



## DOUILLES DE RÉDUCTIONS



# BUSSOLE PORTA BARENO PER TORNI

## BORING BAR HOLDING BUSHES FOR LATHE

Le bussole porta barenò vengono impiegate su macchine da produzioni in particolare su tutte le tipologie di tornio. Vengono impiegate per il bloccaggio di svariati utensili per forare e barenare. Possono essere fornite con grani o asole, con o senza battuta, prolungate o ridotte e con sede cono morse.

### Descrizione e specifiche

Le bussole porta barenò sono costruite con acciaio certificato altamente legato, sono temprate e completamente rettificare. Tutto il ciclo produttivo viene svolto nel nostro stabilimento in Italia con macchine utensili di alta precisione ed è rigorosamente controllato. Grazie all'ampia disponibilità di magazzino possiamo generalmente spedire il materiale il giorno stesso della ricezione dell'ordine.

### Maggiori informazioni

Possono essere forniti con misure metriche e in pollici. Possiamo inoltre eseguire bussole porta barenò speciali su richiesta del cliente.

### Prodotti

Bussole porta barenò per tornio – Bussole porta barenò con grani e battuta – Bussole porta barenò con asole e battuta – Bussole porta barenò senza battuta – Bussole porta barenò prolungate – Bussole porta barenò con sede cono morse – Bussole porta barenò elastiche con tagli – Bussole porta barenò per torni Star.

The boring bar holding bushes are used on production machines and in particular on all types of lathe. They are used for clamping of various tools such as drills and boring bars. They can be supplied with screw or slots, with or without collar, extended or reduced and with morse taper fitting.

### Description and Specifications

The boring bar holding bushes are produced with certified top quality steel, they are hardened and completely grinded. All production cycle is carried out in our factory in Italy with high precision machines and is carefully controlled. Thanks to the availability of stock, we can usually ship the material the same day as order is received.

### Further Information

They can be supplied with metric and inch. We can also produce special boring bar bushes on request.

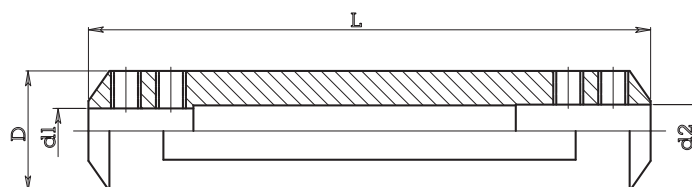
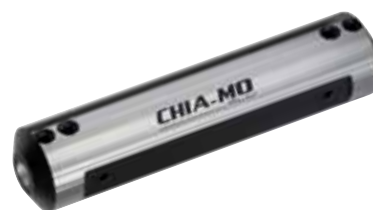
### Products

Boring bar bushes for lathe – Boring bar bushes with screw and collar – Boring bar bushes with slots and collar – Boring bar bushes without collar – Boring bar bushes extended – Boring bar bushes with morse taper fitting – Flexible boring bar bushes with cuts – Star lathe boring bar bushes.



## BUSSOLE P. BARENI DOPPIO FORO CON GRANI

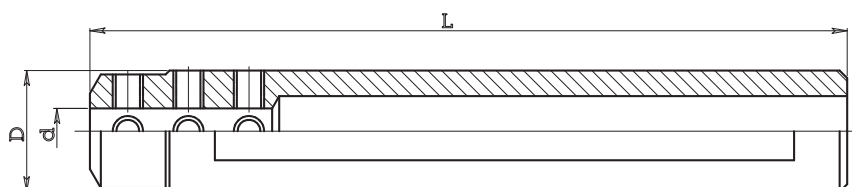
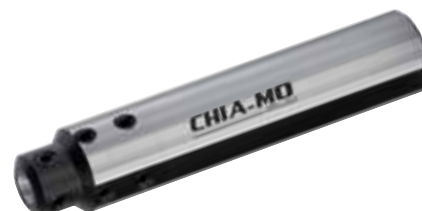
BORING BAR SLEEVES



| Art. / Code  | D  | d1 | d2 | L  |
|--------------|----|----|----|----|
| 241.1245 075 | 12 | 4  | 5  | 75 |
| 241.1645 075 | 16 | 4  | 5  | 75 |
| 241.1667 075 | 16 | 6  | 7  | 75 |
| 241.1668 075 | 16 | 6  | 8  | 75 |
| 241.2045 090 | 20 | 4  | 5  | 90 |
| 241.2067 090 | 20 | 6  | 7  | 90 |
| 241.2068 090 | 20 | 6  | 8  | 90 |

## BUSSOLE P. BARENI CON GRANI

BORING BAR SLEEVES



| Art. / Code  | D  | d | L   |
|--------------|----|---|-----|
| 241.1604 100 | 16 | 4 | 100 |
| 241.1605 100 | 16 | 5 | 100 |
| 241.1606 100 | 16 | 6 | 100 |
| 241.1607 100 | 16 | 7 | 100 |
| 241.2004 100 | 20 | 4 | 100 |
| 241.2005 100 | 20 | 5 | 100 |
| 241.2006 100 | 20 | 6 | 100 |
| 241.2007 100 | 20 | 7 | 100 |
| 241.2008 100 | 20 | 8 | 100 |

