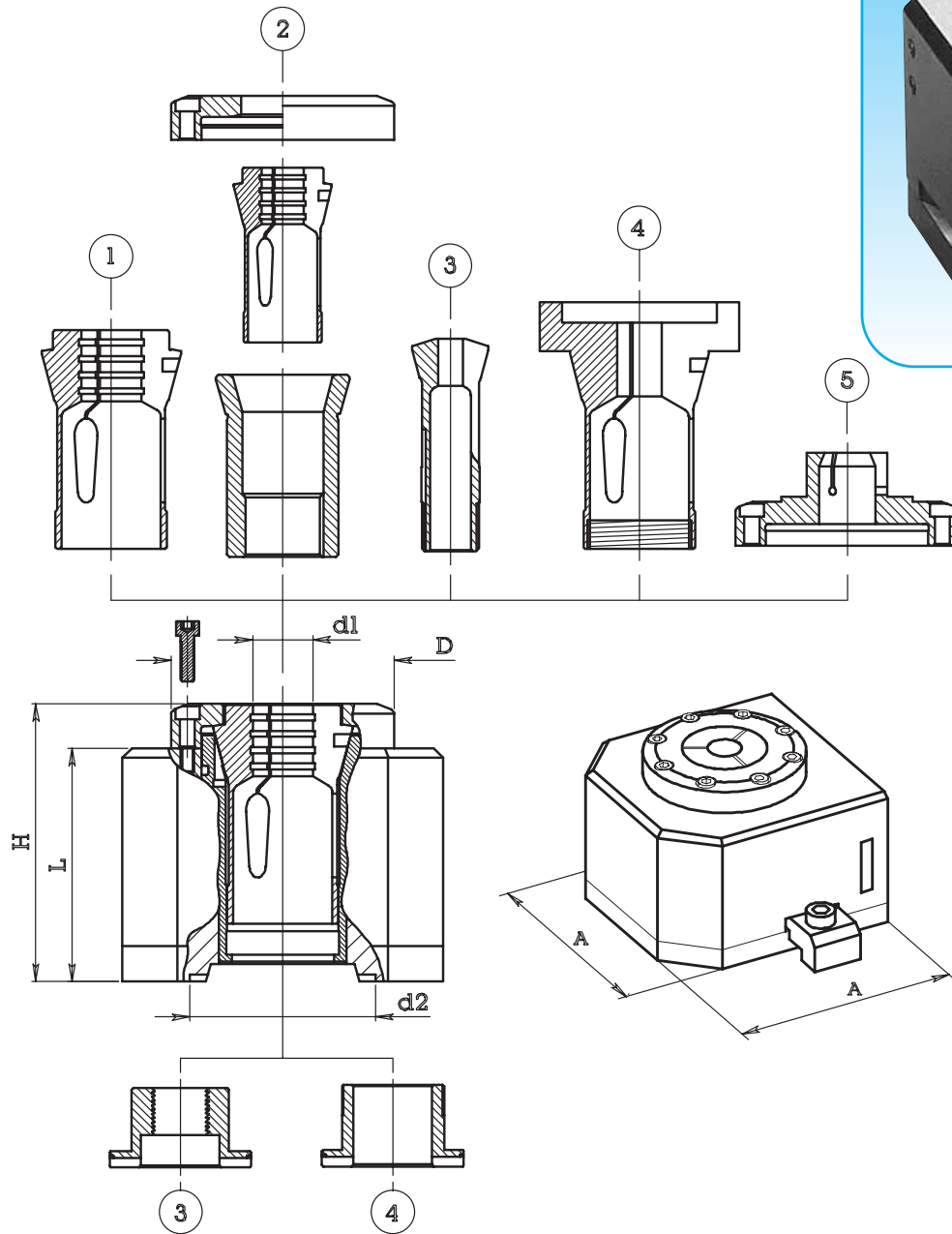
Fig. 2 Morse fissate in serie
In series fixed chucking device

Fig. 3 Morse fissate in blocco
utilizzando piastra di attacco
con dimensioni a richiesta
Chucking devices fix in block



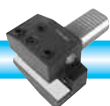


MORSE PNEUMATICHE MODULARI Tipo 772
MODULAR PNEUMATIC CHUCKING DEVICES



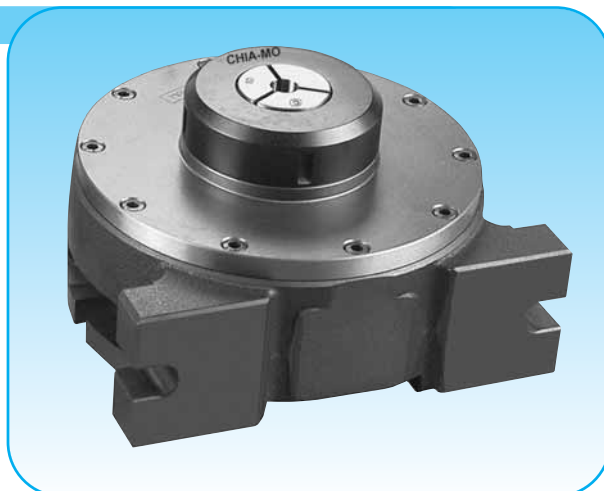
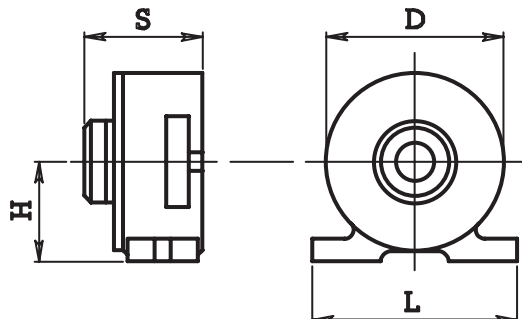
| DIMENSIONI - Dimensions | | | | | | | | | |
|-------------------------|---------|---|-----|-----|------|----|----|--------|-------------|
| | Code | | | | | | | collet | collet code |
| | ART. | A | L | H | d1 | d2 | D | Pinza | Art. Pinza |
| ① | 772.015 | 85x85 | 70 | 82 | 2-12 | 42 | 58 | 120E | 010.029 |
| ① | 772.115 | 85x85 | 70 | 82 | 2-18 | 42 | 58 | 140E | 010.051 |
| ② | 772.125 | 140x140 | 100 | 119 | 2-26 | 80 | 96 | 161E | 010.084 |
| ① | 772.142 | 140x140 | 100 | 119 | 4-42 | 80 | 96 | 173E | 010.117 |
| ③ | 772.020 | 85x85 | 70 | 82 | 1-20 | 42 | - | W20 | 018.028 |
| ③ | 772.025 | 140x140 | 100 | 119 | 2-25 | 80 | - | W25 | 018.048 |
| ③ | 772.031 | 140x140 | 100 | 119 | 2-31 | 80 | - | W31,75 | - |
| ④ | | Pinza tirata speciale a richiesta - Special draw back collet on request | | | | | | | |
| ⑤ | | Pinza ad espansione a richiesta - Expansion collet on request | | | | | | | |

| POTENZA IN KN Power in KN | | | |
|------------------------------|---------|----------|------------------|
| a 6 bar | a 8 bar | a 10 bar | MAX 10 BAR |
| 5 KN | 7 KN | 9 KN | |
| 5 KN | 7 KN | 9 KN | |
| 12 KN | 16 KN | 20 KN | |
| 12 KN | 16 KN | 20 KN | |
| 5 KN | 7 KN | 9 KN | |
| 12 KN | 16 KN | 20 KN | |
| 12 KN | 16 KN | 20 KN | |





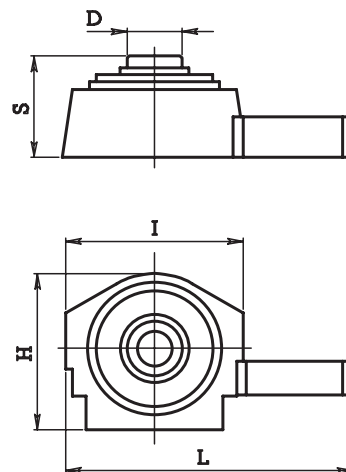
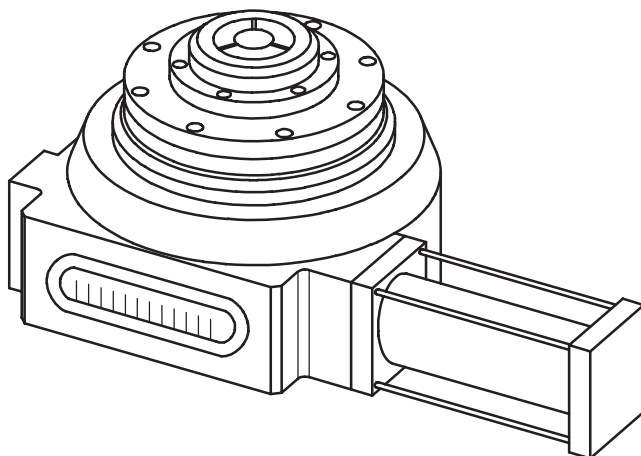
MORSE PNEUMATICHE Tipo 771
PNEUMATIC CHUCKING DEVICES



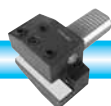
| DIMENSIONI - Dimensions | | | | | | | |
|-------------------------|-----|-----|----|-----|----------|--------|-------------|
| Code | | | | | bores | collet | collet code |
| ART. | D | L | H | S | Alesaggi | Pinza | Art. Pinza |
| 771.125 | 152 | 170 | 77 | 97 | 2 - 26 | 161E | 010.084 |
| 771.142 | 165 | 180 | 85 | 117 | 4 - 42 | 173E | 010.117 |

| POTENZA IN KN Power in KN | | | |
|------------------------------|---------|----------|------------------|
| a 6 bar | a 8 bar | a 10 bar | MAX 10 BAR |
| 5 KN | 7 KN | 9 KN | |
| 6 KN | 8 KN | 10 KN | |

DIVISORI AUTOMATICI Tipo Z 775
INDEXING PNEUMATIC CHUCKING DEVICES



| Code | | | | | | collet | collet code |
|-----------|-----|-----|-----|----|-----|--------|-------------|
| ART. | I | H | L | D | S | Pinza | per pinza |
| Z 775.115 | 198 | 160 | 290 | 55 | 108 | 140E | 010.051 |
| Z 775.142 | 260 | 230 | 420 | 80 | 150 | 173E | 010.117 |



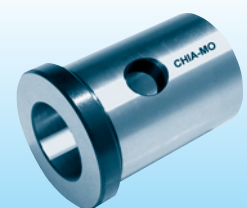
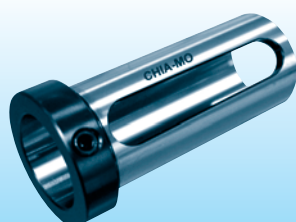
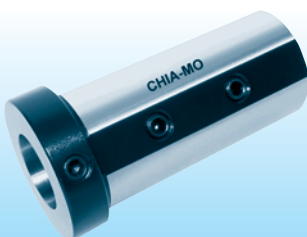
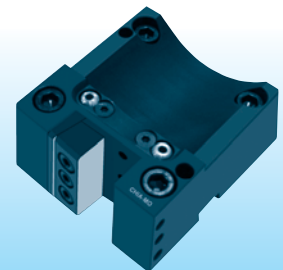
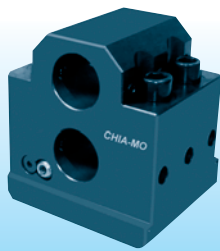
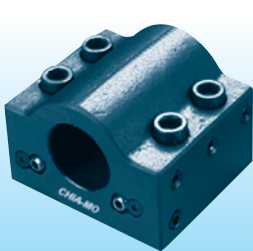


CHIA-MO

BOLOGNA - ITALY



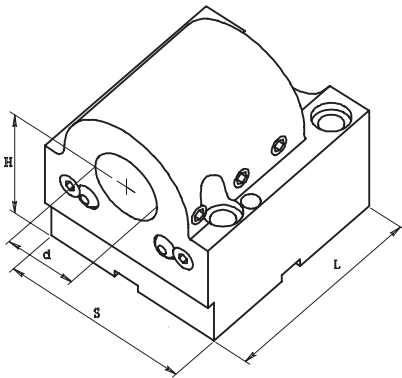
P. utensili per torni CNC - Bussole porta bareni
CNC LATHE TOOLHOLDERS - BORING BAR SLEEVES





TORNI MORI SEIKI / NL / NT
MORI SEIKI LATHES / NL / NT

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



| Code | Mori Seiki code | | | | |
|----------------|-----------------|----|-----|-----|-----|
| ART. | Cod. Mori Seiki | d | H | S | L |
| 7M8.C40 | T10097 | 40 | 80 | 108 | 130 |
| 7M8.C40 R | T13128 | 40 | 80 | 108 | 130 |
| 7M8.C40 H120 | T10113 | 40 | 120 | 108 | 130 |
| 7M8.C40 R H120 | T13131 | 40 | 120 | 108 | 130 |
| 7M8.C50 | T10098 | 50 | 80 | 108 | 130 |
| 7M8.C50 H120 | T10114 | 50 | 120 | 108 | 130 |

Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

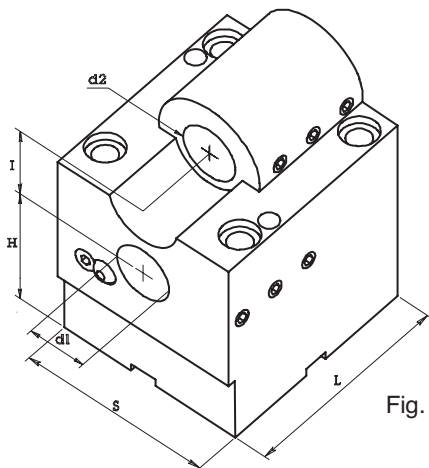


Fig. 1

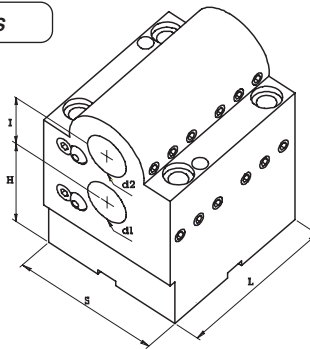
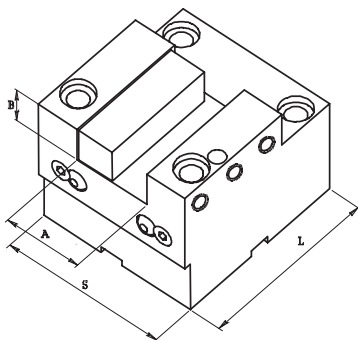
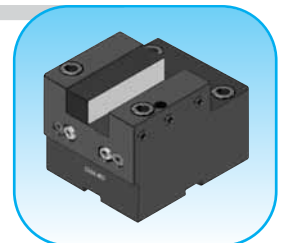


Fig. 2

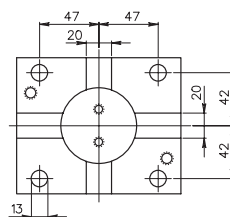
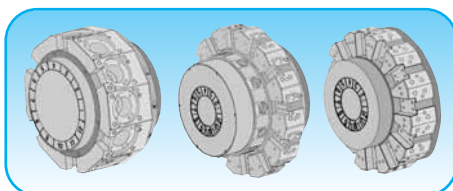
Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

| Code | Mori Seiki code | | | | | | |
|-----------|-----------------|-------|----|----|-----|-----|------|
| ART. | Cod. Mori Seiki | d1-d2 | H | I | S | L | Fig. |
| 7M8.D32 | T10096 | 32 | 80 | 45 | 108 | 130 | 1 |
| 7M8.D32 L | — | 32 | 80 | 45 | 108 | 130 | 2 |

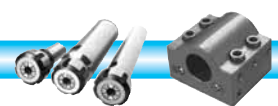
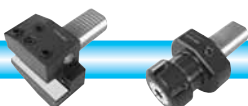
PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



| Code | Mori Seiki code | | | | |
|---------|-----------------|----|----|-----|-----|
| ART. | Cod. Mori Seiki | A | B | S | L |
| 8M8.C40 | T03006 | 40 | 20 | 108 | 130 |
| 8M8.C50 | T03005 | 50 | 25 | 108 | 130 |



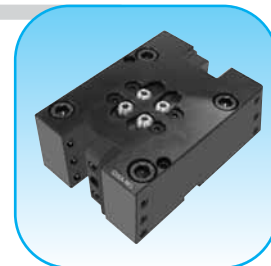
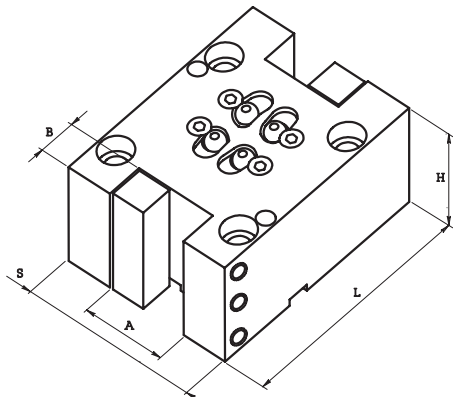
INTERASSE FORI IN PORTAUTENSILI
DISTANCE BETWEEN HOLES IN TOOLHOLDERS





TORNI MORI SEIKI / NL / NT
MORI SEIKI LATHES / NL / NT

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | Mori Seiki code | | | | |
|---------|-----------------|----|----|-----|-----|
| ART. | Cod. Mori Seiki | A | B | S | L |
| 8M8.D40 | T00185 | 40 | 20 | 108 | 150 |
| 8M8.D50 | T00184 | 50 | 25 | 108 | 160 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS

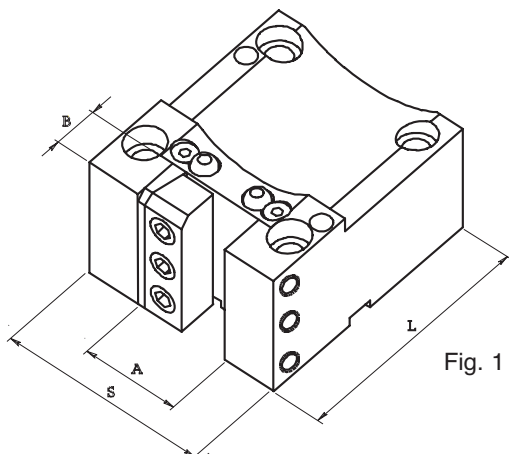


Fig. 1

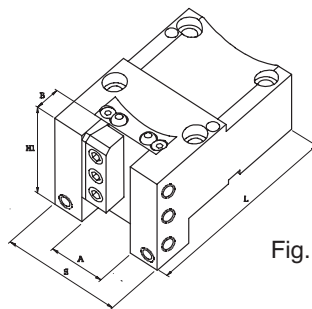
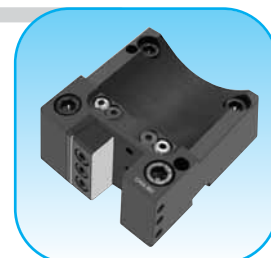
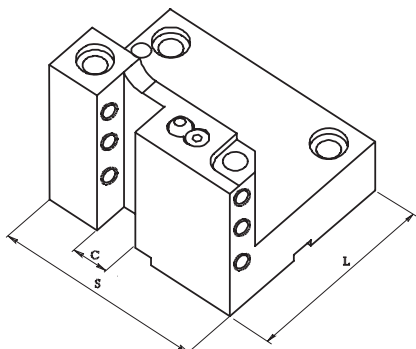


Fig. 2

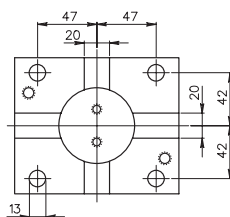
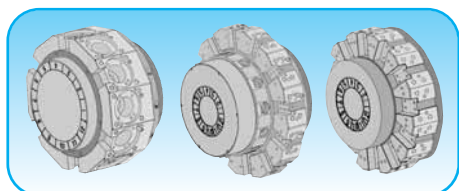


| Code | Mori Seiki code | | | | | | |
|-----------|-----------------|----|----|-----|-----|----|------|
| ART. | Cod. Mori Seiki | A | B | S | L | H1 | Fig. |
| 8M8.V40 | T00187 | 40 | 20 | 108 | 130 | — | 1 |
| 8M8.V50 | T00186 | 50 | 25 | 108 | 130 | — | 1 |
| 8M8.V50 L | — | 50 | 25 | 108 | 169 | 98 | 2 |

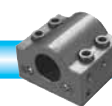
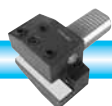
PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | Mori Seiki code | | | |
|---------|-----------------|----|-----|-----|
| ART. | Cod. Mori Seiki | C | S | L |
| 8M8.B25 | T00197 | 25 | 108 | 130 |



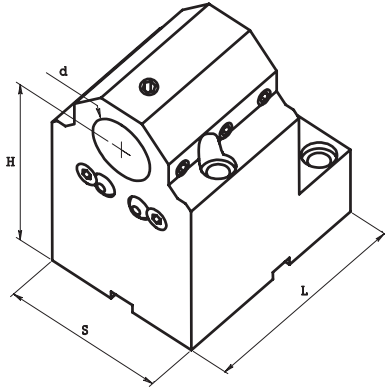
INTERASSE FORI IN PORTAUTENSILI
DISTANCE BETWEEN HOLES IN TOOLHOLDERS





TORNI MORI SEIKI / NZ / NL / DURA TURN
MORI SEIKI LATHES / NZ / NL / DURA TURN

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

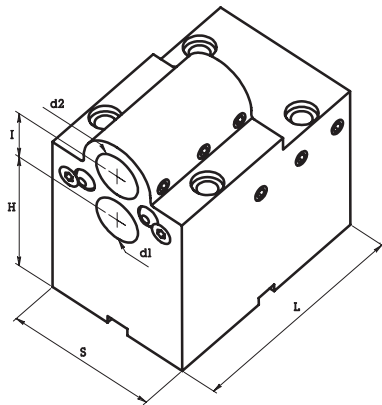


| Code | Mori Seiki code | | | | |
|-----------|-----------------|----|-----|----|-----|
| ART. | Cod. Mori Seiki | d | H | S | L |
| 7M5.C32 | T10115 | 32 | 100 | 78 | 115 |
| 7M5.C32 R | T13132 | 32 | 100 | 78 | 115 |



Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

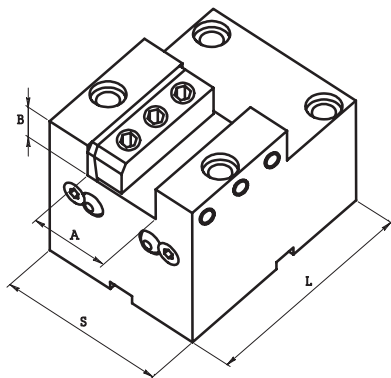
PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



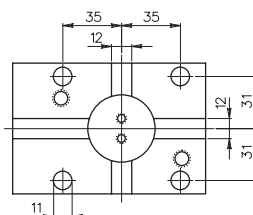
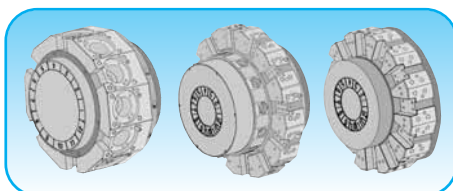
| Code | Mori Seiki code | | | | | |
|---------|-----------------|-------|----|----|----|-----|
| ART. | Cod. Mori Seiki | d1-d2 | H | I | S | L |
| 7M5.D25 | T10117 | 25 | 75 | 30 | 78 | 130 |

Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

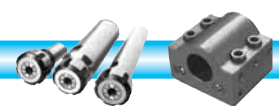
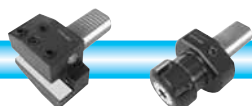
PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



| Code | Mori Seiki code | | | | |
|---------|-----------------|----|----|----|-----|
| ART. | Cod. Mori Seiki | A | B | S | L |
| 8M5.C40 | — | 40 | 20 | 78 | 115 |



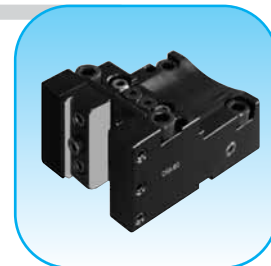
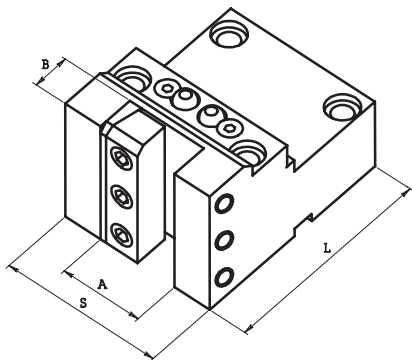
INTERASSE FORI IN PORTAUTENSILI
DISTANCE BETWEEN HOLES IN TOOLHOLDERS





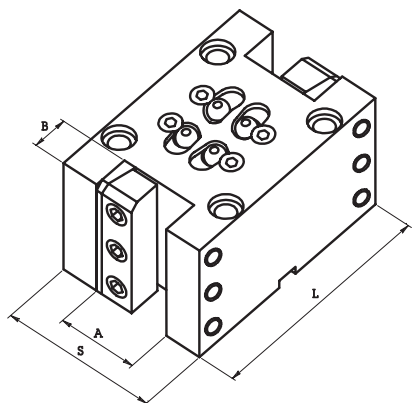
TORNI MORI SEIKI / NZ / NL / DURA TURN
MORI SEIKI LATHES / NZ / NL / DURA TURN

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



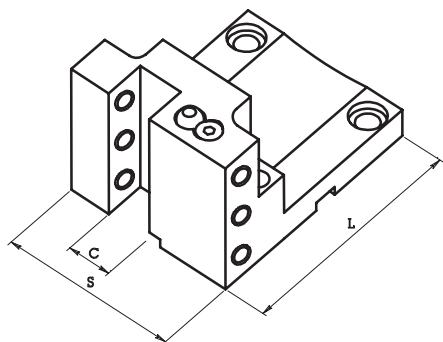
| Code | Mori Seiki code | | | | |
|---------|-----------------|----|----|-----|-----|
| ART. | Cod. Mori Seiki | A | B | S | L |
| 8M5.V40 | T00224 | 40 | 20 | 78 | 115 |
| 8M5.V50 | - | 50 | 25 | 100 | 124 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS

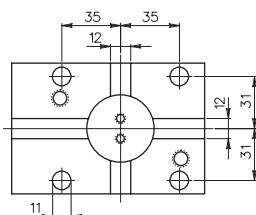
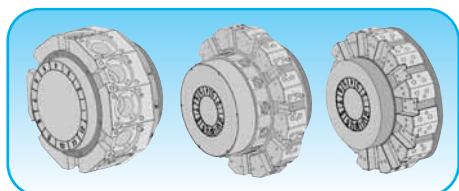


| Code | Mori Seiki code | | | | |
|---------|-----------------|----|----|----|-----|
| ART. | Cod. Mori Seiki | A | B | S | L |
| 8M5.D40 | T00228 | 40 | 20 | 78 | 130 |

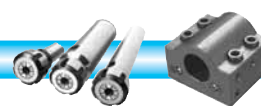
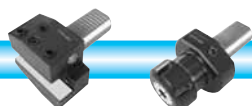
PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | Mori Seiki code | | | |
|---------|-----------------|----|----|-----|
| ART. | Cod. Mori Seiki | C | S | L |
| 8M5.B20 | T00251 | 20 | 78 | 115 |



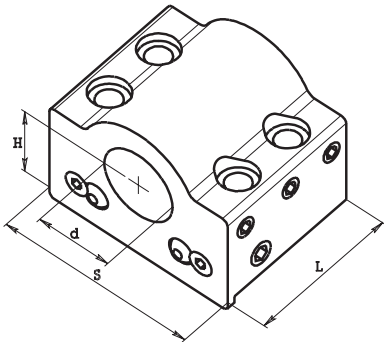
INTERASSE FORI IN PORTAUTENSILI
DISTANCE BETWEEN HOLES IN TOOLHOLDERS





TORNI MORI SEIKI / SL / CL / ZL / DURA TURN - TORNI CMZ - TORNI GOODWAY
MORI SEIKI LATHES / SL / CL / ZL / DURA TURN - CMZ LATHES - GOODWAY LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

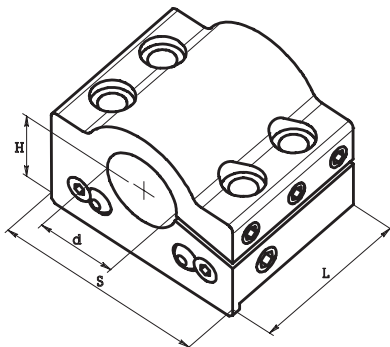


| Code | Mori Seiki code | | | | | |
|-----------|-----------------|----|----|-----|----|------|
| ART. | Cod. Mori Seiki | d | H | S | L | Fig. |
| 7M3.C32 | T10046 | 32 | 35 | 90 | 79 | 1 |
| 7M3.C32 R | T13066 | 32 | 35 | 90 | 79 | 1 |
| 7M6.C40 | T10036 | 40 | 40 | 105 | 90 | 2 |
| 7M6.C40 R | T13064 | 40 | 40 | 105 | 90 | 2 |
| 7M6.C50 | T10044 | 50 | 40 | 105 | 90 | 2 |

Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

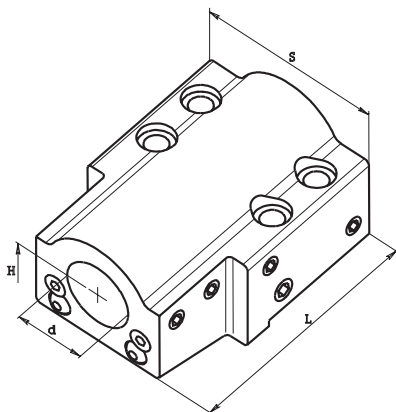
Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



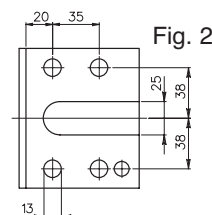
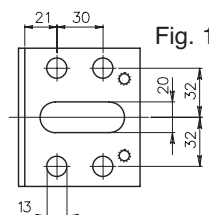
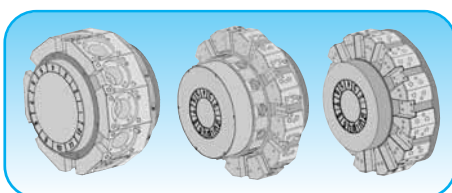
| Code | Mori Seiki code | | | | | |
|-----------|-----------------|----|----|-----|----|------|
| ART. | Cod. Mori Seiki | d | H | S | L | Fig. |
| 7M6.C25 B | — | 25 | 40 | 105 | 90 | 2 |
| 7M6.C40 B | T10036 | 40 | 40 | 105 | 90 | 2 |
| 7M6.C50 B | T10044 | 50 | 40 | 105 | 90 | 2 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

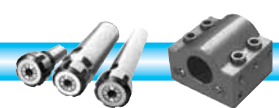
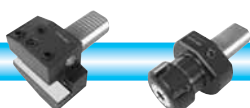
Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



| Code | Mori Seiki code | | | | | |
|---------|-----------------|----|----|-----|-----|------|
| ART. | Cod. Mori Seiki | d | H | S | L | Fig. |
| 7M3.L32 | T10052 | 32 | 35 | 90 | 139 | 1 |
| 7M6.L40 | T10038 | 40 | 40 | 105 | 160 | 2 |
| 7M6.L50 | T10094 | 50 | 40 | 105 | 160 | 2 |



INTERASSE FORI
IN PORTAUTENSILI
DISTANCE BETWEEN HOLES
IN TOOLHOLDERS

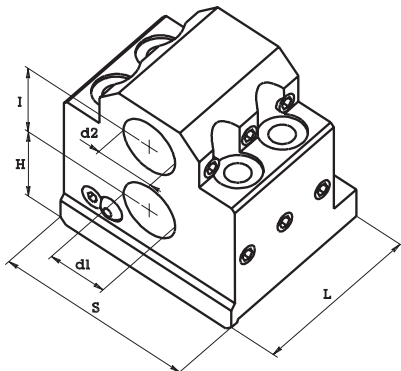




TORNI MORI SEIKI / SL / CL / ZL / DURA TURN - TORNI CMZ - TORNI GOODWAY

MORI SEIKI LATHES / SL / CL / ZL / DURA TURN - CMZ LATHES - GOODWAY LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

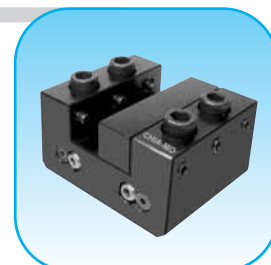
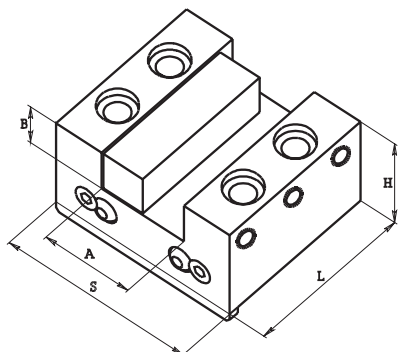


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



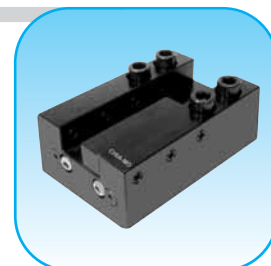
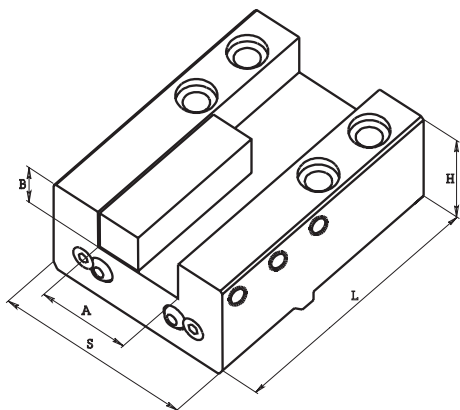
| Code | Mori Seiki code | | | | | | |
|-----------|-----------------|-------|----|----|-----|-----|------|
| ART. | Cod. Mori Seiki | d1-d2 | H | I | S | L | Fig. |
| 7M3.D25 | T10082 | 25 | 35 | 40 | 90 | 79 | 1 |
| 7M6.D32 | T10086 | 32 | 40 | 45 | 105 | 90 | 2 |
| 7M6.D32 L | T10208 | 32 | 40 | 45 | 105 | 125 | 2 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

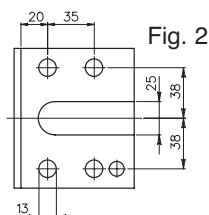
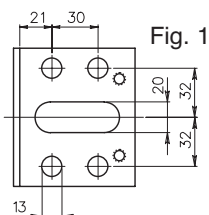
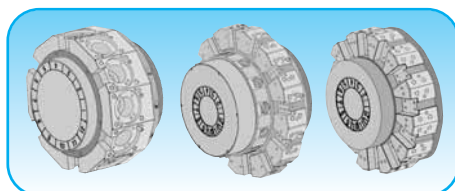


| Code | Mori Seiki code | | | | | | |
|---------|-----------------|----|----|-----|----|----|------|
| ART. | Cod. Mori Seiki | A | B | S | L | H | Fig. |
| 8M3.C40 | T00080 | 40 | 20 | 90 | 79 | 45 | 1 |
| 8M6.C50 | T00068 | 50 | 25 | 106 | 90 | 55 | 2 |

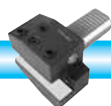
PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



| Code | Mori Seiki code | | | | | | |
|---------|-----------------|----|----|-----|-----|----|------|
| ART. | Cod. Mori Seiki | A | B | S | L | H | Fig. |
| 8M3.L40 | T00148 | 40 | 20 | 90 | 139 | 50 | 1 |
| 8M6.L50 | T00082 | 50 | 25 | 106 | 160 | 60 | 2 |



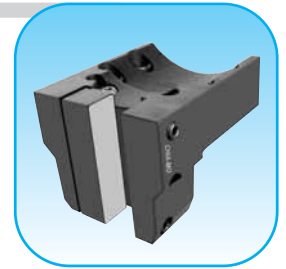
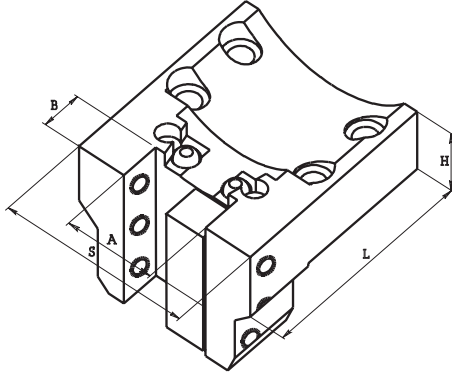
INTERASSE FORI
IN PORTAUTENSILI
DISTANCE BETWEEN HOLES
IN TOOLHOLDERS





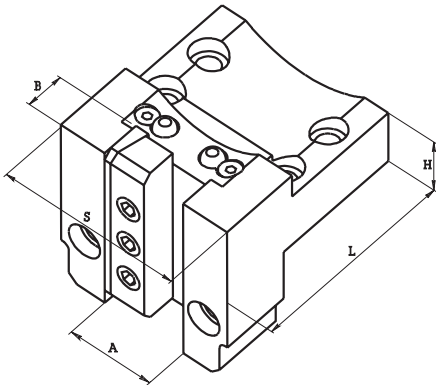
TORNI MORI SEIKI / SL / CL / ZL / DURA TURN - TORNI CMZ - TORNI GOODWAY
MORI SEIKI LATHES / SL / CL / ZL / DURA TURN - CMZ LATHES - GOODWAY LATHES

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



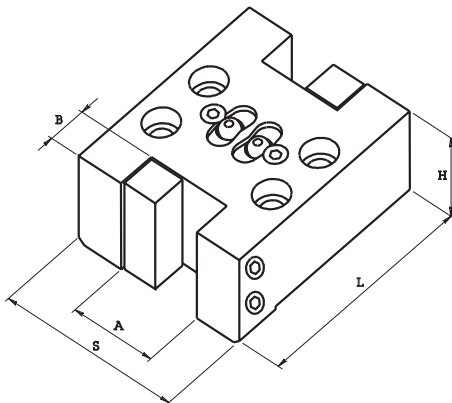
| Code | Mori Seiki code | | | | | | |
|-----------|-----------------|----|----|-----|-----|----|------|
| ART. | Cod. Mori Seiki | A | B | S | L | H | Fig. |
| 8M3.V40 | T00146 | 40 | 20 | 90 | 115 | 35 | 1 |
| 8M6.V50 | T00074 | 50 | 25 | 106 | 130 | 40 | 2 |
| 8M6.V50 L | T00076 | 50 | 25 | 106 | 155 | 40 | 2 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS

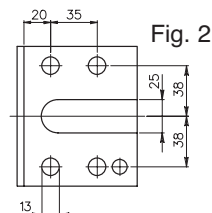
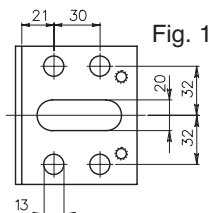
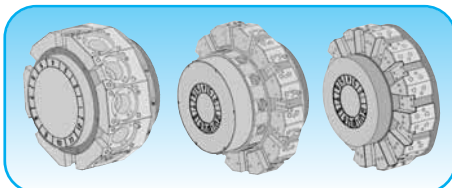


| Code | Mori Seiki code | | | | | | |
|-----------|-----------------|----|----|-----|-----|----|------|
| ART. | Cod. Mori Seiki | A | B | S | L | H | Fig. |
| 8M3.T40 | T00078 | 40 | 20 | 90 | 115 | 45 | 1 |
| 8M6.T50 | T00162 | 50 | 25 | 106 | 130 | 35 | 2 |
| 8M6.T50 L | T00164 | 50 | 25 | 106 | 160 | 35 | 2 |

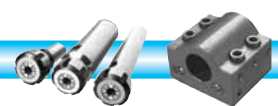
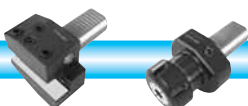
PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | Mori Seiki code | | | | | | |
|---------|-----------------|----|----|-----|-----|----|------|
| ART. | Cod. Mori Seiki | A | B | S | L | H | Fig. |
| 8M3.D40 | T00108 | 40 | 20 | 90 | 120 | 50 | 1 |
| 8M6.D50 | T00158 | 50 | 25 | 106 | 141 | 60 | 2 |



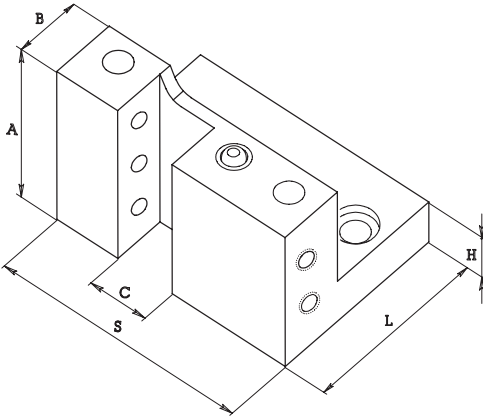
INTERASSE FORI
IN PORTAUTENSILI
DISTANCE BETWEEN HOLES
IN TOOLHOLDERS





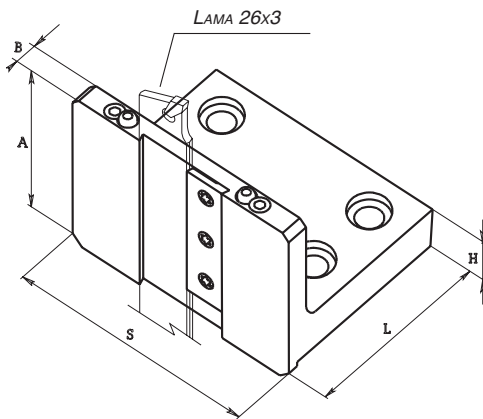
TORNI MORI SEIKI / SL / CL / ZL / DURA TURN - TORNI CMZ - TORNI GOODWAY
MORI SEIKI LATHES / SL / CL / ZL / DURA TURN - CMZ LATHES - GOODWAY LATHES

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



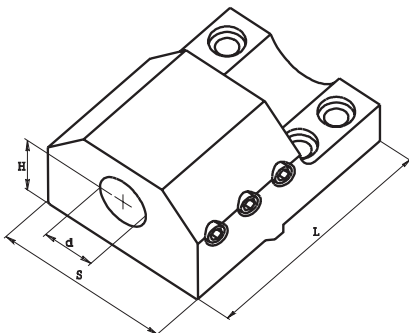
| Code | Mori Seiki code | | | | | | | Cut | |
|---------|-----------------|----|----|----|-----|----|----|--------|------|
| ART. | Cod. Mori Seiki | A | B | C | S | L | H | Taglio | Fig. |
| 8M3.B20 | T00134 | 68 | 31 | 20 | 90 | 75 | 21 | Dx | 1 |
| 8M6.B25 | T00156 | 78 | 31 | 25 | 106 | 85 | 21 | Dx | 2 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



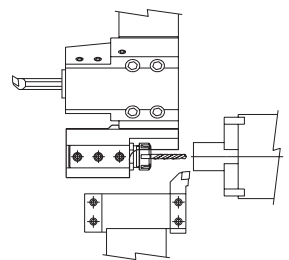
| Code | Mori Seiki code | | | | | | | Cut | |
|---------|-----------------|----|----|---|-----|----|----|--------|------|
| ART. | Cod. Mori Seiki | A | B | C | S | L | H | Taglio | Fig. |
| 8M6.B26 | — | 75 | 11 | — | 106 | 90 | 21 | Dx-Sx | 2 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



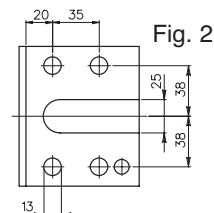
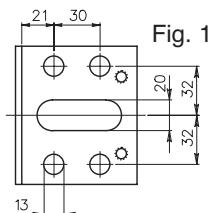
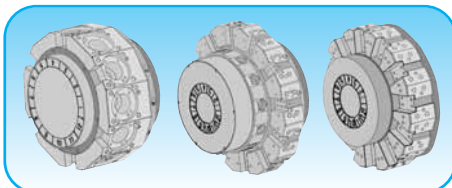
Questo portautensile permette di ridurre lo spazio di ingombro degli utensili (punte, bareni) nelle lavorazioni di ripresa sul contromandrino

This toolholder allows to reduce the obstruction of tools in turning on in second spindle head

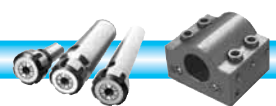
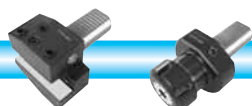


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

| Code | Mori Seiki code | | | | | | | | |
|-------------|-----------------|----|----|-----|-----|------|--|--|--|
| ART. | Cod. Mori Seiki | d | H | S | L | Fig. | | | |
| 7M3.S25 | — | 25 | 35 | 90 | 139 | 1 | | | |
| 7M3.S32 H50 | — | 32 | 50 | 90 | 79 | 1 | | | |
| 7M6.S32 | — | 32 | 40 | 105 | 160 | 2 | | | |



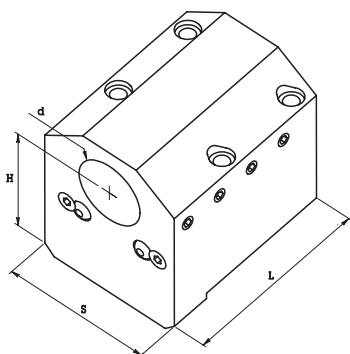
INTERASSE FORI
IN PORTAUTENSILI
DISTANCE BETWEEN HOLES
IN TOOLHOLDERS



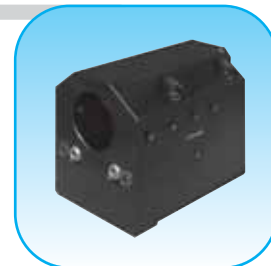


TORNI DAEWOO / DOOSAN Tipo BMT
DAEWOO / DOOSAN LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

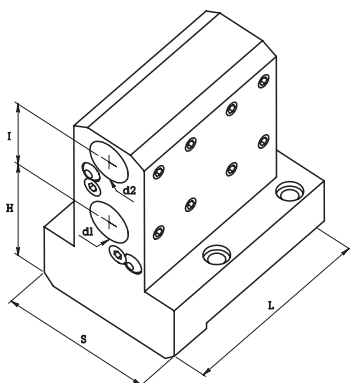


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system

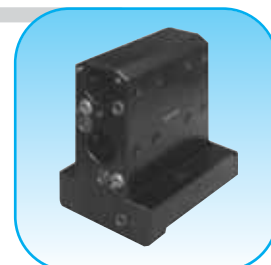


| Code | Type | Doosan code | | | | | | |
|---------|--------|-------------|----|----|-----|-----|------|--|
| ART. | Tipo | Cod. Doosan | d | H | S | L | Fig. | |
| 7D6.C40 | BMT 55 | L61590327D | 40 | 70 | 85 | 120 | 1 | |
| 7D7.C40 | BMT 65 | - | 40 | 72 | 95 | 110 | 2 | |
| 7D8.C40 | BMT 75 | - | 60 | 60 | 112 | 165 | 3 | |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

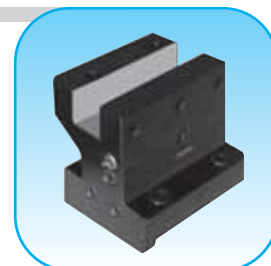
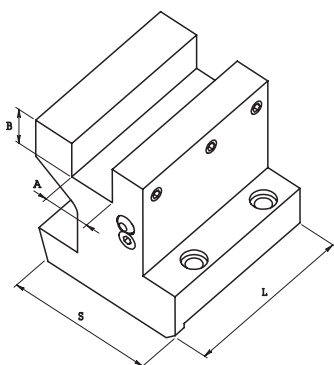


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



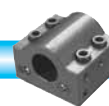
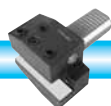
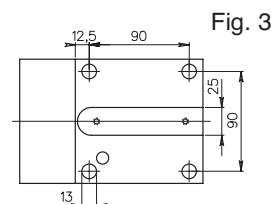
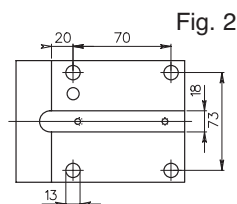
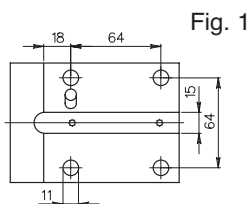
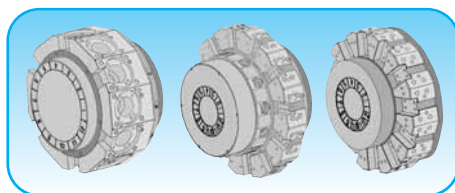
| Code | Type | Doosan code | | | | | | |
|---------|--------|-------------|-------|----|----|----|-----|------|
| ART. | Tipo | Cod. Doosan | d1-d2 | H | I | S | L | Fig. |
| 7D6.D25 | BMT 55 | L61590357D | 25 | 70 | 45 | 85 | 126 | 1 |
| 7D7.D32 | BMT 65 | - | 32 | 85 | 45 | 95 | 130 | 2 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



| Code | Type | Doosan code | | | | | | |
|---------|--------|-------------|------|----|----|-----|------|--|
| ART. | Tipo | Cod. Doosan | A | B | S | L | Fig. | |
| 8D6.C25 | BMT 55 | L31560537C | 26,5 | 25 | 91 | 105 | 1 | |

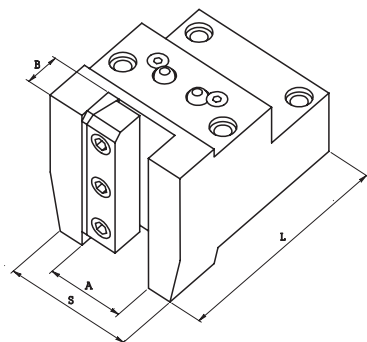
INTERASSE FORI IN PORTAUTENSILI DISTANCE BETWEEN HOLES IN TOOLHOLDERS





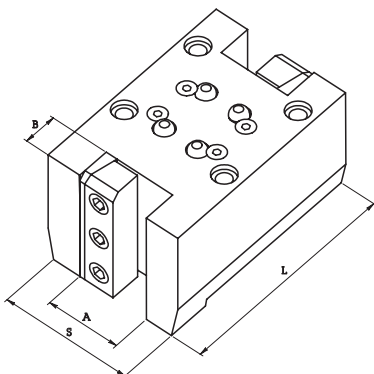
TORNI DAEWOO / DOOSAN Tipo BMT
DAEWOO / DOOSAN LATHES

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



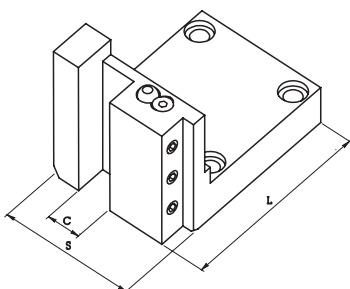
| Code | Type | Doosan code | | | | | |
|---------|--------|-------------|----|----|-----|-----|------|
| ART. | Tipo | Cod. Doosan | A | B | S | L | Fig. |
| 8D6.V50 | BMT 55 | L31560517B | 50 | 25 | 97 | 126 | 1 |
| 8D7.V50 | BMT 65 | - | 50 | 25 | 95 | 120 | 2 |
| 8D8.V50 | BMT 75 | - | 50 | 25 | 112 | 165 | 3 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



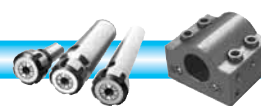
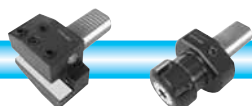
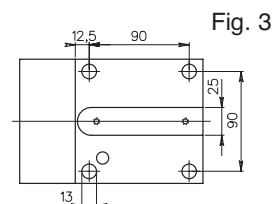
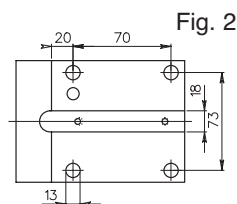
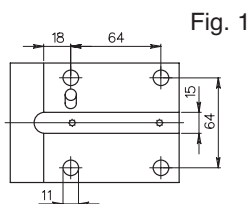
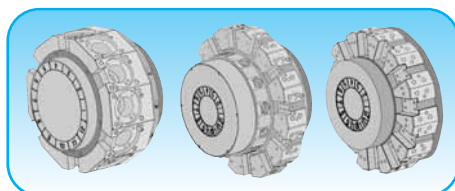
| Code | Type | Doosan code | | | | | |
|---------|--------|-------------|----|----|----|-----|------|
| ART. | Tipo | Cod. Doosan | A | B | S | L | Fig. |
| 8D6.D50 | BMT 55 | L61590347A | 50 | 25 | 97 | 148 | 1 |
| 8D7.D50 | BMT 65 | - | 50 | 25 | 95 | 142 | 2 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | Type | Doosan code | | | | |
|---------|--------|-------------|----|----|-----|------|
| ART. | Tipo | Cod. Doosan | C | S | L | Fig. |
| 8D6.B25 | BMT 55 | L61590367C | 25 | 97 | 130 | 1 |

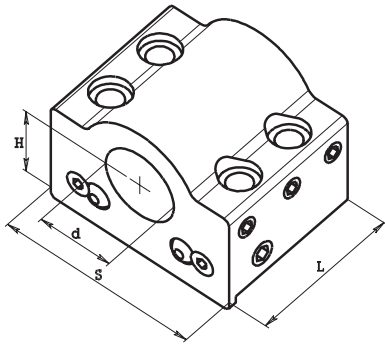
INTERASSE FORI IN PORTAUTENSILI *DISTANCE BETWEEN HOLES IN TOOLHOLDERS*





TORNI CMZ
CMZ LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

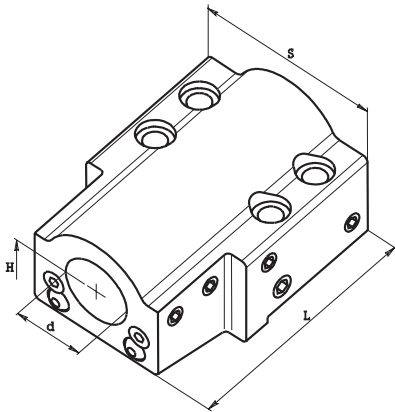


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



| Code | CMZ code | | | | | |
|-----------|---------------|----|----|-----|----|------|
| ART. | Cod. CMZ | d | H | S | L | Fig. |
| 7C3.C40 | TL15/10000/09 | 40 | 40 | 90 | 80 | 1 |
| 7C6.C40 | TL20/10000/09 | 40 | 40 | 105 | 90 | 2 |
| 7C6.C40 R | TL20/10000/12 | 40 | 40 | 105 | 90 | 2 |
| 7C6.C50 | TL20/10000/40 | 50 | 40 | 105 | 90 | 2 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

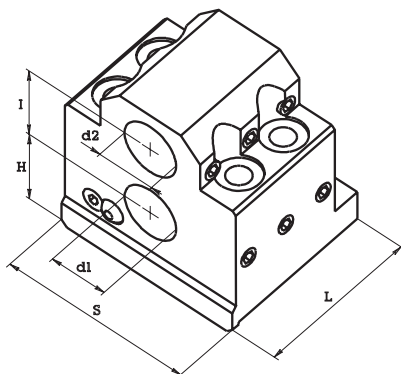


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



| Code | CMZ code | | | | | |
|---------|---------------|----|----|-----|-----|------|
| ART. | Cod. CMZ | d | H | S | L | Fig. |
| 7C3.L40 | TL15/10000/10 | 40 | 40 | 90 | 135 | 1 |
| 7C6.L40 | TL20/10000/10 | 40 | 40 | 105 | 160 | 2 |
| 7C6.L50 | TL20/10000/39 | 50 | 40 | 105 | 160 | 2 |

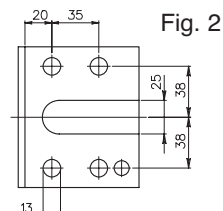
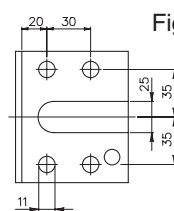
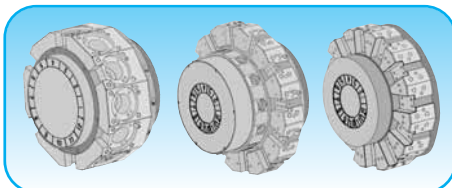
PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



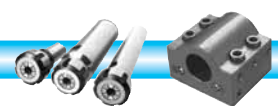
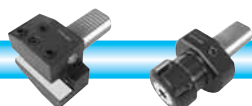
Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



| Code | Doosan code | | | | | |
|---------|---------------|-------|----|----|-----|----|
| ART. | Cod. Doosan | d1-d2 | H | I | S | L |
| 7C3.D25 | TL15/10000/11 | 25 | 40 | 35 | 90 | 75 |
| 7C6.D32 | TL20/10000/11 | 32 | 40 | 45 | 105 | 90 |



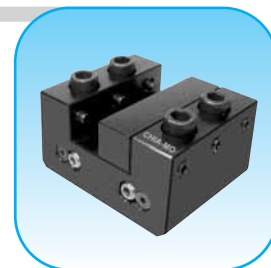
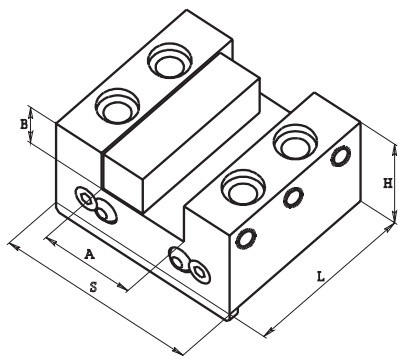
INTERASSE FORI
IN PORTAUTENSILI
DISTANCE BETWEEN HOLES
IN TOOLHOLDERS





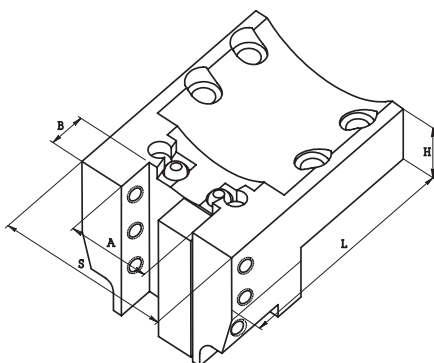
TORNI CMZ
CMZ LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



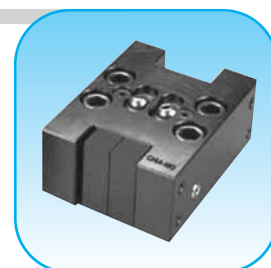
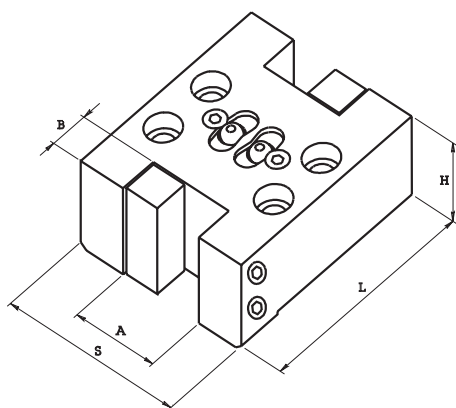
| Code | CMZ code | | | | | | |
|---------|---------------|----|----|-----|----|----|------|
| ART. | Cod. CMZ | A | B | S | L | H | Fig. |
| 8C3.C40 | TL15/10000/08 | 40 | 20 | 90 | 75 | 50 | 1 |
| 8C6.C50 | TL20/10000/08 | 50 | 25 | 106 | 90 | 55 | 2 |

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS

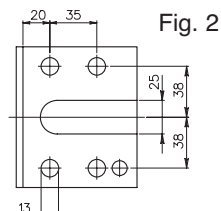
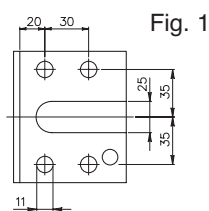
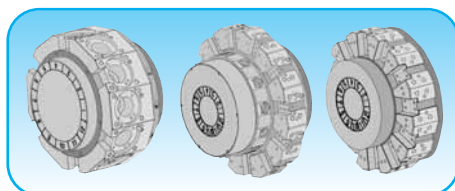


| Code | CMZ code | | | | | | |
|-----------|---------------|----|----|-----|-----|----|------|
| ART. | Cod. CMZ | A | B | S | L | H | Fig. |
| 8C3.V40 | TL15/10000/45 | 40 | 20 | 90 | 155 | 44 | 1 |
| 8C6.V50 L | TL20/10000/45 | 50 | 25 | 102 | 165 | 44 | 2 |

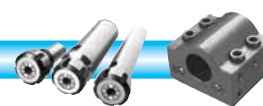
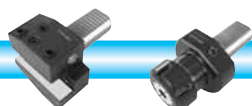
PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | CMZ code | | | | | | |
|---------|---------------|----|----|-----|-----|----|------|
| ART. | Cod. CMZ | A | B | S | L | H | Fig. |
| 8C3.D40 | TL15/10000/07 | 40 | 20 | 90 | 120 | 50 | 1 |
| 8C6.D50 | TL20/10000/07 | 50 | 25 | 106 | 141 | 60 | 2 |



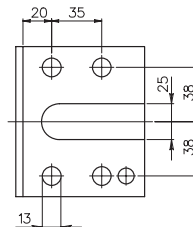
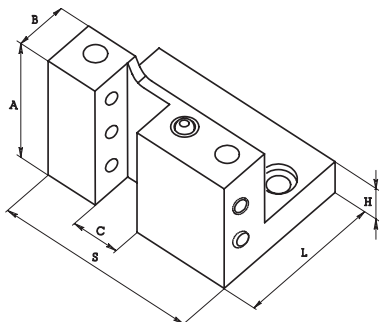
INTERASSE FORI
IN PORTAUTENSILI
DISTANCE BETWEEN HOLES
IN TOOLHOLDERS





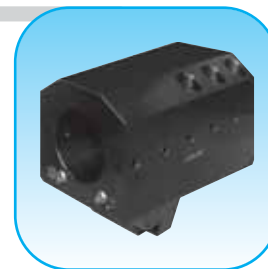
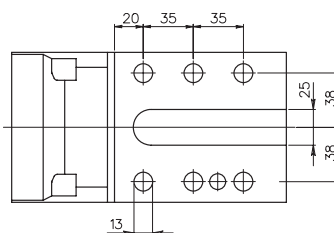
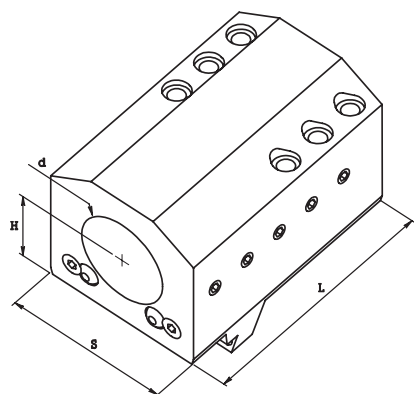
TORNI CMZ
CMZ LATHES

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



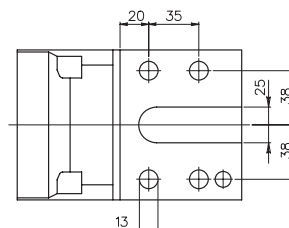
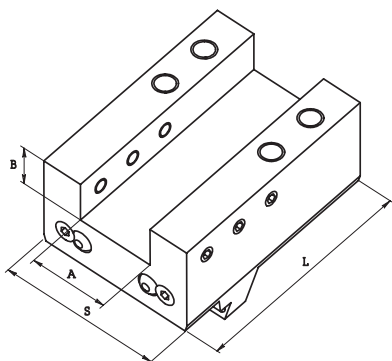
| Code | CMZ code | | | | | | | Cut |
|---------|----------|----|----|----|-----|----|----|--------|
| ART. | Cod. CMZ | A | B | C | S | L | H | Taglio |
| 8C6.B25 | - | 78 | 31 | 25 | 106 | 85 | 21 | Dx |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

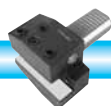


| Code | CMZ code | | | | |
|---------|---------------|----|----|-----|-----|
| ART. | Cod. CMZ | d | H | S | L |
| 7C8.L60 | TC35/10000/54 | 60 | 50 | 106 | 180 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



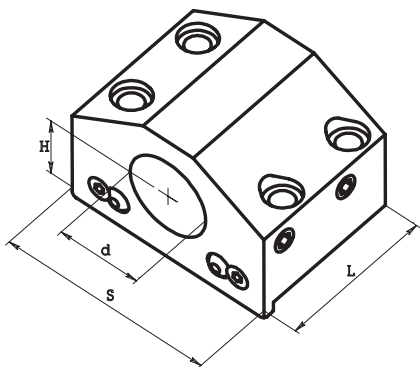
| Code | CMZ code | | | | |
|---------|---------------|----|----|-----|-----|
| ART. | Cod. CMZ | A | B | S | L |
| 8C8.L50 | TC35/10000/57 | 50 | 25 | 106 | 165 |



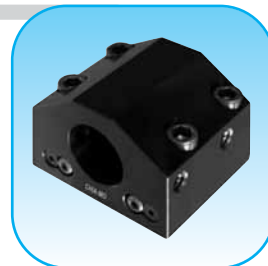


TORNI OKUMA LB15 / 25 / 300 - TORNI HAAS SL 20 / 30
OKUMA LATHES LB15 / 25 / 300 - HAAS LATHES SL 20 / 30

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

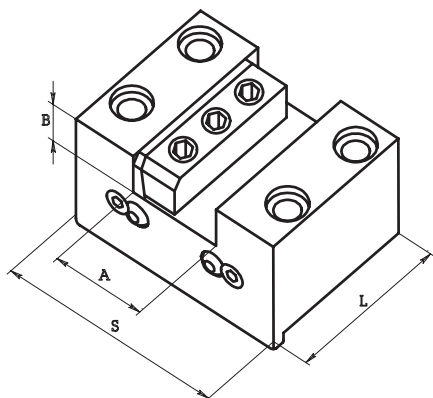


Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



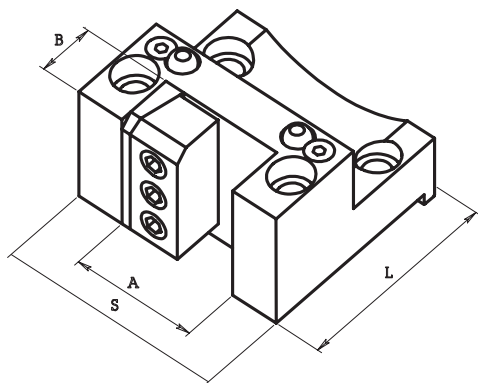
| Code | HAAS code | | | | |
|---------|-----------|----|-------|-------|------|
| ART. | Cod. HAAS | d | H | S | L |
| 7H6.C32 | BOT20MID | 32 | 31.75 | 101.5 | 82.5 |
| 7H6.C40 | BOT20MID | 40 | 31.75 | 101.5 | 82.5 |

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

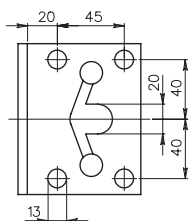
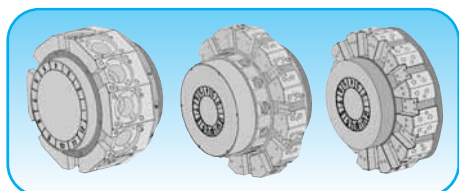


| Code | HAAS code | | | | |
|---------|-----------|----|----|-------|------|
| ART. | Cod. HAAS | A | B | S | L |
| 8H6.C50 | BOT20MFG | 50 | 25 | 101.5 | 82.5 |

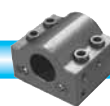
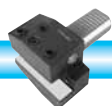
PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | HAAS code | | | | |
|---------|-----------|----|----|-------|----|
| ART. | Cod. HAAS | A | B | S | L |
| 8H6.V50 | BOT20MOD | 50 | 25 | 101.5 | 92 |



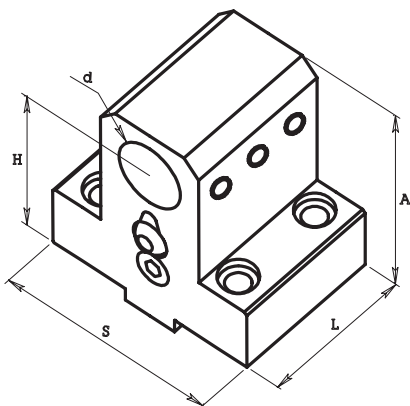
INTERASSE FORI IN PORTAUTENSILI
DISTANCE BETWEEN HOLES IN TOOLHOLDERS



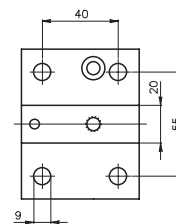


TORNI NAKAMURA TOME WT100 - TORNI GOODWAY
NAKAMURA TOME WT100 - GOODWAY LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS



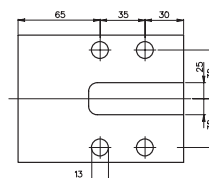
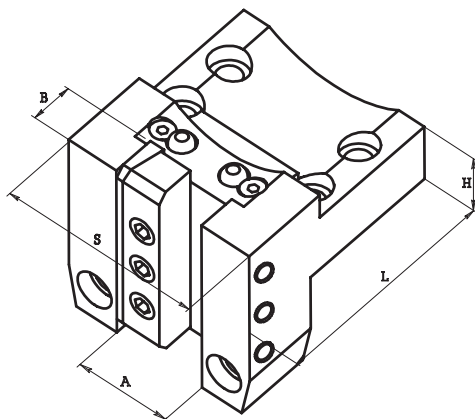
Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



| Code | | | | | |
|------------|----|------|----|----|------|
| ART. | d | H | S | L | A |
| 7G3.C25 60 | 25 | 60.2 | 79 | 62 | 78.7 |
| 7G3.C32 60 | 32 | 60.2 | 79 | 62 | 82.7 |

TORNI GOODWAY
GOODWAY LATHES

PORTAUTENSILI RADIALI - RADIAL TOOLHOLDERS



| Code | | | | | |
|---------|----|----|-----|-----|----|
| ART. | A | B | S | L | H |
| 8G6.T50 | 50 | 25 | 100 | 130 | 40 |

TORNI MURATA - TORNI GOODWAY - TONG TAI TNL 150
MURATA LATHES - GOODWAY LATHES - TONG TAI TNL 150 LATHES

PORTAUTENSILI ASSIALI - AXIAL TOOLHOLDERS

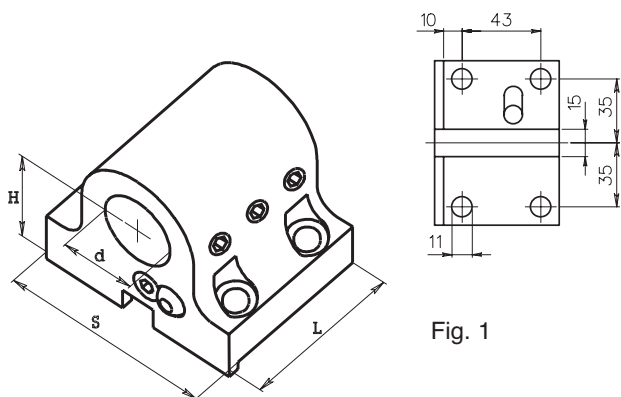


Fig. 1

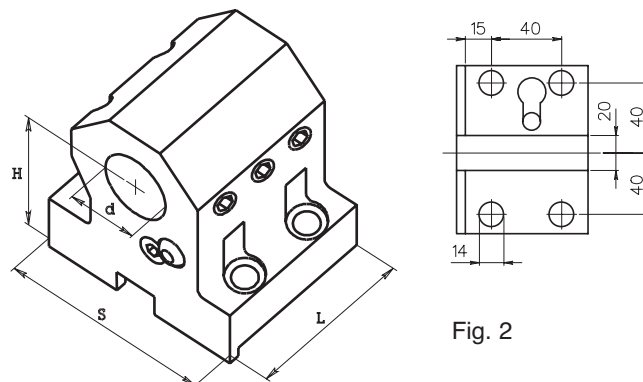
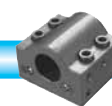
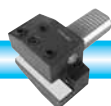


Fig. 2

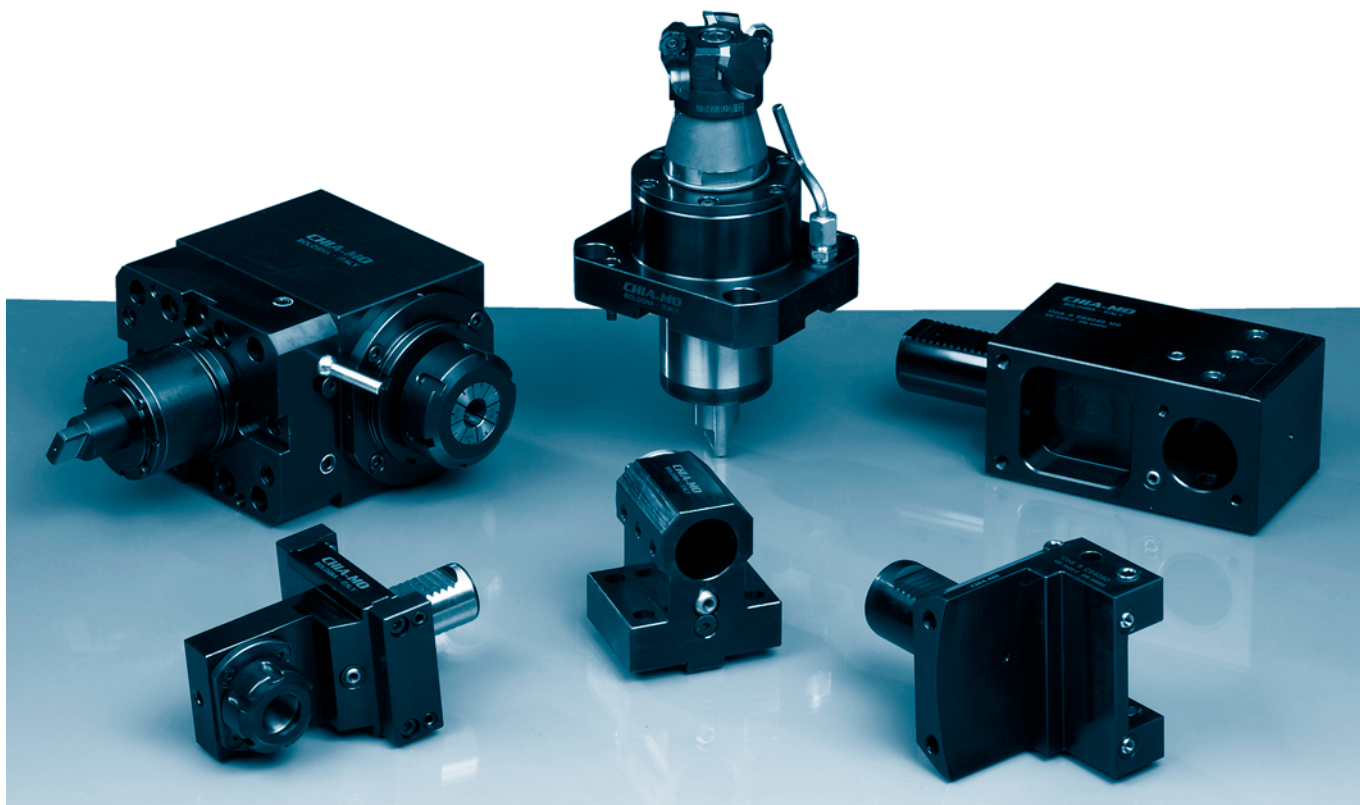
| Code | | | | | |
|---------|----|----|----|----|------|
| ART. | d | H | S | L | Fig. |
| 7T3.C32 | 32 | 45 | 90 | 68 | 1 |
| 7T5.C32 | 32 | 65 | 96 | 75 | 2 |
| 7T5.C40 | 40 | 65 | 96 | 75 | 2 |

Con passaggio liquido refrigerante esterno o interno
With inner or outer coolant feeding system



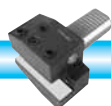


PORTAUTENSILI PER TORNI SU RICHIESTA
LATHE TOOLHOLDERS ON REQUEST



**OLTRE ALLA SERIE DI PORTAUTENSILI “STANDARD”
DISPONIBILI A MAGAZZINO, LA CHIA-MO È
SPECIALIZZATA NELLA REALIZZAZIONE, CON
PRODUZIONI SPECIALI ESEGUITE IN MODO
TEMPESTIVO E AFFIDABILE, DI PORTAUTENSILI
“SU RICHIESTA” PER RISOLVERE LE SPECIFICHE
PROBLEMATICHE DEL CLIENTE.**

*TOGETHER WITH THE SERIES OF “STANDARD” TOOL HOLDERS
AVAILABLE FROM STOCK, CHIA-MO IS ALSO SPECIALISED IN THE
PRODUCTION, WITH SPECIAL PRODUCTS MADE PROMPTLY AND
RELIABLY, OF “CUSTOMISED” TOOL HOLDERS TO RESOLVE
SPECIFIC PROBLEMS OF THE CUSTOMER.*



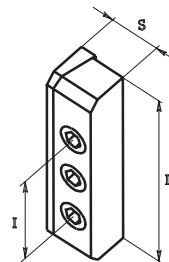


ACCESSORI PER PORTA UTENSILI

ACCESSORIES FOR TOOLHOLDERS

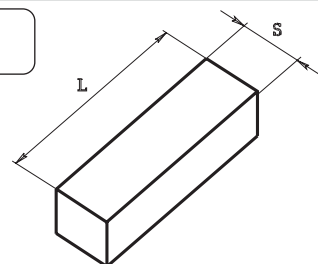
TASSELLO PER FISSAGGIO UTENSILI IN TORRETTE ED IN PORTAUTENSILI
LOCKING BLOCKS FOR TOOL FASTENING IN TURRETS AND TOOLHOLDERS

| Code | | | | for toolholders |
|-----------|----|-----|----|-----------------------------|
| ART. | S | L | I | Per portautensili |
| 999.005 | 25 | 109 | 50 | 8M6.T50 - 8M6T50 L |
| 999.013 | 25 | 70 | 40 | 8M8.V50 - 8M8.C50 - 8M8.D50 |
| 999.013 H | 25 | 48 | 29 | 7H6.C32 - 7H6.C40 - 8H6.C50 |
| 999.017 | 20 | 63 | 36 | 8M8.V40 - 8M8.C40 - 8M8.D40 |
| 999.024 | 25 | 64 | 40 | 8D6.V50 - 8D6.D50 |



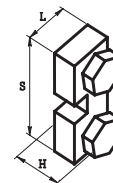
TASSELLO PER FISSAGGIO UTENSILI IN PORTAUTENSILI
LOCKING BLOCKS FOR TOOL FASTENING IN TOOLHOLDERS

| Code | | | | for toolholders |
|---------|----|----|---|-----------------|
| ART. | S | L | Per portautensili | |
| 999.010 | 18 | 50 | 8M3.D40 - 8M8.D40 | |
| 999.009 | 18 | 79 | 8M3.C40 - 8M3.L40 - 8M8.C40 | |
| 999.008 | 24 | 60 | 8M6.D50 - 8M8.D50 - 8M8.V50 | |
| 999.004 | 24 | 90 | 8M6.C50 - 8M6.L50 - 8M6.V50 - 8M6.V50 L - 8M8.V50 L | |



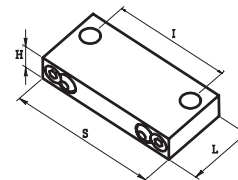
PIASTRINO PER FISSAGGIO UTENSILI
TOOL LOCKING BLOCKS

| Code | HAAS code | | | |
|---------|------------|----|----|----|
| ART. | Cod. HAAS | S | L | H |
| 999.020 | BOT20MOD/C | 68 | 25 | 25 |



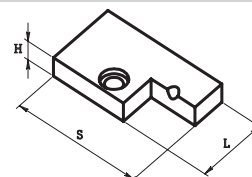
BLOCCHETTO PER ADDUZIONE REFRIGERANTE
COOLANT PLATE

| Code | HAAS code | | | | |
|-----------|-----------|----|----|------|----|
| ART. | Cod. HAAS | S | L | H | I |
| 999.018 B | CB10 | 88 | 45 | 16.5 | 70 |



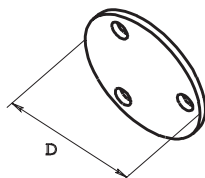
PIASTRINO PER DEVIAZIONE REFRIGERANTE
COOLANT DEVIATION PLATE

| Code | Mori Seiki code | | | |
|---------|-----------------|----|----|----|
| ART. | Cod. Mori Seiki | S | L | H |
| 999.018 | B52059 | 65 | 40 | 12 |



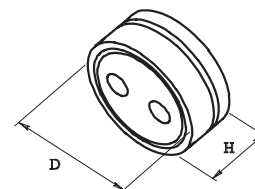
TAPPI PER REFRIGERAZIONE INTERNA
RING FOR INNER COOLANT FEEDING SYSTEM

| Code | for hole | |
|---------|----------|----------|
| ART. | D | Per foro |
| 999.012 | 40 | 25 |
| 999.001 | 48 | 32 |
| 999.002 | 60 | 40 |
| 999.007 | 70 | 50 |



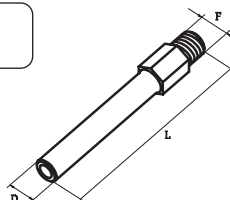
TAPPI PER PORTAUTENSILI
RING FOR TOOLHOLDERS

| Code | | |
|-----------|----|----|
| ART. | D | H |
| 999.016 | 60 | 25 |
| 999.016 B | 40 | 25 |



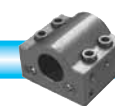
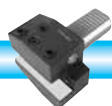
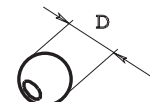
TUBINO IN RAME PER REFRIGERANTE
COPPER COOLANT PIPE

| Code | | | | Connection |
|-----------|---|-----|-----|--------------------|
| ART. | D | L | F | Raccordo |
| 999.015 | 6 | 100 | 1/8 | DIRITTO (Straight) |
| 999.015 B | 6 | 100 | 1/8 | 90° |



SFERE PER ORIENTAMENTO REFRIGERAZIONE
COOLING DIRECTION BALLS

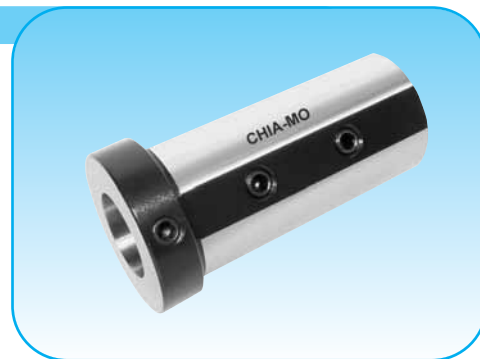
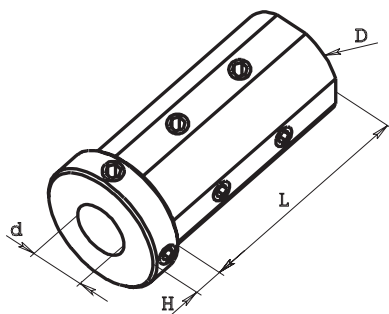
| Code | | |
|---------|----|--|
| ART. | D | |
| 999.003 | 14 | |





BUSSOLE P. BARENI CON GRANI E BATTUTA Tipo 243

BORING BAR SLEEVES



BUSSOLE DIAMETRO 19,05 DIAMETER 19,05 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|-------|----|---|----|
| 243.1906 050 | 19,05 | 6 | 5 | 50 |
| 243.1908 050 | 19,05 | 8 | 5 | 50 |
| 243.1910 050 | 19,05 | 10 | 5 | 50 |

BUSSOLE DIAMETRO 20 DIAMETER 20 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 243.2006 050 | 20 | 6 | 5 | 50 |
| 243.2008 050 | 20 | 8 | 5 | 50 |
| 243.2010 050 | 20 | 10 | 5 | 50 |

BUSSOLE DIAMETRO 22 DIAMETER 22 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 243.2206 054 | 22 | 6 | 6 | 54 |
| 243.2208 054 | 22 | 8 | 6 | 54 |
| 243.2210 054 | 22 | 10 | 6 | 54 |

BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 243.2506 054 | 25 | 6 | 6 | 54 |
| 243.2508 054 | 25 | 8 | 6 | 54 |
| 243.2510 054 | 25 | 10 | 6 | 54 |
| 243.2512 054 | 25 | 12 | 6 | 54 |

BUSSOLE DIAMETRO 25,40 DIAMETER 25,40 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|------|----|---|----|
| 243.2606 054 | 25,4 | 6 | 6 | 54 |
| 243.2608 054 | 25,4 | 8 | 6 | 54 |
| 243.2610 054 | 25,4 | 10 | 6 | 54 |
| 243.2612 054 | 25,4 | 12 | 6 | 54 |

BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|-------|----|---|----|
| 243.3106 063 | 31,75 | 6 | 7 | 63 |
| 243.3108 063 | 31,75 | 8 | 7 | 63 |
| 243.3110 063 | 31,75 | 10 | 7 | 63 |
| 243.3112 063 | 31,75 | 12 | 7 | 63 |
| 243.3114 063 | 31,75 | 14 | 7 | 63 |
| 243.3116 063 | 31,75 | 16 | 7 | 63 |
| 243.3120 063 | 31,75 | 20 | 7 | 63 |

BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES

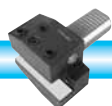
| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 243.3208 040 | 32 | 8 | 7 | 40 |
| 243.3210 040 | 32 | 10 | 7 | 40 |
| 243.3212 040 | 32 | 12 | 7 | 40 |
| 243.3216 040 | 32 | 16 | 7 | 40 |
| 243.3220 040 | 32 | 20 | 7 | 40 |
| 243.3206 063 | 32 | 6 | 7 | 63 |
| 243.3208 063 | 32 | 8 | 7 | 63 |
| 243.3210 063 | 32 | 10 | 7 | 63 |
| 243.3212 063 | 32 | 12 | 7 | 63 |
| 243.3214 063 | 32 | 14 | 7 | 63 |
| 243.3216 063 | 32 | 16 | 7 | 63 |
| 243.3220 063 | 32 | 20 | 7 | 63 |

BUSSOLE DIAMETRO 40 DIAMETER 40 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|----|----|
| 243.4006 070 | 40 | 6 | 12 | 70 |
| 243.4008 080 | 40 | 8 | 12 | 80 |
| 243.4010 080 | 40 | 10 | 12 | 80 |
| 243.4012 080 | 40 | 12 | 12 | 80 |
| 243.4014 080 | 40 | 14 | 12 | 80 |
| 243.4016 080 | 40 | 16 | 12 | 80 |
| 243.4018 080 | 40 | 18 | 12 | 80 |
| 243.4020 080 | 40 | 20 | 12 | 80 |
| 243.4025 080 | 40 | 25 | 12 | 80 |

BUSSOLE DIAMETRO 50 DIAMETER 50 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|----|----|
| 243.5010 085 | 50 | 10 | 12 | 85 |
| 243.5012 085 | 50 | 12 | 12 | 85 |
| 243.5016 085 | 50 | 16 | 12 | 85 |
| 243.5020 085 | 50 | 20 | 12 | 85 |
| 243.5025 085 | 50 | 25 | 12 | 85 |
| 243.5032 085 | 50 | 32 | 12 | 85 |



**BUSSOLE P. BARENI CON ASOLA, GRANO E BATTUTA Tipo 244**

BORING BAR SLEEVES

BUSSOLE DIAMETRO 20 DIAMETER 20 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 244.2010 050 | 20 | 10 | 8 | 50 |
| 244.2012 050 | 20 | 12 | 8 | 50 |
| 244.2016 050 | 20 | 16 | 8 | 50 |

BUSSOLE DIAMETRO 22 DIAMETER 22 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 244.2212 054 | 22 | 12 | 8 | 54 |
| 244.2216 054 | 22 | 16 | 8 | 54 |

BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

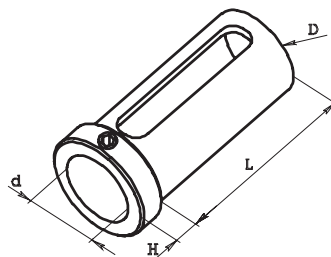
| ART. (Code) | D | d | H | L |
|--------------|----|----|----|----|
| 244.2514 055 | 25 | 14 | 12 | 55 |
| 244.2516 055 | 25 | 16 | 12 | 55 |
| 244.2520 055 | 25 | 20 | 12 | 55 |

BUSSOLE DIAMETRO 25,40 DIAMETER 25,40 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|------|-------|----|----|
| 244.2614 055 | 25,4 | 14 | 12 | 55 |
| 244.2616 055 | 25,4 | 16 | 12 | 55 |
| 244.2619 055 | 25,4 | 19,05 | 12 | 55 |
| 244.2620 055 | 25,4 | 20 | 12 | 55 |

BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|-------|----|----|----|
| 244.3125 065 | 31,75 | 25 | 12 | 65 |

**BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES**

| ART. (Code) | D | d | H | L |
|--------------|----|----|----|----|
| 244.3220 065 | 32 | 20 | 12 | 65 |
| 244.3225 065 | 32 | 25 | 12 | 65 |

BUSSOLE DIAMETRO 40 DIAMETER 40 BUSHES

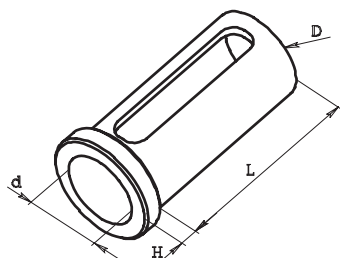
| ART. (Code) | D | d | H | L |
|--------------|----|----|----|----|
| 244.4016 080 | 40 | 16 | 12 | 80 |
| 244.4020 080 | 40 | 20 | 12 | 80 |
| 244.4025 080 | 40 | 25 | 12 | 80 |
| 244.4032 089 | 40 | 32 | 12 | 89 |

BUSSOLE DIAMETRO 50 DIAMETER 50 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|----|----|
| 244.5025 085 | 50 | 25 | 12 | 85 |
| 244.5032 085 | 50 | 32 | 12 | 85 |
| 244.5040 088 | 50 | 40 | 12 | 88 |

BUSSOLE P. BARENI CON ASOLA E BATTUTA Tipo 245

BORING BAR SLEEVES

**BUSSOLE DIAMETRO 19,05 DIAMETER 19,05 BUSHES**

| ART. (Code) | D | d | H | L |
|--------------|-------|----|---|----|
| 245.1912 050 | 19,05 | 12 | 6 | 50 |
| 245.1914 050 | 19,05 | 14 | 6 | 50 |
| 245.1916 050 | 19,05 | 16 | 6 | 50 |

BUSSOLE DIAMETRO 20 DIAMETER 20 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 245.2008 030 | 20 | 8 | 6 | 30 |
| 245.2010 030 | 20 | 10 | 6 | 30 |
| 245.2012 030 | 20 | 12 | 6 | 30 |
| 245.2014 030 | 20 | 14 | 6 | 30 |
| 245.2006 040 | 20 | 6 | 6 | 40 |
| 245.2008 040 | 20 | 8 | 6 | 40 |
| 245.2010 040 | 20 | 10 | 6 | 40 |
| 245.2012 040 | 20 | 12 | 6 | 40 |
| 245.2016 040 | 20 | 16 | 6 | 40 |
| 245.2012 050 | 20 | 12 | 6 | 50 |
| 245.2014 050 | 20 | 14 | 6 | 50 |
| 245.2016 050 | 20 | 16 | 6 | 50 |

BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

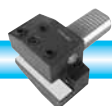
| ART. (Code) | D | d | H | L |
|--------------|----|----|---|----|
| 245.2508 050 | 25 | 8 | 6 | 50 |
| 245.2510 050 | 25 | 10 | 6 | 50 |
| 245.2512 050 | 25 | 12 | 6 | 50 |
| 245.2514 050 | 25 | 14 | 6 | 50 |
| 245.2516 050 | 25 | 16 | 6 | 50 |
| 245.2518 050 | 25 | 18 | 6 | 50 |
| 245.2520 050 | 25 | 20 | 6 | 50 |

BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|-------|------|---|----|
| 245.3108 062 | 31,75 | 8 | 6 | 62 |
| 245.3110 062 | 31,75 | 10 | 6 | 62 |
| 245.3112 062 | 31,75 | 12 | 6 | 62 |
| 245.3114 062 | 31,75 | 14 | 6 | 62 |
| 245.3116 062 | 31,75 | 16 | 6 | 62 |
| 245.3118 062 | 31,75 | 18 | 6 | 62 |
| 245.3120 062 | 31,75 | 20 | 6 | 62 |
| 245.3125 062 | 31,75 | 25 | 6 | 62 |
| 245.3126 062 | 31,75 | 25,4 | 6 | 62 |

BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES

| ART. (Code) | D | d | H | L |
|--------------|----|------|---|----|
| 245.3208 062 | 32 | 8 | 6 | 62 |
| 245.3210 062 | 32 | 10 | 6 | 62 |
| 245.3212 062 | 32 | 12 | 6 | 62 |
| 245.3214 062 | 32 | 14 | 6 | 62 |
| 245.3216 062 | 32 | 16 | 6 | 62 |
| 245.3218 062 | 32 | 18 | 6 | 62 |
| 245.3220 062 | 32 | 20 | 6 | 62 |
| 245.3225 040 | 32 | 25 | 7 | 40 |
| 245.3225 062 | 32 | 25 | 6 | 62 |
| 245.3226 062 | 32 | 25,4 | 6 | 62 |





BUSSOLE P. BARENI CON GRANI SENZA BATTUTA Tipo 246

BORING BAR SLEEVES

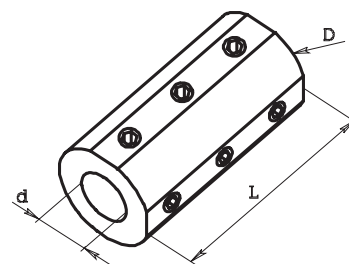
BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

| ART. (Code) | D | d | L |
|--------------|----|----|----|
| 246.2506 050 | 25 | 6 | 50 |
| 246.2508 050 | 25 | 8 | 50 |
| 246.2510 050 | 25 | 10 | 50 |
| 246.2512 050 | 25 | 12 | 50 |
| 246.2514 050 | 25 | 14 | 50 |
| 246.2516 050 | 25 | 16 | 50 |



BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

| ART. (Code) | D | d | L |
|--------------|-------|----|----|
| 246.3108 060 | 31,75 | 8 | 60 |
| 246.3110 060 | 31,75 | 10 | 60 |
| 246.3112 060 | 31,75 | 12 | 60 |
| 246.3114 060 | 31,75 | 14 | 60 |
| 246.3116 060 | 31,75 | 16 | 60 |
| 246.3118 060 | 31,75 | 18 | 60 |
| 246.3120 060 | 31,75 | 20 | 60 |



BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES

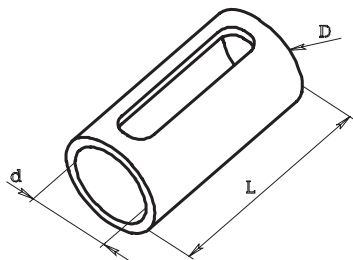
| ART. (Code) | D | d | L |
|--------------|----|----|----|
| 246.3208 060 | 32 | 8 | 60 |
| 246.3210 060 | 32 | 10 | 60 |
| 246.3212 060 | 32 | 12 | 60 |
| 246.3214 060 | 32 | 14 | 60 |
| 246.3216 060 | 32 | 16 | 60 |
| 246.3218 060 | 32 | 18 | 60 |
| 246.3220 060 | 32 | 20 | 60 |

BUSSOLE DIAMETRO 40 DIAMETER 40 BUSHES

| ART. (Code) | D | d | L |
|--------------|----|----|----|
| 246.4008 080 | 40 | 8 | 80 |
| 246.4010 080 | 40 | 10 | 80 |
| 246.4012 080 | 40 | 12 | 80 |
| 246.4016 080 | 40 | 16 | 80 |

BUSSOLE P. BARENI CON ASOLA SENZA BATTUTA Tipo 247

BORING BAR SLEEVES



BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

| ART. (Code) | D | d | L |
|--------------|----|----|----|
| 247.2508 050 | 25 | 8 | 50 |
| 247.2510 050 | 25 | 10 | 50 |
| 247.2512 050 | 25 | 12 | 50 |
| 247.2514 050 | 25 | 14 | 50 |
| 247.2516 050 | 25 | 16 | 50 |
| 247.2518 050 | 25 | 18 | 50 |
| 247.2520 050 | 25 | 20 | 50 |

BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES

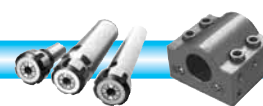
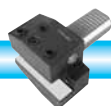
| ART. (Code) | D | d | L |
|--------------|----|----|----|
| 247.3208 060 | 32 | 8 | 60 |
| 247.3210 060 | 32 | 10 | 60 |
| 247.3212 060 | 32 | 12 | 60 |
| 247.3214 060 | 32 | 14 | 60 |
| 247.3216 060 | 32 | 16 | 60 |
| 247.3220 060 | 32 | 20 | 60 |
| 247.3225 060 | 32 | 25 | 60 |

BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

| ART. (Code) | D | d | L |
|--------------|-------|----|----|
| 247.3108 060 | 31,75 | 8 | 60 |
| 247.3110 060 | 31,75 | 10 | 60 |
| 247.3112 060 | 31,75 | 12 | 60 |
| 247.3114 060 | 31,75 | 14 | 60 |
| 247.3116 060 | 31,75 | 16 | 60 |
| 247.3120 060 | 31,75 | 18 | 60 |
| 247.3125 060 | 31,75 | 20 | 60 |

BUSSOLE DIAMETRO 40 DIAMETER 40 BUSHES

| ART. (Code) | D | d | L |
|--------------|----|----|----|
| 247.4020 080 | 40 | 20 | 80 |
| 247.4025 080 | 40 | 25 | 80 |
| 247.4032 080 | 40 | 32 | 80 |



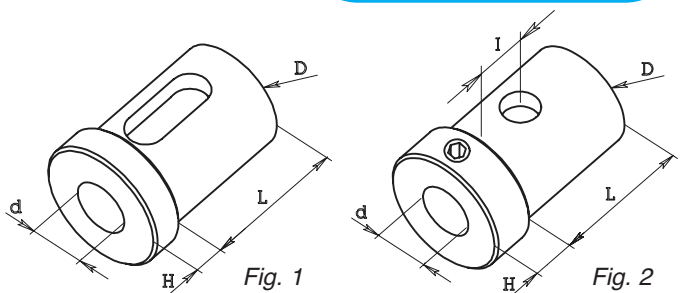
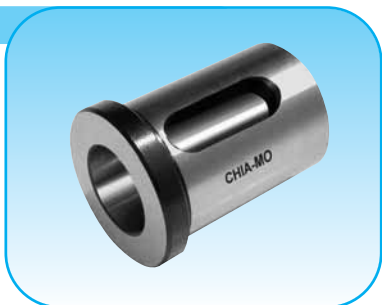


