CHIA-MO

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50 YEARS

# PINZE E GHIERE ERC DIN 6499

## COLLETS AND NUTS ERC DIN 6499

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Le pinze e le ghiere ERC DIN 6499 vengono utilizzate su un'ampia gamma di macchine da produzione per il bloccaggio degli utensili. La concentricità di serraggio è disponibili con precisione standard o ad alta precisione. Possono essere fornite anche con quadro interno per stringere i maschi e a tenuta per la refrigerazione interna. Chia-mo produce inoltre ghiere ERC DIN 6499 standard, mini, esagonali, con tacche e senza tacche. Ghiere con filetto esterno con fori o con esagono e ghiere con tenuta del refrigerante.

### Descrizione e specifiche
Le pinze e le ghiere ERC DIN 6499 sono costruite con acciaio certificato altamente legato e sono temprate e rettificate. 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
Chia-mo produce una serie speciale di pinze ERC a sezione ridotta per poter montare sui vari tipi di pinza diametri più grandi rispetto a quelli standard normalmente reperibili in commercio. Possiamo inoltre eseguire pinze con misura decimale e possiamo inoltre produrre pinze e ghiere speciali su richiesta del cliente.

### Prodotti
Pinze ER DIN 6499 – Pinze ER portamaschio con quadro interno – Pinze ER porta maschio con estrazione – Pinze ER per alesatura – Pinze ER con tenuta per refrigerazione interna – Ghiere di serraggio per pinze ER – Ghiere ER con tenuta per refrigerazione interna – Chiavi per ghiere ER.

Collets and nuts ERC DIN 6499 are used on a broad range of production machines for tool clamping. The concentricity clamping is available with standard or high-precision accuracy. They can also be supplied with the internal square to tighten the males and sealed for internal coolant. Chia-mo also produces nuts ERC DIN 6499 standard, mini, hexagonal. Nuts with external thread with holes or with hexagon and sealed nuts for the internal coolant.

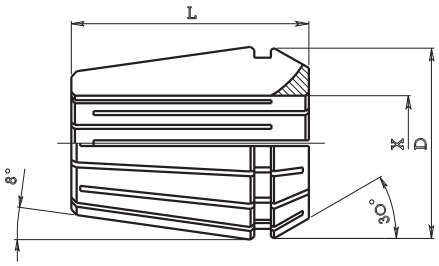
### Description and Specifications
Collets and nuts ERC DIN 6499 are produced with certified top quality steel and they are hardened and grinded. All production cycle is carried out in our factory in Italy with high precision machines and is carefully controlled. Thanks to the availability of stock, we can usually ship the material the same day as order is received.

### Further Information
Chia-mo produces a special series of ERC collets with reduced section in order to fit on various types of collet diameters larger than standard commercially available. We can also perform collets with decimal measure and we can also produce special collets and nuts on customer request.

### Products
ER Collets DIN 6499 – ER Tapping collets with internal square – ER Tapping collet with extension – ER Reamer collets – ER Sealed collets for coolant through tools – Clamping nuts for ER collets – Sealed nuts for coolant through tools – Wrenchs for clamping nuts.

# PINZE ERC AUTOESTRAIBILI Tipo 050 DIN 6499 B

## ERC COLLETS



## PINZE STANDARD (STANDARD COLLETS)

| Art. / Code | Tipo / Type | D | L | Alesaggio / Bore | | Capacità serraggio / Gripping range | Pinze per serie / Collets for range |
|---|---|---|---|---|---|---|---|
| | | | | X min | X max | | |
| 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 |
| 050.016 | 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 |
| 050.040* | ERC 40 | 41 | 36 | 31.0 | 32.0 | 1.0 | 2 |
| 050.050 | ERC 50 | 52 | 60 | 6.0 | 34.0 | 1.0 | 29 |

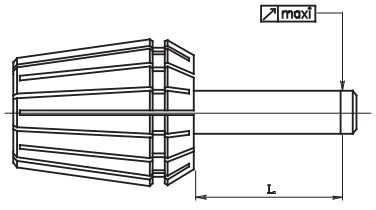
* **Speciali** (Special)

## PINZE ALTA PRECISIONE (HIGH PRECISION COLLETS)

| Art. / Code | Tipo / Type | D | L | Alesaggio / Bore | | Capacità serraggio / Gripping range | Pinze per serie / Collets for range |
|---|---|---|---|---|---|---|---|
| | | | | X min | X max | | |
| 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 / Bore D | | 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.)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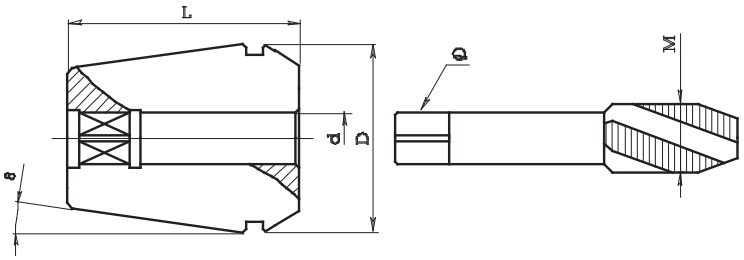
## PINZE ERC PORTAMASCHI CON QUADRO
### TAPPING COLLETS WITH INTERNAL SQUARE