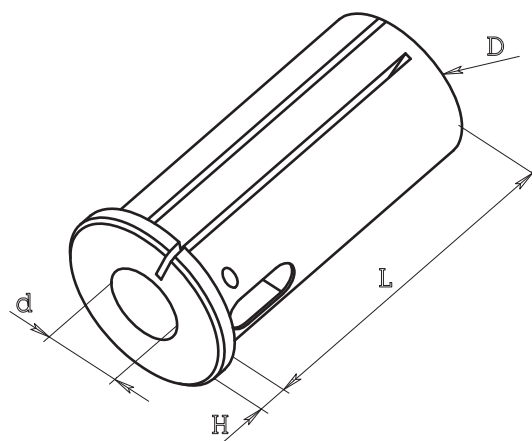
## BUSSOLE P. BARENI TAGLIATE CON BATTUTA Tipo 242

### BORING BAR SLEEVES WITH SPLIT



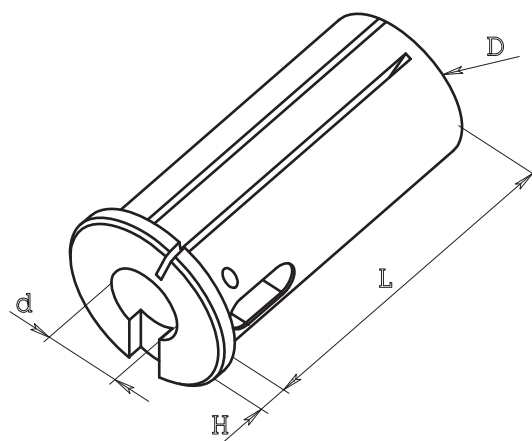
#### BUSSOLE DIAMETRO 32 - DIAMETER 32 BUSHES

| Art. / Code  | D  | d  | H | L  |
|--------------|----|----|---|----|
| 242.3208 060 | 32 | 8  | 4 | 60 |
| 242.3210 060 | 32 | 10 | 4 | 60 |
| 242.3212 060 | 32 | 12 | 4 | 60 |
| 242.3216 060 | 32 | 16 | 4 | 60 |
| 242.3220 060 | 32 | 20 | 4 | 60 |
| 242.3225 060 | 32 | 25 | 4 | 60 |



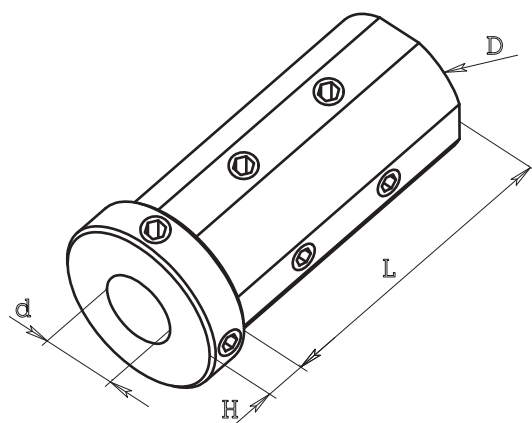
#### BUSSOLE DIAMETRO 40 - DIAMETER 40 BUSHES

| Art. / Code  | D  | d  | H | L  | Art. / Code CMZ |
|--------------|----|----|---|----|-----------------|
| 242.4008 075 | 40 | 8  | 4 | 75 | /               |
| 242.4010 075 | 40 | 10 | 4 | 75 | /               |
| 242.4012 075 | 40 | 12 | 4 | 75 | /               |
| 242.4016 075 | 40 | 16 | 4 | 80 | TD/10300/16     |
| 242.4020 075 | 40 | 20 | 4 | 85 | TD/10300/20     |
| 242.4025 075 | 40 | 25 | 4 | 85 | TD/10300/25     |
| 242.4032 075 | 40 | 32 | 4 | 85 | TD/10300/32     |



## 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 030 | 19,05 | 6  | 5 | 30 |
| 243.1908 030 | 19,05 | 8  | 5 | 30 |
| 243.1910 030 | 19,05 | 10 | 5 | 30 |
| 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 030 | 20 | 6  | 5 | 30 |
| 243.2008 030 | 20 | 8  | 5 | 30 |
| 243.2010 030 | 20 | 10 | 5 | 30 |
| 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 035 | 25 | 6  | 6 | 35 |
| 243.2508 035 | 25 | 8  | 6 | 35 |
| 243.2510 035 | 25 | 10 | 6 | 35 |
| 243.2512 035 | 25 | 12 | 6 | 35 |
| 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 035 | 25,4 | 6  | 6 | 35 |
| 243.2608 035 | 25,4 | 8  | 6 | 35 |
| 243.2610 035 | 25,4 | 10 | 6 | 35 |
| 243.2612 035 | 25,4 | 12 | 6 | 35 |
| 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  |
|--------------|----|----|----|----|
| 243.5008 085 | 50 | 8  | 12 | 85 |
| 243.5010 085 | 50 | 10 | 12 | 85 |
| 243.5012 085 | 50 | 12 | 12 | 85 |
| 243.5014 085 | 50 | 14 | 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 19,05 - DIAMETER 19,05 BUSHES

| Art. / Code  | D     | d  | H | L  | A    |
|--------------|-------|----|---|----|------|
| 244.1908 050 | 19,05 | 8  | 8 | 50 | 10,5 |
| 244.1910 050 | 19,05 | 10 | 8 | 50 | 10,5 |
| 244.1912 050 | 19,05 | 12 | 8 | 50 | 10,5 |
| 244.1916 050 | 19,05 | 16 | 8 | 50 | 10,5 |