BUSSOLE CORTE CON FORO Tipo 248

BORING BAR SLEEVES

| Code | | | | | |
|--------------|----|----|---|----|------|
| ART. | D | d | H | L | fig. |
| 248.4016 053 | 40 | 16 | 7 | 53 | 1 |
| 248.4020 053 | 40 | 20 | 7 | 53 | 1 |
| 248.4025 053 | 40 | 25 | 7 | 53 | 1 |
| 248.4032 053 | 40 | 32 | 7 | 53 | 1 |

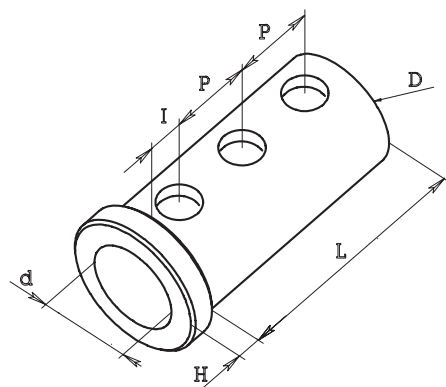
| Code | | | | | | |
|--------------|----|----|----|----|----|------|
| ART. | D | d | H | L | I | fig. |
| 248.5016 050 | 50 | 16 | 12 | 50 | 25 | 2 |
| 248.5020 050 | 50 | 20 | 12 | 50 | 25 | 2 |
| 248.5025 050 | 50 | 25 | 12 | 50 | 25 | 2 |
| 248.5032 050 | 50 | 32 | 12 | 50 | 25 | 2 |
| 248.5040 050 | 50 | 40 | 12 | 50 | 25 | 2 |



BUSSOLE PORTA BARENI CON FORI Tipo 248

BORING BAR SLEEVES

| Code | | | | | | |
|--------------|----|----|----|---|----|----|
| ART. | D | d | L | H | I | P |
| 248.4020 089 | 40 | 20 | 89 | 7 | 10 | 33 |
| 248.4025 089 | 40 | 25 | 89 | 7 | 10 | 33 |
| 248.4032 089 | 40 | 32 | 89 | 7 | 10 | 33 |



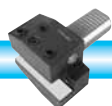
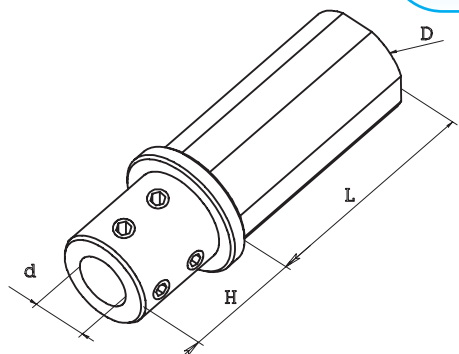
BUSSOLE PORTA BARENI PROLUNGATE Tipo 249

BORING BAR SLEEVES

| Code | | | | |
|--------------|----|----|----|----|
| ART. | D | d | L | H |
| 249.3206 070 | 32 | 6 | 70 | 27 |
| 249.3208 070 | 32 | 8 | 70 | 27 |
| 249.3210 070 | 32 | 10 | 70 | 27 |
| 249.3212 070 | 32 | 12 | 70 | 27 |
| 249.3216 070 | 32 | 16 | 70 | 27 |
| 249.3220 070 | 32 | 20 | 70 | 27 |



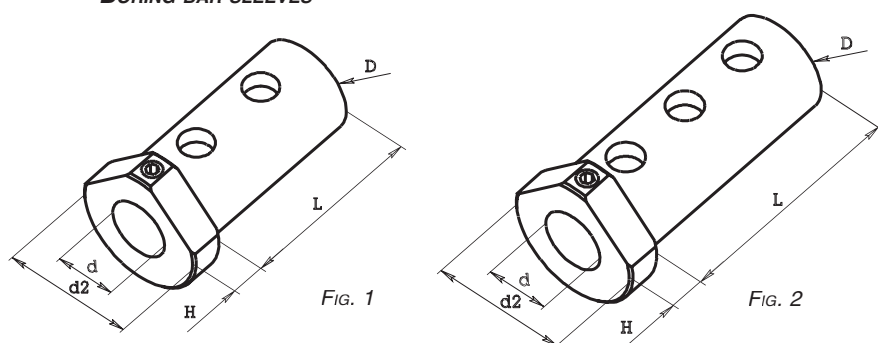
| Code | | | | |
|--------------|----|----|----|----|
| ART. | D | d | L | H |
| 249.4008 089 | 40 | 8 | 89 | 40 |
| 249.4010 089 | 40 | 10 | 89 | 40 |
| 249.4012.089 | 40 | 12 | 89 | 40 |
| 249.4016 089 | 40 | 16 | 89 | 40 |
| 249.4020 089 | 40 | 20 | 89 | 40 |
| 249.4025 089 | 40 | 25 | 89 | 40 |





BUSOLE PORTA BARENI Tipo 248

BORING BAR SLEEVES



Per macchina (for machine) : MURATA MW 12 G

| Code | | | | | | Hole diameter | Distance between holes | |
|--------------|----|----|------|----|----|---------------|------------------------|------|
| ART. | D | d | d2 | H | L | diametro fori | interasse fori | fig. |
| 248.4016 080 | 40 | 16 | 54.6 | 15 | 80 | 15 | 50 | 1 |
| 248.4020 080 | 40 | 20 | 54.6 | 15 | 80 | 15 | 50 | 1 |
| 248.4025 080 | 40 | 25 | 54.6 | 15 | 80 | 15 | 50 | 1 |
| 248.4032 080 | 40 | 32 | 54.6 | 15 | 80 | 15 | 50 | 1 |

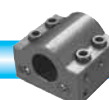
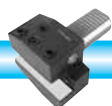
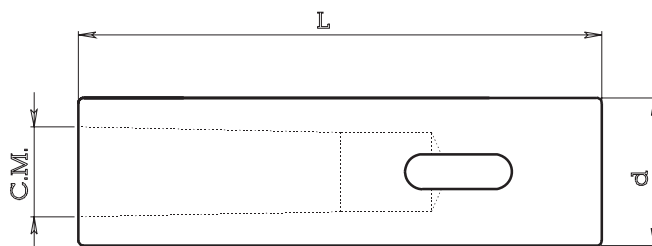
Per macchina (for machine) : MURATA MW 20 G

| ART. | D | d | d2 | H | L | diametro fori | interasse fori | fig. |
|--------------|----|----|------|----|-----|---------------|----------------|------|
| 248.4016 105 | 40 | 16 | 54.6 | 15 | 105 | 16 | 37.5 | 2 |
| 248.4020 105 | 40 | 20 | 54.6 | 15 | 105 | 16 | 37.5 | 2 |
| 248.4025 105 | 40 | 25 | 54.6 | 15 | 105 | 16 | 37.5 | 2 |
| 248.4032 105 | 40 | 32 | 54.6 | 15 | 105 | 16 | 37.5 | 2 |
| 248.5040 094 | 50 | 40 | 58 | 15 | 94 | 14 | 45 | 1 |

CANOTTI PER TORNI PLURIMANDRINO

MULTISPINDLE BUSHES

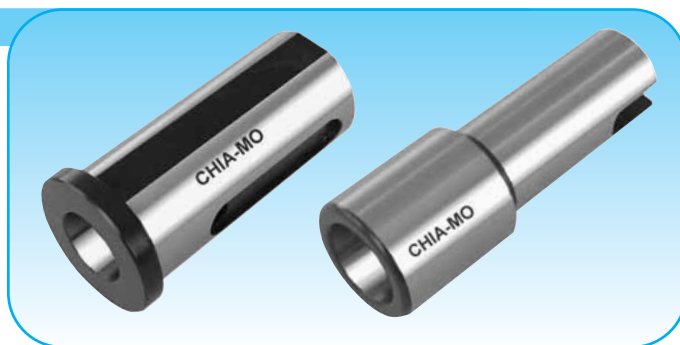
| Code | | | | MT |
|----------|-------|---|-----|------------|
| ART. | d | H | L | cono morse |
| 150.232P | 32 | — | 160 | C.M.2 |
| 150.238P | 38.10 | — | 160 | C.M.2 |
| 150.240P | 40 | — | 170 | C.M.2 |
| 150.244P | 44.45 | — | 170 | C.M.2 |
| 150.250P | 50 | — | 170 | C.M.2 |
| 150.251P | 50.80 | — | 170 | C.M.2 |
| 150.332P | 32 | — | 160 | C.M.3 |
| 150.338P | 38.10 | — | 160 | C.M.3 |
| 150.340P | 40 | — | 170 | C.M.3 |
| 150.344P | 44.45 | — | 170 | C.M.3 |
| 150.350P | 50 | — | 170 | C.M.3 |
| 150.351P | 50.80 | — | 170 | C.M.3 |
| 150.360P | 60 | — | 180 | C.M.3 |
| 150.363P | 63.50 | — | 180 | C.M.3 |
| 150.438P | 38.10 | — | 160 | C.M.4 |
| 150.440P | 40 | — | 170 | C.M.4 |
| 150.444P | 44.45 | — | 170 | C.M.4 |
| 150.450P | 50 | — | 170 | C.M.4 |
| 150.451P | 50.80 | — | 170 | C.M.4 |
| 150.460P | 60 | — | 180 | C.M.4 |
| 150.463P | 63.50 | — | 180 | C.M.4 |





BUSSOLE PER CONO MORSE Tipo 150 e 243

MORSE TAPER BUSHES



| Code | | | | | |
|---------|-------|------|----|-----|------|
| ART. | D | C.M. | H | L | Fig. |
| 150.119 | 19.05 | 1 | -- | 63 | 2 |
| 150.219 | 19.05 | 2 | 29 | 46 | 1 |
| 150.120 | 20 | 1 | -- | 63 | 2 |
| 150.220 | 20 | 2 | 29 | 46 | 1 |
| 150.122 | 22 | 1 | -- | 63 | 2 |
| 150.222 | 22 | 2 | 25 | 50 | 1 |
| 150.125 | 25 | 1 | -- | 63 | 2 |
| 150.225 | 25 | 2 | -- | 75 | 2 |
| 150.325 | 25 | 3 | 54 | 46 | 1 |
| 150.126 | 25.40 | 1 | -- | 63 | 2 |
| 150.226 | 25.40 | 2 | -- | 75 | 2 |
| 150.326 | 25.40 | 3 | 54 | 46 | 1 |
| 150.130 | 30 | 1 | -- | 63 | 2 |
| 150.230 | 30 | 2 | -- | 75 | 2 |
| 150.330 | 30 | 3 | -- | 100 | 2 |
| 150.131 | 31,75 | 1 | -- | 63 | 2 |
| 150.231 | 31,75 | 2 | -- | 75 | 2 |
| 150.331 | 31,75 | 3 | -- | 100 | 2 |
| 150.132 | 32 | 1 | -- | 63 | 2 |
| 150.232 | 32 | 2 | -- | 75 | 2 |
| 150.332 | 32 | 3 | -- | 100 | 2 |

| ART. | D | C.M. | H | L | Fig. |
|----------|-------|------|----|----|------|
| 243.2503 | 25 | 3 | 54 | 55 | 3 |
| 243.3102 | 31,75 | 2 | 7 | 78 | 3 |
| 243.3103 | 31,75 | 3 | 16 | 78 | 3 |
| 243.3201 | 32 | 1 | 7 | 70 | 3 |
| 243.3202 | 32 | 2 | 7 | 78 | 3 |
| 243.3203 | 32 | 3 | 16 | 78 | 3 |
| 243.4001 | 40 | 1 | 7 | 70 | 3 |
| 243.4002 | 40 | 2 | 7 | 89 | 3 |
| 243.4003 | 40 | 3 | 7 | 89 | 3 |
| 243.4004 | 40 | 4 | 29 | 89 | 3 |
| 243.5004 | 50 | 4 | 30 | 90 | 3 |

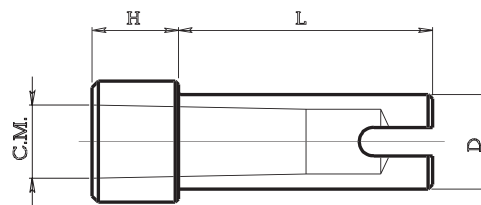


Fig. 1

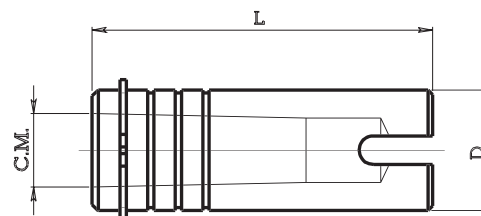


Fig. 2

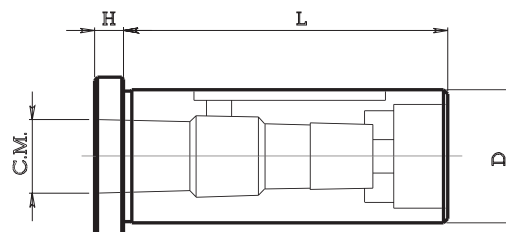
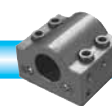
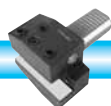


Fig. 3

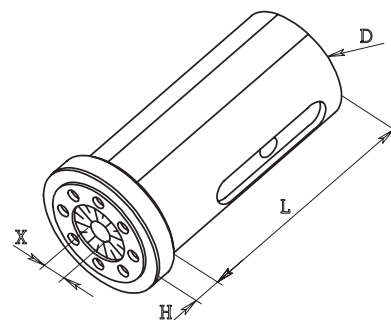




BUSSELE PORTA PINZA CON GHIERA INTERNA

BUSH (CYLINDRICAL CONNECTION)

| Code | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|----|---|----|----------|--------|-------------|-------------|--------------|
| ART. | D | H | L | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 168.132 070 | 32 | 5 | 70 | 0.5 - 13 | ERC 20 | 050.020 | 052.420 | 053.420 |
| 168.240 080 | 40 | 5 | 80 | 0.5 - 16 | ERC 25 | 050.025 | 052.425 | 053.425 |

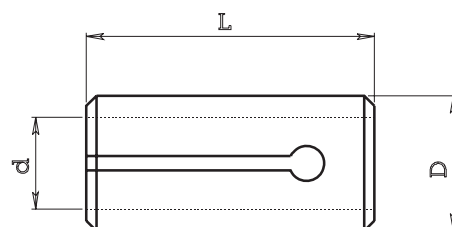


Con passaggio liquido refrigerante dall'interno
With inner coolant feeding system

ADATTATORI PER CODOLI Tipo 242

BUSH (CYLINDRICAL CONNECTION)

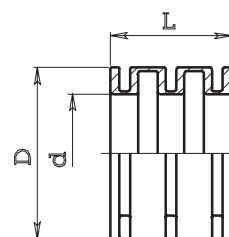
| Code | | | |
|---------|--------|-------|----|
| ART. | d | D | L |
| 242.115 | 15.875 | 19.05 | 46 |
| 242.116 | 16 | 19.05 | 46 |
| 242.219 | 19.05 | 22 | 46 |
| 242.220 | 20 | 22 | 46 |
| 242.319 | 19.05 | 25 | 46 |
| 242.320 | 20 | 25 | 46 |
| 242.322 | 22 | 25 | 46 |
| 242.415 | 15.875 | 25.40 | 46 |
| 242.416 | 16 | 25.40 | 46 |
| 242.419 | 19.05 | 25.40 | 46 |
| 242.420 | 20 | 25.40 | 46 |
| 242.422 | 22 | 25.40 | 46 |
| 242.522 | 22 | 30 | 46 |
| 242.525 | 25 | 30 | 46 |
| 242.526 | 25.40 | 30 | 46 |
| 242.622 | 22 | 31.75 | 46 |
| 242.625 | 25 | 31.75 | 46 |
| 242.626 | 25.40 | 31.75 | 46 |
| 242.722 | 22 | 32 | 46 |
| 242.725 | 25 | 32 | 46 |
| 242.726 | 25.40 | 32 | 46 |



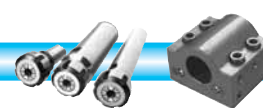
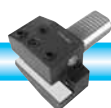
BOCCOLA Tipo 242

BUSH

| Code | | | |
|---------|------|----|----|
| ART. | d | D | L |
| 242.901 | 25,4 | 37 | 26 |



Per bloccaggio porta utensili su macchine Index E 42-60
For tighten up toolholders on Index E 42-60 machines

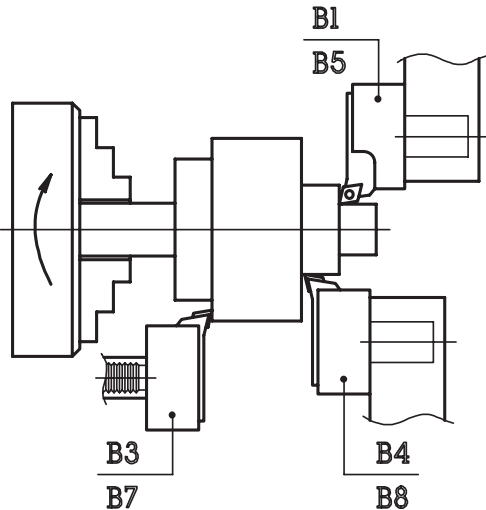




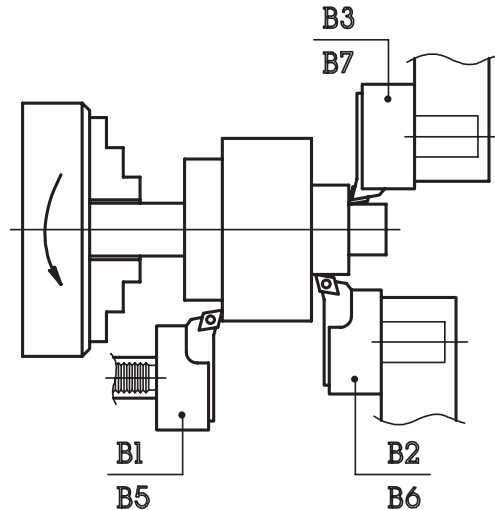
CHIA-MO

BOLOGNA - ITALY

**PORTAUTENSILI RADIALI
ROTAZIONE MANDRINO ORARIA**
RADIAL TOOLHOLDERS - CLOCKWISE SPINDLE ROTATION

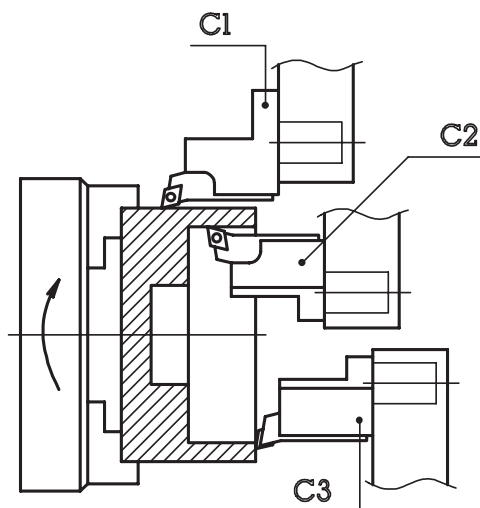


**PORTAUTENSILI RADIALI
ROTAZIONE MANDRINO ANTIORARIA**
RADIAL TOOLHOLDERS - COUNTERCLOCKWISE SPINDLE ROTATION

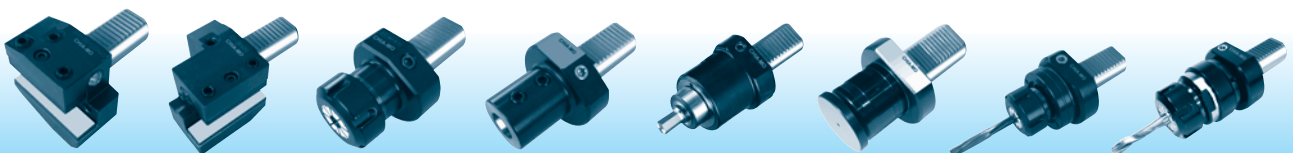
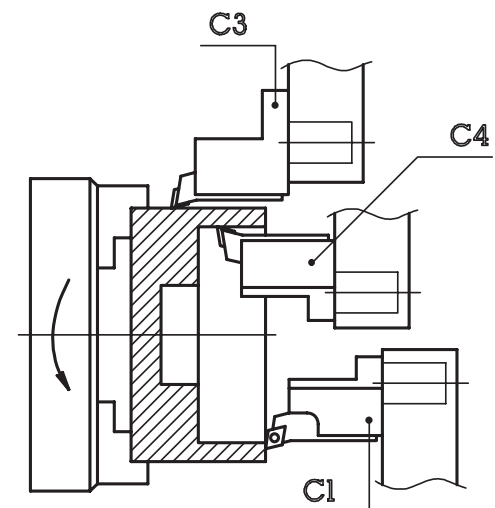


Portautensili VDI 3425-2 DIN 69880 TOOLHOLDERS VDI 3425-2 DIN 69880

**PORTAUTENSILI ASSIALI
ROTAZIONE MANDRINO ORARIA**
AXIAL TOOLHOLDERS - CLOCKWISE SPINDLE ROTATION



**PORTAUTENSILI ASSIALI
ROTAZIONE MANDRINO ANTIORARIA**
AXIAL TOOLHOLDERS - COUNTERCLOCKWISE SPINDLE ROTATION

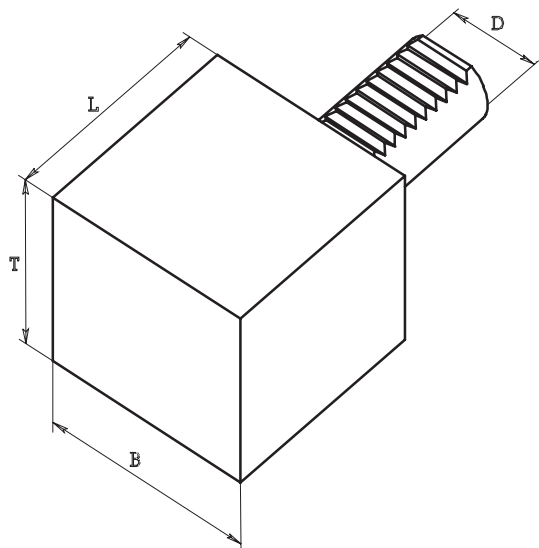




PORTAUTENSILI SEMILAVORATI

BLANK TOOLHOLDERS

Form A1

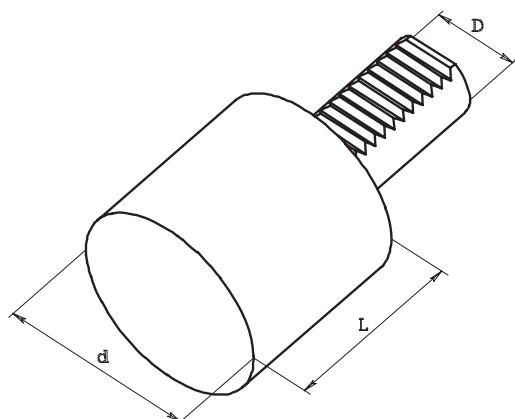


| Code | | | | |
|-------------|----|-----|-----|-----|
| ART. | D | B | T | L |
| 9 A1.16.44 | 16 | 78 | 44 | 44 |
| 9 A1.20.65 | 20 | 100 | 60 | 65 |
| 9 A1.25.75 | 25 | 100 | 60 | 75 |
| 9 A1.30.85 | 30 | 130 | 76 | 85 |
| 9 A1.40.100 | 40 | 151 | 96 | 100 |
| 9 A1.50.125 | 50 | 160 | 120 | 125 |
| 9 A1.60.160 | 60 | 165 | 125 | 160 |

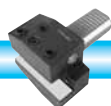
PORTAUTENSILI SEMILAVORATI

BLANK TOOLHOLDERS

Form A2



| Code | | | |
|-------------|----|-----|-----|
| ART. | D | d | L |
| 9 A2.16.60 | 16 | 40 | 60 |
| 9 A2.20.70 | 20 | 50 | 70 |
| 9 A2.25.80 | 25 | 58 | 80 |
| 9 A2.30.100 | 30 | 68 | 100 |
| 9 A2.30.240 | 30 | 68 | 240 |
| 9 A2.40.120 | 40 | 83 | 120 |
| 9 A2.40.320 | 40 | 83 | 320 |
| 9 A2.50.135 | 50 | 98 | 135 |
| 9 A2.50.400 | 50 | 98 | 400 |
| 9 A2.60.150 | 60 | 123 | 150 |
| 9 A2.60.480 | 60 | 123 | 480 |

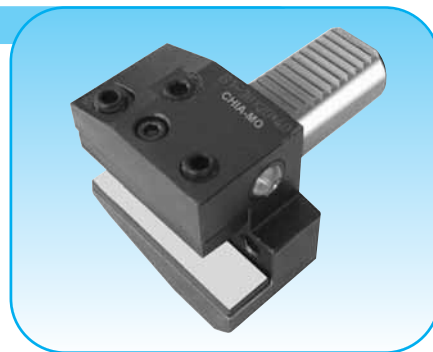
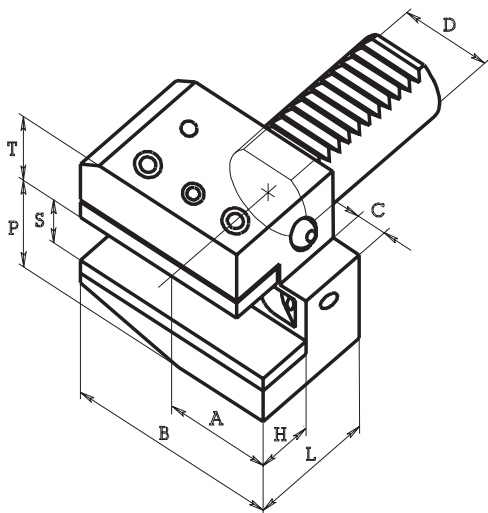




PORTAUTENSILE CON SEDE TRASVERSALE - DESTRO CORTO

RADIAL TOOLHOLDER - SHORT RIGHT

Form B1

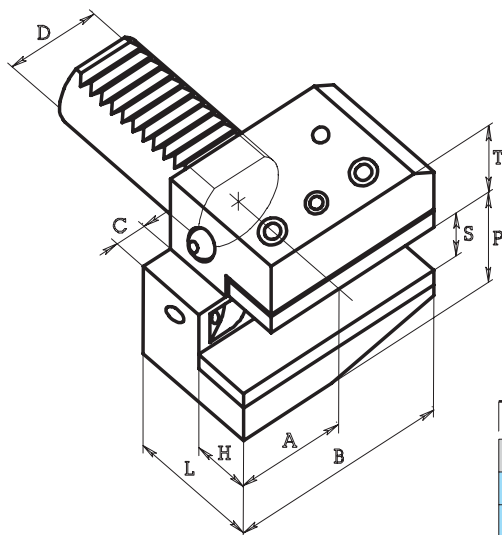


| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B1.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 23 | 42 | 5 |
| 9 B1.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 23 | 42 | 5 |
| 9 B1.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B1.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B1.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B1.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B1.30.20 | 30 | 20 / 16 | 38 | 28 | 40 | 18 | 35 | 70 | 10 |
| 9 B1.30.20L | 30 | 20 / 16 | 38 | 28 | 60 | 18 | 35 | 70 | 10 |
| 9 B1.40.25 | 40 | 25 / 20 | 48 | 32 | 44 | 22 | 42 | 85 | 12 |
| 9 B1.50.32 | 50 | 32 / 25 | 60 | 35 | 55 | 25 | 50 | 100 | 16 |
| 9 B1.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 60 | 30 | 62,5 | 125 | 16 |

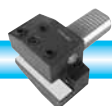
PORTAUTENSILE CON SEDE TRASVERSALE - SINISTRO CORTO

RADIAL TOOLHOLDER - SHORT LEFT

Form B2



| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B2.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 23 | 42 | 5 |
| 9 B2.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 23 | 42 | 5 |
| 9 B2.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B2.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B2.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B2.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B2.30.20 | 30 | 20 / 16 | 38 | 28 | 40 | 18 | 35 | 70 | 10 |
| 9 B2.30.20L | 30 | 20 / 16 | 38 | 28 | 60 | 18 | 35 | 70 | 10 |
| 9 B2.40.25 | 40 | 25 / 20 | 48 | 32 | 44 | 22 | 42 | 85 | 12 |
| 9 B2.50.32 | 50 | 32 / 25 | 60 | 35 | 55 | 25 | 50 | 100 | 16 |
| 9 B2.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 60 | 30 | 62,5 | 125 | 16 |

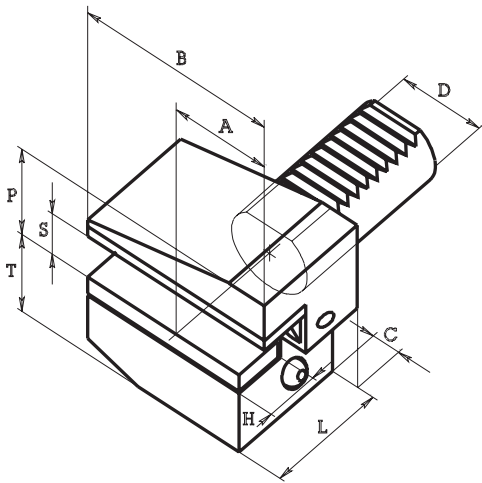




PORTAUTENSILE CON SEDE TRASV. - ROVESCIO DESTRO CORTO

RADIAL TOOLHOLDER - SHORT RIGHT REVERSED

Form B3

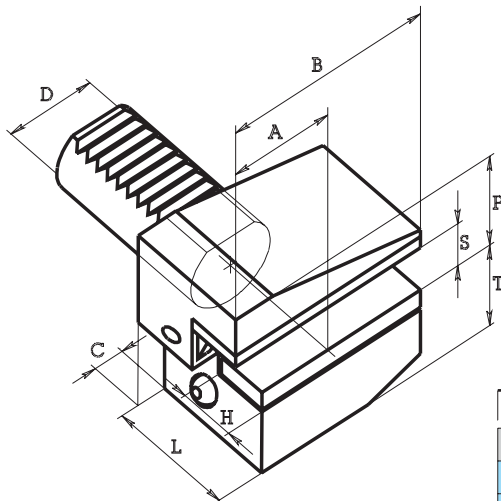


| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B3.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 23 | 42 | 5 |
| 9 B3.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 23 | 42 | 5 |
| 9 B3.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B3.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B3.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B3.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B3.30.20 | 30 | 20 / 16 | 38 | 28 | 40 | 18 | 35 | 70 | 10 |
| 9 B3.30.20L | 30 | 20 / 16 | 38 | 28 | 60 | 18 | 35 | 70 | 10 |
| 9 B3.40.25 | 40 | 25 / 20 | 48 | 32 | 44 | 22 | 42 | 85 | 12 |
| 9 B3.50.32 | 50 | 32 / 25 | 60 | 50 | 55 | 25 | 50 | 100 | 16 |
| 9 B3.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 60 | 30 | 62,5 | 125 | 16 |

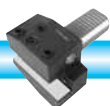
PORTAUTENSILE CON SEDE TRASV. - ROVESCIO SINISTRO CORTO

RADIAL TOOLHOLDER - SHORT LEFT REVERSED

Form B4



| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B4.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 23 | 42 | 5 |
| 9 B4.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 23 | 42 | 5 |
| 9 B4.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B4.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B4.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 30 | 55 | 7 |
| 9 B4.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 30 | 55 | 7 |
| 9 B4.30.20 | 30 | 20 / 16 | 38 | 28 | 40 | 18 | 35 | 70 | 10 |
| 9 B4.30.20L | 30 | 20 / 16 | 38 | 28 | 60 | 18 | 35 | 70 | 10 |
| 9 B4.40.25 | 40 | 25 / 20 | 48 | 32 | 44 | 22 | 42 | 85 | 12 |
| 9 B4.50.32 | 50 | 32 / 25 | 60 | 50 | 55 | 25 | 50 | 100 | 16 |
| 9 B4.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 60 | 30 | 62,5 | 125 | 16 |

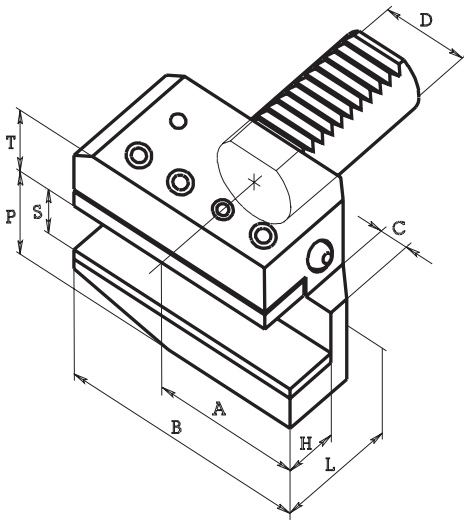




PORTAUTENSILE CON SEDE TRASVERSALE - DESTRO LUNGO

RADIAL TOOLHOLDER - LONG RIGHT

Form B5

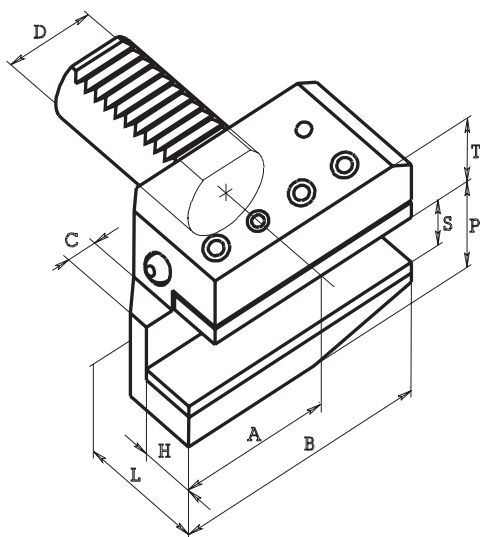


| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B5.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 39 | 58 | 5 |
| 9 B5.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 39 | 58 | 5 |
| 9 B5.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B5.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B5.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B5.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B5.30.20 | 30 | 20 / 16 | 38 | 28 | 40 | 18 | 65 | 100 | 10 |
| 9 B5.30.20L | 30 | 20 / 16 | 38 | 28 | 60 | 18 | 65 | 100 | 10 |
| 9 B5.40.25 | 40 | 25 / 20 | 48 | 32 | 44 | 22 | 75 | 118 | 12 |
| 9 B5.50.32 | 50 | 32 / 25 | 60 | 35 | 55 | 25 | 80 | 130 | 16 |
| 9 B5.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 60 | 30 | 82,5 | 145 | 16 |

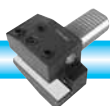
PORTAUTENSILE CON SEDE TRASVERSALE - SINISTRO LUNGO

RADIAL TOOLHOLDER - LONG LEFT

Form B6



| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B6.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 39 | 58 | 5 |
| 9 B6.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 39 | 58 | 5 |
| 9 B6.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B6.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B6.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B6.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B6.30.20 | 30 | 20 / 16 | 38 | 28 | 40 | 18 | 65 | 100 | 10 |
| 9 B6.30.20L | 30 | 20 / 16 | 38 | 28 | 60 | 18 | 65 | 100 | 10 |
| 9 B6.40.25 | 40 | 25 / 20 | 48 | 32 | 44 | 22 | 75 | 118 | 12 |
| 9 B6.50.32 | 50 | 32 / 25 | 60 | 35 | 55 | 25 | 80 | 130 | 16 |
| 9 B6.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 60 | 30 | 82,5 | 145 | 16 |

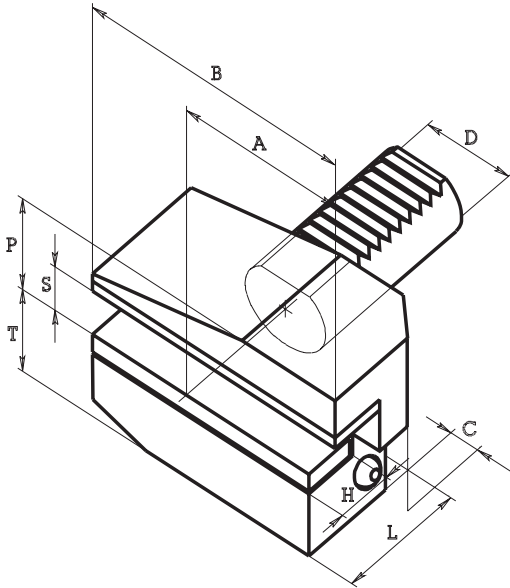
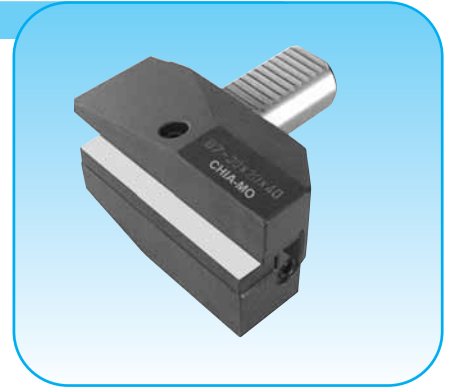




PORTAUTENSILE CON SEDE TRASV. - ROVESCIO DESTRO LUNGO

RADIAL TOOLHOLDER - LONG RIGHT REVERSED

Form B7

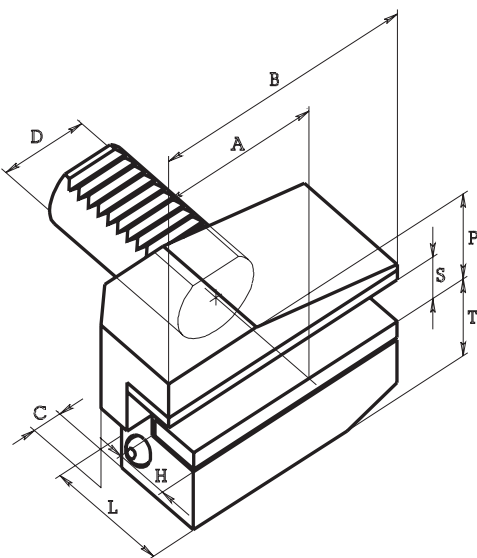


| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B7.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 39 | 58 | 5 |
| 9 B7.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 39 | 58 | 5 |
| 9 B7.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B7.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B7.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B7.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B7.30.20 | 30 | 20 / 16 | 38 | 35 | 40 | 18 | 65 | 100 | 10 |
| 9 B7.30.20L | 30 | 20 / 16 | 38 | 35 | 60 | 18 | 65 | 100 | 10 |
| 9 B7.40.25 | 40 | 25 / 20 | 48 | 42 | 44 | 22 | 75 | 118 | 12 |
| 9 B7.50.32 | 50 | 32 / 25 | 60 | 50 | 55 | 25 | 80 | 130 | 16 |
| 9 B7.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 60 | 30 | 82,5 | 145 | 16 |

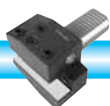
PORTAUTENSILE CON SEDE TRASV. - ROVESCIO SINISTRO LUNGO

RADIAL TOOLHOLDER - LONG LEFT REVERSED

Form B8



| Code | | | | | | | | | |
|-------------|----|---------|------|------|----|----|------|-----|----|
| ART. | D | S | P | T | L | H | A | B | C |
| 9 B8.16.12 | 16 | 12 / 10 | 22 | 20 | 24 | 11 | 39 | 58 | 5 |
| 9 B8.16.12L | 16 | 12 / 10 | 22 | 20 | 34 | 11 | 39 | 58 | 5 |
| 9 B8.20.16 | 20 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B8.20.16L | 20 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B8.25.16 | 25 | 16 / 12 | 30 | 25 | 30 | 14 | 50 | 75 | 7 |
| 9 B8.25.16L | 25 | 16 / 12 | 30 | 25 | 40 | 14 | 50 | 75 | 7 |
| 9 B8.30.20 | 30 | 20 / 16 | 38 | 35 | 40 | 18 | 65 | 100 | 10 |
| 9 B8.30.20L | 30 | 20 / 16 | 38 | 35 | 60 | 18 | 65 | 100 | 10 |
| 9 B8.40.25 | 40 | 25 / 20 | 48 | 42 | 44 | 22 | 75 | 118 | 12 |
| 9 B8.50.32 | 50 | 32 / 25 | 60 | 50 | 55 | 25 | 80 | 130 | 16 |
| 9 B8.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 60 | 30 | 82,5 | 145 | 16 |

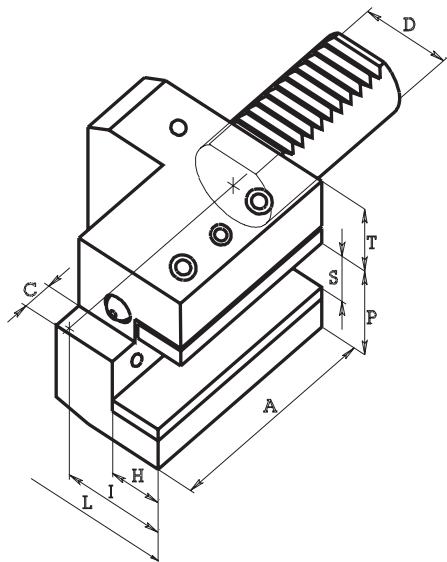




PORTAUTENSILE CON SEDE LONGITUDINALE - DESTRO

AXIAL TOOLHOLDER - RIGHT

Form C1

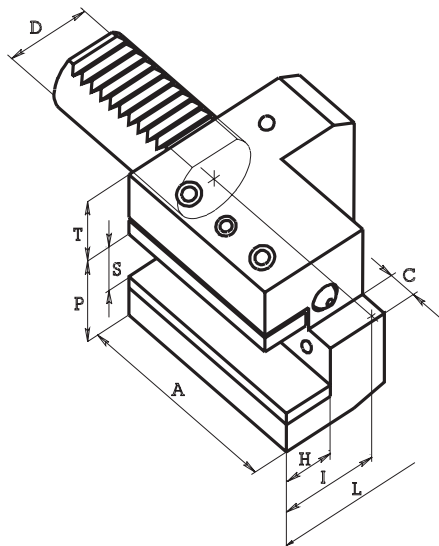


| Code | | | | | | | | | |
|------------|----|---------|------|------|-----|------|----|-----|----|
| ART. | D | S | P | T | L | I | H | A | C |
| 9 C1.16.12 | 16 | 12 / 10 | 22 | 20 | 43 | 24 | 11 | 44 | 5 |
| 9 C1.20.16 | 20 | 16 / 12 | 30 | 25 | 65 | 40 | 14 | 50 | 7 |
| 9 C1.25.16 | 25 | 16 / 12 | 30 | 25 | 58 | 33 | 14 | 55 | 7 |
| 9 C1.30.20 | 30 | 20 / 16 | 38 | 28 | 70 | 35 | 18 | 70 | 10 |
| 9 C1.40.25 | 40 | 25 / 20 | 48 | 32 | 85 | 48 | 22 | 85 | 12 |
| 9 C1.50.32 | 50 | 32 / 25 | 60 | 35 | 100 | 50 | 24 | 100 | 16 |
| 9 C1.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 125 | 62,5 | 30 | 125 | 16 |

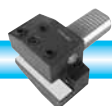
PORTAUTENSILE CON SEDE LONGITUDINALE - SINISTRO

AXIAL TOOLHOLDER - LEFT

Form C2



| Code | | | | | | | | | |
|------------|----|---------|------|------|-----|------|----|-----|----|
| ART. | D | S | P | T | L | I | H | A | C |
| 9 C2.16.12 | 16 | 12 / 10 | 22 | 20 | 43 | 24 | 11 | 44 | 5 |
| 9 C2.20.16 | 20 | 16 / 12 | 30 | 25 | 65 | 40 | 14 | 50 | 7 |
| 9 C2.25.16 | 25 | 16 / 12 | 30 | 25 | 58 | 33 | 14 | 55 | 7 |
| 9 C2.30.20 | 30 | 20 / 16 | 38 | 28 | 76 | 40 | 18 | 70 | 10 |
| 9 C2.40.25 | 40 | 25 / 20 | 48 | 32 | 90 | 48 | 22 | 85 | 12 |
| 9 C2.50.32 | 50 | 32 / 25 | 60 | 35 | 105 | 55 | 25 | 100 | 16 |
| 9 C2.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 125 | 62,5 | 30 | 125 | 16 |

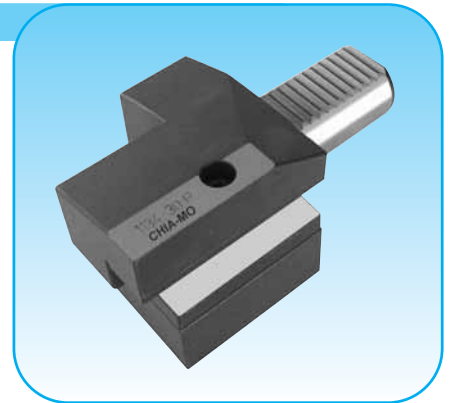
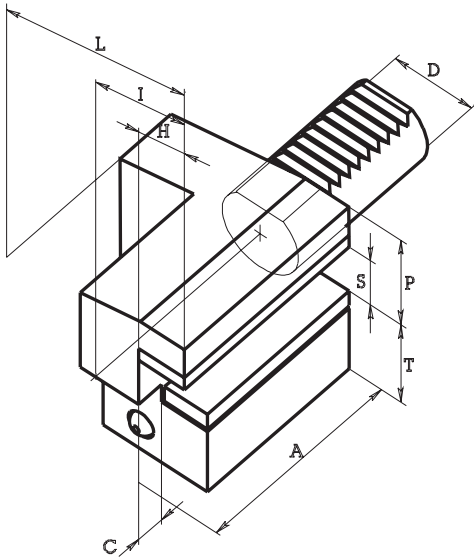




PORTAUTENSILE CON SEDE LONGIT. - ROVESCiato DESTRO

AXIAL TOOLHOLDER - RIGHT REVERSED

Form C3

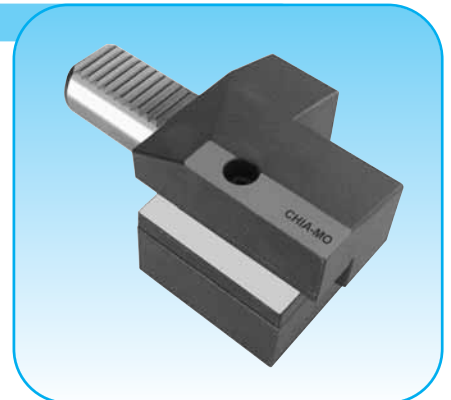
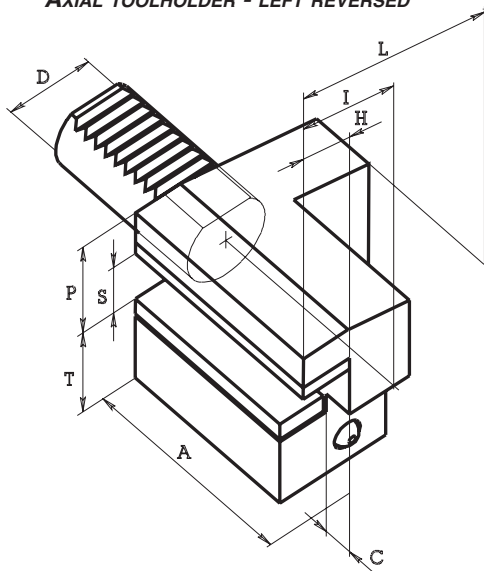


| Code | | | | | | | | | |
|------------|----|---------|------|------|-----|------|----|-----|----|
| ART. | D | S | P | T | L | I | H | A | C |
| 9 C3.16.12 | 16 | 12 / 10 | 22 | 20 | 43 | 24 | 11 | 44 | 5 |
| 9 C3.20.16 | 20 | 16 / 12 | 30 | 25 | 65 | 40 | 14 | 50 | 7 |
| 9 C3.25.16 | 25 | 16 / 12 | 30 | 25 | 58 | 33 | 14 | 55 | 7 |
| 9 C3.30.20 | 30 | 20 / 16 | 38 | 35 | 70 | 35 | 18 | 70 | 10 |
| 9 C3.40.25 | 40 | 25 / 20 | 48 | 42 | 85 | 48 | 22 | 85 | 12 |
| 9 C3.50.32 | 50 | 32 / 25 | 60 | 50 | 100 | 50 | 24 | 100 | 16 |
| 9 C3.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 125 | 62,5 | 30 | 125 | 16 |

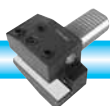
PORTAUTENSILE CON SEDE LONGIT. - ROVESCiato SINISTRO

AXIAL TOOLHOLDER - LEFT REVERSED

Form C4



| Code | | | | | | | | | |
|------------|----|---------|------|------|-----|------|----|-----|----|
| ART. | D | S | P | T | L | I | H | A | C |
| 9 C4.16.12 | 16 | 12 / 10 | 22 | 20 | 43 | 24 | 11 | 44 | 5 |
| 9 C4.20.16 | 20 | 16 / 12 | 30 | 25 | 65 | 40 | 14 | 50 | 7 |
| 9 C4.25.16 | 25 | 16 / 12 | 25 | 25 | 58 | 33 | 14 | 55 | 7 |
| 9 C4.30.20 | 30 | 20 / 16 | 38 | 35 | 76 | 35 | 18 | 70 | 10 |
| 9 C4.40.25 | 40 | 25 / 20 | 48 | 42 | 90 | 48 | 22 | 85 | 12 |
| 9 C4.50.32 | 50 | 32 / 25 | 60 | 50 | 105 | 50 | 24 | 100 | 16 |
| 9 C4.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 125 | 62,5 | 30 | 125 | 16 |



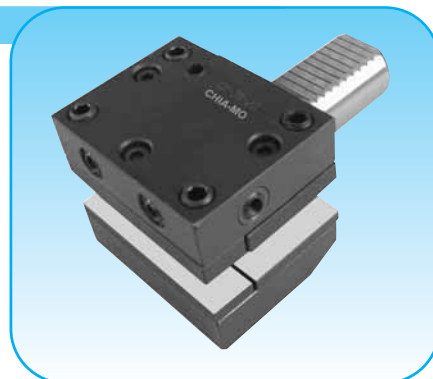
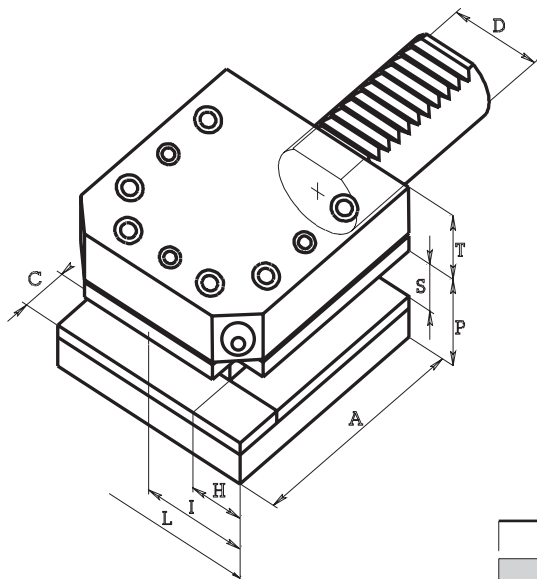
**CHIA-MO**

BOLOGNA - ITALY

PORTAUTENSILI VDI 3425-2 DIN 69880
TOOLHOLDERS VDI 3425-2 DIN 69880**PORTAUTENSILE A PIU' SEDI RETTANGOLARI - DESTRO**

MULTI - SEATS TOOLHOLDER - RIGHT

Form D1

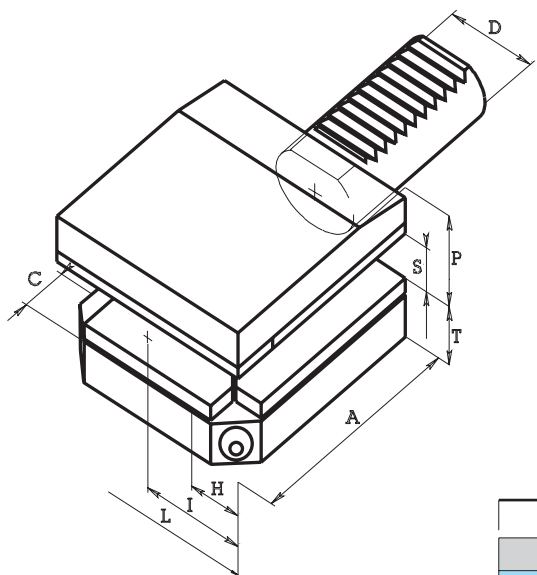


| Code | | | | | | | | | |
|------------|----|---------|------|------|-----|------|------|-----|----|
| ART. | D | S | P | T | L | I | H | A | C |
| 9 D1.25.16 | 25 | 16 / 12 | 30 | 25 | 66 | 33 | 14 | 48 | 14 |
| 9 D1.30.20 | 30 | 20 / 16 | 38 | 28 | 76 | 35 | 18 | 60 | 18 |
| 9 D1.40.25 | 40 | 25 / 20 | 48 | 32 | 90 | 42,5 | 22 | 72 | 22 |
| 9 D1.50.32 | 50 | 32 / 25 | 60 | 35 | 105 | 50 | 24 | 85 | 25 |
| 9 D1.60.32 | 60 | 32 / 25 | 62,5 | 42,5 | 115 | 57,5 | 24,5 | 110 | 25 |

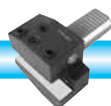
PORTAUTENSILE A PIU' SEDI RETTANGOLARI - SINISTRO

MULTI - SEATS TOOLHOLDER - LEFT

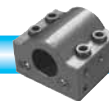
Form D2



| Code | | | | | | | | | |
|------------|----|---------|------|------|-----|------|------|-----|----|
| ART. | D | S | P | T | L | I | H | A | C |
| 9 D2.25.16 | 25 | 16 / 12 | 30 | 25 | 66 | 33 | 14 | 48 | 14 |
| 9 D2.30.20 | 30 | 20 / 16 | 38 | 35 | 76 | 35 | 18 | 60 | 18 |
| 9 D2.40.25 | 40 | 25 / 20 | 48 | 42,5 | 90 | 42,5 | 22 | 72 | 22 |
| 9 D2.50.32 | 50 | 32 / 25 | 60 | 50 | 105 | 50 | 24 | 85 | 25 |
| 9 D2.60.32 | 60 | 32 / 25 | 62,5 | 62,5 | 115 | 57,5 | 24,5 | 110 | 25 |

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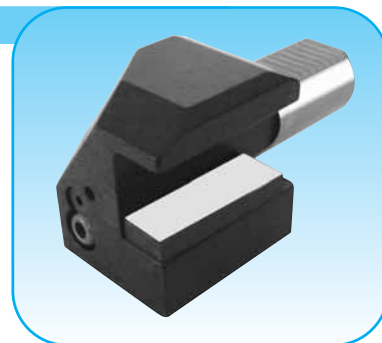
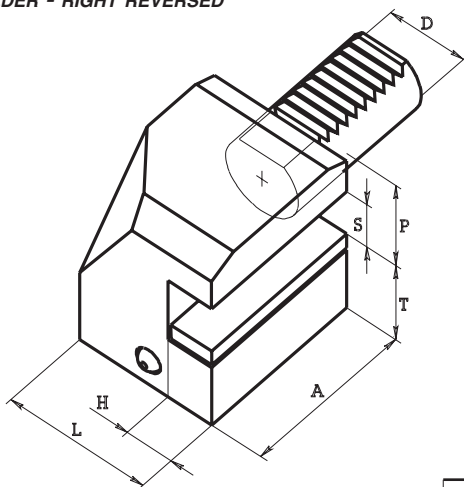
58

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PORTAUTENSILE CON SEDE LONGITUDINALE - ROVESCiato DESTRO

AXIAL TOOLHOLDER - RIGHT REVERSED



SPECIALE PER MACCHINE "INDEX"
Special for "Index" machines

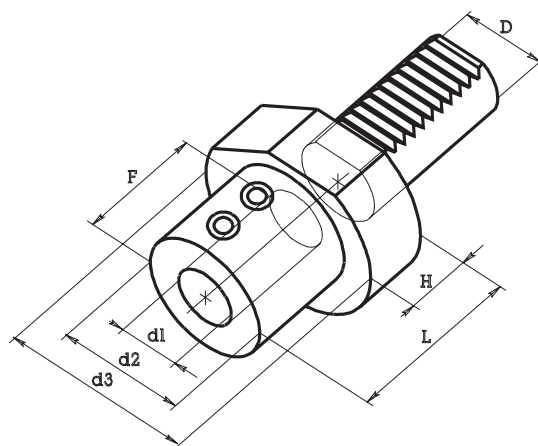
| Code | | | | | | | |
|---------------------|----|----|----|----|----|----|----|
| ART. | D | S | P | T | L | H | A |
| 9 C3.30.20 B | 30 | 20 | 32 | 30 | 53 | 18 | 56 |

PORTA PUNTE AD INSERTI (Weldon DIN 1835)

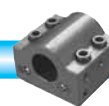
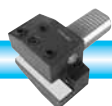
INSERT DRILL SPINDLES

| Code | | | | | | | |
|-------------------|----|----|----|-----|----|-----|----|
| ART. | D | d1 | d2 | d3 | F | L | H |
| 9 E1.20.16 | 20 | 16 | 36 | 50 | 51 | 64 | 18 |
| 9 E1.20.20 | 20 | 20 | 40 | 50 | 54 | 67 | 18 |
| 9 E1.20.25 | 20 | 25 | 45 | 50 | 59 | 71 | 18 |
| 9 E1.25.20 | 25 | 20 | 40 | 58 | 54 | 67 | 20 |
| 9 E1.25.25 | 25 | 25 | 45 | 58 | 59 | 71 | 20 |
| 9 E1.30.16 | 30 | 16 | 36 | 68 | 51 | 64 | 22 |
| 9 E1.30.20 | 30 | 20 | 40 | 68 | 54 | 67 | 22 |
| 9 E1.30.25 | 30 | 25 | 45 | 68 | 59 | 71 | 22 |
| 9 E1.30.32 | 30 | 32 | 52 | 68 | 63 | 75 | 22 |
| 9 E1.40.16 | 40 | 16 | 36 | 83 | 51 | 64 | 22 |
| 9 E1.40.20 | 40 | 20 | 40 | 83 | 54 | 67 | 22 |
| 9 E1.40.25 | 40 | 25 | 45 | 83 | 59 | 75 | 22 |
| 9 E1.40.32 | 40 | 32 | 52 | 83 | 63 | 75 | 22 |
| 9 E1.40.40 | 40 | 40 | 65 | 83 | 73 | 90 | 22 |
| 9 E1.50.20 | 50 | 20 | 40 | 98 | 54 | 67 | 30 |
| 9 E1.50.25 | 50 | 25 | 45 | 98 | 59 | 80 | 30 |
| 9 E1.50.32 | 50 | 32 | 52 | 98 | 63 | 80 | 30 |
| 9 E1.50.40 | 50 | 40 | 65 | 98 | 73 | 90 | 30 |
| 9 E1.50.50 | 50 | 50 | 75 | 98 | 83 | 100 | 30 |
| 9 E1.60.20 | 60 | 20 | 40 | 123 | 54 | 80 | 30 |
| 9 E1.60.25 | 60 | 25 | 45 | 123 | 59 | 80 | 30 |
| 9 E1.60.32 | 60 | 32 | 52 | 123 | 63 | 80 | 30 |
| 9 E1.60.40 | 60 | 40 | 60 | 123 | 73 | 90 | 30 |
| 9 E1.60.50 | 60 | 50 | 70 | 123 | 83 | 100 | 30 |

Form E1



Con passaggio liquido refrigerante dall'interno
With inner coolant feeding system





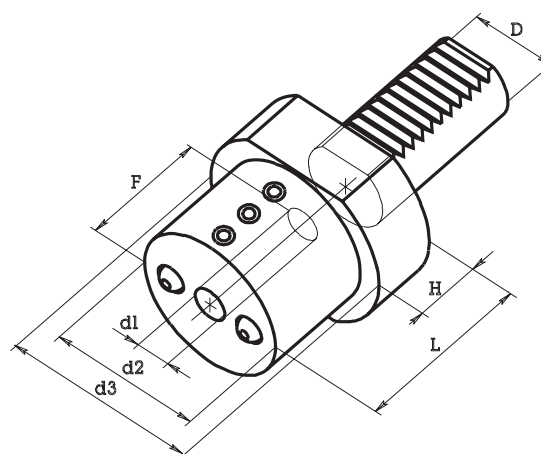
PORTA BARENI

BORING BAR HOLDERS

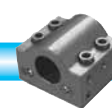
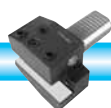
Form E2



| Code | | | | | | | |
|------------|----|----|----|-----|----|-----|----|
| ART. | D | d1 | d2 | d3 | F | L | H |
| 9 E2.16.08 | 16 | 8 | 32 | 40 | 34 | 44 | 18 |
| 9 E2.16.10 | 16 | 10 | 32 | 40 | 34 | 44 | 18 |
| 9 E2.16.12 | 16 | 12 | 40 | 40 | 34 | 44 | — |
| 9 E2.16.16 | 16 | 16 | 40 | 40 | 34 | 44 | — |
| 9 E2.20.08 | 20 | 8 | 40 | 50 | 41 | 50 | 18 |
| 9 E2.20.10 | 20 | 10 | 40 | 50 | 41 | 50 | 18 |
| 9 E2.20.12 | 20 | 12 | 40 | 50 | 41 | 50 | 18 |
| 9 E2.20.16 | 20 | 16 | 40 | 50 | 41 | 50 | 18 |
| 9 E2.20.20 | 20 | 20 | 50 | 50 | 41 | 50 | — |
| 9 E2.20.25 | 20 | 25 | 50 | 50 | 51 | 60 | — |
| 9 E2.25.08 | 25 | 8 | 45 | 58 | 41 | 50 | 20 |
| 9 E2.25.10 | 25 | 10 | 45 | 58 | 41 | 50 | 20 |
| 9 E2.25.12 | 25 | 12 | 45 | 58 | 41 | 50 | 20 |
| 9 E2.25.16 | 25 | 16 | 45 | 58 | 41 | 50 | 20 |
| 9 E2.25.20 | 25 | 20 | 58 | 58 | 41 | 50 | — |
| 9 E2.25.25 | 25 | 25 | 58 | 58 | 51 | 60 | — |
| 9 E2.30.08 | 30 | 8 | 55 | 68 | 51 | 60 | 22 |
| 9 E2.30.10 | 30 | 10 | 55 | 68 | 51 | 60 | 22 |
| 9 E2.30.12 | 30 | 12 | 55 | 68 | 51 | 60 | 22 |
| 9 E2.30.16 | 30 | 16 | 55 | 68 | 51 | 60 | 22 |
| 9 E2.30.20 | 30 | 20 | 55 | 68 | 51 | 60 | 22 |
| 9 E2.30.25 | 30 | 25 | 55 | 68 | 51 | 60 | 22 |
| 9 E2.30.32 | 30 | 32 | 68 | 68 | 61 | 75 | — |
| 9 E2.40.12 | 40 | 12 | 55 | 83 | 61 | 75 | 22 |
| 9 E2.40.16 | 40 | 16 | 55 | 83 | 61 | 75 | 22 |
| 9 E2.40.20 | 40 | 20 | 55 | 83 | 61 | 75 | 22 |
| 9 E2.40.25 | 40 | 25 | 60 | 83 | 61 | 75 | 22 |
| 9 E2.40.32 | 40 | 32 | 83 | 83 | 61 | 75 | — |
| 9 E2.40.40 | 40 | 40 | 83 | 83 | 76 | 90 | — |
| 9 E2.50.16 | 50 | 16 | 55 | 98 | 76 | 90 | 30 |
| 9 E2.50.20 | 50 | 20 | 55 | 98 | 76 | 90 | 30 |
| 9 E2.50.25 | 50 | 25 | 65 | 98 | 76 | 90 | 30 |
| 9 E2.50.32 | 50 | 32 | 83 | 98 | 76 | 90 | 30 |
| 9 E2.50.40 | 50 | 40 | 83 | 98 | 76 | 90 | 30 |
| 9 E2.50.50 | 50 | 50 | 90 | 98 | 86 | 100 | 30 |
| 9 E2.60.16 | 60 | 16 | 68 | 123 | 76 | 90 | 30 |
| 9 E2.60.20 | 60 | 20 | 68 | 123 | 76 | 90 | 30 |
| 9 E2.60.25 | 60 | 25 | 68 | 123 | 76 | 90 | 30 |
| 9 E2.60.32 | 60 | 32 | 68 | 123 | 76 | 90 | 30 |
| 9 E2.60.40 | 60 | 40 | 98 | 123 | 76 | 90 | 30 |
| 9 E2.60.50 | 60 | 50 | 98 | 123 | 86 | 100 | 30 |



Con passaggio liquido refrigerante esterno ed interno
With inner and outer coolant feeding system





PORTAUTENSILE PORTA PINZE ERC

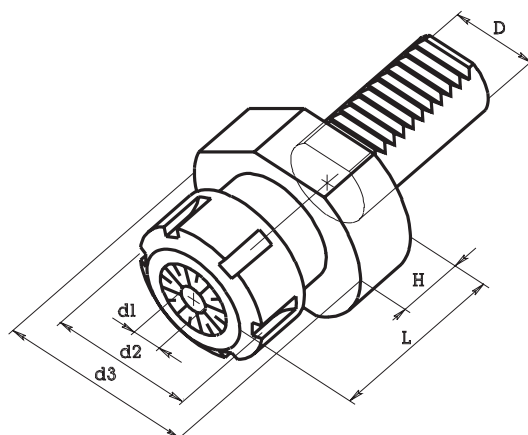
COLLET SPINDLE HOLDERS

Form E4

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | Collet | | | | | | |
|------------|----|--------|--------|--------|----|-----|----|----|
| ART. | D | Pinza | d1 min | d1 max | d2 | d3 | H | L |
| 9 E4.16.16 | 16 | ERC 16 | 1 | 10 | 28 | 40 | 15 | 40 |
| 9 E4.16.20 | 16 | ERC 20 | 1 | 13 | 34 | 40 | 15 | 44 |
| 9 E4.20.16 | 20 | ERC 16 | 1 | 10 | 28 | 50 | 20 | 45 |
| 9 E4.20.20 | 20 | ERC 20 | 1 | 13 | 34 | 50 | 20 | 53 |
| 9 E4.20.25 | 20 | ERC 25 | 1 | 16 | 42 | 50 | 20 | 57 |
| 9 E4.20.32 | 20 | ERC 32 | 2 | 20 | 50 | 50 | 20 | 64 |
| 9 E4.25.25 | 25 | ERC 25 | 1 | 16 | 42 | 58 | 20 | 57 |
| 9 E4.25.32 | 25 | ERC 32 | 2 | 20 | 50 | 58 | 20 | 62 |
| 9 E4.30.25 | 30 | ERC 25 | 1 | 16 | 42 | 68 | 23 | 60 |
| 9 E4.30.32 | 30 | ERC 32 | 2 | 20 | 50 | 68 | 23 | 67 |
| 9 E4.30.40 | 30 | ERC 40 | 3 | 30 | 63 | 68 | 23 | 70 |
| 9 E4.40.25 | 40 | ERC 25 | 1 | 16 | 42 | 83 | 23 | 65 |
| 9 E4.40.32 | 40 | ERC 32 | 2 | 20 | 50 | 83 | 23 | 67 |
| 9 E4.40.40 | 40 | ERC 40 | 3 | 30 | 63 | 83 | 23 | 75 |
| 9 E4.50.32 | 50 | ERC 32 | 2 | 20 | 50 | 98 | 30 | 84 |
| 9 E4.50.40 | 50 | ERC 40 | 3 | 30 | 63 | 98 | 30 | 90 |
| 9 E4.60.40 | 60 | ERC 40 | 3 | 30 | 63 | 123 | 30 | 90 |



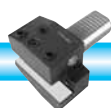
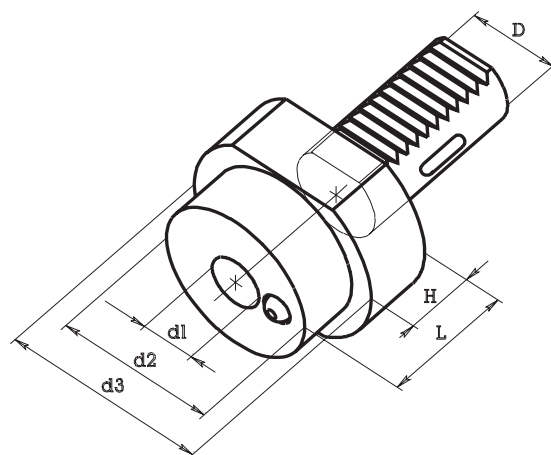
PORTAUTENSILE PER CONO MORSE

TOOLHOLDER FOR MORSE TAPER

Form F1



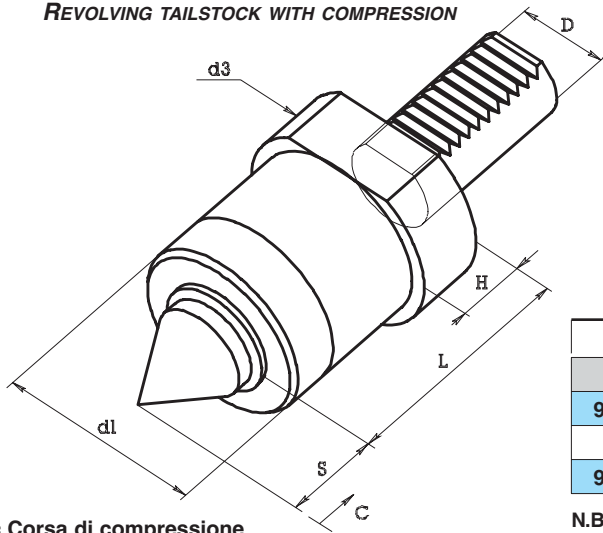
| Code | | | | | | |
|------------|----|---------|----|-----|----|----|
| ART. | D | d1 C.M. | d2 | d3 | L | H |
| 9 F1.20.01 | 20 | C.M. 1 | 50 | 50 | 22 | -- |
| 9 F1.25.01 | 25 | C.M. 1 | 58 | 58 | 22 | -- |
| 9 F1.30.01 | 30 | C.M. 1 | 68 | 68 | 27 | -- |
| 9 F1.30.02 | 30 | C.M. 2 | 58 | 68 | 36 | 25 |
| 9 F1.30.03 | 30 | C.M. 3 | 58 | 68 | 66 | 25 |
| 9 F1.40.02 | 40 | C.M. 2 | 58 | 83 | 36 | 22 |
| 9 F1.40.03 | 40 | C.M. 3 | 58 | 83 | 50 | 22 |
| 9 F1.40.04 | 40 | C.M. 4 | 68 | 83 | 80 | 22 |
| 9 F1.50.02 | 50 | C.M. 2 | 58 | 98 | 36 | 30 |
| 9 F1.50.03 | 50 | C.M. 3 | 58 | 98 | 45 | 30 |
| 9 F1.50.04 | 50 | C.M. 4 | 68 | 98 | 55 | 30 |
| 9 F1.50.05 | 50 | C.M. 5 | 75 | 98 | 68 | 30 |
| 9 F1.60.03 | 60 | C.M. 3 | 58 | 123 | 47 | 30 |
| 9 F1.60.04 | 60 | C.M. 4 | 68 | 123 | 58 | 30 |
| 9 F1.60.05 | 60 | C.M. 5 | 75 | 123 | 74 | 30 |





CONTROPUNTA ROTANTE CON COMPRESIONE

REVOLVING TAILSTOCK WITH COMPRESSION



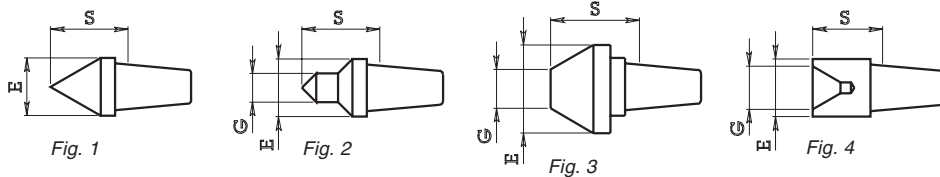
| Code | | | | | | | |
|------------|----|----|----|----|----|----|-----|
| ART. | D | d1 | d3 | L | H | S | C |
| 9 V3.30.78 | 30 | 58 | 68 | 78 | 20 | 34 | 2,5 |
| 9 V3.40.80 | 40 | 58 | 83 | 80 | 22 | 34 | 2,5 |

C = Corsa di compressione
C = Absorber stroke

N.B. La contropunta viene fornita con cuspidi come Fig. 1 - Salvo diversa richiesta
The revolving tailstock is provided with interchangeable insert Fig. 1

CUSPIDI INTERCAMBIABILI PER CONTROPUNTA

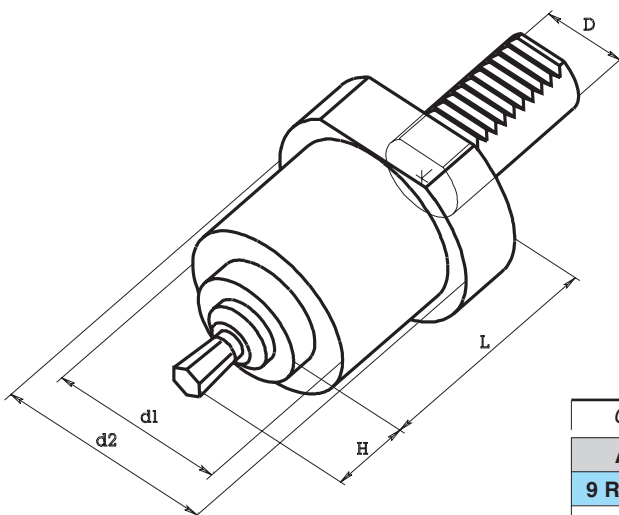
INTERCHANGEABLE INSERT



| Code | | | | |
|-----------|------|----|----|----|
| ART. | Fig. | E | S | G |
| 172.601 | 1 | 28 | 34 | — |
| 172.602 | 2 | 28 | 40 | 7 |
| 172.602 B | 2 | 28 | 40 | 12 |
| 172.603 | 3 | 58 | 36 | 25 |
| 172.604 | 4 | 28 | 32 | 24 |

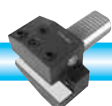
BROCCIATORE

BROACH TOOLHOLDER



A pag. 99-100 sono descritte le brocche disponibili a magazzino.
Broaches available from warehouse are listed on pag. 99-100.

| Code | | | | | | hole |
|------------|----|----|----|----|----|------|
| ART. | D | d1 | d2 | L | H | Foro |
| 9 R2.20.12 | 20 | 44 | 50 | 57 | 25 | 12 |
| 9 R2.30.12 | 30 | 58 | 68 | 83 | 25 | 12 |
| 9 R2.30.16 | 30 | 58 | 68 | 83 | 40 | 16 |
| 9 R2.40.12 | 40 | 58 | 83 | 83 | 25 | 12 |
| 9 R2.40.16 | 40 | 58 | 83 | 83 | 40 | 16 |



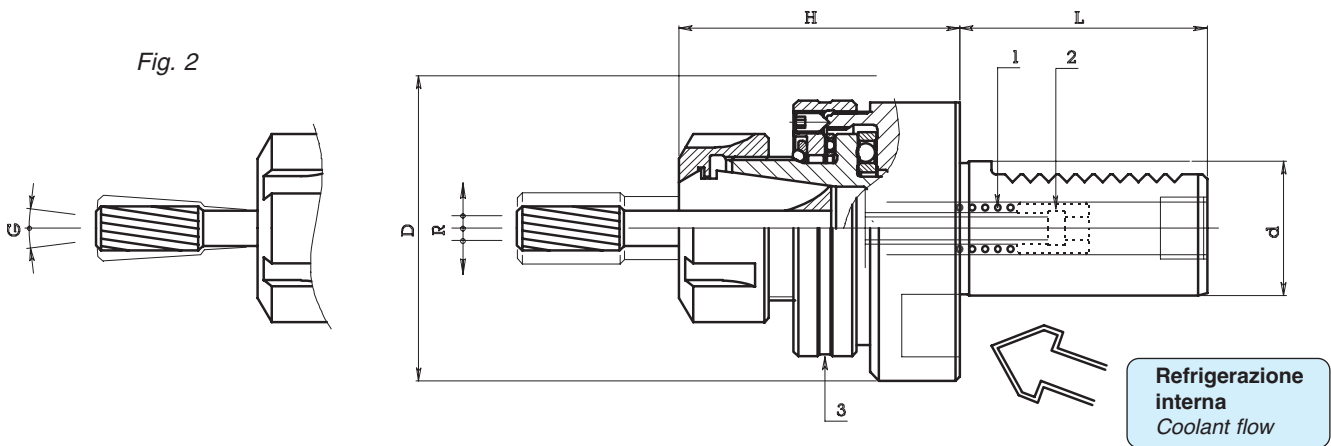


PORTA ALESATORI FLOTTANTI ATTACCO VDI REFRIG. INTERNA
VDI FLOATING REAMER HOLDERS WITH COOLANT FLOW



Pinze DIN 6499/B
Collets DIN 6499/B

Fig. 2



R = Capacità di movimento radiale più o meno dal centro
R = radial stroke from centre

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

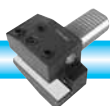
| Code | | | | | | collet | collet code | nut code |
|------------|----|----|----|----|-----|--------|-------------|-------------|
| ART. | d | D | H | L | R | pinza | art. pinza | art. ghiera |
| 9 K3.20.25 | 20 | 57 | 57 | 40 | 1 | ERC 25 | 050.025 | 052.325 |
| 9 K3.30.25 | 30 | 68 | 64 | 55 | 1 | ERC 25 | 050.025 | 052.325 |
| 9 K3.30.32 | 30 | 68 | 72 | 55 | 1,5 | ERC 32 | 050.032 | 052.332 |
| 9 K3.40.32 | 40 | 83 | 74 | 63 | 1,5 | ERC 32 | 050.032 | 052.332 |
| 9 K3.40.40 | 40 | 83 | 74 | 63 | 1,5 | ERC 40 | 050.040 | 052.340 |

DATI TECNICI E MODO D'USO

- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

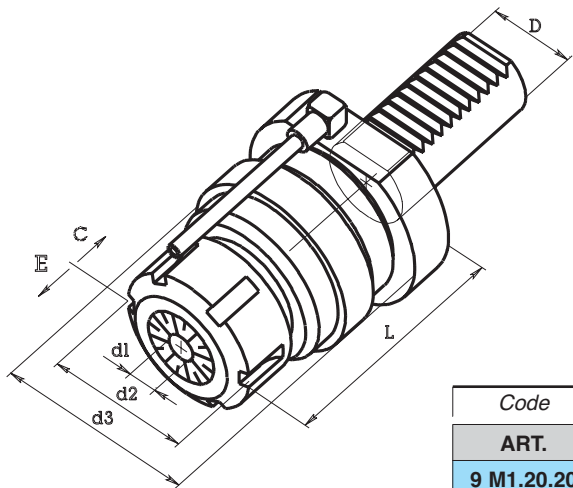
- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.





PORTA MASCHI AD ESTRAZIONE E COMPRESSIONE

EXTRACTION AND COMPRESSION TAP HOLDERS

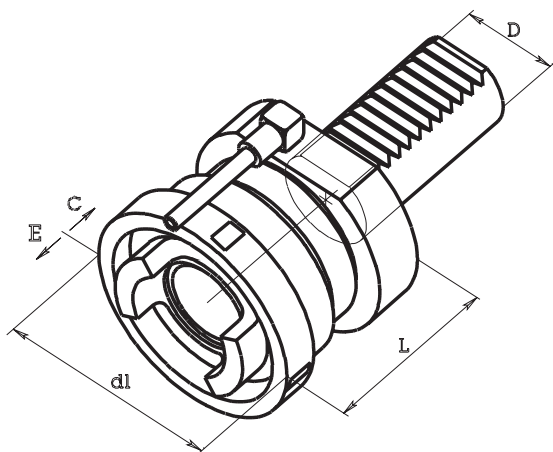


Pinze DIN 6499/B
Collets DIN 6499/B

| Code | | Collet | | | | | | | |
|------------|----|--------|--------|--------|----|----|-----|----|----|
| ART. | D | Pinza | d1 min | d1 max | d2 | d3 | L | E | C |
| 9 M1.20.20 | 20 | ERC 20 | 1 | 13 | 34 | 50 | 71 | 9 | -3 |
| 9 M1.20.25 | 20 | ERC 25 | 1 | 16 | 42 | 50 | 100 | 9 | -3 |
| 9 M1.30.25 | 30 | ERC 25 | 1 | 16 | 42 | 68 | 84 | 12 | -4 |
| 9 M1.30.32 | 30 | ERC 32 | 2 | 20 | 50 | 68 | 86 | 12 | -4 |
| 9 M1.40.25 | 40 | ERC 25 | 1 | 16 | 42 | 83 | 86 | 12 | -4 |
| 9 M1.40.32 | 40 | ERC 32 | 2 | 20 | 50 | 83 | 88 | 12 | -4 |

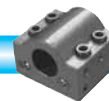
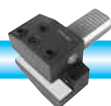
PORTA FILIERE AD ESTRAZIONE E COMPRESSIONE

EXTRACTION AND COMPRESSION DIE HOLDERS



A pag. 111 sono descritti i cappellotti porta filiera disponibili a magazzino.
Die holder caps available from warehouse are listed on pag. 111.

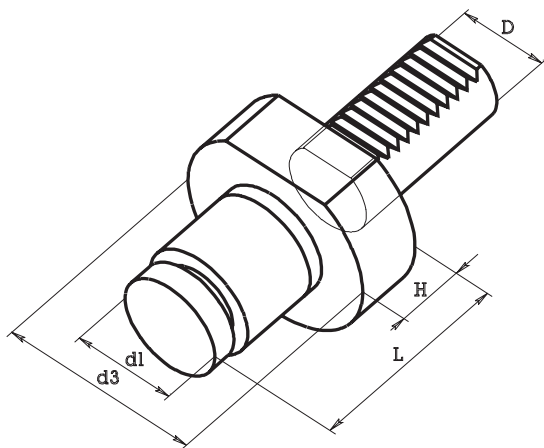
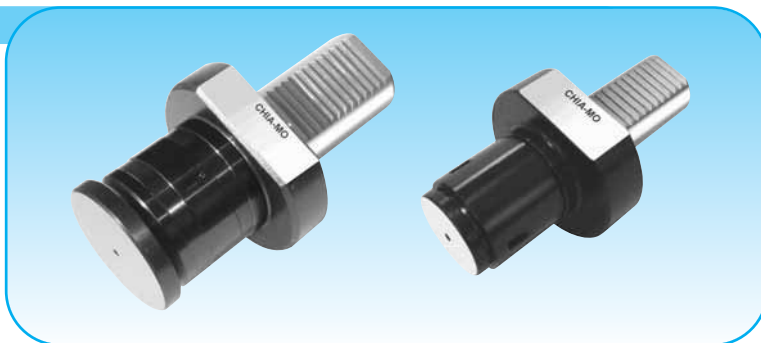
| Code | | Die holding cap code | | | | |
|------------|----|----------------------|----|----|----|----|
| ART. | D | art. cappello | d1 | L | E | C |
| 9 Y1.20.20 | 20 | 220.... | 57 | 57 | 9 | -3 |
| 9 Y1.30.30 | 30 | 230.... | 70 | 71 | 12 | -4 |
| 9 Y1.40.30 | 40 | 230.... | 70 | 73 | 12 | -4 |





FERMO BARRA ROTANTE

ROTATING STOP SHOCK ABSORBER

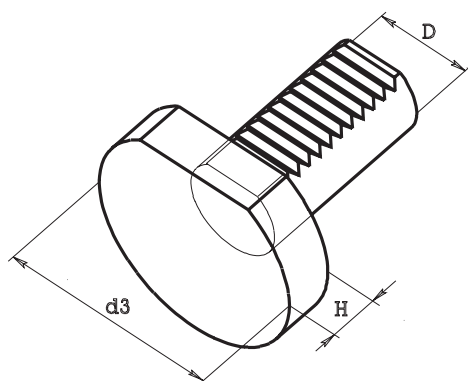


Corsa di compressione = 3 mm
Absorber stroke = 3 mm

| Code | | | | | |
|------------|----|----|----|----|----|
| ART. | D | d1 | d3 | L | H |
| 9 S3.20.35 | 20 | 35 | 50 | 58 | 16 |
| 9 S3.20.56 | 20 | 56 | 50 | 58 | 16 |
| 9 S3.30.35 | 30 | 35 | 68 | 70 | 20 |
| 9 S3.30.56 | 30 | 56 | 68 | 70 | 20 |
| 9 S3.40.40 | 40 | 44 | 83 | 78 | 22 |
| 9 S3.40.60 | 40 | 60 | 83 | 78 | 22 |

TAPPO DI PROTEZIONE

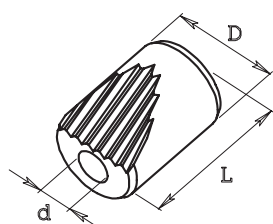
BLANKING PLUG



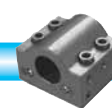
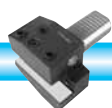
| Code | | | |
|------------|----|-----|----|
| ART. | D | d3 | H |
| 9 Z2.16.00 | 16 | 40 | 13 |
| 9 Z2.20.00 | 20 | 50 | 16 |
| 9 Z2.25.00 | 25 | 58 | 16 |
| 9 Z2.30.00 | 30 | 68 | 16 |
| 9 Z2.40.00 | 40 | 83 | 20 |
| 9 Z2.50.00 | 50 | 98 | 20 |
| 9 Z2.60.00 | 60 | 123 | 20 |

NOTTOLINI BLOCCAGGIO VDI

VDI INTERLOCKING BUSHES



| Code | | | |
|------------|----|----|------|
| ART. | D | L | d |
| 9 W1.30.28 | 28 | 42 | 10,5 |



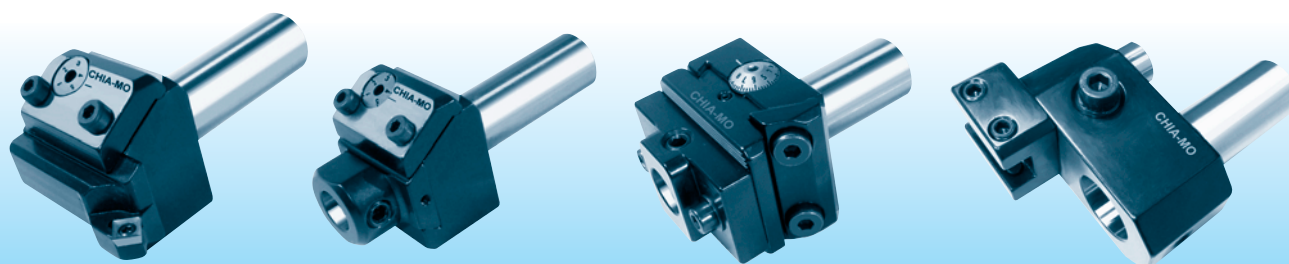


CHIA-MO

BOLOGNA - ITALY



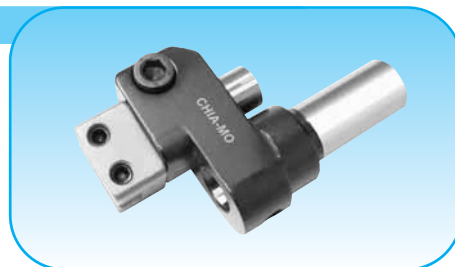
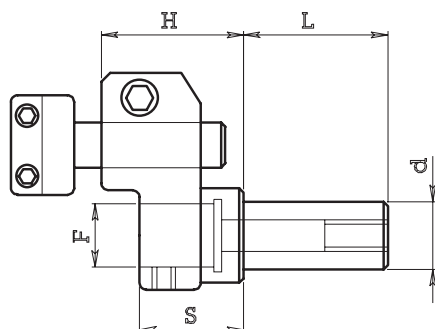
Porta utensili con attacco cilindrico ***CYLINDRICAL SHANK TOOLHOLDERS***





PORTA UTENSILE COMBINATO SEMPLICE RIBASSATO Tipo 108

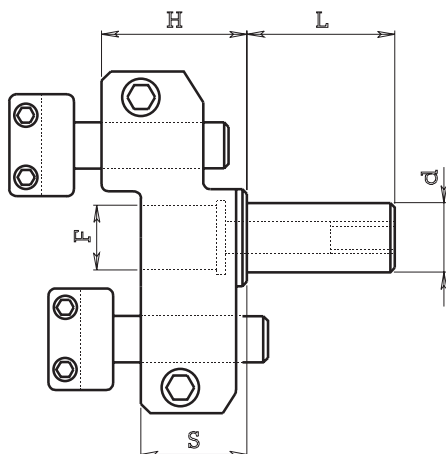
TURN AND DRILL HOLDER



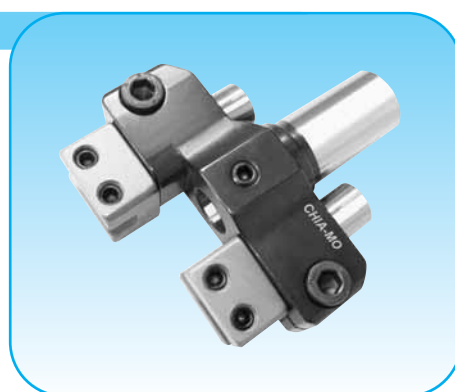
| ART. (Code) | d | F | H | S | L | E |
|-------------|--------|----|----|----|----|----|
| 108.115 | 15.875 | 12 | 32 | 24 | 32 | 12 |
| 108.116 | 16 | 12 | 32 | 24 | 32 | 12 |
| 108.119 | 19.05 | 12 | 32 | 24 | 32 | 12 |

PORTA UTENSILE COMBINATO DOPPIO RIBASSATO Tipo 109

TURN AND DRILL HOLDER



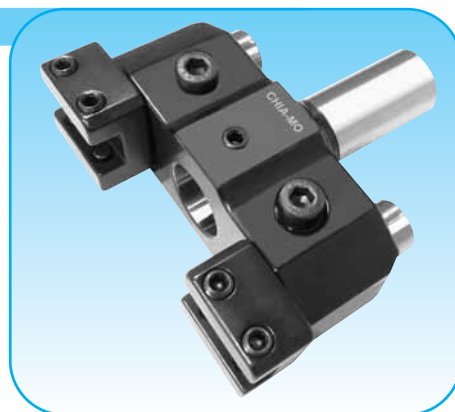
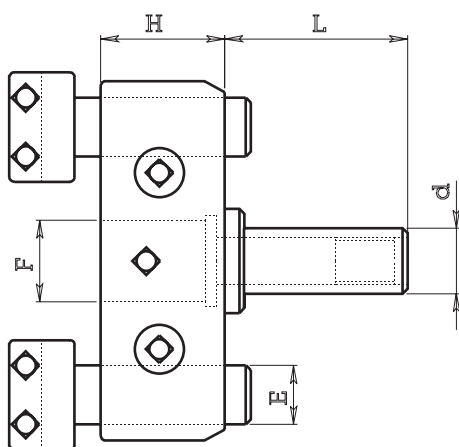
A richiesta (on request)



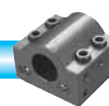
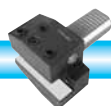
| ART. (Code) | d | F | H | S | L | E |
|-------------|--------|----|----|----|----|----|
| 109.115 | 15.875 | 12 | 32 | 26 | 32 | 12 |
| 109.116 | 16 | 12 | 32 | 26 | 32 | 12 |
| 109.119 | 19.05 | 12 | 32 | 26 | 32 | 12 |

PORTA UTENSILE COMBINATO DOPPIO Tipo 110

TURN AND DRILL HOLDER



| ART. (Code) | d | F | H | L | E |
|-------------|-------|----|----|----|----|
| 110.219 | 19.05 | 15 | 26 | 46 | 15 |
| 110.220 | 20 | 15 | 26 | 46 | 15 |
| 110.322 | 22 | 25 | 44 | 50 | 18 |
| 110.325 | 25 | 25 | 44 | 50 | 18 |
| 110.326 | 25.40 | 25 | 44 | 50 | 18 |
| 110.330 | 30 | 25 | 38 | 56 | 18 |
| 110.331 | 31.75 | 25 | 38 | 56 | 18 |
| 110.332 | 32 | 25 | 38 | 56 | 18 |



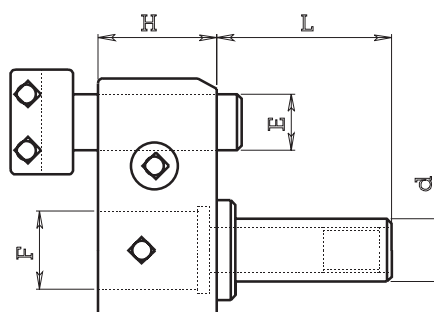


PORTA UTENSILE COMBINATO SEMPLICE Tipo 112

TURN AND DRILL HOLDER



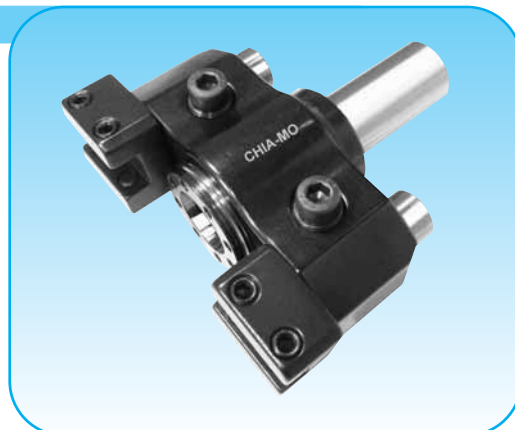
| Code | | | | | |
|---------|--------|----|----|----|----|
| ART. | d | F | H | L | E |
| 112.115 | 15.875 | 12 | 22 | 32 | 12 |
| 112.116 | 16 | 12 | 22 | 32 | 12 |
| 112.119 | 19.05 | 12 | 22 | 32 | 12 |
| 112.219 | 19.05 | 15 | 26 | 46 | 15 |
| 112.220 | 20 | 15 | 26 | 46 | 15 |
| 112.322 | 22 | 25 | 36 | 50 | 18 |
| 112.325 | 25 | 25 | 36 | 50 | 18 |
| 112.326 | 25.40 | 25 | 36 | 50 | 18 |
| 112.330 | 30 | 25 | 36 | 50 | 18 |
| 112.331 | 31.75 | 25 | 36 | 50 | 18 |
| 112.332 | 32 | 25 | 36 | 50 | 18 |



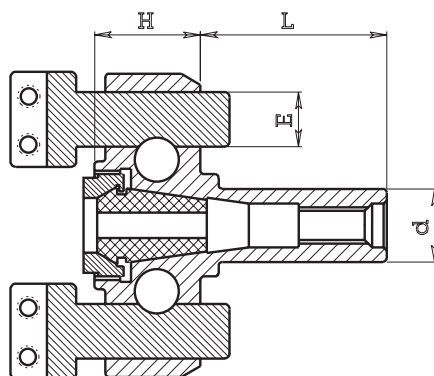
PORTA UTENSILE COMBINATO DOPPIO Tipo 114 CON PINZA

TURN AND DRILL HOLDER WITH COLLET

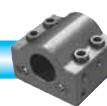
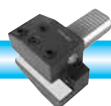
Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | Collet | Code collet |
|----------|--------|----|----|----|--------|-------------|
| ART. | d | H | L | E | pinza | art. pinza |
| 114.115* | 15.875 | 28 | 32 | 12 | ERC 16 | 050.016 |
| 114.116* | 16 | 28 | 32 | 12 | ERC 16 | 050.016 |
| 114.119* | 19.05 | 28 | 32 | 12 | ERC 16 | 050.016 |
| 114.219 | 19.05 | 34 | 46 | 15 | ERC 20 | 050.020 |
| 114.220 | 20 | 34 | 46 | 15 | ERC 20 | 050.020 |
| 114.222 | 22 | 34 | 46 | 15 | ERC 20 | 050.020 |
| 114.322 | 22 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 114.325 | 25 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 114.326 | 25.40 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 114.330 | 30 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 114.331 | 31.75 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 114.332 | 32 | 47 | 50 | 18 | ERC 32 | 050.032 |



* = A richiesta (on request)



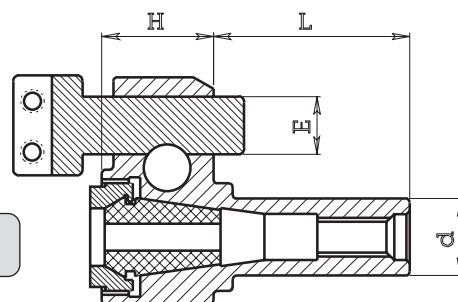


PORTA UTENSILE COMBINATO SEMPLICE Tipo 116 CON PINZA

TURN AND DRILL HOLDER WITH COLLET



| Code | | | | | Collet | Code collet |
|----------|--------|----|----|----|--------|-------------|
| ART. | d | H | L | E | pinza | art. pinza |
| 116.115* | 15.875 | 28 | 32 | 12 | ERC 16 | 050.016 |
| 116.116* | 16 | 28 | 32 | 12 | ERC 16 | 050.016 |
| 116.119* | 19.05 | 28 | 32 | 12 | ERC 16 | 050.016 |
| 116.219 | 19.05 | 34 | 45 | 15 | ERC 20 | 050.020 |
| 116.220 | 20 | 34 | 45 | 15 | ERC 20 | 050.020 |
| 116.222 | 22 | 34 | 45 | 15 | ERC 20 | 050.020 |
| 116.322 | 22 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 116.325 | 25 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 116.326 | 25.40 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 116.330 | 30 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 116.331 | 31.75 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 116.332 | 32 | 47 | 50 | 18 | ERC 32 | 050.032 |
| 116.426 | 25.40 | 47 | 50 | 18 | ERC 25 | 050.025 |



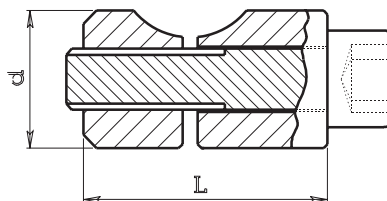
Pinze DIN 6499/B
Collets DIN 6499/B

* = A richiesta (on request)

NOTTOLINI DI BLOCCAGGIO Tipo 244

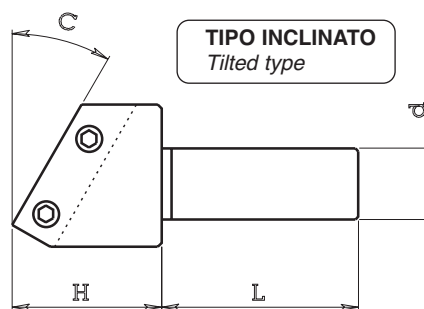
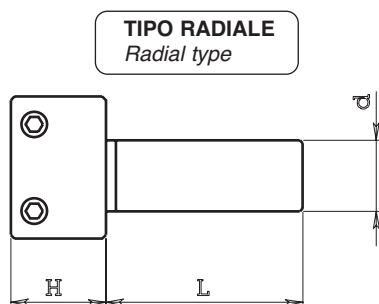
INTERLOCKING BUSHES

| Code | | | for toolholder |
|---------|----|----|-------------------------------|
| ART. | d | L | art. portautensile |
| 244.201 | 12 | 26 | 110.2 - 112.2 - 114.2 - 116.2 |
| 244.301 | 15 | 36 | 110.3 - 112.3 - 114.3 - 116.3 |



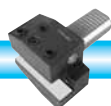
SUPPORTINI FISSI Tipo 120

FIXED TOOLHOLDERS



| Code | | | |
|---------|----|----|----|
| ART. | d | L | H |
| 120.101 | 12 | 32 | 14 |
| 120.102 | 12 | 40 | 14 |
| 120.201 | 15 | 42 | 18 |
| 120.202 | 15 | 60 | 18 |
| 120.301 | 18 | 50 | 20 |
| 120.302 | 18 | 75 | 20 |

| right hand cut off | | | | | left hand cut off |
|--------------------|----|----|----|-----|-------------------|
| ART. taglio dx | d | L | H | C | ART. taglio sx |
| 120.211 | 15 | 42 | 18 | 8° | 120.711 |
| 120.212 | 15 | 60 | 18 | 8° | 120.712 |
| 120.231 | 15 | 42 | 29 | 30° | 120.731 |
| 120.232 | 15 | 60 | 29 | 30° | 120.732 |
| 120.311 | 18 | 50 | 25 | 8° | 120.811 |
| 120.312 | 18 | 75 | 25 | 8° | 120.812 |
| 120.331 | 18 | 50 | 32 | 30° | 120.831 |
| 120.332 | 18 | 75 | 32 | 30° | 120.832 |





SUPPORTINI REGISTRABILI Tipo 122 - 123 - 124
ADJUSTABLE TOOLHOLDERS

SUPPORTINO REGISTRABILE PORTA BARRETTA
ADJUSTABLE TOOLHOLDER

| Code | | length of shaft | total length | cut off |
|---------|----|-----------------|------------------|---------|
| ART. | D | Lunghezza stelo | Lunghezza totale | Taglio |
| 124.201 | 15 | 42 | 82 | Dx - Sx |
| 124.202 | 15 | 60 | 100 | Dx - Sx |
| 124.301 | 18 | 50 | 90 | Dx - Sx |
| 124.302 | 18 | 75 | 115 | Dx - Sx |

Fig. 1

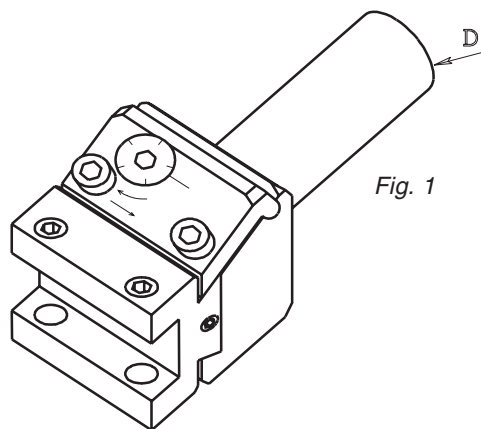


Fig. 1

SUPPORTINO REGISTRABILE
CON UTENSILE PORTA INSERTO

ADJUSTABLE TOOLHOLDER WITH INSERT HOLDER

| Code | | length of shaft | total length | cut off |
|-----------|----|-----------------|------------------|---------|
| ART. | D | Lunghezza stelo | Lunghezza totale | Taglio |
| 122.201 D | 15 | 42 | 82 | Dx |
| 122.202 D | 15 | 60 | 100 | Dx |
| 122.301 D | 18 | 50 | 90 | Dx |
| 122.302 D | 18 | 75 | 115 | Dx |
| 122.201 S | 15 | 42 | 82 | Sx |
| 122.202 S | 15 | 60 | 100 | Sx |
| 122.301 S | 18 | 50 | 90 | Sx |
| 122.302 S | 18 | 75 | 115 | Sx |

Fig. 2

Con inserto trapezoidale
a 90 gradi
With trapezoidal insert 90°

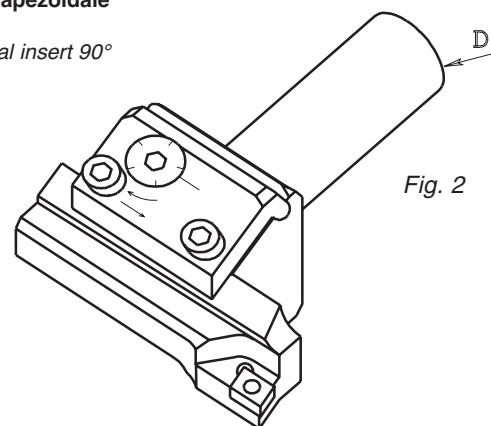


Fig. 2

| ART. | D | Lunghezza stelo | Lunghezza totale | Taglio |
|-----------|----|-----------------|------------------|--------|
| 123.201 D | 15 | 42 | 82 | Dx |
| 123.202 D | 15 | 60 | 100 | Dx |
| 123.301 D | 18 | 50 | 90 | Dx |
| 123.302 D | 18 | 75 | 115 | Dx |
| 123.201 S | 15 | 42 | 82 | Sx |
| 123.202 S | 15 | 60 | 100 | Sx |
| 123.301 S | 18 | 50 | 90 | Sx |
| 123.302 S | 18 | 75 | 115 | Sx |

Con inserto trapezoidale
a 45 gradi
With trapezoidal insert 45°

(N.B.1)
L'utensile rappresentato in
figura è per taglio sinistro
Tool in figure is left hand

PORTA BARENO REGISTRABILE Tipo 140
ADJUSTABLE BORING TOOLHOLDER

| Code | | length of shaft | total length | ø bore |
|---------|--------|-----------------|------------------|--------|
| ART. | D | Lunghezza stelo | Lunghezza totale | Foro |
| 140.115 | 15.875 | 32 | 78.5 | 12 |
| 140.116 | 16 | 32 | 78.5 | 12 |
| 140.119 | 19.05 | 46 | 92.5 | 12 |
| 140.120 | 20 | 46 | 92.5 | 12 |

Fig. 3

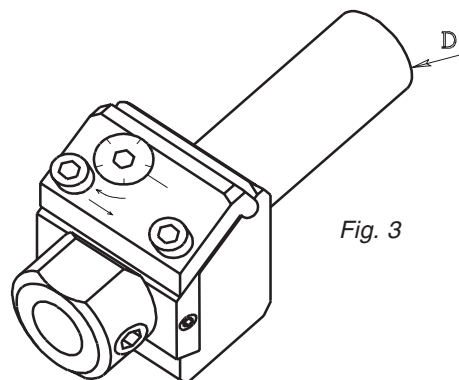
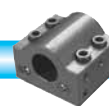
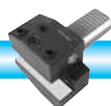


Fig. 3





SUPPORTINI REGISTRABILI Tipo 122 - 123 - 124 - 140

ADJUSTABLE TOOLHOLDER - ADJUSTABLE BORING TOOLHOLDER

PARTI INTERCAMBIABILI E DI RICAMBIO

INTERCHANGEABLE PARTS

I supportini registrabili Tipo 122-123-124 ed i porta barenii registrabili Tipo 140 sono intercambiabili.