**Tipo (type) ERC 16 D=21 L=31**

| Art. / Code | d | Quadro Q / Square Q | 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 Q | 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 Q | 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 Q | 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**

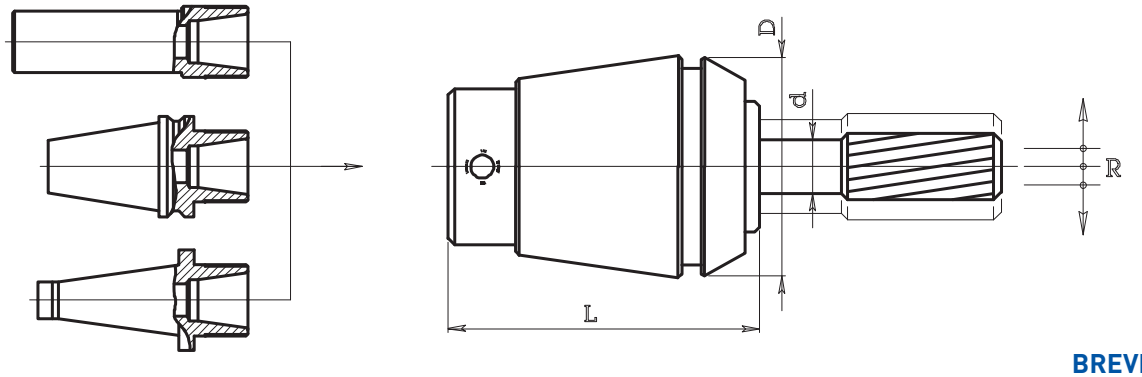
| Art. / Code | d | Quadro Q / Square Q | M |
|---|---|---|---|
| 050.040M D0600 | 6 | 4.9 | M5-6-8 |
| 050.040M D0700 | 7 | 5.5 | M10 |
| 050.040M D0800 | 8 | 6.2 | M8 |
| 050.040M D0900 | 9 | 7 | M12 |
| 050.040M D1000 | 10 | 8 | M10 |
| 050.040M D1100 | 11 | 9 | M14 |
| 050.040M D1200 | 12 | 9 | M16 |
| 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 Q | 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 |

4

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

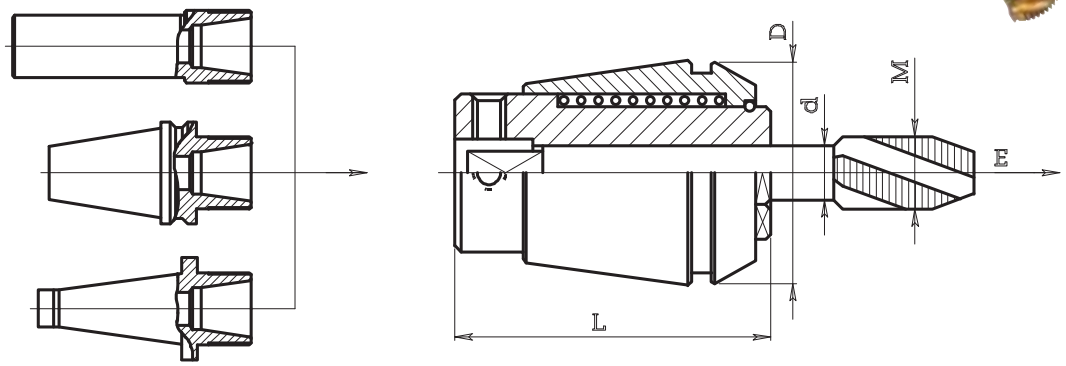



**BREVETTATA**
**(PATENTED)**

| Art. / Code | Sede / Seat | D | L | Alesaggio d (*) / Bore 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 |

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

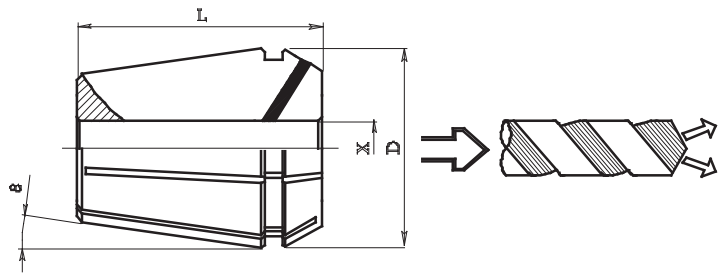
## PINZE PORTAMASCHI CON ESTRAZIONE Tipo ZM 050 DIN 6499 B
### TAP COLLETS WITH EXTENSION




| Art. / Code | Sede / Seat | D | L | Capacità masciatura M / Tap capacity M | Alesaggio d / Bore 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 |

E = **Corsa di estrazione** (Extension stroke)