#### BUSSOLE DIAMETRO 20 - DIAMETER 20 BUSHES

| Art. / Code  | D  | d  | H | L  | A    |
|--------------|----|----|---|----|------|
| 244.2008 050 | 20 | 8  | 8 | 50 | 10,5 |
| 244.2010 050 | 20 | 10 | 8 | 50 | 10,5 |
| 244.2012 050 | 20 | 12 | 8 | 50 | 10,5 |
| 244.2016 050 | 20 | 16 | 8 | 50 | 10,5 |

#### BUSSOLE DIAMETRO 22 - DIAMETER 22 BUSHES

| Art. / Code  | D  | d  | H | L  | A  |
|--------------|----|----|---|----|----|
| 244.2212 054 | 22 | 12 | 8 | 54 | 11 |
| 244.2214 054 | 22 | 14 | 8 | 54 | 11 |
| 244.2216 054 | 22 | 16 | 8 | 51 | 11 |

#### BUSSOLE DIAMETRO 25 - DIAMETER 25 BUSHES

| Art. / Code  | D  | d  | H  | L  | A  |
|--------------|----|----|----|----|----|
| 244.2514 055 | 25 | 14 | 12 | 55 | 13 |
| 244.2516 055 | 25 | 16 | 12 | 55 | 13 |
| 244.2520 055 | 25 | 20 | 12 | 55 | 13 |

#### BUSSOLE DIAMETRO 25,40 - DIAMETER 25,40 BUSHES

| Art. / Code  | D    | d     | H  | L  | A  |
|--------------|------|-------|----|----|----|
| 244.2614 055 | 25,4 | 14    | 12 | 55 | 13 |
| 244.2616 055 | 25,4 | 16    | 12 | 55 | 13 |
| 244.2619 055 | 25,4 | 19,05 | 12 | 55 | 13 |
| 244.2620 055 | 25,4 | 20    | 12 | 55 | 13 |

#### BUSSOLE DIAMETRO 31,75 - DIAMETER 31,75 BUSHES

| Art. / Code  | D     | d  | H  | L  | A  |
|--------------|-------|----|----|----|----|
| 244.3120 065 | 31,75 | 20 | 12 | 65 | 13 |
| 244.3125 065 | 31,75 | 25 | 12 | 65 | 13 |

#### BUSSOLE DIAMETRO 32 - DIAMETER 32 BUSHES

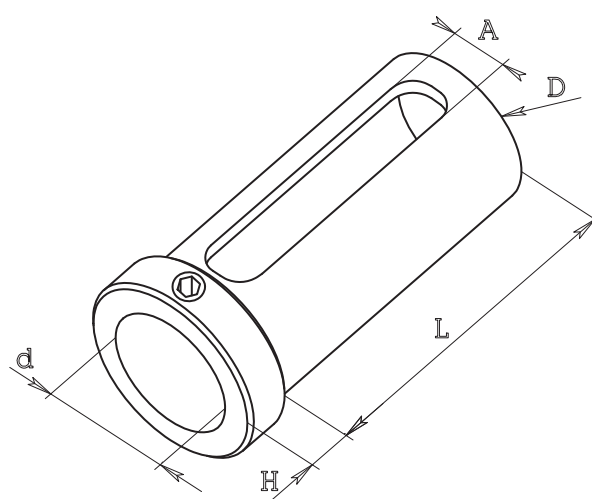
| Art. / Code  | D  | d  | H  | L  | A  |
|--------------|----|----|----|----|----|
| 244.3225 040 | 32 | 25 | 10 | 40 | 13 |
| 244.3220 065 | 32 | 20 | 12 | 65 | 13 |
| 244.3225 065 | 32 | 25 | 12 | 65 | 13 |

#### BUSSOLE DIAMETRO 33 - DIAMETER 33 BUSHES

| Art. / Code  | D  | d  | H  | L  | A    |
|--------------|----|----|----|----|------|
| 244.3308 055 | 33 | 8  | 12 | 55 | 12,5 |
| 244.3310 055 | 33 | 10 | 12 | 55 | 12,5 |
| 244.3316 055 | 33 | 16 | 12 | 55 | 12,5 |
| 244.3320 055 | 33 | 20 | 12 | 55 | 12,5 |
| 244.3325 055 | 33 | 25 | 12 | 55 | 12,5 |

#### BUSSOLE DIAMETRO 40 - DIAMETER 40 BUSHES

| Art. / Code  | D  | d  | H  | L  | A  |
|--------------|----|----|----|----|----|
| 244.4012 080 | 40 | 12 | 12 | 80 | 14 |
| 244.4016 080 | 40 | 16 | 12 | 80 | 14 |
| 244.4020 080 | 40 | 20 | 12 | 80 | 14 |
| 244.4025 080 | 40 | 25 | 12 | 80 | 14 |
| 244.4032 089 | 40 | 32 | 12 | 89 | 14 |



#### BUSSOLE DIAMETRO 50 - DIAMETER 50 BUSHES

| Art. / Code  | D  | d  | H  | L  | A  |
|--------------|----|----|----|----|----|
| 244.5020 085 | 50 | 20 | 12 | 85 | 14 |
| 244.5025 085 | 50 | 25 | 12 | 85 | 14 |
| 244.5032 085 | 50 | 32 | 12 | 85 | 14 |
| 244.5040 088 | 50 | 40 | 12 | 85 | 14 |