Su di uno stesso stelo di supporto (Fig. 1), che contiene il meccanismo di movimento, si possono montare e smontare i vari tipi di utensile (Fig. 2-3-4-5).

Adjustable toolholders Type 122-123-124 and adjustable boring toolholders are interchangeable. Any shaft can be assembled with many tool type (fig. 2-3-4-5).

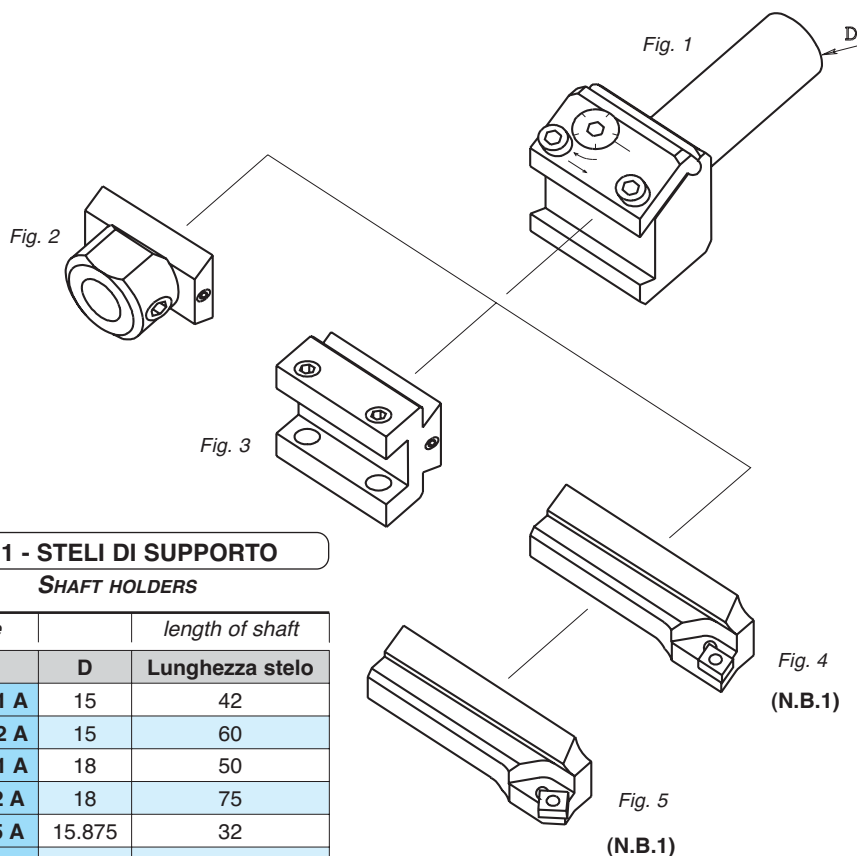
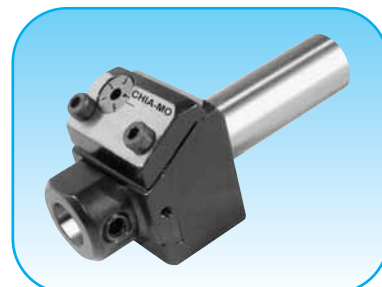


Fig. 1 - STELI DI SUPPORTO

SHAFT HOLDERS

| Code | | length of shaft |
|-----------|--------|-----------------|
| ART. | D | Lunghezza stelo |
| 124.201 A | 15 | 42 |
| 124.202 A | 15 | 60 |
| 124.301 A | 18 | 50 |
| 124.302 A | 18 | 75 |
| 140.115 A | 15.875 | 32 |
| 140.116 A | 16 | 32 |
| 140.119 A | 19.05 | 46 |
| 140.120 A | 20 | 46 |

Fig. 4
(N.B.1)

Fig. 5
(N.B.1)

(N.B.1)

L'utensile rappresentato in figura è per taglio sinistro
Tool in figure is left hand

Fig. 2 - PORTA BARENO Art. 140.100 B

BORING TOOLHOLDER

**Fig. 3 - PORTA BARRETTA Art. 124.201 B
PER BARRETTA 8x8**

TOOLHOLDER FOR TOOL 8x8

Fig. 4 - UTENSILE PORTA INSERTO A 90°

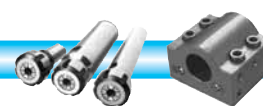
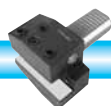
INSERT TOOLHOLDER 90°

| Code | cut off | insert |
|-----------|----------|---------|
| ART. | Taglio | Inserto |
| 122.001 D | Destro | CCMT |
| 122.001 S | Sinistro | CCMT |

Fig. 5 - UTENSILE PORTA INSERTO A 45°

INSERT TOOLHOLDER 45°

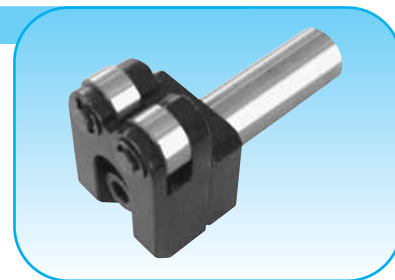
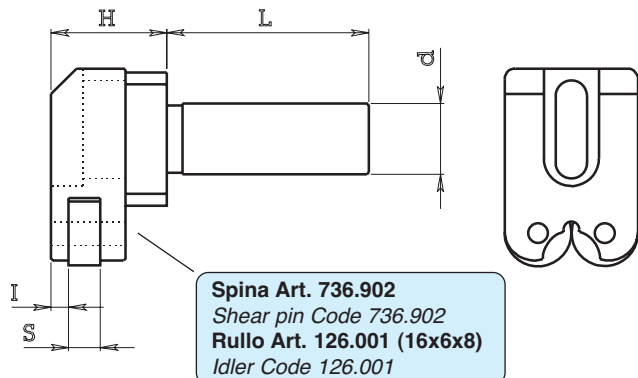
| Code | cut off | insert |
|-----------|----------|---------|
| ART. | Taglio | Inserto |
| 123.001 D | Destro | CCMT |
| 123.001 S | Sinistro | CCMT |





SUPPORTINI PORTA RULLI Tipo 126

IDLER TOOLHOLDERS



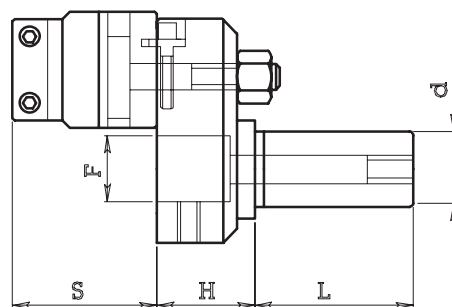
| Code | | | | | | bar diameter | |
|---------|----|----|----|---|---|-------------------------|-----|
| ART. | d | H | L | I | S | capacità di guida barra | |
| | | | | | | min | max |
| 126.201 | 15 | 27 | 42 | 4 | 8 | 3 | 18 |
| 126.301 | 18 | 29 | 52 | 4 | 8 | 3 | 30 |

PORTA UTENSILI REGISTRABILI Tipo 130

ADJUSTABLE TOOLHOLDERS

A richiesta (on request)

| Code | | | | | | | | |
|---------|-------|----|----|----|----|--|--|--|
| ART. | d | S | H | L | F | | | |
| 130.219 | 19.05 | 30 | 26 | 46 | 15 | | | |
| 130.220 | 20 | 30 | 26 | 46 | 15 | | | |
| 130.322 | 22 | 38 | 38 | 50 | 25 | | | |
| 130.325 | 25 | 38 | 38 | 50 | 25 | | | |
| 130.326 | 25.40 | 38 | 38 | 50 | 25 | | | |
| 130.330 | 30 | 38 | 38 | 50 | 25 | | | |
| 130.331 | 31.75 | 38 | 38 | 50 | 25 | | | |
| 130.332 | 32 | 38 | 38 | 50 | 25 | | | |

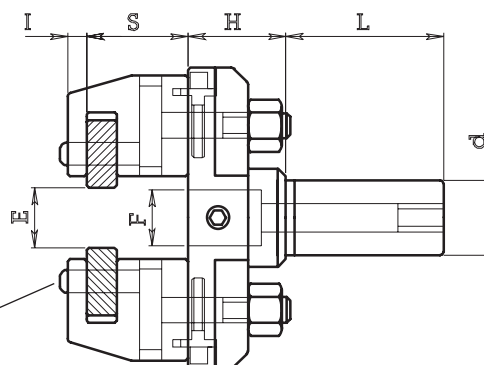


PORTA UTENSILI PORTA GODRONI Tipo 136

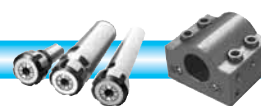
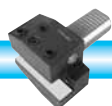
KNURL HOLDERS

| Code | | | | | | | | |
|---------|-------|----|----|---|----|----|-------|-------|
| ART. | d | S | H | I | L | F | E min | E max |
| 136.219 | 19.05 | 28 | 28 | 5 | 42 | 15 | 5 | 26 |
| 136.220 | 20 | 28 | 28 | 5 | 42 | 15 | 5 | 26 |
| 136.322 | 22 | 34 | 35 | 6 | 50 | 25 | 6 | 56 |
| 136.325 | 25 | 34 | 35 | 6 | 50 | 25 | 6 | 56 |
| 136.326 | 25.40 | 34 | 35 | 6 | 50 | 25 | 6 | 56 |
| 136.330 | 30 | 34 | 35 | 6 | 50 | 25 | 6 | 56 |
| 136.331 | 31.75 | 34 | 35 | 6 | 50 | 25 | 6 | 56 |
| 136.332 | 32 | 34 | 35 | 6 | 50 | 25 | 6 | 56 |

Per godroni diametro esterno 20 mm, foro 6 mm, spessore 8 mm
For 20 mm diameter, 6 mm bore, 8 mm length knurls



Spina Art. 736.904
Shear pin Code 736.904





PORTA BARENO REGISTRABILE Tipo 140
ADJUSTABLE BORING TOOLHOLDER

Fig. 1

| Code | | | | | |
|---------|--------|----|------|----|----|
| ART. | d | F | H | L | R |
| 140.115 | 15.875 | 12 | 46.5 | 32 | 10 |
| 140.116 | 16 | 12 | 46.5 | 32 | 10 |
| 140.119 | 19.05 | 12 | 46.5 | 46 | 10 |
| 140.120 | 20 | 12 | 46.5 | 46 | 10 |

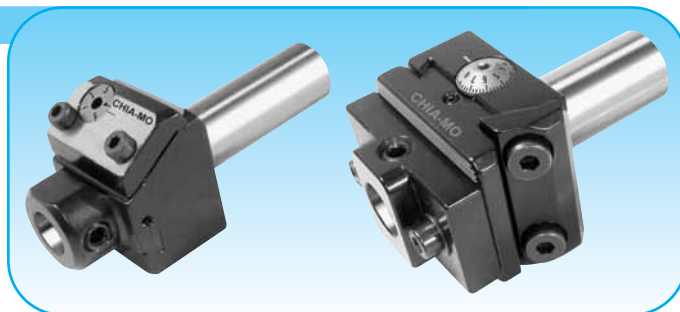


Fig. 2

| Code | | | | | |
|---------|-------|----|----|----|----|
| ART. | d | F | H | L | R |
| 140.219 | 19.05 | 15 | 54 | 50 | 18 |
| 140.220 | 20 | 15 | 54 | 50 | 18 |
| 140.225 | 25 | 15 | 54 | 50 | 18 |
| 140.226 | 25.40 | 15 | 54 | 50 | 18 |
| 140.319 | 19.05 | 18 | 54 | 50 | 18 |
| 140.320 | 20 | 18 | 54 | 50 | 18 |
| 140.325 | 25 | 18 | 54 | 50 | 18 |
| 140.326 | 25.40 | 18 | 54 | 50 | 18 |

R = Corsa di registrazione
R = adjustable stroke

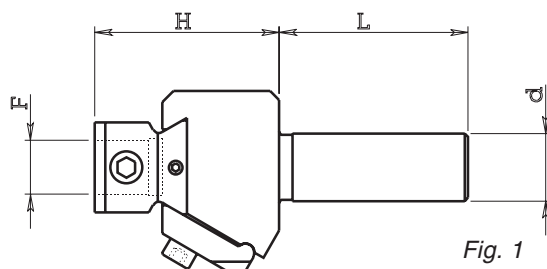


Fig. 1

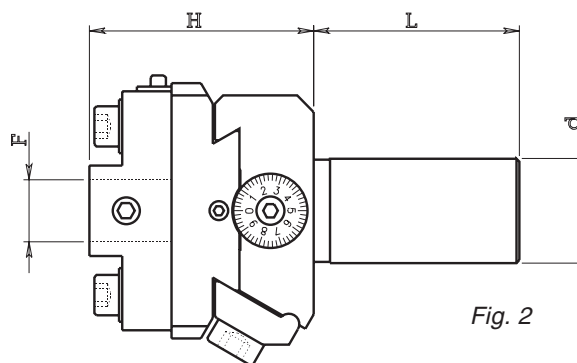
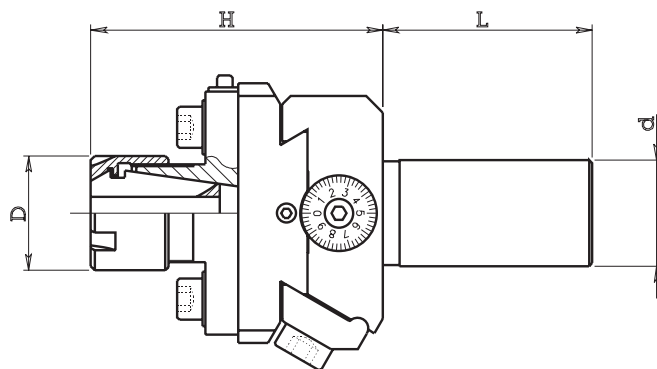


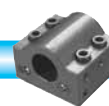
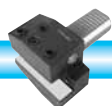
Fig. 2

PORTA BARENO REGISTRABILE Tipo 140 CON PINZA
ADJUSTABLE BORING TOOLHOLDER WITH COLLET

| Code | | | | | collet | collet code | collet bore | |
|----------|-------|----|----|----|--------|-------------|----------------|-----|
| ART. | d | D | H | L | pinza | art. pinza | capacità pinza | |
| | | | | | | | min | max |
| 140.219B | 19.05 | 22 | 67 | 50 | ERC 16 | 050.016 | 1 | 10 |
| 140.220B | 20 | 22 | 67 | 50 | ERC 16 | 050.016 | 1 | 10 |
| 140.225B | 25 | 22 | 67 | 50 | ERC 16 | 050.016 | 1 | 10 |
| 140.226B | 25.40 | 22 | 67 | 50 | ERC 16 | 050.016 | 1 | 10 |
| 140.219C | 19.05 | 28 | 70 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 140.220C | 20 | 28 | 70 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 140.325C | 25 | 28 | 70 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 140.326C | 25.40 | 28 | 70 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 140.319D | 19.05 | 35 | 75 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 140.320D | 20 | 35 | 75 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 140.325D | 25 | 35 | 75 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 140.326D | 25.40 | 35 | 75 | 50 | ERC 25 | 050.025 | 1 | 16 |



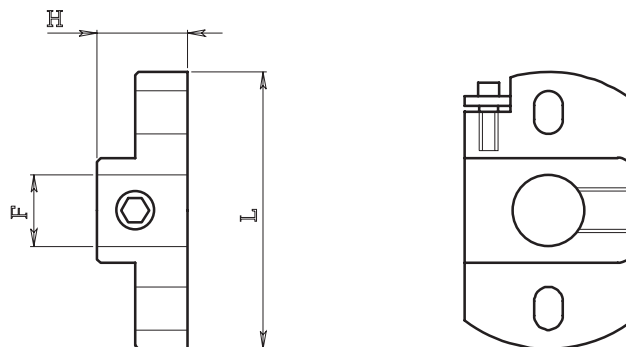
Pinze DIN 6499/B
Collets DIN 6499/B





PIASTRINI Tipo 141
BORING TOOLHOLDERS

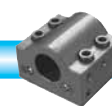
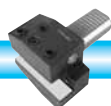
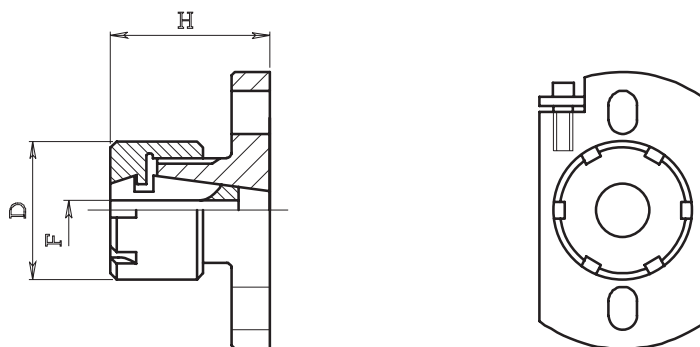
| Code | | | | for toolholder |
|---------|----|----|----|-------------------|
| ART. | F | H | L | per portautensile |
| 141.201 | 15 | 20 | 58 | 140.2 - 142.2 |
| 141.301 | 18 | 20 | 64 | 140.3 - 142.3 |



PIASTRINI PORTA PINZA Tipo 141
BORING TOOLHOLDERS WITH COLLET

| Code | | | collet | collet code | collet bore | for toolholder | |
|---------|----|----|--------|-------------|----------------|----------------|-------------------|
| ART. | H | D | pinza | art. pinza | capacità pinza | | per portautensile |
| | | | | | min | max | |
| 141.216 | 32 | 22 | ERC 16 | 050.016 | 1 | 10 | 140.2 - 142.2 |
| 141.220 | 36 | 28 | ERC 20 | 050.020 | 1 | 13 | 140.2 - 142.2 |
| 141.320 | 36 | 28 | ERC 20 | 050.020 | 1 | 13 | 140.3 - 142.3 |
| 141.325 | 42 | 35 | ERC 25 | 050.025 | 1 | 16 | 140.3 - 142.3 |

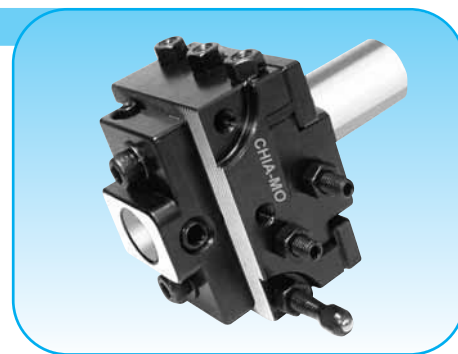
Pinze DIN 6499/B
Collets DIN 6499/B





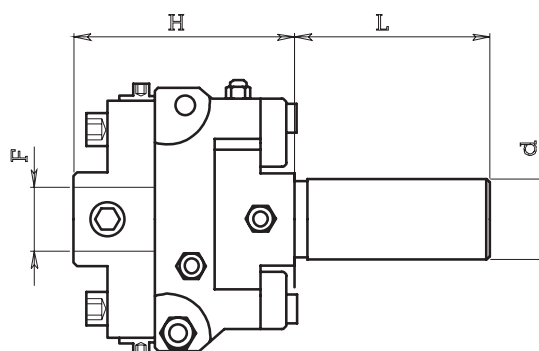
PORTA UTENSILI PER RECESSI INTERNI Tipo 142

RECESSING TOOLHOLDERS



| Code | | | | | |
|---------|-------|----|----|----|----|
| ART. | d | F | H | L | R |
| 142.219 | 19.05 | 15 | 52 | 46 | 20 |
| 142.220 | 20 | 15 | 52 | 46 | 20 |
| 142.222 | 22 | 15 | 52 | 46 | 20 |
| 142.322 | 22 | 18 | 60 | 50 | 24 |
| 142.325 | 25 | 18 | 60 | 50 | 24 |
| 142.326 | 25.40 | 18 | 60 | 50 | 24 |
| 142.330 | 30 | 18 | 60 | 50 | 24 |
| 142.331 | 31.75 | 18 | 60 | 50 | 24 |
| 142.332 | 32 | 18 | 60 | 50 | 24 |

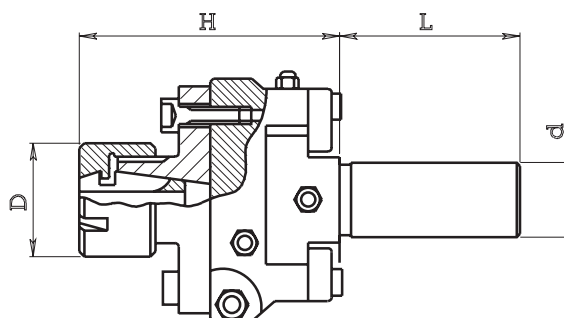
R = Corsa di registrazione
R = adjustable stroke



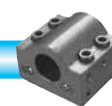
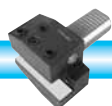
PORTA UTENSILI PER RECESSI INTERNI Tipo 142 CON PINZA

RECESSING TOOLHOLDERS WITH COLLET

| Code | | | | | collet | collet code | collet bore | |
|----------|-------|----|----|----|--------|-------------|----------------|-----|
| ART. | d | D | H | L | pinza | art. pinza | capacità pinza | |
| | | | | | | | min | max |
| 142.219B | 19.05 | 22 | 64 | 46 | ERC 16 | 050.016 | 1 | 10 |
| 142.220B | 20 | 22 | 64 | 46 | ERC 16 | 050.016 | 1 | 10 |
| 142.222B | 22 | 22 | 64 | 46 | ERC 16 | 050.016 | 1 | 10 |
| 142.325B | 25 | 22 | 64 | 46 | ERC 16 | 050.016 | 1 | 10 |
| 142.326B | 25.40 | 22 | 64 | 46 | ERC 16 | 050.016 | 1 | 10 |
| 142.219C | 19.05 | 28 | 68 | 46 | ERC 20 | 050.020 | 1 | 13 |
| 142.220C | 20 | 28 | 68 | 46 | ERC 20 | 050.020 | 1 | 13 |
| 142.222C | 22 | 28 | 68 | 46 | ERC 20 | 050.020 | 1 | 13 |
| 142.325C | 25 | 28 | 76 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 142.326C | 25.40 | 28 | 76 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 142.330C | 30 | 28 | 76 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 142.331C | 31.75 | 28 | 76 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 142.332C | 32 | 28 | 76 | 50 | ERC 20 | 050.020 | 1 | 13 |
| 142.219D | 19.05 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.220D | 20 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.222D | 22 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.325D | 25 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.326D | 25.40 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.330D | 30 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.331D | 31.75 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |
| 142.332D | 32 | 35 | 82 | 50 | ERC 25 | 050.025 | 1 | 16 |



Pinze DIN 6499/B
Collets DIN 6499/B

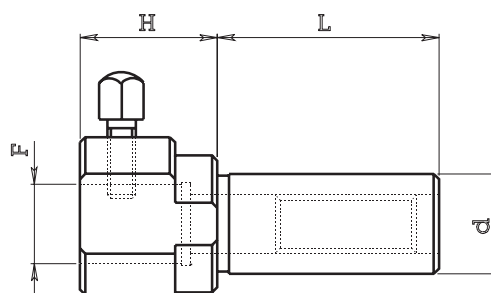




PORTA UTENSILI PER PUNTE CILINDRICHE Tipo 152

TOOLHOLDER FOR CYLINDRICAL SHANK DRILLS

| Code | | | | |
|---------|-------|----|----|----|
| ART. | d | H | L | F |
| 152.219 | 19.05 | 26 | 32 | 15 |
| 152.220 | 20 | 26 | 46 | 15 |
| 152.325 | 25 | 40 | 46 | 25 |
| 152.326 | 25.40 | 40 | 46 | 25 |



PORTA PUNTA REGISTRABILE Tipo 154 CON PINZA

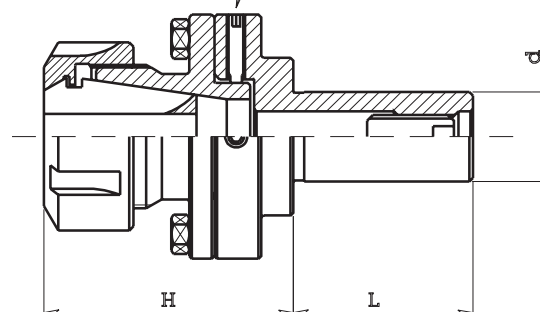
ADJUSTABLE COLLET CHUCKS

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | collet | collet code |
|---------|-------|----|----|--------|-------------|
| ART. | d | H | L | pinza | art. pinza |
| 154.219 | 19.05 | 42 | 44 | ERC 20 | 050.020 |
| 154.220 | 20 | 42 | 44 | ERC 20 | 050.020 |
| 154.322 | 22 | 57 | 50 | ERC 32 | 050.032 |
| 154.325 | 25 | 57 | 50 | ERC 32 | 050.032 |
| 154.326 | 25.40 | 57 | 50 | ERC 32 | 050.032 |
| 154.330 | 30 | 57 | 50 | ERC 32 | 050.032 |
| 154.331 | 31.75 | 57 | 50 | ERC 32 | 050.032 |
| 154.332 | 32 | 57 | 50 | ERC 32 | 050.032 |

n.4 Filetti per registrare la centratura

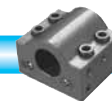
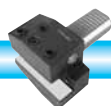
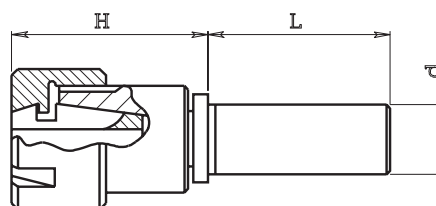


PORTA ALESATORI OSCILLANTI Tipo 156 CON PINZA

REAMER HOLDERS WITH COLLET

Pinze DIN 6499/B
Collets DIN 6499/B

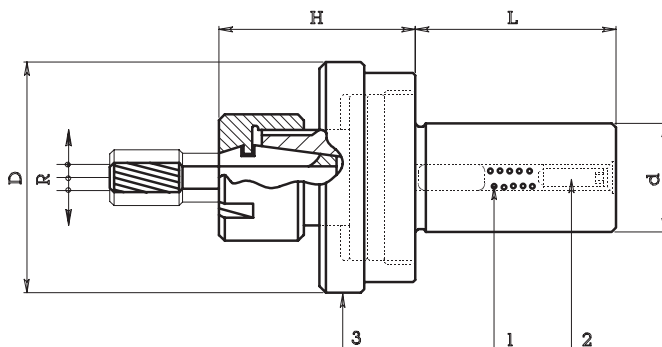
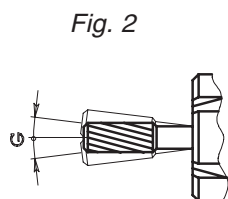
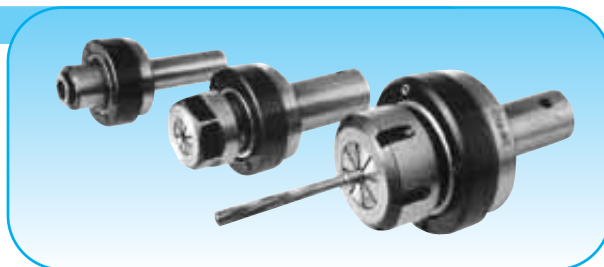
| Code | | | | collet | collet code |
|---------|-------|----|----|--------|-------------|
| ART. | d | H | L | pinza | art. pinza |
| 156.119 | 19.05 | 42 | 46 | ERC 20 | 050.020 |
| 156.120 | 20 | 42 | 46 | ERC 20 | 050.020 |
| 156.222 | 22 | 46 | 50 | ERC 25 | 050.025 |
| 156.225 | 25 | 46 | 50 | ERC 25 | 050.025 |
| 156.226 | 25.40 | 46 | 50 | ERC 25 | 050.025 |
| 156.230 | 30 | 46 | 50 | ERC 25 | 050.025 |
| 156.231 | 31.75 | 46 | 50 | ERC 25 | 050.025 |
| 156.232 | 32 | 46 | 50 | ERC 25 | 050.025 |





PORTA ALESATORI FLOTTANTI Tipo 157 CON PINZA
FLOATING REAMER HOLDERS WITH COLLET

Pinze DIN 6499/B
Collets DIN 6499/B



**R = Capacità di movimento radiale
più o meno dal centro**
R = radial stroke from centre

| Code | | | | | | collet | collet code | nut code |
|---------|--------|----|----|----|-----|--------|-------------|-------------|
| ART. | d | D | H | L | R | pinza | art. pinza | art. ghiera |
| 157.715 | 15.875 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 157.716 | 16 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 157.719 | 19.05 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 157.720 | 20 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 157.015 | 15.875 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.016 | 16 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.019 | 19.05 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.020 | 20 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.022 | 22 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.025 | 25 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.026 | 25.40 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 157.116 | 16 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 157.119 | 19.05 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 157.120 | 20 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 157.125 | 25 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 157.126 | 25.40 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 157.216 | 16 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 157.219 | 19.05 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 157.220 | 20 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 157.222 | 22 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 157.225 | 25 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 157.226 | 25.40 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 157.325 | 25 | 68 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 157.326 | 25.40 | 68 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 157.330 | 30 | 68 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 157.331 | 31.75 | 68 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 157.332 | 32 | 68 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

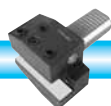
- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

DATI TECNICI E MODO D'USO

- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.

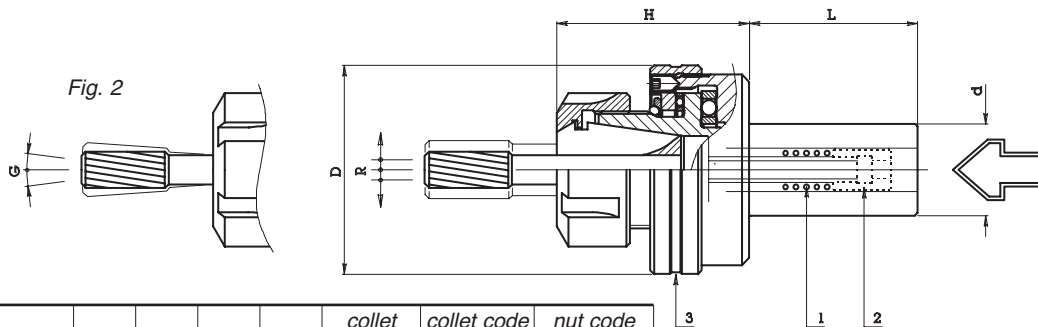
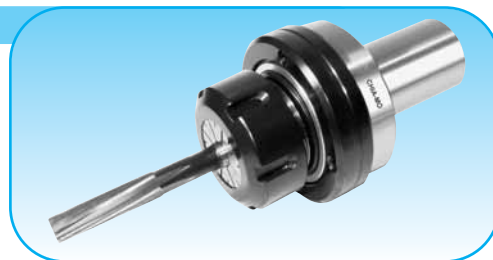




P. ALESATORI FLOTTANTI CON REFRIGERAZIONE INTERNA

FLOATING REAMER HOLDERS WITH COOLANT FLOW

Pinze DIN 6499/B
Collets DIN 6499/B



Refrigerazione interna
Coolant flow

| Code | | | | | | collet | collet code | nut code |
|---------|--------|----|----|----|-----|--------|-------------|-------------|
| ART. | d | D | H | L | R | pinza | art. pinza | art. ghiera |
| 155.715 | 15.875 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.716 | 16 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.719 | 19.05 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.720 | 20 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.722 | 22 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.725 | 25 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.726 | 25.40 | 42 | 40 | 46 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.015 | 15.875 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.016 | 16 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.019 | 19.05 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.020 | 20 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.022 | 22 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.025 | 25 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.026 | 25.40 | 42 | 44 | 46 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.116 | 16 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.119 | 19.05 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.120 | 20 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.125 | 25 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.126 | 25.40 | 50 | 50 | 46 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.216 | 16 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.219 | 19.05 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.220 | 20 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.222 | 22 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.225 | 25 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.226 | 25.40 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.232 | 32 | 57 | 53 | 46 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.325 | 25 | 69 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.326 | 25.40 | 69 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.330 | 30 | 69 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.331 | 31.75 | 69 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.332 | 32 | 69 | 58 | 50 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.425 | 25 | 79 | 64 | 50 | 1.5 | ERC 40 | 050.040 | 052.340 |
| 155.426 | 25.40 | 79 | 64 | 50 | 1.5 | ERC 40 | 050.040 | 052.340 |
| 155.430 | 30 | 79 | 64 | 50 | 1.5 | ERC 40 | 050.040 | 052.340 |
| 155.431 | 31.75 | 79 | 64 | 50 | 1.5 | ERC 40 | 050.040 | 052.340 |
| 155.432 | 32 | 79 | 64 | 50 | 1.5 | ERC 40 | 050.040 | 052.340 |

R = Capacità di movimento radiale più o meno dal centro
R = radial stroke from centre

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

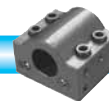
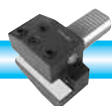
- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

DATI TECNICI E MODO D'USO

- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.





P. ALESATORI FLOTTANTI CON ATTACCO A CONO MORSE

MORSE TAPER FLOATING REAMER HOLDER

Pinze DIN 6499/B
Collets DIN 6499/B

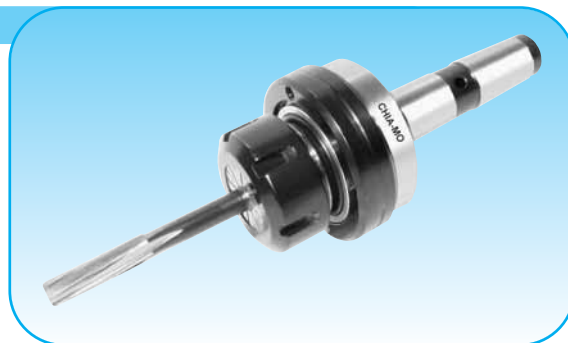
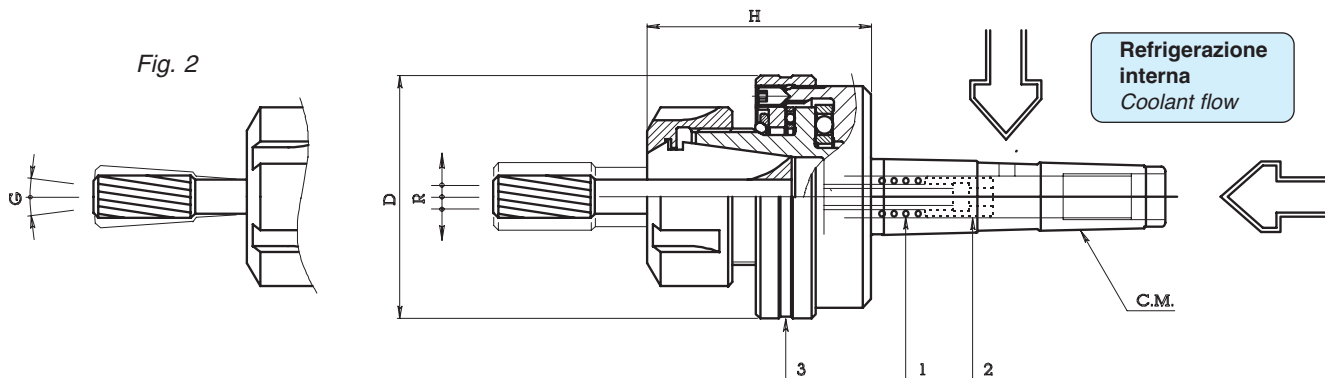


Fig. 2



**R = Capacità di movimento radiale
più o meno dal centro**
R = radial stroke from centre

| Code | | | | | | collet | collet code | nut code |
|---------|-------|----|----|-----|-----|--------|-------------|-------------|
| ART. | C.M. | D | H | L | R | pinza | art. pinza | art. ghiera |
| 155.702 | C.M.2 | 42 | 40 | 69 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.703 | C.M.3 | 42 | 40 | 86 | 1 | ERC 11 | 050.011 | 052.411 |
| 155.002 | C.M.2 | 42 | 44 | 69 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.003 | C.M.3 | 42 | 44 | 86 | 1 | ERC 16 | 050.016 | 052.216 |
| 155.102 | C.M.2 | 50 | 50 | 69 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.103 | C.M.3 | 50 | 50 | 86 | 1 | ERC 20 | 050.020 | 052.220 |
| 155.202 | C.M.2 | 57 | 53 | 69 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.203 | C.M.3 | 57 | 53 | 86 | 1 | ERC 25 | 050.025 | 052.325 |
| 155.303 | C.M.3 | 69 | 58 | 86 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.304 | C.M.4 | 69 | 58 | 109 | 1.5 | ERC 32 | 050.032 | 052.332 |
| 155.403 | C.M.3 | 79 | 64 | 86 | 1.5 | ERC 40 | 050.040 | 052.340 |
| 155.404 | C.M.4 | 79 | 64 | 109 | 1.5 | ERC 40 | 050.040 | 052.340 |

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

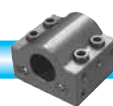
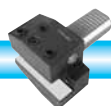
- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

DATI TECNICI E MODO D'USO

- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.





MANDRINI DOPPI PORTA PINZE Tipo 159 CON GHIERA MINI

DOUBLE - SEATED COLLET SPINDLES WITH MINI CLAMPING NUT

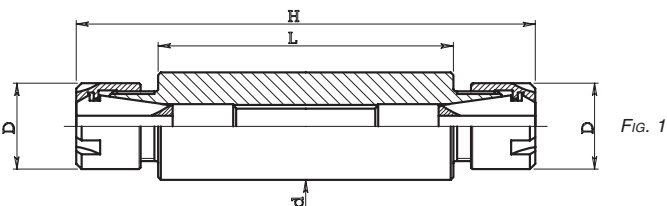


Fig. 1

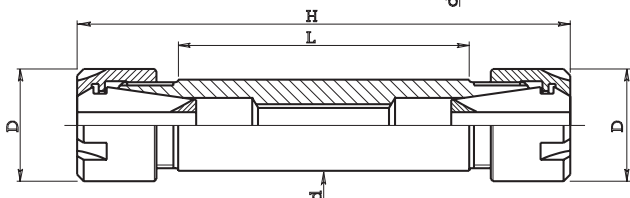


Fig. 2



Pinze DIN 6499/B
Collets DIN 6499/B

| Code | d | L | H | D | Collet | Fig. |
|-------------|----------|----------|----------|----------|--------------|-------------|
| ART. | d | L | H | D | Pinza | Fig. |
| 159.716 040 | 16 | 40 | 71 | 16 | ERC 11 | 1 |
| 159.719 042 | 19.05 | 42 | 70 | 16 | ERC 11 | 1 |
| 159.719 052 | 19.05 | 52 | 80 | 16 | ERC 11 | 1 |
| 159.719 062 | 19.05 | 62 | 90 | 16 | ERC 11 | 1 |
| 159.719 092 | 19.05 | 92 | 120 | 16 | ERC 11 | 1 |
| 159.719 102 | 19.05 | 102 | 130 | 16 | ERC 11 | 1 |
| 159.719 112 | 19.05 | 112 | 140 | 16 | ERC 11 | 1 |
| 159.720 042 | 20 | 42 | 70 | 16 | ERC 11 | 1 |
| 159.720 052 | 20 | 52 | 80 | 16 | ERC 11 | 1 |
| 159.720 062 | 20 | 62 | 90 | 16 | ERC 11 | 1 |

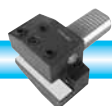
ERC 11

| ART. | d | L | H | D | Pinza | Fig. |
|-------------|-------|-----|-----|----|--------|------|
| 159.019 037 | 19.05 | 37 | 80 | 22 | ERC 16 | 2 |
| 159.019 057 | 19.05 | 57 | 100 | 22 | ERC 16 | 2 |
| 159.019 067 | 19.05 | 67 | 110 | 22 | ERC 16 | 2 |
| 159.020 037 | 20 | 37 | 80 | 22 | ERC 16 | 2 |
| 159.020 057 | 20 | 57 | 100 | 22 | ERC 16 | 2 |
| 159.020 067 | 20 | 67 | 110 | 22 | ERC 16 | 2 |
| 159.020 122 | 20 | 122 | 165 | 22 | ERC 16 | 2 |
| 159.022 027 | 22 | 27 | 70 | 22 | ERC 16 | 1 |
| 159.022 047 | 22 | 47 | 90 | 22 | ERC 16 | 1 |
| 159.022 067 | 22 | 67 | 110 | 22 | ERC 16 | 1 |
| 159.022 102 | 22 | 102 | 145 | 22 | ERC 16 | 1 |
| 159.022 122 | 22 | 122 | 165 | 22 | ERC 16 | 1 |
| 159.025 027 | 25 | 27 | 70 | 22 | ERC 16 | 1 |
| 159.025 047 | 25 | 47 | 90 | 22 | ERC 16 | 1 |
| 159.025 067 | 25 | 67 | 110 | 22 | ERC 16 | 1 |
| 159.026 027 | 25.40 | 27 | 70 | 22 | ERC 16 | 1 |
| 159.026 047 | 25.40 | 47 | 90 | 22 | ERC 16 | 1 |
| 159.026 067 | 25.40 | 67 | 110 | 22 | ERC 16 | 1 |

ERC 16

| ART. | d | L | H | D | Pinza | Fig. |
|-------------|-------|----|-----|----|--------|------|
| 159.125 082 | 25 | 82 | 130 | 28 | ERC 20 | 2 |
| 159.126 082 | 25.40 | 82 | 130 | 28 | ERC 20 | 2 |
| 159.132 057 | 32 | 57 | 105 | 28 | ERC 20 | 1 |
| 159.132 082 | 32 | 82 | 130 | 28 | ERC 20 | 1 |

ERC 20

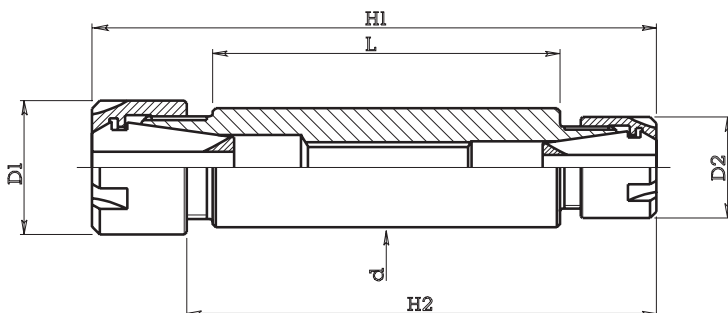




MANDRINI DOPPI PORTA PINZE Tipo 158 CON GHIERA MINI

DOUBLE - SEATED COLLET SPINDLES WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet 1 | Collet 2 | |
|-------------|-------|----|----|----|----|----------|----------|---------|
| ART. | d | L | H1 | H2 | D1 | Pinza 1 | D2 | Pinza 2 |
| 158.019 050 | 19.05 | 50 | 85 | 68 | 22 | ERC 16 | 16 | ERC 11 |
| 158.020 050 | 20 | 50 | 85 | 68 | 22 | ERC 16 | 16 | ERC 11 |

ERC 16 - ERC 11

| ART. | d | L | H1 | H2 | D1 | Pinza 1 | D2 | Pinza 2 |
|-------------|-------|----|----|----|----|---------|----|---------|
| 158.119 050 | 19.05 | 50 | 91 | 72 | 28 | ERC 20 | 16 | ERC 11 |
| 158.120 050 | 20 | 50 | 91 | 72 | 28 | ERC 20 | 16 | ERC 11 |

ERC 20 - ERC 11

| ART. | d | L | H1 | H2 | D1 | Pinza 1 | D2 | Pinza 2 |
|-------------|----|----|-----|----|----|---------|----|---------|
| 158.122 045 | 22 | 45 | 90 | 71 | 28 | ERC 20 | 22 | ERC 16 |
| 158.122 060 | 22 | 60 | 105 | 86 | 28 | ERC 20 | 22 | ERC 16 |
| 158.125 045 | 25 | 45 | 90 | 71 | 28 | ERC 20 | 22 | ERC 16 |
| 158.125 060 | 25 | 60 | 105 | 86 | 28 | ERC 20 | 22 | ERC 16 |

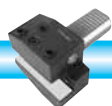
ERC 20 - ERC 16

| ART. | d | L | H1 | H2 | D1 | Pinza 1 | D2 | Pinza 2 |
|-------------|----|----|-----|----|----|---------|----|---------|
| 158.225 045 | 25 | 45 | 91 | 71 | 35 | ERC 25 | 22 | ERC 16 |
| 158.225 060 | 25 | 60 | 106 | 86 | 35 | ERC 25 | 22 | ERC 16 |

ERC 25 - ERC 16

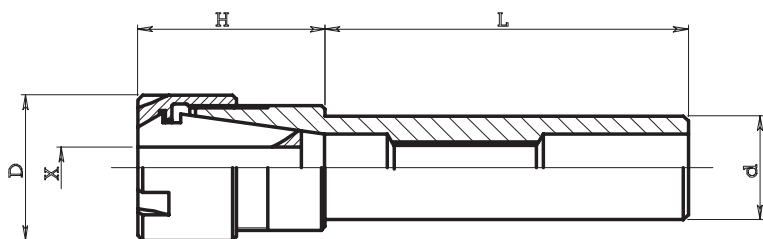
| ART. | d | L | H1 | H2 | D1 | Pinza 1 | D2 | Pinza 2 |
|-------------|----|----|-----|----|----|---------|----|---------|
| 158.232 060 | 32 | 60 | 108 | 88 | 35 | ERC 25 | 28 | ERC 20 |

ERC 25 - ERC 20





MANDRINI PORTA PINZE Tipo 162 e 161 CON GHIERA MINI
COLLET SPINDLES WITH MINI CLAMPING NUT



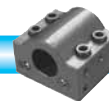
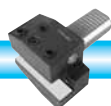
Pinze DIN 6499/B
Collets DIN 6499/B

| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|------|-----|----|----|---------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 162.805 045 | 5 | 45 | 22 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.806 045 | 6 | 45 | 22 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.808 055 | 8 | 55 | 22 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.808 080 | 8 | 80 | 22 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.810 055 | 10 | 55 | 20 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.810 080 | 10 | 80 | 20 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.812 100 | 12 | 100 | 20 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |
| 162.813 100 | 12.7 | 100 | 20 | 12 | 0.5 - 5 | ERC 8 | 050.008 | 052.108 | 053.108 |

ERC 8

| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
|-------------|--------|-----|----|----|---------|--------|------------|-------------|-------------|
| 162.706 045 | 6 | 45 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.707 045 | 7 | 45 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.708 055 | 8 | 55 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.708 100 | 8 | 100 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.710 055 | 10 | 55 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.710 100 | 10 | 100 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.712 070 | 12 | 70 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 162.712 100 | 12 | 100 | 26 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.715 100 | 15.875 | 100 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.716 040 | 16 | 40 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.716 100 | 16 | 100 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.716 160 | 16 | 160 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.719 100 | 19.05 | 100 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.720 100 | 20 | 100 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.720 160 | 20 | 160 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.722 120 | 22 | 120 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |
| 161.726 120 | 25.40 | 120 | 20 | 16 | 0.5 - 7 | ERC 11 | 050.011 | 052.111 | 053.111 |

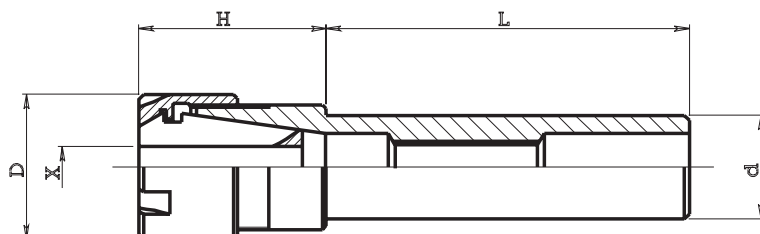
ERC 11





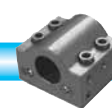
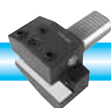
MANDRINI PORTA PINZE Tipo 162 e 161 CON GHIERA MINI
COLLET SPINDLES WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|--------|-----|----|----|----------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 162.008 055 | 8 | 55 | 36 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 162.008 100 | 8 | 100 | 36 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 162.010 060 | 10 | 60 | 36 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 162.012 080 | 12 | 80 | 36 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 162.014 080 | 14 | 80 | 36 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.015 034 | 15.875 | 34 | 25 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.015 060 | 15.875 | 60 | 40 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.016 034 | 16 | 34 | 25 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.016 060 | 16 | 60 | 40 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.016 100 | 16 | 100 | 40 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.016 160 | 16 | 160 | 40 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.019 060 | 19.05 | 60 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.019 070 | 19.05 | 70 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.019 100 | 19.05 | 100 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.019 130 | 19.05 | 130 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.020 060 | 20 | 60 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.020 100 | 20 | 100 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.020 130 | 20 | 130 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.022 125 | 22 | 125 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.023 070 | 23 | 70 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.025 060 | 25 | 60 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.025 100 | 25 | 100 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.025 130 | 25 | 130 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.025 160 | 25 | 160 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |
| 161.026 100 | 25.40 | 100 | 24 | 22 | 0.5 - 10 | ERC 16 | 050.016 | 052.116 | 053.116 |

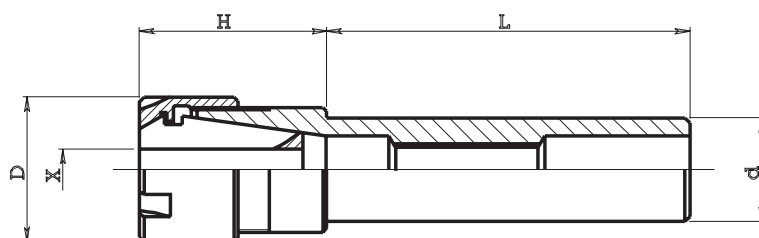
ERC 16





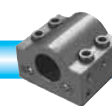
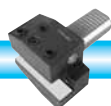
MANDRINI PORTA PINZE Tipo 161 CON GHIERA MINI
COLLET SPINDLE WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|-------|-----|----|----|----------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 161.116 055 | 16 | 55 | 40 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.116 100 | 16 | 100 | 40 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.119 046 | 19.05 | 46 | 36 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.119 100 | 19.05 | 100 | 36 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.119 160 | 19.05 | 160 | 36 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.120 046 | 20 | 46 | 36 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.120 100 | 20 | 100 | 36 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.120 160 | 20 | 160 | 36 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.122 080 | 22 | 80 | 32 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.125 070 | 25 | 70 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.125 100 | 25 | 100 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.125 130 | 25 | 130 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.125 160 | 25 | 160 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.126 070 | 25.40 | 70 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.126 100 | 25.40 | 100 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.126 130 | 25.40 | 130 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.126 160 | 25.40 | 160 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.132 064 | 32 | 64 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |
| 161.132 095 | 32 | 95 | 26 | 28 | 0.5 - 13 | ERC 20 | 050.020 | 052.120 | 053.120 |

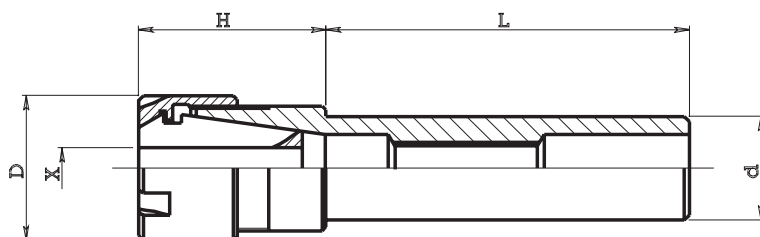
ERC 20





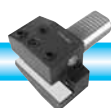
MANDRINI PORTA PINZE Tipo 161 CON GHIERA MINI
COLLET SPINDLE WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | d | L | H | D | X | Collet | Collet code | Nut code | Spanner code |
|-------------|-------|-----|----|----|----------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 161.219 046 | 19.05 | 46 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.219 100 | 19.05 | 100 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.220 046 | 20 | 46 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.220 060 | 20 | 60 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.220 100 | 20 | 100 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.220 130 | 20 | 130 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.220 160 | 20 | 160 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.222 080 | 22 | 80 | 46 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.225 046 | 25 | 46 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.225 070 | 25 | 70 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.225 100 | 25 | 100 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.225 160 | 25 | 160 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.226 046 | 25.40 | 46 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.226 070 | 25.40 | 70 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.226 100 | 25.40 | 100 | 32 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.240 100 | 40 | 100 | 27 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |
| 161.240 120 | 40 | 120 | 27 | 35 | 0.5 - 16 | ERC 25 | 050.025 | 052.125 | 053.125 |

ERC 25

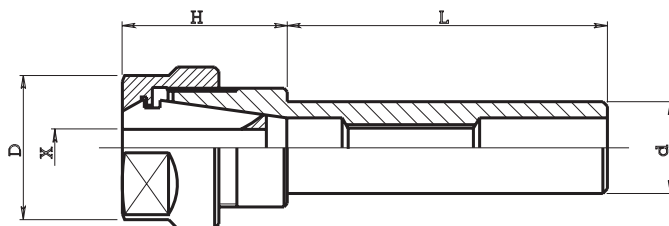




MANDRINI PORTA PINZE Tipo 160 CON GHIERA ESAGONALE
COLLET SPINDLE WITH HEXAGONAL CLAMPING NUT

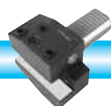


Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|--------|-----|----|----|----------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 160.015 034 | 15.875 | 34 | 28 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.015 060 | 15.875 | 60 | 30 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.016 034 | 16 | 34 | 28 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.016 060 | 16 | 60 | 30 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.016 100 | 16 | 100 | 30 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.016 160 | 16 | 160 | 30 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.019 046 | 19.05 | 46 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.019 100 | 19.05 | 100 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.020 046 | 20 | 46 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.020 100 | 20 | 100 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.020 160 | 20 | 160 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.022 046 | 22 | 46 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.022 080 | 22 | 80 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.022 100 | 22 | 100 | 26 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.025 070 | 25 | 70 | 24 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.025 160 | 25 | 160 | 24 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.026 070 | 25.40 | 70 | 24 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |
| 160.032 100 | 32 | 100 | 24 | 28 | 0.5 - 10 | ERC 16 | 050.016 | 052.216 | 053.216 |

ERC 16

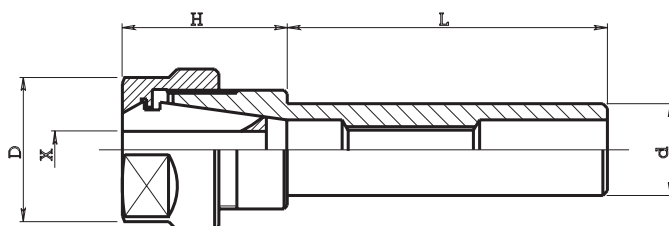




MANDRINI PORTA PINZE Tipo 160 CON GHIERA ESAGONALE
COLLET SPINDLE WITH HEXAGONAL CLAMPING NUT

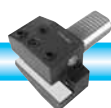


Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|-------|-----|----|----|----------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 160.119 046 | 19.05 | 46 | 36 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.119 100 | 19.05 | 100 | 36 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.120 046 | 20 | 46 | 36 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.120 070 | 20 | 70 | 36 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.120 100 | 20 | 100 | 36 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.122 046 | 22 | 46 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.122 080 | 22 | 80 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.125 060 | 25 | 60 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.125 080 | 25 | 80 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.126 060 | 25.40 | 60 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.126 080 | 25.40 | 80 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.130 155 | 30 | 155 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |
| 160.132 105 | 32 | 105 | 26 | 34 | 0.5 - 13 | ERC 20 | 050.020 | 052.220 | 053.220 |

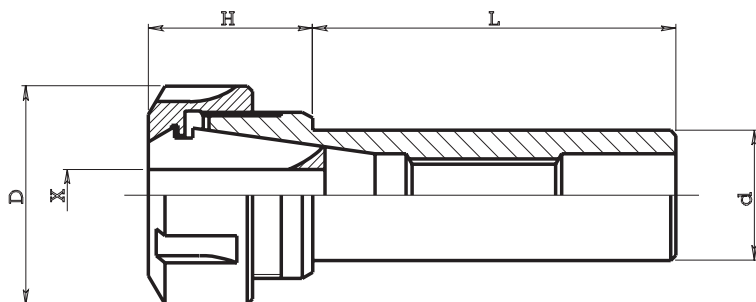
ERC 20





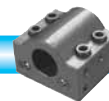
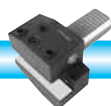
MANDRINI PORTA PINZE Tipo 160 CON GHIERA STANDARD
COLLET SPINDLE WITH STANDARD CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|-------|-----|----|----|----------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 160.219 046 | 19.05 | 46 | 46 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.219 100 | 19.05 | 100 | 46 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.220 046 | 20 | 46 | 46 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.220 100 | 20 | 100 | 46 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.222 046 | 22 | 46 | 46 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.222 100 | 22 | 100 | 46 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.225 050 | 25 | 50 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.225 070 | 25 | 70 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.225 100 | 25 | 100 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.226 050 | 25.40 | 50 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.226 070 | 25.40 | 70 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.226 100 | 25.40 | 100 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.226 120 | 25.40 | 120 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.230 070 | 30 | 70 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.231 070 | 31.75 | 70 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.232 070 | 32 | 70 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.232 100 | 32 | 100 | 32 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |
| 160.244 155 | 44.45 | 155 | 28 | 42 | 0.5 - 16 | ERC 25 | 050.025 | 052.325 | 053.325 |

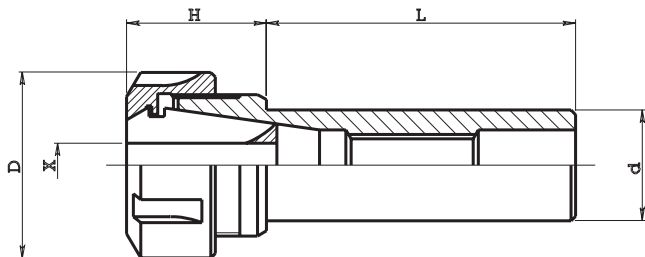
ERC 25





MANDRINI PORTA PINZE Tipo 160 CON GHIERA STANDARD

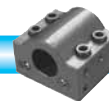
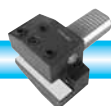
COLLET SPINDLE WITH STANDARD CLAMPING NUT



Pinze DIN 6499/B
Collets DIN 6499/B

ERC 32

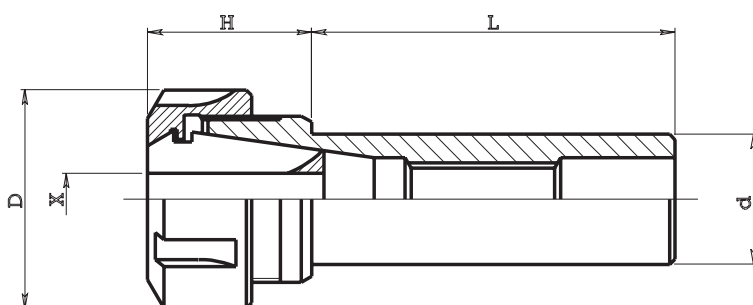
| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|-------|-----|----|----|--------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 160.319 050 | 19.05 | 50 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.320 050 | 20 | 50 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.322 050 | 22 | 50 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.325 050 | 25 | 50 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.325 070 | 25 | 70 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.325 100 | 25 | 100 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.326 050 | 25.40 | 50 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.326 070 | 25.40 | 70 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.326 100 | 25.40 | 100 | 53 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.330 050 | 30 | 50 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.330 070 | 30 | 70 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.330 140 | 30 | 140 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.331 050 | 31.75 | 50 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.331 070 | 31.75 | 70 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.332 050 | 32 | 50 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.332 070 | 32 | 70 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.332 100 | 32 | 100 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.332 140 | 32 | 140 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.335 050 | 35 | 50 | 27 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.335 070 | 35 | 70 | 27 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.338 140 | 38.10 | 140 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.340 085 | 40 | 85 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.340 155 | 40 | 155 | 30 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.344 085 | 44.45 | 85 | 45 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.344 155 | 44.45 | 155 | 30 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.350 155 | 50 | 155 | 30 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.351 155 | 50.80 | 155 | 30 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.360 155 | 60 | 155 | 30 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |
| 160.363 155 | 63.50 | 155 | 30 | 50 | 1 - 20 | ERC 32 | 050.032 | 052.332 | 053.332 |





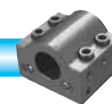
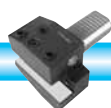
MANDRINI PORTA PINZE Tipo 160 CON GHIERA STANDARD
COLLET SPINDLE WITH STANDARD CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | | Collet | Collet code | Nut code | Spanner code |
|-------------|-------|-----|----|----|--------|--------|-------------|-------------|--------------|
| ART. | d | L | H | D | X | Pinza | Art. pinza | Art. ghiera | Art. chiave |
| 160.425 050 | 25 | 50 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.426 050 | 25.40 | 50 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.431 050 | 31.75 | 50 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.431 070 | 31.75 | 70 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.432 070 | 32 | 70 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.438 155 | 38.10 | 155 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.440 050 | 40 | 50 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.440 080 | 40 | 80 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.440 155 | 40 | 155 | 60 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.444 155 | 44.45 | 155 | 45 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.450 170 | 50 | 170 | 35 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.451 170 | 50.80 | 170 | 35 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.460 170 | 60 | 170 | 35 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |
| 160.463 170 | 63.50 | 170 | 35 | 63 | 2 - 30 | ERC 40 | 050.040 | 052.340 | 053.340 |

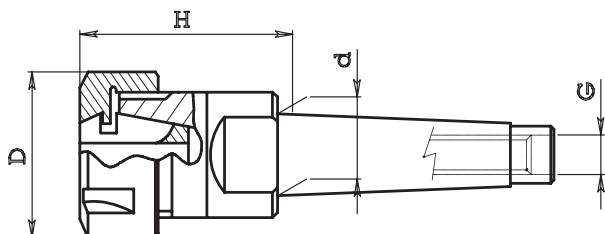
ERC 40



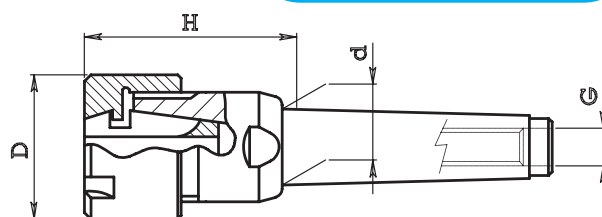


MANDRINI PORTA PINZA A CONO MORSE Tipo 163

MORSE TAPER SHANK COLLET CHUCKS



Pinze DIN 6499/B
Collets DIN 6499/B



GHIERA STANDARD - STANDARD NUT

| Code | M.T. | | | | | collet | collet code |
|---------|-------|--------|-----|----|----|--------|-------------|
| ART. | C.M. | d | G | H | D | pinza | art. pinza |
| 163.701 | C.M.1 | 12.065 | M6 | 25 | 19 | ERC 11 | 050.011 |
| 163.001 | C.M.1 | 12.065 | M6 | 40 | 28 | ERC 16 | 050.016 |
| 163.002 | C.M.2 | 17.780 | M10 | 42 | 28 | ERC 16 | 050.016 |
| 163.102 | C.M.2 | 17.780 | M10 | 50 | 34 | ERC 20 | 050.020 |
| 163.202 | C.M.2 | 17.780 | M10 | 54 | 42 | ERC 25 | 050.025 |
| 163.203 | C.M.3 | 23.825 | M12 | 53 | 42 | ERC 25 | 050.025 |
| 163.303 | C.M.3 | 23.825 | M12 | 70 | 50 | ERC 32 | 050.032 |
| 163.403 | C.M.3 | 23.825 | M12 | 80 | 63 | ERC 40 | 050.040 |
| 163.304 | C.M.4 | 31.267 | M16 | 60 | 50 | ERC 32 | 050.032 |
| 163.404 | C.M.4 | 31.267 | M16 | 81 | 63 | ERC 40 | 050.040 |

GHIERA MINI - MINI NUT

| Code | M.T. | | | | | collet | collet code |
|---------|-------|--------|-----|----|----|--------|-------------|
| ART. | C.M. | d | G | H | D | pinza | art. pinza |
| 164.701 | C.M.1 | 12.065 | M6 | 25 | 16 | ERC 11 | 050.011 |
| 164.001 | C.M.1 | 12.065 | M6 | 40 | 22 | ERC 16 | 050.016 |
| 164.002 | C.M.2 | 17.780 | M10 | 42 | 22 | ERC 16 | 050.016 |
| 164.102 | C.M.2 | 17.780 | M10 | 50 | 28 | ERC 20 | 050.020 |
| 164.202 | C.M.2 | 17.780 | M10 | 54 | 35 | ERC 25 | 050.025 |
| 164.003 | C.M.3 | 23.825 | M12 | 43 | 22 | ERC 16 | 050.016 |
| 164.103 | C.M.3 | 23.825 | M12 | 47 | 28 | ERC 20 | 050.020 |
| 164.203 | C.M.3 | 23.825 | M12 | 58 | 35 | ERC 25 | 050.025 |

MANDRINO PORTA PINZE CON GHIERA MINI

COLLET SPINDLE WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B

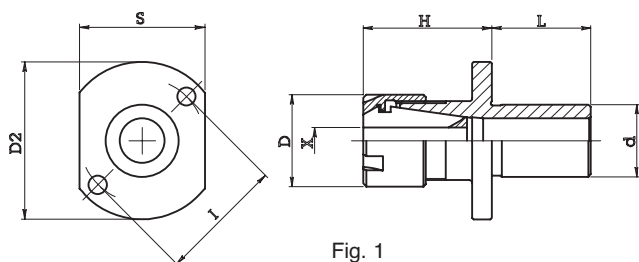


Fig. 1

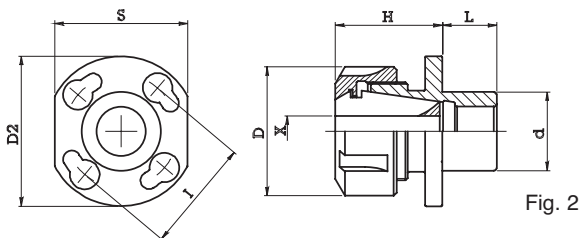
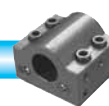
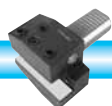


Fig. 2

| | Code | | | | | | | | | collet | collet code | nut code | |
|--------------------|--------------|----|----|----|----|----------|----|----|----|--------|-------------|-------------|------|
| | ART. | d | L | H | D | X | D2 | S | I | Pinza | Art. pinza | Art. ghiera | Fig. |
| | 165.016.021 | 16 | 21 | 28 | 22 | 0.5-10 | 40 | 24 | 31 | ERC 16 | 050.016 | 052.116 | 1 |
| STAR SR 20 | 165.022.025 | 22 | 25 | 39 | 22 | 0.5 - 10 | 49 | 28 | 40 | ERC 16 | 050.016 | 052.116 | 1 |
| STAR SR 32 | 165.122.025 | 22 | 25 | 40 | 28 | 0.5 - 13 | 49 | 28 | 40 | ERC 20 | 050.020 | 052.120 | 1 |
| STAR SR 20 | 165.122.030 | 22 | 30 | 35 | 28 | 0.5 - 13 | 48 | 38 | 38 | ERC 20 | 050.020 | 052.120 | 1 |
| STAR SR 32 | 165.122.030B | 22 | 30 | 35 | 28 | 0.5 - 13 | 60 | 38 | 50 | ERC 20 | 050.020 | 052.120 | 1 |
| GILDEM. GM32-35-42 | 166.332.022 | 32 | 22 | 36 | 50 | 1 - 20 | 61 | 54 | 46 | ERC 32 | 050.032 | 052.332 | 2 |

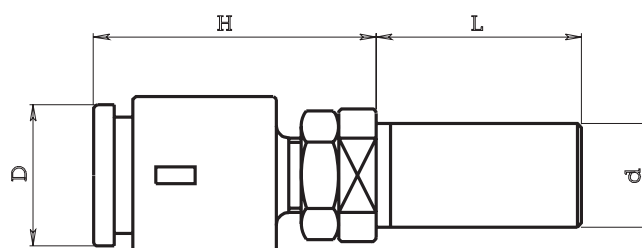




FERMO BARRA ROTANTE Tipo 170

ADJUSTABLE STOP - SHOCK ABSORBER FOR LATHES

| Code | | | | | | |
|---------|--------|----|-------|-------|----|--|
| ART. | d | L | H min | H max | D | |
| 170.115 | 15.875 | 32 | 36 | 62 | 20 | |
| 170.116 | 16 | 32 | 36 | 62 | 20 | |
| 170.119 | 19.05 | 32 | 36 | 62 | 20 | |
| | | | | | | |
| 170.219 | 19.05 | 46 | 45 | 75 | 26 | |
| 170.220 | 20 | 46 | 45 | 75 | 26 | |
| 170.222 | 22 | 46 | 45 | 75 | 26 | |
| 170.225 | 25 | 46 | 45 | 75 | 26 | |
| 170.226 | 25.40 | 46 | 45 | 75 | 26 | |
| | | | | | | |
| 170.319 | 19.05 | 46 | 62 | 100 | 35 | |
| 170.320 | 20 | 46 | 62 | 100 | 35 | |
| 170.322 | 22 | 46 | 62 | 100 | 35 | |
| 170.325 | 25 | 50 | 62 | 100 | 35 | |
| 170.326 | 25.40 | 50 | 62 | 100 | 35 | |
| 170.330 | 30 | 50 | 62 | 100 | 35 | |
| 170.331 | 31.75 | 50 | 62 | 100 | 35 | |
| 170.332 | 32 | 50 | 62 | 100 | 35 | |
| 170.340 | 40 | 85 | 62 | 100 | 35 | |
| | | | | | | |
| 170.425 | 25 | 50 | 62 | 100 | 56 | |
| 170.426 | 25.40 | 50 | 62 | 100 | 56 | |
| 170.430 | 30 | 50 | 62 | 100 | 56 | |
| 170.431 | 31.75 | 50 | 62 | 100 | 56 | |
| 170.432 | 32 | 50 | 62 | 100 | 56 | |
| 170.440 | 40 | 85 | 62 | 100 | 56 | |

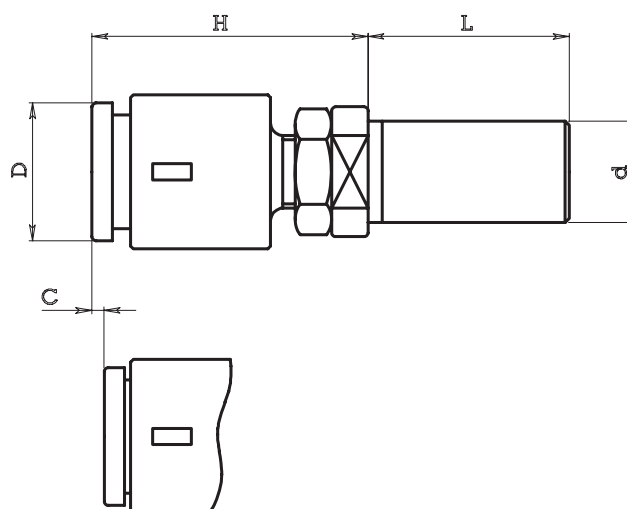


Il 170.2.. si può avere anche con il piattello rotante di diametro D = 35
Code 170.2.. is available with D = 35

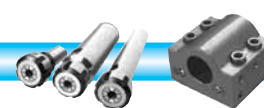
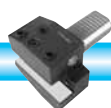
FERMO BARRA ROTANTE COMPENSATO Tipo 170 B

ADJUSTABLE STOP - SHOCK ABSORBER FOR LATHES WITH SPRINGS

| Code | | | | | | |
|----------|-------|----|-------|-------|----|---|
| ART. | d | L | H min | H max | D | C |
| 170.319B | 19.05 | 46 | 62 | 100 | 35 | 3 |
| 170.320B | 20 | 46 | 62 | 100 | 35 | 3 |
| 170.322B | 22 | 46 | 62 | 100 | 35 | 3 |
| 170.325B | 25 | 50 | 62 | 100 | 35 | 3 |
| 170.326B | 25.40 | 50 | 62 | 100 | 35 | 3 |
| 170.330B | 30 | 50 | 62 | 100 | 35 | 3 |
| 170.331B | 31.75 | 50 | 62 | 100 | 35 | 3 |
| 170.332B | 32 | 50 | 62 | 100 | 35 | 3 |
| 170.340B | 40 | 85 | 62 | 100 | 35 | 3 |
| | | | | | | |
| 170.425B | 25 | 50 | 62 | 100 | 56 | 3 |
| 170.426B | 25.40 | 50 | 62 | 100 | 56 | 3 |
| 170.430B | 30 | 50 | 62 | 100 | 56 | 3 |
| 170.431B | 31.75 | 50 | 62 | 100 | 56 | 3 |
| 170.432B | 32 | 50 | 62 | 100 | 56 | 3 |
| 170.440B | 40 | 85 | 62 | 100 | 56 | 3 |



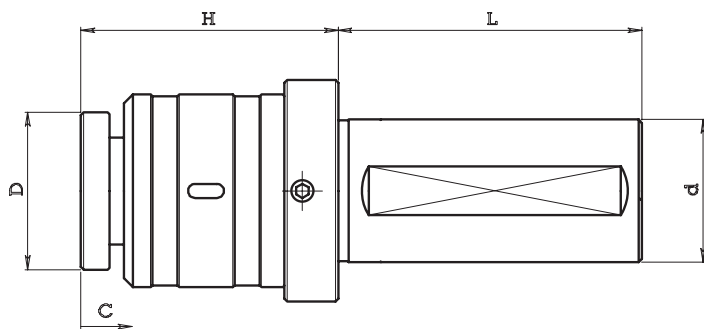
C = Corsa di compressione
C = Absorber stroke





FERMO BARRA ROTANTE COMPENSATO

ADJUSTABLE STOP - SHOCK ABSORBER FOR LATHES

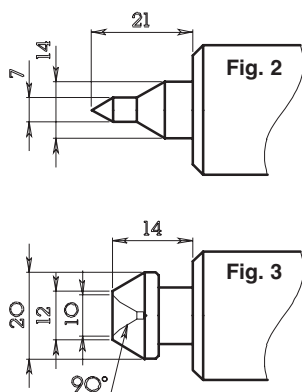
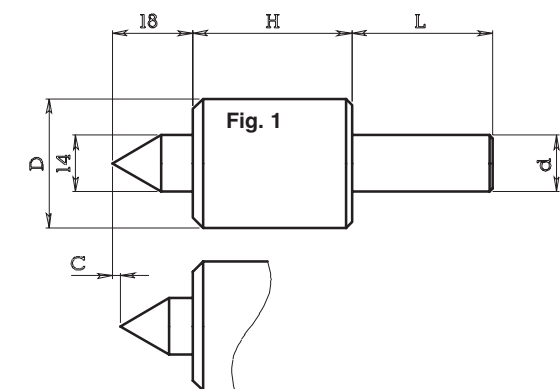
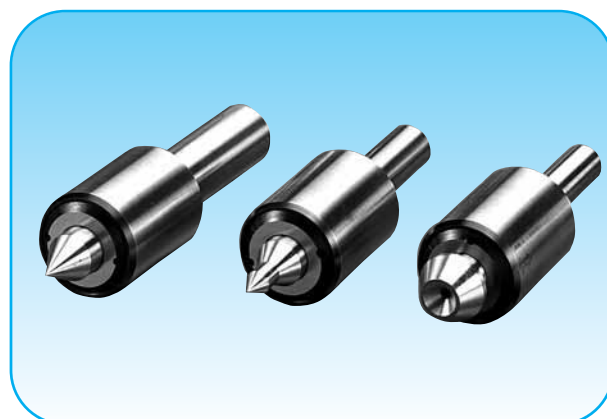


C = Corsa di compressione
C = Absorber stroke

| Code | | | | | | |
|----------|----|----|-------|-------|----|---|
| ART. | d | L | H min | H max | D | C |
| 170.532B | 32 | 70 | 72 | 80 | 44 | 3 |
| 170.540B | 40 | 85 | 72 | 80 | 44 | 3 |
| 170.632B | 32 | 70 | 72 | 80 | 60 | 3 |
| 170.640B | 40 | 85 | 72 | 80 | 60 | 3 |

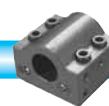
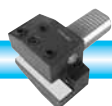
CONTROPUNTA ROTANTE CON COMPRESIONE Tipo 172200

REVOLVING TAILSTOCK WITH COMPRESSION



C = Corsa di compressione
C = Absorber stroke

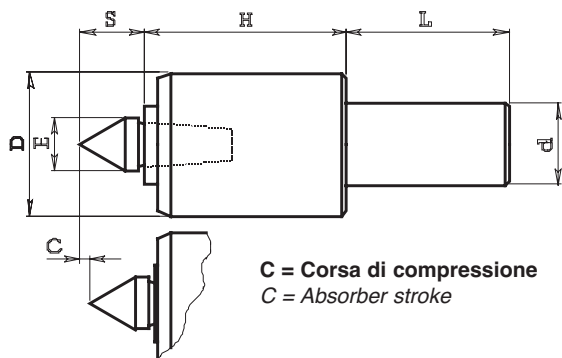
| Code | | | | | | | | | Center |
|------------|------------|------------|--------|----|------|----|---|-------|--------|
| ART. | | | d | D | H | L | C | Punta | |
| FIG. 1 | FIG. 2 | FIG. 3 | | | | | | | |
| 172.208 F1 | 172.208 F2 | 172.208 F3 | 8 | 32 | 39.5 | 35 | 2 | 60° | |
| 172.210 F1 | 172.210 F2 | 172.210 F3 | 10 | 32 | 39.5 | 35 | 2 | 60° | |
| 172.212 F1 | 172.212 F2 | 172.212 F3 | 12 | 32 | 39.5 | 35 | 2 | 60° | |
| 172.214 F1 | 172.214 F2 | 172.214 F3 | 14 | 32 | 39.5 | 35 | 2 | 60° | |
| 172.215 F1 | 172.215 F2 | 172.215 F3 | 15.875 | 32 | 39.5 | 35 | 2 | 60° | |
| 172.216 F1 | 172.216 F2 | 172.216 F3 | 16 | 32 | 39.5 | 35 | 2 | 60° | |
| 172.219 F1 | 172.219 F2 | 172.219 F3 | 19.05 | 32 | 39.5 | 46 | 2 | 60° | |
| 172.220 F1 | 172.220 F2 | 172.220 F3 | 20 | 32 | 39.5 | 46 | 2 | 60° | |
| 172.222 F1 | 172.222 F2 | 172.222 F3 | 22 | 32 | 39.5 | 46 | 2 | 60° | |
| 172.225 F1 | 172.225 F2 | 172.225 F3 | 25 | 32 | 39.5 | 46 | 2 | 60° | |
| 172.226 F1 | 172.226 F2 | 172.226 F3 | 25,40 | 32 | 39.5 | 46 | 2 | 60° | |





CONTROPUNTA ROTANTE CON COMPRESSIONE Tipo 172300

REVOLVING TAILSTOCK WITH COMPRESSION



| Code | | | | | | | |
|---------|--------|----|----|----|----|----|---|
| ART. | d | D | E | H | L | S | C |
| 172.308 | 8 | 32 | 14 | 44 | 35 | 16 | 2 |
| 172.310 | 10 | 32 | 14 | 44 | 35 | 16 | 2 |
| 172.312 | 12 | 32 | 14 | 44 | 35 | 16 | 2 |
| 172.314 | 14 | 32 | 14 | 44 | 35 | 16 | 2 |
| 172.315 | 15.875 | 32 | 14 | 44 | 35 | 16 | 2 |
| 172.316 | 16 | 32 | 14 | 44 | 35 | 16 | 2 |
| 172.319 | 19.05 | 32 | 14 | 44 | 46 | 16 | 2 |
| 172.320 | 20 | 32 | 14 | 44 | 46 | 16 | 2 |
| 172.322 | 22 | 32 | 14 | 44 | 46 | 16 | 2 |
| 172.325 | 25 | 32 | 14 | 44 | 46 | 16 | 2 |
| 172.326 | 25.40 | 32 | 14 | 44 | 46 | 16 | 2 |

La contropunta viene fornita con cuspidi art. 172.301 - salvo diversa identificazione.
The revolving tailstock is provided with code 172.301 (interchangeable insert).

CUSPIDI INTERCAMBIABILI PER CONTROPUNTA

INTERCHANGEABLE INSERT



Per articolo (for Code): 172.300

| Code | | | | | | Center |
|---------|------|----|----|----|----|--------|
| ART. | Fig. | E | S | G | F | Punta |
| 172.301 | 1 | 14 | 16 | - | - | 60° |
| 172.302 | 2 | 14 | 22 | 7 | - | 60° |
| 172.303 | 3 | 20 | 12 | 12 | 10 | 60° |

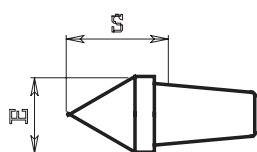


Fig. 1

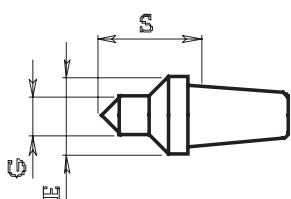


Fig. 2

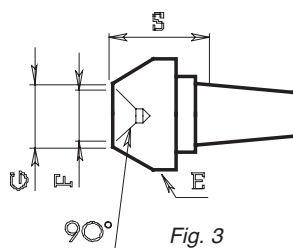
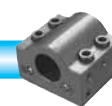
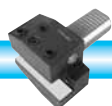


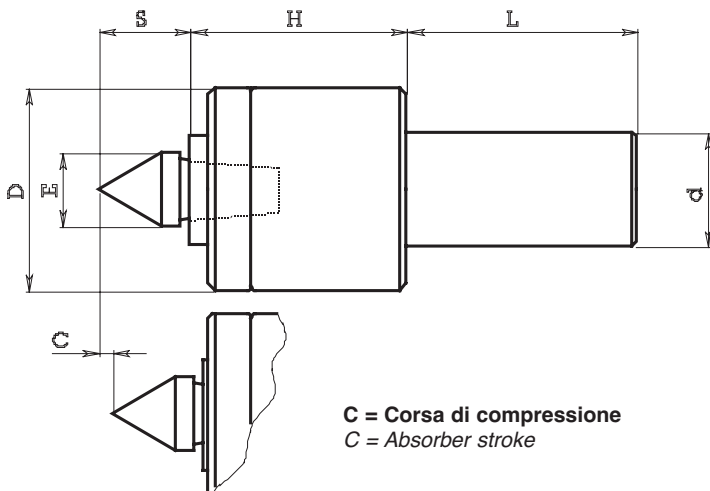
Fig. 3





CONTROPUNTA ROTANTE CON COMPRESSIONE Tipo 172400

REVOLVING TAILSTOCK WITH COMPRESSION



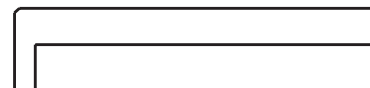
C = Corsa di compressione
C = Absorber stroke



| Code | | | | | | | |
|-------------|-------|----|----|----|----|----|---|
| ART. | d | D | E | H | L | S | C |
| 172.419 | 19.05 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.420 | 20 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.422 | 22 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.425 | 25 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.426 | 25.40 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.430 | 30 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.431 | 31.75 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.432 | 32 | 43 | 18 | 43 | 46 | 21 | 3 |
| 172.400 CM2 | C.M.2 | 43 | 18 | 43 | 69 | 21 | 3 |
| 172.400 CM3 | C.M.3 | 43 | 18 | 43 | 85 | 21 | 3 |

N.B. La contropunta viene fornita con cuspidi art. 172.401
- salvo diversa richiesta
The revolving tailstock is provided with code 172.401
(interchangeable insert)

CHIAVI PER ESTRAZIONE
CUSPIDI ART. 172.411
PULLER CODE 172.411



CUSPIDI INTERCAMBIABILI PER CONTROPUNTA

INTERCHANGEABLE INSERT

Per articolo (for Code): 172.400

| Code | | | | | Center |
|-------------|------|----|----|----|--------|
| ART. | Fig. | E | S | G | Punta |
| 172.401 | 1 | 18 | 21 | — | 60° |
| 172.401 090 | 1 | 18 | 28 | — | 90° |
| 172.402 | 2 | 18 | 27 | 7 | 60° |
| 172.402B | 2 | 18 | 38 | 9 | 60° |
| 172.403 | 3 | 30 | 21 | 14 | 60° |
| 172.404 | 4 | 26 | 20 | 20 | — |

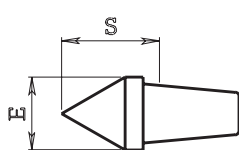


Fig. 1

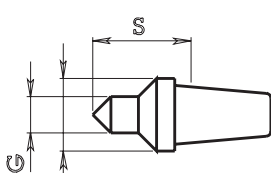


Fig. 2

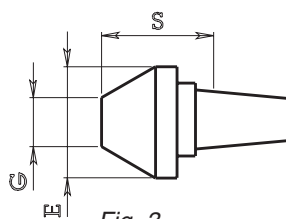


Fig. 3

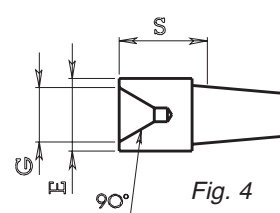
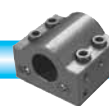
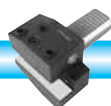
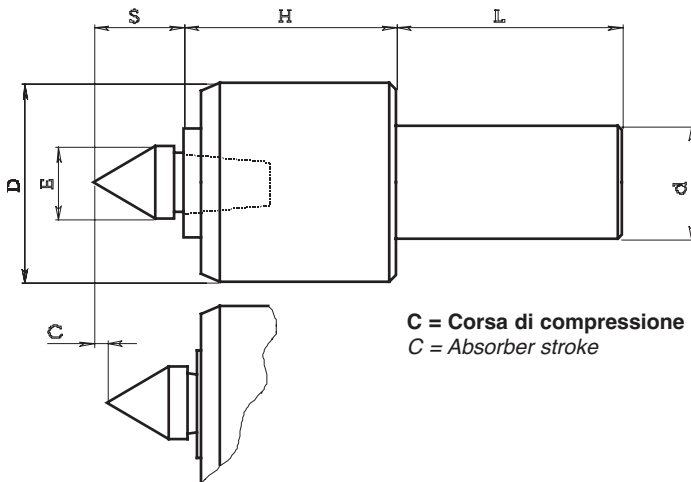


Fig. 4





CONTROPUNTA ROTANTE CON COMPRESSIONE 600 Tipo 172
REVOLVING TAILSTOCK WITH COMPRESSION



C = Corsa di compressione
C = Absorber stroke



| Code | | | | | | | |
|-------------|-------|----|----|----|-----|----|-----|
| ART. | d | D | E | H | L | S | C |
| 172.625 | 25 | 58 | 28 | 71 | 50 | 34 | 2,5 |
| 172.626 | 25.40 | 58 | 28 | 71 | 50 | 34 | 2,5 |
| 172.632 | 32 | 58 | 28 | 71 | 70 | 34 | 2,5 |
| 172.640 | 40 | 58 | 28 | 71 | 85 | 34 | 2,5 |
| 172.600 CM3 | C.M.3 | 58 | 28 | 71 | 85 | 34 | 2,5 |
| 172.600 CM4 | C.M.4 | 58 | 28 | 71 | 109 | 34 | 2,5 |

N.B. La contropunta viene fornita con cuspidi art. 172.601
- salvo diversa richiesta
The revolving tailstock is provided with code 172.601
(interchangeable insert)

CUSPIDI INTERCAMBIABILI PER CONTROPUNTA
INTERCHANGEABLE INSERT

Per articolo (for Code): 172.600

| Code | | | | | Center |
|----------|------|----|----|----|--------|
| ART. | Fig. | E | S | G | Punta |
| 172.601 | 1 | 28 | 34 | — | 60° |
| 172.602 | 2 | 28 | 40 | 7 | 60° |
| 172.602B | 2 | 28 | 40 | 12 | 60° |
| 172.603 | 3 | 58 | 36 | 25 | 60° |
| 172.604 | 4 | 28 | 32 | 24 | — |

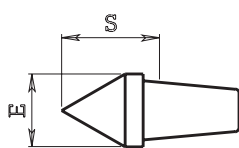
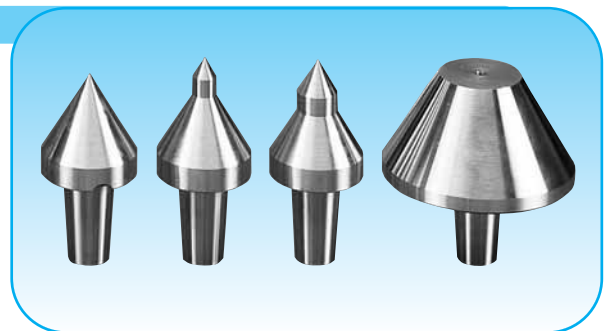


Fig. 1

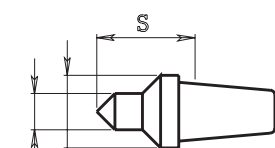


Fig. 2

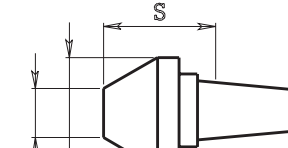


Fig. 3

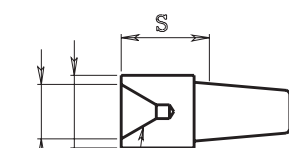
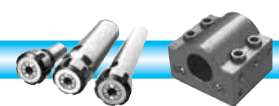
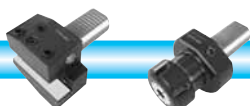


Fig. 4





BROCCIATORE REGISTRABILE Tipo 175
ADJUSTABLE BROACH TOOLHOLDER



PARAMETRI GENERALI PER L'UTILIZZO DEI BROCCIATORI

- Diametro di foratura

Diametro del foro: Uguale alla misura del profilo da eseguire. È consigliabile, se possibile, eseguire una foratura maggiorata dal 1% al 3%, questo per rendere meno gravoso l'avanzamento dell'utensile che broccia.

Lunghezza del preforo: 40% in più della lunghezza del profilo da eseguire.

- Giri della broccia

Parametri consigliati: 1000 - 2000 (giri/min)

- Avanzamento della broccia

Parametri consigliati: 0,01 - 0,03 (mm/giro)

N.B. La brocciatura ha bisogno di iniziare per una profondità da 0,2 a 0,4 mm con un avanzamento più rapido (0,08 - 0,12). In questo modo la broccia si pianta bene sul pezzo e permette alla stessa di andare subito in rotazione.

GENERAL PARAMETERS FOR THE USE OF BROACHING TOOL

- Drilling diameter

Same size (P) as the broach to be machined. It is in any event better, if possible, to make this hole slightly larger, maybe 1% to 3% depending on your personal judgement, to facilitate the drive of the broaching tool.

Length of drill hole: 40% more than the length of the profile to be executed.