#### BUSSOLE DIAMETRO 60 - DIAMETER 60 BUSHES

| Art. / Code  | D  | d  | H  | L   | A  |
|--------------|----|----|----|-----|----|
| 244.6020 125 | 60 | 20 | 12 | 125 | 14 |
| 244.6025 125 | 60 | 25 | 12 | 125 | 14 |
| 244.6032 125 | 60 | 32 | 12 | 125 | 14 |
| 244.6040 125 | 60 | 40 | 12 | 125 | 14 |
| 244.6050 125 | 60 | 50 | 12 | 125 | 14 |

## BUSSOLE P. BARENI CON ASOLA E BATTUTA Tipo 245

### BORING BAR SLEEVES

#### BUSSOLE DIAMETRO 16 - DIAMETER 16 BUSHES

| Art. / Code  | D  | d  | H | L  | A   |
|--------------|----|----|---|----|-----|
| 245.1606 036 | 16 | 6  | 4 | 36 | 8.5 |
| 245.1608 036 | 16 | 8  | 4 | 36 | 8.5 |
| 245.1610 036 | 16 | 10 | 4 | 36 | 8.5 |
| 245.1612 036 | 16 | 12 | 4 | 36 | 8.5 |

#### BUSSOLE DIAMETRO 19,05 - DIAMETER 19,05 BUSHES

| Art. / Code  | D     | d  | H | L  | A    |
|--------------|-------|----|---|----|------|
| 245.1912 050 | 19,05 | 12 | 5 | 50 | 10.5 |
| 245.1914 050 | 19,05 | 14 | 5 | 50 | 10.5 |
| 245.1916 050 | 19,05 | 16 | 5 | 50 | 10.5 |

#### BUSSOLE DIAMETRO 20 - DIAMETER 20 BUSHES

| Art. / Code  | D  | d  | H | L  | A    |
|--------------|----|----|---|----|------|
| 245.2006 030 | 20 | 6  | 4 | 30 | 10.5 |
| 245.2008 030 | 20 | 8  | 4 | 30 | 10.5 |
| 245.2010 030 | 20 | 10 | 4 | 30 | 10.5 |
| 245.2012 030 | 20 | 12 | 4 | 30 | 10.5 |
| 245.2014 030 | 20 | 14 | 4 | 30 | 10.5 |
| 245.2016 030 | 20 | 16 | 4 | 30 | 10.5 |

|              |    |    |   |    |      |
|--------------|----|----|---|----|------|
| 245.2006 040 | 20 | 6  | 4 | 40 | 10.5 |
| 245.2008 040 | 20 | 8  | 4 | 40 | 10.5 |
| 245.2010 040 | 20 | 10 | 4 | 40 | 10.5 |
| 245.2012 040 | 20 | 12 | 4 | 40 | 10.5 |
| 245.2016 040 | 20 | 16 | 4 | 40 | 10.5 |

|              |    |    |   |    |      |
|--------------|----|----|---|----|------|
| 245.2010 050 | 20 | 10 | 5 | 50 | 10.5 |
| 245.2012 050 | 20 | 12 | 5 | 50 | 10.5 |
| 245.2014 050 | 20 | 14 | 5 | 50 | 10.5 |
| 245.2016 050 | 20 | 16 | 5 | 50 | 10.5 |

#### BUSSOLE DIAMETRO 22 - DIAMETER 22 BUSHES

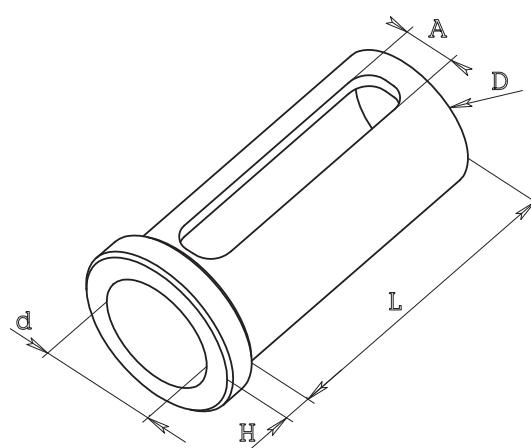
| Art. / Code  | D  | d  | H | L  | A    |
|--------------|----|----|---|----|------|
| 245.2208 046 | 22 | 8  | 5 | 46 | 10.5 |
| 245.2210 046 | 22 | 10 | 5 | 46 | 10.5 |
| 245.2212 046 | 22 | 12 | 5 | 46 | 10.5 |
| 245.2216 046 | 22 | 16 | 5 | 46 | 10.5 |
| 245.2220 046 | 22 | 20 | 5 | 46 | 10.5 |

#### BUSSOLE DIAMETRO 25 - DIAMETER 25 BUSHES

| Art. / Code  | D  | d  | H | L  | A    |
|--------------|----|----|---|----|------|
| 245.2506 050 | 25 | 6  | 6 | 50 | 12.5 |
| 245.2508 050 | 25 | 8  | 6 | 50 | 12.5 |
| 245.2510 050 | 25 | 10 | 6 | 50 | 12.5 |
| 245.2512 050 | 25 | 12 | 6 | 50 | 12.5 |
| 245.2514 050 | 25 | 14 | 6 | 50 | 12.5 |
| 245.2516 050 | 25 | 16 | 6 | 50 | 12.5 |
| 245.2518 050 | 25 | 18 | 6 | 50 | 12.5 |
| 245.2520 050 | 25 | 20 | 6 | 50 | 12.5 |

#### BUSSOLE DIAMETRO 25,4 - DIAMETER 25,4 BUSHES

| Art. / Code  | D    | d  | H | L  | A    |
|--------------|------|----|---|----|------|
| 245.2608 050 | 25.4 | 8  | 6 | 50 | 12.5 |
| 245.2610 050 | 25.4 | 10 | 6 | 50 | 12.5 |
| 245.2612 050 | 25.4 | 12 | 6 | 50 | 12.5 |
| 245.2616 050 | 25.4 | 16 | 6 | 50 | 12.5 |
| 245.2620 050 | 25.4 | 20 | 6 | 50 | 12.5 |



#### BUSSOLE DIAMETRO 31,75 - DIAMETER 31,75 BUSHES

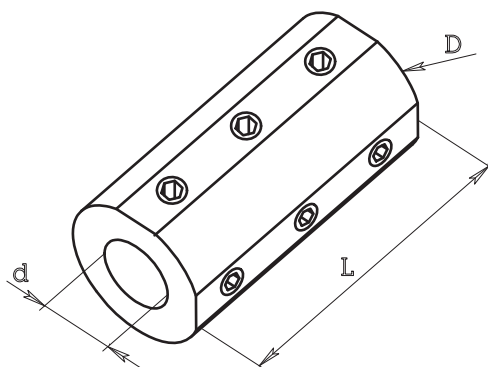
| Art. / Code  | D     | d    | H | L  | A    |
|--------------|-------|------|---|----|------|
| 245.3108 062 | 31,75 | 8    | 6 | 62 | 12.5 |
| 245.3110 062 | 31,75 | 10   | 6 | 62 | 12.5 |
| 245.3112 062 | 31,75 | 12   | 6 | 62 | 12.5 |
| 245.3114 062 | 31,75 | 14   | 6 | 62 | 12.5 |
| 245.3116 062 | 31,75 | 16   | 6 | 62 | 12.5 |
| 245.3118 062 | 31,75 | 18   | 6 | 62 | 12.5 |
| 245.3120 062 | 31,75 | 20   | 6 | 62 | 12.5 |
| 245.3125 062 | 31,75 | 25   | 6 | 62 | 12.5 |
| 245.3126 062 | 31,75 | 25,4 | 6 | 62 | 12.5 |

#### BUSSOLE DIAMETRO 32 - DIAMETER 32 BUSHES

| Art. / Code  | D  | d    | H | L  | A    |
|--------------|----|------|---|----|------|
| 245.3208 062 | 32 | 8    | 6 | 62 | 12.5 |
| 245.3210 062 | 32 | 10   | 6 | 62 | 12.5 |
| 245.3212 062 | 32 | 12   | 6 | 62 | 12.5 |
| 245.3214 062 | 32 | 14   | 6 | 62 | 12.5 |
| 245.3216 062 | 32 | 16   | 6 | 62 | 12.5 |
| 245.3218 062 | 32 | 18   | 6 | 62 | 12.5 |
| 245.3220 062 | 32 | 20   | 6 | 62 | 12.5 |
| 245.3225 040 | 32 | 25   | 7 | 40 | 12.5 |
| 245.3225 062 | 32 | 25   | 6 | 62 | 12.5 |
| 245.3226 062 | 32 | 25,4 | 6 | 62 | 12.5 |

## BUSSOLE P. BARENI CON GRANI SENZA BATTUTA Tipo 246

BORING BAR SLEEVES



### BUSSOLE DIAMETRO 20 - DIAMETER 20 BUSHES

| Art. / Code  | D  | d  | L  |
|--------------|----|----|----|
| 246.2006 050 | 20 | 6  | 50 |
| 246.2008 050 | 20 | 8  | 50 |
| 246.2010 050 | 20 | 10 | 50 |
| 246.2012 050 | 20 | 12 | 50 |

### BUSSOLE DIAMETRO 22 - DIAMETER 22 BUSHES

| Art. / Code  | D  | d  | L  |
|--------------|----|----|----|
| 246.2208 050 | 22 | 8  | 50 |
| 246.2210 050 | 22 | 10 | 50 |
| 246.2212 050 | 22 | 12 | 50 |

### 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 25,4 - DIAMETER 25,4 BUSHES

| Art. / Code  | D  | d  | L  |
|--------------|----|----|----|
| 246.2608 050 | 20 | 8  | 50 |
| 246.2610 050 | 20 | 10 | 50 |
| 246.2612 050 | 20 | 12 | 50 |
| 246.2616 050 | 20 | 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 |
| 246.4014 080 | 40 | 14 | 80 |
| 246.4016 080 | 40 | 16 | 80 |

## BUSSOLE P. BARENI CON ASOLA SENZA BATTUTA Tipo 247

### BORING BAR SLEEVES



#### BUSSOLE DIAMETRO 16 - DIAMETER 16 BUSHES

| Art. / Code  | D  | d  | L  | A   |
|--------------|----|----|----|-----|
| 247.1606 030 | 16 | 6  | 30 | 6.5 |
| 247.1608 030 | 16 | 8  | 30 | 6.5 |
| 247.1610 030 | 16 | 10 | 30 | 6.5 |
| 247.1612 030 | 16 | 12 | 30 | 6.5 |