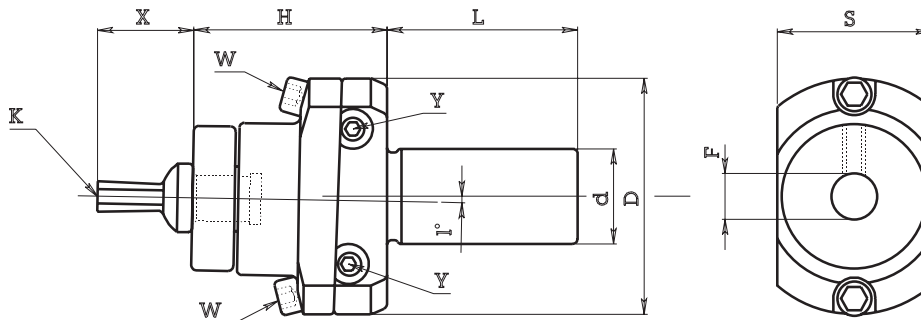
- Rotation Speeds

Recommended parameters: 1000 - 2000 (rpm)

- Feed

Recommended parameters: 0,01 - 0,03 (mm/rpm)

N.B. Broaching needs to start with a depth from 0,2 to 0,4 mm with a quickly progress (0,08 - 0,12) to allow the broach to go immediately into rotation.



| Code | | | | | | |
|---------|--------|----|----|----|---|----|
| ART. | d | H | L | D | F | S |
| 175.102 | C.M.2 | 34 | 68 | 50 | 8 | 30 |
| 175.110 | 10 | 34 | 35 | 50 | 8 | 30 |
| 175.112 | 12 | 34 | 35 | 50 | 8 | 30 |
| 175.114 | 14 | 34 | 35 | 50 | 8 | 30 |
| 175.115 | 15.875 | 34 | 35 | 50 | 8 | 30 |
| 175.116 | 16 | 34 | 35 | 50 | 8 | 30 |
| 175.119 | 19.05 | 34 | 46 | 50 | 8 | 30 |
| 175.120 | 20 | 34 | 46 | 50 | 8 | 30 |
| 175.122 | 22 | 34 | 46 | 50 | 8 | 30 |
| 175.125 | 25 | 34 | 46 | 50 | 8 | 30 |
| 175.126 | 25.40 | 34 | 46 | 50 | 8 | 30 |

| Code | | | | | | |
|---------|-------|----|----|----|----|------|
| ART. | d | H | L | D | F | S |
| 175.202 | C.M.2 | 52 | 68 | 62 | 12 | 40.5 |
| 175.219 | 19.05 | 52 | 50 | 62 | 12 | 40.5 |
| 175.220 | 20 | 52 | 50 | 62 | 12 | 40.5 |
| 175.222 | 22 | 52 | 50 | 62 | 12 | 40.5 |
| 175.225 | 25 | 52 | 50 | 62 | 12 | 40.5 |
| 175.226 | 25.40 | 52 | 50 | 62 | 12 | 40.5 |
| 175.230 | 30 | 52 | 50 | 62 | 12 | 40.5 |
| 175.231 | 31.75 | 52 | 50 | 62 | 12 | 40.5 |
| 175.232 | 32 | 52 | 50 | 62 | 12 | 40.5 |

Su questo brocciatore va montata la broccia art. Z801 descritta a pag. 99-100
Broach code Z801 described in page 99-100 is fitted on this broach toolholder

Su questo brocciatore va montata la broccia art. Z800 descritta a pag. 99-100
Broach code Z800 described in page 99-100 is fitted on this broach toolholder

USO E VANTAGGI NELL'UTILIZZO DI QUESTO ATTREZZO PER BROCCIATURA

- Lunghezza delle brocche

Si possono usare brocche di diversa lunghezza (quota x), consentendo così di eseguire brocciature all'interno di incamerature relativamente profonde.

- Centatura della broccia

Permette, grazie alla registrazione mediante le viti (y) in senso laterale e le viti (w) in senso verticale, di ottenere la centatura del punto (k) rispetto all'asse del codolo (d) più precisa rispetto ai tradizionali brocciatori non registrabili.

- Disassamento torretta

Permette, nei casi in cui l'alloggiamento in macchina del codolo (d) non sia in asse con il mandrino della fantina, di correggere tale disassamento agendo sempre sulle viti di registrazione (y) e (w).

USE AND ADVANTAGES OF USING THIS BROACHING TOOL

- Broaching length

You can use different broaching lengths (parameter X), so that you can even broach inside quite deep chambers.

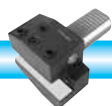
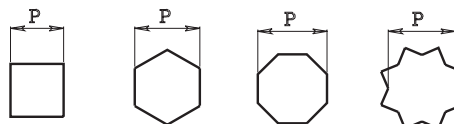
- Broach centring

By adjusting screws (Y) sideways and screws (W) vertically, you can centre point (K) compared to the centre-line of the shaft (d), which is more precise compared to traditional broaching toolholders that are not adjustable.

- Turret offset

If the shaft is not lodged in the machine centred with the chuck of the head stock, you correct this offset, again by adjusting screws (y) and (w).

Esempi di alcune figure di brocche
Broach example



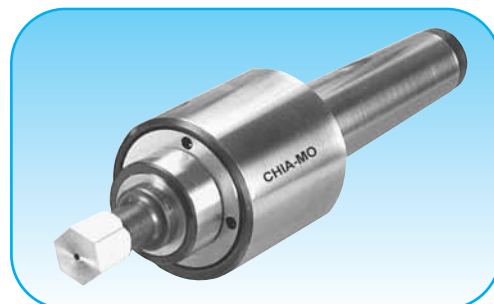
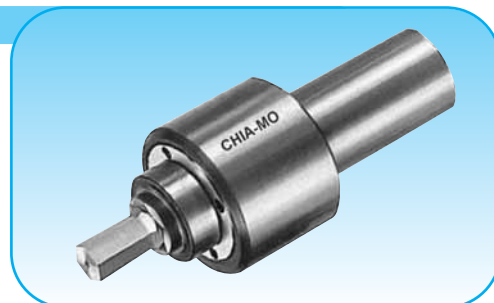


BROCCIATORE FISSO Tipo 175

BROACH TOOLHOLDER

| Code | | | | | | |
|---------|--------|----|----|----|---|----|
| ART. | d | I | L | D | F | H |
| 175.508 | 8 | 34 | 35 | 22 | 5 | 10 |
| 175.510 | 10 | 34 | 35 | 22 | 5 | 10 |
| 175.512 | 12 | 34 | 35 | 22 | 5 | 10 |
| 175.514 | 14 | 34 | 35 | 22 | 5 | 10 |
| 175.515 | 15.875 | 34 | 35 | 22 | 5 | 10 |
| 175.516 | 16 | 34 | 35 | 22 | 5 | 10 |
| 175.519 | 19.05 | 34 | 46 | 22 | 5 | 10 |
| 175.520 | 20 | 34 | 46 | 22 | 5 | 10 |
| 175.522 | 22 | 34 | 46 | 22 | 5 | 10 |

Su questo brocciatore va montata la broccia art. Z803 descritta a pag. 99-100
Broach code Z803 described in page 99-100 is fitted on this broach toolholder

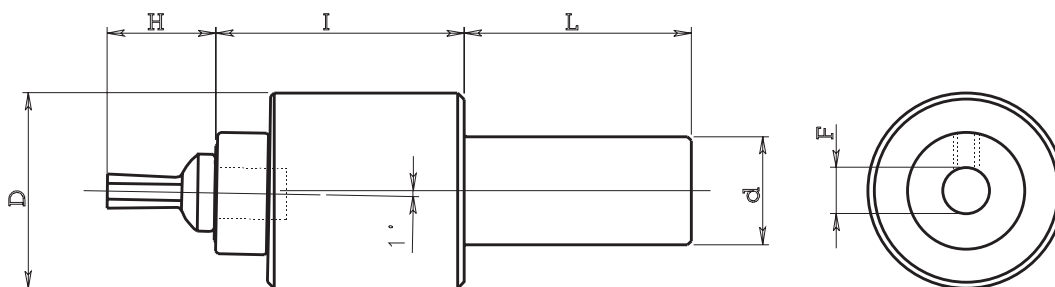


| Code | | | | | | |
|---------|--------|----|----|----|---|----|
| ART. | d | I | L | D | F | H |
| 175.602 | C.M.2 | 38 | 69 | 32 | 8 | 18 |
| 175.610 | 10 | 38 | 35 | 32 | 8 | 18 |
| 175.612 | 12 | 38 | 35 | 32 | 8 | 18 |
| 175.614 | 14 | 38 | 35 | 32 | 8 | 18 |
| 175.615 | 15.875 | 38 | 35 | 32 | 8 | 18 |
| 175.616 | 16 | 38 | 35 | 32 | 8 | 18 |
| 175.619 | 19.05 | 38 | 50 | 32 | 8 | 18 |
| 175.620 | 20 | 38 | 50 | 32 | 8 | 18 |
| 175.622 | 22 | 38 | 50 | 32 | 8 | 18 |
| 175.625 | 25 | 38 | 50 | 32 | 8 | 18 |
| 175.626 | 25,40 | 38 | 50 | 32 | 8 | 18 |

Su questo brocciatore va montata la broccia art. Z801 descritta a pag. 99-100
Broach code Z801 described in page 99-100 is fitted on this broach toolholder

| Code | | | | | | |
|---------|-------|----|----|----|----|----|
| ART. | d | I | L | D | F | H |
| 175.702 | C.M.2 | 46 | 69 | 44 | 12 | 25 |
| 175.716 | 16 | 46 | 50 | 44 | 12 | 25 |
| 175.719 | 19.05 | 46 | 50 | 44 | 12 | 25 |
| 175.720 | 20 | 46 | 50 | 44 | 12 | 25 |
| 175.722 | 22 | 46 | 50 | 44 | 12 | 25 |
| 175.725 | 25 | 46 | 50 | 44 | 12 | 25 |
| 175.726 | 25.40 | 46 | 50 | 44 | 12 | 25 |
| 175.732 | 32 | 46 | 50 | 44 | 12 | 25 |

Su questo brocciatore va montata la broccia art. Z800 descritta a pag. 99-100
Broach code Z800 described in page 99-100 is fitted on this broach toolholder

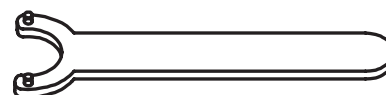


NOTA BENE.
Per questi brocciatori è importante utilizzare brocche con quota "H" come da tabella
In this toolholders is important to use broaches that have "H" like in tablet

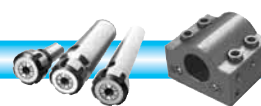
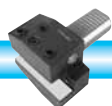
| Code | | | | | | |
|---------|-------|----|-----|----|----|----|
| ART. | d | I | L | D | F | H |
| 175.803 | C.M.3 | 76 | 85 | 58 | 16 | 40 |
| 175.804 | C.M.4 | 76 | 109 | 58 | 16 | 40 |
| 175.820 | 20 | 76 | 50 | 58 | 16 | 40 |
| 175.825 | 25 | 76 | 50 | 58 | 16 | 40 |
| 175.826 | 25.40 | 76 | 50 | 58 | 16 | 40 |
| 175.830 | 30 | 76 | 50 | 58 | 16 | 40 |
| 175.831 | 31.75 | 76 | 50 | 58 | 16 | 40 |
| 175.832 | 32 | 76 | 50 | 58 | 16 | 40 |
| 175.840 | 40 | 76 | 80 | 58 | 16 | 40 |

Su questo brocciatore va montata la broccia art. Z802 descritta a pag. 99-100
Broach code Z802 described in page 99-100 is fitted on this broach toolholder

CHIAVI PER SMONTARE CUSCINETTI
Remove bearing wrenchs



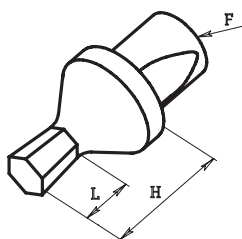
| Code | For Broach toolholder |
|-----------|-----------------------|
| ART. | Per Brocciatore |
| 175.500 H | 175.500 |
| 175.600 H | 175.600 |
| 175.700 H | 175.700 |
| 175.800 H | 175.800 |



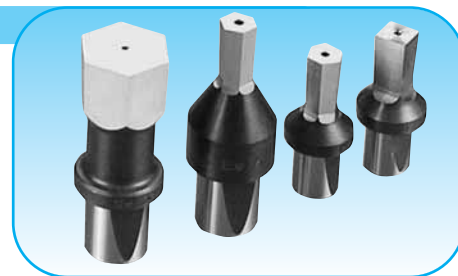


BROCCE Tipo 800 - 801 - 803

BROACH



Le brocche possono essere fornite su richiesta con ricopertura "TiN" Broach "TiN" coated can be supplied on request



Esagono (hexagonal)

BROCCIA Tipo 803

Quadro (square)

| Code | | | | hexag. |
|---------|---|----|-----|---------|
| ART. | F | H | L | esagono |
| 803001 | 5 | 10 | 2 | 1 |
| 8030015 | 5 | 10 | 3 | 1.5 |
| 803002 | 5 | 10 | 3.5 | 2 |
| 8030025 | 5 | 10 | 4 | 2.5 |
| 803003 | 5 | 10 | 5 | 3 |
| 8030035 | 5 | 10 | 6 | 3.5 |
| 803004 | 5 | 10 | 6 | 4 |
| 803005 | 5 | 10 | 6 | 5 |
| 8030055 | 5 | 10 | 6 | 5.5 |
| 803006 | 5 | 10 | 6 | 6 |

| Code | | | | square |
|---------|---|----|-----|--------|
| ART. | F | H | L | quadro |
| 803101 | 5 | 10 | 2 | 1 |
| 8031015 | 5 | 10 | 3 | 1.5 |
| 803102 | 5 | 10 | 3.5 | 2 |
| 8031025 | 5 | 10 | 4 | 2.5 |
| 803103 | 5 | 10 | 5 | 3 |
| 8031035 | 5 | 10 | 6 | 3.5 |
| 803104 | 5 | 10 | 6 | 4 |
| 803105 | 5 | 10 | 6 | 5 |
| 8031055 | 5 | 10 | 6 | 5.5 |
| 803106 | 5 | 10 | 6 | 6 |

Esagono (hexagonal)

BROCCIA Tipo 801

Quadro (square)

| Code | | | | hexag. |
|---------|---|----|------|---------|
| ART. | F | H | L | esagono |
| 801001 | 8 | 18 | 2 | 1 |
| 8010015 | 8 | 18 | 3 | 1.5 |
| 801002 | 8 | 18 | 3.5 | 2 |
| 8010025 | 8 | 18 | 4 | 2.5 |
| 801003 | 8 | 18 | 5 | 3 |
| 8010035 | 8 | 18 | 6 | 3.5 |
| 801004 | 8 | 18 | 6.5 | 4 |
| 801005 | 8 | 18 | 8.5 | 5 |
| 8010055 | 8 | 18 | 9.5 | 5.5 |
| 801006 | 8 | 18 | 10.5 | 6 |
| 801007 | 8 | 18 | 12 | 7 |
| 801008 | 8 | 18 | 12.5 | 8 |

| Code | | | | square |
|---------|---|----|------|--------|
| ART. | F | H | L | quadro |
| 801102 | 8 | 18 | 3.5 | 2 |
| 8011025 | 8 | 18 | 4 | 2.5 |
| 801003 | 8 | 18 | 5 | 3 |
| 8010035 | 8 | 18 | 6 | 3.5 |
| 801104 | 8 | 18 | 6.5 | 4 |
| 801105 | 8 | 18 | 8.5 | 5 |
| 8011055 | 8 | 18 | 9.5 | 5.5 |
| 801106 | 8 | 18 | 10.5 | 6 |
| 801107 | 8 | 18 | 12 | 7 |

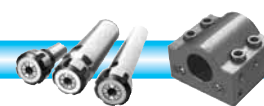
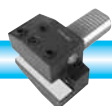
Esagono (hexagonal)

BROCCIA Tipo 800

Quadro (square)

| Code | | | | hexag. |
|---------|----|----|------|---------|
| ART. | F | H | L | esagono |
| 800001 | 12 | 25 | 2 | 1 |
| 8000015 | 12 | 25 | 3 | 1.5 |
| 800002 | 12 | 25 | 3.5 | 2 |
| 8000025 | 12 | 25 | 4 | 2.5 |
| 800003 | 12 | 25 | 5 | 3 |
| 8000035 | 12 | 25 | 6 | 3.5 |
| 800004 | 12 | 25 | 6.5 | 4 |
| 800005 | 12 | 25 | 8.5 | 5 |
| 8000055 | 12 | 25 | 9.5 | 5.5 |
| 800006 | 12 | 25 | 10.5 | 6 |
| 800007 | 12 | 25 | 13 | 7 |
| 800008 | 12 | 25 | 15.5 | 8 |
| 800009 | 12 | 25 | 21 | 9 |
| 800010 | 12 | 25 | 21 | 10 |
| 800011 | 12 | 25 | 21 | 11 |
| 800012 | 12 | 25 | 21 | 12 |
| 800013 | 12 | 25 | 21 | 13 |
| 800014 | 12 | 25 | 21 | 14 |

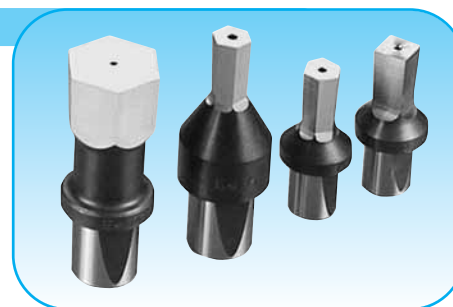
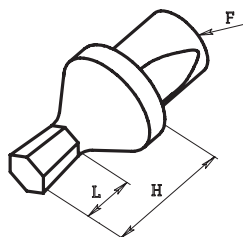
| Code | | | | square |
|---------|----|----|------|--------|
| ART. | F | H | L | quadro |
| 800102 | 12 | 25 | 3.5 | 2 |
| 8001025 | 12 | 25 | 4 | 2.5 |
| 800103 | 12 | 25 | 5 | 3 |
| 8001035 | 12 | 25 | 6 | 3.5 |
| 800104 | 12 | 25 | 6.5 | 4 |
| 800105 | 12 | 25 | 8.5 | 5 |
| 8001055 | 12 | 25 | 9.5 | 5.5 |
| 800106 | 12 | 25 | 10.5 | 6 |
| 800107 | 12 | 25 | 13 | 7 |
| 800108 | 12 | 25 | 15.5 | 8 |
| 800109 | 12 | 25 | 21 | 9 |
| 800110 | 12 | 25 | 21 | 10 |
| 800111 | 12 | 25 | 21 | 11 |
| 800112 | 12 | 25 | 21 | 12 |
| 800113 | 12 | 25 | 21 | 13 |





BROCCE Tipo 802

BROACH



Le brocche possono essere fornite su richiesta con ricopertura "TiN"
Broach "TiN" coated can be supplied on request

Esagono (hexagonal)

BROCCIA Tipo 802

Quadro (square)

| Code | | | | hexag. |
|---------|----|----|------|---------|
| ART. | F | H | L | esagono |
| 802003 | 16 | 40 | 5 | 3 |
| 8020035 | 16 | 40 | 6 | 3.5 |
| 802004 | 16 | 40 | 6.5 | 4 |
| 802005 | 16 | 40 | 8.5 | 5 |
| 802006 | 16 | 40 | 10.5 | 6 |
| 802007 | 16 | 40 | 13 | 7 |
| 802008 | 16 | 40 | 15.5 | 8 |
| 802009 | 16 | 40 | 17.5 | 9 |
| 802010 | 16 | 40 | 18.5 | 10 |
| 802011 | 16 | 40 | 20 | 11 |
| 802012 | 16 | 40 | 20 | 12 |
| 802013 | 16 | 40 | 28 | 13 |
| 802014 | 16 | 40 | 32 | 14 |
| 802015 | 16 | 40 | 32 | 15 |
| 802016 | 16 | 40 | 32 | 16 |
| 802017 | 16 | 40 | 32 | 17 |
| 802018 | 16 | 40 | 32 | 18 |
| 802019 | 16 | 40 | 32 | 19 |
| 802020 | 16 | 40 | 32 | 20 |
| 802021 | 16 | 40 | 32 | 21 |
| 802022 | 16 | 40 | 32 | 22 |
| 802023 | 16 | 40 | 32 | 23 |
| 802024 | 16 | 40 | 32 | 24 |
| 802025 | 16 | 40 | 32 | 25 |

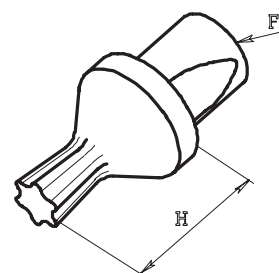
| Code | | | | square |
|--------|----|----|------|--------|
| ART. | F | H | L | quadro |
| 802103 | 16 | 40 | 5 | 3 |
| 802104 | 16 | 40 | 6.5 | 4 |
| 802105 | 16 | 40 | 8.5 | 5 |
| 802106 | 16 | 40 | 10.5 | 6 |
| 802107 | 16 | 40 | 13 | 7 |
| 802108 | 16 | 40 | 15.5 | 8 |
| 802109 | 16 | 40 | 17.5 | 9 |
| 802110 | 16 | 40 | 18.5 | 10 |
| 802111 | 16 | 40 | 20 | 11 |
| 802112 | 16 | 40 | 20 | 12 |
| 802113 | 16 | 40 | 28 | 13 |
| 802114 | 16 | 40 | 32 | 14 |
| 802115 | 16 | 40 | 32 | 15 |
| 802116 | 16 | 40 | 32 | 16 |
| 802117 | 16 | 40 | 32 | 17 |
| 802118 | 16 | 40 | 32 | 18 |
| 802119 | 16 | 40 | 32 | 19 |
| 802120 | 16 | 40 | 32 | 20 |
| 802121 | 16 | 40 | 32 | 21 |
| 802122 | 16 | 40 | 32 | 22 |
| 802123 | 16 | 40 | 32 | 23 |
| 802124 | 16 | 40 | 32 | 24 |
| 802125 | 16 | 40 | 32 | 25 |

BROCCE PER CHIAVI TORX* 801 - 802

BROACH FOR TORX* KEYS

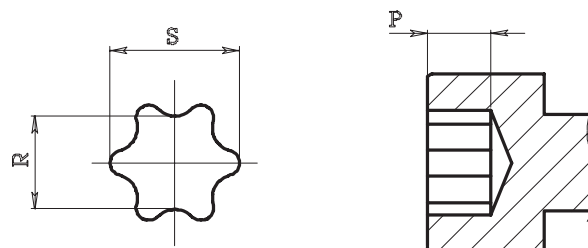
BROCCIA Torx* Tipo 801

| ART. (code) | F | H | P | S | R | torx* |
|-------------|---|----|-----------|------|------|-------|
| 801206 | 8 | 18 | 0,50-0,70 | 1,80 | 1,29 | 6 |
| 801208 | 8 | 18 | 0,70-0,90 | 2,45 | 1,80 | 8 |
| 801210 | 8 | 18 | 1,00-1,30 | 2,85 | 2,07 | 10 |
| 801215 | 8 | 18 | 1,30-1,50 | 3,38 | 2,44 | 15 |
| 801220 | 8 | 18 | 1,50-1,60 | 3,96 | 2,86 | 20 |
| 801225 | 8 | 18 | 1,60-2,00 | 4,55 | 3,28 | 25 |
| 801227 | 8 | 18 | 2,00-2,40 | 5,10 | 3,65 | 27 |
| 801230 | 8 | 18 | 2,60-3,00 | 5,65 | 4,07 | 30 |

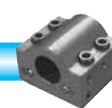
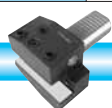


BROCCIA Torx* Tipo 800

| ART. (code) | F | H | P | S | R | torx* |
|-------------|----|----|-----------|------|------|-------|
| 800206 | 12 | 25 | 0,50-0,70 | 1,80 | 1,29 | 6 |
| 800208 | 12 | 25 | 0,70-0,90 | 2,45 | 1,80 | 8 |
| 800210 | 12 | 25 | 1,00-1,30 | 2,85 | 2,07 | 10 |
| 800215 | 12 | 25 | 1,30-1,50 | 3,38 | 2,44 | 15 |
| 800220 | 12 | 25 | 1,50-1,60 | 3,96 | 2,86 | 20 |
| 800225 | 12 | 25 | 1,60-2,00 | 4,55 | 3,28 | 25 |
| 800227 | 12 | 25 | 2,00-2,40 | 5,10 | 3,65 | 27 |
| 800230 | 12 | 25 | 2,60-3,00 | 5,65 | 4,07 | 30 |
| 800240 | 12 | 25 | 3,00-3,30 | 6,80 | 4,88 | 40 |
| 800245 | 12 | 25 | 3,50-4,00 | 7,97 | 5,68 | 45 |
| 800250 | 12 | 25 | 4,00-4,50 | 8,99 | 6,50 | 50 |

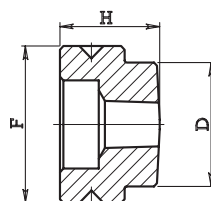
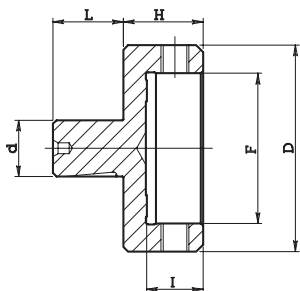
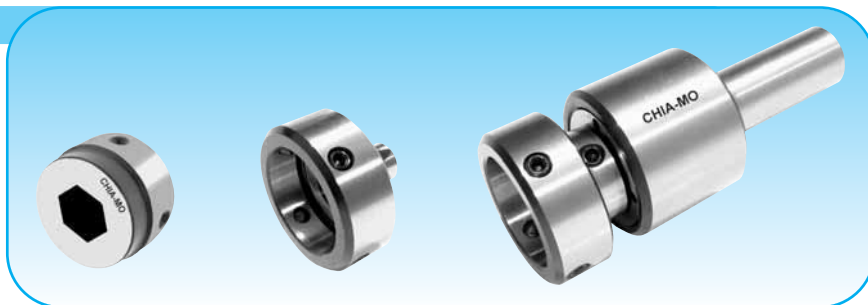


* Torx: marchio registrato dalla Textron inc. Providence (Usa)
* Torx: trade mark registered by Textron inc. Providence (Usa)





BROCCE PER ESTERNI Tipo 806
OUTSIDE BROACH



PORTA BROCCE PER ESTERNI DIAMETRO 12

OUTSIDE BROACH HOLDER D. 12

| ART. | d | L | H | I | F | D |
|--------|----|----|----|----|----|----|
| 175790 | 12 | 15 | 17 | 12 | 32 | 44 |

Questo porta brocche viene montato sui brocciatori articolo:
Use this broach holder on code:

175200 (p. 97), 175700 (p. 98), 9R2.20.12 (p. 62),
9R2.30.12 (p. 62) e 9R2.40.12 (p. 62)

PORTA BROCCE PER ESTERNI DIAMETRO 16

OUTSIDE BROACH HOLDER D. 16

| ART. | d | L | H | I | F | D |
|--------|----|----|----|----|----|----|
| 175890 | 16 | 19 | 32 | 12 | 32 | 44 |

Questo porta brocche viene montato sui brocciatori articolo:
Use this broach holder on code:

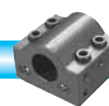
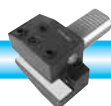
175800 (p. 98), 9R2.30.16 (p. 62) e 9R2.40.16 (p. 62)

BROCCE PER ESTERNI Tipo 806

OUTSIDE BROACH

| Code | | | | hexagonal |
|----------|----|------|------|-----------|
| ART. | F | D | H | esagono |
| Z 806003 | 32 | 25,3 | 20,5 | 3 |
| Z 806004 | 32 | 25,3 | 20,5 | 4 |
| Z 806005 | 32 | 25,3 | 20,5 | 5 |
| Z 806006 | 32 | 25,3 | 20,5 | 6 |
| Z 806007 | 32 | 25,3 | 20,5 | 7 |
| Z 806008 | 32 | 25,3 | 20,5 | 8 |
| Z 806009 | 32 | 25,3 | 20,5 | 9 |
| Z 806010 | 32 | 25,3 | 20,5 | 10 |
| Z 806011 | 32 | 25,3 | 20,5 | 11 |
| Z 806012 | 32 | 25,3 | 20,5 | 12 |
| Z 806013 | 32 | 25,3 | 20,5 | 13 |
| Z 806014 | 32 | 25,3 | 20,5 | 14 |
| Z 806015 | 32 | 25,3 | 20,5 | 15 |
| Z 806016 | 32 | 30 | 20,5 | 16 |
| Z 806017 | 32 | 30 | 20,5 | 17 |
| Z 806018 | 32 | 30 | 20,5 | 18 |
| Z 806019 | 32 | 30 | 20,5 | 19 |
| Z 806020 | 32 | 30 | 20,5 | 20 |

| Code | | | | square |
|----------|----|------|------|--------|
| ART. | F | D | H | quadro |
| Z 806103 | 32 | 25,3 | 20,5 | 3 |
| Z 806104 | 32 | 25,3 | 20,5 | 4 |
| Z 806105 | 32 | 25,3 | 20,5 | 5 |
| Z 806106 | 32 | 25,3 | 20,5 | 6 |
| Z 806107 | 32 | 25,3 | 20,5 | 7 |
| Z 806108 | 32 | 25,3 | 20,5 | 8 |
| Z 806109 | 32 | 25,3 | 20,5 | 9 |
| Z 806110 | 32 | 25,3 | 20,5 | 10 |
| Z 806111 | 32 | 25,3 | 20,5 | 11 |
| Z 806112 | 32 | 25,3 | 20,5 | 12 |
| Z 806113 | 32 | 25,3 | 20,5 | 13 |
| Z 806114 | 32 | 30 | 20,5 | 14 |
| Z 806115 | 32 | 30 | 20,5 | 15 |
| Z 806116 | 32 | 30 | 20,5 | 16 |

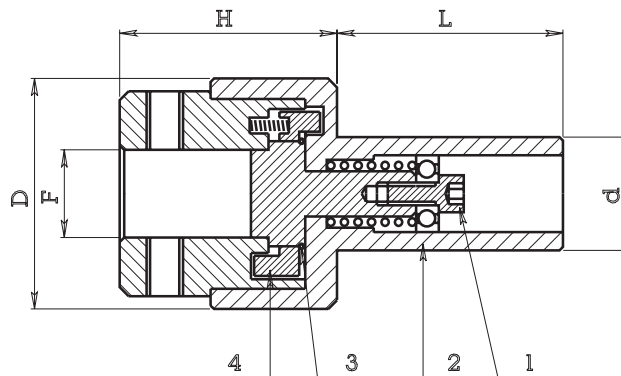




PORTA MASCHI A SGANCIAMENTO Tipo 180

RELEASING TAP HOLDERS

| Code | | | | | | |
|---------|-------|----|----|----|----|---|
| ART. | d | L | H | D | F | C |
| 180.219 | 19.05 | 50 | 44 | 51 | 18 | 4 |
| 180.220 | 20 | 50 | 44 | 51 | 18 | 4 |
| 180.222 | 22 | 50 | 44 | 51 | 18 | 4 |
| 180.225 | 25 | 50 | 44 | 51 | 18 | 4 |
| 180.226 | 25.40 | 50 | 44 | 51 | 18 | 4 |
| 180.230 | 30 | 50 | 44 | 51 | 18 | 4 |
| 180.231 | 31.75 | 50 | 44 | 51 | 18 | 4 |
| 180.232 | 32 | 50 | 44 | 51 | 18 | 4 |
| | | | | | | |
| 180.322 | 22 | 50 | 54 | 51 | 25 | 4 |
| 180.325 | 25 | 50 | 54 | 51 | 25 | 4 |
| 180.326 | 25.40 | 50 | 54 | 51 | 25 | 4 |
| 180.330 | 30 | 50 | 54 | 51 | 25 | 4 |
| 180.331 | 31.75 | 50 | 54 | 51 | 25 | 4 |
| 180.332 | 32 | 50 | 54 | 51 | 25 | 4 |

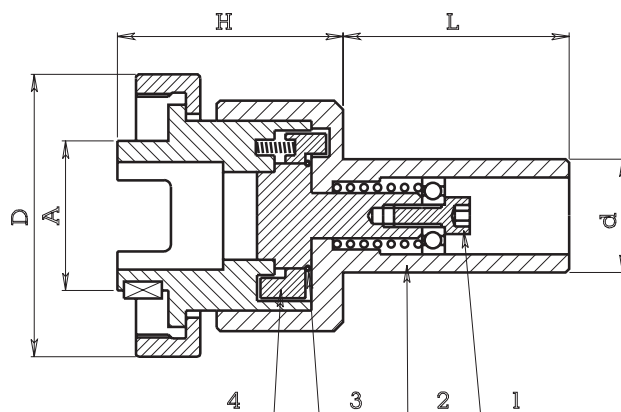


C = Corsa di compensazione assiale (solo a trazione) prima di arrivare al punto di sganciamento
C = Length compensation's stroke (only expansion) before to arrive at releasing's point

PORTA FILIERA A SGANCIAMENTO Tipo 200

RELEASING DIE HOLDERS

| Code | | | | | | | Die holder bush code |
|---------|-------|----|----|----|----|---|----------------------|
| ART. | d | L | H | D | A | C | art. cappello |
| 200.219 | 19.05 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.220 | 20 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.222 | 22 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.225 | 25 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.226 | 25.40 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.230 | 30 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.231 | 31.75 | 50 | 46 | 57 | 32 | 4 | 220.... |
| 200.232 | 32 | 50 | 46 | 57 | 32 | 4 | 220.... |
| | | | | | | | |
| 200.322 | 22 | 50 | 51 | 71 | 45 | 4 | 230.... |
| 200.325 | 25 | 50 | 51 | 71 | 45 | 4 | 230.... |
| 200.326 | 25.40 | 50 | 51 | 71 | 45 | 4 | 230.... |
| 200.330 | 30 | 50 | 51 | 71 | 45 | 4 | 230.... |
| 200.331 | 31.75 | 50 | 51 | 71 | 45 | 4 | 230.... |
| 200.332 | 32 | 50 | 51 | 71 | 45 | 4 | 230.... |



C = Corsa di compensazione assiale (solo a trazione) prima di arrivare al punto di sganciamento
C = Length compensation's stroke (only expansion) before to arrive at releasing's point

P. MASCHI e P. FILIERE SONO ADATTI SIA PER FILETTI DESTRI CHE SINISTRI

Per predisporli in senso destro e/o sinistro occorre procedere come segue:

- A - Svitare la vite di 5MA n. 1 (in questo modo si libera il corpo n. 2)
- B - Togliere la molla n. 3
- C - Capovolgere il settore n. 4
- D - Rimontare il tutto

TAP and DIE HOLDER ARE SUITABLE FOR BOTH RIGHT and LEFT TRHEADS

Proceed as follow to arrange them to the right or left side:

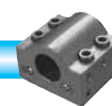
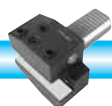
- A - Unscrew the 5 MA schew n.1 (by doing so you release casing n.2)
- B - Remove the spring n.3
- C - Tip-over sector n.4
- D - Re-assemble everything

NOTA BENE:

I porta maschi ed i porta filiere, salvo controindicazioni all'atto dell'ordine, vengono forniti predisposti per filetti destri

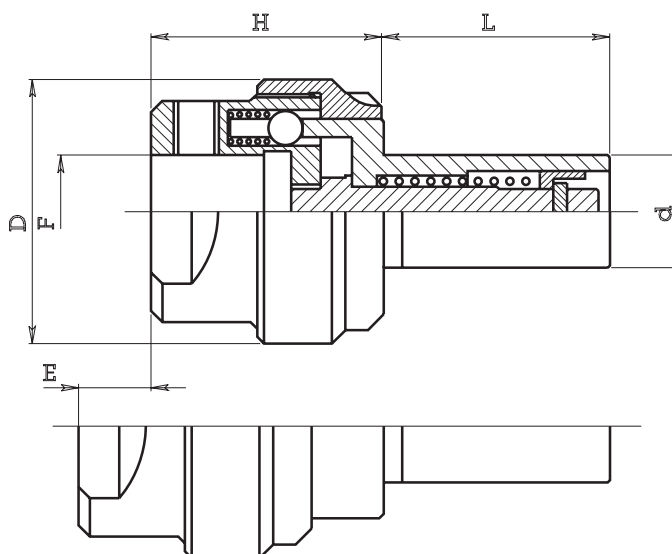
ATTENTION:

The screw holders and the die holders are supplied standard for right-hand threads, unless stated otherwise in the original order





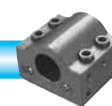
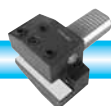
PORTA MASCHI AD ESTRAZIONE Tipo 190
FLOATING TAP HOLDERS WITH EXTENSION



E = Corsa di estrazione
E = Extension stroke

| Code | | | | | | |
|----------|--------|----|----|----|----|----|
| ART. | d | L | H | D | E | F |
| 190.115 | 15.875 | 32 | 29 | 29 | 8 | 10 |
| 190.116 | 16 | 32 | 29 | 29 | 8 | 10 |
| 190.119 | 19.05 | 32 | 29 | 29 | 8 | 10 |
| 190.120 | 20 | 32 | 29 | 29 | 8 | 10 |
| | | | | | | |
| 190.219 | 19.05 | 46 | 40 | 44 | 12 | 12 |
| 190.219B | 19.05 | 46 | 40 | 44 | 12 | 11 |
| 190.220 | 20 | 46 | 40 | 44 | 12 | 12 |
| 190.222 | 22 | 46 | 40 | 44 | 12 | 12 |
| 190.225 | 25 | 46 | 40 | 44 | 12 | 12 |
| 190.226 | 25.40 | 46 | 40 | 44 | 12 | 12 |
| | | | | | | |
| 190.325 | 25 | 50 | 52 | 58 | 16 | 18 |
| 190.325L | 25 | 80 | 52 | 58 | 16 | 18 |
| 190.326 | 25.40 | 50 | 52 | 58 | 16 | 18 |
| 190.326L | 25.40 | 80 | 52 | 58 | 16 | 18 |
| 190.330 | 30 | 50 | 52 | 58 | 16 | 18 |
| 190.331 | 31.75 | 50 | 52 | 58 | 16 | 18 |
| 190.332 | 32 | 50 | 52 | 58 | 16 | 18 |
| 190.340 | 40 | 85 | 52 | 58 | 16 | 18 |

| Code | | | | | | |
|----------|-------|----|----|----|----|----|
| ART. | d | L | H | D | E | F |
| 190.425 | 25 | 50 | 52 | 58 | 16 | 21 |
| 190.426 | 25.40 | 50 | 52 | 58 | 16 | 21 |
| 190.430 | 30 | 50 | 52 | 58 | 16 | 21 |
| 190.431 | 31.75 | 50 | 52 | 58 | 16 | 21 |
| 190.432 | 32 | 50 | 52 | 58 | 16 | 21 |
| 190.440 | 40 | 85 | 52 | 58 | 16 | 21 |
| | | | | | | |
| 190.525 | 25 | 50 | 52 | 58 | 16 | 25 |
| 190.525L | 25 | 80 | 52 | 58 | 16 | 25 |
| 190.526 | 25.40 | 50 | 52 | 58 | 16 | 25 |
| 190.526L | 25.40 | 80 | 52 | 58 | 16 | 25 |
| 190.530 | 30 | 50 | 52 | 58 | 16 | 25 |
| 190.531 | 31.75 | 50 | 52 | 58 | 16 | 25 |
| 190.532 | 32 | 50 | 52 | 58 | 16 | 25 |
| 190.540 | 40 | 85 | 52 | 58 | 16 | 25 |



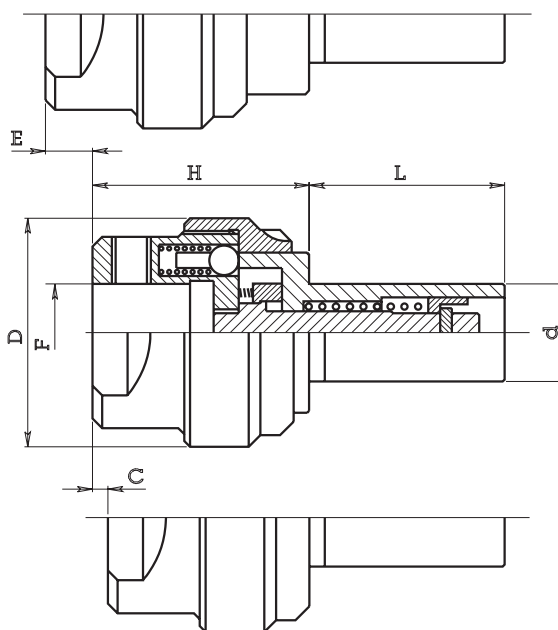


PORTA MASCHI AD ESTRAZIONE E COMPRESIONE Tipo 190 A

FLOATING TAP HOLDERS WITH EXTENSION AND COMPRESSION



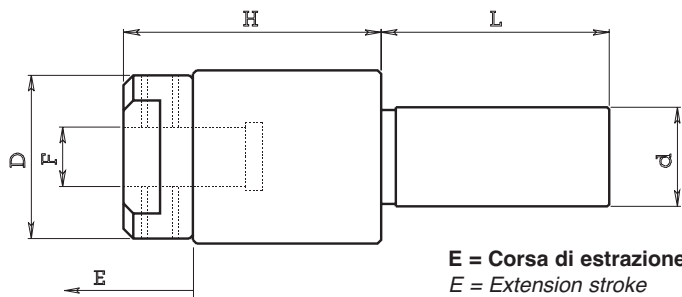
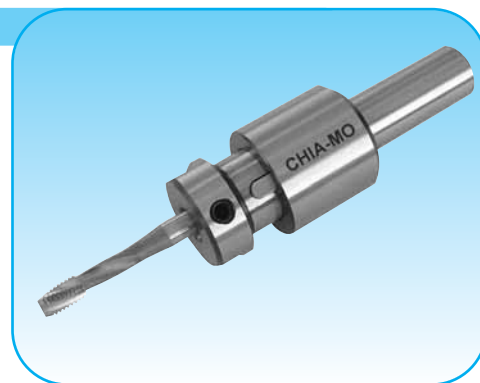
| Code | | | | | | | |
|-----------|--------|----|----|----|-----|------|----|
| ART. | d | L | H | D | E | C | F |
| 190.115A | 15.875 | 32 | 29 | 29 | 5.5 | -2.5 | 10 |
| 190.116A | 16 | 32 | 29 | 29 | 5.5 | -2.5 | 10 |
| 190.119A | 19.05 | 32 | 29 | 29 | 5.5 | -2.5 | 10 |
| 190.120A | 20 | 32 | 29 | 29 | 5.5 | -2.5 | 10 |
| 190.219A | 19.05 | 46 | 43 | 44 | 9 | -3 | 12 |
| 190.220A | 20 | 46 | 43 | 44 | 9 | -3 | 12 |
| 190.222A | 22 | 46 | 43 | 44 | 9 | -3 | 12 |
| 190.225A | 25 | 46 | 43 | 44 | 9 | -3 | 12 |
| 190.226A | 25.40 | 46 | 43 | 44 | 9 | -3 | 12 |
| 190.325A | 25 | 50 | 56 | 58 | 12 | -4 | 18 |
| 190.325AL | 25 | 80 | 56 | 58 | 12 | -4 | 18 |
| 190.326A | 25.40 | 50 | 56 | 58 | 12 | -4 | 18 |
| 190.326AL | 25.40 | 80 | 56 | 58 | 12 | -4 | 18 |
| 190.330A | 30 | 50 | 56 | 58 | 12 | -4 | 18 |
| 190.331A | 31.75 | 50 | 56 | 58 | 12 | -4 | 18 |
| 190.332A | 32 | 50 | 56 | 58 | 12 | -4 | 18 |
| 190.340A | 40 | 85 | 56 | 58 | 12 | -4 | 18 |
| 190.425A | 25 | 50 | 56 | 58 | 12 | -4 | 21 |
| 190.426A | 25.40 | 50 | 56 | 58 | 12 | -4 | 21 |
| 190.430A | 30 | 50 | 56 | 58 | 12 | -4 | 21 |
| 190.431A | 31.75 | 50 | 56 | 58 | 12 | -4 | 21 |
| 190.432A | 32 | 50 | 56 | 58 | 12 | -4 | 21 |
| 190.440A | 40 | 85 | 56 | 58 | 12 | -4 | 21 |
| 190.525A | 25 | 50 | 56 | 58 | 12 | -4 | 25 |
| 190.525AL | 25 | 80 | 56 | 58 | 12 | -4 | 25 |
| 190.526A | 25.40 | 50 | 56 | 58 | 12 | -4 | 25 |
| 190.526AL | 25.40 | 80 | 56 | 58 | 12 | -4 | 25 |
| 190.530A | 30 | 50 | 56 | 58 | 12 | -4 | 25 |
| 190.531A | 31.75 | 50 | 56 | 58 | 12 | -4 | 25 |
| 190.532A | 32 | 50 | 56 | 58 | 12 | -4 | 25 |
| 190.540A | 40 | 85 | 56 | 58 | 12 | -4 | 25 |



E = Corsa di estrazione (Extension stroke)
C = Corsa di compressione (Compression stroke)

PORTA MASCHI AD ESTRAZIONE CON CORSA MAGGIORATA Tipo 191

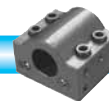
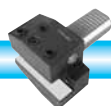
FLOATING TAP HOLDERS WITH EXTENSION AND COMPRESSION



E = Corsa di estrazione
E = Extension stroke

| Code | | | | | | |
|---------|-------|----|----|----|----|----|
| ART. | d | H | L | D | F | E |
| 191.216 | 16 | 48 | 46 | 35 | 12 | 22 |
| 191.219 | 19.05 | 48 | 46 | 35 | 12 | 22 |
| 191.220 | 20 | 48 | 46 | 35 | 12 | 22 |
| 191.222 | 22 | 48 | 46 | 35 | 12 | 22 |

| Code | | | | | | |
|----------|-------|----|----|----|----|----|
| ART. | d | H | L | D | F | E |
| 191.216L | 16 | 56 | 46 | 35 | 12 | 30 |
| 191.326 | 25.40 | 60 | 80 | 45 | 18 | 30 |

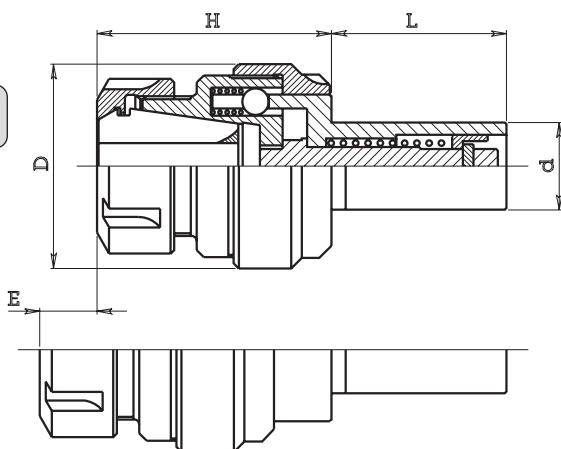




PORTA MASCHI AD ESTRAZIONE CON PINZA ERC Tipo 192

FLOATING TAP HOLDERS WITH EXTENSION - WITH ERC COLLET

Pinze DIN 6499/B
Collets DIN 6499/B



E = Corsa di estrazione
H = Quota con pinza inserita
E = Extension stroke
H = Measure with collet

| Code | | | | | | Collet code |
|----------|--------|----|----|----|------------|-------------|
| ART. | d | L | H | D | art. pinza | E |
| 192.715 | 15.875 | 32 | 36 | 29 | 050.011 | 8 |
| 192.716 | 16 | 32 | 36 | 29 | 050.011 | 8 |
| 192.719 | 19.05 | 32 | 36 | 29 | 050.011 | 8 |
| 192.720 | 20 | 32 | 36 | 29 | 050.011 | 8 |
| | | | | | | |
| 192.015 | 15.875 | 32 | 48 | 29 | 050.016 | 8 |
| 192.016 | 16 | 32 | 48 | 29 | 050.016 | 8 |
| 192.019 | 19.05 | 32 | 48 | 29 | 050.016 | 8 |
| 192.020 | 20 | 32 | 48 | 29 | 050.016 | 8 |
| | | | | | | |
| 192.219 | 19.05 | 46 | 56 | 44 | 050.020 | 12 |
| 192.220 | 20 | 46 | 56 | 44 | 050.020 | 12 |
| 192.222 | 22 | 46 | 56 | 44 | 050.020 | 12 |
| 192.225 | 25 | 46 | 56 | 44 | 050.020 | 12 |
| 192.226 | 25.40 | 46 | 56 | 44 | 050.020 | 12 |
| | | | | | | |
| 192.419 | 19.05 | 46 | 70 | 44 | 050.025 | 12 |
| 192.420 | 20 | 46 | 70 | 44 | 050.025 | 12 |
| 192.422 | 22 | 46 | 70 | 44 | 050.025 | 12 |
| | | | | | | |
| 192.325 | 25 | 50 | 64 | 58 | 050.025 | 16 |
| 192.325L | 25 | 80 | 64 | 58 | 050.025 | 16 |
| 192.326 | 25.40 | 50 | 64 | 58 | 050.025 | 16 |
| 192.326L | 25.40 | 80 | 64 | 58 | 050.025 | 16 |
| 192.330 | 30 | 50 | 64 | 58 | 050.025 | 16 |
| 192.331 | 31.75 | 50 | 64 | 58 | 050.025 | 16 |
| 192.332 | 32 | 50 | 64 | 58 | 050.025 | 16 |
| 192.340 | 40 | 85 | 64 | 58 | 050.025 | 16 |
| | | | | | | |
| 192.525 | 25 | 50 | 66 | 58 | 050.032 | 16 |
| 192.525L | 25 | 80 | 66 | 58 | 050.032 | 16 |
| 192.526 | 25.40 | 50 | 66 | 58 | 050.032 | 16 |
| 192.526L | 25.40 | 80 | 66 | 58 | 050.032 | 16 |
| 192.530 | 30 | 50 | 66 | 58 | 050.032 | 16 |
| 192.531 | 31.75 | 50 | 66 | 58 | 050.032 | 16 |
| 192.532 | 32 | 50 | 64 | 58 | 050.032 | 16 |
| 192.540 | 40 | 85 | 64 | 58 | 050.032 | 16 |

ERC 11

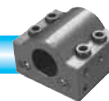
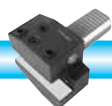
ERC 16

ERC 20

ERC 25

ERC 25

ERC 32





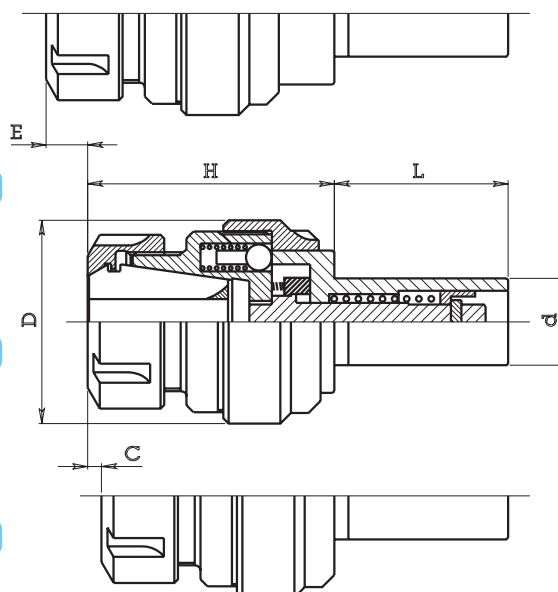
PORTA MASCHI AD ESTRAZIONE E COMPRESSIONE

FLOATING TAP HOLDERS WITH EXTENSION AND COMPRESSION - WITH ERC COLLET

Pinze DIN 6499/B
Collets DIN 6499/B



| Code | | | | | Collet code | | |
|-----------|--------|----|----|----|-------------|-----|------|
| ART. | d | L | H | D | art. pinza | E | C |
| 192.715A | 15.875 | 32 | 36 | 29 | 050.011 | 5.5 | -2.5 |
| 192.716A | 16 | 32 | 36 | 29 | 050.011 | 5.5 | -2.5 |
| 192.719A | 19.05 | 32 | 36 | 29 | 050.011 | 5.5 | -2.5 |
| 192.720A | 20 | 32 | 36 | 29 | 050.011 | 5.5 | -2.5 |
| 192.015A | 15.875 | 32 | 48 | 29 | 050.016 | 5.5 | -2.5 |
| 192.016A | 16 | 32 | 48 | 29 | 050.016 | 5.5 | -2.5 |
| 192.019A | 19.05 | 32 | 48 | 29 | 050.016 | 5.5 | -2.5 |
| 192.020A | 20 | 32 | 48 | 29 | 050.016 | 5.5 | -2.5 |
| 192.219A | 19.05 | 46 | 59 | 44 | 050.020 | 9 | -3 |
| 192.220A | 20 | 46 | 59 | 44 | 050.020 | 9 | -3 |
| 192.222A | 22 | 46 | 59 | 44 | 050.020 | 9 | -3 |
| 192.225A | 25 | 46 | 59 | 44 | 050.020 | 9 | -3 |
| 192.226A | 25.40 | 46 | 59 | 44 | 050.020 | 9 | -3 |
| 192.419A | 19.05 | 46 | 73 | 44 | 050.025 | 9 | -3 |
| 192.420A | 20 | 46 | 73 | 44 | 050.025 | 9 | -3 |
| 192.422A | 22 | 46 | 73 | 44 | 050.025 | 9 | -3 |
| 192.325A | 25 | 50 | 68 | 58 | 050.025 | 12 | -4 |
| 192.325AL | 25 | 80 | 68 | 58 | 050.025 | 12 | -4 |
| 192.326A | 25.40 | 50 | 68 | 58 | 050.025 | 12 | -4 |
| 192.326AL | 25.40 | 80 | 68 | 58 | 050.025 | 12 | -4 |
| 192.330A | 30 | 50 | 68 | 58 | 050.025 | 12 | -4 |
| 192.331A | 31.75 | 50 | 68 | 58 | 050.025 | 12 | -4 |
| 192.332A | 32 | 50 | 68 | 58 | 050.025 | 12 | -4 |
| 192.340A | 40 | 85 | 68 | 58 | 050.025 | 12 | -4 |
| 192.525A | 25 | 50 | 70 | 58 | 050.032 | 12 | -4 |
| 192.525AL | 25 | 80 | 70 | 58 | 050.032 | 12 | -4 |
| 192.526A | 25.40 | 50 | 70 | 58 | 050.032 | 12 | -4 |
| 192.526AL | 25.40 | 80 | 70 | 58 | 050.032 | 12 | -4 |
| 192.530A | 30 | 50 | 70 | 58 | 050.032 | 12 | -4 |
| 192.531A | 31.75 | 50 | 70 | 58 | 050.032 | 12 | -4 |
| 192.532A | 32 | 50 | 70 | 58 | 050.032 | 12 | -4 |
| 192.540A | 40 | 85 | 70 | 58 | 050.032 | 12 | -4 |



ERC 11

ERC 16

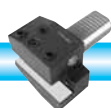
ERC 20

ERC 25

ERC 25

ERC 32

E = Corsa di estrazione
C = Corsa di compressione
H = Quota con pinza già inserita
E = Extension stroke
C = Compression stroke
H = Measure with collet





PORTA MASCHI AD ESTRAZIONE CON PINZA ERC Tipo 194

FLOATING TAP HOLDERS WITH EXTENSION - WITH ERC COLLET



| Code | | | | | Collet code | | |
|-------------|--------|----|----|----|-------------|----|--|
| ART. | d | L | H | D | art. pinza | E | |
| 194.715 040 | 15.875 | 40 | 21 | 16 | 050.011 | 10 | |
| 194.716 040 | 16 | 40 | 21 | 16 | 050.011 | 10 | |
| 194.719 040 | 19.05 | 40 | 21 | 16 | 050.011 | 10 | |
| 194.720 040 | 20 | 40 | 21 | 16 | 050.011 | 10 | |
| 194.722 040 | 22 | 40 | 21 | 16 | 050.011 | 10 | |
| 194.725 040 | 25 | 40 | 21 | 16 | 050.011 | 10 | |
| 194.726 040 | 25.40 | 40 | 21 | 16 | 050.011 | 10 | |

ERC 11

| ART. | d | L | H | D | art. pinza | E |
|-------------|--------|----|----|----|------------|----|
| 194.015 040 | 15.875 | 40 | 36 | 22 | 050.016 | 10 |
| 194.016 040 | 16 | 40 | 36 | 22 | 050.016 | 10 |

ERC 16

Pinze DIN 6499/B
Collets DIN 6499/B

| ART. | d | L | H | D | art. pinza | E |
|-------------|-------|-----|----|----|------------|----|
| 194.019 050 | 19.05 | 50 | 30 | 22 | 050.016 | 14 |
| 194.019 070 | 19.05 | 70 | 30 | 22 | 050.016 | 14 |
| 194.019 120 | 19.05 | 120 | 30 | 22 | 050.016 | 14 |

ERC 16

| | | | | | | |
|-------------|----|-----|----|----|---------|----|
| 194.020 050 | 20 | 50 | 30 | 22 | 050.016 | 14 |
| 194.020 070 | 20 | 70 | 30 | 22 | 050.016 | 14 |
| 194.020 120 | 20 | 120 | 30 | 22 | 050.016 | 14 |

| | | | | | | |
|-------------|----|-----|----|----|---------|----|
| 194.022 050 | 22 | 50 | 30 | 22 | 050.016 | 14 |
| 194.022 080 | 22 | 80 | 30 | 22 | 050.016 | 14 |
| 194.022 120 | 22 | 120 | 30 | 22 | 050.016 | 14 |

| | | | | | | |
|-------------|----|-----|----|----|---------|----|
| 194.025 050 | 25 | 50 | 30 | 22 | 050.016 | 14 |
| 194.025 070 | 25 | 70 | 30 | 22 | 050.016 | 14 |
| 194.025 120 | 25 | 120 | 30 | 22 | 050.016 | 14 |

| | | | | | | |
|-------------|-------|-----|----|----|---------|----|
| 194.026 050 | 25.40 | 50 | 30 | 22 | 050.016 | 14 |
| 194.026 070 | 25.40 | 70 | 30 | 22 | 050.016 | 14 |
| 194.026 120 | 25.40 | 120 | 30 | 22 | 050.016 | 14 |

| ART. | d | L | H | D | art. pinza | E |
|-------------|-------|-----|----|----|------------|----|
| 194.119 050 | 19.05 | 50 | 40 | 28 | 050.020 | 14 |
| 194.119 070 | 19.05 | 70 | 40 | 28 | 050.020 | 14 |
| 194.119 120 | 19.05 | 120 | 40 | 28 | 050.020 | 14 |

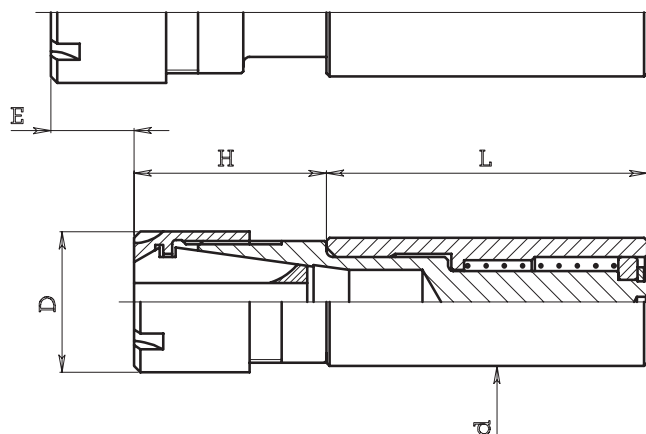
ERC 20

| | | | | | | |
|-------------|----|-----|----|----|---------|----|
| 194.120 050 | 20 | 50 | 40 | 28 | 050.020 | 14 |
| 194.120 070 | 20 | 70 | 40 | 28 | 050.020 | 14 |
| 194.120 120 | 20 | 120 | 40 | 28 | 050.020 | 14 |

| | | | | | | |
|-------------|----|-----|----|----|---------|----|
| 194.122 050 | 22 | 50 | 40 | 28 | 050.020 | 14 |
| 194.122 080 | 22 | 80 | 40 | 28 | 050.020 | 14 |
| 194.122 120 | 22 | 120 | 40 | 28 | 050.020 | 14 |

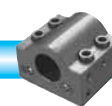
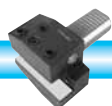
| | | | | | | |
|-------------|----|-----|----|----|---------|----|
| 194.125 050 | 25 | 50 | 40 | 28 | 050.020 | 14 |
| 194.125 070 | 25 | 70 | 40 | 28 | 050.020 | 14 |
| 194.125 120 | 25 | 120 | 40 | 28 | 050.020 | 14 |

| | | | | | | |
|-------------|-------|-----|----|----|---------|----|
| 194.126 050 | 25.40 | 50 | 40 | 28 | 050.020 | 14 |
| 194.126 070 | 25.40 | 70 | 40 | 28 | 050.020 | 14 |
| 194.126 120 | 25.40 | 120 | 40 | 28 | 050.020 | 14 |



ERC 25

| Code | | | | | Collet code | | |
|-------------|-------|-----|----|----|-------------|----|--|
| ART. | d | L | H | D | art. pinza | E | |
| 194.219 050 | 19.05 | 50 | 42 | 35 | 050.025 | 14 | |
| 194.219 070 | 19.05 | 70 | 42 | 35 | 050.025 | 14 | |
| 194.219 120 | 19.05 | 120 | 42 | 35 | 050.025 | 14 | |
| 194.220 050 | 20 | 50 | 42 | 35 | 050.025 | 14 | |
| 194.220 070 | 20 | 70 | 42 | 35 | 050.025 | 14 | |
| 194.220 120 | 20 | 120 | 42 | 35 | 050.025 | 14 | |
| 194.222 050 | 22 | 50 | 42 | 35 | 050.025 | 14 | |
| 194.222 080 | 22 | 80 | 42 | 35 | 050.025 | 14 | |
| 194.222 120 | 22 | 120 | 42 | 35 | 050.025 | 14 | |
| 194.225 050 | 25 | 50 | 42 | 35 | 050.025 | 14 | |
| 194.225 070 | 25 | 70 | 42 | 35 | 050.025 | 14 | |
| 194.225 120 | 25 | 120 | 42 | 35 | 050.025 | 14 | |
| 194.226 050 | 25.40 | 50 | 42 | 35 | 050.025 | 14 | |
| 194.226 070 | 25.40 | 70 | 42 | 35 | 050.025 | 14 | |
| 194.226 120 | 25.40 | 120 | 42 | 35 | 050.025 | 14 | |





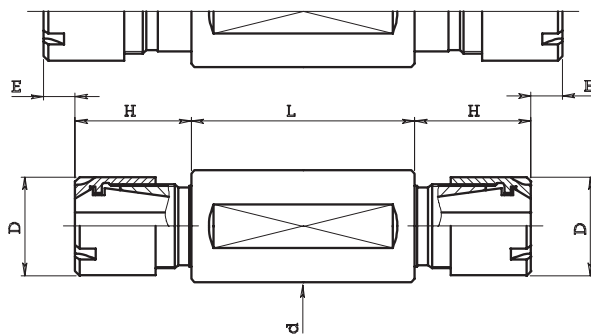
PORTA MASCHIO DOPPIO AD ESTRAZIONE - GHIERA MINI

DOUBLE - SEATED FLOATING TAP HOLDER WITH EXTENSION

Pinze DIN 6499/B
Collets DIN 6499/B

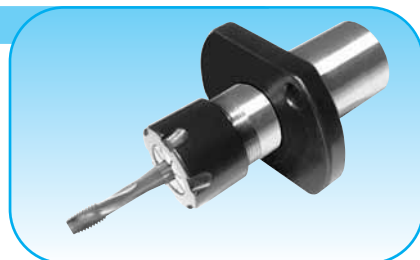


| Code | | | | | | Collet code | | |
|-------------|-------|----|------|----|----------|-------------|---|--|
| ART. | d | L | H | D | X | Art. pinza | E | |
| 195.719 050 | 19.05 | 50 | 16.5 | 16 | 0.5 - 7 | ERC 11 | 8 | |
| 195.719 060 | 19.05 | 60 | 16.5 | 16 | 0.5 - 7 | ERC 11 | 8 | |
| 195.720 050 | 20 | 50 | 16.5 | 16 | 0.5 - 7 | ERC 11 | 8 | |
| 195.720 060 | 20 | 60 | 16.5 | 16 | 0.5 - 7 | ERC 11 | 8 | |
| 195.722 050 | 22 | 50 | 16.5 | 16 | 0.5 - 7 | ERC 11 | 8 | |
| 195.722 060 | 22 | 60 | 16.5 | 16 | 0.5 - 7 | ERC 11 | 8 | |
| | | | | | | | | |
| 195.022 050 | 22 | 50 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |
| 195.022 060 | 22 | 60 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |
| 195.022 095 | 22 | 95 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |
| 195.025 050 | 25 | 50 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |
| 195.025 060 | 25 | 60 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |
| 195.026 050 | 25.40 | 50 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |
| 195.026 060 | 25.40 | 60 | 26 | 22 | 0.5 - 10 | ERC 16 | 8 | |

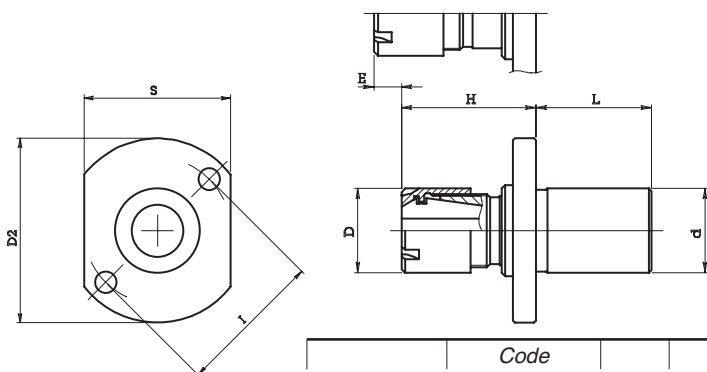


MANDRINO PORTA MASCHIO AD ESTRAZIONE

TAP HOLDER SPINDLE WITH MINI CLAMPING NUT



Pinze DIN 6499/B
Collets DIN 6499/B



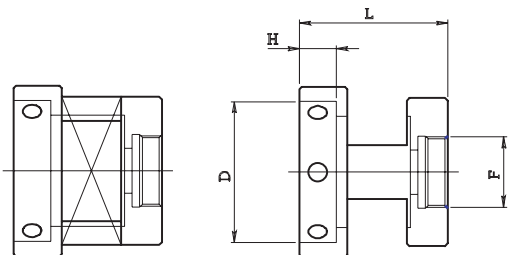
| Code | | | | | | | | | | Collet code | | |
|------------|--------------|----|----|----|----|----------|----|----|----|-------------|---|--|
| STAR SR 20 | ART. | d | L | H | D | X | D2 | S | I | Art. pinza | E | |
| STAR SR 20 | 196.022 030 | 22 | 30 | 36 | 22 | 0.5 - 10 | 48 | 38 | 38 | ERC 16 | 8 | |
| STAR SR 32 | 196.022 030B | 22 | 30 | 36 | 22 | 0.5 - 10 | 60 | 38 | 50 | ERC 16 | 8 | |

PORTA FILIERA PER TORNI A FANTINA MOBILE

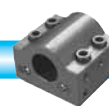
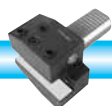
DIE HOLDER FOR AUTOMATIC SLIDING HEADSTOCK LATHES



Può essere montato sul porta maschi: 194.000 - 195.000
Can be used on tap holder: 194.000 - 195.000



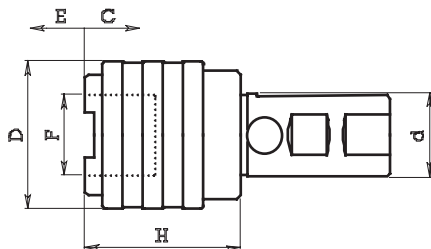
| Code | | | | Thread |
|--------------|----|----|----|--------|
| ART. | D | H | L | F |
| 382.716 025 | 16 | 5 | 25 | 19x1 |
| 382.716 040 | 16 | 5 | 40 | 19x1 |
| 382.720 025B | 20 | 5 | 25 | 19x1 |
| 382.720.040B | 20 | 5 | 40 | 19x1 |
| 382.720 025 | 20 | 7 | 25 | 19x1 |
| 382.720 040 | 20 | 7 | 40 | 19x1 |
| 382.725 025 | 25 | 9 | 25 | 19x1 |
| 382.725 040 | 25 | 9 | 40 | 19x1 |
| 382.730 040 | 30 | 11 | 40 | 19x1 |
| 382.738 040 | 38 | 10 | 40 | 19x1 |





PORTA MASCHI A CAMBIO RAPIDO

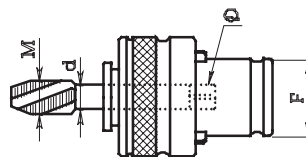
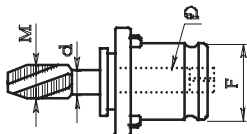
QUICK CHANGE FLOATING TAP HOLDERS



| Code | | | | extension | compression | F | Tap capacity |
|---------|----|----|----|--------------|----------------|----|--------------|
| ART. | d | H | D | estrazione E | compressione C | F | Per maschi |
| 198.120 | 20 | 41 | 38 | 9 | 9 | 19 | M3 - M12 |
| 198.125 | 25 | 41 | 38 | 9 | 9 | 19 | M3 - M12 |
| 198.132 | 32 | 41 | 38 | 9 | 9 | 19 | M3 - M12 |
| 198.140 | 40 | 41 | 38 | 9 | 9 | 19 | M3 - M12 |
| 198.225 | 25 | 63 | 55 | 15 | 15 | 31 | M3 - M20 |
| 198.232 | 32 | 63 | 55 | 15 | 15 | 31 | M3 - M20 |
| 198.240 | 40 | 63 | 55 | 15 | 15 | 31 | M3 - M20 |

INSERZIONI PORTA MASCHIO A CAMBIO RAPIDO

ADAPTORS FOR TAP HOLDERS

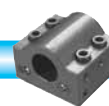
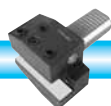


Senza frizione - Without safety clutch

| Code | | square | | | |
|----------|-----|----------|--------|------|----|
| ART. | d | Quadro Q | M | Fig. | F |
| Z B0.025 | 2.5 | 2.1 | M1 | 1 | 13 |
| Z B0.028 | 2.8 | 2.1 | M2-2.5 | 1 | 13 |
| Z B0.035 | 3.5 | 2.7 | M3 | 1 | 13 |
| Z B0.045 | 4.5 | 3.4 | M4 | 1 | 13 |
| Z B0.060 | 6 | 4.9 | M5-6-8 | 1 | 13 |
| Z B0.070 | 7 | 5.5 | M10 | 1 | 13 |
| Z B0.080 | 8 | 6.2 | M8 | 1 | 13 |
| Z B1.035 | 3.5 | 2.7 | M3 | 1 | 19 |
| Z B1.045 | 4.5 | 3.4 | M4 | 1 | 19 |
| Z B1.060 | 6 | 4.9 | M5-6-8 | 1 | 19 |
| Z B1.070 | 7 | 5.5 | M10 | 1 | 19 |
| Z B1.080 | 8 | 6.2 | M8 | 1 | 19 |
| Z B1.090 | 9 | 7 | M12 | 1 | 19 |
| Z B1.100 | 10 | 8 | M10 | 1 | 19 |
| Z B1.110 | 11 | 9 | M14 | 1 | 19 |
| Z B2.060 | 6 | 4.9 | M5-6-8 | 1 | 31 |
| Z B2.070 | 7 | 5.5 | M10 | 1 | 31 |
| Z B2.080 | 8 | 6.2 | M8 | 1 | 31 |
| Z B2.090 | 9 | 7 | M12 | 1 | 31 |
| Z B2.100 | 10 | 8 | M10 | 1 | 31 |
| Z B2.110 | 11 | 9 | M14 | 1 | 31 |
| Z B2.120 | 12 | 9 | M16 | 1 | 31 |
| Z B2.140 | 14 | 11 | M18 | 1 | 31 |
| Z B2.160 | 16 | 12 | M20 | 1 | 31 |
| Z B2.180 | 18 | 14.5 | M22-24 | 1 | 31 |

Con frizione registrabile - With safety clutch

| Code | | square | | | |
|-----------|-----|----------|--------|------|----|
| ART. | d | Quadro Q | M | Fig. | F |
| Z BF0.025 | 2.5 | 2.1 | M1 | 2 | 13 |
| Z BF0.028 | 2.8 | 2.1 | M2-2.5 | 2 | 13 |
| Z BF0.035 | 3.5 | 2.7 | M3 | 2 | 13 |
| Z BF0.045 | 4.5 | 3.4 | M4 | 2 | 13 |
| Z BF0.060 | 6 | 4.9 | M5-6-8 | 2 | 13 |
| Z BF0.070 | 7 | 5.5 | M10 | 2 | 13 |
| Z BF0.080 | 8 | 6.2 | M8 | 2 | 13 |
| Z BF1.035 | 3.5 | 2.7 | M3 | 2 | 19 |
| Z BF1.045 | 4.5 | 3.4 | M4 | 2 | 19 |
| Z BF1.060 | 6 | 4.9 | M5-6-8 | 2 | 19 |
| Z BF1.070 | 7 | 5.5 | M10 | 2 | 19 |
| Z BF1.080 | 8 | 6.2 | M8 | 2 | 19 |
| Z BF1.090 | 9 | 7 | M12 | 2 | 19 |
| Z BF1.100 | 10 | 8 | M10 | 2 | 19 |
| Z BF1.110 | 11 | 9 | M14 | 2 | 19 |
| Z BF2.060 | 6 | 4.9 | M5-6-8 | 2 | 31 |
| Z BF2.070 | 7 | 5.5 | M10 | 2 | 31 |
| Z BF2.080 | 8 | 6.2 | M8 | 2 | 31 |
| Z BF2.090 | 9 | 7 | M12 | 2 | 31 |
| Z BF2.100 | 10 | 8 | M10 | 2 | 31 |
| Z BF2.110 | 11 | 9 | M14 | 2 | 31 |
| Z BF2.120 | 12 | 9 | M16 | 2 | 31 |
| Z BF2.140 | 14 | 11 | M18 | 2 | 31 |
| Z BF2.160 | 16 | 12 | M20 | 2 | 31 |
| Z BF2.180 | 18 | 14.5 | M22-24 | 2 | 31 |

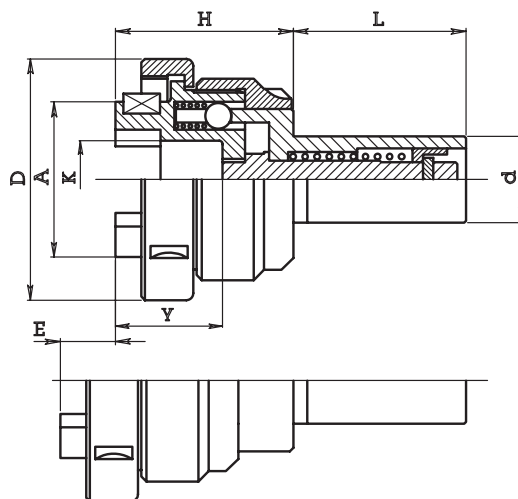




PORTA FILIERA AD ESTRAZIONE Tipo 210
FLOATING DIE HOLDER WITH EXTENSION



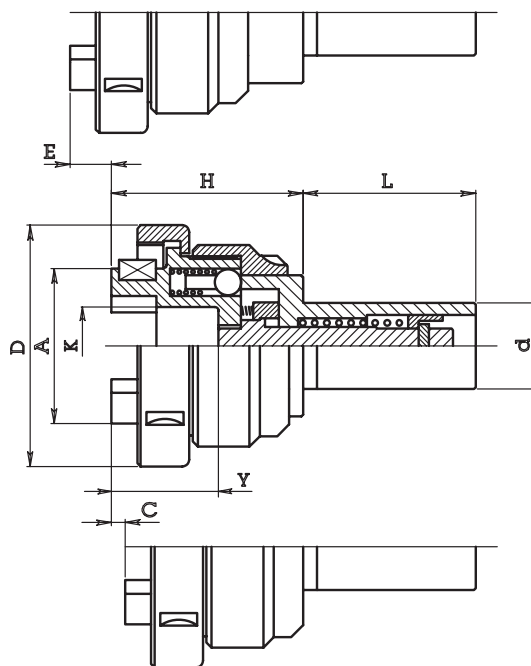
| Code | | | | | | Die holder bush code | | | |
|----------|--------|----|----|----|----|----------------------|----|----|----|
| ART. | d | L | H | D | A | art. cappello | E | K | Y |
| 210.115 | 15.875 | 32 | 33 | 36 | 21 | 218.... | 8 | 10 | 20 |
| 210.116 | 16 | 32 | 33 | 36 | 21 | 218.... | 8 | 10 | 20 |
| 210.119 | 19.05 | 32 | 33 | 36 | 21 | 218.... | 8 | 10 | 20 |
| 210.120 | 20 | 32 | 33 | 36 | 21 | 218.... | 8 | 10 | 20 |
| 210.219 | 19.05 | 46 | 42 | 57 | 32 | 220.... | 12 | 13 | 23 |
| 210.220 | 20 | 46 | 42 | 57 | 32 | 220.... | 12 | 13 | 23 |
| 210.222 | 22 | 46 | 42 | 57 | 32 | 220.... | 12 | 13 | 23 |
| 210.225 | 25 | 46 | 42 | 57 | 32 | 220.... | 12 | 13 | 23 |
| 210.226 | 25.40 | 46 | 42 | 57 | 32 | 220.... | 12 | 13 | 23 |
| 210.325 | 25 | 50 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.325L | 25 | 80 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.326 | 25.40 | 50 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.326L | 25.40 | 80 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.330 | 30 | 50 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.331 | 31.75 | 50 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.332 | 32 | 50 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |
| 210.340 | 40 | 85 | 51 | 70 | 45 | 230.... | 16 | 22 | 31 |



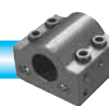
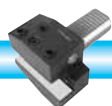
E = Corsa di estrazione
E = Extension stroke

PORTA FILIERA AD ESTRAZIONE E COMPRESIONE Tipo 210 A
FLOATING DIE HOLDER WITH EXTENSION AND COMPRESSION

| Code | | | | | | Die holder bush code | | | | |
|-----------|--------|----|----|----|----|----------------------|-----|------|----|----|
| ART. | d | L | H | D | A | art. cappello | E | C | K | Y |
| 210.115A | 15.875 | 32 | 33 | 36 | 21 | 218.... | 5.5 | -2.5 | 10 | 20 |
| 210.116A | 16 | 32 | 33 | 36 | 21 | 218.... | 5.5 | -2.5 | 10 | 20 |
| 210.119A | 19.05 | 32 | 33 | 36 | 21 | 218.... | 5.5 | -2.5 | 10 | 20 |
| 210.120A | 20 | 32 | 33 | 36 | 21 | 218.... | 5.5 | -2.5 | 10 | 20 |
| 210.219A | 19.05 | 46 | 45 | 57 | 32 | 220.... | 9 | -3 | 13 | 23 |
| 210.220A | 20 | 46 | 45 | 57 | 32 | 220.... | 9 | -3 | 13 | 23 |
| 210.222A | 22 | 46 | 45 | 57 | 32 | 220.... | 9 | -3 | 13 | 23 |
| 210.225A | 25 | 46 | 45 | 57 | 32 | 220.... | 9 | -3 | 13 | 23 |
| 210.226A | 25.40 | 46 | 45 | 57 | 32 | 220.... | 9 | -3 | 13 | 23 |
| 210.325A | 25 | 50 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.325AL | 25 | 80 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.326A | 25.40 | 50 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.326AL | 25.40 | 80 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.330A | 30 | 50 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.331A | 31.75 | 50 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.332A | 32 | 50 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |
| 210.340A | 40 | 85 | 55 | 71 | 45 | 230.... | 12 | -4 | 22 | 31 |

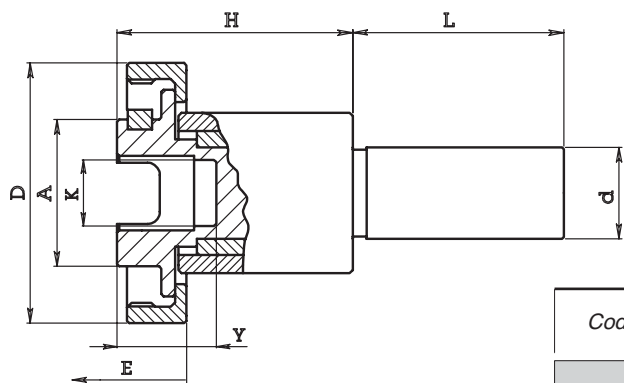


E = Corsa di estrazione
C = Corsa di compressione
E = Extension stroke
C = Compression stroke





PORTA FILIERA CON ESTRAZIONE MAGGIORATA Tipo 211
FLOATING DIE HOLDER (BIGGER EXTENSION)



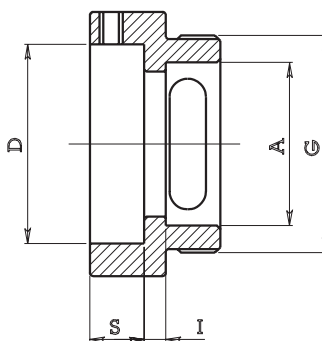
E = Corsa di estrazione
E = Extension stroke



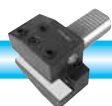
| Code | | | | | | Die holder bush code | | | |
|----------|-------|----|----|----|----|----------------------|----|----|----|
| ART. | d | H | L | D | A | art. cappello | E | K | Y |
| 211.216 | 16 | 51 | 46 | 57 | 32 | 220.... | 22 | 10 | 28 |
| 211.219 | 19.05 | 51 | 46 | 57 | 32 | 220.... | 22 | 10 | 28 |
| 211.220 | 20 | 51 | 46 | 57 | 32 | 220.... | 22 | 10 | 28 |
| 211.222 | 22 | 51 | 46 | 57 | 32 | 220.... | 22 | 10 | 28 |
| 211.216L | 16 | 59 | 46 | 57 | 32 | 220.... | 30 | 10 | 47 |
| 211.326 | 25.40 | 65 | 80 | 71 | 45 | 230.... | 30 | 22 | 40 |

CAPPELLOTTI PORTA FILIERA Tipo 218 Tipo 220 Tipo 230
DIE HOLDER CAPS

| Code | | | | | |
|---------|----|----|---|----|-----------|
| ART. | D | S | I | A | G |
| 220.116 | 16 | 5 | 5 | 32 | SG 48x1.5 |
| 220.120 | 20 | 5 | 5 | 32 | SG 48x1.5 |
| 220.220 | 20 | 7 | 3 | 32 | SG 48x1.5 |
| 220.125 | 25 | 9 | 3 | 32 | SG 48x1.5 |
| 220.130 | 30 | 11 | 3 | 32 | SG 48x1.5 |
| 220.138 | 38 | 10 | 6 | 32 | SG 48x1.5 |
| 220.238 | 38 | 14 | 3 | 32 | SG 48x1.5 |
| 220.145 | 45 | 14 | 3 | 32 | SG 48x1.5 |
| 220.245 | 45 | 18 | 3 | 32 | SG 48x1.5 |
| 220.150 | 50 | 16 | 4 | 32 | SG 48x1.5 |
| 220.155 | 55 | 16 | 4 | 32 | SG 48x1.5 |
| ART. | D | S | I | A | G |
| 230.220 | 20 | 7 | 9 | 45 | SG 60x1.5 |
| 230.125 | 25 | 9 | 7 | 45 | SG 60x1.5 |
| 230.130 | 30 | 11 | 5 | 45 | SG 60x1.5 |
| 230.138 | 38 | 10 | 6 | 45 | SG 60x1.5 |
| 230.238 | 38 | 14 | 3 | 45 | SG 60x1.5 |
| 230.145 | 45 | 14 | 3 | 45 | SG 60x1.5 |
| 230.245 | 45 | 18 | 4 | 45 | SG 60x1.5 |
| 230.150 | 50 | 16 | 6 | 45 | SG 60x1.5 |
| 230.155 | 55 | 16 | 6 | 45 | SG 60x1.5 |
| 230.165 | 65 | 18 | 6 | 45 | SG 60x1.5 |
| 230.175 | 75 | 20 | 6 | 45 | SG 60x1.5 |



| Code | | | | | |
|----------|----|----|---|----|------|
| ART. | D | S | I | A | G |
| 218.116 | 16 | 5 | 2 | 21 | 28x1 |
| 218.120 | 20 | 5 | 2 | 21 | 28x1 |
| 218.120B | 20 | 7 | 2 | 21 | 28x1 |
| 218.125 | 25 | 9 | 2 | 21 | 28x1 |
| 218.130 | 30 | 11 | 3 | 21 | 28x1 |



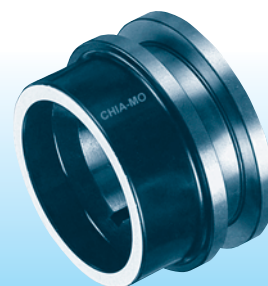
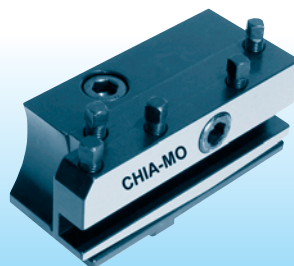


CHIA-MO

BOLOGNA - ITALY



P. utensili e ricambi per torni automatici ***TOOLHOLDERS AND SPARE PARTS FOR AUTOM. LATHES***





PORTA UTENSILI TRAVERSALI TIPO SEMPLICE Tipo 260
CROSSWISE TOOLHOLDER FOR SQUARE TOOL (SIMPLE TYPE)

QUESTO PORTA UTENSILE SI PUÒ MONTARE SIA SUL CARRO ANTERIORE CHE SUL CARRO POSTERIORE
YOU CAN USE THIS TOOLHOLDER IN FRONT OR BACK SLIDER

Per macchine (for machine):
INDEX 12-18-25 TRAUB TD 16-26-36 ATA 25

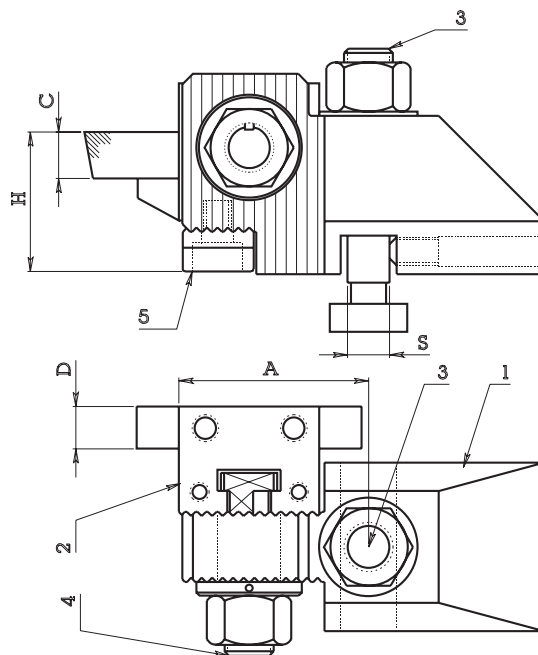
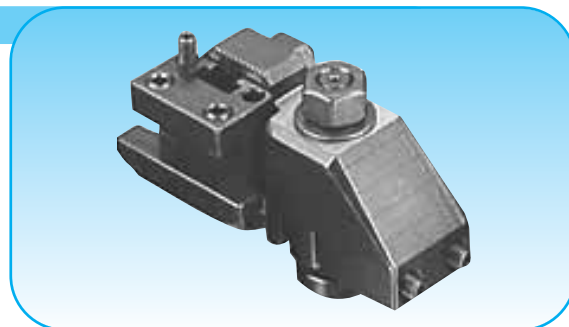
| Code | | | | | | |
|---------|--|-------|-------|------|----|----|
| ART. | A | H min | H max | C | D | S |
| | 50 | 16 | 32 | 10,5 | 10 | 10 |
| 260.200 | n° 0 - Portautensile completo | | | | | |
| 260.201 | n° 1 - Supporto | | | | | |
| 260.202 | n° 2 - Porta barretta | | | | | |
| 260.203 | n° 3 - Tirante bloccaggio supporto | | | | | |
| 260.204 | n° 4 - Tirante bloccaggio porta barretta | | | | | |
| 260.205 | n° 5 - Tassello di battuta vite registro | | | | | |

Per macchine (for machine):
INDEX C19 - 29

| ART. | A | H min | H max | C | D | S |
|---------|--|-------|-------|----|----|----|
| | 54 | 19 | 42 | 15 | 13 | 12 |
| 260.300 | n° 0 - Portautensile completo | | | | | |
| 260.301 | n° 1 - Supporto | | | | | |
| 260.402 | n° 2 - Porta barretta | | | | | |
| 260.303 | n° 3 - Tirante bloccaggio supporto | | | | | |
| 260.404 | n° 4 - Tirante bloccaggio porta barretta | | | | | |
| 260.405 | n° 5 - Tassello di battuta vite registro | | | | | |

Per macchine (for machine):
INDEX 36-42-52-60 TRAUB TB 42-60 ATA 40 SKODA 40 TAREX 42

| ART. | A | H min | H max | C | D | S |
|---------|--|-------|-------|----|----|----|
| | 60 | 19 | 42 | 15 | 13 | 14 |
| 260.400 | n° 0 - Portautensile completo | | | | | |
| 260.401 | n° 1 - Supporto | | | | | |
| 260.402 | n° 2 - Porta barretta | | | | | |
| 260.403 | n° 3 - Tirante bloccaggio supporto | | | | | |
| 260.404 | n° 4 - Tirante bloccaggio porta barretta | | | | | |
| 260.405 | n° 5 - Tassello di battuta vite registro | | | | | |



NOTA BENE
In questi porta utensili il tirante varia a seconda del tipo di macchina su cui viene montato.
Per avere ulteriori informazioni consultare la pag. 115 in cui si specifica quali sono i tiranti compatibili con le diverse macchine.

ATTENTION
In this toolholder the pull stud is different for each machine.
See pag. 115 for more information.

PORTA BARRETTE PER PORTA UTENSILI TRAVERSALI Tipo 260
TOOLHOLDERS FOR CODE 260

| Code | | | | | for tool | |
|----------|------|------|----|------|--------------|------|
| ART. | C | D | L | S | per barretta | Fig. |
| 260.202 | 10.5 | 10 | 48 | 22.5 | 10x10 | 1 |
| 260.202B | 10.5 | 20.5 | 48 | 37.5 | 10x20 | 2 |
| 260.402 | 15 | 13 | 64 | 30 | 12x12 | 1 |
| 260.402B | 15 | 25.5 | 64 | 47.5 | 12x20 | 2 |
| 260.402C | 15 | 30.5 | 64 | 52.5 | 16x32 | 2 |

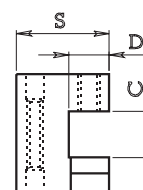
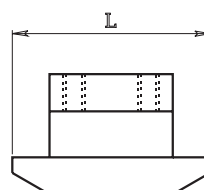


Fig. 1

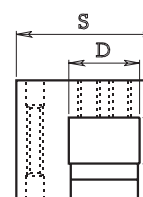
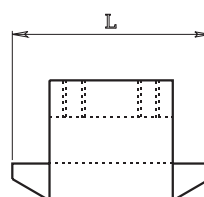
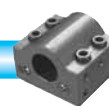
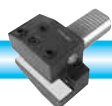
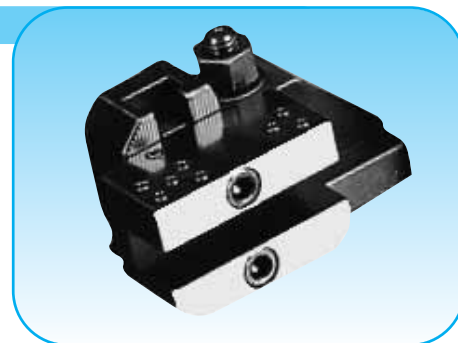


Fig. 2





PORTA UTENSILE TRAVERSALE TIPO DOPPIO Tipo 270
CROSSWISE TOOLHOLDER FOR SQUARE TOOL (DOUBLE TYPE)

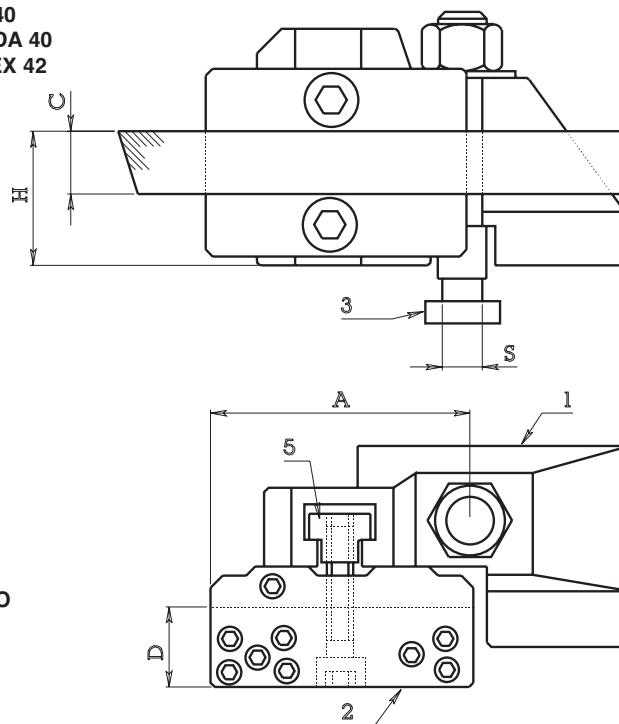


| Back side code | | | | | | | Front side code |
|-----------------|--|-------|-------|---|---|---|-----------------|
| ART. posteriore | A | H min | H max | C | D | S | ART. anteriore |
| 270.210 | n° 0 -Portautensile completo | | | | | | 270.200 |
| 270.211 | n° 1 -Supporto | | | | | | 270.201 |
| 270.212 | n° 2 -Porta barretta | | | | | | 270.202 |
| 270.203 | n° 3 -Tirante bloccaggio supporto | | | | | | 270.203 |
| 270.205 | n° 5 -Tassello per bloccaggio porta barretta | | | | | | 270.205 |

Per macchine (for machine):
INDEX 12-18-25
TRAUB TD 16-26-36
ATA 25

| Back side code | | | | | | | Front side code |
|-----------------|--|-------|-------|---|---|---|-----------------|
| ART. posteriore | A | H min | H max | C | D | S | ART. anteriore |
| 270.410 | n° 0 -Portautensile completo | | | | | | 270.400 |
| 270.411 | n° 1 -Supporto | | | | | | 270.401 |
| 270.412 | n° 2 -Porta barretta | | | | | | 270.402 |
| 260.403 | n° 3 -Tirante bloccaggio supporto | | | | | | 260.403 |
| 270.405 | n° 5 -Tassello per bloccaggio porta barretta | | | | | | 270.405 |

Per macchine (for machine):
INDEX 36-42-52-60
TRAUB TB 42-60
ATA 40
SKODA 40
TAREX 42



NOTA BENE

In questi porta utensili il tirante varia a seconda del tipo di macchina su cui viene montato.

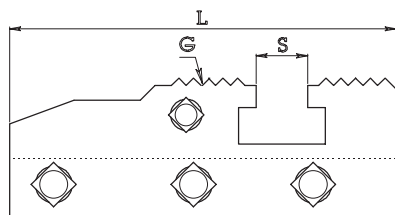
Per avere ulteriori informazioni consultare la pag. 115 in cui si specifica quali sono i tiranti compatibili con le diverse macchine.

ATTENTION

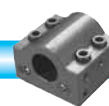
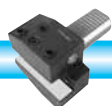
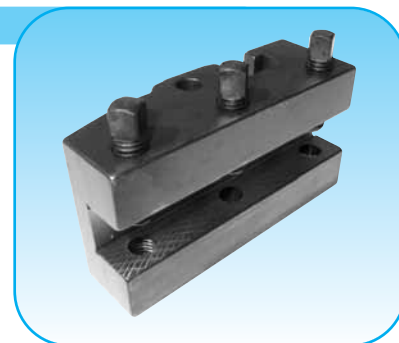
In this toolholder the pull stud is different for each machine. See pag. 115 for more information.

IL PORTA UTENSILE QUI RAPPRESENTATO È PER IL CARRO ANTERIORE
THE TOOLHOLDER IN REPRESENTATION IS USED IN FRONT SLIDER

PORTA UTENSILI PER PLURIMANDRINO
MULTISPINDLE TOOLHOLDERS



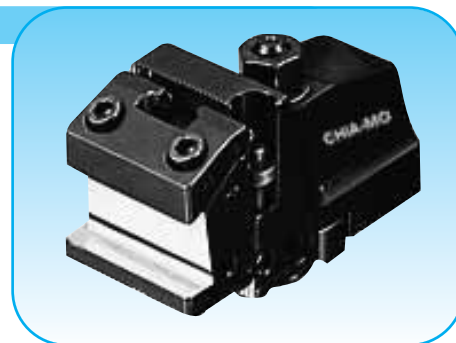
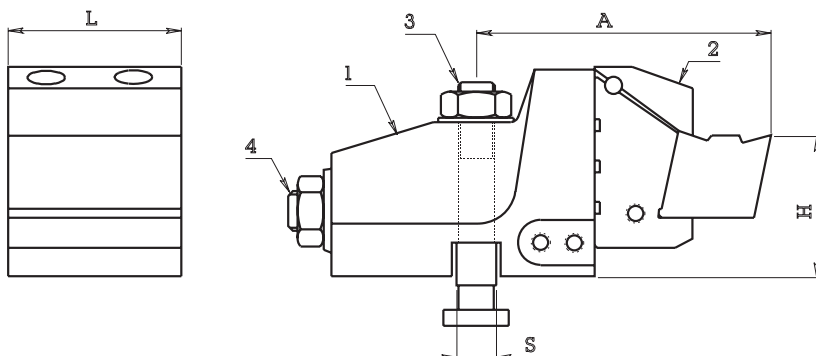
| Code | | | | | | |
|---------|------------|----|----|-----|----|----|
| ART. | G | B | S | L | H | A |
| 270.602 | 60° P. 2.5 | 14 | 15 | 78 | 40 | 28 |
| 270.802 | 90° P. 4 | 18 | 14 | 105 | 54 | 38 |





PORTA UTENSILE TRASVERSALE A SABLONARE Tipo 280

CROSSWISE TOOLHOLDER



Per macchine (for machine): INDEX 12-18-25

| Code | A | L | H | S |
|---------|--|----|----|----|
| ART. | 73 | 46 | 30 | 10 |
| 280.200 | n° 0 - Portautensile completo | | | |
| 280.201 | n° 1 - Supporto | | | |
| 280.202 | n° 2 - Porta barretta | | | |
| 280.203 | n° 3 - Tirante bloccaggio supporto | | | |
| 280.204 | n° 4 - Tirante per bloccaggio porta barretta | | | |

Per macchine (for machine): INDEX 36-42-52-60

| Code | A | L | H | S |
|---------|--|----|----|----|
| ART. | 83 | 50 | 36 | 14 |
| 280.400 | n° 0 - Portautensile completo | | | |
| 280.401 | n° 1 - Supporto | | | |
| 280.402 | n° 2 - Porta barretta | | | |
| 260.403 | n° 3 - Tirante bloccaggio supporto | | | |
| 280.404 | n° 4 - Tirante per bloccaggio porta barretta | | | |

NOTA BENE

In questi porta utensili il tirante varia a seconda del tipo di macchina su cui viene montato. Per avere ulteriori informazioni consultare la pag. 115 in cui si specifica quali sono i tiranti compatibili con le diverse macchine.