#### BUSSOLE DIAMETRO 19,05 - DIAMETER 19,05 BUSHES

| Art. / Code  | D     | d  | L  | A    |
|--------------|-------|----|----|------|
| 247.1908 040 | 19.05 | 8  | 40 | 12.5 |
| 247.1910 040 | 19.05 | 10 | 40 | 12.5 |
| 247.1912 040 | 19.05 | 12 | 40 | 12.5 |
| 247.1914 040 | 19.05 | 14 | 40 | 12.5 |
| 247.1916 040 | 19.05 | 16 | 40 | 12.5 |

#### BUSSOLE DIAMETRO 20 - DIAMETER 20 BUSHES

| Art. / Code  | D  | d  | L  | A    |
|--------------|----|----|----|------|
| 247.2008 040 | 20 | 8  | 40 | 12.5 |
| 247.2010 040 | 20 | 10 | 40 | 12.5 |
| 247.2012 040 | 20 | 12 | 40 | 12.5 |
| 247.2014 040 | 20 | 14 | 40 | 12.5 |
| 247.2016 040 | 20 | 16 | 40 | 12.5 |

#### BUSSOLE DIAMETRO 22 - DIAMETER 22 BUSHES

| Art. / Code  | D  | d  | L  | A    |
|--------------|----|----|----|------|
| 247.2212 050 | 22 | 12 | 50 | 12.5 |
| 247.2216 050 | 22 | 16 | 50 | 12.5 |
| 247.2220 050 | 22 | 20 | 50 | 12.5 |

#### BUSSOLE DIAMETRO 25 - DIAMETER 25 BUSHES

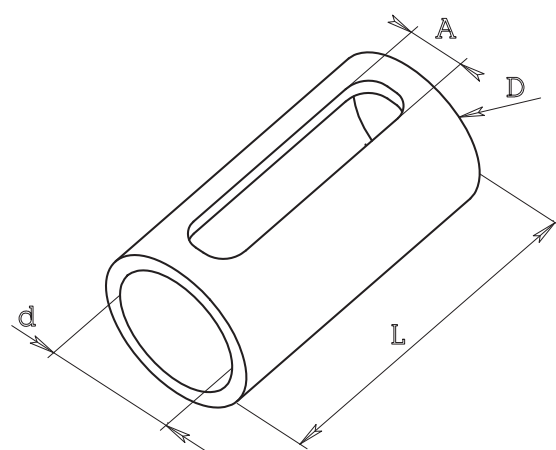
| Art. / Code  | D  | d  | L  | A    |
|--------------|----|----|----|------|
| 247.2508 050 | 25 | 8  | 50 | 12.5 |
| 247.2510 050 | 25 | 10 | 50 | 12.5 |
| 247.2512 050 | 25 | 12 | 50 | 12.5 |
| 247.2514 050 | 25 | 14 | 50 | 12.5 |
| 247.2516 050 | 25 | 16 | 50 | 12.5 |
| 247.2518 050 | 25 | 18 | 50 | 12.5 |
| 247.2520 050 | 25 | 20 | 50 | 12.5 |

#### BUSSOLE DIAMETRO 25,4 - DIAMETER 25,4 BUSHES

| Art. / Code  | D    | d  | L  | A    |
|--------------|------|----|----|------|
| 247.2608 040 | 25,4 | 8  | 50 | 12.5 |
| 247.2610 040 | 25,4 | 10 | 50 | 12.5 |
| 247.2612 040 | 25,4 | 12 | 50 | 12.5 |
| 247.2616 040 | 25,4 | 16 | 50 | 12.5 |
| 247.2620 040 | 25,4 | 20 | 50 | 12.5 |

#### BUSSOLE DIAMETRO 31,75 - DIAMETER 31,75 BUSHES

| Art. / Code  | D     | d  | L  | A    |
|--------------|-------|----|----|------|
| 247.3108 060 | 31,75 | 8  | 60 | 12.5 |
| 247.3110 060 | 31,75 | 10 | 60 | 12.5 |
| 247.3112 060 | 31,75 | 12 | 60 | 12.5 |
| 247.3114 060 | 31,75 | 14 | 60 | 12.5 |
| 247.3116 060 | 31,75 | 16 | 60 | 12.5 |
| 247.3120 060 | 31,75 | 20 | 60 | 12.5 |
| 247.3125 060 | 31,75 | 25 | 60 | 12.5 |



#### BUSSOLE DIAMETRO 32 - DIAMETER 32 BUSHES

| Art. / Code  | D  | d  | L  | A    |
|--------------|----|----|----|------|
| 247.3208 060 | 32 | 8  | 60 | 12.5 |
| 247.3210 060 | 32 | 10 | 60 | 12.5 |
| 247.3212 060 | 32 | 12 | 60 | 12.5 |
| 247.3214 060 | 32 | 14 | 60 | 12.5 |
| 247.3216 060 | 32 | 16 | 60 | 12.5 |
| 247.3220 060 | 32 | 20 | 60 | 12.5 |
| 247.3225 060 | 32 | 25 | 60 | 12.5 |

#### BUSSOLE DIAMETRO 40 - DIAMETER 40 BUSHES

| Art. / Code  | D  | d  | L  | A  |
|--------------|----|----|----|----|
| 247.4020 080 | 40 | 20 | 80 | 14 |
| 247.4025 080 | 40 | 25 | 80 | 14 |
| 247.4032 080 | 40 | 32 | 80 | 14 |

## BUSSOLE CORTE CON FORO Tipo 248

### BORING BAR SLEEVES

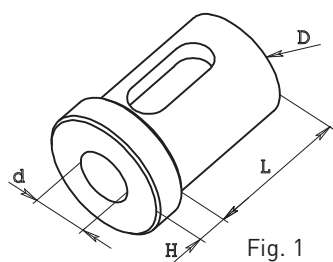


Fig. 1

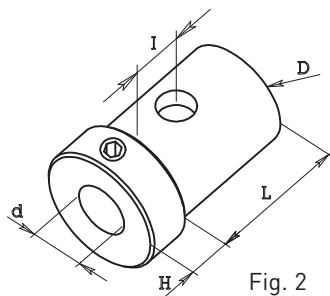


Fig. 2



| Art. / Code  | 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    |

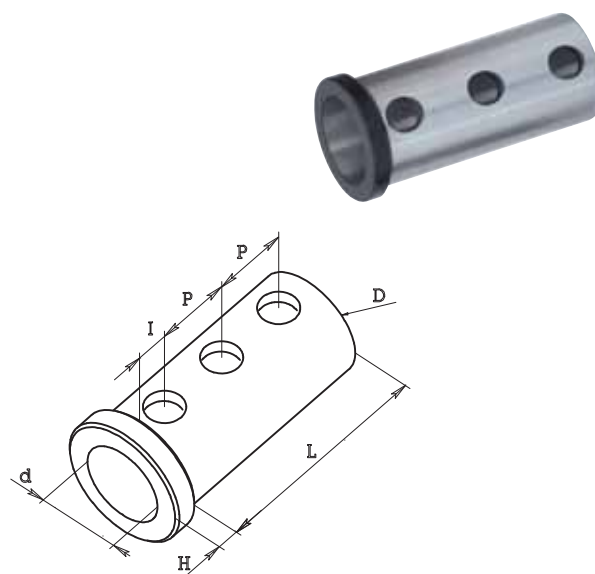
| Art. / Code  | D  | d  | H  | L  | I  | Fig. |
|--------------|----|----|----|----|----|------|
| 248.5016 050 | 50 | 16 | 12 | 50 | 25 | 2    |
| 248.5020 050 | 50 | 20 | 12 | 50 | 25 | 2    |
| 248.5025 050 | 50 | 25 | 12 | 50 | 25 | 2    |
| 248.5032 050 | 50 | 32 | 12 | 50 | 25 | 2    |
| 248.5040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

## BUSSOLE PORTA BARENI CON FORI Tipo 248

### BORING BAR SLEEVES

| Art. / Code  | D  | d  | L  | H | I  | P  |
|--------------|----|----|----|---|----|----|
| 248.3208 088 | 32 | 8  | 88 | 7 | 10 | 34 |
| 248.3210 088 | 32 | 10 | 88 | 7 | 10 | 34 |
| 248.3212 088 | 32 | 12 | 88 | 7 | 10 | 34 |
| 248.3216 088 | 32 | 16 | 88 | 7 | 10 | 34 |
| 248.3220 088 | 32 | 20 | 88 | 7 | 10 | 34 |
| 248.3225 088 | 32 | 25 | 88 | 7 | 10 | 34 |

| Art. / Code  | 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 |



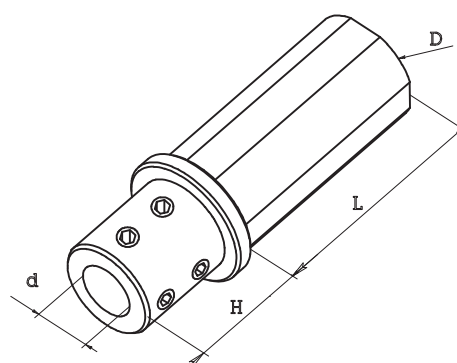
## BUSSOLE PORTA BARENI PROLUNGATE Tipo 249

### BORING BAR SLEEVES

| Art. / Code  | 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 |

| Art. / Code  | 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 |

| Art. / Code  | D  | d  | L  | H  |
|--------------|----|----|----|----|
| 249.5020 089 | 50 | 20 | 89 | 40 |
| 249.5025 089 | 50 | 25 | 89 | 40 |