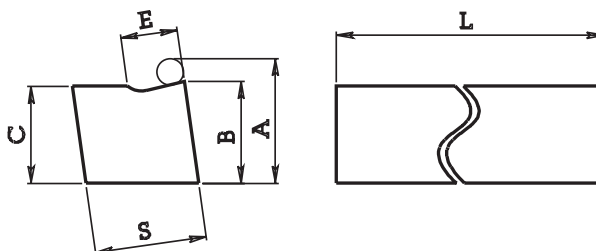
ATTENTION

In this toolholder the pull stud is different for each machine. See pag. 115 for more information.

UTENSILE A SABLONARE Tipo BA 280

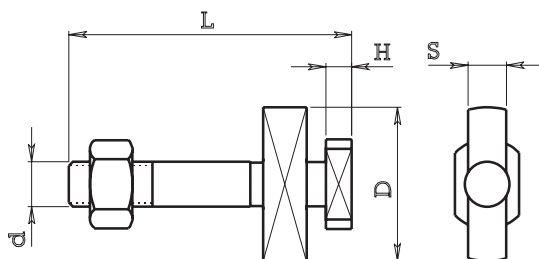
TOOL FOR 280 CODE

| Code | A | B | C | E | S | L |
|-----------|----|----|----|----|----|-----|
| ART. | 29 | 24 | 22 | 7 | 26 | 200 |
| BA 280200 | 29 | 24 | 22 | 7 | 26 | 200 |
| BA 280400 | 31 | 26 | 25 | 10 | 26 | 200 |



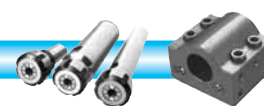
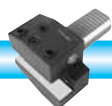
TIRANTI PER PORTA UTENSILI TRASVERSALI

PULL STUD FOR CROSSWISE TOOLHOLDERS



| Code | S | d | L | H | D | Machine |
|----------|----|----|----|---|----|------------------------------------|
| ART. | S | d | L | H | D | MACCHINA |
| 260.203 | 10 | 10 | 59 | 5 | 29 | INDEX 12-18-25 TRAUB TD16-26-36 |
| 260.203B | 12 | 10 | 59 | 5 | 29 | INDEX C 19-29 TRAUB A 15-20-25 |

| Code | S | d | L | H | D | Machine |
|----------|----|----|----|---|----|--------------------|
| ART. | S | d | L | H | D | MACCHINA |
| 260.303 | 12 | 14 | 74 | 8 | 48 | INDEX C19-29 |
| 260.403 | 14 | 14 | 88 | 8 | 48 | INDEX 36-52-60 |
| 260.403B | 15 | 14 | 88 | 8 | 48 | TRAUB TB 42-60 |
| 260.403C | 16 | 14 | 88 | 8 | 48 | ATA 40 SKODA 40 |
| 260.403D | 12 | 14 | 88 | 8 | 48 | INDEX C 19-29 |
| 270.203 | 10 | 10 | 67 | 5 | 40 | INDEX 12-18-25 |
| 270.203B | 12 | 10 | 67 | 5 | 40 | INDEX C 19-29 |
| 280.203 | 10 | 10 | 67 | 5 | 48 | INDEX 12-18-25 |
| 280.203B | 12 | 10 | 67 | 5 | 48 | INDEX C 19-29 |





TIRANTI BLOCCAGGIO PORTA BARRETTA

PULL STUD FOR SQUARE TOOLHOLDERS

| Code | | | | | for toolholder | |
|---------|-----|----|-----|-----|--------------------|------|
| ART. | d | D | L | H | per portautensile | Fig. |
| 280.204 | M10 | 20 | 97 | 6 | 280.200 | 1 |
| 280.404 | M14 | 25 | 122 | 7 | 280.400 | 1 |
| 260.204 | M10 | 14 | 37 | 4 | 260.200 | 2 |
| 260.404 | M14 | 18 | 47 | 5.5 | 260.400 260.300 | 2 |

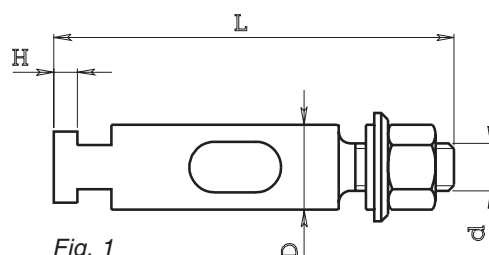


Fig. 1

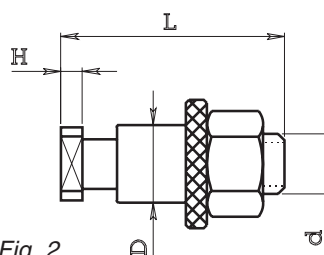
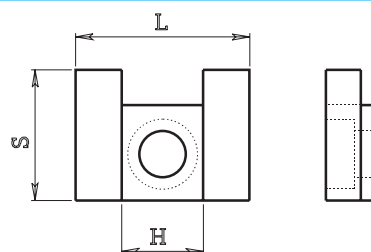


Fig. 2

TASSELLI PER PORTA UTENSILI

DOWEL FOR TOOLHOLDERS

| Code | | | | for toolholder |
|---------|----|----|----|-------------------|
| ART. | L | S | H | per portautensile |
| 260.205 | 30 | 22 | 13 | 260.200 |
| 260.405 | 40 | 20 | 18 | 260.300 - 260.400 |



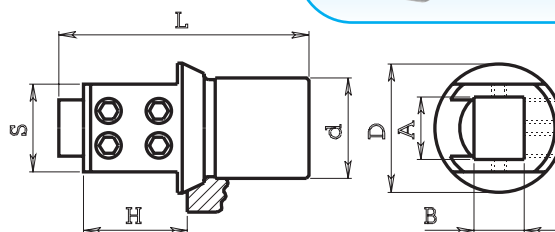
PORTA BARRETTE Tipo 288

SQUARE TOOLHOLDERS

Per macchine (for machine):
INDEX E-ER 42-60



| Code | | | | | | | |
|---------|----|----|----|----|----|----|----|
| ART. | A | B | d | D | H | L | S |
| 288.110 | 10 | 10 | 32 | 41 | 40 | 80 | 18 |
| 288.114 | 14 | 14 | 32 | 41 | 40 | 80 | 19 |
| 288.116 | 16 | 16 | 32 | 41 | 40 | 80 | 25 |
| 288.120 | 20 | 16 | 32 | 41 | 40 | 80 | 28 |

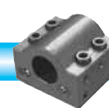
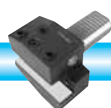
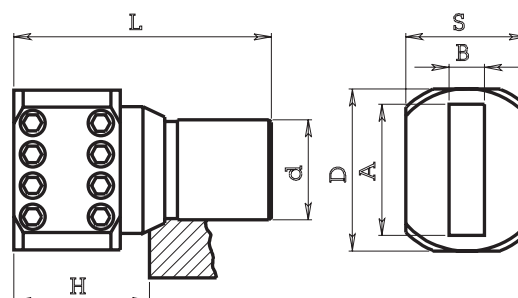


PORTA BARRETTE Tipo 288

SQUARE TOOLHOLDERS

Per macchine (for machine):
INDEX E-ER 42-60

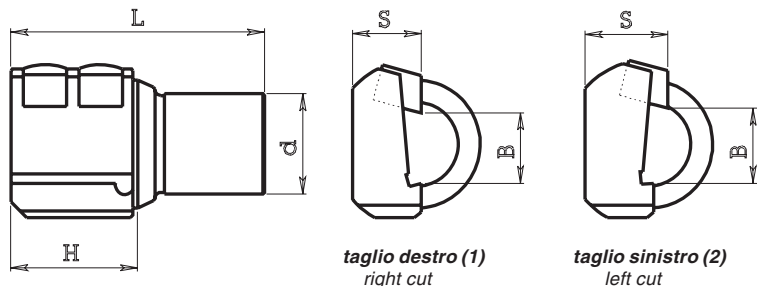
| Code | | | | | | | |
|---------|----|----|----|----|----|----|----|
| ART. | A | B | d | D | H | L | S |
| 288.140 | 42 | 12 | 32 | 52 | 42 | 82 | 40 |





PORTA LAMA TRAPEZOIDALE Tipo 288

CUTTING TOOLHOLDERS (TRAPEZIUM FORM)



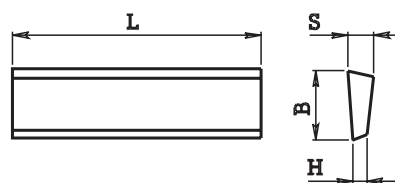
Per macchine (for machine):
INDEX E-ER 42-60

| Code | ART. | B | d | H | L | S | |
|------|----------|----|----|----|----|----|---------------------|
| | 288.317D | 17 | 32 | 42 | 82 | 22 | TAGLIO DESTRO (1) |
| | 288.317S | 17 | 32 | 42 | 82 | 22 | TAGLIO SINISTRO (2) |

BARRETTE TRAPEZOIDALI Tipo BT 17

CUTTING TOOL WITH TRAPEZIUM FORM

| Code | ART. | S | H | B |
|------|---------|---|---|----|
| | BT 1703 | 3 | 2 | 17 |
| | BT 1704 | 4 | 3 | 17 |
| | BT 1705 | 5 | 4 | 17 |
| | BT 1706 | 6 | 5 | 17 |

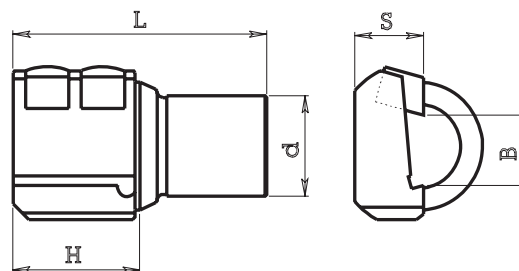


PORTA LAMA A INSERTI Tipo 288

CUTTING TOOLHOLDER

Per macchine (for machine):
INDEX E-ER 42-60

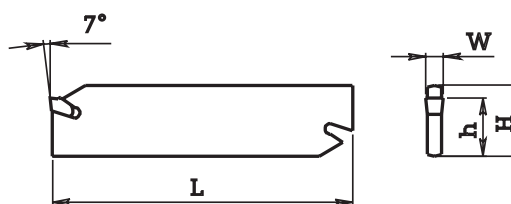
| Code | ART. | B | d | H | L | S |
|------|---------|----|----|----|----|----|
| | 288.325 | 26 | 32 | 42 | 82 | 22 |



Questo porta utensile è adatto sia per taglio destro che per taglio sinistro
This toolholder may be used for right or left cut

LAMA PORTA INSERTI (CUTTING TOOL)

| LAMA (Blade) | | | | | | INSERTO (Insert) | |
|--------------|----|-----|-----|------|----|------------------|-----|
| ART. | H | S | L | h | D | ART. | W |
| PL 2616 | 26 | 1.6 | 110 | 21.4 | 50 | PL 22 IN | 2.2 |
| PL 2616 | 26 | 1.6 | 110 | 21.4 | 50 | PL 24 IN | 2.4 |
| PL 2624 | 26 | 2.4 | 110 | 21.4 | 75 | PL 31 IN | 3.1 |
| PL 2632 | 26 | 3.2 | 110 | 21.4 | 80 | PL 41 IN | 4.1 |



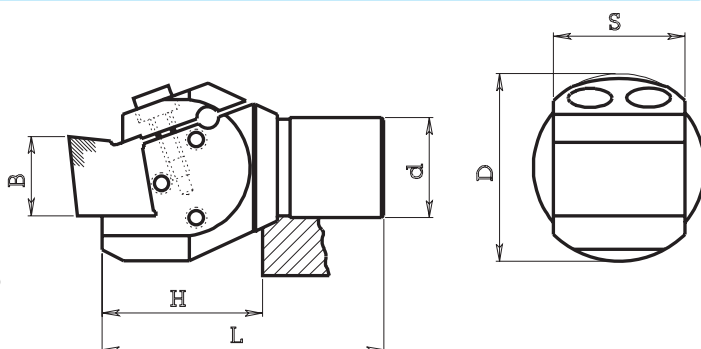
D = Diametro massimo di taglio
D = Cut max swing

PORTA UTENSILE A SABLONARE Tipo 288

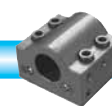
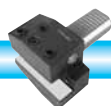
TOOLHOLDER

Per macchine (for machine):
INDEX E-ER 42-60

| Code | ART. | B | d | D | H | L | S |
|------|---------|----|----|----|----|----|----|
| | 288.400 | 25 | 32 | 60 | 50 | 90 | 42 |

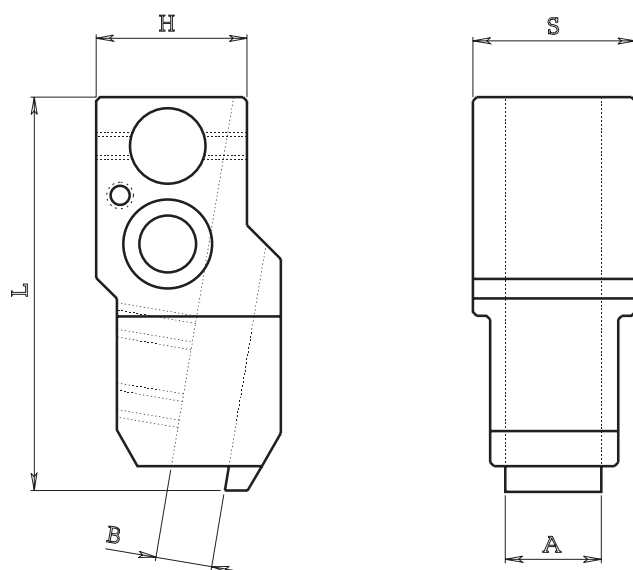


L'utensile che va montato è l'art. BA 280400 descritto a pag. 115
This toolholder suite code BA 280400 see pag. 115





PORTA UTENSILI VERTICALI Tipo 290
VERTICAL TOOLHOLDERS

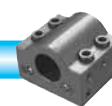
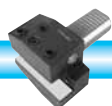
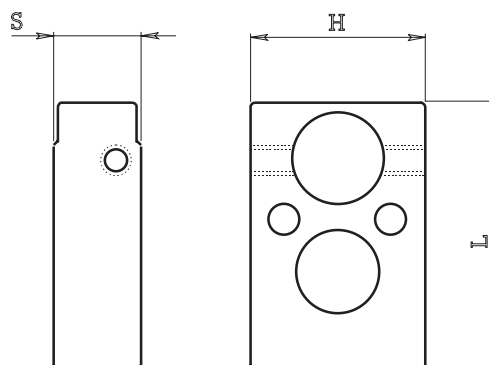


| Code | | | | | | Machine |
|---------|----|----|----|----|-----|---------------------|
| ART. | A | B | S | H | L | MACCHINA |
| 290.204 | 4 | 11 | 20 | 35 | 82 | INDEX 12-18-25 |
| 290.210 | 10 | 11 | 26 | 35 | 82 | INDEX 12-18-25 |
| 290.220 | 20 | 21 | 36 | 35 | 82 | INDEX 12-18-25 |
| 290.406 | 6 | 18 | 25 | 50 | 105 | INDEX C19-29 B42-60 |
| 290.412 | 12 | 15 | 30 | 50 | 105 | INDEX C19-29 B42-60 |
| 290.414 | 14 | 15 | 32 | 50 | 105 | INDEX C19-29 B42-60 |
| 290.420 | 20 | 15 | 37 | 50 | 105 | INDEX C19-29 B42-60 |
| 290.425 | 25 | 15 | 43 | 50 | 105 | INDEX C19-29 B42-60 |

PIASTRINO DISTANZIATORE Tipo 291
SPACER PLATE

| Code | | | | for toolholder |
|---------|----|----|----|-------------------|
| ART. | S | H | L | per portautensile |
| 291.205 | 5 | 30 | 52 | 290.200 |
| 291.210 | 10 | 30 | 52 | 290.200 |
| 291.215 | 15 | 30 | 52 | 290.200 |
| 291.220 | 20 | 30 | 52 | 290.200 |
| 291.405 | 5 | 40 | 61 | 290.400 |
| 291.410 | 10 | 40 | 61 | 290.400 |
| 291.415 | 15 | 40 | 61 | 290.400 |
| 291.420 | 20 | 40 | 61 | 290.400 |

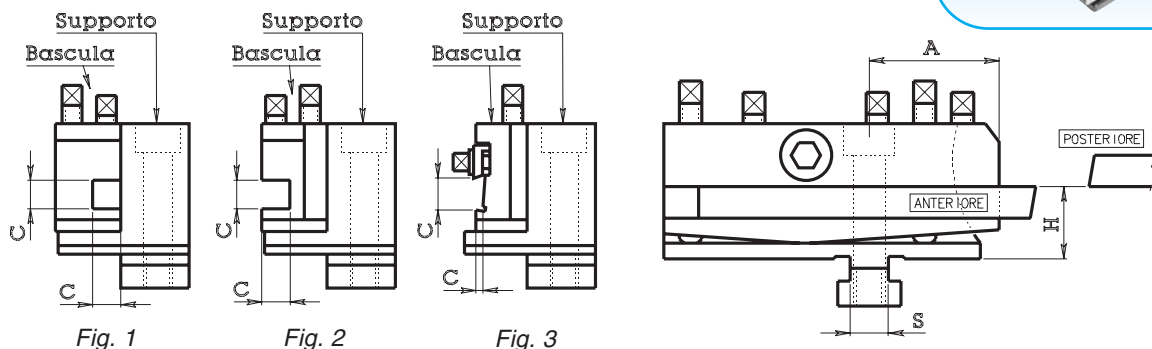
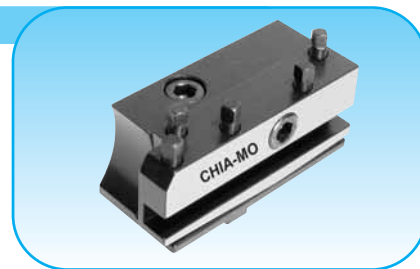
Per porta utensili verticali tipo 290
For vertical toolholders 290 type





PORTA UTENSILI TRAVERSALI Tipo 300 - 302 - 306

CROSSWISE TOOLHOLDER



PORTA UTENSILE OSCILLANTE TIPO CHIUSO Tipo 300

OSCILLATING TOOLHOLDER (CLOSE TYPE)

Fig. 1

| Code | side position | | | | | bracket code | toolholder code | machine |
|---------|---------------|----|----|----|-------|---------------|-----------------|---|
| ART. | posizione | H | A | S | C | art. supporto | art. bascula | macchine |
| 300.101 | ANT. | 22 | 41 | 12 | 10x10 | 300.101A | 300.101B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 300.201 | POST. | 22 | 41 | 12 | 10x10 | 300.201A | 300.201B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 300.601 | ANT. | 40 | 62 | 15 | 12x12 | 300.601A | 300.601B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 300.701 | POST. | 40 | 62 | 15 | 12x12 | 300.701A | 300.701B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |

PORTA UTENSILE OSCILLANTE TIPO APERTO Tipo 302

OSCILLATING TOOLHOLDER (OPEN TYPE)

Fig. 2

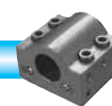
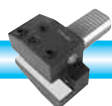
| ART. | posizione | H | A | S | C | art. supporto | art. bascula | macchine |
|---------|-----------|----|----|----|-------|---------------|--------------|---|
| 302.101 | ANT. | 22 | 41 | 12 | 10x10 | 300.101A | 302.101B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 302.102 | ANT. | 22 | 41 | 12 | 10x20 | 300.101A | 302.102B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 302.201 | POST. | 22 | 41 | 12 | 10x10 | 300.201A | 302.201B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 302.202 | POST. | 22 | 41 | 12 | 10x20 | 300.201A | 302.202B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 302.601 | ANT. | 40 | 62 | 15 | 12x12 | 300.601A | 302.601B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 302.602 | ANT. | 40 | 62 | 15 | 12x25 | 300.601A | 302.602B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 302.701 | POST. | 40 | 62 | 15 | 12x12 | 300.701A | 302.701B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 302.702 | POST. | 40 | 62 | 15 | 12x25 | 300.701A | 302.702B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 302.141 | ANT. | 26 | 40 | 12 | 10x10 | 300.141A | 302.141B | GIORGI GM 20-32 |
| 302.142 | ANT. | 26 | 40 | 12 | 10x25 | 300.141A | 302.142B | GIORGI GM 20-32 |
| 302.241 | POST. | 26 | 40 | 12 | 10x10 | 300.241A | 302.241B | GIORGI GM 20-32 |
| 302.242 | POST. | 26 | 40 | 12 | 10x25 | 300.241A | 302.242B | GIORGI GM 20-32 |

PORTA UTENSILE DA TAGLIO OSCILLANTE TIPO TRAPEZOIDALE Tipo 306

OSCILLATING CUTTING TOOLHOLDER (TRAPEZIUM FORM TYPE)

Fig. 3

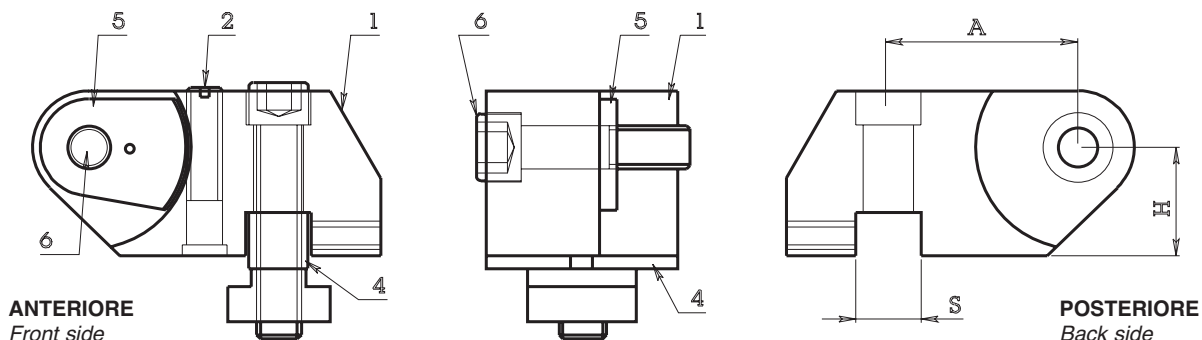
| ART. | posizione | H | A | S | C | art. supporto | art. bascula | macchine |
|----------|-----------|----|----|----|------|---------------|--------------|---|
| 306.101 | ANT. | 22 | 40 | 12 | 13x3 | 306.101A | 306.101B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 306.201 | POST. | 22 | 40 | 12 | 13x3 | 306.201A | 306.201B | TRAUB A 15-20-25 / SAIC B26 / ITS 26 |
| 306.601* | ANT. | 40 | 60 | 15 | 17x4 | 306.601A | 306.601B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 306.701* | POST. | 40 | 60 | 15 | 17x4 | 306.701A | 306.701B | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |





PORTA UTENSILI TRASVERSALI A DISCO Tipo 310

CROSSWISE TOOLHOLDERS (WASHER TYPE)

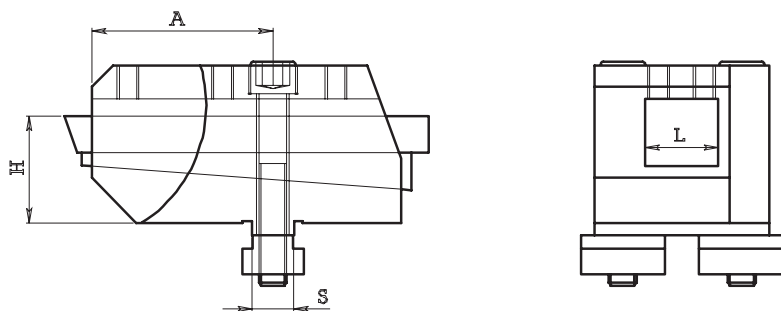


| Front side code | | | | | | Back side code |
|-----------------|-----------------------------------|---|---|---|---|-----------------|
| ART. anteriore | H | A | S | D | h | ART. posteriore |
| 310.100 | n° 0 - Portautensile completo | | | | | 310.200 |
| 310.101 | n° 1 - Supporto | | | | | 310.201 |
| 310.102 | n° 2 - Vite registrazione settore | | | | | 310.202 |
| 310.104 | n° 4 - Chiavetta | | | | | 310.104 |
| 310.105 | n° 5 - Settore dentato | | | | | 310.105 |
| 310.106 | n° 6 - Vite bloccaggio utensile | | | | | 310.106 |

Per macchine (for machine):
TRAUB A 15-20-25
SAIC B 26-30
ITS 26

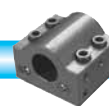
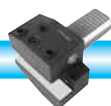
PORTA UTENSILI TRASVERSALI DOPPI E TRIPLI Tipo 320

CROSSWISE TOOLHOLDERS (DOUBLE AND TRIPLE TYPE)



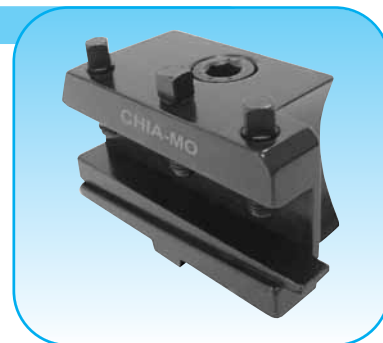
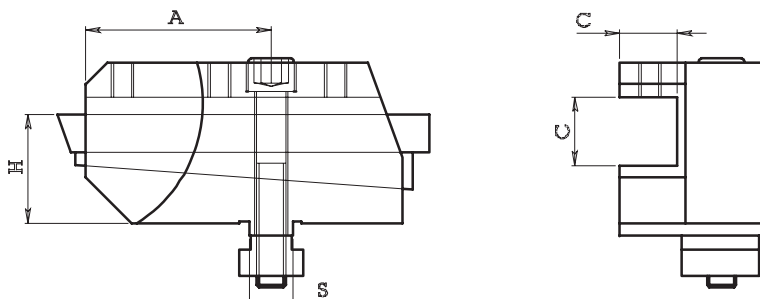
IL PORTA UTENSILE QUI RAPPRESENTATO È PER IL CARRO ANTERIORE
THE TOOLHOLDER IN REPRESENTATION IS USED IN FRONT SLIDER

| Code | position | | | | | tool | machine |
|---------|-----------|----|----|----|----|----------|---|
| ART. | posizione | H | A | S | L | utensile | macchine |
| 320.102 | ANT. | 22 | 38 | 12 | 22 | 10x20 | TRAUB A 15-20-25 / SAIC B26 / ITS 26 / GIORGI GM 20-25-32 |
| 320.103 | ANT. | 22 | 38 | 12 | 33 | 10x30 | TRAUB A 15-20-25 / SAIC B26 / ITS 26 / GIORGI GM 20-25-32 |
| 320.202 | POST. | 22 | 38 | 12 | 22 | 10x20 | TRAUB A 15-20-25 / SAIC B26 / ITS 26 / GIORGI GM 20-25-32 |
| 320.203 | POST. | 22 | 38 | 12 | 33 | 10x30 | TRAUB A 15-20-25 / SAIC B26 / ITS 26 / GIORGI GM 20-25-32 |
| 320.602 | ANT. | 40 | 65 | 15 | 27 | 12x25 | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 320.603 | ANT. | 40 | 65 | 15 | 41 | 12x40 | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 320.702 | POST. | 40 | 65 | 15 | 27 | 12x25 | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 320.703 | POST. | 40 | 65 | 15 | 41 | 12x40 | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |





PORTA UTENSILI TRAVERSALI APERTI Tipo 330
CROSSWISE TOOLHOLDER (OPEN TYPE)



IL PORTA UTENSILE QUI RAPPRESENTATO
È PER IL CARRO ANTERIORE
THE TOOLHOLDER IN REPRESENTATION
IS USED IN FRONT SLIDER

| Code | position | | | | | machine |
|---------|-----------|----|------|----|-------|---|
| ART. | posizione | H | A | S | C | macchine |
| 330.101 | ANT. | 22 | 38 | 12 | 10x10 | TRAUB A 15-20-25 / SAIC B26 / ITS 26 / GIORGI GM 20-25-32 |
| 330.201 | POST. | 22 | 38 | 12 | 10x10 | TRAUB A 15-20-25 / SAIC B26 / ITS 26 / GIORGI GM 20-25-32 |
| 330.111 | ANT. | 30 | 50 | 10 | 12x12 | TRAUB TD 16-26-36 |
| 330.211 | POST. | 30 | 50 | 10 | 12x12 | TRAUB TD 16-26-36 |
| 330.601 | ANT. | 40 | 62,5 | 15 | 12x12 | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |
| 330.701 | POST. | 40 | 62,5 | 15 | 12x12 | TRAUB A 36-42-60 TB 42-60 / SAIC B45 / ITS 60 |

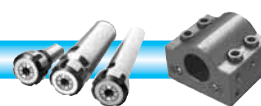
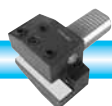
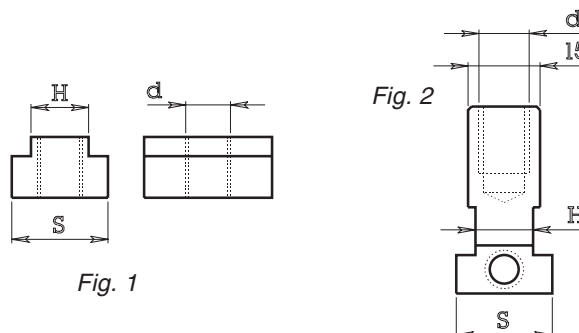
CUNEI Tipo 334
WEDGES

| Code | | |
|---------|----|-----|
| ART. | H | L |
| 334.101 | 10 | 85 |
| 334.102 | 20 | 85 |
| 334.103 | 30 | 85 |
| 334.601 | 15 | 120 |
| 334.602 | 25 | 120 |
| 334.603 | 40 | 120 |



TASSELLI Tipo 336
DOWELS

| Code | | | | |
|---------|------|----|----|------|
| ART. | d | H | S | Fig. |
| 336.110 | 10MA | 12 | 20 | 1 |
| 336.112 | 12MA | 12 | 20 | 1 |
| 336.210 | 10MA | 12 | 20 | 2 |
| 336.610 | 10MA | 15 | 22 | 1 |
| 336.612 | 12MA | 15 | 22 | 1 |
| 336.614 | 14MA | 15 | 22 | 1 |





TASSELLI PER SCATTO TORRETTA Tipo 336

DOWEL FOR RELEASING TURRET

| Code | | | | machine |
|----------|-----|----|------|----------------|
| ART. | d | S | Fig. | macchina |
| 336.901D | 6.5 | 8 | 4 | INDEX 12-18-25 |
| 336.901S | 6.5 | 8 | 3 | INDEX 12-18-25 |
| 336.903D | 8.2 | 10 | 2 | INDEX 24-36-52 |
| 336.903S | 8.2 | 10 | 1 | INDEX 24-36-52 |
| 336.904D | 8.2 | 10 | 4 | INDEX 36-42-52 |
| 336.904S | 8.2 | 10 | 3 | INDEX 36-42-52 |

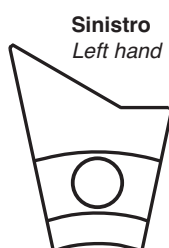
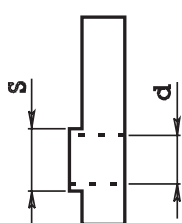


Fig. 1



Fig. 2

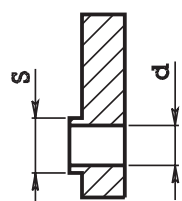


Fig. 3

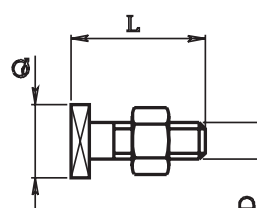


Fig. 4

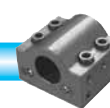
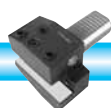
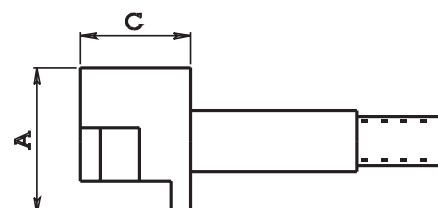
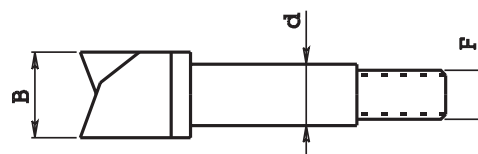
VITE PER TASSELLI SCATTO

SCREW FOR DOWELS

| Code | | | | for dowel |
|---------|-----|----|----|--------------|
| ART. | D | L | Q | per tasselli |
| 707.001 | 6MA | 22 | 12 | 336.901 |
| 707.002 | 8MA | 25 | 14 | 336.903 |



| Code | | | | | | machine |
|----------|----|----|----|----|-----|---------------------------------|
| ART. | d | A | B | C | F | macchina |
| 336.907 | 8 | 21 | 12 | 15 | 7x1 | INDEX 12-18-25 |
| 336.908 | 10 | 24 | 14 | 18 | 8x1 | INDEX 36-52 |
| 336.908B | 10 | 18 | 14 | 18 | 8x1 | INDEX C19-29 INDEX B30-42-60 |





PORTA GODRONI Tipo 340 e Tipo 341

KNURL HOLDERS

| Code | square | | | shear pin | | | |
|---------|--------|-----|---|------------|----|----|------|
| ART. | quadro | L | d | art. spina | D | S | Fig. |
| 340.006 | 6x6 | 120 | 4 | 736.903 | 12 | 4 | 1 |
| 340.007 | 7x7 | 120 | 4 | 736.903 | 12 | 4 | 1 |
| 340.008 | 8x8 | 120 | 4 | 736.903 | 12 | 4 | 1 |
| 340.010 | 10x10 | 120 | 4 | 736.903 | 12 | 4 | 1 |
| | | | | | | | |
| 340.106 | 6x6 | 120 | 5 | 736.901 | 15 | 5 | 1 |
| 340.107 | 7x7 | 120 | 5 | 736.901 | 15 | 5 | 1 |
| 340.108 | 8x8 | 120 | 5 | 736.901 | 15 | 5 | 1 |
| 340.110 | 10x10 | 120 | 5 | 736.901 | 15 | 5 | 1 |
| 340.112 | 12x12 | 120 | 5 | 736.901 | 15 | 5 | 1 |
| | | | | | | | |
| 340.210 | 10x10 | 120 | 6 | 736.902 | 20 | 6 | 1 |
| 340.212 | 12x12 | 120 | 6 | 736.902 | 20 | 6 | 1 |
| | | | | | | | |
| 340.310 | 10x10 | 120 | 6 | 736.902 | 20 | 8 | 1 |
| 340.312 | 12x12 | 120 | 6 | 736.902 | 20 | 8 | 1 |
| 340.316 | 16x16 | 120 | 6 | 736.902 | 20 | 8 | 1 |
| | | | | | | | |
| 340.410 | 10x10 | 120 | 6 | 736.904 | 20 | 10 | 1 |
| 340.412 | 12x12 | 120 | 6 | 736.904 | 20 | 10 | 1 |
| | | | | | | | |
| 341.008 | 8x8 | 120 | 4 | 736.903 | 12 | 4 | 2 |
| | | | | | | | |
| 341.108 | 8x8 | 120 | 5 | 736.901 | 15 | 5 | 2 |
| 341.110 | 10x10 | 120 | 5 | 736.901 | 15 | 5 | 2 |
| | | | | | | | |
| 341.310 | 10x10 | 130 | 6 | 736.902 | 20 | 8 | 2 |
| 341.312 | 12x12 | 130 | 6 | 736.902 | 20 | 8 | 2 |

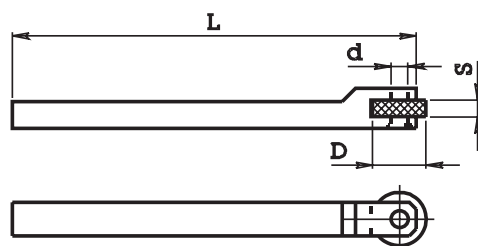


Fig. 1

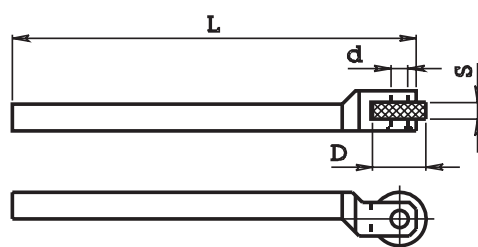


Fig. 2

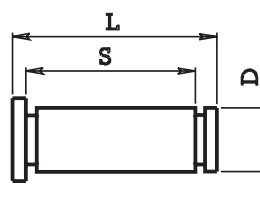
NOTA BENE

Il porta godrone viene fornito con spina
Knurl holder is provided with shear pin

SPINA PER PORTA GODRONI Tipo 736

SHEAR PIN FOR KNURL HOLDERS

| Code | | | |
|---------|---|----|----|
| ART. | D | L | S |
| 736.901 | 5 | 14 | 11 |
| 736.902 | 6 | 18 | 15 |
| 736.903 | 4 | 14 | 11 |
| 736.904 | 6 | 20 | 17 |



GODRONI

È DISPONIBILE A MAGAZZINO UN VASTO ASSORTIMENTO DI GODRONI

Knurls range available from warehouse



ART. G471



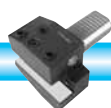
ART. G472



ART. G470



ART. G474

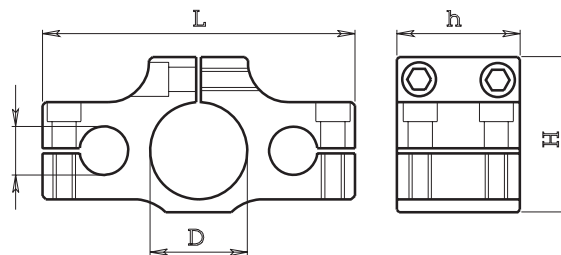




FLANGE PORTA BARRETTA Tipo 360

TOOLHOLDER FLANGE

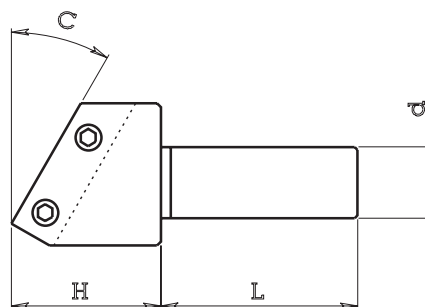
| Code | | | | | | machine |
|---------|----|----|-----|----|----|-------------------------|
| ART. | D | d | L | h | H | macchina |
| 360.101 | 30 | 15 | 98 | 38 | 48 | TRAUB A15-20-25 |
| 360.201 | 36 | 15 | 98 | 38 | 48 | SAIC B26 |
| 360.202 | 32 | 15 | 98 | 38 | 48 | GIORGI GM25-32 |
| 360.601 | 40 | 22 | 126 | 40 | 58 | TRAUB A36-42-60 TB42-60 |
| 360.801 | 42 | 22 | 126 | 40 | 58 | SAIC B45 |



SUPPORTINI FISSI PER FLANGIA Tipo 120 e Tipo 362

TOOLHOLDER

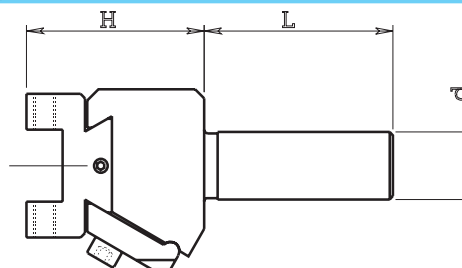
| Code | | | | | for flange |
|---------|-----|----|----|----|-----------------------------|
| ART. | C | d | L | H | per flangia art. |
| 120.202 | 0° | 15 | 60 | 18 | 360.101 - 360.201 - 360.202 |
| 120.212 | 8° | 15 | 60 | 18 | 360.101 - 360.201 - 360.202 |
| 120.232 | 30° | 15 | 60 | 29 | 360.101 - 360.201 - 360.202 |
| 120.246 | 45° | 15 | 60 | 42 | 360.101 - 360.201 - 360.202 |
| 362.601 | 0° | 22 | 85 | 24 | 360.601 - 360.801 |
| 362.615 | 15° | 22 | 85 | 27 | 360.601 - 360.801 |
| 362.630 | 30° | 22 | 85 | 40 | 360.601 - 360.801 |
| 362.645 | 45° | 22 | 85 | 55 | 360.601 - 360.801 |



SUPPORTINI REGISTRABILI PER FLANGIA Tipo 124 e Tipo 364

ADJUSTABLE TOOLHOLDER

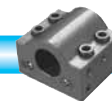
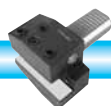
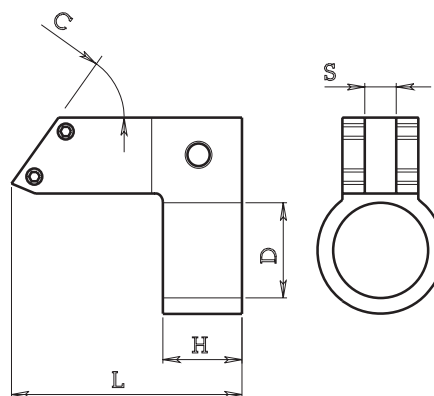
| Code | | | | for flange |
|---------|----|----|----|-----------------------------|
| ART. | d | L | H | per flangia art. |
| 124.202 | 15 | 60 | 40 | 360.101 - 360.201 - 360.202 |
| 364.601 | 22 | 85 | 40 | 360.601 - 360.801 |



PORTA UTENSILI A RITORNIRE Tipo 366

TOOLHOLDER

| Code | | | | | | machine |
|---------|-----|----|----|----|-------|-------------------------------|
| ART. | C | d | L | H | S | macchina |
| 366.030 | 30° | 23 | 36 | 25 | 8x8 | SAIC B26 (app. fora filetti) |
| 366.031 | 30° | 25 | 36 | 25 | 8x8 | GIORGI 25 (app. fora filetti) |
| 366.032 | 30° | 26 | 36 | 25 | 8x8 | ITS 26 |
| 366.100 | 0° | 30 | 70 | 26 | 8x8 | TRAUB A15-20-25 |
| 366.115 | 15° | 30 | 70 | 26 | 8x8 | TRAUB A15-20-25 |
| 366.130 | 30° | 30 | 75 | 26 | 8x8 | TRAUB A15-20-25 |
| 366.145 | 45° | 30 | 80 | 26 | 8x8 | TRAUB A15-20-25 |
| 366.215 | 15° | 36 | 70 | 27 | 10x10 | SAIC B26 |
| 366.245 | 45° | 36 | 80 | 27 | 10x10 | SAIC B26 |
| 366.615 | 15° | 40 | 80 | 32 | 10x10 | TRAUB A36-42-60 TB42-60 |
| 366.630 | 30° | 40 | 80 | 32 | 10x10 | TRAUB A36-42-60 TB42-60 |
| 366.645 | 45° | 40 | 90 | 32 | 10x10 | TRAUB A36-42-60 TB42-60 |
| 366.845 | 45° | 42 | 90 | 32 | 10x10 | SAIC B45 |

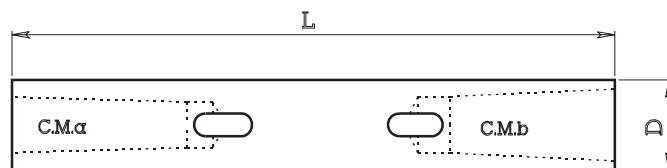




CANOTTI A DOPPIO CONO MORSE Tipo 372

DOUBLE MORSE TAPER SLEEVES

Per contropunta torni automatici
For automatic lathes tailstock



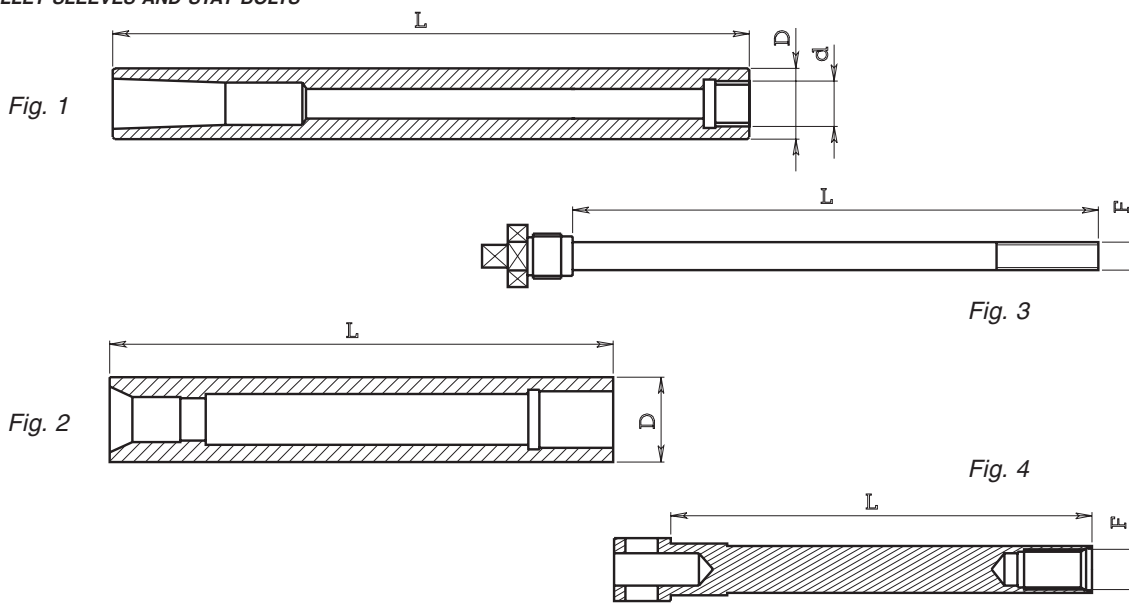
| Code | M.T.a | M.T.b | machine | | |
|---------|-------|-------|---------|-----|----------------------------|
| ART. | C.M.a | C.M.b | D | L | macchina |
| 372.112 | 1 | 2 | 30 | 200 | TRAUB A15-20-25 TD16-26-36 |
| 372.113 | 1 | 3 | 30 | 200 | TRAUB A15-20-25 TD16-26-36 |
| 372.123 | 2 | 3 | 30 | 200 | TRAUB A15-20-25 TD16-26-36 |
| 372.201 | 1 | 2 | 32 | 200 | GIORGI GM20-25-32 |
| 372.202 | 2 | 3 | 32 | 200 | GIORGI GM20-25-32 |
| 372.223 | 2 | 3 | 36 | 200 | SAIC B26 |

| Code | M.T.a | M.T.b | machine | | |
|---------|-------|-------|---------|-----|-------------------------|
| ART. | C.M.a | C.M.b | D | L | macchina |
| 372.623 | 2 | 3 | 40 | 270 | TRAUB A36-42-60 TB42-60 |
| 372.624 | 2 | 4 | 40 | 270 | TRAUB A36-42-60 TB42-60 |
| 372.634 | 3 | 4 | 40 | 270 | TRAUB A36-42-60 TB42-60 |
| 372.824 | 2 | 4 | 42 | 270 | SAIC B45 |
| 372.834 | 3 | 4 | 42 | 270 | SAIC B45 |

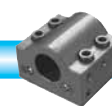
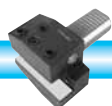
Art. 372112, 372201, 372623, 372634 e 372834 su richiesta (on request)

CANOTTI E TIRANTI Tipo 374 e Tipo 376

COLLET SLEEVES AND STAY-BOLTS



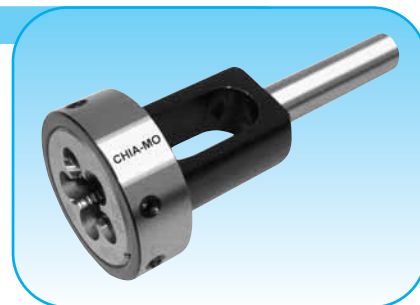
| Sleeve code | Fig. | | | | collet code | stay-boltcode | Fig. | machine | | | |
|--------------|------|---------|----|-----|-------------|---------------|------|---------|-----|-------------------------|-------------------|
| ART. canotto | Fig. | d | D | L | ART. pinza | ART. tirante | Fig. | F | L | macchina | funzione |
| 374.023 | 1 | 16x1 sx | 23 | 250 | 020.200 | 376.023 | 3 | 10MA | 184 | SAIC B26 | app. fora filetti |
| 374.025 | 1 | 16x1 sx | 25 | 225 | 020.200 | 376.025 | 3 | 10MA | 159 | GIORGI 25 | app. fora filetti |
| 374.026 | 1 | 16x1 sx | 26 | 225 | 020.200 | 376.026 | 3 | 10MA | 159 | ITS 26 | app. fora filetti |
| 374.030 | 2 | — | 30 | 230 | 018.020 | 376.030 | 4 | 13x1 | 190 | TRAUB A15-20-25 | app. fora filetti |
| 374.101 | 2 | — | 30 | 178 | 018.020 | 376.101 | 4 | 13x1 | 138 | TRAUB A15-20-25 | contropunta |
| 374.201 | 1 | 16x1 sx | 36 | 190 | 020.200 | 376.201 | 3 | 10MA | 125 | SAIC B26 | contropunta |
| 374.202 | 1 | 16x1 sx | 30 | 190 | 020.200 | 376.201 | 3 | 10MA | 125 | ITS 26 | contropunta |
| 374.203 | 1 | 16x1 sx | 32 | 190 | 020.200 | 376.201 | 3 | 10MA | 125 | GIORGI 32 | contropunta |
| 374.204 | 1 | 25x1.5 | 32 | 210 | 020.300 | 376.204 | 3 | 12MA | 126 | GIORGI 32 | contropunta |
| 374.601 | 2 | — | 40 | 268 | 018.046 | 376.601 | 4 | 23x1 | 202 | TRAUB A36-42-60 TB42-60 | contropunta |
| 374.801 | 1 | 25x1.5 | 42 | 250 | 020.300 | 376.801 | 3 | 12MA | 166 | SAIC B 45 | contropunta |
| 374.802 | 2 | — | 42 | 269 | 018.046 | 376.601 | 4 | 23X1 | 202 | SAIC B45 | contropunta |





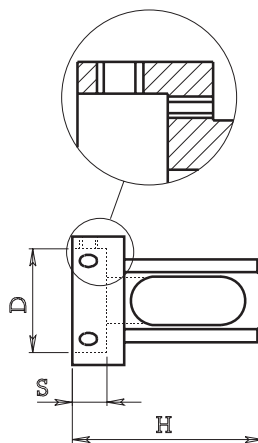
PORTA FILIERA SENZA GHIERA Tipo 380

DIE HOLDER WITHOUT NUT



Per torni automatici a fantina mobile
For sliding head-stock automatic lathes

| Code | | | | |
|----------|----|----|----|----|
| ART. | D | S | d | H |
| 380.116 | 16 | 5 | 6 | 39 |
| 380.116B | 16 | 5 | 8 | 39 |
| 380.120 | 20 | 5 | 6 | 42 |
| 380.120B | 20 | 5 | 8 | 42 |
| 380.120C | 20 | 7 | 6 | 42 |
| 380.120D | 20 | 7 | 8 | 42 |
| 380.125 | 25 | 9 | 8 | 50 |
| 380.125B | 25 | 9 | 10 | 50 |
| 380.130 | 30 | 11 | 8 | 56 |
| 380.130B | 30 | 11 | 10 | 56 |
| 380.135 | 35 | 12 | 10 | 56 |
| 380.135B | 35 | 12 | 8 | 56 |
| 380.138 | 38 | 10 | 12 | 56 |
| 380.138C | 38 | 14 | 12 | 56 |

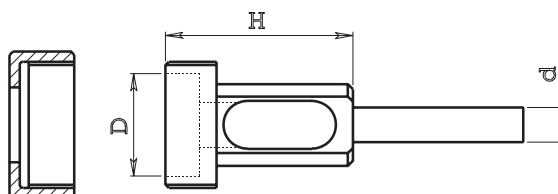


Questo porta filiera è adatto per filiere con fori frontali e laterali
Also for die with front and lateral holes

PORTA FILIERA CON GHIERA Tipo 380

DIE HOLDER WITH NUT

| Code | | | |
|----------|----|----|----|
| ART. | D | d | H |
| 380.616 | 16 | 6 | 39 |
| 380.616B | 16 | 8 | 39 |
| 380.620 | 20 | 6 | 42 |
| 380.620B | 20 | 8 | 42 |
| 380.625 | 25 | 8 | 50 |
| 380.625B | 25 | 10 | 50 |
| 380.630 | 30 | 8 | 56 |
| 380.630B | 30 | 10 | 56 |
| 380.635 | 35 | 10 | 56 |



Per torni automatici a fantina mobile
For sliding head-stock automatic lathes

| | |
|-----------|--|
| 380.616 1 | ghiera per art. 380.616 (nut for code 380.616) |
| 380.620 1 | ghiera per art. 380.620 (nut for code 380.620) |
| 380.625 1 | ghiera per art. 380.625 (nut for code 380.625) |
| 380.630 1 | ghiera per art. 380.630 (nut for code 380.630) |

PORTA FILIERA PER APPARECCHIO FORA FILETTI Tipo 382

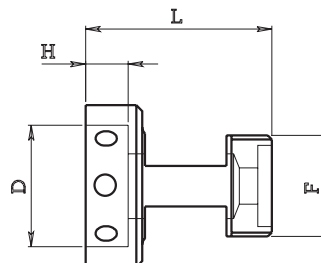
DIE HOLDER FOR DRILL-THREAD DEVICE

TRAUB A 15-20-25

| ART. | D | H | L | F |
|---------|----|----|----|-----------|
| 382.112 | 12 | 4 | 32 | 25x1.5 sx |
| 382.116 | 16 | 5 | 32 | 25x1.5 sx |
| 382.120 | 20 | 7 | 32 | 25x1.5 sx |
| 382.125 | 25 | 9 | 32 | 25x1.5 sx |
| 382.130 | 30 | 11 | 32 | 25x1.5 sx |
| 382.138 | 38 | 14 | 32 | 25x1.5 sx |

| ART. | D | H | L | F |
|---------|----|----|----|-----------|
| 382.212 | 12 | 4 | 46 | 25x1.5 sx |
| 382.216 | 16 | 5 | 46 | 25x1.5 sx |
| 382.220 | 20 | 7 | 46 | 25x1.5 sx |
| 382.225 | 25 | 9 | 46 | 25x1.5 sx |
| 382.230 | 30 | 11 | 46 | 25x1.5 sx |
| 382.238 | 38 | 14 | 46 | 25x1.5 sx |

| ART. | D | H | L | F |
|---------|----|----|----|-----------|
| 382.312 | 12 | 4 | 62 | 25x1.5 sx |
| 382.316 | 16 | 5 | 62 | 25x1.5 sx |
| 382.320 | 20 | 7 | 62 | 25x1.5 sx |
| 382.325 | 25 | 9 | 62 | 25x1.5 sx |
| 382.330 | 30 | 11 | 62 | 25x1.5 sx |
| 382.338 | 38 | 14 | 62 | 25x1.5 sx |

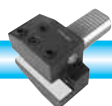
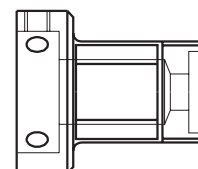


SAIC B26-30 / ITS 26 / GIORGI 20-25-30

| ART. | D | H | L | F |
|---------|----|----|----|-----------|
| 382.412 | 12 | 4 | 32 | 26x1.5 sx |
| 382.416 | 16 | 5 | 32 | 26x1.5 sx |
| 382.420 | 20 | 7 | 32 | 26x1.5 sx |
| 382.425 | 25 | 9 | 32 | 26x1.5 sx |
| 382.430 | 30 | 11 | 32 | 26x1.5 sx |
| 382.438 | 38 | 14 | 32 | 26x1.5 sx |

| ART. | D | H | L | F |
|---------|----|----|----|-----------|
| 382.512 | 12 | 4 | 46 | 26x1.5 sx |
| 382.516 | 16 | 5 | 46 | 26x1.5 sx |
| 382.520 | 20 | 7 | 46 | 26x1.5 sx |
| 382.525 | 25 | 9 | 46 | 26x1.5 sx |
| 382.530 | 30 | 11 | 46 | 26x1.5 sx |
| 382.538 | 38 | 14 | 46 | 26x1.5 sx |

| ART. | D | H | L | F |
|---------|----|----|----|-----------|
| 382.612 | 12 | 4 | 62 | 26x1.5 sx |
| 382.616 | 16 | 5 | 62 | 26x1.5 sx |
| 382.620 | 20 | 7 | 62 | 26x1.5 sx |
| 382.625 | 25 | 9 | 62 | 26x1.5 sx |
| 382.630 | 30 | 11 | 62 | 26x1.5 sx |
| 382.638 | 38 | 14 | 62 | 26x1.5 sx |

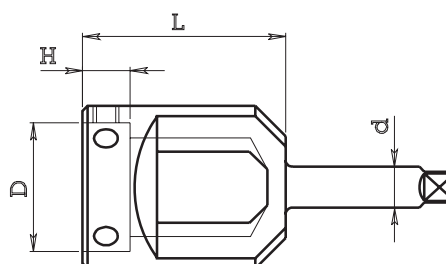




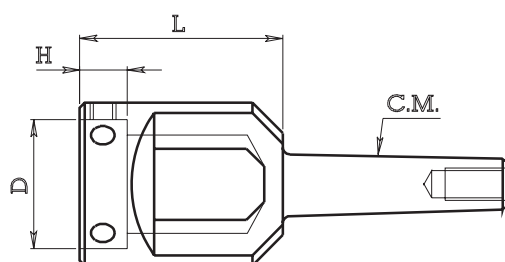
PORTA FILIERA PER MASCHIATRICI E TRAPANI Tipo 384

DIE HOLDERS FOR TAPPING AND DRILLING MACHINES

| Code | | | | |
|----------|----|----|----|----|
| ART. | D | H | d | L |
| 384.116 | 16 | 5 | 9 | 60 |
| 384.120 | 20 | 7 | 9 | 60 |
| 384.125 | 25 | 9 | 9 | 60 |
| 384.130 | 30 | 11 | 9 | 60 |
| 384.138 | 38 | 10 | 12 | 60 |
| 384.138B | 38 | 14 | 12 | 60 |
| 384.145 | 45 | 14 | 15 | 66 |
| 384.145B | 45 | 18 | 15 | 66 |



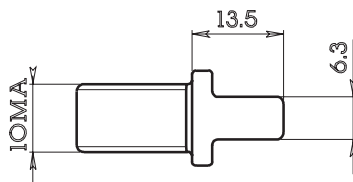
| Code | | | | |
|----------|----|----|----|-------------------|
| ART. | D | H | L | cono morse (M.T.) |
| 384.716 | 16 | 5 | 60 | C.M.2 |
| 384.720 | 20 | 7 | 60 | C.M.2 |
| 384.725 | 25 | 9 | 60 | C.M.2 |
| 384.730 | 30 | 11 | 60 | C.M.2 |
| 384.738 | 38 | 10 | 60 | C.M.2 |
| 384.738B | 38 | 14 | 60 | C.M.2 |
| 384.745 | 45 | 14 | 66 | C.M.2 |
| 384.745B | 45 | 18 | 66 | C.M.2 |



CODULO DI TRASCINAMENTO PER CONO MORSE 2

DRIVING SHAFT PIN FOR MT2

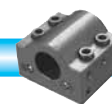
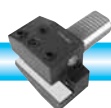
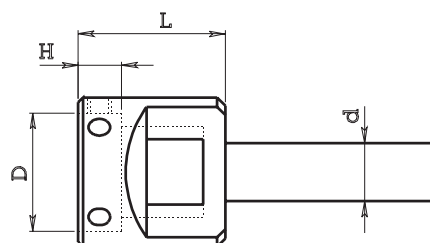
ART. 164.992
code 164.992



PORTA FILIERA PER TORNI PLURIMANDRINO Tipo 380

DIE HOLDER FOR MULTISPINDLE LATHES

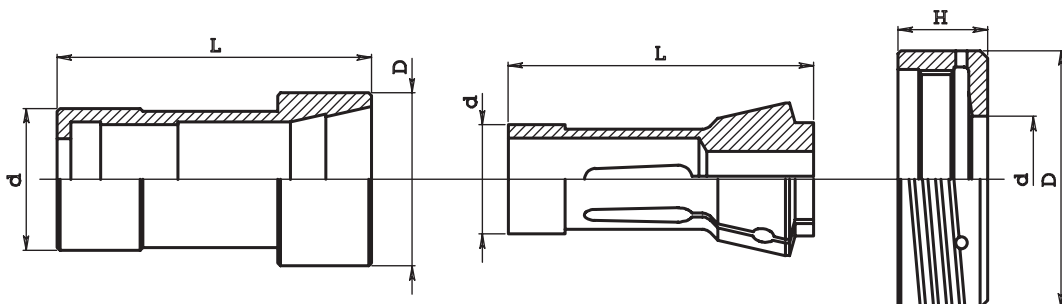
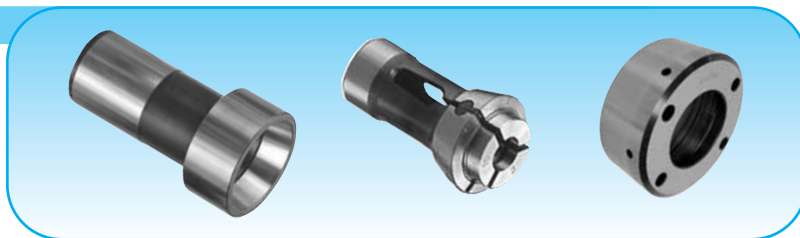
| Code | | | | |
|----------|----|----|----|----|
| ART. | D | H | d | L |
| 380.525 | 25 | 9 | 20 | 35 |
| 380.530 | 30 | 11 | 20 | 35 |
| 380.538 | 38 | 10 | 20 | 35 |
| 380.538B | 38 | 14 | 20 | 40 |
| 380.545 | 45 | 14 | 20 | 40 |
| 380.545B | 45 | 18 | 20 | 40 |
| 380.550 | 50 | 16 | 20 | 40 |
| 380.555B | 55 | 16 | 20 | 40 |





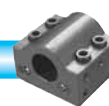
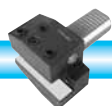
CANOTTI Tipo 066 e GHIERE Tipo 072
COLLET HOLDER SLEEVES AND CLAMPING NUTS

Per pinze tipo 010
For collet 010 model



FILETTO (Thread)
(A) = sinistro (left)
(B) = SG 30°- 3°
(C) = fori fissaggio (fixture holes)

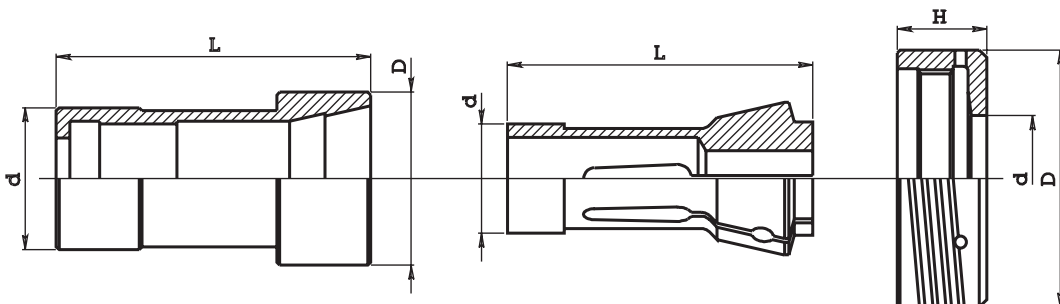
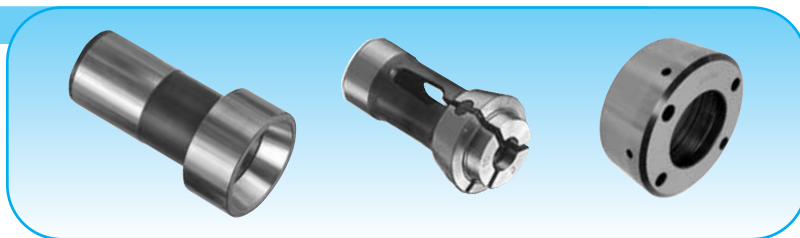
| collet holder sleeve | | | | collet | | | nut | | | | ins. thr. | machine |
|----------------------|----|--------|-------|---------|----|------|----------|------|------|------|--------------|----------------------------|
| CANOTTO | | | | PINZA | | | GHIERA | | | | filetto int. | MACCHINA |
| ART. | d | D | L | ART. | d | L | ART. | D | d | H | | |
| 066.031 | 20 | 24 | 62 | 010.025 | 14 | 46 | — | — | — | — | — | BECHLER A 10 |
| 066.054 | 63 | 75 | 165 | 010.121 | 52 | 92 | — | — | — | — | — | BODEM P 46 |
| 066.110 | 60 | 68 | 95 | 010.117 | 48 | 94 | — | — | — | — | — | CANAVESE CG 40 |
| 066.130 | 38 | 48 | 79 | 010.084 | 32 | 75 | 072.130 | 73.5 | 35 | 40 | 61x3 | CASER TA 26 |
| 066.130A | 38 | 52 | 79 | 010.084 | 32 | 75 | 072.130 | 73.5 | 35 | 40 | 61x3 | CASER TA 26 |
| 066.140 | 42 | 52 | 88 | 010.093 | 35 | 80 | 072.140 | 75 | 39 | 39 | 64x3 | CASER TA 30 |
| 066.141 | 42 | 52 | 88 | 010.084 | 32 | 75 | 072.141 | 75 | 35 | 39 | 64x3 | CASER TA 30 (riduz.) |
| 066.174R1 | 65 | 80 | 120 | 010.117 | 48 | 94 | — | — | — | — | — | DAR 46 |
| 066.210 | 20 | 24 | 86 | 010.029 | 15 | 64 | 072.210 | 38 | 15.5 | 23 | 32x1.5 | FEINLER FA 10 |
| 066.220 | 27 | 32(37) | 61 | 010.051 | 22 | 55 | 072.220 | 46 | 22.5 | 26 | 40x1.5 | FEINLER FA 15 |
| 066.224 | 18 | 24 | 97.8 | 010.029 | 15 | 64 | — | — | — | — | — | GAUTHIER GM 12 |
| 066.231 | 37 | 40.7 | 89.5 | 010.064 | 25 | 77 | — | — | — | — | — | GILDEM. SPRINT 20 |
| 066.231B | 26 | 30.56 | 76 | 010.042 | 20 | 54 | — | — | — | — | — | GILDEMEISTER GD16 |
| 066.233K1 | 57 | 65 | 100.5 | 010.117 | 48 | 94 | — | — | — | — | — | GILDEM. SPRINTER 42 |
| 066.233K2 | 57 | 65 | 110.5 | 010.117 | 48 | 94 | — | — | — | — | — | GILD. SPRINTER 42 (contr.) |
| 066.238 | 34 | 46 | 82 | 010.070 | 28 | 70 | 072.238 | 72 | 29 | 41 | 60x2.5 (B) | GIORGI GM 20 |
| 066.240 | 37 | 50 | 92 | 010.084 | 32 | 75 | 072.240 | 79 | 35 | 42 | 70x3 (B) | GIORGI GM 25 |
| 066.250 | 44 | 56 | 92.2 | 010.102 | 38 | 86 | 072.250 | 79 | 42 | 42 | 70x3 (B) | GIORGI GM 32 |
| 066.251 | 44 | 56 | 92.2 | 010.084 | 32 | 75 | 072.240 | 79 | 35 | 42 | 70x3 (B) | GIORGI GM 32 (riduz.) |
| 066.251R | 44 | 56 | 92.2 | 010.093 | 35 | 80 | 072.245 | 79 | 39 | 42 | 70x3 (B) | GIORGI GM 30 |
| 066.263 | 44 | 46(48) | 100.5 | 010.084 | 32 | 75 | — | — | — | — | — | HANWHA ML26 |
| 066.310 | 30 | 32 | 64 | 010.042 | 20 | 54 | 072.310 | 45 | 20 | 41 | 40x1.5 (A-B) | INDEX ON-OR 12 |
| 066.315 | 30 | 38 | 63.5 | 010.060 | 25 | 54 | 072.315 | 62 | 24 | 23 | 52x2 (A-B) | INDEX DG 12 |
| 066.316 | 30 | 38 | 63.5 | 010.051 | 22 | 55 | 072.316 | 62 | 22 | 23 | 52x2 (A-B) | INDEX DG 12 (riduz.) |
| 066.320 | 28 | 38 | 68 | 010.051 | 22 | 55 | 072.320 | 64.5 | 22 | 31.5 | 52x2 (A-B) | INDEX 12 |
| 066.321 | 28 | 38 | 68 | 010.042 | 20 | 54 | 072.321 | 64.5 | 20 | 31.5 | 52x2 (A-B) | INDEX 12 (riduz.) |
| 066.330 | 34 | 46 | 82 | 010.070 | 28 | 70 | 072.330 | 68 | 29 | 31.5 | 58x2 (A-B) | INDEX 18 |
| 066.331 | 34 | 46 | 82 | 010.051 | 22 | 55 | 072.331 | 68 | 22 | 31.5 | 58x2 (A-B) | INDEX 18 (riduz.) |
| 066.335 | 34 | 48 | 82 | 010.070 | 28 | 70 | 072.335 | 73 | 29 | 34 | 63x2 (A-B) | INDEX C19 |
| 066.340 | 42 | 52 | 82 | 010.092 | 35 | 70 | 072.340 | 72 | 35 | 31.5 | 63x2 (A-B) | INDEX 25 |
| 066.341 | 42 | 52 | 82 | 010.070 | 28 | 70 | 072.341 | 72 | 29 | 31.5 | 63x2 (A-B) | INDEX 25 (riduz.) |
| 066.341B | 42 | 52 | 82 | 010.067 | 27 | 72.7 | 072.341B | 72 | 31 | 31.5 | 63x2 (A-B) | INDEX 25 (riduz.) |
| 066.343MS25 | 30 | 38(39) | 73 | 010.066 | 25 | 65 | — | — | — | — | — | INDEX MS25 (man. ripresa) |
| 066.350 | 42 | 58 | 92 | 010.093 | 35 | 80 | 072.350 | 88 | 39 | 38.5 | 74x2 (A-B) | INDEX 24 |
| 066.351 | 42 | 58 | 92 | 010.070 | 28 | 70 | 072.351 | 88 | 29 | 38.5 | 74x2 (A-B) | INDEX 24 (riduz.) |
| 066.352 | 42 | 58 | 92 | 010.092 | 35 | 70 | 072.352 | 88 | 35 | 38.5 | 74x2 (A-B) | INDEX 24 (riduz.) |
| 066.350 | 42 | 58 | 92 | 010.093 | 35 | 80 | 072.355 | 88 | 39 | 38.5 | 74x2 (A-B) | INDEX B30 |
| 066.350 | 42 | 58 | 92 | 010.093 | 35 | 80 | 072.345 | 84.5 | 39 | 35 | 74x2 (A-B) | INDEX C29 |
| 066.351 | 42 | 58 | 92 | 010.070 | 28 | 70 | 072.346 | 84.5 | 29 | 35 | 74x2 (A-B) | INDEX C29 (riduz.) |
| 066.352 | 42 | 58 | 92 | 010.092 | 35 | 70 | 072.346B | 84.5 | 35 | 35 | 74x2 (A-B) | INDEX C29 (riduz.) |
| 066.350 | 42 | 58 | 92 | 010.093 | 35 | 80 | 072.343 | 83 | 39 | 13 | — | INDEX E - ER 25-26 |





CANOTTI Tipo 066 e GHIERE Tipo 072
COLLET HOLDER SLEEVES AND CLAMPING NUTS

Per pinze tipo 010
For collet 010 model



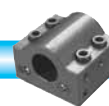
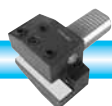
FILETTO (Thread)
(A) = sinistro (left)
(B) = SG 30°- 3°
(C) = fori fissaggio
(fixture holes)

| collet holder sleeve | | | | collet | | | nut | | | | ins. thr. | machine |
|----------------------|------|----|-------|---------|----|-----|-------------|-------|------|------|---------------|---------------------------|
| CANOTTO | | | | PINZA | | | GHIERA | | | | filetto int. | MACCHINA |
| ART. | d | D | L | ART. | d | L | ART. | D | d | H | | |
| — | — | — | — | 010.084 | 35 | 75 | 072.343R | 83 | 35 | 13 | — | INDEX E - ER 25-26 |
| 066.360 | 56 | 70 | 104 | 010.117 | 48 | 94 | 072.360 | 97 | 51 | 38.5 | 85x2 (A-B) | INDEX 36 - B42 |
| 066.361 | 56 | 70 | 104 | 010.093 | 35 | 80 | 072.361 | 97 | 39 | 38.5 | 85x2 (A-B) | INDEX 36 - B42 (riduz.) |
| 066.361B | 56 | 70 | 104 | 010.084 | 32 | 75 | — | — | — | — | — | INDEX 36 - B42 (riduz.) |
| 066.360 | 56 | 70 | 104 | 010.117 | 48 | 94 | 072.363 | 102 | 51 | 30 | 85x2 (A-B) | INDEX E42 - ER42 |
| 066.361 | 56 | 70 | 104 | 010.093 | 35 | 80 | 072.364 | 102 | 39 | 30 | 85x2 (A-B) | INDEX E42 - ER42 (riduz.) |
| 066.370 | 74 | 94 | 108 | 010.133 | 66 | 110 | 072.370 | 117 | 74.5 | 41.5 | 108x2 (A-B) | INDEX 52 |
| 066.371 | 74 | 94 | 108 | 010.117 | 48 | 94 | 072.371 | 117 | 51 | 41.5 | 108x2 (A-B) | INDEX 52 (riduz.) |
| 066.380 | 74 | 94 | 120 | 010.133 | 66 | 110 | 072.380 | 122 | 74.5 | 34 | 108x2 (A-B) | INDEX B60 |
| 066.381 | 74 | 94 | 120 | 010.117 | 48 | 94 | 072.381 | 122 | 51 | 34 | 108x2 (A-B) | INDEX B60 (riduz.) |
| 066.380 | 74 | 94 | 120 | 010.133 | 66 | 110 | 072.385 | 136 | 74.5 | 16 | (C) | INDEX E60 - ER60 |
| 066.381 | 74 | 94 | 120 | 010.117 | 48 | 94 | 072.386 | 136 | 51 | 16 | (C) | INDEX E60 - ER60 (riduz.) |
| 066.240 | 37 | 50 | 92 | 010.084 | 32 | 75 | 072.420 | 74 | 35 | 39 | 61x3 | ITS TCA 301 (1) |
| 066.240 | 37 | 50 | 92 | 010.084 | 32 | 75 | 072.420B | 74 | 35 | 36 | 61x3 | ITS 26 |
| 066.430 | 58.8 | 70 | 140 | 010.117 | 48 | 94 | 072.430 | 108 | 52 | 34.5 | 92x2 | ITS TCA 42 |
| 066.450 | 80 | 92 | 137 | 010.133 | 66 | 110 | 072.450 | 124 | 74.5 | 38 | 110x2 | ITS 60 |
| 066.451 | 80 | 92 | 137 | 010.117 | 48 | 94 | 072.451 | 124 | 51 | 38 | 110x2 | ITS 60 (riduz.) |
| 066.520 | 58 | 63 | 116.5 | 010.117 | 48 | 94 | 072.520 | 92.5 | 51 | 22 | 75x2 (A-B) | LOGOS LE 42 |
| 066.525 | 69 | 75 | 127 | 010.130 | 60 | 102 | 072.525 | 105.5 | 61 | 22 | 85x2 (A-B) | LOGOG LE 52 |
| 066.564SA32 | 53 | 58 | 132.2 | 010.101 | 37 | 92 | 072.564SA32 | 82 | 41 | 36 | 70x1.5 | NEXTURN SA32 |
| 066.910 | 28 | 40 | 70 | 010.051 | 22 | 55 | — | — | — | — | — | MUPEN 15 |
| 066.572 | 21 | 25 | 55 | 010.030 | 15 | 47 | — | — | — | — | — | PETERMAN P7R |
| 066.572R | 21 | 25 | 55 | 010.014 | 10 | 47 | — | — | — | — | — | PETERMAN P7R (riduz.) |
| 066.577 | 30 | 38 | 98 | 010.053 | 22 | 66 | — | — | — | — | — | PETERMAN P16 - P16R |
| 066.240 | 37 | 50 | 92 | 010.084 | 32 | 75 | 072.600 | 77 | 35 | 38 | 68x2 | SAIC B26 (1) |
| 066.610 | 42 | 55 | 96 | 010.093 | 35 | 80 | 072.610 | 79 | 39 | 39 | 66x3 | SAIC B30 |
| 066.611 | 42 | 55 | 96 | 010.084 | 32 | 75 | 072.611 | 79 | 35 | 39 | 66x3 | SAIC B30 (riduz.) |
| 066.620 | 44 | 55 | 97 | 010.102 | 38 | 86 | 072.620 | 80 | 39 | 42 | 72x2 | SAIC A30 - A32 |
| 066.621 | 44 | 55 | 97 | 010.084 | 32 | 75 | 072.621 | 80 | 35 | 42 | 72x2 | SAIC A30 - A32 (riduz.) |
| 066.640 | 58 | 70 | 130 | 010.117 | 48 | 94 | 072.640 | 103 | 51 | 50 | 88x4 | SAIC B45 |
| 066.670 | 40 | 50 | 84 | 010.084 | 32 | 75 | — | — | — | — | — | SKODA 20 |
| 066.791 | 12 | 15 | 66 | 010.006 | 8 | 42 | — | — | — | — | — | STROHMM4-5 |
| 066.210 | 20 | 24 | 86 | 010.029 | 15 | 64 | 072.730 | 34 | 16 | 20 | 30x1.5 (B) | STROHM 105-125 |
| 066.735 | 35 | 40 | 100 | 010.064 | 25 | 77 | 072.741 | 63 | 28 | 40 | 56x1.5 (B) | STROHM 205 |
| 066.740 | 38 | 45 | 110 | 010.078 | 30 | 80 | 072.740 | 63 | 35 | 40 | 56x1.5 (B) | STROHM 255 |
| 066.741 | 38 | 45 | 110 | 010.064 | 25 | 77 | 072.741 | 63 | 28 | 40 | 56x1.5 (B) | STROHM 255 (riduz.) |
| 066.756R | 65 | 76 | 110 | 010.117 | 48 | 94 | 072.756R | 115 | 51 | 42 | 100x2.5 (A-B) | TAREX L52 (riduz.) |

(1) La ghiera 072.420 viene anche montata sul SAIC B 26 quando su detta macchina si ha l'albero con guida cilindrica

Le molle per i canotti sono descritte a pag. 175

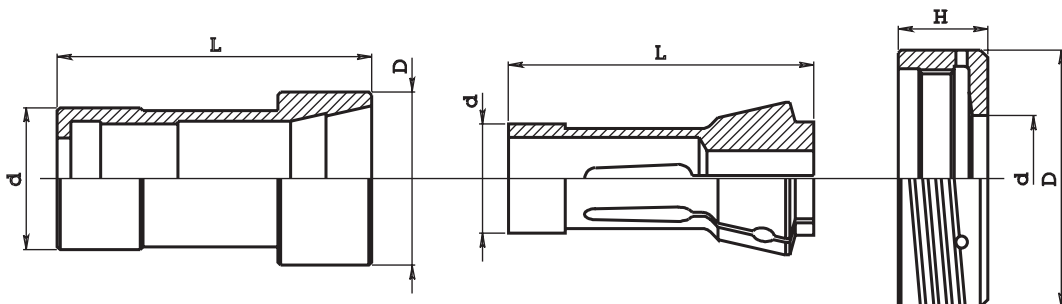
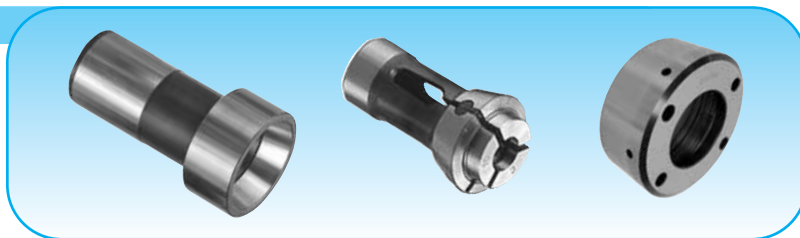
Code 072.420 suites machine SAIC B 26 with cylindrical guide spindle shaft springs for collet holder sleeves see at page 175





CANOTTI Tipo 066 e GHIERE Tipo 072
COLLET HOLDER SLEEVES AND CLAMPING NUTS

Per pinze tipo 010
For collet 010 model

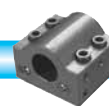
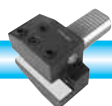


FILETTO (Thread)
(A) = sinistro (left)
(B) = SG 30°-3°
(C) = fori fissaggio (fixture holes)

| collet holder sleeve | | | | collet | | | nut | | | | ins. thr. | machine |
|----------------------|----|--------|-----|---------|----|-----|----------|-----|------|------|--------------|--------------------------|
| CANOTTO | | | | PINZA | | | GHIERA | | | | filetto int. | MACCHINA |
| ART. | d | D | L | ART. | d | L | ART. | D | d | H | | |
| 066.788 | 42 | 44 | 105 | 010.074 | 30 | 65 | — | — | — | — | — | TORNOS ENC 262-264 |
| 066.788B | 38 | 44 | 110 | 010.074 | 30 | 65 | — | — | — | — | — | TORNOS DECO 2000 |
| 066.788C | 38 | 42 | 110 | 010.074 | 30 | 65 | — | — | — | — | — | TORNOS DECO 2000 |
| 066.789 | 30 | 30 | 69 | 010.042 | 20 | 54 | — | — | — | — | — | TORNOS ENC 164 |
| 066.790 | 15 | 15 | 51 | 010.006 | 8 | 42 | — | — | — | — | — | TORNOS T4 |
| 066.791 | 12 | 15 | 66 | 010.006 | 8 | 42 | — | — | — | — | — | TORNOS M4 |
| 066.794 | 22 | 26 | 90 | 010.029 | 15 | 64 | 072.794 | 37 | 16.5 | 17 | 33x1.25 (A) | TORNOS R10 |
| 066.800 | 28 | 38 | 70 | 010.051 | 22 | 55 | — | — | — | — | 52x3 | TRAUB TC15 |
| 066.810 | 33 | 33 | 52 | 010.051 | 22 | 55 | 072.810 | 53 | 22 | 45 | 43.5x2 | TRAUB A 15 |
| 066.820 | 34 | 42 | 67 | 010.070 | 28 | 70 | 072.820 | 63 | 29 | 39 | 52x3 | TRAUB A 20 |
| 066.821 | 34 | 42 | 67 | 010.051 | 22 | 55 | 072.821 | 63 | 22 | 39 | 52x3 | TRAUB A 20 (riduz.) |
| 066.830 | 37 | 52 | 96 | 010.084 | 32 | 75 | 072.830 | 72 | 35 | 39 | 62x2.5 | TRAUB A 25 |
| 066.831 | 37 | 52 | 96 | 010.051 | 22 | 55 | 072.831 | 72 | 22 | 39 | 62x2.5 | TRAUB A 25 (riduz.) |
| 066.850 | 40 | 52 | 96 | 010.084 | 32 | 75 | 072.830 | 72 | 35 | 39 | 62x2.5 | TRAUB A 26 |
| 066.860 | 52 | 63 | 116 | 010.111 | 42 | 94 | — | — | — | — | — | TRAUB A 36 |
| 066.870 | 54 | 68(75) | 114 | 010.117 | 48 | 94 | 072.870 | 91 | 51 | 46 | 80x3 | TRAUB A 42 |
| 066.871 | 54 | 68(75) | 114 | 010.084 | 32 | 75 | 072.871 | 91 | 35 | 46 | 80x3 | TRAUB A 42 (riduz.) |
| 066.872 | 60 | 70 | 135 | 010.117 | 48 | 94 | 072.872 | 130 | 51 | 23 | (C) | TRAUB TNS 42 |
| 066.872R | 60 | 70 | 135 | 010.121 | 52 | 92 | 072.872R | 130 | 55 | 23 | (C) | TRAUB TNS 42 |
| 066.873 | 54 | 74 | 115 | 010.117 | 48 | 94 | — | — | — | — | — | TRAUB TG 42/110 |
| 066.880 | 74 | 86(93) | 114 | 010.133 | 66 | 110 | 072.880 | 105 | 74.5 | 44.5 | 98x3 | TRAUB A 60 |
| 066.881 | 74 | 86(93) | 114 | 010.117 | 48 | 94 | 072.881 | 105 | 51 | 44.5 | 98x3 | TRAUB A 60 (riduz.) |
| — | — | — | — | 010.084 | 32 | 75 | 072.881R | 105 | 35 | 44.5 | 98x3 | TRAUB A 60 (riduz.) |
| 066.885 | 75 | 95 | 138 | 010.133 | 66 | 110 | 072.885 | 140 | 74.5 | 22 | (C) | TRAUB TNF 60/140 |
| 066.907 | 25 | 26.85 | 76 | 010.042 | 20 | 54 | — | — | — | — | — | TRAUB TNL 12/7 |
| 066.908 | 30 | 35 | 85 | 010.063 | 25 | 65 | — | — | — | — | — | TRAUB TNL 16 |
| 066.910 | 28 | 40 | 70 | 010.051 | 22 | 55 | — | — | — | — | — | TRAUB TD 16 |
| 066.920 | 40 | 54 | 95 | 010.084 | 32 | 75 | 072.920 | 78 | 35 | 40 | 70x3 | TRAUB TD 26 (2) |
| 066.920 | 40 | 54 | 95 | 010.084 | 32 | 75 | 072.920B | 78 | 35 | 40 | 70x3 | TRAUB TD 26 (3) |
| 066.930 | 50 | 68 | 115 | 010.111 | 42 | 94 | 072.930 | 86 | 43.5 | 40 | 80x3 | TRAUB TD 36 (2) |
| 066.930 | 50 | 68 | 115 | 010.111 | 42 | 94 | 072.930B | 86 | 43.5 | 40 | 80x3 | TRAUB TD 36 (3) |
| 066.931 | 50 | 68 | 115 | 010.084 | 32 | 75 | 072.931 | 86 | 35 | 40 | 80x3 | TRAUB TD 36 (riduz.) (2) |
| 066.931 | 50 | 68 | 115 | 010.084 | 32 | 75 | 072.931B | 86 | 35 | 40 | 80x3 | TRAUB TD 36 (riduz.) (3) |
| 066.870 | 54 | 68(75) | 114 | 010.117 | 48 | 94 | 072.870 | 91 | 51 | 46 | 80x3 | TRAUB TB 42 |
| 066.871 | 54 | 68(75) | 114 | 010.084 | 32 | 94 | 072.871 | 91 | 35 | 46 | 80x3 | TRAUB TB 42 (riduz.) |
| 066.950 | 74 | 86(93) | 138 | 010.133 | 66 | 110 | 072.880 | 105 | 74.5 | 44.5 | 98x3 | TRAUB TB 60 |
| 066.951 | 74 | 86(93) | 138 | 010.117 | 48 | 94 | 072.881 | 105 | 51 | 44.5 | 98x3 | TRAUB TB 60 (riduz.) |
| 066.952 | 82 | 95 | 138 | 010.133 | 66 | 110 | — | — | — | — | — | TRAUB TF 60 |

(2) Macchine costruite fino al 1976
For machines up to 1976

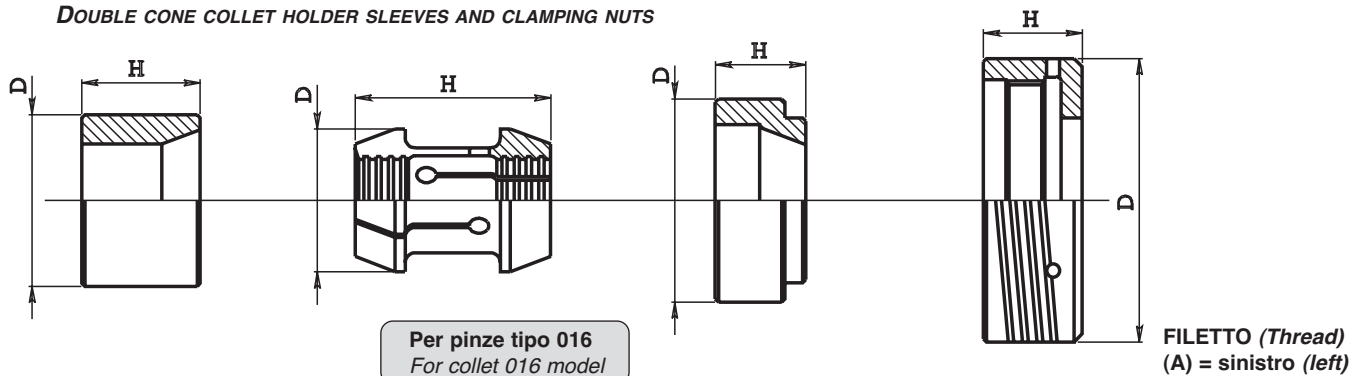
(3) Macchine costruite dopo il 1976
For machines after 1976





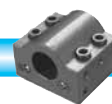
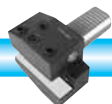
CANOTTI Tipo 068 e GHIERE Tipo 074

DOUBLE CONE COLLET HOLDER SLEEVES AND CLAMPING NUTS



| front collet holder | | | back collet holder | | | nut | | | | collet | | | machine |
|---------------------|----|----|--------------------|--------|-----|-------------|------|------|--------------|---------|------|-----|---------------------|
| CANOTTO ANT. | | | CANOTTO POST. | | | GHIERA | | | | PINZA | | | MACCHINA |
| ART. | D | H | ART. | D | H | ART. | D | H | filetto int. | ART. | D | H | |
| — | — | — | 068.044 | 104 | 62 | 074.044 | 152 | 54 | 128x1.5 | 016.070 | 90 | 100 | BIGLIA 110-131 |
| — | — | — | 068.044R | 104 | 62 | 074.044R | 152 | 54 | 128x1.5 | 016.043 | 60 | 80 | BIGLIA 110-131 |
| — | — | — | 068.045 | 104 | 62 | 074.045 | 152 | 54 | 128x1.5 | 016.056 | 69.5 | 100 | BIGLIA 110-131 |
| — | — | — | 068.045R | 104 | 62 | 074.045R | 152 | 54 | 128x1.5 | 016.057 | 71.6 | 100 | BIGLIA 110-131 |
| 068.130A | 48 | 27 | 068.130P | 38 | 43 | 074.130 | 73.5 | 40 | 61x3 | 016.024 | 34 | 56 | CASER TA 26 |
| 068.130AB | 52 | 27 | 068.130P | 38 | 43 | 074.130 | 73.5 | 40 | 61x3 | 016.024 | 34 | 56 | CASER TA 26 |
| 068.132A | 48 | 27 | 068.132P | 38 | 24 | 074.130 | 73.5 | 40 | 61x3 | 016.052 | 34.5 | 74 | CASER TA 26 |
| 068.132AB | 52 | 27 | 068.132P | 38 | 24 | 074.130 | 73.5 | 40 | 61x3 | 016.052 | 34.5 | 74 | CASER TA 26 |
| 068.141A | 52 | 40 | 068.141P | 42 | 36 | 074.140 | 75 | 39 | 64x3 | 016.052 | 34.5 | 74 | CASER TA 30 |
| 068.160A | 84 | 36 | 068.160P | 60 | 103 | 074.160 | 108 | 53 | 98x3 | 016.051 | 70 | 80 | CASER TA 50 |
| 068.161A | 84 | 36 | 068.161P | 60 | 103 | 074.160 | 108 | 53 | 98x3 | 016.043 | 60 | 80 | CASER TA 50 riduz. |
| 068.240A | 50 | 37 | 068.240P | 37 | 55 | 074.240 | 79 | 42 | 70x3 (A) | 016.024 | 34 | 56 | GIORGI GM 25 |
| 068.242A | 50 | 37 | 068.242P | 37 | 38 | 074.240 | 79 | 42 | 70x3 (A) | 016.052 | 34.5 | 74 | GIORGI GM 25 |
| 068.250A | 56 | 36 | 068.250P | 44 | 43 | 072.250 | 79 | 42 | 70x3 (A) | 016.053 | 43 | 84 | GIORGI GM 32 |
| 068.251A | 56 | 42 | 068.251P | 44 | 39 | 072.250 | 79 | 42 | 70x3 (A) | 016.052 | 34.5 | 74 | GIORGI GM 32 riduz. |
| 068.252A | 56 | 42 | 068.252P | 44 | 56 | 072.250 | 79 | 42 | 70x3 (A) | 016.024 | 34 | 56 | GIORGI GM 32 riduz. |
| 068.240A | 50 | 37 | 068.240P | 37 | 55 | 074.420 (1) | 74 | 39 | 61x3 | 016.024 | 34 | 56 | ITS 26 (1) |
| 068.242A | 50 | 37 | 068.242P | 37 | 38 | 074.420 (1) | 74 | 39 | 61x3 | 016.052 | 34.5 | 74 | ITS 26 (1) |
| 068.240A | 50 | 37 | 068.240P | 37 | 55 | 074.600 | 77 | 38 | 68x3 | 016.024 | 34 | 56 | SAIC B 26 (1) |
| 068.242A | 50 | 37 | 068.242P | 37 | 38 | 074.600 | 77 | 38 | 68x3 | 016.052 | 34.5 | 74 | SAIC B 26 (1) |
| 068.610A | 55 | 37 | 068.610P | 42 | 39 | 074.610 | 79 | 39 | 66x3 | 016.033 | 40.5 | 75 | SAIC B 30 |
| 068.611A | 55 | 37 | 068.611P | 42 | 39 | 074.610 | 79 | 39 | 66x3 | 016.052 | 34.5 | 74 | SAIC B 30 riduz. |
| 068.610A | 55 | 37 | 068.610P | 42 | 39 | 074.620 | 80 | 39.5 | 72x2 | 016.033 | 40.5 | 75 | SAIC A 30-32 |
| 068.611A | 55 | 37 | 068.611P | 42 | 39 | 074.620 | 80 | 39.5 | 72x2 | 016.052 | 34.5 | 74 | SAIC A 30-32 riduz. |
| 068.640A | 70 | 30 | 068.640P | 58(68) | 84 | 074.640 | 103 | 50 | 88x4 | 016.043 | 60 | 80 | SAIC B 45 |
| - (2) - | — | — | 068.810P | 33 | 15 | 074.810 | 52 | 45 | 43.5x2 | 016.054 | 26 | 55 | TRAUB A 15 |
| 068.821A | 42 | 28 | 068.821P | 34 | 32 | 072.820 | 63 | 39 | 52x3 | 016.054 | 26 | 55 | TRAUB A 20 |
| 068.830A | 52 | 37 | 068.830P | 37 | 59 | 074.830 | 72 | 39 | 62x2.5 | 016.024 | 34 | 56 | TRAUB A 25 |
| 068.832A | 52 | 37 | 068.832P | 37 | 42 | 074.830 | 72 | 39 | 62x2.5 | 016.052 | 34.5 | 74 | TRAUB A 25 |
| 068.870A | 68 | 38 | 068.870P | 54 | 58 | 074.870 | 91 | 46 | 80x3 | 016.055 | 50 | 80 | TRAUB A 42 - TB 42 |
| 068.880A | 86 | 45 | 068.880P | 74 | 45 | 072.880 | 105 | 44.5 | 98x3 | 016.056 | 69.5 | 100 | TRAUB A 60 |
| 068.881A | 86 | 45 | 068.881P | 74 | 67 | 072.880 | 105 | 44.5 | 98x3 | 016.043 | 60 | 80 | TRAUB A 60 |
| 068.880A | 86 | 45 | 068.950P | 74 | 67 | 072.880 | 105 | 44.5 | 98x3 | 016.056 | 69.5 | 100 | TRAUB TB 60 |
| 068.881A | 86 | 45 | 068.951P | 74 | 89 | 072.880 | 105 | 44.5 | 98x3 | 016.043 | 60 | 80 | TRAUB TB 60 |
| 068.920A | 54 | 28 | 068.920P | 40 | 60 | - (3) - | 78 | 40 | 70x3 | 016.024 | 34 | 56 | TRAUB TD 26 |
| 068.922A | 54 | 28 | 068.922P | 40 | 40 | - (3) - | 78 | 40 | 70x3 | 016.052 | 34.5 | 74 | TRAUB TD 26 |

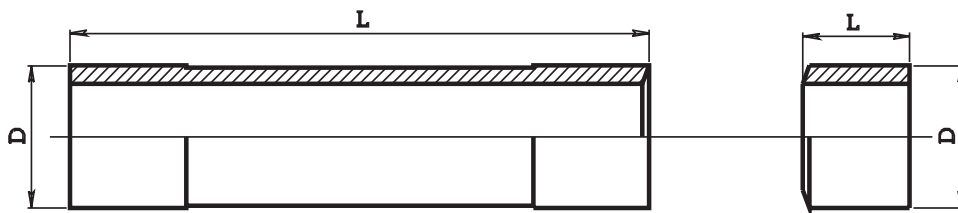
- (1) La ghiera 074.420 viene anche montata sul SAIC B26 quando su detta macchina si ha l'albero con guida cilindrica. (Code 074.420 suites SAIC B26 with cylindrical guide spindle shaft).
 (2) Il canotto anteriore e' integrale alla ghiera (Front collet holder is integral with nut)
 (3) per macchine costruite fino al 1976 art. ghiera 074.920 (For machines up to 1976 nut code is 074.920)
 (3) per macchine costruite dopo il 1976 art. ghiera 074.920 B (For machines after 1976 nut code is 074.920B)





TUBO Tipo 076 e DISTANZIALE Tipo 078 DI SERRAGGIO

SPACING TUBE AND SLEEVE FOR CHUCKING

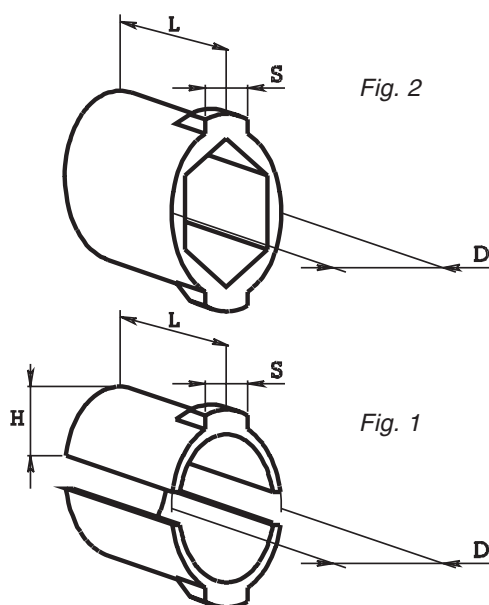


| tube | | | sleeve | | | machine |
|----------------|------|-----|--------------------------|------|------|---------------|
| TUBO | | | DISTANZIALE COMPENSATORE | | | MACCHINA |
| ART. | D | L | ART. | D | L | |
| — | — | — | 078.036 | 27 | 19.5 | BECHLER BR 20 |
| — | — | — | 078.140 | 38.8 | 20 | CASER TA 30 |
| 076.210 | 16.8 | 165 | 078.210 | 16.8 | 12 | FEINLER FA 10 |
| 076.220 | 23 | 190 | 078.220 | 23 | 12 | FEINLER FA 15 |
| 076.220 | 23 | 190 | 078.220B | 23 | 10.5 | FEINLER FA 15 |
| 076.238 | 26.5 | 208 | 078.238 | 26.5 | 29.5 | GIORGI GM 20 |
| — | — | — | 078.245 | 38.2 | 26 | GIORGI GM 30 |
| 076.250 | 38.5 | 203 | 078.250 | 38.5 | 26.5 | GIORGI GM 32 |
| 076.830 | 32 | 132 | 078.601 | 32.8 | 26 | ITS 26 |
| 076.830 | 32 | 132 | 078.600 | 32.8 | 24 | SAIC B 26 |
| 076.830 | 32 | 132 | 078.601 | 32.8 | 27 | SAIC B 26 |
| 076.601 | 31.7 | 208 | 078.601 | 32.8 | 27 | SAIC A 26 |
| 076.610 | 36.8 | 128 | 078.610 | 37.7 | 26 | SAIC B 30 |
| 076.640 | 56 | 226 | 078.640 | 55.8 | 21 | SAIC B 45 |

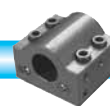
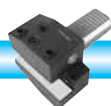
| tube | | | sleeve | | | machine |
|----------------|------|------|--------------------------|------|----|--------------------|
| TUBO | | | DISTANZIALE COMPENSATORE | | | MACCHINA |
| ART. | D | L | ART. | D | L | |
| 076.730 | 16.8 | 73.5 | 078.730 | 16.8 | 11 | STROHM 125 |
| 076.731 | 16.8 | 73.5 | 078.731 | 16.8 | 11 | STROHM 105 |
| — | — | — | 078.735 | 32 | 26 | STROHM 205 |
| — | — | — | 078.745 | 37 | 27 | STROHM 255 |
| 076.810 | 21 | 156 | 078.810 | 21 | 24 | TRAUB A 15 - TC 15 |
| 076.811 | 21 | 176 | 078.810 | 21 | 24 | TRAUB A 15 - TC 15 |
| 076.820 | 28 | 158 | 078.820 | 28 | 24 | TRAUB A 20 |
| 076.830 | 32 | 132 | 078.830 | 32 | 24 | TRAUB A 25 |
| 076.830 | 32 | 132 | 078.832 | 32 | 26 | TRAUB A 25 |
| 076.870 | 51 | 230 | 078.870 | 51 | 29 | TRAUB A 42 |
| 076.880 | 70 | 234 | 078.880 | 70 | 30 | TRAUB A 60 |
| 076.920 | 34 | 203 | 078.920 | 34 | 15 | TRAUB TD 26 |
| — | — | — | 078.940 | 51.8 | 25 | TRAUB TB 42 |
| 076.965 | 22 | 190 | 078.965 | 22 | 19 | UNAMUNO 15 |

SETTORI DI SERRAGGIO Tipo 079

SLEEVE FOR CHUCKING

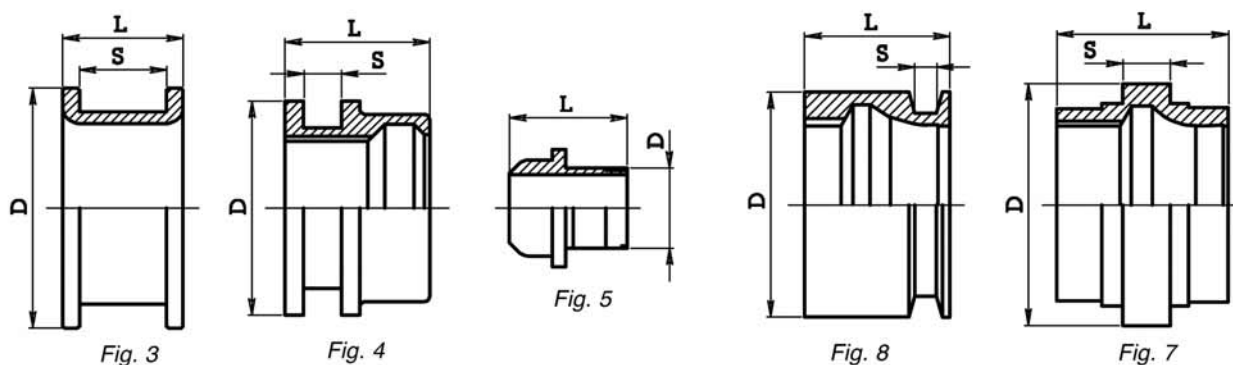
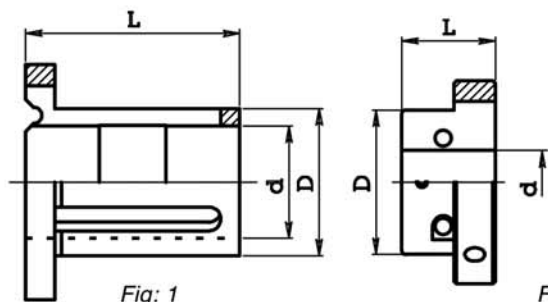
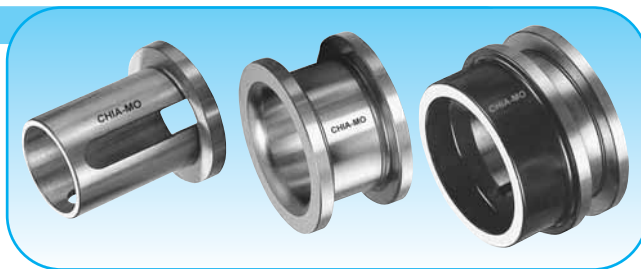


| Code | | | | | machine | |
|-----------------|----|----|------|------|--------------------------|------|
| ART. | D | L | S | H | MACCHINA | Fig. |
| 079.015 | 38 | 50 | 15.5 | 14 | ATA 25 | 1 |
| 079.016 | 53 | 50 | 19.5 | 20 | ATA40 / SKODA40 / MAS40 | 1 |
| 079.310 | 24 | 36 | 11.6 | 8 | INDEX 12 | 1 |
| 079.315 | 26 | 34 | 12 | — | INDEX DG 12 | 2 |
| 079.320 | 30 | 34 | 11.5 | 10.1 | INDEX 12 - ON 12 - OR 12 | 1 |
| 079.330 | 30 | 40 | 13.5 | 10.5 | INDEX 18 - C 19 | 1 |
| 079.340 | 36 | 40 | 13.5 | 13 | INDEX 25 | 1 |
| 079.350 | 37 | 42 | 15.8 | 13 | INDEX 24 - B 30 - C 29 | 1 |
| 079.360 | 48 | 52 | 19.5 | 18.4 | INDEX 36 - B 42 | 1 |
| 079.370 | 67 | 52 | 19.5 | 27.3 | INDEX 52 - B 60 | 1 |
| 079.505 | 36 | 30 | 11.5 | 12 | LOGOS L 24 | 1 |
| 079.506 | 37 | 30 | 12.5 | 12.5 | LOGOS L 25 | 1 |
| 079.510 | 44 | 35 | 16 | 15 | LOGOS L 30 | 1 |
| 079.520 | 52 | 35 | 18 | 19.5 | LOGOS L 42 | 1 |
| 079.525 | 62 | 40 | 18 | 21 | LOGOS L 52 | 1 |
| 079.750 | 38 | 50 | 14.5 | 11.5 | TAREX L 32 | 1 |
| 079.753 | 47 | 50 | 15.5 | 16 | TAREX L 42 | 1 |
| 079.753B | 47 | 50 | 21.5 | 16 | TAREX L 42 | 1 |
| 079.756 | 57 | 50 | 15.5 | 21 | TAREX L 52 | 1 |
| 079.756B | 57 | 50 | 21.5 | 21 | TAREX L 52 | 1 |
| 079.762B | 70 | 50 | 24.5 | 22.3 | TAREX L 64 | 1 |



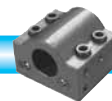
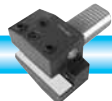


MANICOTTI PORTA LEVETTE e ANELLE DI CHIUSURA
LEVEL-HOLDER SLEEVES AND CHUCKING RINGS



| lever holder sleeves | | | | | chucking rings | | | | | lever code | | machine |
|----------------------|------|----|----|------|----------------|------|------|------|------|--------------|----|-------------------------|
| MANICOTTO | | | | | ANELLA | | | | | ART. Levetta | n° | MACCHINA |
| ART. | D | d | L | Fig. | ART. | D | L | S | Fig. | ART. Levetta | n° | |
| 080.830 | 50 | 42 | 75 | 1 | 082.130 | 80 | 42 | 30.5 | 3 | 084.130 | 3 | CASER TA 26 |
| 080.140 | 55.5 | 47 | 75 | 1 | 082.140 | 85 | 41 | 30.5 | 3 | 084.130 | 3 | CASER TA 30 |
| 080.211 | — | — | — | — | 080.210 | 30 | 43 | — | 5 | 084.220 | 2 | FEINLER FA 10 |
| 080.221 | 59 | 30 | 45 | 2 | 080.220 | 35 | 44.5 | — | 5 | 084.220 | 2 | FEINLER FA 15 |
| — | — | — | — | — | 082.230B | 40 | 64 | — | — | — | — | GILDEMEISTER GM16AC(3) |
| — | — | — | — | — | 082.235 | 115 | 88 | 20 | 4 | — | — | GILDEMEISTER GS 25 (1) |
| — | — | — | — | — | 082.235B | 115 | 88 | 20 | 4 | — | — | GILDEMEISTER GS 25 (2) |
| 080.238 | 47 | 35 | 85 | 1 | 082.238 | 76 | 43 | 30 | 3 | 084.240 | 3 | GIORGI GM 20 |
| 080.250 | 56 | 46 | 85 | 1 | 082.250 | 91 | 43 | 30 | 3 | 084.240 | 3 | GIORGI GM 32 |
| 080.310 | 46 | 39 | 74 | 1 | — | — | — | — | — | 084.310 | 2 | INDEX ON 12 |
| 080.315 | 42 | 35 | 77 | 1 | — | — | — | — | — | 084.310 | 2 | INDEX DG 12 |
| 080.320 | 44 | 34 | 72 | 1 | 082.320 | 80 | 54 | 14 | 4 | 084.320 | 2 | INDEX 12 |
| 080.330 | 50 | 39 | 72 | 1 | 082.330 | 80 | 54 | 14 | 4 | 084.330 | 2 | INDEX 18 - C19 |
| 080.340 | 56 | 44 | 72 | 1 | 082.340 | 86 | 54 | 14 | 4 | 084.330 | 2 | INDEX 25 |
| 080.345 | 60 | 48 | 72 | 1 | 082.345 | 90 | 54 | 14 | 4 | 084.350 | 2 | INDEX C29 |
| 080.350 | 68 | 48 | 94 | 1 | 082.350 | 115 | 76 | 18 | 4 | 084.351 | 2 | INDEX 24 - B30 |
| 080.360 | 80 | 59 | 94 | 1 | 082.360 | 115 | 76 | 18 | 4 | 084.360 | 2 | INDEX 36 - B42 |
| 080.370 | 98 | 76 | 94 | 1 | 082.370 | 130 | 52 | 18 | 4 | 084.360 | 2 | INDEX 52 - B60 |
| 080.830 | 50 | 42 | 75 | 1 | 082.830 | 79 | 45 | 30.5 | 3 | 084.600 | 3 | ITS 26 - (tipo vecchio) |
| 080.420 | 55 | 42 | 80 | 1 | 082.420 | 84 | 42.5 | 30.5 | 3 | 084.420 | 3 | ITS 26 |
| — | — | — | — | — | 082.557 | — | — | — | — | — | — | MAS 40 |
| 080.830 | 50 | 42 | 75 | 1 | 082.830 | 79 | 45 | 30.5 | 3 | 084.600 | 3 | SAIC B26 |
| — | — | — | — | — | 082.420 | 84 | 42.5 | 30.5 | 3 | — | — | SAIC A30 |
| 080.610 | 55 | 47 | 74 | 1 | 082.610 | 81.5 | 44.3 | 30.5 | 3 | 084.610 | 3 | SAIC B30 |
| 080.640 | 84 | 67 | 81 | 1 | 082.640 | 115 | 47 | 32.5 | 3 | 084.640 | 3 | SAIC B45 |

(1) 082.235 ha il foro d. 76 (2) 082.235B ha il foro d. 72 (3) 082.230B ha il foro d. 34
082.235 hole d. 76 (2) 082.235B hole d. 72 (3) 082.230B hole d. 34





MANICOTTI PORTA LEVETTE e ANELLE DI CHIUSURA
LEVEL-HOLDER SLEEVES AND LOCKING RINGS

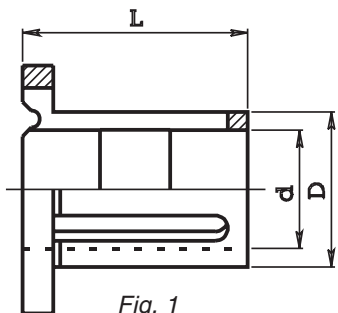
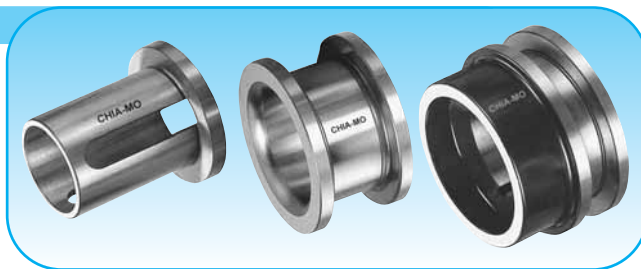


Fig. 1

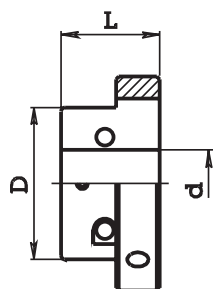


Fig. 2

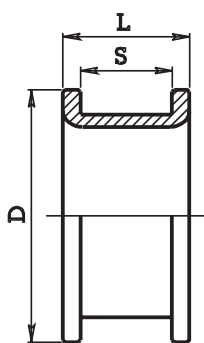


Fig. 3

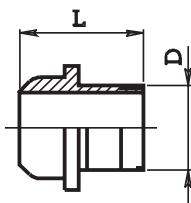


Fig. 5

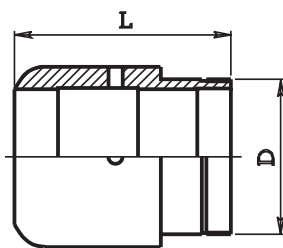


Fig. 6

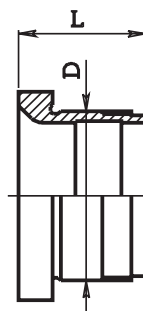


Fig. 9

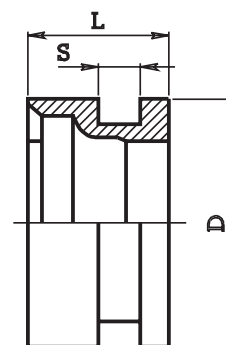
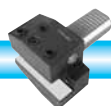


Fig. 10

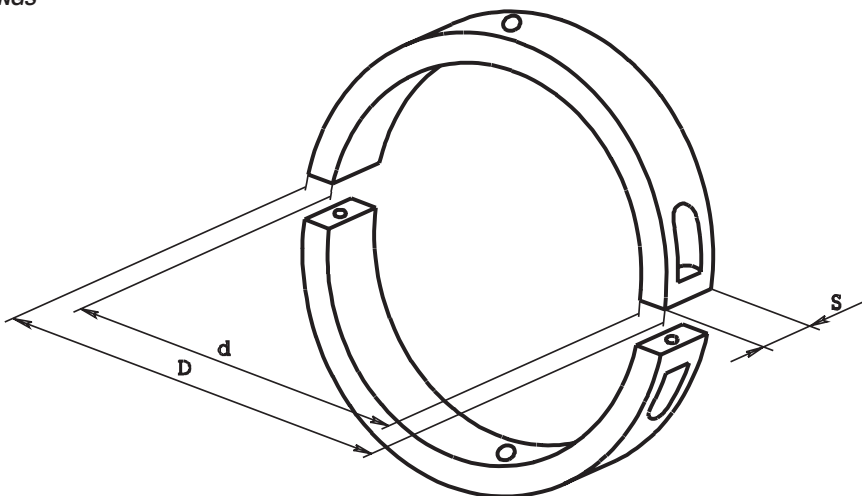
| lever holder sleeves | | | | | locking rings | | | | | lever code | | machine |
|----------------------|----|----|------|------|---------------|-------|------|------|------|--------------|----|--------------------------|
| MANICOTTO | | | | | ANELLA | | | | | | | MACCHINA |
| ART. | D | d | L | Fig. | ART. | D | L | S | Fig. | ART. Levetta | n° | |
| — | — | — | — | — | 082.662 | 92 | 65 | 18 | 7 | — | — | SE 16 SCHÜTTE |
| — | — | — | — | — | 082.662B | 85.5 | 55 | 8.3 | 8 | — | — | SE 16 SCHÜTTE |
| — | — | — | — | — | 080.728 | 25 | 32 | — | 5 | — | — | STROHM 4,5 |
| 080.731 | 76 | 25 | 35 | 2 | 080.730 | 30 | 44 | — | 5 | 084.730 | 2 | STROHM 125 |
| — | — | — | — | — | 080.735 | 55 | 77 | — | 6 | — | — | STROHM 205 |
| — | — | — | — | — | 080.740 | 60 | 77 | — | 6 | — | — | STROHM 255 |
| 080.810 | 37 | 30 | 65.3 | 1 | 082.810 | 57 | 40 | 22.5 | 3 | 084.810 | 2 | TRAUB A15 (tipo vecchio) |
| 080.811 | 42 | 30 | 72 | 1 | 082.811 | 70 | 46 | 30.5 | 3 | 084.830 | 2 | TRAUB A15 (levet. sp.10) |
| 080.812 | 42 | 30 | 72 | 1 | 082.811 | 70 | 46 | 30.5 | 3 | 084.831 | 2 | TRAUB A15 (levet. sp.12) |
| 080.812 | 42 | 30 | 72 | 1 | 082.800 | 50 | 43.5 | — | 9 | 084.831 | 2 | TRAUB TC15 |
| 080.820 | 45 | 38 | 74 | 1 | 082.820 | 72 | 46 | 30.5 | 3 | 084.830 | 3 | TRAUB A20 |
| 080.830 | 50 | 42 | 75 | 1 | 082.830 | 79 | 45 | 30.5 | 3 | 084.830 | 3 | TRAUB A25 (levet. sp.10) |
| 080.831 | 50 | 42 | 75 | 1 | 082.830 | 79 | 45 | 30.5 | 3 | 084.831 | 3 | TRAUB A25 (levet. sp.12) |
| 080.850 | 60 | 50 | 73 | 1 | 082.850 | 96.8 | 45 | 32.5 | 3 | 084.870 | 3 | TRAUB A26 |
| 080.860 | 74 | 60 | 75 | 1 | 082.860 | 112 | 45 | 32.5 | 3 | 084.870 | 3 | TRAUB A36 |
| 080.870 | 79 | 60 | 76 | 1 | 082.870 | 112 | 45 | 32.5 | 3 | 084.870 | 3 | TRAUB A42 |
| 080.880 | 96 | 80 | 76 | 1 | 082.880 | 128 | 45 | 32.5 | 3 | 084.870 | 3 | TRAUB A60 |
| 080.920 | 52 | 40 | 78 | 1 | 082.920 | 60 | 45 | — | 9 | 084.920 | 3 | TRAUB TD26 |
| 080.940 | 80 | 65 | 90 | 1 | 082.940 | 118 | 45 | 32.5 | 3 | 084.950 | 3 | TRAUB TB42 |
| 080.950 | 96 | 82 | 90 | 1 | 082.880 | 128 | 45 | 32.5 | 3 | 084.950 | 3 | TRAUB TB60 |
| — | — | — | — | — | 082.978 | 87.3 | 50 | 14.5 | 10 | — | — | WICKMAN 5/8 |
| — | — | — | — | — | 082.979 | 112.8 | 93.6 | 19.2 | 10 | — | — | WICKMAN 1" |
| — | — | — | — | — | 082.982 | 144 | 127 | 19 | 10 | — | — | WICKMAN 1" 3/8 |
| — | — | — | — | — | 082.982B | 144 | 127 | 19 | 10 | — | — | WICKMAN 1" 3/8 |
| — | — | — | — | — | 082.984 | 170 | 125 | 22 | 10 | — | — | WICKMAN 2" 1/4 |
| — | — | — | — | — | 080.220 | 35 | 44.5 | — | 5 | — | — | UNAMUNO 15 |





SETTORI IN BRONZO Tipo 081

BRONZE RINGS



SETTORI DI CHIUSURA PINZA

BRONZE RING FOR LOCKING COLLET

| Code | | | | machine |
|---------|-----|------|----|---------------------|
| ART. | D | d | S | MACCHINA |
| 081.330 | 83 | 62 | 14 | INDEX 12-18-C19 |
| 081.340 | 90 | 68.5 | 14 | INDEX 25 |
| 081.345 | 93 | 72 | 14 | INDEX C29 |
| 081.360 | 118 | 92 | 18 | INDEX 24-36-B30-B42 |
| 081.370 | 133 | 110 | 18 | INDEX 52-B60 |

SETTORI PER FRIZIONE CAMBIO VELOCITÀ

BRONZE RING FOR CHANGE SPEED FRICTION

| Code | | | | machine |
|----------|-----|-----|----|--------------|
| ART. | D | d | S | MACCHINA |
| 081.320B | 100 | 79 | 14 | INDEX 12 |
| 081.330B | 101 | 82 | 14 | INDEX 18-C19 |
| 081.340B | 106 | 88 | 14 | INDEX 25 |
| 081.345B | 113 | 95 | 14 | INDEX C29 |
| 081.350B | 136 | 103 | 18 | INDEX 24 |
| 081.355B | 136 | 105 | 18 | INDEX B30 |
| 081.360B | 136 | 116 | 18 | INDEX 36-B42 |
| 081.370B | 152 | 133 | 18 | INDEX 52-B60 |

LEVETTE PER FRIZIONE Tipo 083

FRICTION LEVERS

PIASTRINO Plate

Fig. 1

| Code | | | | | | machine |
|----------|---|-------|----|------|----|---|
| ART. | A | F | H | L | S | MACCHINA |
| 083.340B | 6 | 5x0.5 | 14 | 39.5 | 12 | INDEX 12-18-25 - C19 (A33091) |
| 083.343B | 8 | 5x0.5 | 16 | 45.5 | 16 | INDEX 24-E26-ER26 FRIZIONE INDEX B30 (A53090) |
| 083.345B | 6 | 5x0.5 | 16 | 39.5 | 12 | INDEX C29 (C29381) |
| 083.360B | 8 | 5x0.5 | 20 | 45.5 | 16 | INDEX 36-52 - CAMBIO INDEX B42-60 (A73090) |
| 083.361B | 7 | 5x0.5 | 20 | 40.2 | 10 | CAMBIO INDEX B30 - FRIZIONE INDEX B42-60-B60F (AR1840) |

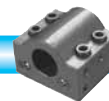
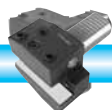
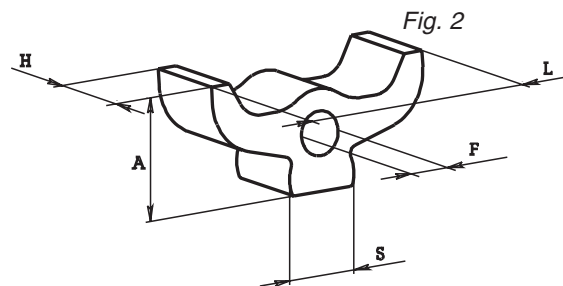
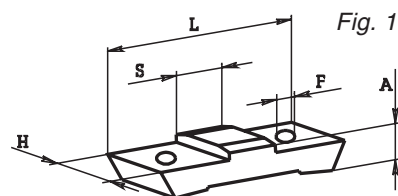
LEVETTA Lever

Fig. 2

| Code | | | | | | machine |
|---------|----|---|------|----|----|---|
| ART. | A | F | H | L | S | MACCHINA |
| 083.340 | 17 | 7 | 13.8 | 45 | 12 | INDEX 12-18-25 - C19 (A33060) |
| 083.343 | 20 | 8 | 15.8 | 50 | 14 | INDEX 24-E26-ER26 |
| 083.344 | 18 | 8 | 15.8 | 50 | 14 | FRIZIONE INDEX B30 (A53060) |
| 083.345 | 17 | 7 | 15.8 | 45 | 12 | INDEX C29 (C29331) |
| 083.360 | 20 | 8 | 19.8 | 50 | 14 | INDEX 36-52 CAMBIO INDEX B42-60 (A73060) |
| 083.361 | 22 | 8 | 19.8 | 46 | 14 | CAMBIO INDEX B30 - FRIZIONE INDEX B42-60-B60F (AR1830) |

VITE Screw

| Code | Screw | for code |
|-------------|-----------------|---------------------|
| ART. | vite | per ART. |
| 083.340 956 | vite T9 d.5 L=6 | 083.340B - 083.345B |
| 083.343 959 | vite T9 d.5 L=9 | 083.343B - 083.360B |
| 083.361 856 | vite T8 d.5 L=6 | 083.361B |





LEVETTE DI SERRAGGIO PINZA Tipo 084

COLLET CLOSING LEVERS

| ART.(Code) | S | L | F | H | Fig. | macchina (machine) | n° |
|------------|------|-------|------|------|------|-----------------------------|----|
| 084.007 | 15 | 84 | — | 25 | 1 | AKEBONO MINC-26 | |
| 084.015 | 15.5 | 103.5 | — | 26.7 | 2 | ATA 25 | 2 |
| 084.016 | 19.5 | 103.5 | — | 26.7 | 2 | ATA 40 | 2 |
| 084.019 | 10 | 92 | 8 | 28 | 22 | BECHET 19 | |
| 084.028 | 6 | 54.5 | 3 | 16 | 3 | BECHLER A7-A10 | 2 |
| 084.028B | 6 | 54.5 | 4 | 16 | 3 | BECHLER A7-A10 | 2 |
| 084.039B | 12 | 76.2 | 6 | 28.6 | 4 | BECHLER B20 (tipo nuovo) | 2 |
| 084.050 | 14.5 | 55 | 8 | 24 | 5 | BODEM P26-32 | 2 |
| 084.069 | 12.5 | 61 | — | 15.5 | 2 | BROWN e SHARPE 00 | 2 |
| 084.076 | 9.5 | 53 | 6.35 | 12.6 | 6 | BSAACME-GRIDLEY 5/16-7/16 | |
| 084.077 | 15.9 | 66.5 | 8.34 | 19 | 6 | BSA ACME-GRIDLEY 1" | |
| 084.100 | 19.8 | 75 | 3 | 20 | 7 | CAMPORESI A42-60 | 3 |
| 084.130 | 9 | 70 | — | 18 | 7 | CASER TA26-30 | 3 |
| 084.145 | 12 | 92.5 | — | 26 | 8 | CASER TA45 | 3 |
| 084.150 | 14.5 | 92.5 | — | 26 | 8 | CASER TA50 | 3 |
| 084.162 | 6 | 52 | 4 | 17.5 | 21 | CITIZEN G16 | |
| 084.162B | 10 | 72,3 | 8 | 24 | 21 | CITIZEN 32 | |
| 084.162C | 8 | 55 | 6 | 20.2 | 29 | CITIZEN L20 | |
| 084.166 | 8 | 60 | 7 | 24 | 9 | CERIOTTI RV32 | 2 |
| 084.169 | 6 | 50 | 6.35 | 18.3 | 38 | CONOMATIC 9/16 | |
| 084.175B | 25 | 84 | 8 | 30 | 10 | DAR 46 | 2 |
| 084.175 | 25 | 84 | 10 | 30 | 10 | DAR 71 | 2 |
| 084.176 | 30 | 100.5 | 10 | 38 | 10 | DAR 90 | 2 |
| 084.182 | 10 | 68 | 10 | 30.2 | 9 | DIEMME-FERRI 26 | 2 |
| 084.220 | 7 | 50 | 6 | 19 | 11 | FEINLER FA10-FA15 | 2 |
| 084.224 | 6 | 57 | 4 | 15.5 | 3 | GAUTHIER GM12-15 | 2 |
| 084.229 | 9 | 62 | — | | 12 | GILDEMEISTER AS12 | 18 |
| 084.230 | 9 | 67.5 | — | 19.2 | 12 | GILDEMEISTER AS16-20 | 18 |
| 084.230A | 11.5 | 67.8 | — | | 12 | GILDEMEISTER GS20/6 | 18 |
| 084.230B | 8 | 60.5 | 8 | | 41 | GILDEMEISTER GM16 AC | 18 |
| 084.230C | 10 | 53.5 | 7 | | 42 | GILDEMEISTER GD16 (fantina) | 18 |
| 084.230D | 10 | 58 | 7 | 25 | 43 | GILDEMEISTER GLD20-25-32 | |
| 084.230E | 10 | 52.6 | 7 | 28.6 | 42 | GILDEMEISTER GD20 | |
| 084.230F | 10 | 58 | — | 23.5 | 43 | GILDEMEISTER GD20 | |
| 084.230G | 10 | 54.5 | — | 29.1 | 42 | GILDEMEISTER GD32-SPRINT32 | |
| 084.230H | 10 | 54 | 7 | 25.5 | 42 | GILDEMEISTER SPRINT42 | |
| 084.230L | 10 | 56.2 | 7 | 24.3 | 43 | GILDEMEISTER GD16 | |
| 084.230-9 | 13 | 99 | 10 | 32 | 44 | GILDEMEISTER SPRINT42 | |
| 084.231 | 20 | 65 | — | 21.8 | 16 | GILDEMEISTER AS25 (tedesca) | 18 |
| 084.232A | 24 | 73 | — | 23.5 | 13 | GILDEMEISTER AS32 | 18 |

S = Spessore (thickness)
L = Lunghezza (length)
F = Diametro del foro (bore)
H = Altezza (height)

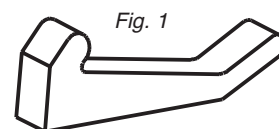


Fig. 2



Fig. 3



Fig. 4

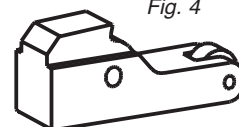


Fig. 5

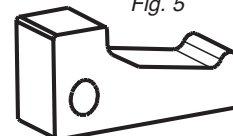


Fig. 6

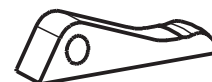


Fig. 7

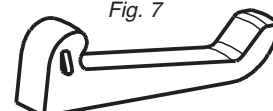


Fig. 8

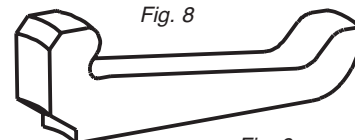


Fig. 41



Fig. 22

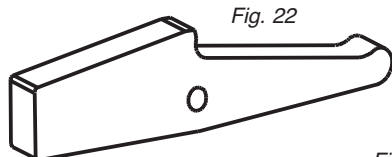


Fig. 21

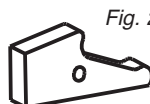


Fig. 12

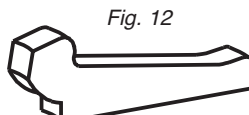


Fig. 9

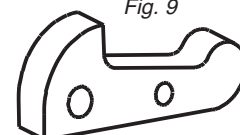


Fig. 44



Fig. 38

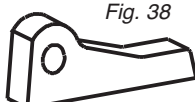


Fig. 29



Fig. 13

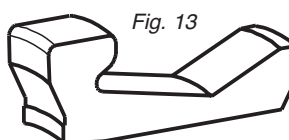


Fig. 10

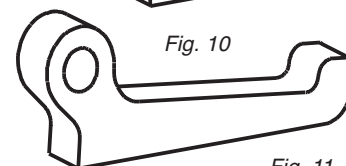


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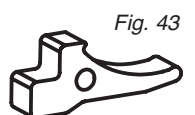


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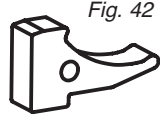


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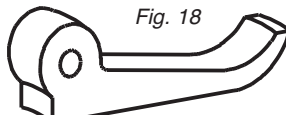


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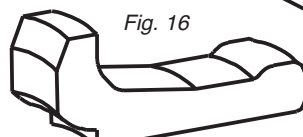
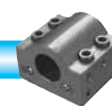
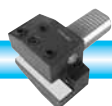
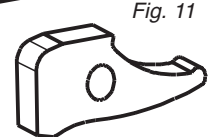


Fig. 11



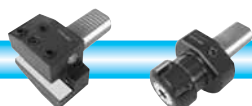
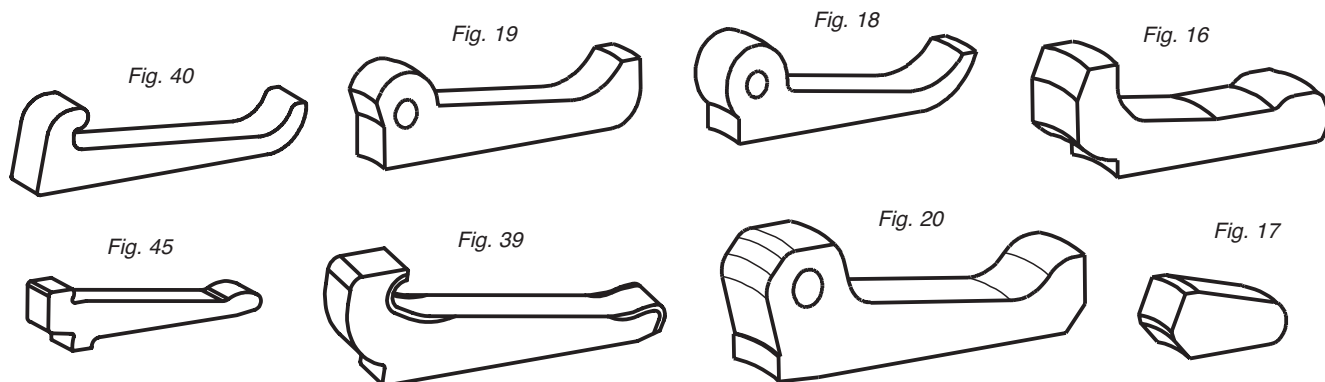
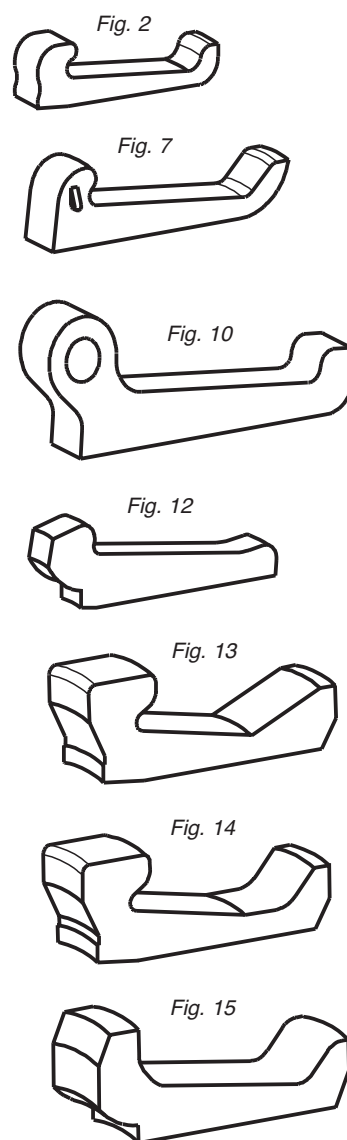


LEVETTE DI SERRAGGIO PINZA Tipo 084

COLLET CLOSING LEVERS

| ART.(Code) | S | L | F | H | Fig. | macchina (machine) | n° |
|-------------|------|------|----|------|------|--------------------------|----|
| 084.232B | 24 | 73 | — | 24 | 13 | GILDEMEISTER AS32 | 18 |
| 084.232C | 24 | 73 | — | 25 | 15 | GILDEMEISTER AS32 | 18 |
| 084.232D | 24 | 66 | — | 25 | 16 | GILDEMEISTER AS32 | 18 |
| 084.233 | 8 | 54 | — | 14 | 12 | GILDEMEISTER ASL10 | |
| 084.233B | 19.5 | 102 | — | 30 | 39 | GILDEMEISTER HB989-W001 | |
| 084.233C | 11.8 | 65.5 | — | 22.1 | 39 | GILDEMEISTER GM C20S | |
| 084.233D | 15.5 | 95.5 | — | 29.8 | 39 | GILDEMEISTER GM35/8 | |
| 084.234A | 30 | 73 | — | 25 | 13 | GILDEMEISTER AS48 | 18 |
| 084.234B | 30 | 80 | — | 24.5 | 14 | GILDEMEISTER AS48 | 18 |
| 084.234C | 30 | 80 | — | 25.7 | 15 | GILDEMEISTER AS48 | 18 |
| 084.234D | 30 | 74 | — | 25.7 | 16 | GILDEMEISTER AS48 | 18 |
| 084.235 | 13 | 34 | — | 15.4 | 17 | GILDEMEISTER AS28 | 18 |
| 084.240 | 10 | 74 | 6 | 22 | 18 | GIORGI GM 20-25-30-32 | 3 |
| 084.260 012 | 12 | 57 | — | 17 | 40 | HANWHA | |
| 084.260B | 12 | 57.9 | — | 17 | 40 | MANURHIN | |
| 084.261 014 | 14 | 85.8 | — | 23 | 40 | HANWHA STL 32-35 | |
| 084.262 012 | 12 | 57 | — | 17 | 40 | HANWHA XD | |
| 084.263 012 | 12 | 88 | — | 23 | 40 | HANWHA SM 02026001 | |
| 084.959 | 12 | 85 | — | 22 | 2 | HANWHA 26 / SL32 HE | |
| 084.270 | 12 | 75 | — | 25 | 7 | IMAMI IC16-R28 | |
| 084.310 | 11.8 | 66 | — | 17.2 | 2 | INDEX ON12-OR12-DG12 | 2 |
| 084.311 | 13.8 | 66 | — | 17.2 | 2 | INDEX E25 idraulica | 2 |
| 084.320 | 11.8 | 74 | — | 20 | 2 | INDEX 12 | 2 |
| 084.330 | 13.5 | 74 | — | 20 | 2 | INDEX 18-25-C19 - ER25 | 2 |
| 084.350 | 15.5 | 74 | — | 20 | 2 | INDEX C29 | 2 |
| 084.351 | 15.5 | 100 | — | 24.2 | 2 | INDEX 24-B30 | 2 |
| 084.360 | 19.8 | 100 | — | 24.2 | 2 | INDEX 36-52-B42-B60 | 2 |
| 084.366 | 20 | 88 | — | 23 | 45 | INDEX KS 32-42-50 | |
| 084.393 | 16 | 69 | 12 | 40.5 | | IRALAG 35-45 | |
| 084.420 | 10 | 73 | 6 | 19.5 | 19 | ITS 26 | 3 |
| 084.450 | 17.5 | 88 | 8 | 28 | 20 | ITS 36-42-60 | 3 |
| 084.465 | 8 | 73 | — | 18.3 | 7 | K.HOFFMAN H15 K.HUNGER15 | 2 |
| 084.330 | 13.5 | 74 | — | 17.2 | 2 | LOGOS L18-L24 | 2 |
| 084.457 | 15.5 | 98 | 3 | 27 | | YATOR 42 | |
| 084.480 | 10 | 70 | 3 | 26 | | LANGE T35 | |
| 084.510 | 15.5 | 100 | — | 24.2 | 2 | LOGOS L30 | 2 |
| 084.520 | 18.4 | 100 | — | 24.2 | 2 | LOGOS L36-42-52 | 2 |
| 084.530 | 21.3 | 100 | — | 24.2 | 2 | LOGOS L64 | 2 |
| 084.532 | 25 | 100 | — | 24.2 | 2 | LOGOS L68 | 2 |
| 084.543 | 12 | 70.6 | 7 | 24 | 10 | MANURHIN PF TR 22-25 | |

S = Spessore (thickness)
L = Lunghezza (length)
F = Diametro del foro (bore)
H = Altezza (height)



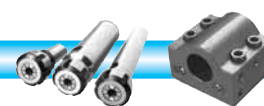
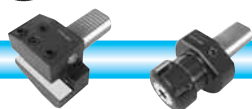
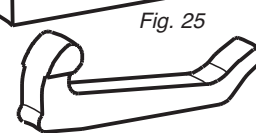
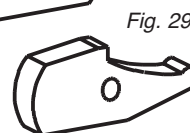
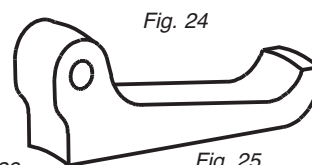
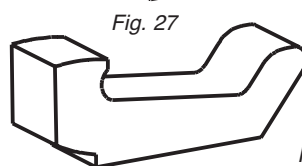
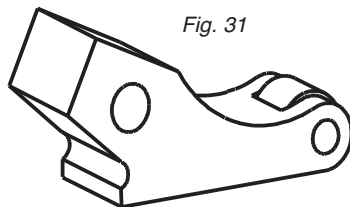
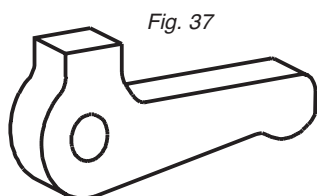
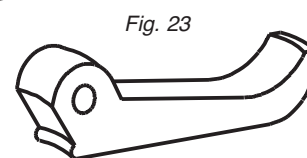
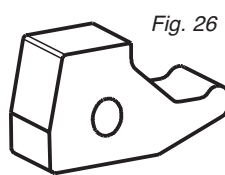
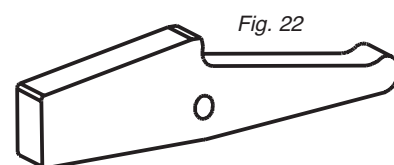
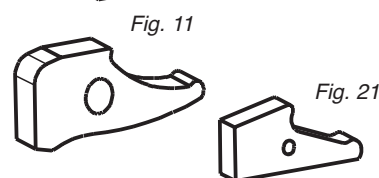
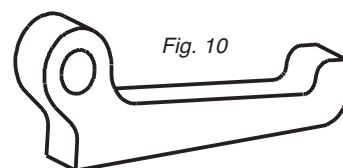
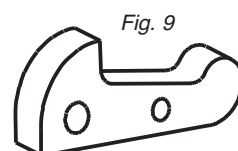
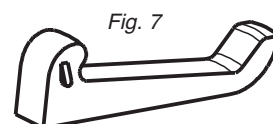
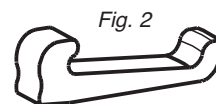


LEVETTE DI SERRAGGIO PINZA Tipo 084

COLLET CLOSING LEVERS

| ART.(Code) | S | L | F | H | Fig. | macchina (machine) | n° |
|------------|------|------|-----|-------|------|---------------------------------|----|
| 084.549 | 15.5 | 91 | 10 | 32.5 | 10 | MANURHIN PF TR 32-42 | |
| 084.558 | 11 | 53 | — | 17 | 7 | MAURI 20 | 3 |
| 084.560 | 10 | 58.6 | 6 | 21.5 | | MIYANO BJ26 | |
| 084.564A | 8 | 54 | 6 | 28 | | NEXTURN ACTUAL 12-18 | |
| 084.564B | 12 | 61.3 | 6 | 26.85 | | NEXTURN 12-20-26-32-38 | |
| 084.600 | 10 | 71 | — | 18 | 7 | ITS 26 TCA301 (vecchio tipo) | 3 |
| 084.570 | 6 | 35 | 3 | 14.2 | 21 | PETERMAN P4 | 2 |
| 084.571 | 7 | 55 | 4 | 16.2 | 3 | PETERMAN P7 | 2 |
| 084.572 | 7 | 68 | 4 | 19 | 3 | PETERMAN P7R | 2 |
| 084.572B | 7 | 68 | 5 | 19 | 3 | PETERMAN P7R | 2 |
| 084.577 | 10 | 99 | 5 | 22 | 22 | PETERMAN P16 | 2 |
| 084.581 | 26 | 120 | 12 | 28 | | PITTLER PRC 50/6 | |
| 084.583 | 14 | 76 | 10 | 32 | 37 | RECORD 42 | |
| 084.584 | 8.5 | 60 | — | 18 | 2 | ROTARIX 20-25-30-32 | |
| 084.600 | 10 | 71 | — | 18 | 7 | SAIC B26 | 3 |
| 084.610 | 12.4 | 72.5 | 2 | 18 | 7 | SAIC B30 | 3 |
| 084.620 | 14.5 | 73 | 6 | 24.5 | 24 | SAIC A26-30-32-35 | |
| 084.621 | 14.5 | 73 | 6 | 26.5 | 24 | SAIC A26-30-32 | |
| 084.622 | 14.5 | 73 | 6 | 20 | 23 | SAIC A26-30-32 | |
| 084.630 | 10 | 53 | 8 | 28 | 9 | SAIC DP5/26 | 2 |
| 084.640 | 14.5 | 82 | 2.5 | 23.5 | 7 | SAIC B45 | 3 |
| 084.650 | 12 | 62.2 | — | 19 | 25 | SCHAUBLIN 102-120HP | |
| 084.662 | 13.5 | 58 | — | 18 | 27 | SCHUTTE SE16 | 18 |
| 084.664 | 13.5 | 59 | — | 18.5 | 27 | SCHUTTE SE25 - SD25 | 18 |
| 084.665 | 18 | 93 | — | 26.2 | 28 | SCHUTTE SE32 - VD32 - SD32 | 18 |
| 084.680 | 10 | 73 | 6 | 27 | 43 | STAR NC16 | |
| 084.683 | 12 | 50 | 8 | 25.5 | 26 | STAR KNC 32B - SNR32 | |
| 084.683B | 14 | 69.1 | 8 | 30 | 26 | STAR KNC 32 | |
| 084.686 | 12 | 67.5 | 2.5 | 18.8 | 2 | STEINHAUSER STF16 | |
| 084.688 | 12 | 68 | 8 | 23 | 10 | STEINHAUSER STF25 | |
| 084.690 | 14 | 81 | 3 | 22.2 | 2 | STEINHAUSER STF36 | |
| 084.720 | 6 | 44 | 4.5 | 16 | 29 | STROHM 45 | 2 |
| 084.730 | 7 | 50 | 6 | 21 | 11 | STROHM 125NAR | 2 |
| 084.730B | 7 | 50 | 6 | 21 | 11 | STROHM 75-105-125AS | 2 |
| 084.731 | 7 | 50 | 8 | 21 | 11 | STROHM 125NAR con rullini | 2 |
| 084.731B | 7 | 50 | 8 | 21 | 11 | STROHM 75-105-125AS con rullini | 2 |
| 084.740 | 12 | 90.5 | 9 | 31 | 3 | STROHM 205-255 (tipo vecchio) | 2 |
| 084.745 | 13.8 | 92 | 8 | 26 | 30 | STROHM 205-255 (tipo nuovo) | 2 |
| 084.762 | 25 | 76 | 10 | 37 | 31 | TAREX TH64 | 2 |
| 084.530 | 21.5 | 100 | — | 24.2 | 2 | TAREX L32-42-52 | 2 |

S = Spessore (thickness)
L = Lunghezza (length)
F = Diametro del foro (bore)
H = Altezza (height)





LEVETTE DI SERRAGGIO PINZA Tipo 084

COLLET CLOSING LEVERS

| ART.(Code) | S | L | F | H | Fig. | macchina (machine) | n° |
|-------------|-------|-------|-------|-------|------|--|----|
| 084.351 | 15.5 | 100 | — | 24.2 | 2 | TAREX L42-52-64 | 2 |
| 084.770 | 12 | 85 | 8 | 28 | | TOBRE 20 | |
| 084.790 | 6 | 43 | 4.5 | 16 | 3 | TORNOS T4 | 2 |
| 084.792 | 7 | 60 | 5 | 18.3 | 32 | TORNOS M7 | 2 |
| 084.792B | 7 | 60 | 6 | 18.3 | 32 | TORNOS M7 | 2 |
| 084.793 | 7 | 62.8 | 5 | 18 | 3 | TORNOS MS7 | 2 |
| 084.794 | 11.8 | 66 | — | 17.2 | 2 | TORNOS R7-R10 | 2 |
| 084.795 | 9 | 71.3 | 7 | 24.3 | 32 | TORNOS M15 | 2 |
| 084.795B | 9 | 55 | 6 | 21.3 | 3 | TORNOS NA12 | 2 |
| 084.796 | 13.5 | 74 | — | 20 | 2 | TORNOS R16 | 2 |
| 084.798 | 12 | 91 | 8 | 30 | 32 | TORNOS 20 | |
| 084.799 | 12 | 103 | 8 | 30 | 32 | TORNOS 25 | |
| 084.810 | 9 | 62 | — | 17 | 7 | TRAUB A15 (tipo vecchio) | 2 |
| 084.830 | 10 | 70 | — | 18 | 7 | TRAUB A15 | 2 |
| 084.830 | 10 | 70 | — | 18 | 7 | TRAUB A20-25 | 3 |
| 084.831 | 12 | 70 | — | 18 | 7 | TRAUB A15 | 2 |
| 084.831 | 12 | 70 | — | 18 | 7 | TRAUB A20-25 TC15 | 3 |
| 084.870 | 14 | 72 | — | 20.7 | 7 | TRAUB A26-36-42-45-60 | 3 |
| 084.920 | 12 | 75 | 2 | 18.3 | 33 | TRAUB TD16-26-36 | 3 |
| 084.950 | 18 | 84 | — | 22 | 34 | TRAUB TB30-42-60 | 3 |
| 084.958 | 12 | 57 | — | 17 | 2 | TSUGAMI S20-BS20 BE FANTINA | |
| 084.958B | 8 | 56 | — | 13 | 2 | TSUGAMI S20-BS20 BE CONTROM. | |
| 084.958 | 12 | 57 | — | 17 | 2 | TSUGAMI NP20-BS20 BE CONTROM. | |
| 084.958C | 7,94 | 51 | — | 14,14 | 2 | TSUGAMI L10 | |
| 084.958D | 12 | 57 | — | 19 | 2 | TSUGAMI BZ205E | |
| 084.959 | 12 | 85 | — | 22 | 2 | TSUGAMI NP20 FANTINA HANWHA 26 / SL32 HE TSUGAMI MORI BS32 | |
| 084.220 | 7 | 50 | 6 | 19 | 11 | UNAMUNO 15 | |
| 084.350 | 15.5 | 74 | — | 20 | 2 | UNAMUNO 25 | |
| 084.958 008 | 8 | 57 | — | 17 | 2 | HANWHA SL 16 S | |
| 084.968 | 11.5 | 70 | 8 | 29.4 | 24 | UNIMAT 25 | |
| 084.978 | 18.25 | 56.35 | 7.93 | 19.2 | 35 | WICKMAN 5/8" (6 mandr.) | 12 |
| 084.979 | 18.25 | 77 | 11.11 | 26.1 | 35 | WICKMAN 1" | 12 |
| 084.979B | 7 | 72.9 | 6 | 25 | 35 | WICKMAN B32 | |
| 084.982 | 27.8 | 100 | 14.28 | 35.7 | 35 | WICKMAN 1" 3/8- (5-6 mandr.) | 12 |
| 084.990 | 7 | 67.8 | 4 | 16.5 | 36 | WIRT GRUFFAT TCN12 | |
| 084.990B | 7 | 67.8 | 5 | 16.5 | 36 | WIRT GRUFFAT TCN12 | |

S = Spessore (thickness)
L = Lunghezza (length)
F = Diametro del foro (bore)
H = Altezza (height)

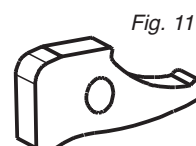
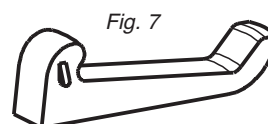
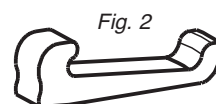


Fig. 35

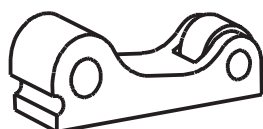


Fig. 33

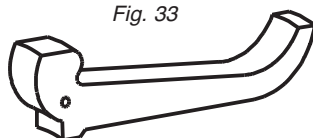


Fig. 32



Fig. 36



Fig. 34

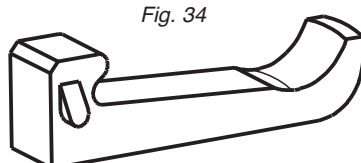
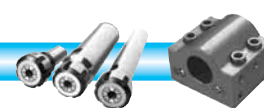
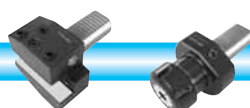
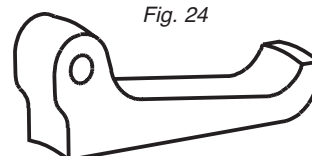


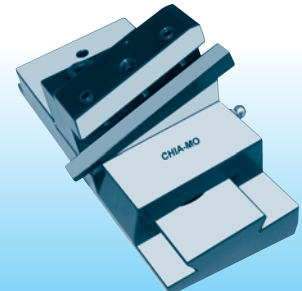
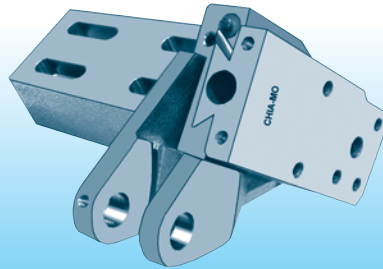
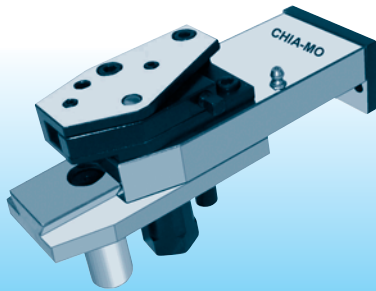
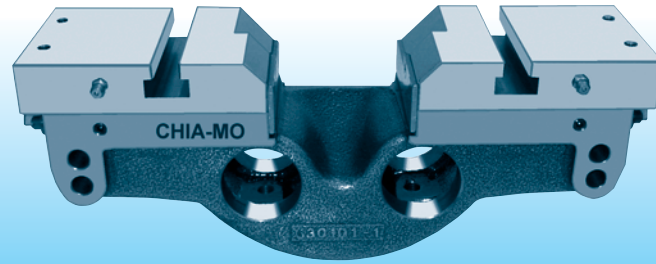
Fig. 24





CHIA-MO

BOLOGNA - ITALY



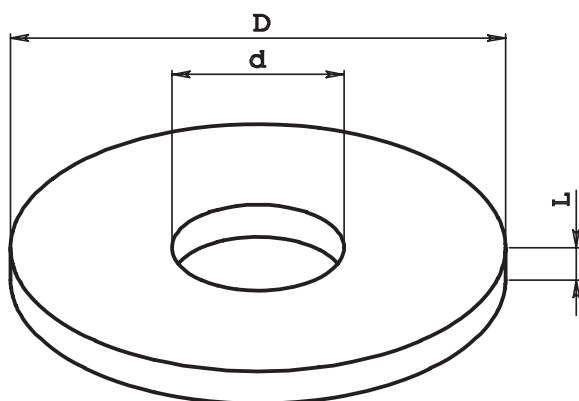
Ricambi SPARE PARTS





DISCHI IN ACCIAIO PER CAMME Tipo 400

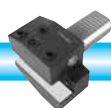
STEEL DISK FOR CAMS



| Code | | | |
|--------------|-----|----|----|
| ART. | D | d | L |
| 400.140 4010 | 140 | 40 | 10 |
| 400.140 4508 | 140 | 45 | 8 |
| 400.140 5010 | 140 | 50 | 10 |
| 400.150 3608 | 150 | 36 | 8 |
| 400.150 4010 | 150 | 40 | 10 |
| 400.150 5010 | 150 | 50 | 10 |
| 400.156 2808 | 156 | 28 | 8 |
| 400.158 4810 | 158 | 48 | 10 |
| 400.158 5810 | 158 | 58 | 10 |
| 400.160 2008 | 160 | 20 | 8 |
| 400.160 2408 | 160 | 24 | 8 |
| 400.160 2410 | 160 | 24 | 10 |
| 400.160 2610 | 160 | 26 | 10 |
| 400.160 2808 | 160 | 28 | 8 |
| 400.160 3006 | 160 | 30 | 6 |
| 400.160 3208 | 160 | 32 | 8 |
| 400.160 4010 | 160 | 40 | 10 |
| 400.160 4512 | 160 | 45 | 12 |
| 400.166 3208 | 166 | 32 | 8 |
| 400.170 3510 | 170 | 35 | 10 |
| 400.170 4010 | 170 | 40 | 10 |
| 400.175 3510 | 175 | 35 | 10 |
| 400.180 2008 | 180 | 20 | 8 |
| 400.180 3208 | 180 | 32 | 8 |
| 400.180 4010 | 180 | 40 | 10 |
| 400.190 4010 | 190 | 40 | 10 |
| 400.200 2008 | 200 | 20 | 8 |
| 400.200 2410 | 200 | 24 | 10 |
| 400.200 2610 | 200 | 26 | 10 |
| 400.200 3010 | 200 | 30 | 10 |
| 400.200 3208 | 200 | 32 | 8 |
| 400.200 3608 | 200 | 36 | 8 |
| 400.200 4010 | 200 | 40 | 10 |
| 400.210 2410 | 210 | 24 | 10 |
| 400.220 2010 | 220 | 20 | 10 |
| 400.220 2410 | 220 | 24 | 10 |
| 400.220 2610 | 220 | 26 | 10 |
| 400.220 3208 | 220 | 32 | 8 |
| 400.220 4010 | 220 | 40 | 10 |
| 400.240 2010 | 240 | 20 | 10 |
| 400.240 4010 | 240 | 40 | 10 |
| 400.250 2610 | 250 | 26 | 10 |
| 400.250 4010 | 250 | 40 | 10 |
| 400.260 2810 | 260 | 28 | 10 |
| 400.260 2812 | 260 | 28 | 12 |
| 400.260 4010 | 260 | 40 | 10 |
| 400.270 4010 | 270 | 40 | 10 |
| 400.280 4010 | 280 | 40 | 10 |
| 400.300 4010 | 300 | 40 | 10 |

| Code | | | |
|---------------|-----|----|----|
| ART. | D | d | L |
| 400.078 3010 | 78 | 30 | 10 |
| 400.080 4610 | 82 | 46 | 10 |
| 400.086 4610 | 86 | 46 | 10 |
| 400.088 3010 | 88 | 30 | 10 |
| 400.088 4610 | 88 | 46 | 10 |
| 400.089 3012 | 89 | 30 | 12 |
| 400.090 2008 | 90 | 20 | 8 |
| 400.090 3006 | 90 | 30 | 6 |
| 400.090 4510 | 90 | 45 | 10 |
| 400.092 3006 | 92 | 30 | 6 |
| 400.096 4012 | 98 | 40 | 12 |
| 400.096 4410 | 96 | 44 | 10 |
| 400.099 4012 | 99 | 40 | 12 |
| 400.100 2408 | 100 | 24 | 8 |
| 400.100 2410 | 100 | 24 | 10 |
| 400.100 2808 | 100 | 28 | 8 |
| 400.100 3010 | 100 | 30 | 10 |
| 400.106 3010 | 106 | 30 | 10 |
| 400.106 30 12 | 106 | 30 | 12 |
| 400.110 2008 | 110 | 20 | 8 |
| 400.110 2606 | 110 | 26 | 6 |
| 400.110 2808 | 110 | 28 | 8 |
| 400.110 3208 | 110 | 32 | 8 |
| 400.110 4206 | 110 | 42 | 6 |
| 400.110 4512 | 110 | 45 | 12 |
| 400.110 4612 | 110 | 46 | 12 |
| 400.115 3006 | 115 | 30 | 6 |
| 400.115 3010 | 115 | 30 | 10 |
| 400.118 5812 | 118 | 58 | 12 |

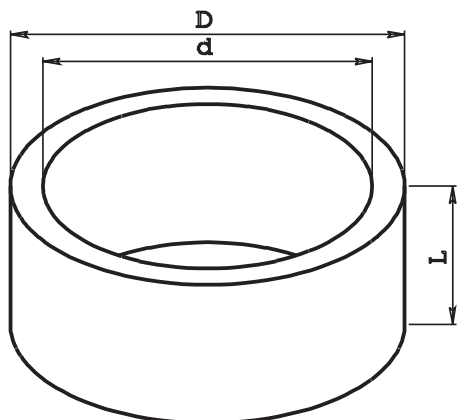
| Code | | | |
|--------------|-----|----|----|
| ART. | D | d | L |
| 400.120 2008 | 120 | 20 | 8 |
| 400.120 2410 | 120 | 24 | 10 |
| 400.120 2610 | 120 | 26 | 10 |
| 400.120 2808 | 120 | 28 | 8 |
| 400.120 3006 | 120 | 30 | 6 |
| 400.120 3007 | 120 | 30 | 7 |
| 400.120 3208 | 120 | 32 | 8 |
| 400.120 4010 | 120 | 40 | 10 |
| 400.123 6412 | 123 | 64 | 12 |
| 400.124 3208 | 124 | 32 | 8 |
| 400.124 4208 | 124 | 42 | 8 |
| 400.125 2008 | 125 | 20 | 8 |
| 400.125 2608 | 125 | 26 | 8 |
| 400.125 2808 | 125 | 28 | 8 |
| 400.125 3208 | 125 | 32 | 8 |
| 400.125 4208 | 125 | 42 | 8 |
| 400.130 2008 | 130 | 20 | 8 |
| 400.130 3006 | 130 | 30 | 6 |
| 400.130 3208 | 130 | 32 | 8 |
| 400.130 4008 | 130 | 40 | 8 |
| 400.130 4208 | 130 | 42 | 8 |
| 400.130 4512 | 130 | 45 | 12 |
| 400.140 2008 | 140 | 20 | 8 |
| 400.140 2410 | 140 | 24 | 10 |
| 400.140 2610 | 140 | 26 | 10 |
| 400.140 2808 | 140 | 28 | 8 |
| 400.140 3008 | 140 | 30 | 8 |
| 400.140 3208 | 140 | 32 | 8 |
| 400.140 3608 | 140 | 36 | 8 |





ANELLI IN ACCIAIO PER CAMME Tipo 402 - 403 - 404 - 405 - 406 - 408 - 410 - 412

STEEL TUBE FOR CAMS



| ART. | L | D | d | macchina | funzione |
|---------|-----|-----|----|--|-------------|
| 406.040 | 40 | 108 | 88 | SAIC B26-30 A30 ITS 26 GIORGI 20-25-32 | CONTROPUNTA |
| 406.050 | 50 | | | | |
| 406.060 | 60 | | | | |
| 406.070 | 70 | | | | |
| 406.080 | 80 | | | | |
| 406.090 | 90 | | | | |
| 406.100 | 100 | | | | |
| 406.120 | 120 | | | | |

| ART. | L | D | d | macchina | funzione |
|---------|----|-----|-----|------------------------------|-----------------|
| 407.040 | 40 | 120 | 104 | STROHM 105-125 TORNOS R10 | APP. 3 MANDRINI |
| 407.045 | 45 | | | | |
| 407.050 | 50 | | | | |
| 407.060 | 60 | | | | |
| 407.070 | 70 | | | | |
| 407.080 | 80 | | | | |

| ART. | L | D | d | macchina | funzione |
|---------|-----|-----|----|---|---|
| 408.040 | 40 | 115 | 95 | TRAUB A15-20-25 TRAUB A15-20-25 TRAUB A36-42-60 | CONTROPUNTA APP. FORA FILETTI TORNITURA |
| 408.050 | 50 | | | | |
| 408.060 | 60 | | | | |
| 408.070 | 70 | | | | |
| 408.080 | 80 | | | | |
| 408.090 | 90 | | | | |
| 408.100 | 100 | | | | |
| 408.110 | 110 | | | | |
| 408.120 | 120 | | | | |

| ART. | L | D | d | macchina | funzione |
|---------|-----|-----|-----|------------------|-------------------------|
| 410.040 | 40 | 130 | 110 | TRAUB TD16-26-36 | CONTROPUNTA TORRETTA |
| 410.050 | 50 | | | | |
| 410.060 | 60 | | | | |
| 410.070 | 70 | | | | |
| 410.080 | 80 | | | | |
| 410.090 | 90 | | | | |
| 410.100 | 100 | | | | |
| 410.110 | 110 | | | | |
| 410.120 | 120 | | | | |
| 410.130 | 130 | | | | |
| 410.140 | 140 | | | | |

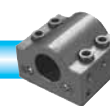
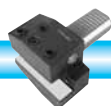
| ART. | L | D | d | macchina | funzione |
|---------|-----|-----|-----|--|---|
| 412.050 | 50 | 150 | 125 | TRAUB A42-60 TRAUB A42-60 TRAUB TB42-60 TRAUB TB42-60 SAIC B45 ITS 36-42-60 ITS 36-42-60 | CONTROPUNTA TORRETTA TORRETTA TORNITURA CONTROPUNTA CONTROPUNTA TORNITURA |
| 412.060 | 60 | | | | |
| 412.070 | 70 | | | | |
| 412.080 | 80 | | | | |
| 412.090 | 90 | | | | |
| 412.100 | 100 | | | | |
| 412.110 | 110 | | | | |
| 412.120 | 120 | | | | |
| 412.130 | 130 | | | | |
| 412.140 | 140 | | | | |
| 412.150 | 150 | | | | |

| Code | L | D | d | macchina | funzione |
|---------|----|----|----|---|-----------|
| 402.040 | 40 | 80 | 60 | TRAUB A15-20-25 SAIC B26-30 A30 ITS 26 GIORGI 20-25-32 CASER 26 | TORNITURA |
| 402.050 | 50 | | | | |
| 402.060 | 60 | | | | |
| 402.070 | 70 | | | | |
| 402.080 | 80 | | | | |
| 402.090 | 90 | | | | |

| ART. | L | D | d | macchina | funzione |
|---------|----|----|----|--|---|
| 403.050 | 50 | 99 | 78 | CASER 26-30 CASER 26-30 MERLI 26 MERLI 26 | CONTROPUNTA APP.FORA FILETTI CONTROPUNTA APP. FORA FILETTI |
| 403.060 | 60 | | | | |
| 403.070 | 70 | | | | |
| 403.075 | 75 | | | | |
| 403.080 | 80 | | | | |

| ART. | L | D | d | macchina | funzione |
|---------|-----|-----|----|-----------------------------------|-------------------|
| 404.030 | 30 | 108 | 84 | SAIC B26-30 SAIC A30 ITS 26 | APP. FORA FILETTI |
| 404.040 | 40 | | | | |
| 404.050 | 50 | | | | |
| 404.060 | 60 | | | | |
| 404.070 | 70 | | | | |
| 404.080 | 80 | | | | |
| 404.090 | 90 | | | | |
| 404.100 | 100 | | | | |

| ART. | L | D | d | macchina | funzione |
|---------|----|-----|----|-----------------------|-------------------|
| 405.025 | 25 | 104 | 80 | GIORGI GM 20-25-32 | APP. FORA FILETTI |
| 405.035 | 35 | | | | |
| 405.040 | 40 | | | | |
| 405.050 | 50 | | | | |
| 405.060 | 60 | | | | |
| 405.070 | 70 | | | | |
| 405.080 | 80 | | | | |
| 405.090 | 90 | | | | |



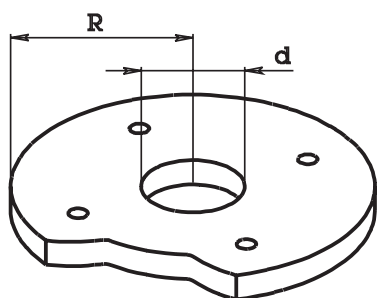
**CAMME A DISCO FERMO BARRA Tipo 420****BAR CATCH CAM DISK**

Fig. 2

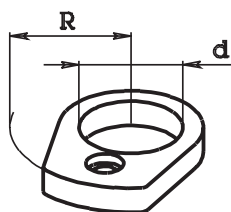
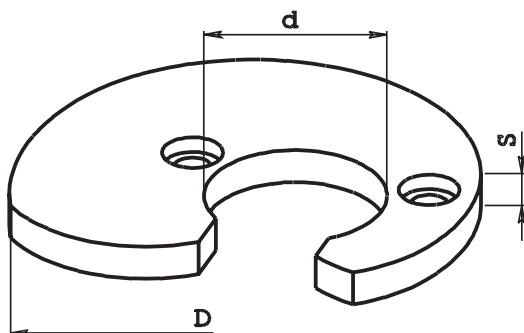


Fig. 1

In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

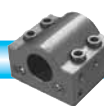
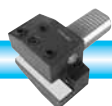
| Code | degrees | | | | machine |
|---------|---------|----|----|------|--------------------------------|
| ART. | gradi | R | d | Fig. | macchina |
| 420.101 | 46° | 36 | 30 | 1 | TRAUB A15-20-25 |
| 420.201 | 46° | 36 | 30 | 1 | SAIC / ITS / GIORGI / 20-25-32 |
| 420.601 | 42° | 47 | 40 | 1 | TRAUB A36-42-60 / SAIC B45 |
| 420.701 | 48° | 80 | 45 | 2 | TRAUB TB30-42-60 |

CAMME A DISCO PER CARRI TRASSALI E VERTICALI Tipo 421**CAM DISK FOR CROSSWIRE AND VERTICAL SLIDE**

In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

| Code | degrees | stroke | | | | | | | | | | | | | | | | machine | for slide | | | | | | | | | |
|---------|---------|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----------|-----------|----|----|----|--|--|--|--|--|---|
| ART. | gradi | corsa | | | | | | | | | | | | | | | | macchina | per carri | | | | | | | | | |
| 421.101 | 30° | 0 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | TRAUB A15-20-25 SAIC B26-30 SAIC A26-30-32 GIORGI 20-25-30-32 ITS 26 FEINLER FA10-15 CASER 26-30 | TRAV. TRAV. TRAV. - VERT. TRAV. TRAV. TRAV. - VERT. TRAV. - VERT. |
| 421.101 | 60° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | |
| 421.101 | 90° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | |
| 421.101 | 120° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | |
| 421.101 | 150° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | |
| 421.101 | 180° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | |
| 421.101 | 200° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | |
| 421.101 | 220° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | | | | | |
| 421.101 | 240° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | | | | | |
| 421.101 | 260° | 0 | | 2 | | 4 | | 6 | | 8 | | 10 | | 12 | | 14 | | 16 | | 18 | | 20 | | | | | | |

| ART. | gradi | corsa | | | | | | | | | | | | | | | | macchina | per carri | | | | | | | | | |
|---------|-------|-------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----------|-----------|----|----|----|--|--|--|--|--------------|---------------|
| 421.205 | 90° | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 18 | 20 | | | | | | | | | | | | ITS 36-42-60 | TRAV. - VERT. |
| 421.205 | 120° | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | | | | | | | | | | | | |
| 421.205 | 150° | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | | | | | | | |
| 421.205 | 180° | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | | | | | | |
| 421.205 | 220° | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | | | | | | |

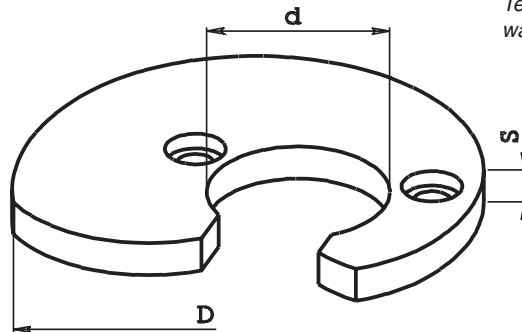




CAMME A DISCO PER CARRI TRASVERSALI E VERTICALI Tipo 421 e Tipo 422

CAM DISK FOR CROSSWIRE AND VERTICAL SLIDE

In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.



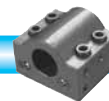
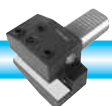
| Code | degrees | stroke | | | | | | | | | | | | | | | | | | | machine | for slide | | | | | | |
|---------|---------|--------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|--|--|---------|-----------|--------|----------|-----------|--|--|--|
| ART. | gradi | corsa | | | | | | | | | | | | | | | | | | | D = 96 | d = 40 | S = 12 | macchina | per carri | | | |
| 421.601 | 60° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | | | | | | | | TRAUB A26 TRAUB A36-42-60 SAIC B45 CASER 42-45-50 | TRAV.-VERT. TRAV. TRAV. TRAV.-VERT. |
| 421.601 | 90° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | | | | | | | | | | | | | | | | |
| 421.601 | 120° | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | | | | | | | | | | | | | | |
| 421.601 | 150° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | | | | | | | | | | | | |
| 421.601 | 180° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | | | | | | | | | | |
| 421.601 | 220° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | | | | | | | | | | |
| 421.601 | 260° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | | | | | | | | | | |

| ART. | gradi | corsa | | | | | | | | | | | | | | | | | | | D = 160 | d = 45 | S = 12 | macchina | per carri | | | |
|---------|-------|-------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|---------|--------|--------|----------|-----------|--|------------------|-------------|
| 421.701 | 90° | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | | | | | | | | | | | | | TRAUB TB30-42-60 | TRAV.-VERT. |
| 421.701 | 120° | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | | | | | | | | |
| 421.701 | 150° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | | | | | | | |
| 421.701 | 180° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | | | | | | | |
| 421.701 | 220° | 0 | | 2 | | 4 | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | | | | | | | |

| ART. | gradi | corsa | | | | | | | | | | | | | | | | | | | D = 90 | d = 45 | S = 10 | macchina | per carri | | | |
|---------|-------|-------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|--|--|--|--------|--------|--------|----------|-----------|--|-----------------|-------|
| 422.101 | 60° | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | TRAUB A15-20-25 | VERT. |
| 422.101 | 90° | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | | |
| 422.101 | 120° | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | | | | | | | | |
| 422.101 | 150° | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | | | | | | | | |
| 422.101 | 180° | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | | |
| 422.101 | 220° | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | | |
| 422.101 | 240° | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | | | |

| ART. | gradi | corsa | | | | | | | | | | | | | | | | | | | D = 80 | d = 46 | S = 10 | macchina | per carri | | | |
|---------|-------|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--|--|--|--------|--------|--------|----------|-----------|--|-----------------------|----------------|
| 422.201 | 60° | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 10 | | | | | | | | | | | | | | | | SAIC B26-30 ITS 26 | VERT. VERT. |
| 422.201 | 90° | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | | |
| 422.201 | 120° | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | | |
| 422.201 | 150° | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | | |
| 422.201 | 180° | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | | | | | | | | |
| 422.201 | 220° | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | | |

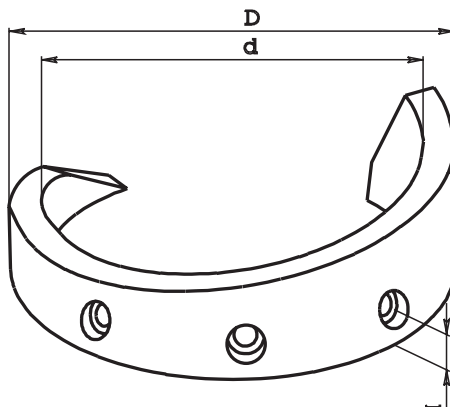
| ART. | gradi | corsa | | | | | | | | | | | | | | | | | | | D = 118 | d = 58 | S = 12 | macchina | per carri | | | |
|---------|-------|-------|---|---|---|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|---------|--------|--------|----------|-----------|--|-----------------|-------|
| 422.601 | 90° | 2 | 4 | 6 | 8 | | | | | | | | | | | | | | | | | | | | | | TRAUB A36-42-60 | VERT. |
| 422.601 | 120° | 2 | 4 | 6 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | |
| 422.601 | 150° | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | | | | | | | | | | | | | | | |
| 422.601 | 180° | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | | | | | | | | | | | | | | |
| 422.601 | 220° | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | | | | | | | | | | | | | | |





CAMME DA ANELLO PER TORNITURA LONGITUDINALE Tipo 430

CAM TUBE FOR TURN ALONG



In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

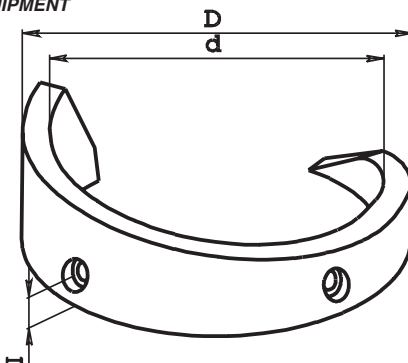
N.B. nelle camme 430.101 disponibili a magazzino l' interasse " l " dei fori è 10 mm . Per le camme che vengono costruite a richiesta del cliente si raccomanda di specificare l' interasse " l " dei fori (10 mm o 15 mm)

| Code | degrees | stroke | | | | | | | | | | | | | | machine | |
|---------|---------|--------|----|----|----|----|----|----|----|----|--|--|--------|--------|--------|----------|--|
| ART. | gradi | corsa | | | | | | | | | | | D = 80 | d = 60 | l = 10 | macchina | |
| 430.101 | 180° | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | | | | | | | | TRAUB A15-20-25 / CASER TA26-30 SAIC B26-30 A26-30-32 GIORGI 20-25-30-32 / ITS 26 |
| 430.101 | 220° | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | | | | | | | |
| 430.101 | 240° | | | 20 | | 30 | | 40 | 50 | 60 | | | | | | | |

| ART. | gradi | corsa | | | | | | | | | | | D = 115 | d = 95 | l = 15 | macchina |
|---------|-------|-------|----|----|----|----|----|----|----|--|--|--|---------|--------|--------|--------------------|
| 430.601 | 180° | 10 | 20 | 30 | 40 | 50 | 60 | | | | | | | | | TRAUB A26-36-42-60 |
| 430.601 | 220° | 10 | 20 | 30 | 40 | 50 | 60 | 70 | | | | | | | | |
| 430.601 | 240° | | | | 40 | | 60 | | 80 | | | | | | | |

CAMME DA ANELLO PER FORARE APPARECCHIO FORA FILETTI Tipo 431

CAM TUBE FOR BORE AND THREAD EQUIPMENT



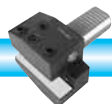
In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

| Code | degrees | stroke | | | | | | | | | | | | | | machine |
|---------|---------|--------|---|----|----|----|----|----|----|----|----|----|---------|--------|--------|-----------------|
| ART. | gradi | corsa | | | | | | | | | | | D = 115 | d = 95 | l = 15 | macchina |
| 431.101 | 100° | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 30 | 35 | | | | TRAUB A15-20-25 |
| 431.101 | 120° | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 30 | 35 | 40 | | | |

| ART. | gradi | corsa | | | | | | | | | | | D = 104 | d = 80 | l = 11 | macchina |
|---------|-------|-------|---|----|----|----|----|----|----|----|----|----|---------|--------|--------------------|----------|
| 431.201 | 90° | 6 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 30 | | | | GIORGI 20-25-30-32 | |
| 431.201 | 120° | 6 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 30 | 35 | | | | |

| ART. | gradi | corsa | | | | | | | | | | | D = 108 | d = 84 | l = 11 | macchina |
|---------|-------|-------|---|----|----|----|----|----|----|----|----|----|---------|--------|--------|--|
| 431.202 | 100° | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 22 | 25 | 28 | 30 | 35 | | | SAIC B26-30 A26-30-32 ITS 26 vecchio tipo |
| 431.202 | 120° | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 22 | 25 | 28 | 30 | 35 | | | |

| ART. | gradi | corsa | | | | | | | | | | | D = 108 | d = 88 | l = 15 | macchina |
|---------|-------|-------|----|----|----|----|----|----|----|----|----|--|---------|--------|-------------------|----------|
| 431.203 | 100° | 10 | 12 | 15 | 18 | 20 | 22 | 25 | 28 | 30 | 35 | | | | ITS 26 nuovo tipo | |
| 431.203 | 120° | 10 | 12 | 15 | 18 | 20 | 22 | 25 | 28 | 30 | 35 | | | | | |





CAMME A DISCO PER IL RIBALTAMENTO APP. FORA FILETTI Tipo 425

CAM DISK FOR BORE AND THREAD EQUIPMENT

Fig. 1

| Code | | | | machine |
|----------|----|----|---|------------------|
| ART. | D | d | S | macchina |
| 425.101A | 90 | 36 | 5 | TRAUB A 15-20-25 |
| 425.101B | 90 | 36 | 5 | TRAUB A 15-20-25 |

In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

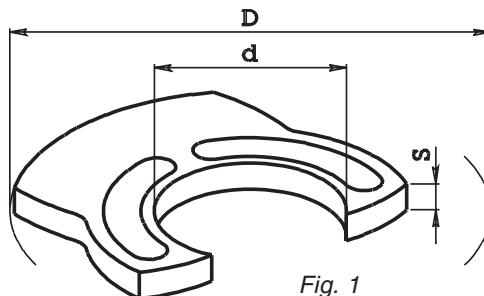


Fig. 2

| Code | degrees | stroke | | | | machine |
|---------|---------|--------|-----|----|----|--------------|
| ART. | gradi | corsa | D | d | S | macchina |
| 425.201 | 120° | C 0 | 88 | 30 | 10 | SAIC B 26-30 |
| 425.201 | 150° | C 0 | | | | |
| 425.201 | 180° | C 0 | | | | |
| 425.201 | 220° | C 0 | | | | |
| 425.204 | 120° | C 0 | 106 | 30 | 12 | ITS 26 |
| 425.204 | 150° | C 0 | | | | |
| 425.204 | 180° | C 0 | | | | |
| 425.204 | 220° | C 0 | | | | |

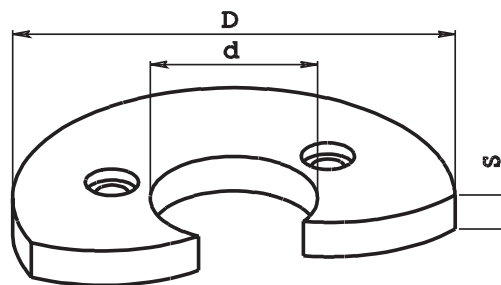


Fig. 2

CAMME DA ANELLO PER IMBOCCO FILETTO APP. FORA FILETTI Tipo 432

CAM TUBE FOR BORE AND THREAD EQUIPMENT

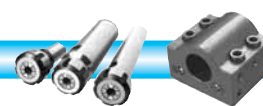
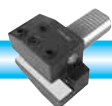
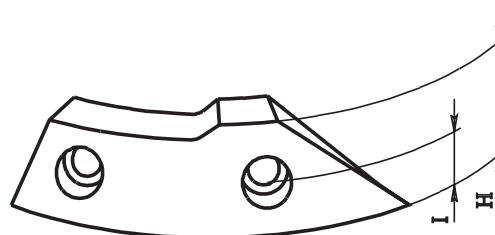
| Code | degrees | | | | | machine |
|---------|---------|----|-----|----|----|---------------------|
| ART. | gradi | H | D | d | l | macchina |
| 432.101 | 40° | 30 | 115 | 95 | 15 | TRAUB A 15-20-25 |
| 432.101 | 50° | | | | | |
| 432.101 | 60° | | | | | |
| 432.101 | 70° | | | | | |
| 432.101 | 80° | | | | | |
| 432.101 | 100° | | | | | |

| ART. | gradi | H | D | d | l | macchina |
|---------|-------|----|-----|----|----|-----------------------|
| 432.201 | 40° | 24 | 104 | 80 | 11 | GIORGI 20-25-30-32 |
| 432.201 | 50° | | | | | |
| 432.201 | 60° | | | | | |
| 432.201 | 70° | | | | | |
| 432.201 | 80° | | | | | |
| 432.201 | 100° | | | | | |

| ART. | gradi | H | D | d | l | macchina |
|---------|-------|----|-----|----|----|-------------------------------|
| 432.202 | 40° | 30 | 108 | 84 | 11 | SAIC B26-30 SAIC A26-30-32 |
| 432.202 | 50° | | | | | |
| 432.202 | 60° | | | | | |
| 432.202 | 70° | | | | | |
| 432.202 | 80° | | | | | |
| 432.202 | 100° | | | | | |

| Code | degrees | | | | | machine |
|---------|---------|----|-----|----|----|----------|
| ART. | GRADI | H | D | d | l | macchina |
| 432.203 | 40° | 30 | 108 | 88 | 15 | ITS 26 |
| 432.203 | 50° | | | | | |
| 432.203 | 60° | | | | | |
| 432.203 | 80° | | | | | |

In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

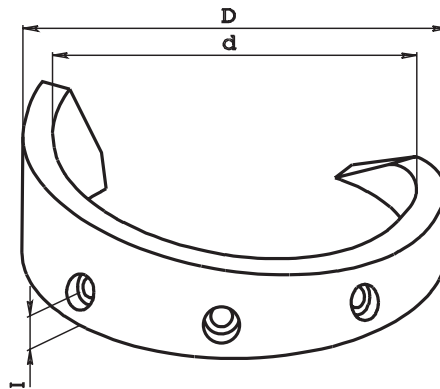




CAMME DA ANELLO PER CONTROPUNTA A FORARE Tipo 433

CAM TUBE FOR BORE TAILSTOCK EQUIPMENT

In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.