## BUSSOLE PORTA BARENI Tipo 248

### BORING BAR SLEEVES

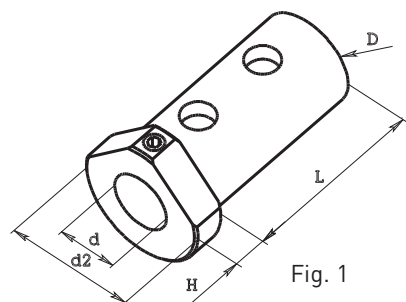


Fig. 1

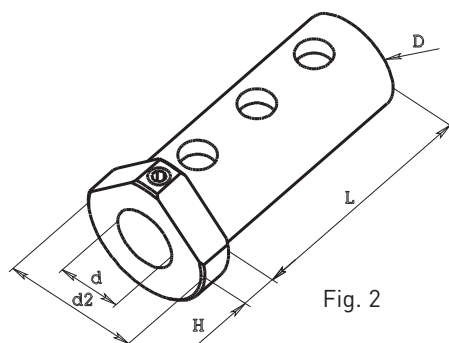


Fig. 2



PER MACCHINA / FOR MACHINE : MURATA MW 12 G

| Art. / Code  | D  | d  | d2   | H  | L  | Diametro fori /<br>Hole diameter | Interasse fori /<br>Distance between holes | Fig. |
|--------------|----|----|------|----|----|----------------------------------|--------------------------------------------|------|
| 248.4008 080 | 40 | 8  | 54.6 | 15 | 80 | 15                               | 50                                         | 1    |
| 248.4010 080 | 40 | 10 | 54.6 | 15 | 80 | 15                               | 50                                         | 1    |
| 248.4012 080 | 40 | 12 | 54.6 | 15 | 80 | 15                               | 50                                         | 1    |
| 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    |

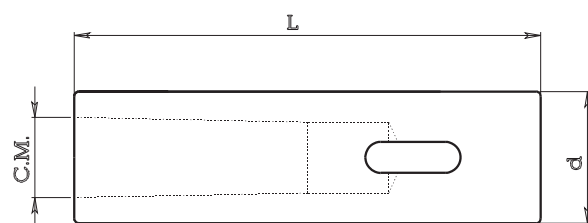
PER MACCHINA / FOR MACHINE : MURATA MW 20 G

| Art. / Code  | D  | d  | d2   | H  | L   | Diametro fori /<br>Hole diameter | Interasse fori /<br>Distance between holes | Fig. |
|--------------|----|----|------|----|-----|----------------------------------|--------------------------------------------|------|
| 248.4006 105 | 40 | 6  | 54.6 | 15 | 105 | 16                               | 37.5                                       | 2    |
| 248.4008 105 | 40 | 8  | 54.6 | 15 | 105 | 16                               | 37.5                                       | 2    |
| 248.4010 105 | 40 | 10 | 54.6 | 15 | 105 | 16                               | 37.5                                       | 2    |
| 248.4012 105 | 40 | 12 | 54.6 | 15 | 105 | 16                               | 37.5                                       | 2    |
| 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



| Art. / Code | d     | H | L   | Cono morse /<br>MT |
|-------------|-------|---|-----|--------------------|
| 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 |

| Art. / Code | d     | H | L   | Cono morse /<br>MT |
|-------------|-------|---|-----|--------------------|
| 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



| Art. / Code | 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 | 24.40 | 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. / Code | 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 |
|----------|----|---|----|----|---|

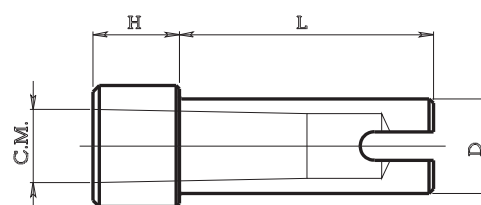


Fig. 1

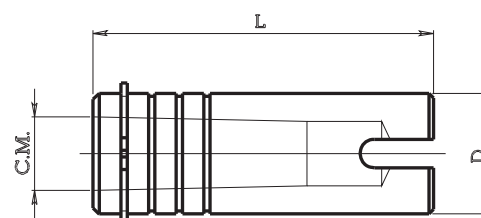


Fig. 2

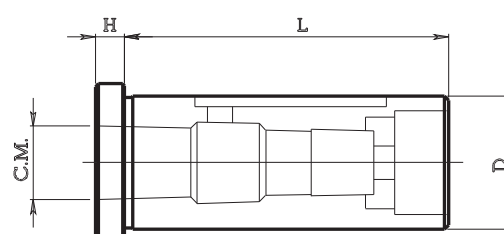
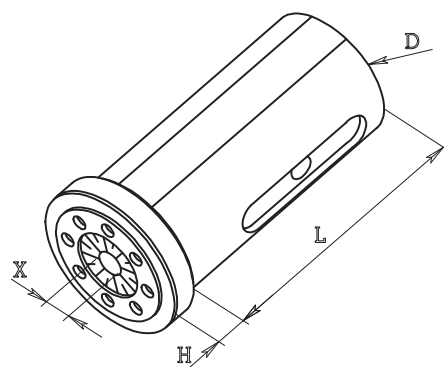


Fig. 3

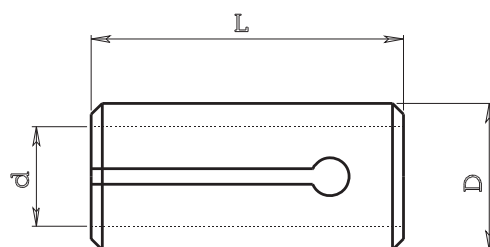
## BUSOLE PORTA PINZA CON GHIERA INTERNA ER DIN 6499 COLLET BUSH HOLDERS



| Art. / Code | D  | H | L  | X        | Pinza / Collet | Art. pinza / Collet code | Art. ghiera / Nut code | Art. chiave / Spanner code |
|-------------|----|---|----|----------|----------------|--------------------------|------------------------|----------------------------|
| 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)



| Art. / Code | 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 |

| Art. / Code | d     | D     | L  |
|-------------|-------|-------|----|
| 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

| Art. / Code | 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