NOTA BENE

Le camme art. 433.601 vanno bene anche per la tornitura longitudinale per TRAUB TB 30-42-60

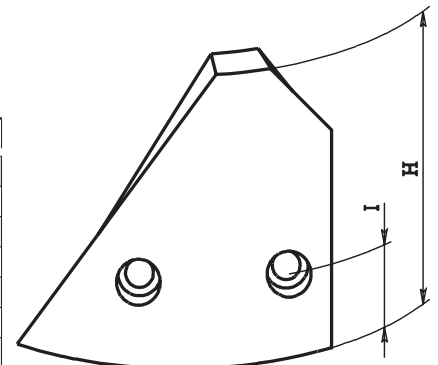
| Code | degrees | stroke | | | | | | | | | | | | | | | | | machine | | | | |
|---------|---------|--------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|---------|---------|----------|----|--|--|
| ART. | gradi | corsa | | | | | | | | | | | | | | | D = 115 | d = 95 | I = 15 | macchina | | | |
| 433.101 | 150° | 0 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 35 | 40 | | | | | | | | TRAUB A15-20-25 |
| 433.101 | 180° | 0 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | | | | |
| 433.101 | 200° | 0 | 5 | | 10 | | 15 | | 20 | | 25 | | 30 | 35 | 40 | 45 | 50 | | 60 | | | | |
| 433.101 | 220° | 0 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | | |
| ART. | gradi | corsa | | | | | | | | | | | | | | | D = 108 | d = 88 | I = 15 | macchina | | | |
| 433.201 | 150° | 0 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 35 | 40 | | | | | | | | GIORGI 20-25-30-32 SAIC A26-30-32 B26-30 ITS 26 |
| 433.201 | 180° | 0 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 35 | 40 | 45 | 50 | | | | | | |
| 433.201 | 220° | 0 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 23 | 25 | 28 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | | | |
| ART. | gradi | corsa | | | | | | | | | | | | | | | D = 150 | d = 125 | I = 20 | macchina | | | |
| 433.601 | 150° | 0 | 5 | 10 | 15 | 20 | 25 | 30 | | | | | | | | | | | | | | | TRAUB A26-36-42-60 TRAUB TB30-42-60 ITS 36-42-60 SAIC B45 |
| 433.601 | 180° | | | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | | | | | | | | | |
| 433.601 | 200° | 0 | | | | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | | | | | | | | | |
| 433.601 | 220° | | | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | | | |

CAMME DA ANELLO PER RITORNO Tipo 437

CAM TUBE FOR RETURN

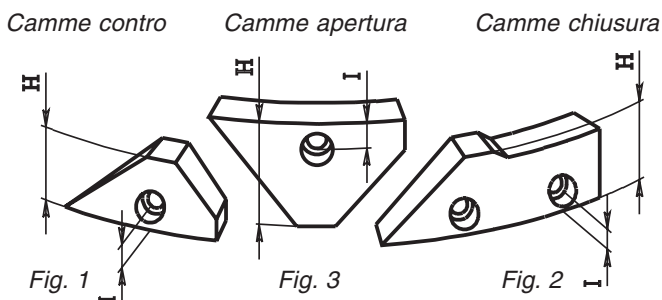
In acciaio temperato. Disponibili a magazzino.
Tempered steel manufactured. Available from warehouse.

| Code | degrees | H | I | for code | function | machine |
|---------|---------|-----|----|----------|---------------|--------------------------------|
| ART. | gradi | H | I | per art. | funzione | macchina |
| 437.101 | 60° | 70 | 20 | 433.101 | CONTROPUNTA | TRAUB A15-20-25 |
| 437.103 | 50° | 49 | 10 | 430.101 | TORN. LONGIT. | TRAUB-SAIC-ITS-GIORGI-CASER-25 |
| 437.104 | 90° | 112 | 20 | 433.103 | CONTROPUNTA | TRAUB TD16-26-36 |
| 437.201 | 56° | 62 | 20 | 433.201 | CONTROPUNTA | SAIC-ITS-GIORGI-20-25-30-32 |
| 437.601 | 90° | 125 | 20 | 433.601 | CONTROPUNTA | TRAUB-SAIC-ITS-36-42-60 |
| 437.602 | 90° | 125 | 20 | 430.205 | TORN. LONGIT. | ITS 36-42-60 |



CAMME AD ANELLO APRI-CHIUDI PINZA Tipo 439

CAM TUBE FOR OPEN-CLOSE COLLET



| Code | Fig. | H | I | machine |
|---------|------|------|------|--|
| ART. | Fig. | H | I | macchina |
| 439.101 | 1 | 24 | 11 | TRAUB-SAIC-ITS-GIORGI 15-20-25-26-30-32 |
| 439.102 | 2 | 32 | 11 | |
| 439.103 | 3 | 29 | 11 | |
| 439.601 | 1 | 32 | 12.5 | TRAUB A 36-42-60 |
| 439.602 | 2 | 35 | 12.5 | |
| 439.603 | 3 | 39 | 12.5 | |
| 439.701 | 1 | 42.5 | 12.5 | TRAUB TB 30-42-60 |
| 439.702 | 2 | 49 | 12.5 | |
| 439.703 | 3 | 47 | 12.5 | |



CAMME A DISCO E DA ANELLO DISPONIBILI A RICHIESTA

CAM DISK AND TUBE ON REQUEST ONLY

| Code | | | | <i>fdor slide</i> | <i>machine</i> | |
|----------|-----|-----|------|------------------------------|-------------------|------|
| ART. | D | d | S | per carri | macchina | Fig. |
| 418.240 | 240 | 40 | 10 | TORRETTA | ATA 40 | 10 |
| 417.150 | 150 | 40 | 10 | TRAV. | ATA 40 | 4 |
| 433.203 | 99 | 78 | 10 | CONTROP.-APP. F.FIL.-TORNIT. | CASER TA 26-30 | 6 |
| 433.243 | 115 | 90 | 16 | CONTROP.-APP. F.FIL.-TORNIT. | CASER TA 45-50 | 6 |
| 418.240 | 240 | 40 | 10 | TORRETTA | DAR 46 | 10 |
| 417.180 | 180 | 40 | 10 | VERT. - TRAV. | DAR 46 | 4 |
| 433.220 | 100 | 81 | — | CONTROPUNTA | FEINLER 10-15 | 8 |
| 422.202 | 96 | 44 | 10 | VERT. | GIORGI 20-25-32 | 1 |
| 418.120 | 120 | 30 | 6 | TORRETTA | INDEX DG 12 | 10 |
| 418.090 | 90 | 30 | 6 | VERT. - TRAV. | INDEX DG 12 | 4 |
| 418.166 | 166 | 32 | 8 | TORRETTA | INDEX 12-18-25 | 10 |
| 417.125 | 124 | 42 | 8 | VERT. | INDEX 12-18-25 | 4 |
| 417.125B | 124 | 32 | 8 | TRAV. | INDEX 12-18-25 | 4 |
| 418.220 | 220 | 32 | 8 | TORRETTA | INDEX C 19-29 | 10 |
| 417.140 | 140 | 36 | 8 | VERT. - TRAV. | INDEX C 19-29 | 4 |
| 418.240 | 240 | 40 | 10 | TORRETTA | INDEX 24-36-52 | 10 |
| 418.240 | 240 | 40 | 10 | TORRETTA | INDEX B 42-60 | 10 |
| 417.150 | 150 | 50 | 10 | VERT. | INDEX 24-36-52 | 4 |
| 417.150B | 150 | 40 | 10 | TRAV. | INDEX 24-36-52 | 4 |
| 417.150B | 150 | 40 | 10 | VERT. - TRAV. | INDEX B 42-60 | 4 |
| 422.205 | 110 | 45 | 12 | VERT. | ITS 36 | 1 |
| 418.240 | 240 | 40 | 10 | TORRETTA | LOGOS 42-52 | 10 |
| 417.150 | 150 | 40 | 10 | TRAV. | LOGOS 42-52 | 4 |
| 422.801 | 123 | 64 | 12 | VERT. | SAIC B 45 | 1 |
| 421.805 | 115 | 48 | 12 | TRAV. | SAIC 50 | 1 |
| 433.809 | 139 | 115 | 13 | CONTROPUNTA | SAIC 50 | 5 |
| 417.125C | 125 | 28 | 8 | VERT. | STROHM 75-125 | 3 |
| 419.180 | 180 | 20 | 8 | FANTINA | STROHM 75-125 | 11 |
| 417.125D | 125 | 20 | 8 | BASCULA | STROHM 75-125 | 3 |
| 419.260 | 260 | 26 | 10 | FANTINA | STROHM 205-255 | 11 |
| 417.175B | 175 | 26 | 10 | BASCULA | STROHM 205-255 | 3 |
| 417.175 | 175 | 35 | 10 | VERT. | STROHM 205-255 | 3 |
| 418.240 | 240 | 40 | 10 | TORRETTA | TAREX 42-52 | 10 |
| 417.150 | 150 | 40 | 10 | TRAV. | TAREX 42-52 | 4 |
| 421.103 | 130 | 40 | 8 | VERT. - TRAV. | TRAUB TD 16-26-36 | 2 |
| 433.103 | 130 | 110 | 12.5 | CONTROPUNTA | TRAUB TD 16-26-36 | 5 |
| 434.130 | 130 | 110 | 12.5 | TORRETTA | TRAUB TD 16-26-36 | 7 |
| 435.090 | 90 | 70 | — | PETTINA FILETTI | TRAUB TD 16-26-36 | 9 |
| 434.115 | 115 | 95 | 15 | TORRETTA | TRAUB A 25 | 7 |
| 434.150 | 150 | 125 | 20 | TORRETTA | TRAUB TB 30-42-60 | 7 |
| 435.120 | 120 | 95 | — | PETTINA FILETTI | TRAUB TB 30-42-60 | 9 |

Fig. 1



Fig. 2

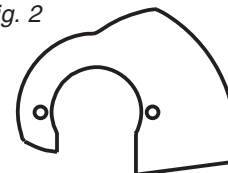


Fig. 3

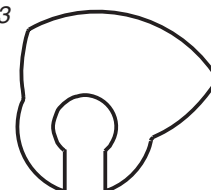


Fig. 4



Fig. 5

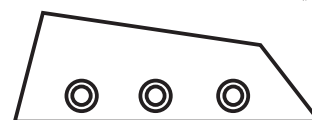


Fig. 6

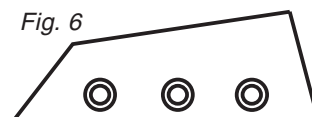


Fig. 8



Fig. 9



Fig. 7

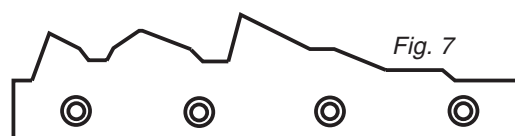


Fig. 11

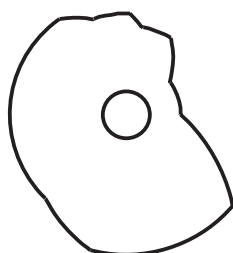
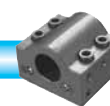
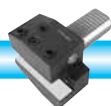
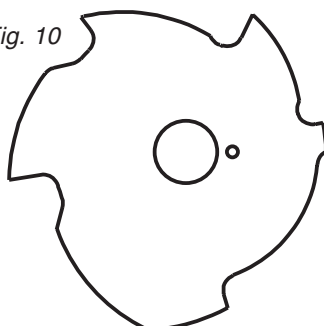


Fig. 10

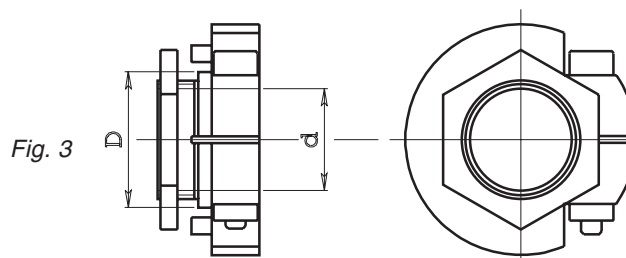
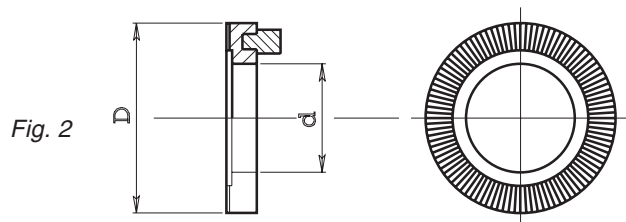
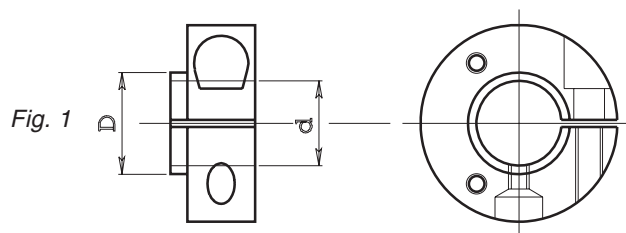




PORTA CAMME A DISCO Tipo 500

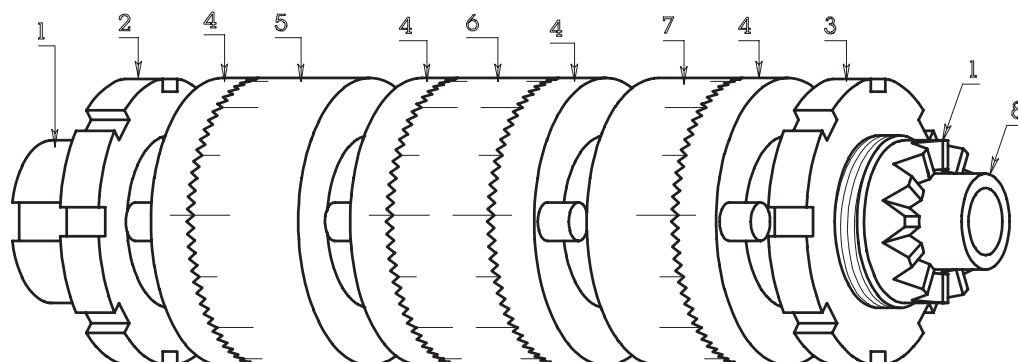
CAM DISK HOLDERS

| Code | | | | type | machine |
|----------|----|----|------|---------------|-------------------|
| ART. | D | d | Fig. | per carri | macchina |
| 500.001 | 40 | 30 | 3 | TRAV. - VERT. | TRAUB TD16-26-36 |
| 500.101 | 30 | 25 | 1 | TRAV. | TRAUB A15-20-25 |
| 500.102 | 45 | 25 | 1 | VERT. | TRAUB A15-20-25 |
| 500.103 | 36 | 25 | 1 | APP. F. FIL. | TRAUB A15-20-25 |
| 500.201 | 30 | 25 | 1 | TRAV. | SAIC B26 / ITS 26 |
| 500.202 | 46 | 25 | 1 | VERT. | SAIC B26 / ITS 26 |
| 500.601 | 40 | 32 | 1 | TRAV. | TRAUB A36-42-60 |
| 500.602 | 58 | 32 | 1 | VERT. | TRAUB A36-42-60 |
| 500.701 | 45 | 35 | 1 | TRAV. - VERT. | TRAUB TB42-60 |
| 500.315 | 50 | 30 | 2 | TRAV. | INDEX DG 12 |
| 500.340 | 56 | 32 | 2 | TRAV. | INDEX 12-18-25 |
| 500.340B | 66 | 42 | 2 | VERT. | INDEX 12-18-25 |
| 500.345 | 60 | 36 | 2 | TRAV. - VERT. | INDEX C19-29 |
| 500.360 | 68 | 40 | 2 | TRAV. | INDEX 36-52 |
| 500.360 | 68 | 40 | 2 | TRAV. - VERT. | INDEX B42-60 |
| 500.360B | 78 | 50 | 2 | VERT. | INDEX 36-52 |

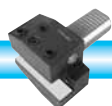


ALBERO COMPLETO PORTA CAMME Tipo 686.3

CAM DISC SHAFT



| N | description | Index C 19-29 Code | Index B 30-42-60 Code |
|------|---|--------------------|-----------------------|
| ART. | descrizione | INDEX C 19-29 | INDEX B 30-42-60 |
| A | ALBERO PORTA CAMME COMPLETO DEGLI ART. DAL N.1 AL N.8 | 686.345 | 686.360 |
| 1 | albero | 686.345A | 686.360A |
| 2 | ghiera con filetto sinistro | 593.345S | 593.360S |
| 3 | ghiera con filetto destro | 593.345D | 593.360D |
| 4 | anello dentato per camme trasversali | 500.345 | 500.360 |
| 5 | anello dentato | 500.345D | 500.360D |
| 6 | anello dentato doppio | 500.345E | 500.360E |
| 7 | anello dentato | 500.345C | 500.360C |
| 8 | boccola di guida | 686.345B | 686.360B |





PORTA CAMME AD ANELLO Tipo 502 - 504 - 506 - 508

CAM TUBE HOLDERS

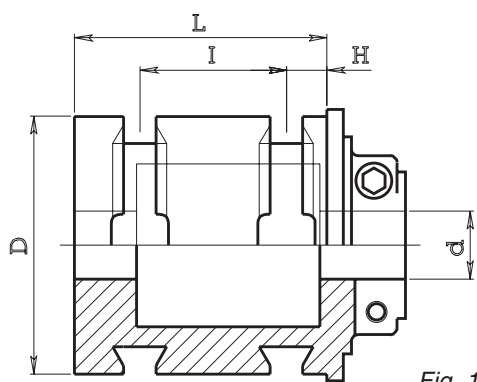


Fig. 1

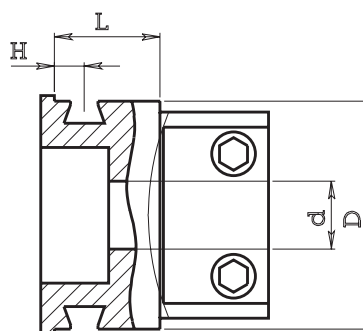


Fig. 2

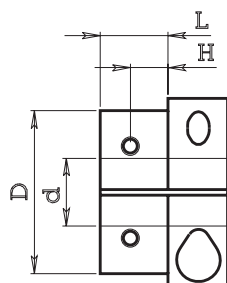


Fig. 3

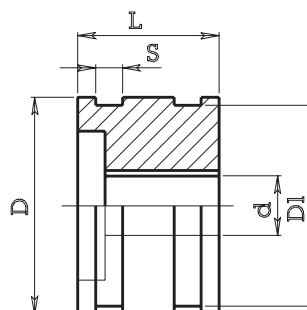


Fig. 4

PER CONTROPUNTA FOR TAILSTOCK

| ART. (Code) | D | d | L | H | I | Fig. | macchina (machine) |
|-------------|-----|----|-----|------|-----|------|--|
| 502.001 | 110 | 30 | 132 | 12.5 | 100 | 1 | TRAUB TD16-26-36 |
| 502.101 | 95 | 25 | 93 | 15 | 54 | 1 | TRAUB A15-20-25 |
| 502.201 | 88 | 25 | 82 | 15 | 50 | 1 | SAIC B26-30 A26-30-32 / ITS 26 / GIORGI 20-25-32 |
| 502.601 | 125 | 40 | 158 | 20 | 112 | 1 | TRAUB A36-42-60 / SAIC B45 / ITS 36-42 (NB1) |
| 502.701 | 125 | 35 | 158 | 20 | 112 | 1 | TRAUB TB30-42-60 |

PER APPARECCHIO FORA FILETTI FOR BORE AND THREAD EQUIPMENT

| ART. (Code) | D | d | L | H | Fig. | macchina (machine) |
|-------------|----|----|----|----|------|----------------------|
| 502.101 | 95 | 25 | 93 | 15 | 1 | TRAUB A15-20-25 |
| 504.201 | 84 | 25 | 39 | 11 | 2 | SAIC B26-30 / ITS 26 |
| 504.202 | 88 | 25 | 39 | 15 | 2 | ITS 26 |

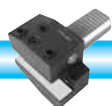
PER TORNITURA LONGITUDINALE FOR TURN ALONG

| ART. (Code) | D | d | L | H | Fig. | macchina (machine) | |
|-------------|----------------------|----|-----|----|------|--|------------------|
| 506.101 | 60 | 25 | 25 | 10 | 3 | TRAUB A15-20-25 / ITS 26 / GIORGI 20-25-32 | |
| 506.201 | 60 | 25 | 25 | 15 | 3 | SAIC B26 / ITS 26 / GIORGI 20-25-32 | |
| 506.601 | 95 | 32 | 100 | 15 | 2 | TRAUB A36-42-60 | |
| 506.701 | 125 | 35 | 158 | 20 | 1 | TRAUB TB30-42-60 | |
| 500.001 | VEDI PAG. PRECEDENTE | | | | | | TRAUB TD16-26-36 |

PER APRI-CHIUDI PINZA FOR OPEN-CLOSE COLLET

| ART. (Code) | D | D1 | d | S | L | Fig. | macchina (machine) |
|-------------|-----|-----|----|----|----|------|--------------------|
| 508.001 | 115 | 110 | 30 | 54 | 73 | 4 | TRAUB TD16-26-36 |
| 508.101 | 80 | 74 | 20 | 10 | 52 | 4 | TRAUB A15-20-25 |
| 508.201 | 80 | 74 | 22 | 10 | 52 | 4 | SAIC B26 |
| 508.601 | 120 | 110 | 28 | 15 | 72 | 4 | TRAUB A36-42-60 |
| 508.701 | 140 | 130 | 30 | 15 | 92 | 4 | TRAUB TB30-42-60 |

(N.B.1) Per ITS 36-42 bisogna poi usare i tasselli 510.601 descritti a pag. 151





TASSELLI PER BLOCCAGGIO CAMME Tipo 510

DOWELS FOR TIGHTEN UP CAM

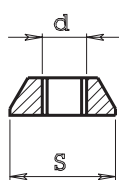


Fig. 1

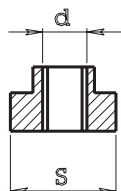
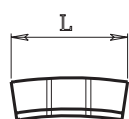


Fig. 2

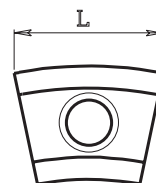
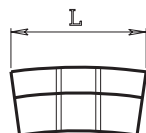
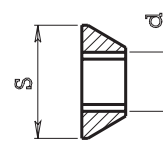


Fig. 3



| Code | | | | | machine | for cam |
|---------|-----|------|------|------|-----------------------------|---------------------------------|
| ART. | d | S | L | Fig. | macchina | per camme |
| 510.101 | 6MA | 18 | 19.5 | 1 | TRAUB A15-20-25 TD 16-26-36 | CONTROPUNTA / APP. FORA FILETTI |
| 510.201 | 6MA | 15 | 22 | 1 | SAIC B26 / ITS 26 | CONTROPUNTA / APP. FORA FILETTI |
| 510.202 | 8MA | 15.5 | 22 | 1 | CASER TA26-30 | CONTROPUNTA / APP. FORA FILETTI |
| 510.203 | 8MA | 16 | 29 | 2 | ITS 36-42-60 | CONTROPUNTA / TORRETTA |
| 510.201 | 6MA | 15 | 22 | 1 | GIORGI 20-25-32 | CONTROPUNTA |
| 510.207 | 6MA | 19 | 20 | 1 | GIORGI 20-25-32 | APP. FORA FILETTI |
| 510.301 | 5MA | 11.2 | 14 | 1 | STROHM 75-105-125 | APP. TRE MANDRINI |
| 510.302 | 6MA | 11.2 | 14 | 1 | STROHM 75-105-125 | APP. TRE MANDRINI |
| 510.303 | 8MA | 21 | 24 | 1 | STROHM 205-255 | APP. TRE MANDRINI |
| 510.304 | 6MA | 11.5 | 15 | 3 | STROHM 75-105-125 | CARRI VERT. |
| 510.601 | 8MA | 20 | 23 | 1 | TRAUB A36-42-60 TB30-42-60 | CONTROPUNTA / TORRETTA |

TASTATORI Tipo 512

PALPITATING FINGERS

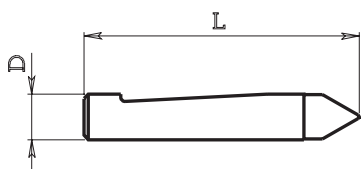


Fig. 1

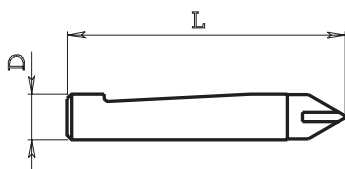


Fig. 2



Fig. 3

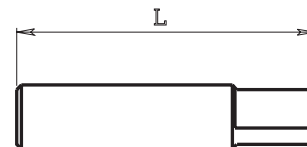
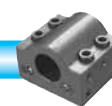
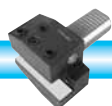


Fig. 2: Tastatore con placchetta in metallo duro
Palpating finger with hard metal tip

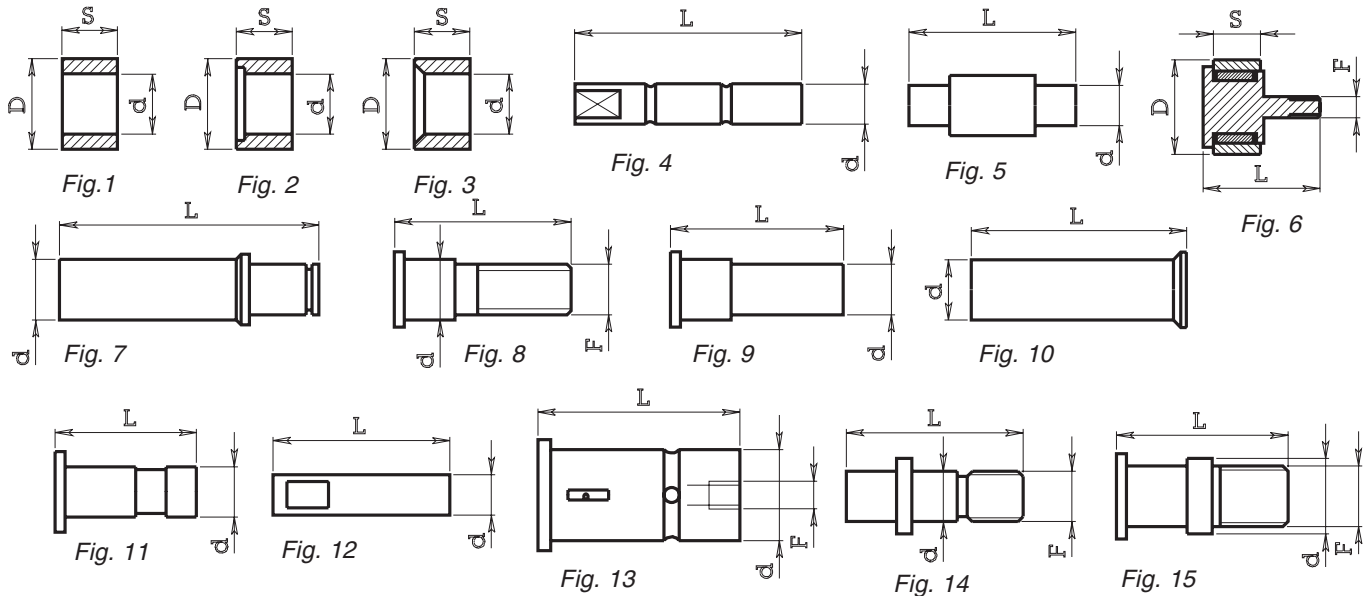
| Code | | | | for slide | machine |
|---------|----|----|------|-------------------|--|
| ART. | D | L | Fig. | per carri | macchina |
| 512.033 | 10 | 65 | 2 | — | BECHLER AR 10 |
| 512.101 | 10 | 60 | 1 | VERT. - ORIZZ. | TRAUB A15-20-25 TD16-26-36 |
| 512.101 | 10 | 60 | 1 | VERT. - ORIZZ. | SAIC B26-30 / ITS 26 / GIORGI 25-32 |
| 512.105 | 12 | 55 | 3 | TORNIT. LONGITUD. | TRAUB A15-20-25 / SAIC B26-30 / ITS 26 |
| 512.110 | 10 | 60 | 2 | VERT. - ORIZZ. | TRAUB A15-20-25 TD16-26-36 / SAIC B26-30 / ITS 26 / GIORGI 25-32 |
| 512.301 | 7 | 27 | 2 | — | STROHM 125 |
| 512.601 | 12 | 75 | 1 | VERT. - ORIZZ. | TRAUB A36-42-60 / SAIC B45 / ITS 36-42-60 |
| 512.601 | 12 | 75 | 1 | VERT. | TRAUB TB 30-42-60 |
| 512.605 | 14 | 65 | 3 | TORNIT. LONGITUD. | TRAUB A36-42-60 |
| 512.610 | 12 | 75 | 2 | VERT. - ORIZZ. | TRAUB A36-42-60 / SAIC B45 / ITS 36-42-60 |
| 512.610 | 12 | 75 | 2 | VERT. | TRAUB TB30-42-60 |
| 512.701 | 16 | 64 | 1 | ORIZZ. | TRAUB TB30-42-60 |



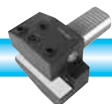


PERNI E RULLI Tipo 514

PINS AND IDLER



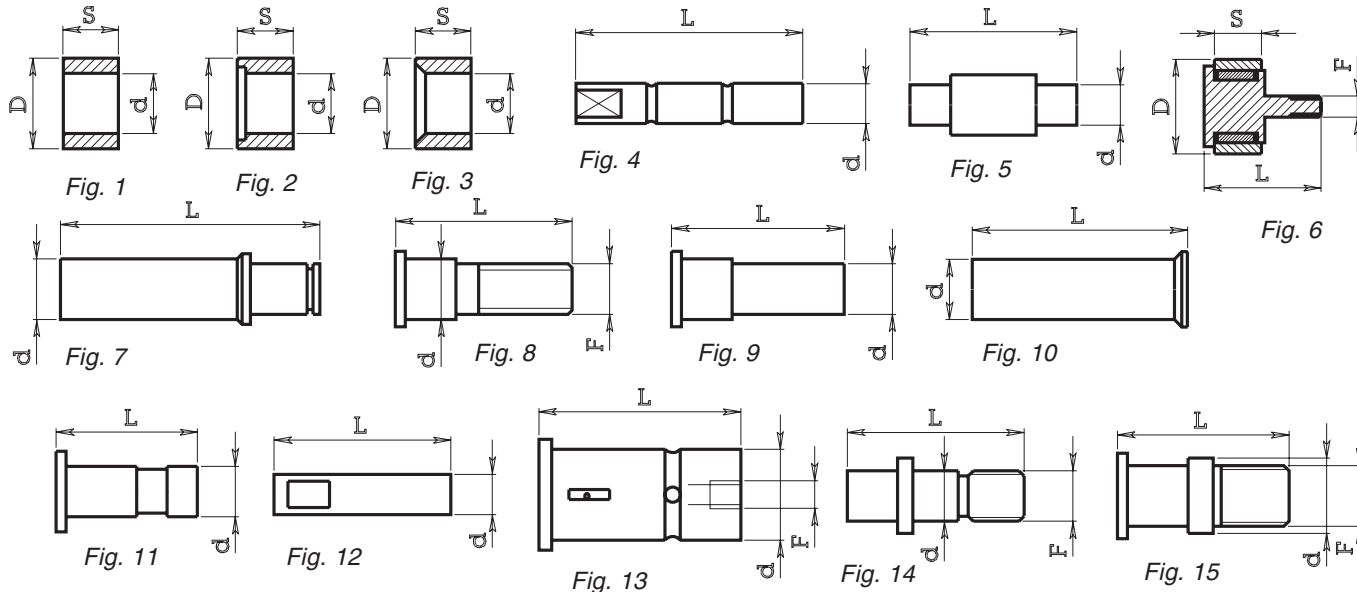
| Pin | | | | | Idler | | | | | small idlers | complete code | machine | equipment |
|----------|-------|------|------|------|-----------|------|------|------|------|--------------|---------------|----------------------|----------------------------------|
| PERNO | | | | | RULLO | | | | | ART. | | macchina | apparecchio |
| ART. | d | L | F | Fig. | ART. | D | d | S | Fig. | rullini | COMPL. | | |
| 514.016 | 10 | 40 | — | 4 | 514.016B | 17 | 10 | 14 | 1 | — | — | ATA 25-40 | torretta / carri vert.-orizz. |
| 514.531 | 6.35 | 33 | — | 12 | 514.532 | 12.8 | 6.35 | 9.2 | 1 | — | — | BROWN e SHARPE | — |
| 514.533 | 7 | 32 | — | 4 | 514.534 | 14 | 7 | 11.7 | 1 | — | — | BROWN e SHARPE | — |
| 514.535 | 8 | 30.5 | — | 4 | 514.536 | 14 | 8 | 11.7 | 1 | — | — | BROWN e SHARPE | — |
| 514.291 | 12 | 26 | 10x1 | 8 | 514.292 | 18 | 12 | 11 | 2 | — | — | CASER 26-30 | controp. / app.f.f. / a.c.pinza |
| 514.551 | 8 | 30 | — | 4 | 514.147B1 | 18 | 8 | 12 | 1 | — | — | DAR 46 | carri vert.-orizz. post. |
| — | — | — | — | — | 514.147B2 | 18 | 8 | 22 | 1 | — | — | DAR 46 | carri orizz. ant. |
| — | — | — | — | — | 514.147B3 | 16 | 8 | 10 | 1 | — | — | DAR 46 | a.c. pinza |
| 514.941 | 8 | 46 | — | 4 | 514.942 | 18 | 8 | 14 | 1 | — | — | DAR 46 | torretta |
| 514.511 | 10 | 37.5 | 10MA | 14 | 514.512 | 18 | 10 | 10 | 1 | — | — | FEINLER 10-15 | contropunta |
| — | — | — | — | — | 514.513 | 16 | 8 | 8 | 1 | — | — | FEINLER 10-15 | — |
| 514.461A | 8 | 32 | — | 12 | 514.462 | 20 | 8 | 10 | 1 | — | — | GILDEMEISTER | — |
| 514.461B | 8 | 45 | — | 12 | 514.462 | 20 | 8 | 10 | 1 | — | — | GILDEMEISTER | — |
| 514.471 | 10 | 33 | — | 9 | 514.472 | 25 | 12 | 10 | 2 | — | — | GILDEMEISTER | — |
| 514.475 | 15 | 52 | — | 11 | 514.476 | 30 | 15 | 15 | 2 | — | — | GILDEMEISTER | — |
| 514.481 | 18 | 40 | 5MA | 13 | 514.482 | 29.5 | 18 | 13 | 2 | — | — | GILDEMEISTER | — |
| 514.485 | 20 | 45 | 6MA | 13 | 514.486 | 30 | 20 | 15 | 2 | — | — | GILDEMEISTER | — |
| 514.241 | 11 | 36 | 10MA | 8 | 514.242 | 17 | 11 | 14 | 2 | — | — | GIORGI 20-25-32 | controp. / a.c. pinza |
| 514.261 | 10 | 62 | — | 9 | 514.262 | 16 | 10.5 | 12 | 1 | — | — | GIORGI 20-25-32 | app.f.f. |
| 514.101 | 12 | 52 | — | 7 | 514.112 | 16 | 12 | 10 | 1 | — | 514.100 | ITS 26 | tornit. longit. |
| 514.251 | 10 | 37 | — | 9 | 514.242 | 17 | 11 | 14 | 2 | — | — | ITS 26 | controp. / app.f.f. / a.c. pinza |
| 514.271 | 12 | 42 | — | 10 | 514.272 | 18 | 12 | 12 | 3 | — | — | ITS 26 | contropunta |
| 514.271 | 12 | 42 | — | 10 | 514.272 | 18 | 12 | 12 | 3 | — | — | ITS 36-42-60 | torretta |
| 514.281 | 12 | 66 | — | 10 | 514.272 | 18 | 12 | 12 | 3 | — | — | ITS 36-42-60 | controp. / a.c. pinza |
| 514.551 | 8 | 30 | — | 4 | 514.147B1 | 18 | 8 | 12 | 1 | — | — | LOGOS 42-52 | torretta / carri vert.-orizz. |
| 514.016 | 10 | 40 | — | 4 | 514.557B1 | 18 | 10 | 14 | 1 | — | — | MAS 32-40-50 | carri vert.-orizz. |
| 514.101 | 12 | 52 | — | 7 | 514.112 | 16 | 12 | 10 | 1 | — | 514.100 | SAIC B26 | tornit. longit. |
| 514.231 | 12 | 31 | 10MA | 8 | 514.232 | 18 | 12 | 10 | 2 | — | — | SAIC B26-30 | controp. / app.f.f. |
| 514.251 | 10 | 37 | — | 9 | 514.242 | 17 | 11 | 14 | 2 | — | — | SAIC B26-30 | a.c. pinza |
| 514.471B | 10/12 | 28 | — | 9 | — | — | — | — | — | — | — | GILDEMEISTER | — |
| 514.475B | 15 | 40 | — | 11 | 514.476 | 30 | 15 | 15 | 2 | — | — | GILDEMEISTER GM32/45 | carri vert.-trav. |
| 514.475C | 15 | 55 | — | 11 | 514.476 | 30 | 15 | 15 | 2 | — | — | GILDEMEISTER GM32/45 | carri a tornire |



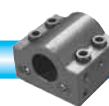
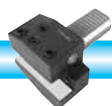


PERNI E RULLI Tipo 514

PINS AND IDLERS



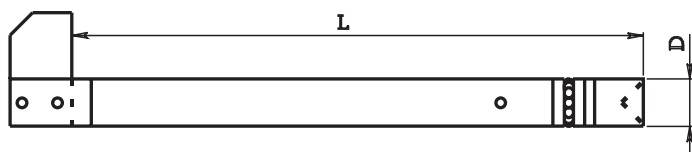
| Pin | | | | | Idler | | | | | small idlers | complete code | machine | equipment |
|----------|------|----|--------|------|----------|------|------|------|------|--------------|---------------|---------------------|---|
| PERNO | | | | | RULLO | | | | | | ART. | macchina | apparecchio |
| ART. | d | L | F | Fig. | ART. | D | d | S | Fig. | rullini | COMPL. | | |
| 514.211 | 12 | 23 | 8MA | 8 | 514.212 | 18 | 12 | 12 | 2 | — | — | SAIC A30 | controp. / a.c. pinza |
| — | — | 32 | 8MA | 6 | — | 19 | — | 11 | 6 | KR 19 | 514.220 | SAIC A30 | controp. / a.c. pinza |
| 514.421 | 8 | 43 | — | 4 | 514.422 | 18 | 8 | 18 | 1 | — | — | TAREX 42-52 | torretta / carri vert.-orizz. |
| 514.101 | 12 | 52 | — | 7 | 514.112 | 16 | 12 | 10 | 1 | — | 514.100 | TRAUB A15-20-25 | tornit. longit. |
| 514.111 | 12 | 23 | 10MA | 8 | 514.112 | 16 | 12 | 10 | 1 | — | — | TRAUB A15-20-25 | app.f.f. |
| 514.121 | 12 | 36 | 10MA | 8 | 514.112 | 16 | 12 | 10 | 1 | — | — | TRAUB A15-20-25 | controp. / a.c. pinza |
| 514.711 | 12 | 23 | 10MA | 15 | 514.112 | 16 | 12 | 10 | 1 | 1x8 | 514.710 | TRAUB A15-20-25 | app.f.f. |
| 514.011 | 10 | 28 | — | 11 | 514.012 | 20 | 10 | 8 | 1 | — | — | TRAUB TD16-26-36 | torretta / controp. / a.c.pinza |
| 514.011 | 10 | 28 | — | 11 | 514.012B | 20 | 13 | 8 | 1 | 1.5x8 | 514.010B | TRAUB TD16-26-36 | torretta / controp. / a.c.pinza |
| 514.021 | 8 | 33 | — | 5 | Z714.010 | 12 | 8 | 10 | 1 | BK 0810 | — | TRAUB TD16-26-36 | guida asta ingr.conico torret. |
| — | — | 28 | 6x1 | 6 | — | 16 | — | 11 | 6 | KR 16 | 514.030 | TRAUB TD16-26-36 | pettina filetti |
| 514.601 | 14 | 52 | — | 7 | 514.112 | 16 | 12 | 10 | 1 | — | 514.600 | TRAUB A36-42-60 | tornit. longit. |
| 514.611 | 15 | 40 | 12MA | 8 | 514.612 | 25 | 15 | 14 | 2 | — | — | TRAUB A36-42-60 | controp. / tor.longit./a.c.pinza |
| 514.711 | 12 | 23 | 10MA | 15 | 514.112 | 16 | 12 | 10 | 1 | 1x8 | 514.710 | TRAUB TB30-42-60 | fermo barra |
| 514.721 | 15 | 34 | 12MA | 15 | 514.722 | 22 | 15 | 11.7 | 2 | 1.5x12 | 514.720 | TRAUB TB30-42-60 | controp. / torretta / torretta longit. / a.c. pinza |
| — | — | — | — | — | 514.723 | 20 | 15 | 11.7 | 2 | — | — | TRAUB TB30-42-60 | torretta |
| 514.021 | 8 | 33 | — | 5 | Z714.010 | 12 | 8 | 10 | 1 | BK 0810 | — | TRAUB TB30-42-60 | guida asta ingr.conico torret. |
| 514.877A | 11,5 | 32 | — | 9 | 514.877B | 21 | 14,5 | 12 | 1 | 1.5x12 | 514.877 | TRAUB CNC150 | — |
| 514.911 | 6 | 28 | — | 4 | 514.912 | 14 | 6 | 8 | 1 | — | — | INDEX ON12-DG12 | torretta / carri vert.-orizz. |
| — | — | — | — | — | 514.913 | 16 | 8 | 7.5 | 1 | — | — | INDEX ON-OR12 | — |
| 514.921 | 6 | 37 | — | 4 | 514.922 | 14 | 6 | 12 | 1 | — | — | INDEX 12-18-25 | torretta / carri vert.-orizz. |
| 514.931 | 7 | 40 | — | 4 | 514.932 | 16 | 7 | 12 | 1 | — | — | INDEX 24-C19-C29 | torretta / carri vert.-orizz. |
| 514.941 | 8 | 46 | — | 4 | 514.942 | 18 | 8 | 14 | 1 | — | — | INDEX 36-52 | torretta / carri vert.-orizz. |
| 514.941 | 8 | 46 | — | 4 | 514.942 | 18 | 8 | 14 | 1 | — | — | INDEX B30-42-60 | torretta / carri vert.-orizz. |
| 514.980A | 7 | 24 | 6x0.75 | 8 | 514.980B | 12.8 | 9 | 8 | 1 | — | 514.980 | INDEX12-18-25-C19 | scatto torretta (doppio) |
| 514.981A | 6 | 22 | 6x0.75 | 8 | 514.981B | 10.8 | 7 | 7 | 1 | — | 514.981 | INDEX OR12-DG12 | scatto torretta (doppio) |
| 514.990A | 9 | 32 | 8x1 | 8 | 514.990B | 17.8 | 12 | 10 | 1 | — | 514.990 | INDEX C29 24-36-52 | scatto torretta (doppio) |
| 514.990A | 9 | 32 | 8x1 | 8 | 514.990B | 17.8 | 12 | 10 | 1 | — | 514.990 | INDEX C29 B30-42-60 | scatto torretta (doppio) |
| 514.111 | 12 | 23 | 10MA | 8 | 514.112 | 16 | 12 | 10 | 1 | — | — | SAIC A30 | controp. / a.c.pinza |
| 514.711 | 12 | 23 | 10MA | 15 | 514.112 | 16 | 12 | 10 | 1 | 1x8 | 514.710 | SAIC A30 | controp. / a.c.pinza |
| 514.811 | 18 | 45 | 14MA | 8 | 514.812 | 25 | 18 | 14 | 2 | — | — | SAIC B45 | controp. / a.c.pinza |



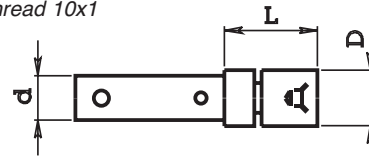


BANDIERINE SPINGIBARRA Tipo 516

REVOLVING FEED FINGERS



- (A) = Bandierina con un rotante
Feed finger with 1 revolving
- (B) = Bandierina con due rotanti
Feed finger with 2 revolving
- (C) = Bandierina con filetto 10x1
Feed finger with thread 10x1



| ART. (Code) | D | L | macchina (machine) | |
|-------------|-------|-----|-------------------------|-----|
| 516.101 | 14 | 480 | TRAUB A15 / FEINLER 15 | (A) |
| 516.102 | 14 | 480 | TRAUB A15 / FEINLER 15 | (B) |
| 516.103 | 20 | 450 | TRAUB A20 | (A) |
| 516.104 | 20 | 450 | TRAUB A20 | (B) |
| 516.105 | 24 | 500 | TRAUB A25 | (A) |
| 516.106 | 24 | 500 | TRAUB A25 | (B) |
| 516.201 | 25 | 525 | CASER TA26 | (A) |
| 516.202 | 27/24 | 410 | SAIC B26 | (A) |
| 516.303 | 12 | 690 | STROHM 125 | (A) |
| 516.601 | — | — | TRAUB A42 (a richiesta) | (B) |
| 516.801 | — | — | SAIC B45 (a richiesta) | (A) |
| 516.512 | 12 | 665 | IEMCA CS12 | (C) |

| ART. (Code) | D | d | L | per bandierina (for feed finger) |
|-------------|------|----|----|---------------------------------------|
| 516.107 | 14.5 | 12 | 23 | 516.101 - 516.102 |
| 516.108 | 20 | 16 | 28 | 516.103 - 516.104 |
| 516.109 | 24 | 20 | 38 | 516.105 - 516.106 - 516.201 - 516.202 |
| 516.110 | 12 | 10 | 46 | 516.303 |
| 516.111 | 40 | 35 | 45 | 516.601 |
| 516.112 | 42 | 35 | 45 | — |
| 516.113 | 45 | 35 | 45 | 516.801 |

ROTANTI PER CARICATORI Tipo 516 e Tipo 517

BARLOADER REVOLVINGS

I rotanti per caricatori sono descritti a pag. 11 e 13
Bar loader revolvings are listed on pag. 11 and 13



Fig. 1

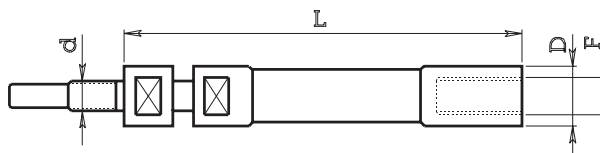


Fig. 2

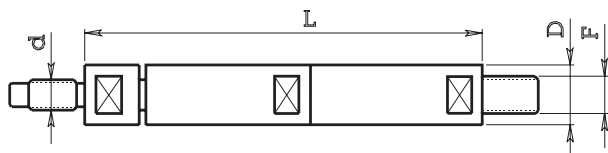


Fig. 3

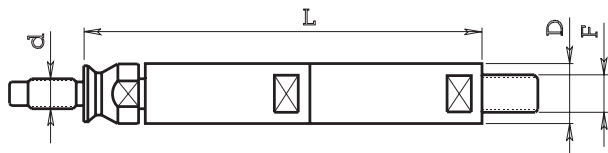
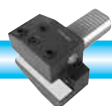
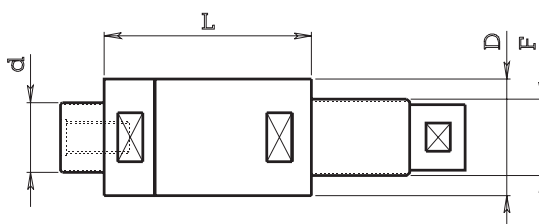


Fig. 4





VITI SENZA FINE Tipo 520 e RUOTE ELICOIDALI Tipo 522

WORM AND WORM WHEEL

Ruote elicoidali costruite in bronzo Durflex
Worm wheel Durflex bronze manufactured

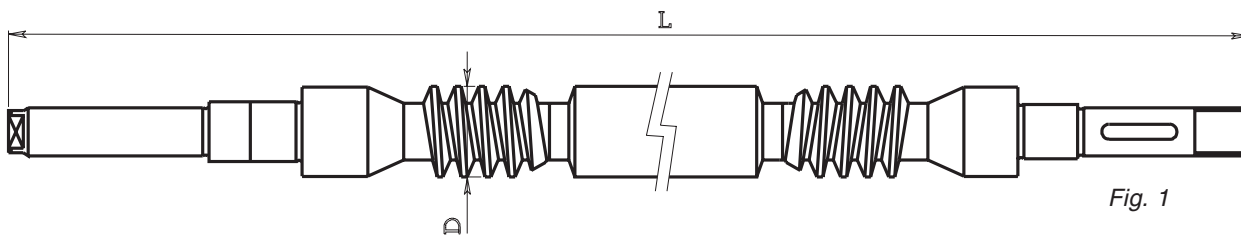


Fig. 1

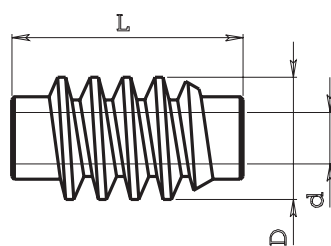


Fig. 2

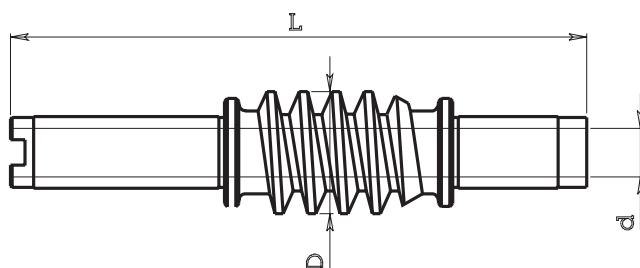


Fig. 3

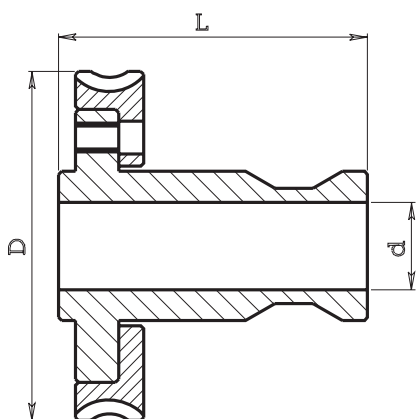


Fig. 4

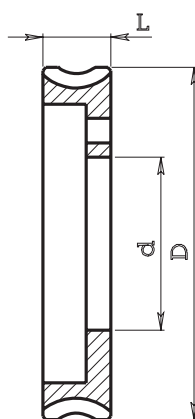


Fig. 5

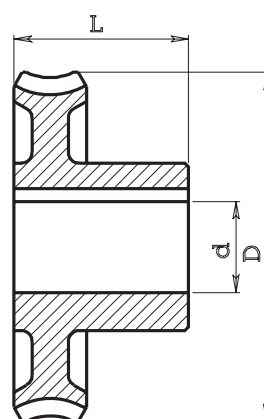


Fig. 6

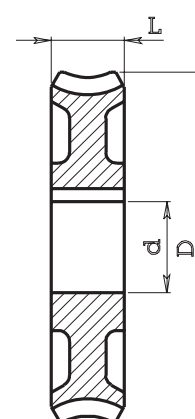
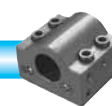
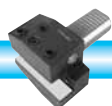


Fig. 7

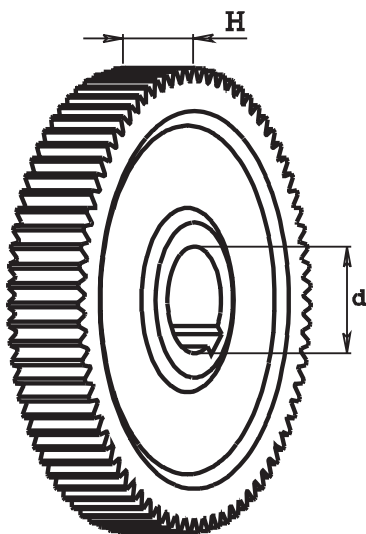
| Worm code | | | | spiral | | Worm wheel code | | | | spiral | | machine |
|-------------------|----|------|-----|--------|------|-----------------|----|------|-----|--------|------|-------------------------------|
| ART. vite s. fine | d | D | L | elica | Fig. | ART. corona | d | D | L | elica | Fig. | macchina |
| 520.001 | — | 30 | 584 | Dx-Sx | 1 | 522.001D | 30 | 114 | 100 | Dx | 4 | TRAUB TD16-26-36 (Post.) |
| 520.001 | — | 30 | 584 | Dx-Sx | 1 | 522.001S | 30 | 114 | 100 | Sx | 4 | TRAUB TD16-26-36 (Ant.) |
| 520.001 | — | 30 | 584 | Dx-Sx | 1 | 522.002D | 56 | 114 | 22 | Dx | 5 | TRAUB TD16-26-36 (Post.) |
| 520.001 | — | 30 | 584 | Dx-Sx | 1 | 522.002S | 56 | 114 | 22 | Sx | 5 | TRAUB TD16-26-36 (Ant.) |
| 520.101 | 20 | 40 | 60 | Dx | 2 | 522.101 | 25 | 96 | 48 | Dx | 6 | TRAUB A15-20-25 |
| 520.201 | 20 | 40 | 60 | Dx | 2 | 522.201 | 25 | 97 | 48 | Dx | 6 | SAIC B26-30 |
| 520.201 | 20 | 40 | 60 | Dx | 2 | 522.202 | 20 | 97 | 34 | Dx | 6 | SAIC B26 ITS26 (tipo vecchio) |
| 520.203 | 20 | 40 | 60 | Dx | 2 | 522.203 | 40 | 98.5 | 20 | Dx | 5 | ITS 26 |
| 520.301 | 16 | 38 | 202 | Dx | 3 | 522.301 | 22 | 96 | 35 | Dx | 6 | STROHM 75-105-125 |
| 520.302 | 18 | 42.5 | 252 | Dx | 3 | 522.302 | 28 | 133 | 52 | Dx | 6 | STROHM 205-255 |
| 520.571 | — | 27 | 226 | Dx | 3 | 522.571 | 24 | 103 | 35 | Dx | 6 | PETERMAN P7 |
| 520.601 | 25 | 43.8 | 95 | Dx | 2 | 522.601 | 35 | 122 | 30 | Dx | 7 | TRAUB A36-42-60 |
| 520.601 | 25 | 43.8 | 95 | Dx | 2 | 522.701 | 35 | 122 | 52 | Dx | 6 | TRAUB TB30-42-60 (Post.) |
| 520.701 | 25 | 43.8 | 95 | Sx | 2 | 522.702 | 35 | 122 | 52 | Sx | 6 | TRAUB TB30-42-60 (Ant.) |
| 520.792 | 15 | 34 | 207 | Dx | 3 | 522.792 | 22 | 97 | 44 | Dx | 6 | TORNOS M7 |
| 520.794 | 14 | 34 | 180 | Dx | 3 | 522.794 | 22 | 97 | 38 | Dx | 6 | TORNOS R10 |
| 520.801 | 25 | 42 | 110 | Dx | 2 | 522.801 | 35 | 122 | 35 | Dx | 6 | SAIC B45 - SAIC 50 (corona) |





INGRANAGGI

PINION GEARS - WIRE COILS



SAIC B 26 - 30

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 532.025 | 25 | 1.25 | 23 | 16 |
| 532.030 | 30 | | | |
| 532.035 | 35 | | | |
| 532.040 | 40 | | | |
| 532.045 | 45 | | | |
| 532.050 | 50 | | | |
| 532.075 | 75 | | | |
| 532.080 | 80 | | | |
| 532.090 | 90 | | | |
| 532.100 | 100 | | | |

SAIC B 45

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 536.030 | 30 | 1.25 | 23 | 18 |
| 536.035 | 35 | | | |
| 536.040 | 40 | | | |
| 536.045 | 45 | | | |
| 536.050 | 50 | | | |
| 536.075 | 75 | | | |
| 536.080 | 80 | | | |
| 536.090 | 90 | | | |
| 536.100 | 100 | | | |

STROHM M 4,5 (Tipo vecchio)

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|----|------|----|----|
| 542.030 | 30 | 1 | 12 | 11 |
| 542.033 | 33 | | | |
| 542.036 | 36 | | | |
| 542.038 | 38 | | | |
| 542.041 | 41 | | | |
| 542.044 | 44 | | | |
| 542.081 | 81 | | | |
| 542.084 | 84 | | | |
| 542.087 | 87 | | | |
| 542.089 | 89 | | | |
| 542.092 | 92 | | | |
| 542.093 | 93 | | | |
| 542.095 | 95 | | | |

STROHM 75 - 105 - 125

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 544.025 | 25 | 1 | 14 | 14 |
| 544.035 | 35 | | | |
| 544.042 | 42 | | | |
| 544.050 | 50 | | | |
| 544.052 | 52 | | | |
| 544.056 | 56 | | | |
| 544.058 | 58 | | | |
| 544.065 | 65 | | | |
| 544.067 | 67 | | | |
| 544.070 | 70 | | | |
| 544.076 | 76 | | | |
| 544.079 | 79 | | | |
| 544.083 | 83 | | | |
| 544.092 | 92 | | | |
| 544.093 | 93 | | | |
| 544.095 | 95 | | | |
| 544.096 | 96 | | | |
| 544.099 | 99 | | | |
| 544.105 | 105 | | | |
| 544.110 | 110 | | | |
| 544.117 | 117 | | | |
| 544.125 | 125 | | | |
| 544.133 | 133 | | | |
| 544.175 | 175 | | | |

STROHM 205 - 255

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 546.020 | 20 | 1.5 | 20 | 16 |
| 546.034 | 34 | | | |
| 546.040 | 40 | | | |
| 546.047 | 47 | | | |
| 546.050 | 50 | | | |
| 546.052 | 52 | | | |
| 546.054 | 54 | | | |
| 546.056 | 56 | | | |
| 546.061 | 61 | | | |
| 546.067 | 67 | | | |
| 546.073 | 73 | | | |
| 546.077 | 77 | | | |
| 546.079 | 79 | | | |
| 546.084 | 84 | | | |
| 546.087 | 87 | | | |
| 546.088 | 88 | | | |
| 546.093 | 93 | | | |
| 546.100 | 100 | | | |
| 546.105 | 105 | | | |
| 546.106 | 106 | | | |
| 546.120 | 120 | | | |
| 546.140 | 140 | | | |

TRAUB A 15 - 20 - 25 ITS 26

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 530.025 | 25 | 1.25 | 22 | 16 |
| 530.035 | 35 | | | |
| 530.040 | 40 | | | |
| 530.045 | 45 | | | |
| 530.050 | 50 | | | |
| 530.075 | 75 | | | |
| 530.080 | 80 | | | |
| 530.090 | 90 | | | |
| 530.100 | 100 | | | |

TRAUB A 36 - 42 - 60

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 534.025 | 25 | 1.25 | 22 | 18 |
| 534.035 | 35 | | | |
| 534.040 | 40 | | | |
| 534.045 | 45 | | | |
| 534.050 | 50 | | | |
| 534.075 | 75 | | | |
| 534.080 | 80 | | | |
| 534.090 | 90 | | | |
| 534.100 | 100 | | | |

TRAUB TD 16 - 26 - 36

INGRANAGGI CAMBIO VELOCITÀ
MANDRINO

| ART. (Code) | Z | H | ART. | Z | H |
|-------------|----|----|---------|----|----|
| 528.084 | 84 | 16 | 529.027 | 27 | 18 |
| 528.080 | 80 | 16 | 529.031 | 31 | 18 |
| 528.076 | 76 | 16 | 529.035 | 35 | 18 |
| 528.072 | 72 | 16 | 529.039 | 39 | 18 |
| 528.067 | 67 | 16 | 529.044 | 44 | 18 |
| 528.063 | 63 | 16 | 529.048 | 48 | 18 |
| 528.058 | 58 | 16 | 529.053 | 53 | 18 |

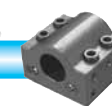
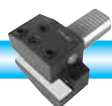
INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|----|------|----|----|
| 531.026 | 26 | 1.25 | 16 | 16 |
| 531.031 | 31 | | | |
| 531.033 | 33 | | | |
| 531.036 | 36 | | | |
| 531.039 | 39 | | | |
| 531.042 | 42 | | | |
| 531.048 | 48 | | | |
| 531.060 | 60 | | | |
| 531.066 | 66 | | | |
| 531.069 | 69 | | | |
| 531.072 | 72 | | | |
| 531.074 | 74 | | | |
| 531.077 | 77 | | | |
| 531.082 | 82 | | | |

TRAUB TB 36 - 42 - 60

INGRANAGGI CAMBIO PRODUZIONE

| ART. (Code) | Z | Mod. | d | H |
|-------------|-----|------|----|----|
| 538.036 | 36 | 1.25 | 30 | 18 |
| 538.039 | 39 | | | |
| 538.043 | 43 | | | |
| 538.047 | 47 | | | |
| 538.050 | 50 | | | |
| 538.066 | 66 | | | |
| 538.083 | 83 | | | |
| 538.099 | 99 | | | |
| 538.102 | 102 | | | |
| 538.106 | 106 | | | |
| 538.110 | 110 | | | |
| 538.113 | 113 | | | |





CORONE Tipo 550 , FLANGE Tipo 552 , CATENA Tipo 750 , POMPA ACQUA Tipo 564

GEAR - FLANGE - CHAIN - WATER PUMP

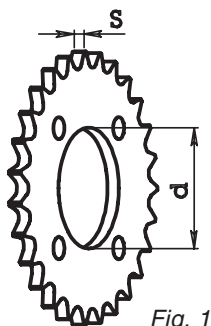


Fig. 1

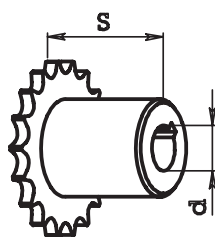


Fig. 2

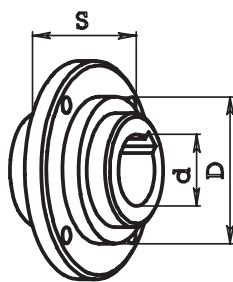


Fig. 3

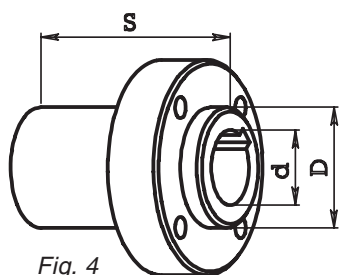


Fig. 4

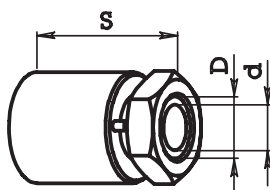


Fig. 5

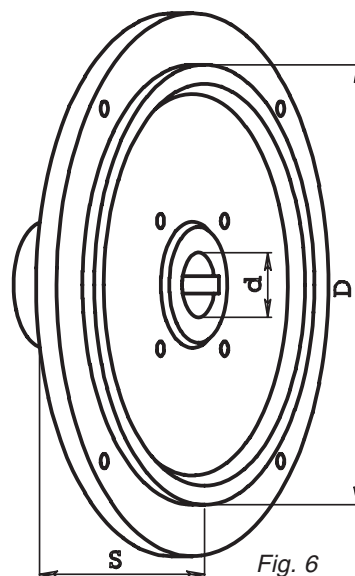
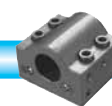
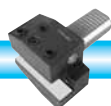


Fig. 6

| chain gear 3/8 | | | | | flange gear holder | | | | | function | machine |
|-------------------|-------------------------------|-----|-----|------|---------------------|---------------------------------|----|----|------|------------------------|------------------|
| CORONE CATENA 3/8 | | | | | FLANGE PORTA CORONA | | | | | FUNZIONE | MACCHINA |
| ART. | n. denti | d | S | Fig. | ART. | D | d | S | Fig. | | |
| 550.110 | Z65 | 150 | 3.5 | 1 | 552.110 | 150 | 22 | 48 | 6 | trasmissione | TRAUB A 15-20-25 |
| 550.120 | Z45 | 75 | 3.5 | 1 | 678.100 | — | — | — | — | frizione | |
| 550.130 | Z27 | 45 | 3.5 | 1 | 552.130 | 45 | 16 | 22 | 3 | tendi catena | |
| 550.130 | Z27 | 45 | 3.5 | 1 | 552.131 | 45 | 22 | 29 | 3 | trasmissione | |
| 550.140 | Z17 | 20 | 3.5 | 1 | 552.140 | 20 | 14 | 43 | 5 | motore produzione | |
| 550.141 | Z17 | 12 | 22 | 2 | — | — | — | — | — | pompa acqua | |
| 550.210 | Z64 | 37 | 3.5 | 1 | 552.210 | 37 | 23 | 59 | 4 | trasmissione | SAIC B 26-30 |
| 550.120 | Z45 | 75 | 3.5 | 1 | 678.100 | — | — | — | — | frizione | |
| 550.230 | Z27 | 37 | 3.5 | 1 | 552.210 | 37 | 23 | 59 | 4 | trasmissione | |
| 550.231 | Z27 | 33 | 3.5 | 1 | 552.230 | 33 | 23 | 39 | 3 | trasmissione | |
| 550.240 | Z17 | 14 | 43 | 2 | — | — | — | — | — | motore produzione | |
| 550.241 | Z17 | 14 | 28 | 2 | — | — | — | — | — | tendi catena | |
| 550.242 | Z17 | 14 | 35 | 2 | — | — | — | — | — | pompa acqua | |
| 550.610 | Z65 | 150 | 5.5 | 1 | 552.610 | 150 | 22 | — | 6 | trasmissione | TRAUB A 36-42-60 |
| 550.620 | Z45 | 75 | 5.5 | 1 | — | — | — | — | — | frizione TRAUB A 36-42 | |
| 550.621 | Z45 | 95 | 5.5 | 1 | 678.600 | — | — | — | — | frizione TRAUB A 60 | |
| 550.630 | Z27 | 45 | 5.5 | 1 | 552.130 | 45 | 16 | 22 | 3 | tendi catena | |
| 550.630 | Z27 | 45 | 5.5 | 1 | 552.131 | 45 | 22 | 29 | 3 | trasmissione | |
| 550.640 | Z17 | 25 | 5.5 | 1 | — | — | — | — | — | motore produzione | |
| 750.105 | 4 METRI DI CATENA | | | | | TRAUB A 15-20-25 / SAIC B 26-30 | | | | | |
| 750.106 | GIUNTO PER CATENA | | | | | TRAUB A 15-20-25 / SAIC B 26-30 | | | | | |
| 750.106B | FALSA MAGLIA PER CATENA | | | | | TRAUB A 15-20-25 / SAIC B 26-30 | | | | | |
| 750.605 | 4 METRI DI CATENA | | | | | TRAUB A 36-42-60 | | | | | |
| 750.606 | GIUNTO PER CATENA | | | | | TRAUB A 36-42-60 | | | | | |
| 750.606B | FALSA MAGLIA PER CATENA | | | | | TRAUB A 36-42-60 | | | | | |
| 560.101 | TESTA DI CAVALLO | | | | | TRAUB A 15-20-25 | | | | | |
| 560.601 | TESTA DI CAVALLO | | | | | TRAUB A 36-42-60 | | | | | |
| 560.102 | PERNO FULCRO TESTA DI CAVALLO | | | | | TRAUB A 15-20-25-36-42-60 | | | | | |
| 564.100 | POMPA ACQUA COMPLETA | | | | | TRAUB A 15-20-25 | | | | | |
| 564.101 | INGRANAGGI POMPA ACQUA | | | | | TRAUB A 15-20-25 | | | | | |





PERNI Tipo 554 e BOCCOLE Tipo 556 PORTA INGRANAGGI PRODUZIONE

PINS - BUSH - GEAR HOLDER

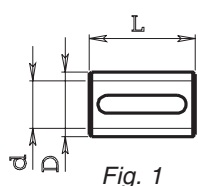


Fig. 1

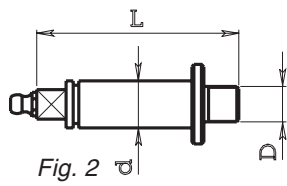


Fig. 2

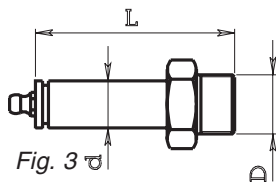


Fig. 3

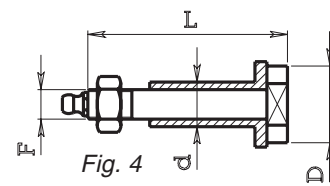


Fig. 4

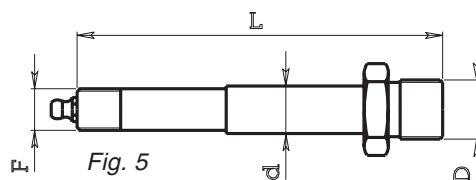


Fig. 5

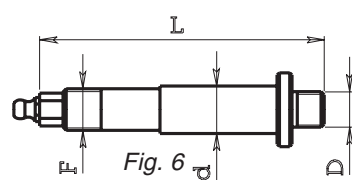


Fig. 6

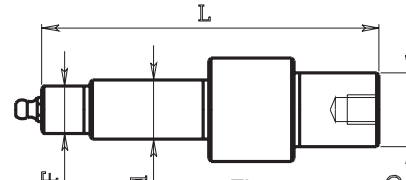


Fig. 7

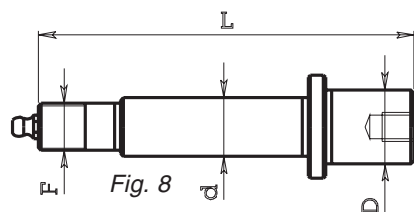


Fig. 8

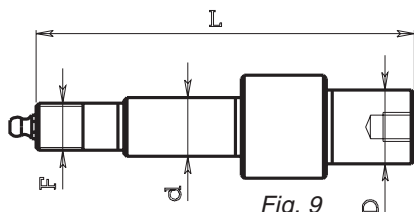


Fig. 9

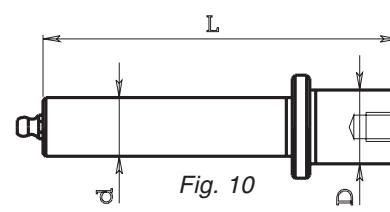


Fig. 10

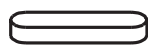
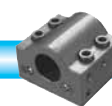
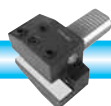


Fig. 11

(1) È formato da due pezzi:
- Perno art. 554.201A
- Boccola art. 554.201B

(c) centrale (central)
(s) superiore (upper)
(i) inferiore (lower)

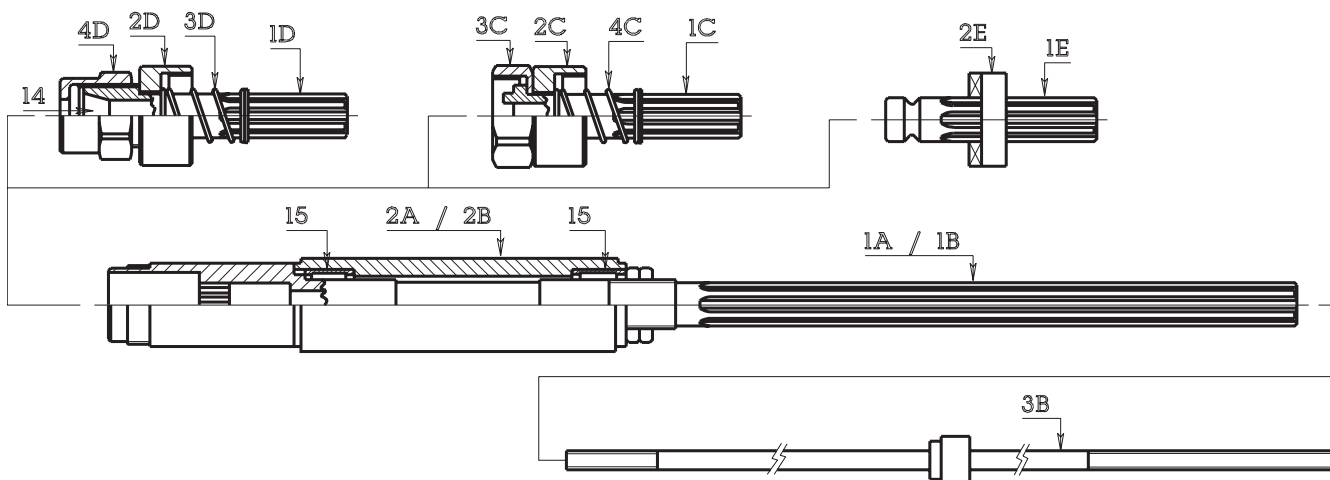
| pin | | | | | | bush | | | | | wedge | | | machine |
|-------------|---------|----|-----|--------|------|---------|----|----|------|------|-----------|------------|------|----------------------|
| PERNO | | | | | | BOCCOLA | | | | | CHIAVETTA | | | MACCHINA |
| ART. | D | d | L | F | Fig. | ART. | D | d | L | Fig. | ART. | dimensioni | Fig. | |
| 554.101 | 12x1.75 | 16 | 69 | — | 2 | 556.101 | 22 | 16 | 36 | 1 | 750.002 | 6x4 L=30 | 11 | TRAUB A 15-20-25 (c) |
| 554.102 | 20x1.5 | 16 | 68 | — | 3 | 556.102 | 22 | 16 | 38 | 1 | 750.002 | 6x4 L=30 | 11 | TRAUB A 15-20-25 (s) |
| 554.103 | 20x1.5 | 16 | 90 | — | 3 | 556.103 | 22 | 16 | 62 | 1 | 750.004 | 6x4 L=55 | 11 | TRAUB A 15-20-25 (i) |
| 554.201 (1) | 26 | 15 | 68 | 10x1.5 | 4 | 556.201 | 23 | 15 | 36 | 1 | 750.002 | 6x4 L=30 | 11 | SAIC B 26-30 (c) |
| 554.202 | 14x2 | 15 | 88 | 12x1 | 5 | 556.202 | 23 | 15 | 55 | 1 | 750.003 | 6x4 L=35 | 11 | SAIC B 26-30 (s) |
| 554.203 | 14x2 | 15 | 108 | 12x1 | 5 | 556.203 | 23 | 15 | 75 | 1 | 750.003 | 6x4 L=35 | 11 | SAIC B 26-30 (i) |
| 554.241 | 12x1.75 | 16 | 74 | — | 2 | 556.241 | 23 | 16 | 35 | 1 | — | 5x5 L=30 | 11 | GIORGI GM 20-32 (c) |
| 554.242 | 18x2.5 | 16 | 96 | — | 3 | 556.241 | 23 | 16 | 35 | 1 | — | 5x5 L=30 | 11 | GIORGI GM 20-32 (s) |
| 554.243 | 18x2.5 | 16 | 116 | — | 3 | 556.243 | 23 | 16 | 70.5 | 1 | — | 5x5 L=65 | 11 | GIORGI GM 20-32 (i) |
| 554.601 | 12x1.75 | 16 | 99 | 14x2 | 6 | 556.601 | 22 | 16 | 40 | 1 | 750.002 | 6x4 L=30 | 11 | TRAUB A 36-42-60 (c) |
| 554.602 | 20x1.5 | 16 | 126 | 14x2 | 5 | 556.602 | 22 | 16 | 47 | 1 | 750.003 | 6x4 L=35 | 11 | TRAUB A 36-42-60 (s) |
| 554.603 | 20x1.5 | 16 | 126 | 14x2 | 5 | 556.603 | 22 | 16 | 71 | 1 | 750.005 | 6x4 L=60 | 11 | TRAUB A 36-42-60 (i) |
| 554.701 | 25 | 20 | 117 | 16 | 7 | 556.701 | 30 | 20 | 41 | 1 | 750.002B | 8x7 L=30 | 11 | TRAUB TB 30-42-60 |
| 554.702 | 25 | 20 | 129 | 16x2 | 8 | 556.702 | 30 | 20 | 55 | 1 | 750.004B | 8x7 L=55 | 11 | TRAUB TB 30-42-60 |
| 554.701B | 25 | 20 | 130 | 16x2 | 9 | 556.701 | 30 | 20 | 41 | 1 | 750.002B | 8x7 L=30 | 11 | TRAUB TB 30-42-60 |
| 554.702B | 25 | 20 | 121 | — | 10 | 556.702 | 30 | 20 | 64 | 1 | 750.004B | 8x7 L=55 | 11 | TRAUB TB 30-42-60 |
| 554.801 | 12x1.75 | 16 | 104 | 14x2 | 6 | 556.801 | 23 | 16 | 41 | 1 | 750.002 | 6x4 L=30 | 11 | SAIC B 45 (c) |
| 554.802 | 16x1.5 | 16 | 140 | 14x2 | 5 | 556.802 | 23 | 16 | 58 | 1 | 750.004 | 6x4 L=55 | 11 | SAIC B 45 (s) |
| 554.803 | 20x1.5 | 16 | 140 | 14x2 | 5 | 556.803 | 23 | 16 | 80 | 1 | 750.005 | 6x4 L=60 | 11 | SAIC B 45 (i) |



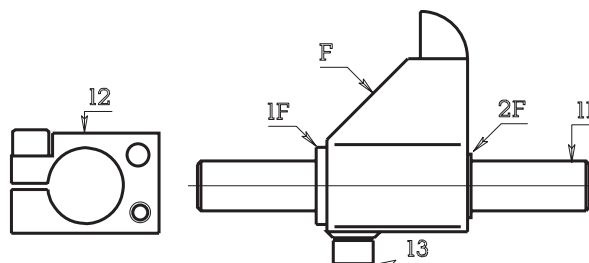


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DRILL-THREAD DEVICE

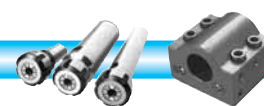
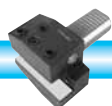
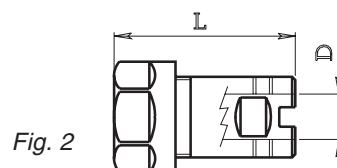
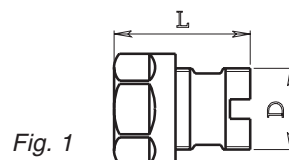


| description | | | | | |
|-------------|---|----------------------|------------------|------------------|----------------------|
| N. | descrizione | ART. TRAUB A15-20-25 | ART. SAIC B26-30 | ART. SAIC A30-32 | ART. GIORGI GM 20-32 |
| 1A | albero scanalato (tipo corto) | 570.101 | — | — | — |
| 2A | canotto porta albero per N.1A | 571.101 | — | — | — |
| 1B | albero scanalato (tipo lungo) | 570.102 | 570.202 | — | — |
| 2B | canotto porta albero per N.1B | 571.102 | 571.202 | — | — |
| 3B | tirante per albero N.1B | 572.102 | 572.202 | — | — |
| C | ALBERINO PORTA FILIERA COMPLETO DEGLI ART. INDICATI CON "C" | 574.100 | 574.200 | — | — |
| 1C | alberino | 574.110 | 574.110 | — | — |
| 2C | ghiera | 574.120 | 574.220 | — | — |
| 3C | ghiera di bloccaggio p.filiera | 574.130 | 574.230 | — | — |
| 4C | molla | 718.130 | 718.130 | — | — |
| D | ALBERINO PORTA MASCHI COMPLETO DEGLI ART. INDICATI CON "D" | 576.100 | — | — | — |
| 1D | alberino con ghiera art. 576120 (n. 4D) | 576.110 | — | — | — |
| 2D | ghiera | 574.120 | — | — | — |
| 3D | molla | 718.130 | — | — | — |
| E | ALBERINO P.MASCHI E FILIERE COMPLETO DEGLI ART. INDICATI CON "E" | — | — | 574.210E | — |
| 1E | alberino | — | — | 574.210 | 574.240 |
| 2E | anello | — | — | 574.210B | — |
| F | SPINTORE CON BOCCOLE 1F e 2F | 580.110 | — | — | — |
| 1F | boccola | 580.111 | — | — | — |
| 2F | boccola | 580.112 | — | — | — |
| 11 | albero diam. 20 | 580.120 | — | — | — |
| 12 | morsetto | 580.130 | — | — | — |
| 13 | perno e rullo (con rullini) | 514.710 | — | — | — |
| 13 | perno e rullo (senza rullini) | 514.111 514.112 | — | — | — |
| 14 | pinza | 010.013 | — | — | — |
| 15 | cuscinetti a rullini | 714.110 | 714.210 | — | — |



- Sul 574.100 va montato l'art. 576.111 e 382.100 / 200 / 300 descritti a pag. 126
- Sul 574.200 va montato l'art 576.211 , 576.210 e 382400 382.500, 382.600 descritti a pag. 126
- Sul 574.210 va montato l'art. 576.212

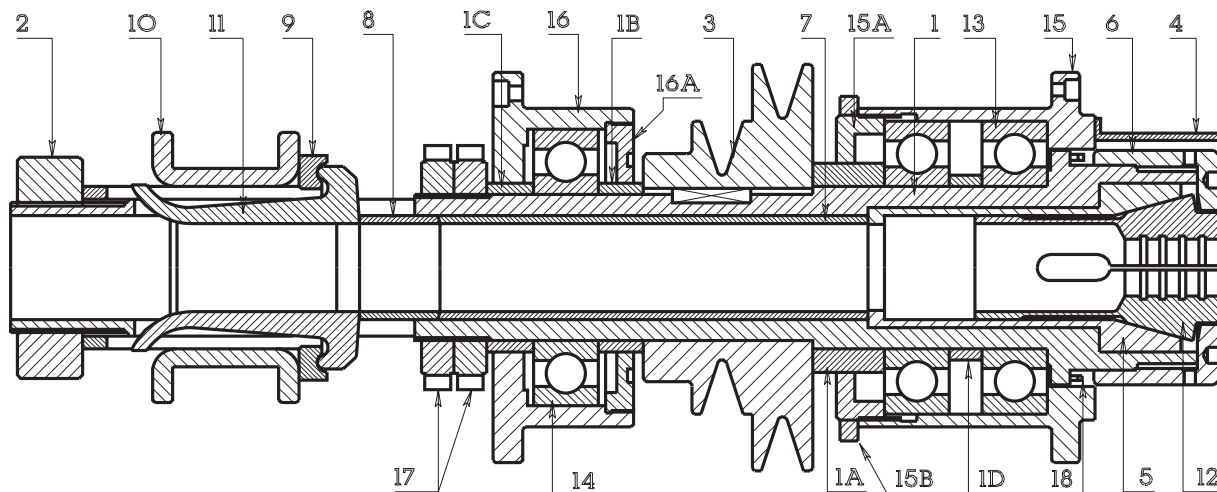
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|---------|--------|-----------|---------|---------|----------------------|
| ART. | L | D | x Pinza | Fig. | Macchina |
| 576.111 | 40 | 25x1.5 sx | 050.020 | 1 | TRAUB A 15-20-25 |
| 576.210 | 36 | 26x1.5 sx | 010.019 | 1 | SAIC B26-30 / ITS 26 |
| 576.211 | 40 | 26x1.5 sx | 050.020 | 1 | SAIC B26-30 / ITS 26 |
| 576.212 | 55 | 14 | 050.020 | 2 | SAIC A 30-32 |
| 576.241 | 47 | 16 | 050.016 | 2 | GIORGI GM 20-32 |





ALBERO MANDRINO

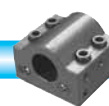
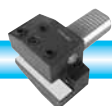
SPINDLE SHAFT



| description | | | | | | | | | | | |
|-------------|---------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| N° | descrizione | ART. TRAUB A15 | n. Pz | ART. TRAUB A20 | n. Pz | ART. TRAUB A25 | n. Pz | ART. TRAUB A42 | n. Pz | ART. TRAUB A60 | n. Pz |
| 1 | albero fantina | 590.115 (1) | 1 | 590.120 | 1 | 590.125 (3) | 1 | 590.642* | 1 | 590.660* | 1 |
| 1 | albero fantina | 590.114 (2) | 1 | — | — | 590.125B (4) | 1 | — | — | — | — |
| 1A | distanziale intermedio | 590.116 | 1 | — | — | 590.126 | 1 | — | — | — | — |
| 1B | distanziale intermedio | 590.117 | 1 | — | — | 590.127 | 1 | — | — | — | — |
| 1C | distanziale intermedio | 590.118 | 1 | — | — | 590.128 | 1 | — | — | — | — |
| 1D | distanziale intermedio | 590.119 | 1 | — | — | 590.129 | 1 | — | — | — | — |
| 2 | ghiera regist. manicotto | 592.115 | 1 | 592.120 | 1 | 592.125 | 1 | 592.642* | 1 | 592.660* | 1 |
| 3 | puleggia | 594.115 (7) | 1 | 594.120 (7) | 1 | 594.125 (7) | 1 | 594.642* | 1 | 594.660* | 1 |
| 3 | puleggia | 594.116 (8) | 1 | 594.121 (8) | 1 | 594.126 (8) | 1 | — | — | — | — |
| 4 | carter riparo acqua | — | — | — | — | 596.125 | 1 | — | — | — | — |
| 5 | canotto porta pinza | 066.810 | 1 | 066.820 | 1 | 066.830 | 1 | 066.870 | 1 | 066.880 | 1 |
| 6 | ghiera di serraggio | 072.810 | 1 | 072.820 | 1 | 072.830 | 1 | 072.870 | 1 | 072.880 | 1 |
| 7 | tubo spingi pinza | 076.810 (10) | 1 | 076.820 | 1 | 076.830 | 1 | 076.870 | 1 | 076.880 | 1 |
| 8 | distanziale compensat. | 078.810 | 1 | 078.820 | 1 | 078.830 (10) | 1 | 078.870 | 1 | 078.880 | 1 |
| 9 | manicotto porta leve | 080.810 (11) | 1 | 080.820 | 1 | 080.830 (15) | 1 | 080.870 | 1 | 080.880 | 1 |
| 9 | manicotto porta leve | 080.811 (13) | 1 | — | — | 080.831 (16) | 1 | — | — | — | — |
| 10 | anello scorrevole | 082.810 (12) | 1 | 082.820 | 1 | 082.830 | 1 | 082.870 | 1 | 082.880 | 1 |
| 10 | anello scorrevole | 082.811 (14) | 1 | — | — | — | 1 | — | — | — | — |
| 11 | levette | 084.810 (17) | 2 | 084.830 | 3 | 084.830 (19) | 3 | 084.870 | 3 | 084.870 | 3 |
| 11 | levette | 084.830 (18) | 2 | — | — | 084.831 (20) | 3 | — | — | — | — |
| 12 | pinza | 010.051 | 1 | 010.070 | 1 | 010.084 | 1 | 010.117 | 1 | 010.133 | 1 |
| 13 | cuscinetto anteriore | 716.111 | 2 | 716.131 | 2 | 716.130 | 2 | 716.610 | 2 | 716.620 | 2 |
| 14 | cuscinetto posteriore | 716.111 | 1 | 716.121 | 1 | 716.131 | 1 | 716.611 | 1 | 716.620 | 1 |
| 15 | flangia anteriore | 588.115 | 1 | — | — | 588.125 | 1 | — | — | — | — |
| 15A | ghiera registr. cuscinet. | 588.115C | 1 | — | — | 588.125C | 1 | — | — | — | — |
| 15B | ghiera di bloccaggio | 588.115D | 1 | — | — | 588.125D | 1 | — | — | — | — |
| 16 | flangia posteriore | 588.116 | 1 | — | — | 588.126 | 1 | — | — | — | — |
| 16A | ghiera di blocc. cuscin. | 588.116C | 1 | — | — | 588.126C | 1 | — | — | — | — |
| 17 | ghiere registr. albero | 593.115 | 2 | 593.120 | 2 | 593.125 | 2 | 593.142 | 2 | 593.160 | 2 |
| 18 | distanziale labirinto | — | — | — | — | 591.125 | 1 | 591.642 | 1 | — | — |

I numeri tra parentesi (x) indicano note descritte nella pag. seguente.

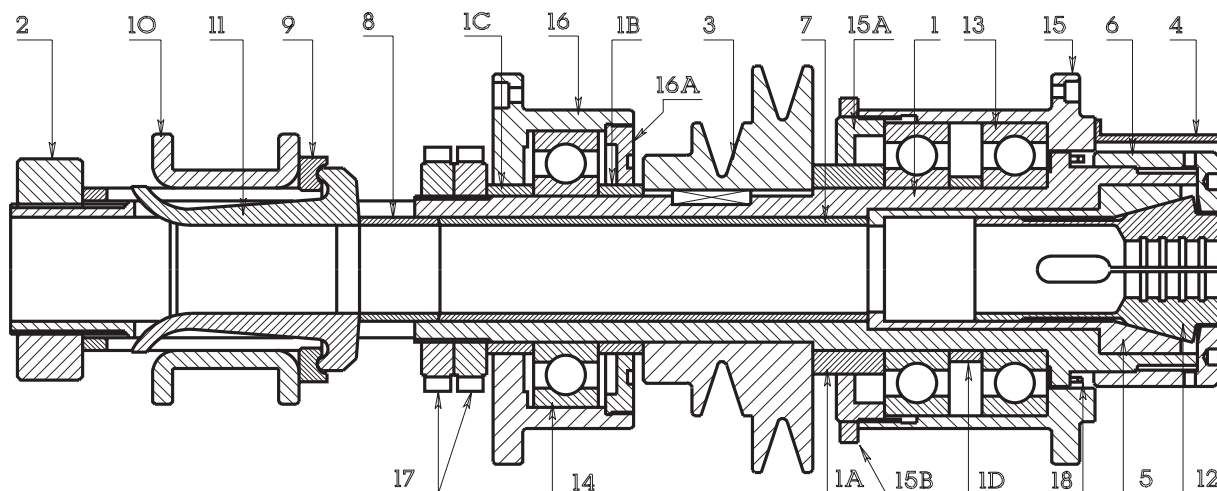
* = Su richiesta (on request)





ALBERO MANDRINO

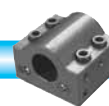
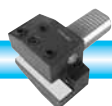
SPINDLE SHAFT



| N° | descrizione | ART. SAIC B26 | n. Pz | ART. SAIC B30 | n. Pz | ART. ITS 26 | n. Pz | ART. FEINLER FA15 | n. Pz |
|-----|---------------------------|---------------|-------|---------------|-------|-------------|-------|-------------------|-------|
| 1 | albero fantina | 590.226 (5) | 1 | 590.230 | 1 | 590.227 | 1 | 590.901 | 1 |
| 1 | albero fantina | 590.227 (6) | 1 | — | — | — | — | — | — |
| 1A | distanziale intermedio | — | — | — | — | — | — | — | — |
| 1B | distanziale intermedio | — | — | — | — | — | — | — | — |
| 1C | distanziale intermedio | — | — | — | — | — | — | — | — |
| 1D | distanziale intermedio | — | — | — | — | — | — | — | — |
| 2 | ghiera registr. manicotto | 592.226 | 1 | 592.230 | 1 | 592.226 | 1 | 592.901 | 1 |
| 3 | puleggia | 594.126 (8) | 1 | 594.230 (8) | 1 | 594.126 (8) | 1 | 594.901 | 1 |
| 4 | carter riparo acqua | 596.125 | 1 | — | — | 596.125 | 1 | — | — |
| 5 | canotto porta pinza | 066.240 | 1 | 066.610 | 1 | 066.240 | 1 | 066.220 | 1 |
| 6 | ghiera di serraggio | -(9)- | 1 | 072.610 | 1 | 072.420 | 1 | 072.220 | 1 |
| 7 | tubo spingi pinza | 076.830 | 1 | 076.610 | 1 | 076.830 | 1 | 076.220 | 1 |
| 8 | distanziale compensatore | -(10)- | 1 | 078.610 | 1 | 078.601 | 1 | 078.220 (10) | 1 |
| 9 | manicotto porta leve | 080.830 | 1 | 080.610 | 1 | 080.420 | 1 | 080.221 | 1 |
| 10 | anello scorrevole | 082.830 | 1 | 082.610 | 1 | 082.420 | 1 | 080.220 | 1 |
| 11 | levette | 084.600 | 3 | 084.610 | 3 | 084.420 | 3 | 084.220 | 2 |
| 12 | pinza | 010.084 | 1 | 010.093 | 1 | 010.084 | 1 | 010.051 | 1 |
| 13 | cuscinetto anteriore | — | — | — | — | — | — | — | — |
| 14 | cuscinetto posteriore | — | — | — | — | — | — | — | — |
| 15 | flangia anteriore | — | — | — | — | — | — | — | — |
| 15A | ghiera registr. cuscinet. | — | — | — | — | — | — | — | — |
| 15B | ghiera di bloccaggio | — | — | — | — | — | — | — | — |
| 16 | flangia posteriore | — | — | — | — | — | — | — | — |
| 16A | ghiera di blocc. cuscin. | — | — | — | — | — | — | — | — |
| 17 | ghiere registr. albero | 593.125 | 2 | — | — | 593.125 | 2 | — | — |
| 18 | distanziale labirinto | — | — | — | — | — | — | — | — |

- (1) Albero per levette spess. 9 art. 084.810
- (2) Albero per levette spess. 10 art. 084.830
- (3) Albero per levette spess. 12 art. 084.831
- (4) Albero per levette spess. 10 art. 084.830
- (5) Albero per ghiera guida conica art. 072.600
- (6) Albero per ghiera guida cilindrica art. 072.420
- (7) Puleggia per cinghie sezione 13
- (8) Puleggia per cinghie sezione 17
- (9) Per albero 590.226 con guida conica art. ghiera 072.600
Per albero 590.227 con guida cilind. art. ghiera 072.420
- (10) Vedi a pag. 132 varianti

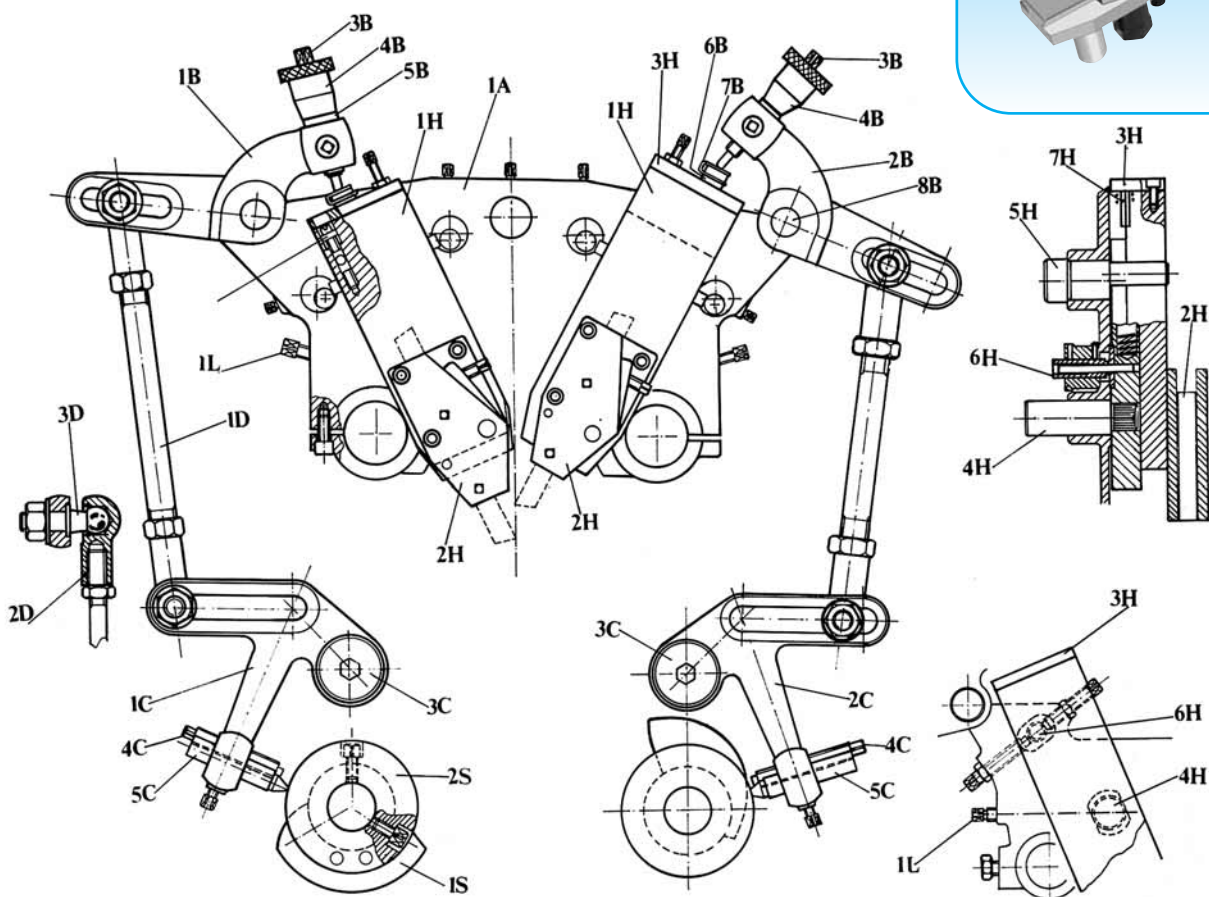
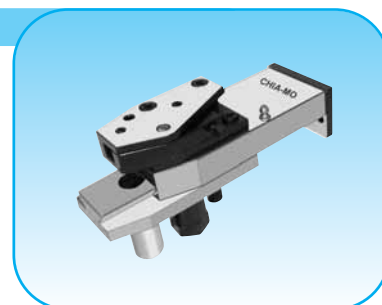
- (11) Manicotto per albero 590.115
- (12) Anello per manicotto 080.810
- (13) Manicotto per albero 590.114
- (14) Anello per manicotto 080.811
- (15) Manicotto per albero 590.125B
- (16) Manicotto per albero 590.125
- (17) Levette per albero 590.115
- (18) Levette per albero 590.114
- (19) Levette per albero 590.125B
- (20) Levette per albero 590.125





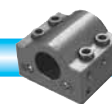
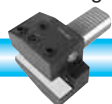
SUPPORTO Tipo 610 CARRI VERTICALI Tipo 600

VERTICAL SLIDER AND VERTICAL SLIDER HOLDERS



| description | | TRAUB A 15-20-25 | | TRAUB A 36-42-60 | | TRAUB TB 30-42-60 | | SAIC B 26-30 | |
|-------------|---|------------------|-------|------------------|-------|-------------------|-------|--------------|-------|
| N. | descrizione | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz |
| 1A | SUPPORTO CARRI | 610.101 | 1 | 610.601 | 1 | — | — | 610.201 | 1 |
| B | LEVA SUPERIORE ANTERIORE COMPLETA DEGLI ARTICOLI CONTRASSEGNA TI CON "B" | 612.100 | 1 | 612.600 | 1 | — | — | 612.100 (1) | 1 |
| B | LEVA SUPERIORE POSTERIORE COMPLETA DEGLI ARTICOLI CONTRASSEGNA TI CON "B" | 612.110 | 1 | 612.610 | 1 | — | — | 612.110 (1) | 1 |
| 1B | leva superiore anteriore (solo fusione) | 612.101 | 1 | 612.601 | 1 | — | — | 612.101 (1) | 1 |
| 2B | leva superiore posteriore (solo fusione) | 612.111 | 1 | 612.611 | 1 | — | — | 612.111 (1) | 1 |
| 3B | vite micrometrica | 726.610 | 1 | 726.610 | 1 | — | — | 726.610 (2) | 1 |
| 4B | nonio graduato | 724.610 | 1 | 724.610 | 1 | — | — | 724.610 (3) | 1 |
| 5B | indice graduato | 724.611 | 1 | 724.611 | 1 | — | — | 724.611 (4) | 1 |
| 6B | pastiglia (pattino) | 728.101 | 1 | 728.101 | 1 | — | — | 728.101 | 1 |
| 7B | molla tenuta pastiglia | 720.101 | 1 | 720.101 | 1 | — | — | 720.101 | 1 |
| 8B | spina fulcro leva verticale | 736.101 | 1 | 736.601 | 1 | — | — | 736.101 | 1 |
| 9B | vite bloccaggio nonio | 708.620 | 1 | 708.626 | 1 | — | — | 708.620 | 1 |
| 10B | pastiglia ottone | 728.901 | 1 | 728.901 | 1 | — | — | 728.901 | 1 |

- (1) Queste leve vanno bene sul nostro supporto art. 610.201, nei supporti originali bisogna adattare con delle rondelle a spessore.
 (2) Per leva originale art. 726.210
 (3) Per leva originale art. 724.210
 (4) Per leva originale art. 724.211





SUPPORTO Tipo 610 CARRI VERTICALI Tipo 600

VERTICAL SLIDER AND VERTICAL SLIDER HOLDERS

Vedi disegno nella pagina precedente.
Drawing on previous page.

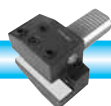
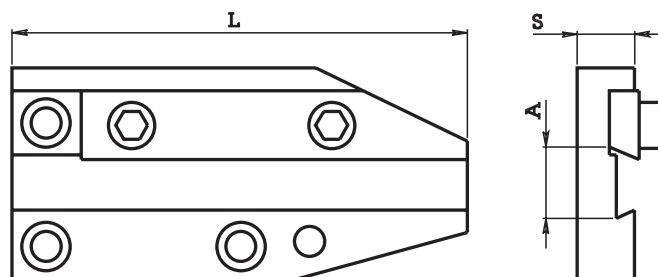
| <i>description</i> | | | | | | | | | |
|--------------------|--|------------------|-------|------------------|-------|-------------------|-------|--------------|-------|
| N. | descrizione | TRAUB A 15-20-25 | | TRAUB A 36-42-60 | | TRAUB TB 30-42-60 | | SAIC B 26-30 | |
| | | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz |
| C | LEVA INFERIORE ANTERIORE COMPLETA DEGLI ARTICOLI CONTRASSEGNA TI CON "C" | 614.100 | 1 | 614.600 | 1 | — | — | — | — |
| C | LEVA INFERIORE POSTERIORE COMPLETA DEGLI ARTICOLI CONTRASSEGNA TI CON "C" | 614.110 | 1 | 614.610 | 1 | — | — | — | — |
| 1C | leva inferiore anteriore (solo fusione) | 614.101 | 1 | 614.601 | 1 | — | — | — | — |
| 2C | leva inferiore posteriore (solo fusione) | 614.111 | 1 | 614.611 | 1 | — | — | — | — |
| 3C | spina fulcro leva | 736.102 | 1 | 736.602 | 1 | — | — | 736.202 | 1 |
| 4C | vite registro ritorno leva | 708.756 | 1 | 708.860 | 1 | — | — | — | — |
| 5C | tastatore camme | 512.101 | 1 | 512.601 | 1 | 512.601 | 1 | 512.101 | 1 |
| 6C | vite bloccaggio tastatore | 708.620 | 1 | 708.824 | 1 | — | — | — | — |
| D | TIRANTE VERTICALE COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "D" | 616.100 | 1 | 616.600 | 1 | — | — | 616.200 | 1 |
| 1D | tirante | 616.101 | 1 | 616.601 | 1 | — | — | 616.201 | 1 |
| 2D | busta sferica | 734.110 | 2 | 734.610 | 2 | — | — | 734.210 | 2 |
| 3D | snodo sferico | 734.111 | 2 | 734.611 | 2 | — | — | 734.211 | 2 |
| 4D | dado | 10x1.5 | 2 | 14x1.5 | 2 | — | — | 10x1.5 | 2 |
| H | CARRO VERTICALE ANT. E POST. COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "H" | 600.100 | 1 | 600.600 | 1 | 600.700 | 1 | 600.200 | 1 |
| 1H | carro verticale anteriore e/o posteriore | 600.110 | 1 | 600.610 | 1 | 600.710 | 1 | 600.210 | 1 |
| 2H | porta utensile | 600.120 | 1 | 600.620 | 1 | 600.620 | 1 | 600.220 | 1 |
| 3H | piastrina | 600.130 | 1 | 600.630 | 1 | 600.730 | 1 | 600.230 | 1 |
| 4H | perno attacco | 600.140 | 1 | 600.640 | 1 | — | — | 600.240 | 1 |
| 5H | perno registro oscillante | 600.150 | 1 | 600.650 | 2 | 600.750 | 1 | 600.150 | 1 |
| 6H | perno registro longitudinale | 600.160 | 1 | 600.160 | 1 | — | — | 600.260 | 1 |
| 7H | perno guida molla | 738.131 | 1 | 738.131 | 1 | — | — | 738.131 | 1 |
| 8H | molla | 718.110 | 1 | 718.650 | 1 | 718.710 | 1 | 718.110 | 1 |
| 9H | vite registro lardone (già montata su 1H) | 705.625 | 1 | 705.625 | 1 | 705.625 | 1 | 705.625 | 1 |
| 1L | vite di bloccaggio carro | 750.120 | 2 | 750.620 | 1 | — | — | 750.120 | 2 |
| 1S | camme | 422.101 | 1 | 422.601 | 1 | 422.701 | 1 | 422.201 | 1 |
| 2S | porta camme | 500.102 | 2 | 500.602 | 2 | 500.701 | 2 | 500.202 | 2 |

PORTA LAMA PER CARRI VERTICALI Tipo 602

BLADE HOLDER FOR VERTICAL SLIDERS

Per lama trapezoidale
For trapezium form blade

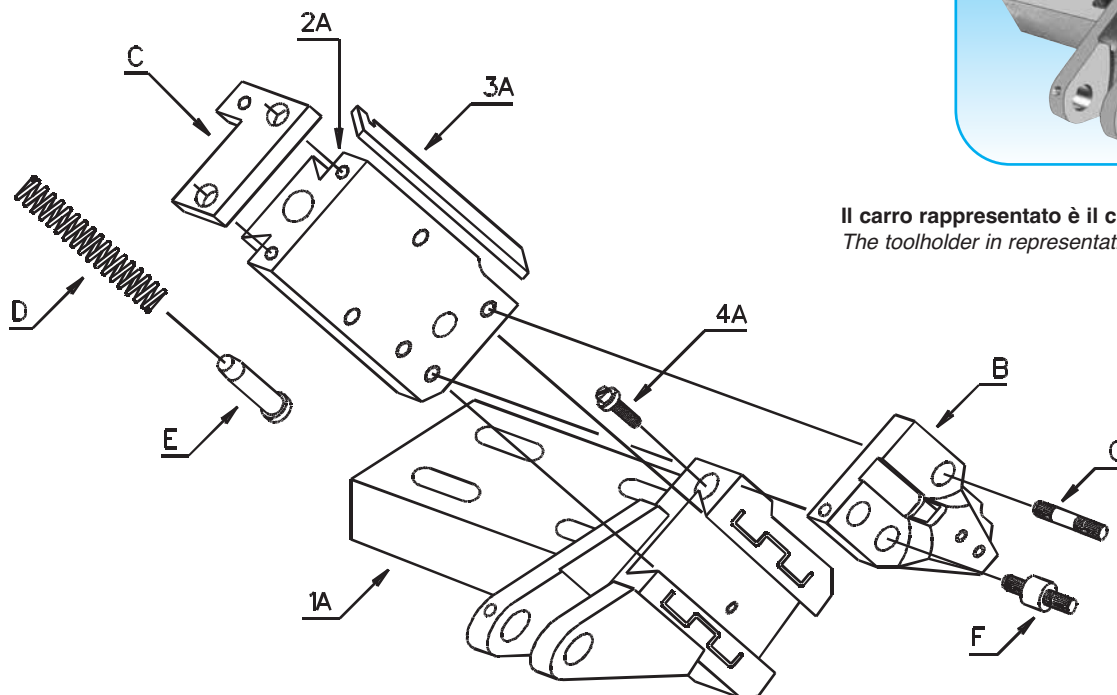
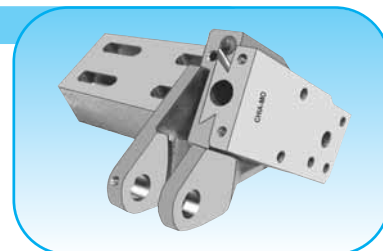
| Code | | | | | machine |
|---------|-----|----|-------------|------------------------------|---------|
| ART. | L | S | A | Macchina | |
| 602.101 | 93 | 12 | 13x2 / 13x3 | TRAUB A 15-20-25 / SAIC B 26 | |
| 602.601 | 116 | 12 | 17x3 / 17x4 | TRAUB A 36-42-60 TB 30-42-60 | |
| 602.801 | 108 | 12 | 17x3 / 17x4 | SAIC B 45 | |





CARRI VERTICALI TRAUB TD 16-26-36

VERTICAL SLIDERS



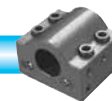
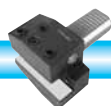
Il carro rappresentato è il carro anteriore.
The toolholder in representation is front slider.

CARRO VERTICALE ANTERIORE (Front side slider)

| N. | DESCRIZIONE | ART. | n. Pz |
|----------|--|----------------|-------|
| A | CARRO VERTICALE ANTERIORE COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "A" | 600.010 | |
| 1A | slitta femmina | 600.010A | 1 |
| 2A | slitta maschio | 600.010B | 1 |
| 3A | lardone | 600.010C | 1 |
| 4A | vite registrazione lardone | 705.625 | 1 |
| B | porta utensile | 600.020 | 1 |
| C | piastrina tenuta molla (carro anteriore) | 600.030A | 1 |
| D | molla | 718.111 | 1 |
| E | perno guida molla | 738.010 | 1 |
| F | perno fulcro porta utensile | 738.011 | 1 |
| G | perno bloccaggio porta utensile | 738.012 | 1 |

CARRO VERTICALE POSTERIORE (Back side slider)

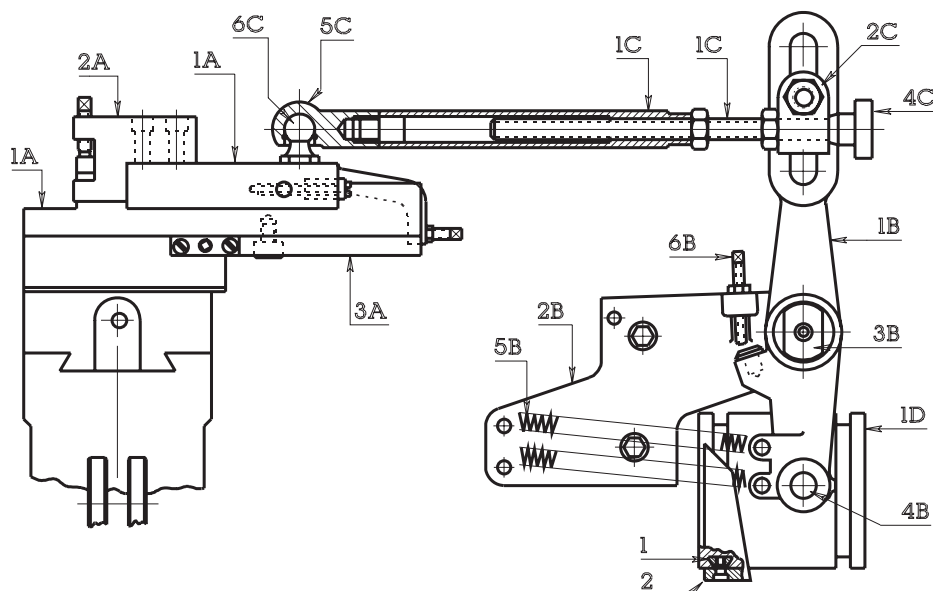
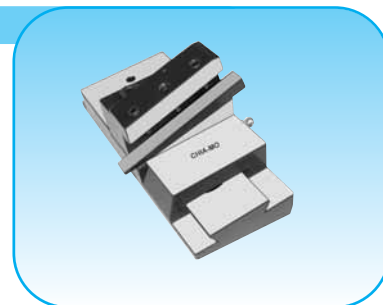
| N. | DESCRIZIONE | ART. | n. Pz |
|----------|---|----------------|-------|
| A | CARRO VERTICALE POSTERIORE COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "A" | 600.011 | |
| 1A | slitta femmina | 600.011A | 1 |
| 2A | slitta maschio | 600.010B | 1 |
| 3A | lardone | 600.010C | 1 |
| 4A | vite registrazione lardone | 705.625 | 1 |
| B | porta utensile | 600.020 | 1 |
| C | piastrina tenuta molla (carro posteriore) | 600.030P | 1 |
| D | molla | 718.111 | 1 |
| E | perno guida molla | 738.010 | 1 |
| F | perno fulcro porta utensile | 738.011 | 1 |
| G | perno bloccaggio porta utensile | 738.012 | 1 |





CARRI TORNITURA LONGITUDINALE Tipo 620

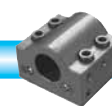
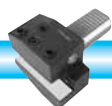
TURN ALONG SLIDERS



(1) È disponibile anche a penna art. 512.105

(2) È disponibile anche a penna art. 512.605

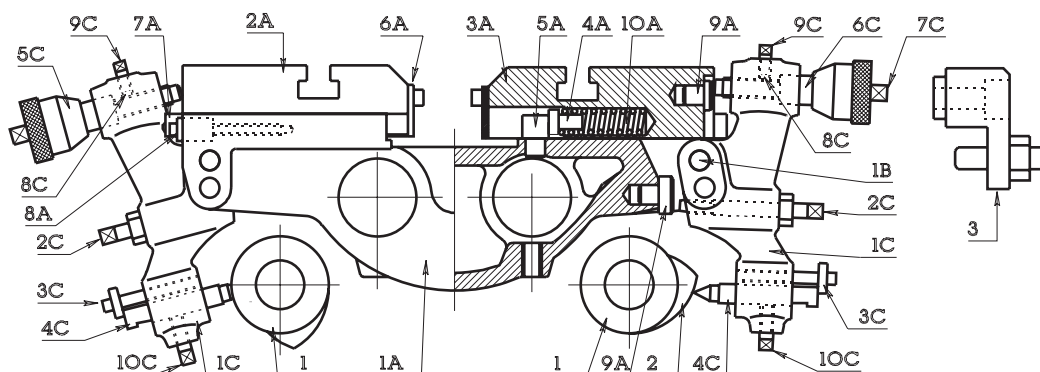
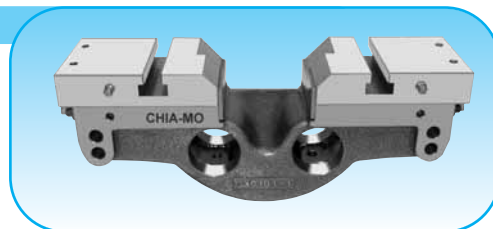
| description | | TRAUB A 15-20-25 | | SAIC B 26-30 | | TRAUB A 36-42-60 | | TRAUB TB 30-42-60 | |
|-------------|--|------------------|-------|--------------|-------|------------------|-------|-------------------|-------|
| N. | descrizione | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz |
| A | CARRO TORNITURA LONGIT. COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "A" | 620.110 | 1 | 620.110 | 1 | 620.610 | 1 | 620.710 | 1 |
| 1A | carro ant. | 620.111 | 1 | 620.111 | 1 | 620.611 | 1 | 620.711 | 1 |
| 2A | porta utensile | 620.112 | 1 | 620.112 | 1 | 620.612 | 1 | 620.712 | 1 |
| 3A | supporto carro | — | — | — | — | 620.613 | 1 | — | — |
| B | LEVA COMPLETA DEGLI ARTICOLI CONTRASSEGNA TI CON "B" | 624.100 | 1 | 624.100 | 1 | 624.600 | 1 | 624.700 | 1 |
| 1B | leva | 624.101 | 1 | 624.101 | 1 | 624.601 | 1 | 624.701 | 1 |
| 2B | supporto leva | 624.102 | 1 | 624.102 | 1 | 624.602 | 1 | 624.702 | 1 |
| 3B | spina asse leva | 736.107 | 1 | 736.107 | 1 | 736.107 | 1 | 736.707 | 1 |
| 4B | tantatore con rullo | 514.100 (1) | 1 | 514.100 (1) | 1 | 514.600 (2) | 1 | 514.720 | 1 |
| 5B | molla ritorno | 719.102 | 2 | 719.102 | 2 | 719.602 | 2 | 718.711 | 2 |
| 6B | vite registro ritorno leva | 708.756 | 1 | 708.756 | 1 | 708.860 | 1 | — | — |
| — | perni tendi molla | 738.120 | 4 | 738.120 | 4 | 738.610 | 2 | — | — |
| C | BRACCIO COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "C" | 622.100 | 1 | 622.100 | 1 | 622.600 | 1 | 622.700 | 1 |
| 1C | tubo con asta filettata | 622.101 | 1 | 622.101 | 1 | 622.601 | 1 | — | — |
| 2C | snodo blocchetto | 734.120 | 1 | 734.120 | 1 | 734.620 | 1 | — | — |
| 3C | morsetto | 734.130 | 1 | 734.130 | 1 | — | — | — | — |
| 4C | nonio graduato | 724.610 | 1 | 724.610 | 1 | 724.610 | 1 | — | — |
| 5C | snodo busta sferica | 734.110 | 1 | 734.110 | 1 | 734.610 | 1 | — | — |
| 6C | snodo perno sferico | 734.111 | 1 | 734.111 | 1 | 734.611 | 1 | — | — |
| 1D | porta camme | 506.101 | 1 | 506.101 | 1 | 506.601 | 1 | 502.701 | 1 |
| 2D | piastrina battuta molla | — | — | — | — | — | — | — | — |
| 1 | tassello curvo | — | — | — | — | 510.601 | 3 | 510.601 | 3 |
| 2 | camme | 430.101 | 1 | 430.101 | 1 | 430.601 | 1 | 433.601 | 1 |
| 3 | tassello bloccaggio carro tornitura longitudinale | 620.113 | 1 | 620.113 | 1 | — | — | — | — |
| 4 | regolo conicita' carro tornitura longitudinale | 620.114 | 1 | 620.114 | 1 | — | — | — | — |





CARRI TRASVERSALI

CROSSWISE SLIDERS

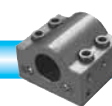
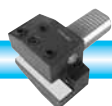


| description | | TRAUB A15-20-25 | | SAIC B26-30 | | ITS 26 | | TRAUB A36-42 | | TRAUB A60 | |
|-------------|---|-----------------|----|----------------|----|----------------|----|----------------|----|----------------|----|
| N° | descrizione | ART. | Pz | ART. | Pz | ART. | Pz | ART. | Pz | ART. | Pz |
| — | SUPPORTO CARRI TRAV. COMPLETO DEGLI ART. A-B-C | 630.100 | — | 630.200 | — | 630.203A | — | — | — | — | — |
| A | CARRO TRAV. COMPLETO DEGLI ARTICOLI INDICATI CON A | 630.101 | — | 630.201 | — | 630.203 | — | — | — | — | — |
| 1A | supporto slitte | 630.101B | 1 | 630.201B | 1 | 630.203B | 1 | — | — | — | — |
| 2A | slitta anteriore | 630.103 | 1 | 630.103 | 1 | 630.103 | 1 | — | — | — | — |
| 3A | slitta posteriore | 630.104 | 1 | 630.104 | 1 | 630.104 | 1 | — | — | — | — |
| 4A | perno guida molla | 738.131 | 2 | 738.131 | 2 | 738.131 | 2 | — | — | — | — |
| 5A | perno battuta molla | 738.130 | 2 | 738.130 | 2 | 738.130 | 2 | — | — | — | — |
| 6A | lamierino di riparo | 750.150 | 2 | 750.150 | 2 | 750.150 | 2 | — | — | — | — |
| 7A | lardone anteriore | 750.160A | 1 | 750.160A | 1 | 750.160A | 1 | — | — | — | — |
| 7A | lardone posteriore | 750.160P | 1 | 750.160P | 1 | 750.160P | 1 | — | — | — | — |
| 8A | vite registro lardone | 705.625 | 2 | 705.626 | 2 | 705.630D | 2 | 705.630D | 2 | 705.630D | 2 |
| 9A | pastiglia di riscontro | 728.110 | 4 | 728.110 | 4 | 728.110 | 4 | 728.110 | 4 | 728.110 | 4 |
| 10A | molla | 718.110 | 2 | 718.110 | 2 | 718.110 | 2 | 718.610 | 2 | 718.610 | 2 |
| 1B | spina fulcro leva | 736.103 | 2 | 736.103 | 2 | 736.103 | 2 | 736.603 | 2 | 736.603 | 2 |
| C | LEVA TRAV. ANTERIORE E POSTERIORE COMPLETA DEGLI ART. INDICATI CON C | 632.100 | — | 632.100 | — | 632.100 | — | 632.600 | — | 632.610 | — |
| 1C | leva trav. anteriore e/o posteriore | 632.101 | 1 | 632.101 | 1 | 632.101 | 1 | 632.601 | 1 | 632.611 | 1 |
| 2C | vite di registro ritorno leva | 708.776 | 1 | 708.776 | 1 | 708.776 | 1 | 708.895 | 1 | 632.607 | 1 |
| 3C | vite di registro tastatori | 713.650 | 2 | 713.650 | 2 | 713.650 | 2 | 713.650 | 2 | 713.650 | 2 |
| 4C | tastatore camme | 512.101 | 2 | 512.101 | 2 | 512.101 | 2 | 512.601 | 2 | 512.601 | 2 |
| 5C | nonio graduato | 724.610 (1) | 1 | 724.610 (4) | 1 | 724.610 (7) | 1 | 724.610 | 1 | 724.610 | 1 |
| 6C | indice graduato | 724.611 (2) | 1 | 724.611 (5) | 1 | 724.611 (8) | 1 | 724.611 | 1 | 724.611 | 1 |
| 7C | vite micrometrica | 726.620 (3) | 1 | 726.620 (6) | 1 | 726.620 (9) | 1 | 726.620 | 1 | 726.620 | 1 |
| 8C | pastiglia di ottone diam. 5 | 728.901 | 1 | 728.901 | 1 | 728.901 | 1 | 728.901 | 1 | 728.901 | 1 |
| 9C | vite bloccaggio nonio | 708.617 | 1 | 708.617 | 1 | 708.617 | 1 | 708.617 | 1 | 708.617 | 1 |
| 10C | vite bloccaggio tastatore | 708.726 | 2 | 708.726 | 2 | 708.726 | 2 | 708.824 | 2 | 708.824 | 2 |
| 1 | porta camme | 500.101 | 3 | 500.201 | 3 | 500.201 | 3 | 500.601 | 3 | 500.601 | 3 |
| 2 | camme | 421.101 | — | 421.101 | — | 421.101 | — | 421.601 | — | 421.601 | — |
| 3 | squadretto di fermo misura slitte trav. | 750.110 | 2 | 750.110 | 2 | 750.110 | 2 | 750.110 | 2 | 750.110 | 2 |

(1) Per TRAUB 15 vecchio tipo ord. art. 724.110
 (2) Per TRAUB 15 vecchio tipo ord. art. 724.111
 (3) Per TRAUB 15 vecchio tipo ord. art. 726.120

(4) Per leve originali ord. art. 724.210
 (5) Per leve originali ord. art. 724.211
 (6) Per leve originali ord. art. 726.220

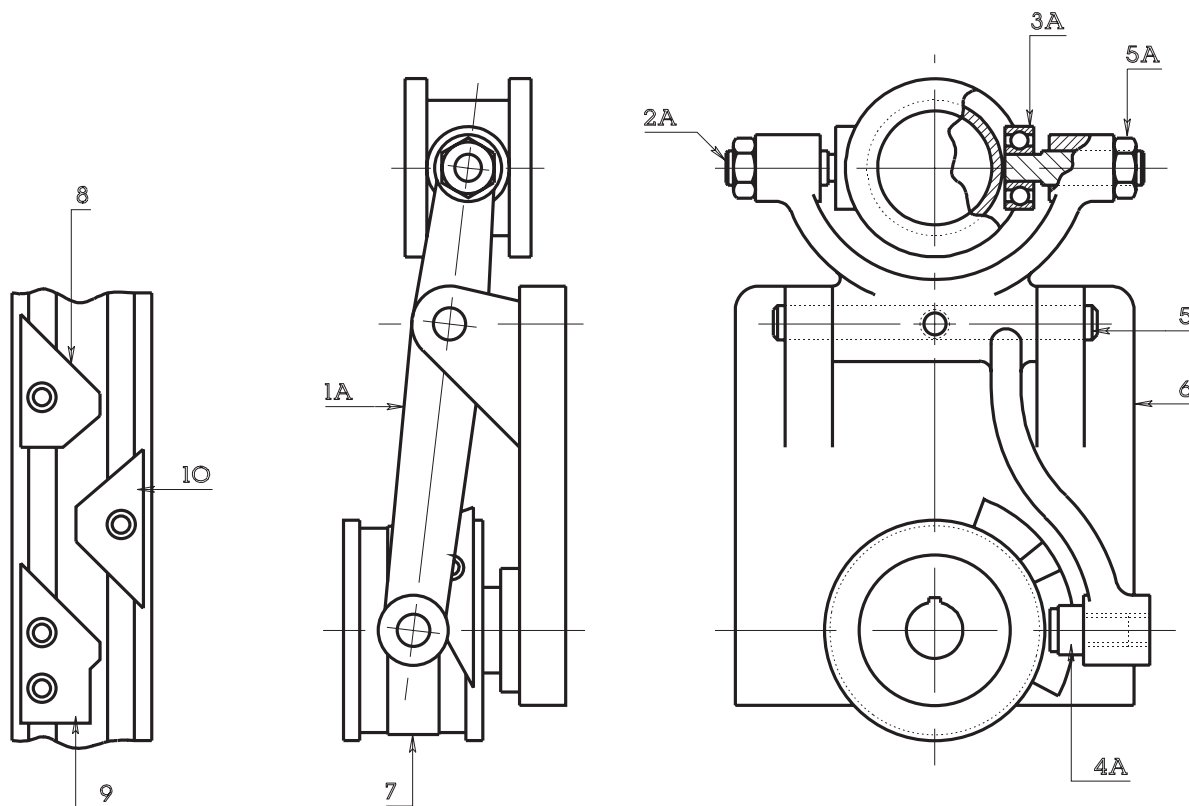
(7) Per leve originali ord. art. 724.230
 (8) Per leve originali ord. art. 724.231
 (9) Per leve originali ord. art. 726.211





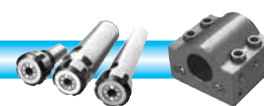
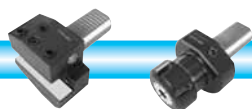
DISPOSITIVO DI APERTURA E CHIUSURA PINZA Tipo 640

OPEN-CLOSE COLLET DEVICE



| description | | TRAUB A15-20-25 | | TRAUB A36-42 | | TRAUB A60 | | TRAUB TB30-42 | | TRAUB TB60 | | SAIC B26-30 | |
|-------------|---|--------------------|-------|--------------------|-------|--------------------|-------|---------------|-------|------------|-------|--------------------|-------|
| N. | descrizione | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz |
| A | LEVA FORCELLA COMPLETA DEGLI ARTICOLI INDICATI CON "A" | 640.100 | 1 | 640.600 | 1 | 640.610 | 1 | 640.700 | 1 | 640.710 | 1 | 640.200 | 1 |
| 1A | leva forcilla (solo fusione) | 640.101 | 1 | 640.601 | 1 | 640.611 | 1 | 640.701 | 1 | 640.711 | 1 | 640.201 | 1 |
| 2A | perno eccentrico | 730.101 | 2 | 730.601 | 2 | 730.601 | 2 | 730.701 | 2 | 730.701 | 2 | 730.101 | 2 |
| 3A | cuscinetto | 716.102 | 2 | 716.601 | 2 | 716.601 | 2 | 716.701 | 2 | 716.701 | 2 | 716.102 | 2 |
| 4A | perno e rullo | 514.121 514.112 | 1 | 514.611 514.612 | 1 | 514.611 514.612 | 1 | 514.720 | 1 | 514.720 | 1 | 514.231 514.232 | 1 |
| 5A | dado | 12x1 | 2 | 16x1 | 2 | 16x1 | 2 | 16x1 | 2 | 16x1 | 2 | 12x1 | 2 |
| 5 | spina fulcro leva | 736.104 | 1 | 736.604 | 1 | 736.604 | 1 | 736.604 | 1 | 736.604 | 1 | 736.204 | 1 |
| 6 | carter supporto leva | 642.101 | 1 | 642.601 | 1 | 642.601 | 1 | 642.701 | 1 | 642.701 | 1 | 642.201 | 1 |
| 7 | porta camme | 508.101 | 1 | 508.601 | 1 | 508.601 | 1 | 508.701 | 1 | 508.701 | 1 | 508.201 | 1 |
| 8 | camme contro | 439.101 | 1 | 439.601 | 1 | 439.601 | 1 | 439.701 | 1 | 439.701 | 1 | 439.101 | 1 |
| 9 | camme chiusura | 439.102 | 1 | 439.602 | 1 | 439.602 | 1 | 439.702 | 1 | 439.702 | 1 | 439.102 | 1 |
| 10 | camme apertura | 439.103 | 1 | 439.603 | 1 | 439.603 | 1 | 439.703 | 1 | 439.703 | 1 | 439.103 | 1 |
| — | serie tre camme (8-9-10) | 439.100 | 1 | 439.600 | 1 | 439.600 | 1 | 439.700 | 1 | 439.700 | 1 | 439.100 | 1 |

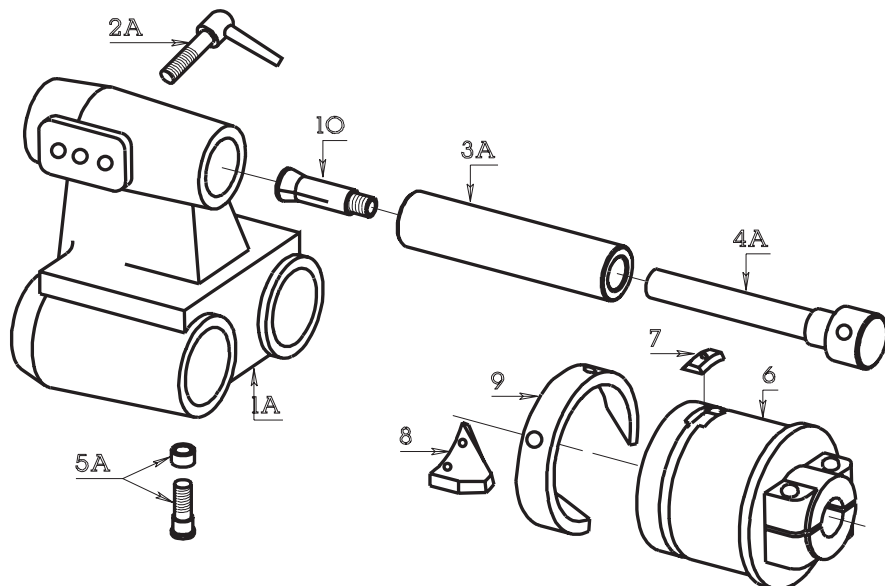
Gli art. 640.101 / 736.104 / 514.120 vanno bene anche per il TRAUB TC15
(solo l'art. 730.101 si differenzia perché al posto del cuscinetto va montato un tassello)





CONTROPUNTA Tipo 650

TAILSTOCK

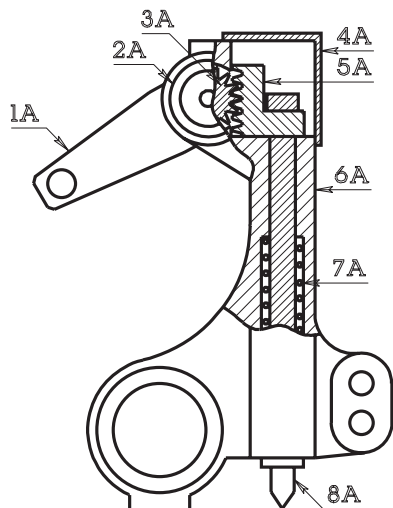


(1) Foro per canotto porta pinza diam. 36
(2) Foro per canotto porta pinza diam. 30

| N. | descrizione | ART. TRAUB A 15-20-25 | ART. SAIC B 26-30 | ART. SAIC B 26-30 | ART. ITS 26 | ART. TRAUB A 36-42-60 | ART. TRAUB TB 30-42-60 |
|----------|--|--------------------------|----------------------|----------------------|--------------------|--------------------------|---------------------------|
| A | CONTROPUNTA COMPLETA DEGLI ARTICOLI CONTRASSEGNA TI CON "A" | 650.100 | 650.200 (1) | 650.201C (2) | 650.203C | 650.600 | 650.700 |
| 1A | contropunta (con manetta) | 650.101 | 650.201 | 650.201B | 650.203 | 650.601 | 650.701 |
| 2A | manetta | 650.102 | 650.102 | 650.102 | 650.102 | 650.602 | — |
| 3A | canotto porta pinza | 374.101 | 374.201 | 374.202 | 374.202 | 374.601 | 374.601 |
| 4A | tirante | 376.101 | 376.201 | 376.201 | 376.201 | 376.601 | 376.601 |
| 5A | perno e rullo | 514.121 514.112 | 514.231 514.232 | 514.231 514.232 | 514.271 514.272 | 514.611 514.612 | 514.720 |
| 6 | porta camme | 502.101 | 502.201 | 502.201 | 502.201 | 502.601 | 502.701 |
| 7 | tassello curvo | 510.101 | 510.201 | 510.201 | 510.201 | 510.601 | 510.601 |
| 8 | camme richiamo | 437.101 | 437.201 | 437.201 | 437.201 | 437.601 | 437.601 |
| 9 | camme foratura | 433.101 | 433.201 | 433.201 | 433.201 | 433.601 | 433.601 |
| 10 | pinza | 018.020 | 020.200 | 020.200 | 020.200 | 018.046 | 018.046 |

FERMO BARRA VERTICALE Tipo 660

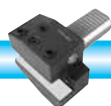
VERTICAL STOP DEVICE



Per SAIC B 26-30

Può essere montato anche su:
TRAUB A 15-20-25 - ITS 26 - GIORGI 25-32

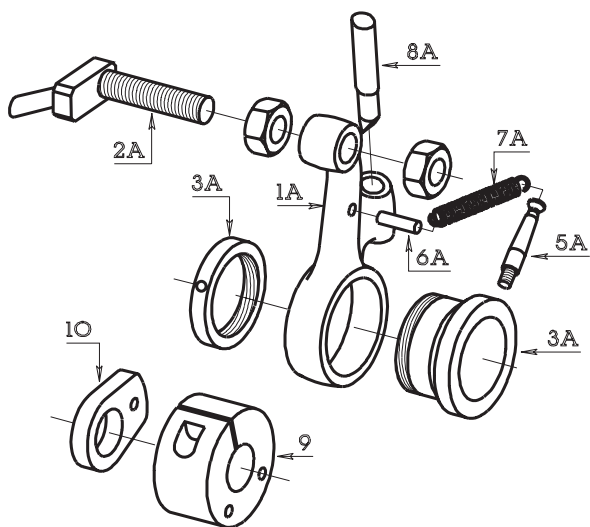
| N. | descrizione | ART. |
|----------|--|----------------|
| A | FERMO BARRA COMPLETO DEGLI ARTICOLI CONTRASSEGNA TI CON "A" | 660.200 |
| 1A | puntalino fermo barra | 662.201 |
| 2A | alberino con ingranaggio | 660.202 |
| 3A | ghiera di registro | 660.203 |
| 4A | lamierino di protezione | 660.205 |
| 5A | cremagliera | 660.204 |
| 6A | corpo fusione | 660.201 |
| 7A | molla ritorno tastatore | 718.201 |
| 8A | tastatore | 512.201 |





DISPOSITIVO DI FERMO BARRA Tipo 660

STOP DEVICE



| description | | | |
|-------------|--|--------------------------|--------------------------|
| N. | descrizione | ART. TRAUB A 15-20-25 | ART. TRAUB A 36-42-60 |
| A | FUSIONE TIPO DIRITTA COMPLETA DEGLI ART. CONTRASSEGNA TI CON "A" | 660.100 | 660.600 |
| A | FUSIONE TIPO CURVA COMPLETA DEGLI ART. CONTRASSEGNA TI CON "A" | 660.110 | — |
| 1A | leva tipo diritta (1) | 660.101 | 660.601 |
| 1A | leva tipo curva (2) | 660.111 | — |
| 2A | puntalino fermo barra (1) | 662.101 | 662.601 |
| 2A | puntalino fermo barra (2) | 662.101B | — |
| 3A | bussola di guida leva con ghiera regis. | 664.101 | 664.601 |
| 5A | perno tendi molla (già montato su 3A) | 738.101 | 738.101 |
| 6A | perno tendi molla | 738.110 | 738.610 |
| 7A | molla | 719.101 | 719.601 |
| 8A | tastatore | 512.101 | 512.601 |
| 9 | porta camme | 500.101 | 500.601 |
| 10 | camme | 420.101 | 420.601 |
| 11 | anello di battuta bussola | 664.102 | 664.602 |

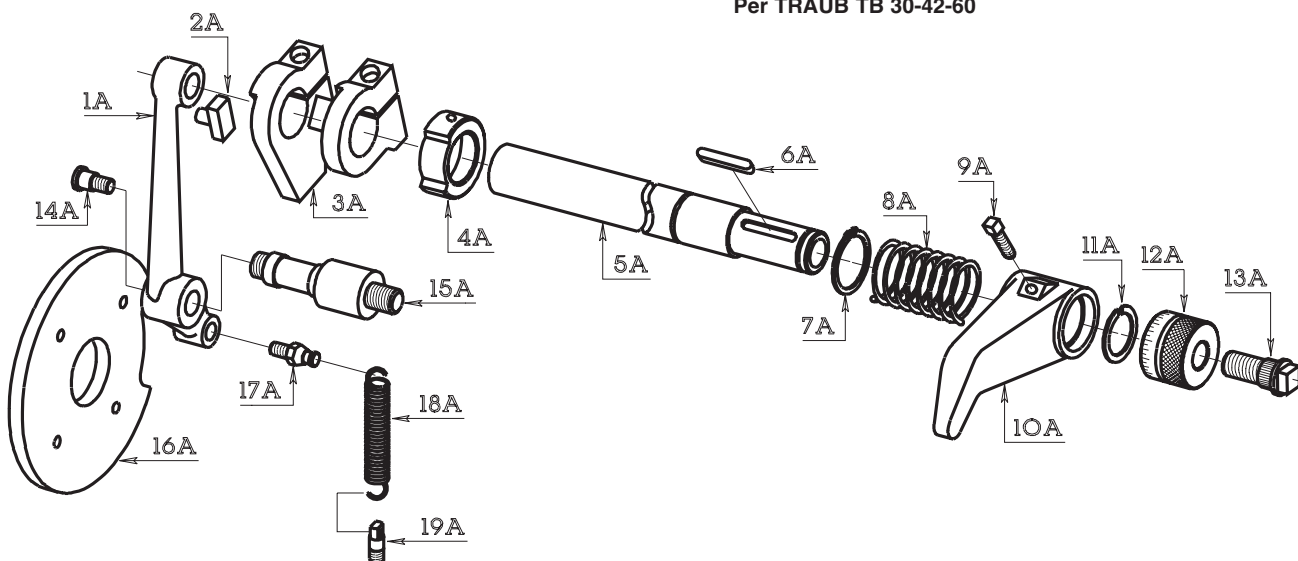
Gli art. 660.100 e 660.110 possono essere montati anche su macchine SAIC B26-30 , ITS 26 , GIORGI 25

(1) con la leva 660.101 va montato il puntalino 662.101
(2) con la leva 660.111 va montato il puntalino 662.101B

FERMO BARRA VERTICALE Tipo 660

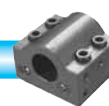
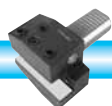
VERTICAL STOP DEVICE

Per TRAUB TB 30-42-60



| description | | |
|-------------|---|---------|
| N. | descrizione | ART. |
| A | FERMO BARRA COMPLETO DEGLI ART. CONTRASSEGNA TI CON "A" | 660.700 |
| 1A | leva di comando | 660.701 |
| 2A | pastiglia pattino | 728.701 |
| 3A | morsetto | 660.702 |
| 4A | anello di battuta | 660.704 |
| 5A | albero | 660.703 |
| 6A | chiavetta 8x40 | — |
| 7A | seiger x albero diam. 30 | — |
| 8A | molla | 718.701 |

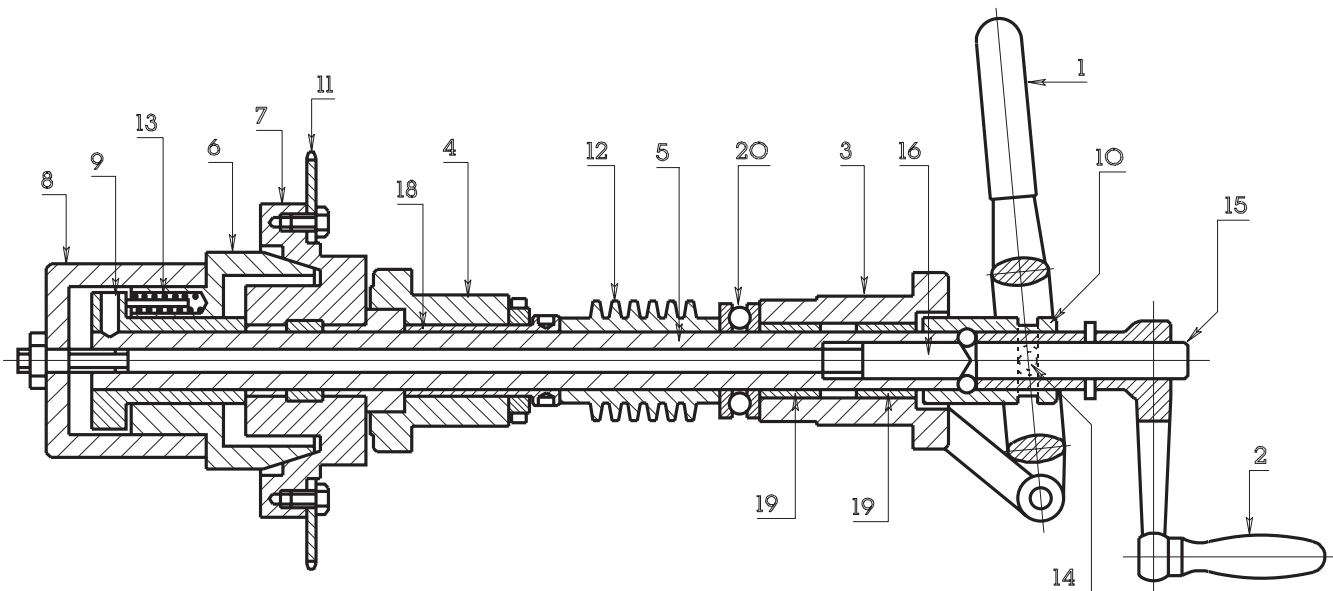
| N. | descrizione | ART. |
|-----|-------------------|---------|
| 9A | vite | 708.830 |
| 10A | fermo barra | 662.701 |
| 11A | molla | 720.710 |
| 12A | nonio graduato | 724.701 |
| 13A | vite di registro | 726.701 |
| 14A | perno e rullo | 514.710 |
| 15A | spina fulcro leva | 660.705 |
| 16A | camme | 420.701 |
| 17A | perno tendi molla | 738.702 |
| 18A | molla | 719.701 |
| 19A | perno tendi molla | 738.701 |





GRUPPO FRIZIONE

FRICITION GROUP

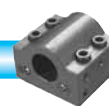
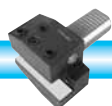


(1) Per TRAUB A 36-42 (foro diam. 75)

(2) Per TRAUB A 60 (foro diam. 95)

(3) Su questo articolo va montata la corona art. 550.621, quindi se l'articolo 678.600 viene richiesto per TRAUB A42 occorre ordinare anche questa corona.

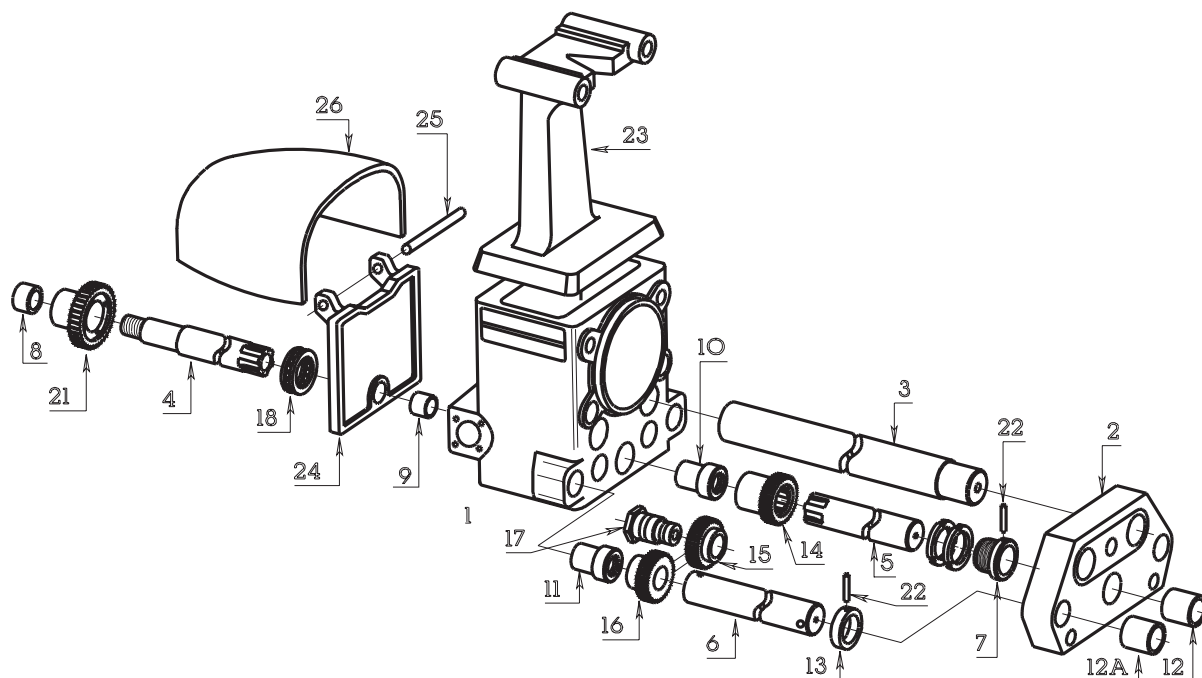
| N. | descrizione | n. Pz | ART. TRAUB A 15-20-25 | ART. TRAUB A 36-42-60 | ART. SAIC B 26-30 |
|-----|--------------------------------|-------|-----------------------|-----------------------|-------------------|
| 1 | leva d'innesto frizione | 1 | 670.101 | 670.601 | — |
| 2 | manovella frizione | 1 | 672.101 | 672.601 | — |
| 3 | supporto albero anteriore | 1 | 674.101 | — | — |
| 4 | supporto albero posteriore | 1 | 674.102 | — | — |
| 5 | albero frizione | 1 | 676.101 | 676.601 | 676.201 |
| 6-7 | cono e disco frizione | 1 | 678.100 | 678.600 (3) | 678.100 |
| 8 | calotta di chiusura | 1 | 678.103 | 678.603 | 678.103 |
| 9 | bussola battuta molle | 1 | 678.104 | 678.604 | — |
| 10 | boccola scorrevole premi sfere | 1 | 678.105 | 678.605 | — |
| 11 | corona dentata Z45 3/8 | 1 | 550.120 | 550.620 (1) | 550.120 |
| 11 | corona dentata Z45 3/8 | 1 | — | 550.621 (2) | — |
| 12 | vite senza fine | 1 | 520.101 | 520.601 | 520.201 |
| 13 | molla di pressione | 4 | 718.140 | 718.640 | 718.140 |
| 14 | pastiglia d'innesto | 2 | 728.120 | 728.620 | — |
| 15 | spina d'innesto manovella | 1 | 736.106 | 736.606 | — |
| 16 | perno di spinta sfere | 1 | 750.102 | — | — |
| 18 | cuscinetto a rullini | 1 | 714.120 | 714.620 | — |
| 19 | cuscinetto a rullini | 1 | 714.121 | 714.621 | — |
| 20 | cuscinetto assiale a sfere | 1 | 715.110 | 715.610 | 715.110 |
| 21 | sfere di acciaio | 3 | diametro 8 | diametro 10 | — |



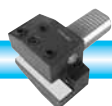


FANTINA . ALBERI PORTA CAMME Tipo 684 - 686 - 690 - 692 - 694

SLIDING HEADSTOCK - CAM SHAFT HOLDER



| N° | descrizione | TRAUB A 15-20-25 | | TRAUB A 36-42-60 | | SAIC B 26-30 | | SAIC B 45 | |
|-----|--|------------------|-------|------------------|-------|--------------|-------|-----------|-------|
| | | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz | ART. | n. Pz |
| 1 | fantina | — | — | — | — | — | — | — | — |
| 2 | supporto | — | — | — | — | — | — | — | — |
| 3 | alberi guida contropunta | 684.101 | 2 | 684.601 | 2 | 684.201 | 2 | — | — |
| 4 | albero porta ruota elicoidale | 686.101 | 1 | 686.601 | 1 | 686.201 | 1 | — | — |
| 5 | albero centrale porta camme | 686.110 | 1 | 686.610 | 1 | 686.210 | 1 | — | — |
| 6 | alberi laterali porta camme | 686.120 | 2 | 686.620 | 2 | 686.220 | 2 | — | — |
| 7 | boccola di registro completa di ghiere | 750.116 | 1 | — | — | — | — | — | — |
| 8 | boccola intermedia nel carter porta forcella | 690.101 | 1 | — | — | — | — | — | — |
| 9 | boccola guida albero ruota elicoidale | 690.110 | 1 | 690.610 | 1 | — | — | 690.810 | 1 |
| 10 | boccola guida albero centrale (fantina) | 690.120 | 1 | 690.620 | 1 | 690.220 | 1 | 690.820 | 1 |
| 11 | boccola alberi laterali (fantina) | 690.120 | 2 | 690.621 | 2 | 690.221 | 2 | 690.821 | 2 |
| 12 | boccola guida albero (supporto) | 690.130 | 1 | 690.630 | 1 | 690.220 | 1 | — | — |
| 12A | boccola guida alberi laterali (supporto) | 690.130 | 2 | 690.631 | 2 | 690.220 | 2 | — | — |
| 13 | anella battuta boccola laterale testata | 750.115 | 2 | — | — | — | — | — | — |
| 14 | ingranaggio per albero centrale | 692.110 | 1 | 692.610 | 1 | 692.210 | 1 | 692.810 | 1 |
| 15 | ingranaggi intermedi | 692.120 | 2 | 692.620 | 2 | 692.220 | 2 | 692.820 | 2 |
| 16 | ingranaggi per alberi laterali | 692.121 | 2 | 692.621 | 2 | 692.221 | 2 | 692.821 | 2 |
| 17 | perno per ingranaggio intermedio | 694.101 | 2 | 694.601 | 2 | 694.201 | 2 | — | — |
| 17B | vite bloccaggio perno p.ingranaggio intermedio | 694.102 | 2 | 694.602 | 2 | 694.202 | 2 | — | — |
| 18 | cuscinetto assiale albero corona | 715.610 | 1 | 715.621 | 1 | 715.610 | 1 | — | — |
| 18A | cuscinetto assiale albero centrale | — | — | 715.621 | 1 | — | — | — | — |
| 19 | cuscinetto assiale albero laterale | — | — | 715.620 | 2 | — | — | — | — |
| 21 | ruota elicoidale | 522.101 | 1 | 522.601 | 1 | 522.201 | 1 | — | — |
| 22 | spina elastica diam. 6 | — | 5 | — | — | — | 5 | — | — |
| 23 | supporto capottine | 681.101 | 1 | — | — | — | — | — | — |
| 24 | carter porta leva forcella | 642.101 | 1 | 642.601 | 1 | 642.201 | 1 | — | — |
| 25 | spina leva forcella | 736.104 | 1 | 736.604 | 1 | 736.204 | 1 | — | — |
| 26 | carter copri manicotto porta levette | 679.101 | 1 | — | — | — | — | — | — |





VITI DI REGISTRAZIONE PER LARDONI E PORTA UTENSILI Tipo 705

ADJUSTING SCREWS FOR TOOLHOLDERS AND SLIDERS

| Code | | | | | for code |
|----------|-------|----|------|------|-----------------------------|
| ART. | d | L | D | Fig. | per articolo |
| 705.407 | 4x0.7 | 7 | 9 | 1 | 175.100 |
| 705.508 | 5x0.8 | 8 | 10.5 | 2 | 141.000 - 154.000 - 175.200 |
| 705.514 | 5x0.8 | 14 | 10.5 | 2 | 136.000 - 130.000 |
| 705.525 | 5x0.8 | 25 | 10 | 1 | registro lardoni |
| 705.525B | 5x0.8 | 25 | 12 | 1 | registro lardoni |
| 705.625 | 6x1 | 25 | 12 | 1 | 600.000 - 620.000 - 630.000 |
| 705.626 | 6x1 | 26 | 12 | 3 | registro lardoni carri |
| 705.630 | 6x1 | 30 | 13 | 1 | registro lardoni carri |
| 705.630B | 6x1 | 30 | 14 | 1 | registro lardoni carri |
| 705.630C | 6x1 | 30 | 15 | 1 | registro lardoni carri |

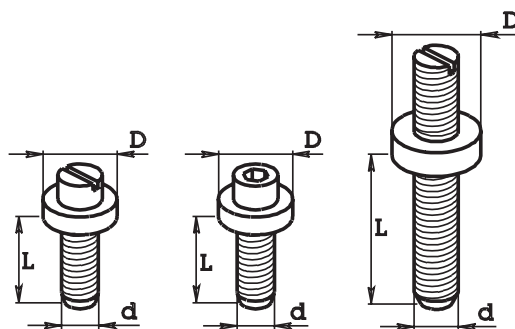


Fig. 1

Fig. 2

Fig. 3

VITI A TESTA QUADRA Tipo 708 - 709 - 710 - 712 - 713

SQUARE HEADED SCREWS

| ART. | d | L | D | S | Fig. |
|---------|-------|----|---|---|------|
| 708.515 | 5 MA | 15 | — | 5 | 1 |
| 708.617 | 6 MA | 17 | — | 6 | 1 |
| 708.620 | 6 MA | 20 | — | 6 | 1 |
| 708.626 | 6 MA | 26 | — | 6 | 1 |
| 708.636 | 6 MA | 36 | — | 6 | 1 |
| 708.642 | 6 MA | 42 | — | 6 | 1 |
| 708.650 | 6 MA | 50 | — | 6 | 1 |
| 708.717 | 7 MA | 17 | — | 6 | 1 |
| 708.721 | 7 MA | 21 | — | 6 | 1 |
| 708.726 | 7 MA | 26 | — | 6 | 1 |
| 708.732 | 7 MA | 32 | — | 6 | 1 |
| 708.740 | 7 MA | 40 | — | 6 | 1 |
| 708.750 | 7 MA | 50 | — | 6 | 1 |
| 708.756 | 7 MA | 56 | — | 6 | 1 |
| 708.776 | 7 MA | 76 | — | 6 | 1 |
| 708.824 | 8 MA | 24 | — | 6 | 1 |
| 708.830 | 8 MA | 30 | — | 6 | 1 |
| 708.840 | 8 MA | 40 | — | 6 | 1 |
| 708.850 | 8 MA | 50 | — | 6 | 1 |
| 708.860 | 8 MA | 60 | — | 6 | 1 |
| 708.880 | 8 MA | 80 | — | 6 | 1 |
| 708.028 | 10 MA | 28 | — | 6 | 1 |

| ART. | d | L | D | S | Fig. |
|---------|-------|----|----|----|------|
| 708.038 | 10 MA | 38 | — | 6 | 1 |
| 708.048 | 10 MA | 48 | — | 6 | 1 |
| 708.058 | 10 MA | 58 | — | 6 | 1 |
| 709.820 | 8x1 | 20 | — | 6 | 1 |
| 709.825 | 8x1 | 25 | — | 6 | 1 |
| 709.830 | 8x1 | 30 | — | 6 | 1 |
| 709.835 | 8x1 | 35 | — | 6 | 1 |
| 710.618 | 6 MA | 18 | 10 | 9 | 2 |
| 710.630 | 6 MA | 30 | 10 | 9 | 2 |
| 710.640 | 6 MA | 40 | 10 | 9 | 2 |
| 710.730 | 7 MA | 30 | 10 | 9 | 2 |
| 710.740 | 7 MA | 40 | 10 | 9 | 2 |
| 710.750 | 7 MA | 50 | 10 | 9 | 2 |
| 712.740 | 7 MA | 40 | 12 | 9 | 2 |
| 712.750 | 7 MA | 50 | 12 | 9 | 2 |
| 712.828 | 8 MA | 28 | 12 | 10 | 2 |
| 712.850 | 8 MA | 50 | 12 | 10 | 2 |
| 713.615 | 6 MA | 15 | 14 | 6 | 2 |
| 713.620 | 6 MA | 20 | 14 | 6 | 2 |
| 713.650 | 6 MA | 50 | 14 | 10 | 2 |

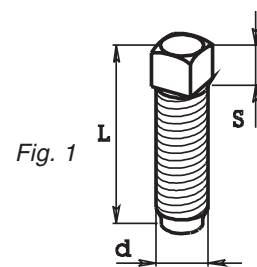


Fig. 1

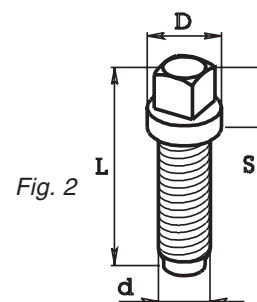


Fig. 2

CHIAVI Tipo 706 PER VITI A TESTA QUADRA

PIN SPANNER FOR SQUARE HEADED SCREWS

CHIAVE Tipo "PIPA"

Fig. 1

| ART. (Code) | Quadro (square) | Altezza (height) | Lunghezza (length) |
|-------------|-----------------|------------------|--------------------|
| 706.106 | 6 | 22 | 73 |
| 706.108 | 8 | 22 | 83 |

CHIAVE Tipo "T"

Fig. 2

| ART. (Code) | Quadro (square) | Altezza (height) | Lunghezza (length) |
|-------------|-----------------|------------------|--------------------|
| 706.206 | 6 | 80 | 73 |
| 706.208 | 8 | 85 | 83 |

Fig. 1

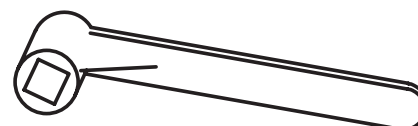
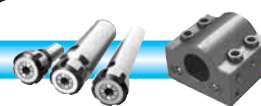
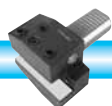
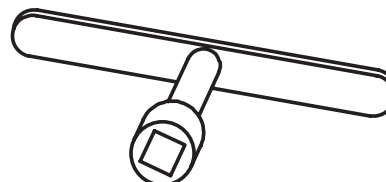


Fig. 2





CUSCINETTI

BEARINGS

CUSCINETTI A RULLI Tipo 714

CYLINDRICAL ROLLER BEARINGS

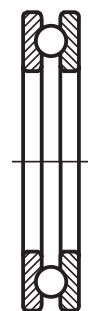
| Code | outside diam. | inside diam. | thickness | for equipment | machine |
|-------------|---------------|--------------|---------------|-----------------------------|------------------|
| ART. | diam. | foro | spess. | Per parti meccaniche | Macchina |
| 714.110 | 24 | 15 | 23 | apparecchio fora filetti | TRAUB A 15-20-25 |
| 714.210 | 28 | 15 | 20 | apparecchio fora filetti | SAIC B 26 |
| 714.120 | 28 | 20 | 16 | disco frizione | TRAUB A 15-20-25 |
| 714.620 | 33 | 25 | 16 | disco frizione | TRAUB A 36-42-60 |
| 714.121 | 28 | 20 | 20 | supporto anteriore frizione | TRAUB A 15-20-25 |
| 714.621 | 33 | 25 | 20 | supporto anteriore frizione | TRAUB A 36-42-60 |



CUSCINETTI ASSIALI A SFERA (REGGISPINTA) Tipo 715

AXIAL BALL BEARINGS

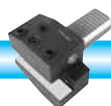
| Code | outside diam. | inside diam. | thickness | for equipment | machine |
|-------------|---------------|--------------|---------------|-----------------------------------|------------------|
| ART. | diam. | foro | spess. | Per parti meccaniche | Macchina |
| 715.110 | 35 | 20 | 10 | frizione albero porta vite s.fine | TRAUB A 15-20-25 |
| 715.610 | 42 | 25 | 11 | albero porta corona in bronzo | TRAUB A 15-20-25 |
| 715.610 | 42 | 25 | 11 | frizione albero porta vite s.fine | TRAUB A 36-42-60 |
| 715.620 | 47 | 30 | 11 | albero porta camme laterale | TRAUB A 36-42-60 |
| 715.621 | 52 | 35 | 12 | albero p.camme e corona centr. | TRAUB A 36-42-60 |



CUSCINETTI A SFERE Tipo 716

BALL BEARINGS

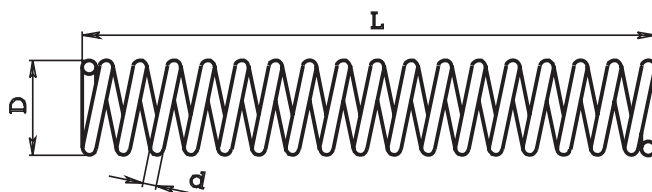
| Code | outside diam. | inside diam. | thickness | for equipment | machine |
|-------------|---------------|--------------|---------------|-----------------------------|-------------------|
| ART. | diam. | foro | spess. | Per parti meccaniche | Macchina |
| 716.101 | 22 | 8 | 7 | forcella (vecchio tipo) | TRAUB A 15 |
| 716.102 | 30 | 10 | 9 | forcella | TRAUB A 15-20-25 |
| 716.601 | 32 | 12 | 10 | forcella | TRAUB A 36-42-60 |
| 716.701 | 32 | 12 | 14 | forcella | TRAUB TB 36-42-60 |
| 716.111 | 72 | 35 | 17 | mandrino ant. e post. | TRAUB A 15 |
| 716.121 | 80 | 40 | 18 | mandrino posteriore | TRAUB A 20 |
| 716.131 | 85 | 45 | 19 | mandrino anteriore | TRAUB A 20 |
| 716.130 | 90 | 50 | 20 | mandrino anteriore | TRAUB A 25 |
| 716.131 | 85 | 45 | 19 | mandrino posteriore | TRAUB A 25 |
| 716.610 | 125 | 70 | 24 | mandrino anteriore | TRAUB A 42 |
| 716.611 | 120 | 65 | 23 | mandrino posteriore | TRAUB A 42 |
| 716.620 | 130 | 85 | 22 | mandrino ant. e post. | TRAUB A 60 |
| 716.710 | 130 | 75 | 25 | mandrino anteriore | TRAUB TB 42 |
| 716.610 | 125 | 70 | 24 | mandrino posteriore | TRAUB TB 42 |
| 716.720 | 140 | 90 | 24 | mandrino anteriore | TRAUB TB 60 |
| 716.620 | 130 | 85 | 22 | mandrino posteriore | TRAUB TB 60 |



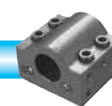
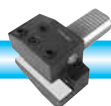


MOLLE A SPINTA Tipo 718

PUSHING SPRINGS



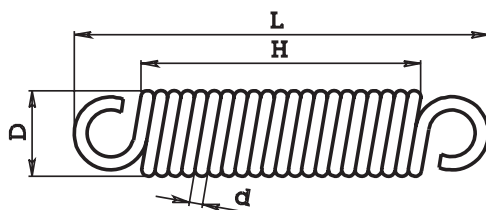
| Code | | | | for code | for equipment | for machine |
|----------|------|-----|-----|---|---------------------------------------|---------------------------------|
| ART. | D | L | d | per articolo | x parte macchina o funzione | per macchina |
| 718.002 | 10.5 | 48 | 1.6 | 142.200 | ritorno recesso | — |
| 718.003 | 12 | 60 | 1.8 | 142.300 | ritorno recesso | — |
| 718.004 | 8.5 | 60 | 0.7 | 191.200 - 191.200L - 211.200 - 211.200L | ritorno estrazione | — |
| 718.005 | 12 | 52 | 0.8 | 190.200 - 192.200 - 210.200 180.200 - 180.300 - 200.200 200.300 - 194.000 - 194.100 | ritorno estrazione | — |
| 718.006 | 12 | 36 | 1 | — | — | — |
| 718.007 | 7.4 | 13 | 0.4 | 190.200 - 192.200 - 210.200 | premi sfera | — |
| 718.008 | 7.5 | 30 | 0.6 | 190.100 - 192.700 - 210.100 194.700 | ritorno estrazione | — |
| 718.009 | 4 | 12 | 0.2 | 190.100 - 192.700 - 210.100 | premi sfera | — |
| 718.010 | 15 | 80 | 1 | 190.300 - 190.500 - 192.300 192.500 - 210.300 | ritorno estrazione | — |
| 718.012 | 8.5 | 19 | 0.4 | 190.300 - 190.500 - 192.300 192.500 - 210.300 | premi sfera | — |
| 718.014 | 6 | 16 | 0.4 | 180.200 / 300 - 200.200 / 300 | spinta artiglio di aggancio | — |
| 718.015 | 6 | 30 | 0.8 | 681.101 | supporto cappottine | TRAUB A 15-20-25 |
| 718.016 | 4 | 16 | 0.8 | 190.300A - 190.500A - 192.300A 192.500A - 210.300A | doppia compensazione | — |
| 718.017 | 3 | 14 | 0.4 | 190.200A - 192.200A - 210.200A | doppia compensazione | — |
| 718.019 | 5.5 | 16 | 0.8 | 157.000 / 100 / 200 / 300 / 700 | premi sfera | — |
| 718.020 | 7.5 | 27 | 0.5 | 195.700 - 195.000 - 196.000 | ritorno estrazione | — |
| 718.021 | 23 | 14 | 1.5 | 172.200 | compressione | — |
| 718.019B | 9.5 | 10 | 1 | 155.000/100/200/300/400/700 9K3.2025/3025/3032/4032 | premi spina | — |
| 718.110 | 13 | 100 | 2 | 600.110 - 600.210 | carri verticali | TRAUB A 15-20-25 / SAIC B 26-30 |
| 718.110 | 13 | 100 | 2 | 630.101 - 630.201 | carri orizzontali | TRAUB A 15-20-25 / SAIC B 26-30 |
| 718.111 | 15 | 215 | 2 | 600.010 | carri verticali | TRAUB TD 16-26-36 |
| 718.112 | 11.5 | 155 | 1.6 | — | carri orizzontali | TRAUB TD 16-26-36 |
| 718.120 | 10 | 176 | 1.5 | — | ritorno canotti app. fora filetti | TRAUB A 15-20-25 |
| 718.130 | 17 | 35 | 1 | 674.100 / 200 - 676.100 / 200 | ritorno alberino scanalato | TRAUB A 15-20-25 / SAIC B 26-30 |
| 718.140 | 7 | 50 | 1 | 678.100 | disco frizione | TRAUB A 15-20-25 / SAIC B 26-30 |
| 718.150 | 14 | 121 | 1.5 | — | ritorno canotti app. fora filetti | TRAUB A 15.20-25 |
| 718.201 | 17 | 86 | 2 | 660.200 | fermo barra a cremagliera | SAIC B 26-30 |
| 718.206 | 12.5 | 19 | 3 | 512.206 | tastatore ribaltam. app. fora filetti | SAIC B 26-30 |
| 718.210 | 12.5 | 100 | 1.8 | — | carri verticali - orizzontali | GIORGI 20-25-30-32 |
| 718.231 | 7.6 | 93 | 0.7 | — | per asta app. fora filetti | CASER 26-30 |
| 718.301 | 9 | 125 | 1.2 | — | carri verticali | STROHM 75-105-125 |
| 718.610 | 14 | 120 | 2.2 | 630.601 - 630.611 | carri orizzontali | TRAUB A 36-42-60 |
| 718.640 | 10 | 60 | 1.5 | 678.100 | disco frizione | TRAUB A 36-42-60 |
| 718.650 | 13 | 155 | 2 | 600.610 | carri verticali | TRAUB A 36-42-60 |
| 718.701 | 36 | 130 | 2.5 | 660.700 | fermo barra | TRAUB TB 30-42-60 |
| 718.709 | 14 | 227 | 2 | — | — | — |
| 718.710 | 15 | 245 | 2 | 600.710 | carri verticali - orizzontali | TRAUB TB 30-42-60 |
| 718.711 | 14 | 327 | 2 | 620.711 | carri tornitura longitudinale | TRAUB TB 30-42-60 |
| 718.790 | 7 | 100 | 0.8 | — | carri verticali | TORNOS M4 - T4 |
| 718.792 | 9.5 | 110 | 1.1 | — | carri verticali | TORNOS M7 - MS7 |
| 718.901 | 11.5 | 100 | 2 | — | carri verticali - orizzontali | CASER TA 26-30 |
| 718.902 | 14.5 | 100 | 2.5 | — | — | — |
| 718.903 | 15.6 | 138 | 3 | — | carri verticali - orizzontali | CASER TA 45-50 |





MOLLE A TIRARE Tipo 719

PULLING SPRINGS



| Code | | | | | for code | for machine or function | for machine |
|---------|----|-----|-----|-----|-------------------|-----------------------------------|-------------------|
| ART. | D | H | L | d | per articolo | x parte macchina o funzione | per macchina |
| 719.101 | 13 | 32 | 58 | 1.5 | 660.100 - 660.110 | fermo barra | TRAUB A 15-20-25 |
| 719.102 | 15 | 34 | 58 | 2 | 624.100 | leva tornitura longitudinale | TRAUB A 15-20-25 |
| 719.103 | 10 | 53 | 73 | 1.5 | — | ribaltamento app. fora filetti | TRAUB A 15-20-25 |
| 719.102 | 15 | 34 | 58 | 2 | — | ribaltamento app. fora filetti | SAIC B 26-30 |
| 719.201 | 11 | 123 | 159 | 1.8 | — | ritorno app. fora filetti | SAIC B 26-30 |
| 719.202 | 10 | 80 | 100 | 1.2 | — | ritorno canotto app. fora filetti | SAIC B 26-30 |
| 719.203 | 10 | 72 | 102 | 1.2 | — | ritorno canotto app. fora filetti | ITS 26 |
| 719.601 | 15 | 45 | 71 | 2 | 660.600 | fermo barra | TRAUB A 36-42-60 |
| 719.602 | 16 | 97 | 129 | 2.2 | 624.600 | leva tornitura longitudinale | TRAUB A 36-42-60 |
| 719.701 | 20 | 89 | 129 | 3 | 660.700 | fermo barra | TRAUB TB 30-42-60 |

MOLLE SPECIALI Tipo 720

SPECIAL SPRINGS

| Code | | | | | for code |
|---------|------|-----|------|--|-------------------------------|
| ART. | D | d | Fig. | | per articolo |
| 720.002 | 22 | 0.8 | 2 | | 180.200 / 300 - 200.200 / 300 |
| 720.101 | — | — | 1 | | 728.101 |
| 720.110 | 18 | 1.5 | 2 | | 734.110 - 734.120 |
| 720.210 | 15 | 1.5 | 2 | | 734.210 |
| 720.610 | 21 | 1.5 | 2 | | 734.610 - 734.620 |
| 720.710 | 25.5 | 1.5 | 2 | | 660.700 |



Fig. 1

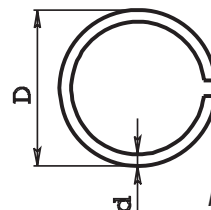


Fig. 2

MOLLE PER CANOTTI PORTA PINZA Tipo 721

COLLET HOLDER SLEEVE SPRINGS

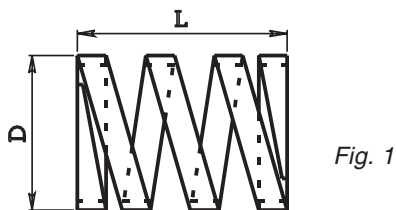


Fig. 1

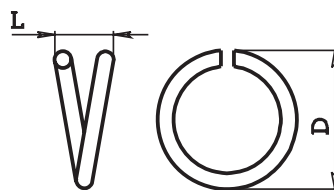
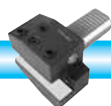


Fig. 2

| Code | | | | | for collet holder sleeves |
|---------|------|----|------|--|---|
| ART. | D | L | Fig. | | per canotti |
| 721.114 | 14.7 | 28 | 1 | | 066.210 - 066.794 |
| 721.116 | 21.5 | 22 | 1 | | 066.220 - 066.316 - 066.831 |
| 721.117 | 21.5 | 31 | 1 | | 066.800 - 066.320 - 066.331 |
| 721.120 | 27.5 | 22 | 1 | | 066.330 - 066.341 - 066.351 - 066.335 |
| 721.121 | 27.5 | 8 | 2 | | 066.820 |
| 721.125 | 31 | 37 | 1 | | 066.830 - 066.850 - 066.871 - 066.920 - 066.931 |
| 721.126 | 31 | 32 | 1 | | 066.251 - 066.240 - 066.611 |
| 721.127 | 31 | 22 | 1 | | 066.141 |
| 721.128 | 31 | 15 | 1 | | 066.130 - 066.130A |

| ART. | D | L | Fig. | per canotti |
|---------|------|----|------|--|
| 721.229 | 34.5 | 30 | 1 | 066.340-066.350-066.251R-066.352-066.361 |
| 721.230 | 34.5 | 35 | 1 | 066.610 |
| 721.231 | 37.5 | 30 | 1 | 066.250 |
| 721.232 | 37.5 | 45 | | 066.564 SA32 (010.101) |
| 721.310 | 19.5 | 15 | 1 | 066.310 - 066.321 |
| 721.315 | 24.5 | 20 | 1 | 066.315 |
| 721.636 | 41.5 | 44 | 1 | 066.860 - 066.930 |
| 721.640 | 47 | 30 | 1 | 066.360 |
| 721.641 | 47 | 35 | 1 | 066.371 - 066.381 |
| 721.642 | 47 | 40 | 1 | 066.016R - 066.430 - 066.451 - 066.640 066.756R - 066.870 - 066.881 - 066.951 |
| 721.660 | 65.5 | 60 | 1 | 066.450 - 066.950 |
| 721.742 | 47.5 | 36 | 1 | per morsa 772.142 |





NONI e INDICI Tipo 724 e VITI MICROMETRICHE Tipo 726

ADJUSTING SCREWS - INDEX - VERNIERS

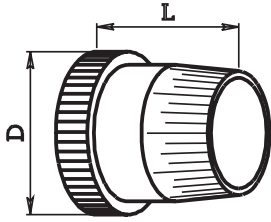


Fig. 1

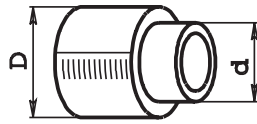


Fig. 2

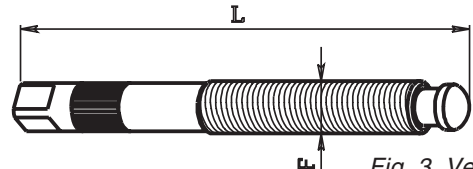


Fig. 3 Verticale
(Vertical)



Fig. 4 Traversale
(Crosswise)

| vernier | | | | index | | | | adjusting screw | | | | equipment | machine |
|---------|----|----|------|---------|----|----|------|-----------------|---------------|-----|------|-----------------------|---------------------------|
| NONIO | | | | INDICE | | | | VITE | | | | per parte macchina | Macchina |
| ART. | D | L | Fig. | ART. | D | d | Fig. | ART. | F | L | Fig. | | |
| 724.110 | 20 | 21 | 1 | 724.111 | 16 | 11 | 2 | 726.110 | 7x1 | 69 | 3 | carri vert. | TRAUB A 15 (vecchio tipo) |
| 724.110 | 20 | 21 | 1 | 724.111 | 16 | 11 | 2 | 726.120 | 7x1 | 69 | 4 | carri orizz. | TRAUB A 15 (vecchio tipo) |
| 724.210 | 26 | 34 | 1 | 724.211 | 16 | 11 | 2 | 726.210 | 8x1 | 82 | 3 | carri vert. | SAIC B 26-30 |
| 724.210 | 26 | 34 | 1 | 724.211 | 16 | 11 | 2 | 726.220 | 8x1 | 82 | 4 | carri orizz. | SAIC B 26-30 |
| 724.230 | 35 | 24 | 1 | 724.231 | 29 | 11 | 2 | 726.211 | 8x1 | 72 | 3 | carri vert. | ITS 26 |
| 724.230 | 35 | 24 | 1 | 724.231 | 29 | 11 | 2 | 726.221 | 8x1 | 72 | 4 | carri orizz. | ITS 26 |
| 724.610 | 31 | 29 | 1 | 724.611 | 21 | 15 | 2 | 726.610 | 10x1 | 95 | 3 | carri vert. | TRAUB A 15-20-25-36-42-60 |
| 724.610 | 31 | 29 | 1 | 724.611 | 21 | 15 | 2 | 726.620 | 10x1 | 87 | 4 | carri orizz. | TRAUB A 15-20-25-36-42-60 |
| 724.610 | 31 | 29 | 1 | — | — | — | — | 726.710 | 12x1 | 96 | 3 | carri vert. | TRAUB TB 30-42-60 |
| 724.710 | 74 | 28 | 1 | — | — | — | — | 726.720 | 25x3 N.B.1 | 121 | — | carri orizz. | TRAUB TB 30-42-60 |
| — | — | — | — | — | — | — | — | 726.721 | sette dentato | | — | x vite art.726.720 | TRAUB TB 30-42-60 |

N.B.1 Filetto trapezoidale
Trapezium form thread

PASTIGLIE Tipo 728

TABLETS

| Code | | | equipment | machine |
|---------|-----|------|-------------------------------------|---------------------------|
| ART. | d | Fig. | x parte macchina | Macchina |
| 728.101 | 16 | 1 | carri vert. | TRAUB A 15-20-25-36-42-60 |
| 728.110 | 10 | 2 | carri orizz. | TRAUB A 15-20-25-36-42-60 |
| 728.120 | 6 | 3 | frizione | TRAUB A 15-20-25 |
| 728.240 | 10 | 2 | carri trasversali | GIORGI GM 20-32 |
| 728.241 | 7.5 | | carri vert. | GIORGI GM 20-32 |
| 728.620 | 8 | 3 | frizione | TRAUB A 36-42-60 |
| 728.630 | 8 | 2 | carri vert. | TRAUB A 36-42-60 |
| 728.631 | 6 | 2 | carri vert. | TRAUB A 36-42-60 |
| 728.701 | 12 | 3 | fermo barra | TRAUB TB 30-42-60 |
| 728.901 | 5 | 4 | pastiglia di ottone per viti 6x1 | |
| 728.902 | 6 | 4 | pastiglia di ottone per viti 7x1 | |
| 728.903 | 6.5 | 4 | pastiglia di ottone per viti 8x1.25 | |
| 728.904 | 8.5 | 4 | pastiglia di ottone per viti 10x1.5 | |

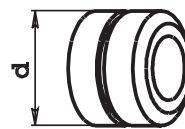


Fig. 1

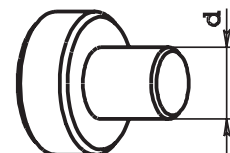


Fig. 2

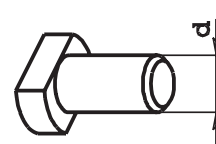


Fig. 3

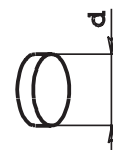
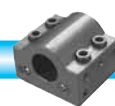
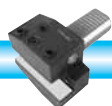


Fig. 4





PERNI PORTA CUSCINETTO Tipo 730

SHAFT JOURNAL

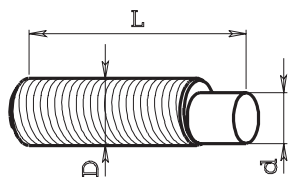


Fig. 1

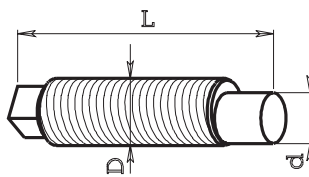


Fig. 2

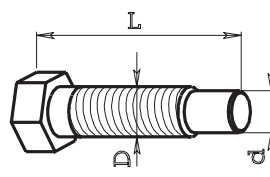


Fig. 3

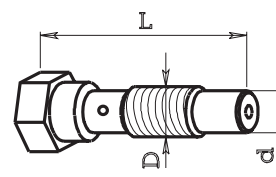


Fig. 4

E = Eccentricità tra il diametro "D" e il diametro "d"
E = Excentric measure between "D" and "d" diameter

| Code | | | | | equipment | machine | |
|----------|------|----|----|------|-----------|----------------------------|---------------------------|
| ART. | D | d | L | E | Fig. | x parte macchina | Macchina |
| 730.101 | 12x1 | 10 | 43 | 0.75 | 1 | forcella apri-chiudi pinza | TRAUB A 15-20-25 |
| 730.102 | 12x1 | 8 | 43 | 0.75 | 1 | forcella apri-chiudi pinza | TRAUB A 15 (vecchio tipo) |
| 730.330 | 14x1 | 8 | 54 | 1.5 | 2 | | INDEX 12-18-25 |
| 730.341A | 10x1 | 8 | 41 | — | 3 | forcella apri-chiudi pinza | INDEX 12-18-25 |
| 730.341B | 10x1 | 8 | 33 | — | 3 | forcella apri-chiudi pinza | INDEX 12-18-25 |
| 730.345 | 12x1 | 8 | 36 | 1 | 2 | | INDEX C 19-29 |
| 730.345B | 12x1 | 8 | 46 | 1 | 2 | | INDEX C 19-29 |
| 730.346A | 10x1 | 8 | 44 | — | 3 | forcella apri-chiudi pinza | INDEX C 29 |
| 730.346B | 10x1 | 8 | 40 | — | 4 | forcella apri-chiudi pinza | INDEX C 29 |
| 730.347A | 10x1 | 8 | 49 | — | 3 | forcella apri-chiudi pinza | INDEX C 19 |
| 730.347B | 10x1 | 8 | 45 | — | 4 | forcella apri-chiudi pinza | INDEX C 19 |
| 730.360 | 16x1 | 10 | 60 | 1.5 | 2 | | INDEX 24-36-52 |
| 730.361A | 12x1 | 10 | 53 | — | 3 | forcella apri-chiudi pinza | INDEX B 30-42 |
| 730.361B | 12x1 | 10 | 53 | — | 4 | forcella apri-chiudi pinza | INDEX B 30-42 |
| 730.362A | 12x1 | 10 | 45 | — | 3 | forcella apri-chiudi pinza | INDEX 24-36-52 |
| 730.362B | 12x1 | 10 | 34 | — | 3 | forcella apri-chiudi pinza | INDEX 24.36-52 |
| 730.380 | 14x1 | 10 | 38 | 1.5 | 2 | | INDEX B 30-42-60 |
| 730.380B | 14x1 | 10 | 52 | 1.5 | 2 | | INDEX B 30-42-60 |
| 730.381A | 12x1 | 10 | 45 | — | 3 | forcella apri-chiudi pinza | INDEX B 60 |
| 730.381B | 12x1 | 10 | 45 | — | 4 | forcella apri-chiudi pinza | INDEX B 60 |
| 730.601 | 16x1 | 12 | 54 | 1.5 | 1 | forcella apri-chiudi pinza | TRAUB A 36-42-60 |
| 730.701 | 16x1 | 12 | 47 | 1.5 | 1 | forcella apri-chiudi pinza | TRAUB TB 30-42-60 |

PERNI - SNODO Tipo 734

BALL AND SOCKET JOINTS

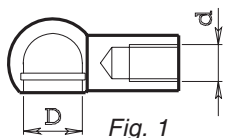


Fig. 1

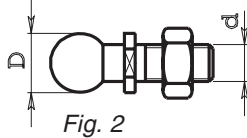


Fig. 2

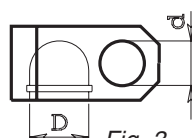


Fig. 3

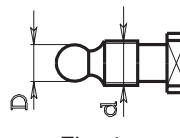


Fig. 4

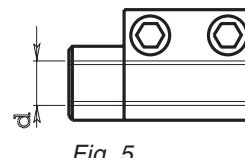
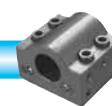
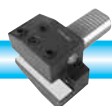


Fig. 5

| clamps | | | | pins | | | | equipment | machine |
|---------|----|--------|------|----------|----|--------|------|-------------------------------------|---------------------------|
| BUSTE | | | | PERNI | | | | x parte macchina | Macchina |
| ART. | D | d | Fig. | ART. | D | d | Fig. | | |
| 734.010 | 13 | 8x1.25 | 1 | 734.011 | 13 | 8x1.25 | 2 | tirante verticale | TRAUB A 15 (vecchio tipo) |
| 734.110 | 16 | 10x1.5 | 1 | 734.111 | 16 | 10x1.5 | 2 | tirante vert. e tornitura longitud. | TRAUB A 15-20-25 |
| 734.120 | 16 | 12.5 | 3 | 734.111 | 16 | 10x1.5 | 2 | tirante tornitura longitud. | TRAUB A 15-20-25 |
| 734.210 | 13 | 10x1.5 | 1 | 734.211 | 13 | 10x1.5 | 2 | tirante verticale | SAIC B 26 / ITS 26 |
| — | — | — | — | 734.241 | 14 | 10x1.5 | 2 | tirante verticale | GIORGI GM 20-32 |
| — | — | — | — | 734.286 | 10 | 12x1 | 4 | tirante verticale | CASER 26-30 |
| 734.610 | 19 | 14x1.5 | 1 | 734.611 | 19 | 14x1.5 | 2 | tirante vert. e tornitura longitud. | TRAUB A 36-42-60 |
| 734.620 | 19 | 14.5 | 3 | 734.611 | 19 | 14x1.5 | 2 | tirante tornitura longitud. | TRAUB A 36-42-60 |
| 734.130 | — | 12x1.5 | 5 | morsetto | | | | tornitura longitudinale | TRAUB A 15-20-25 |

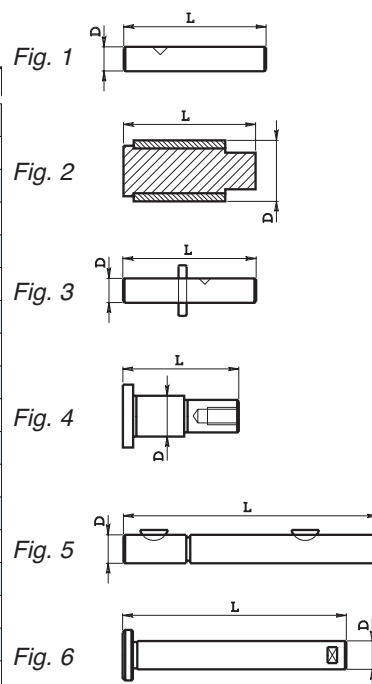




ALBERINI e SPINE Tipo 736 PER FULCRO LEVE E POMPA ACQUA

PINS FOR LEVERS AND WATER PUMPS

| Code | | | | | equipment |
|---------|----|-----|------|---|------------------------------|
| ART. | D | L | Fig. | x parte macchina | Macchina |
| 736.101 | 12 | 70 | 1 | leva superiore carro verticale | TRAUB A 15-20-25 |
| 736.102 | 30 | 65 | 2 | leva inferiore carro verticale | TRAUB A 15-20-25 |
| 736.103 | 10 | 83 | 1 | leva carri orizzontali | TRAUB A 15-20-25 |
| 736.104 | 12 | 110 | 1 | leva forcella apri-chiudi pinza | TRAUB A 15-20-25 |
| 736.106 | 12 | 66 | 3 | manovella frizione | TRAUB A 15-20-25 |
| 736.107 | 20 | 57 | 4 | leva tornitura longitudinale | TRAUB A 15-20-25 |
| 736.108 | 12 | 65 | 1 | pompa acqua | TRAUB A 15-20-25 |
| 736.109 | 12 | 131 | 1 | pompa acqua | TRAUB A 15-20-25 |
| 736.202 | 18 | 52 | 4 | leva inferiore carro verticale | SAIC B 26-30 |
| 736.204 | 14 | 108 | 1 | leva forcella apri-chiudi pinza | SAIC B 26-30 |
| 736.209 | 14 | 137 | 5 | pompa acqua | SAIC B 26-30 |
| 736.211 | 14 | 116 | 6 | leva di spinta apparecchio fora filetti | SAIC B 26-30 |
| 736.601 | 18 | 95 | 1 | leva superiore carro verticale | TRAUB A 36-42-60 |
| 736.602 | 28 | 63 | 4 | leva inferiore carro verticale | TRAUB A 36-42-60 |
| 736.603 | 16 | 104 | 1 | leva carri orizzontali | TRAUB A 36-42-60 |
| 736.604 | 18 | 135 | 1 | leva forcella | TRAUB A 36-42-60 TB 36-42-60 |
| 736.707 | 25 | 83 | 1 | leva tornitura longitudinale | TRAUB A 36-42-60 |



PERNI TENDI MOLLA Tipo 738

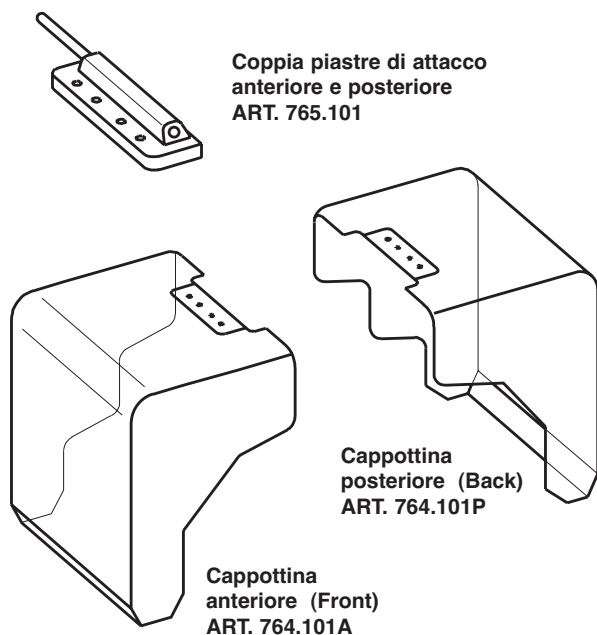
PINS FOR SPRINGS

| Code | equipment | machine |
|---------|-------------------------|------------------|
| ART. | x parte macchina | Macchina |
| 738.101 | bussola fermo barra | TRAUB A 25-42-60 |
| 738.110 | fusione fermo barra | TRAUB 25 |
| 738.120 | tornitura longitudinale | TRAUB 25 |

| Code | equipment | machine |
|---------|---------------------------------|-------------|
| ART. | x parte macchina | Macchina |
| 738.130 | battuta molla carri trasversali | TRAUB 25-42 |
| 738.131 | guida molla carri trav.-vert. | TRAUB 25-42 |
| 738.610 | fusine fermo barra | TRAUB 42-60 |
| 738.610 | tornitura longitudinale | TRAUB 42-60 |

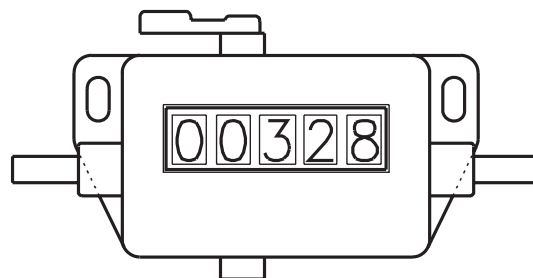
CAPPOTTINE DI PROTEZIONE Tipo 764

PROTECTIONS

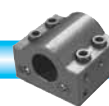
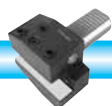


CONTAGIRI Tipo 767

REVOLUTION COUNTERS



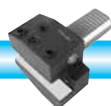
| Code | description |
|---------|-------------------------------|
| ART. | descrizione |
| 767.102 | contagiri a 5 cifre destro |
| 767.103 | contacolpi a 5 cifre destro |
| 767.104 | contagiri a 5 cifre sinistro |
| 767.105 | contacolpi a 5 cifre sinistro |





RICAMBI PER MACCHINE "STROHM"
SPARE PARTS FOR "STROHM" MACHINES

| Code | description | machine | see pag. | n. | Strohm code |
|----------|---|-------------------------|-----------|-------|-------------|
| ART. | descrizione | macchina | vedi pag. | n. Pz | cod. Strohm |
| 066.210 | canotto porta pinza della fantina | STROHM 105-125 | 128 | 1 | 670199 |
| 066.735 | canotto porta pinza | STROHM 205 tipo vecchio | 129 | 1 | 671899 |
| 066.741 | canotto porta pinza | STROHM 205 tipo nuovo | 129 | 1 | 671948 |
| 066.740 | canotto porta pinza | STROHM 255 | 129 | 1 | 671945 |
| 066.741 | canotto porta pinza | STROHM 255 riduz. a 205 | 128 | 1 | 671948 |
| 072.730 | ghiera mandrino della fantina | STROHM 125 | 129 | 1 | 303097 |
| 072.735 | ghiera mandrino | STROHM 205 tipo vecchio | 129 | 1 | 671902 |
| 072.741 | ghiera mandrino | STROHM 205 tipo nuovo | 129 | 1 | 671941 |
| 072.740 | ghiera mandrino | STROHM 255 | 129 | 1 | 671940 |
| 072.741 | ghiera mandrino | STROHM 255 riduz. a 205 | 129 | 1 | 671941 |
| 076.730 | tubo di pressione canotto porta pinza | STROHM 125 | 132 | 1 | 670375 |
| 076.731 | tubo di pressione canotto porta pinza | STROHM 75-105 | 132 | 1 | 670428 |
| 078.730 | anello di compensazione | STROHM 125 | 132 | 1 | 670476 |
| 078.731 | anello di compensazione | STROHM 75-105 | 132 | 1 | 670313 |
| 078.735 | anello di compensazione | STROHM 205 | 132 | 1 | 672905 |
| 078.745 | anello di compensazione | STROHM 255 | 132 | 1 | 672908 |
| 080.730 | manicotto di chiusura | STROHM 75-105-125 | 134 | 1 | 670077 |
| 080.730B | ghiera per manicotto 080.730 | STROHM 75.105-125 | — | 1 | 670405 |
| 080.731 | manicotto porta levette | STROHM 75-105-125 | 134 | 1 | 670216 |
| 080.732 | boccola porta cuscinetto del 080.730 | STROHM 75-105-125 | — | | 680128 |
| 080.735 | manicotto di chiusura (per martelletti 084740) | STROHM 205 tipo vecchio | 134 | 2 | 672716 |
| 080.740 | manicotto di chiusura | STROHM 255 | 134 | 1 | 671951 |
| 084.730 | levetta foro diam. 6 | STROHM 125 NAR | 138 | 2 | 661435 |
| 084.730B | levetta foro diam. 6 | STROHM 75-105-125 AS | 138 | 2 | 661434 |
| 084.731 | levetta foro diam. 8 con rullini | STROHM 125 NAR | 138 | 2 | 661435 |
| 084.731B | levetta foro diam. 8 con rullini | STROHM 75-105-125 AS | 138 | 2 | 661434 |
| 084.740 | levetta vecchio tipo | STROHM 205-255 | 138 | 2 | 680733 |
| 084.745 | levetta nuovo tipo | STROHM 205-255 | 138 | 2 | 661557 |
| 510.301 | tassello 5MA | STROHM 75-105-125 | 151 | | |
| 510.302 | tassello 6MA | STROHM 75-105-125 | 151 | | |
| 510.303 | tassello | STROHM 205-255 | 151 | | 680940 |
| 510.304 | tassello 6MA piatto | STROHM 75-105-125 | 151 | | 680345 |
| 512.301 | tastatore in metallo duro | STROHM 75-105-125 | — | | |
| 516.302 | bandierina | STROHM 75-105-125 | — | 1 | |
| 516.303 | bandierina | STROHM 75-105-125 | 154 | 1 | |
| 520.301 | vite senza fine a un principio | STROHM 75-105-125 | 155 | 1 | 670082 |
| 520.302 | vite senza fine | STROHM 205-255 | 155 | 1 | 671858 |
| 520.740 | ingranaggi vite senza fine | STROHM 205-255 | — | 1 | 671697 |
| 522.301 | corona in bronzo a un principio | STROHM 75-105-125 | 155 | 1 | 662551 |
| 522.302 | corona in bronzo registrabile | STROHM 205-255 | 155 | 1 | 662552 |
| 525.740 | ingranaggio elicoidale | STROHM 205-255 | — | 1 | 671709 |
| 570.301 | mandrino a filettare app.f.f. 3 mandrini | STROHM 75-105-125 | — | 1 | 670445 |
| 570.301B | ghiera per 570.301 570.302 app.f.f. 3 mandrini | STROHM 75-105-125 | — | 3 | 670221 |
| 570.302 | mandrino a forare app.f.f. 3 mandrini | STROHM 75-105-125 | — | 2 | 670933 |
| 571.301A | boccola diam. 18 L=24 app.f.f. 3 mandrini (forare) | STROHM 75-105-125 | — | 3 | 670183 |
| 571.301B | boccola diam. 18 L=50 app.f.f. 3 mandrini (filettare) | STROHM 75-105-125 | — | 1 | 670188 |
| 571.301C | boccola diam. 18/21 L=70 app.f.f. 3 mandrini (forare + filettare) | STROHM 75-105-125 | — | 2 | 670187 |
| 590.730 | albero fantina | STROHM 75-105-125 | — | 1 | 660038 |
| 592.730 | ghiera di registro chiusura pinza | STROHM 75-105-125 | — | 1 | 660037 |
| 594.730 | puleggia albero fantina | STROHM 75-105-125 | — | 1 | 661136 |
| 600.320 | porta utensile vert. | STROHM 125 | — | | |
| 718.301 | molla diam. 9 L=125 carri vert. 3-4-5 | STROHM 75-105-125 | 174 | 3 | 303063 |





RICAMBI PER MACCHINE "STROHM"

SPARE PARTS FOR "STROHM" MACHINES

| Code | description | machine | see pag. | n. | Strohm code |
|----------|--|-------------------|-----------|-------|-------------|
| ART. | descrizione | macchina | vedi pag. | n. Pz | cod. Strohm |
| 752.288 | bussola trascinalimento puleggia motore | STROHM 125 | — | | |
| 752.301 | artiglio pignone diam. 21x1 | STROHM 75-105-125 | — | 1 | 670212 |
| 752.302 | artiglio frizione per vite senza fine diam. 34x1.5 | STROHM 75-105-125 | — | 1 | 670082 |
| 752.303 | perno semisferico diam. 7 L=25 innesto friz. app.f.f. | STROHM 75-105-125 | — | 2 | 670886 |
| 752.303B | spina sferica diam. 8 L=24 con piano | STROHM 125 | — | | |
| 752.304 | perno semisferico diam. 7 L=37 innesto friz. app.f.f. | STROHM 75-105-125 | — | 1 | 670887 |
| 752.305 | perno scorrev. diam. 8 L=24 dispositivo presa con chius.pinza | STROHM 75-105-125 | — | 1 | 671246 |
| 752.306 | perno per rullo diam.6 L=20.5 app.f.f. 3 mandrini | STROHM 75-105-125 | — | 1 | 671288 |
| | rullino diam. 1.5 L=9.8 per 752.306 e 752.310 | STROHM 75-105-125 | — | 15 | 303963 |
| | seiger diam. albero 6 DIN 6799 per 752.306 e 752.310 | STROHM 75-105-125 | — | 2 | 301280 |
| 752.307 | perno D.9 L=94 app.f.f. | STROHM 125 | — | | 670944 |
| 752.308 | perno leva chiusura D.10 L=80 | STROHM 125 | — | | |
| 752.310 | rullo scorrevole diam. 14 L=9.8 app.f.f 3 mandrini | STROHM 75-105-125 | — | 1 | 670192 |
| 752.312 | perno D.22 d. 15 L=142 supporto app.f.f. | STROHM 125 | — | | 670810 |
| 752.314 | perno eccentrico a.c. pinza fil.8x1.25 | STROHM 125 | — | | |
| 752.340 | ingranaggio app.f.f. 3 mandrini | STROHM 75-105-125 | — | 3 | 662617 |
| 752.341 | ingranaggio app.f.f. 3 mandrini | STROHM 75-105-125 | — | 1 | 670854 |
| 752.350 | ingranaggio elicoidale | STROHM 75-105-125 | — | 1 | 672714 |
| 752.351 | ingranaggio vite s.fine | STROHM 75-105-125 | — | 1 | 672713 |
| 752.354 | ingranaggio elicoidale | STROHM 75-105-125 | — | 2 | 672710 |
| 752.355 | ingranaggio elicoidale | STROHM 205-255 | — | 2 | |
| 752.356 | albero ingran. (37 denti L=10) d. 18 D.39 L=96 app. 3 mandrini | STROHM 205-255 | — | | |
| 752.356B | ghiera d. 18,2 D.32 F. 25x0,75 x albero 752.356 | STROHM 205-255 | — | | |
| 752.357A | ingranaggio (37 denti L=10) d. 23,1 D.39 L=36 app. 3 mandrini | STROHM 205-255 | — | | |
| 752.357B | ingranaggio (37 denti L=21) d. 23,1 D.39 L=36 app. 3 mandrini | STROHM 205-255 | — | | |
| 752.357C | ghiera d. 20,5 F. 30x1 L=6 x ingr. 752.357A-B | STROHM 205-255 | — | | |
| 752.357D | ingranaggio (37 denti) d. 20 D.39 L=15,5 app. 3 mandrini | STROHM 205-255 | — | | |
| 752.357E | distanziale d. 23 D.27,9 L=11 x cusc. x ingr. 752.357A-B | STROHM 205-255 | — | | |
| 752.357F | distanziale d. 23 D.27,9 L=11 x cusc. x ingr. 752.357A-B | STROHM 205-255 | — | | |
| 752.360 | alberino conduttore pompa acqua diam. 17 L=131 | STROHM 75-105-125 | — | 1 | 350FBL |
| 752.361 | albero eccentrico app.f.f. 3 mandrini | STROHM 75-105-125 | — | 1 | 670826 |
| 752.363 | albero comando 3 mandrini | STROHM 125 | — | | 670996 |
| 752.370 | pattino di scorrimento 9x5x15 foro diam. 6 app.f.f. 3 mandrini | STROHM 75-105-125 | — | 2 | 670939 |
| 752.372 | nottolino diam. 12 L=20 | STROHM 75-105-125 | — | 1 | 670089 |
| 752.374 | pastiglia D.15 L=6.5 per vite micrometrica | STROHM 125 NAR | — | | 670030 |
| 752.377A | manicotto frizione D.74 d.35 fil.34x1sin foro 26 spess.39 | STROHM 125 | — | | 680389 |
| 752.377B | cono frizione con scanalato din5482 D.60.5 d.26 fil.25x0.75 f.18 | STROHM 125 | — | | 670927 |
| 752.377C | cono frizione D.60.5 d.44 foro 35 fil.34x1sin spess.20 | STROHM 125 | — | | 670957 |
| 752.377D | ghiera frizione D.36 fil.25x0.75 | STROHM 125 | — | | |
| 752.379 | anelli frizione in bachelite 65x1,5 foro 54 spess.12 | STROHM | — | | |
| 752.380 | perno diam.8MA L=23 per 752.370 app.f.f. 3 mandrini | STROHM 75-105-125 | — | 1 | 670019 |
| 752.381 | perno eccentrici d.8MA L=23 per 752.370 app.f.f. 3 mandrini | STROHM 75-105-125 | — | 1 | 670172 |
| 752.382 | perno diam. 10x1 L=20 apri-chiudi pinza fantina | STROHM 75-105-125 | — | 2 | 670024 |
| 752.390 | leva | STROHM 75-105-125 | — | | 670945 |
| 752.391 | leva | STROHM 75-105-125 | — | | 670809 |
| 752.392 | leva | STROHM 75-105-125 | — | | 670816 |
| 752.401 | spina diam. 8 L=36 | STROHM 75-105-125 | — | | 670808 |
| 752.402 | spina diam. 8 L=61 | STROHM 75-105-125 | — | | 670890 |
| 752.403 | spina diam. 10 L=42 | STROHM 75-105-125 | — | | 670817 |
| 752.404 | spina diam. 10 L=49 | STROHM 75-105-125 | — | | 670825 |
| 752.405 | spina D.13 d. 8 L=42 | STROHM | — | | 670901 |
| 752.451 | perno reg. longit. carro verticale | STROHM 125 | — | | 660050 |

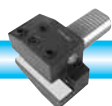
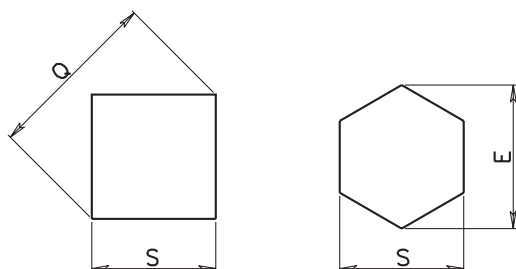




TABELLA VALORI

CONVERSION TABLET



| S | Q | E |
|----|------|------|
| 3 | 4.2 | 3.5 |
| 4 | 5.7 | 4.6 |
| 5 | 7.1 | 5.8 |
| 6 | 8.5 | 6.9 |
| 7 | 9.9 | 8.1 |
| 8 | 11.3 | 9.2 |
| 9 | 12.7 | 10.4 |
| 10 | 14.1 | 11.5 |
| 11 | 15.6 | 12.7 |
| 12 | 17 | 13.8 |
| 13 | 18.4 | 15 |
| 14 | 19.8 | 16.2 |
| 15 | 21.2 | 17.3 |

| S | Q | E |
|----|------|------|
| 16 | 22.6 | 18.5 |
| 17 | 24 | 19.6 |
| 18 | 25.4 | 20.8 |
| 19 | 26.9 | 21.9 |
| 20 | 28.3 | 23.1 |
| 21 | 29.7 | 24.3 |
| 22 | 31.1 | 25.4 |
| 23 | 32.5 | 26.6 |
| 24 | 33.9 | 27.7 |
| 25 | 35.4 | 28.9 |
| 26 | 36.8 | 30.1 |
| 27 | 38.2 | 31.2 |
| 28 | 39.6 | 32.4 |

| S | Q | E |
|----|------|------|
| 29 | 41 | 33.5 |
| 30 | 42.4 | 34.6 |
| 31 | 43.8 | 35.8 |
| 32 | 45.3 | 36.9 |
| 33 | 46.7 | 38.1 |
| 34 | 48.1 | 39.3 |
| 35 | 49.5 | 40.4 |
| 36 | 50.9 | 41.6 |
| 37 | 52.3 | 42.7 |
| 38 | 53.7 | 43.9 |
| 39 | 55.2 | 45 |
| 40 | 56.6 | 46.2 |
| 41 | 58.0 | 47.3 |

| S | Q | E |
|----|------|------|
| 42 | 59.4 | 48.5 |
| 43 | 60.8 | 49.7 |
| 44 | 62.2 | 50.8 |
| 45 | 63.6 | 52 |
| 46 | 65.1 | 53.1 |
| 47 | 66.5 | 54.4 |
| 48 | 67.9 | 55.5 |
| 49 | 69.3 | 56.6 |
| 50 | 70.7 | 57.7 |
| 51 | 72.1 | 59 |
| 52 | 73.5 | 60.1 |
| 53 | 75 | 61.2 |
| 54 | 76.4 | 62.4 |

| S | Q | E |
|----|------|------|
| 55 | 77.8 | 63.5 |
| 56 | 79.2 | 64.7 |
| 57 | 80.6 | 65.1 |
| 58 | 82 | 67 |
| 59 | 83.4 | 68.2 |
| 60 | 84.8 | 69.3 |
| 61 | 86.2 | 70.5 |
| 62 | 87.6 | 71.6 |
| 63 | 89 | 72.8 |
| 64 | 90.5 | 74 |
| 65 | 91.9 | 75 |

CONDIZIONI DI VENDITA

1. Termini di consegna

La maggior parte degli ordini è evasa nello stesso giorno del loro ricevimento.

Le date di consegna si intendono come disponibilità di merce pronta presso il nostro magazzino.

I termini di consegna per gli articoli non disponibili in stock sono puramente indicativi e non vincolanti.

Non ci assumiamo responsabilità per eventuali ritardi causati da motivi di forza maggiore non dipendenti dalla nostra volontà.

2. Resa

I prezzi del nostro listino in euro si intendono per merce resa franco fabbrica.

3. Imballo

L'imballo è compreso nel prezzo, tranne casi particolari.

4. Trasporto

La merce viaggia a rischio e pericolo del Committente e si intende consegnata al momento dell'affidamento allo Spedizioniere da Voi prescelto.

5. Reclami e resi/sostituzioni

Ogni spedizione è accuratamente controllata. Eventuali discordanze dovranno essere comunicate a mezzo lettera entro 8 (otto) giorni dal ricevimento del materiali.

Resi o sostituzioni sono accettati solo se preventivamente autorizzati da CHIA-MO s.r.l.

6. Pagamenti

I pagamenti delle nostre forniture devono essere effettuati nei termini e alle condizioni concordate.

7. Modifiche

Modifiche di ogni tipo o errori di stampa dei nostri cataloghi/listini non danno diritto a reclami.

Le rappresentazioni grafiche non sono impegnative.

SALES CONDITIONS

1. Delivery terms

Whenever possible orders are processed and shipped the same day as they are received.

Our delivery date are expressed like goods ready from our warehouse.

The delivery time for items not in stock are purely approximate and without any liability on our part.

2. Condition of delivery

The price of our eur price list are intended for goods ex-works (ex-our wharehouse).

3. Package

The package is included in the price except particular cases.

4. Transport

Goods travel at buyer's risk and peril and they are intended delivered at the moment of the entrusting to the Forwarder agent that you have selected.

5. Complaints returns/substitutions

Every shipment is controlled carefully. Possible variances should be communicated by letter within 8 days from the goods reception.

Returns or substitutions are accepted only if previously authorized by CHIA-MO s.r.l.

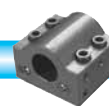
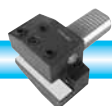
6. Payment terms

The payment of our supplies must be effected at the agreed conditions.

7. Changes

Changes of any kind or printing errors regarding our catalogue and price list do not justify any claims.

All pictures and drawings are without obligation.





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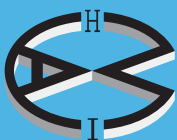
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