## PINZE ERC CON TENUTA PER REFRIGERAZIONE INTERNA DIN 6499
### SEALED COLLETS FOR COOLANT THROUGH TOOLS



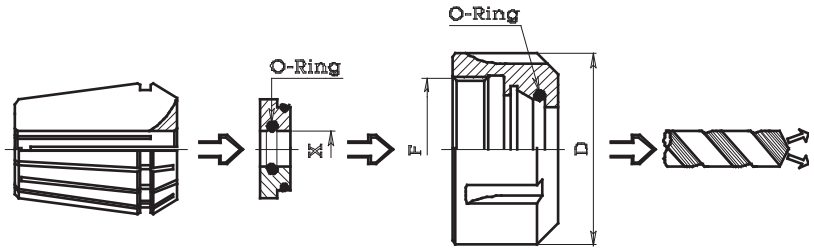

**MAX: 25 bar**

**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.

| Art. / Code | Tipo / Type | D | L | Bore min - max (*) | | Progressione / Progression | Pinza per serie / Collet for range |
|---|---|---|---|---|---|---|---|
| | | | | X min (*) | X max (*) | | |
| **050.011R** | ERC 11 | 11.5 | 18 | 3 | 7 | 1 | 9 |
| **050.016R** | ERC 16 | 17 | 27 | 3 | 10 | 1 | 15 |
| **050.020R** | ERC 20 | 21 | 31 | 3 | 13 | 1 | 21 |
| **050.025R** | ERC 25 | 26 | 35 | 3,5 | 16 | 1 | 27 |
| **050.032R** | ERC 32 | 33 | 40 | 4 | 20 | 1 | 35 |
| **050.040R** | ERC 40 | 41 | 46 | 4 | 26 | 1 | 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




**Disco di tenuta**
(Sealing Disc)

| Art. ghiera / Nut code | Tipo / Type | D | F / Thread | Art. Chiave / Wrench code | Art. Disco di tenuta / Sealing disc code | Bore min - max (*) | | Progressione / Progression |
|---|---|---|---|---|---|---|---|---|
| | | | | | | X min (*) | X max (*) | |
| **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 |

(*) **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.

# GHIERE DI SERRAGGIO PER PINZE Tipo 052
## CLAMPING NUTS FOR ERC COLLETS

### GHIERE MINI (MINI CLAMPING NUTS) Fig. 1

| Art. / Code | Tipo / Type | D | H | F / Thread |
|---|---|---|---|---|
| 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 |

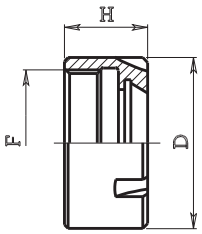


Fig. 1

### GHIERE ESAGONALI (HEXAGONAL CLAMPING NUTS) Fig. 2

| Art. / Code | Tipo / Type | D | H | F / Thread |
|---|---|---|---|---|
| 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 |

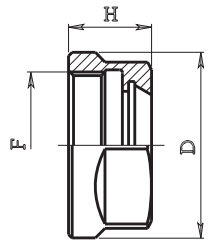


Fig. 2

### GHIERE ESAGONALI (HEXAGONAL CLAMPING NUTS) Fig. 2

| Art. / Code | Tipo / Type | D | H | F / Thread |
|---|---|---|---|---|
| 052.211 M | ERC 11 | 16 | 12 | 13x0.75 |
| 052.216 M | ERC 16 | 25 | 18 | 19x1 |
| 052.220 M | ERC 20 | 30 | 19 | 24x1 |
| 052.225 M | ERC 25 | 37 | 20 | 30x1 |

### GHIERE STANDARD (STANDARD CLAMPING NUTS) Fig. 3

| Art. / Code | Tipo / Type | D | H | F / Thread |
|---|---|---|---|---|
| 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 |

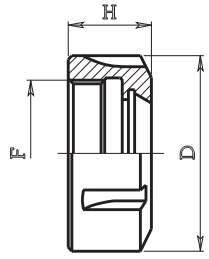


Fig. 3

### GHIERE FILETTO ESTERNO (EXTERNAL THREAD NUTS) Fig. 4

| Art. / Code | Tipo / Type | D | H | F / Thread |
|---|---|---|---|---|
| 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 |

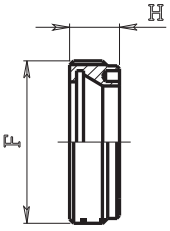
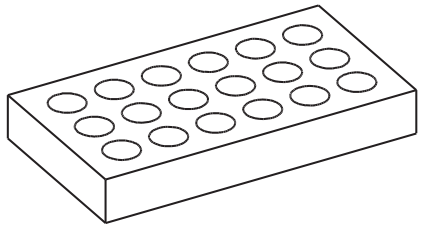


Fig. 4

* **Per chiave esagonale** (For hexagonal wrenchs)

## CONTENITORI PER PINZE ERC
### ERC COLLETS RACKS

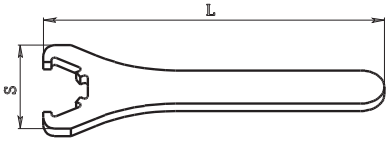


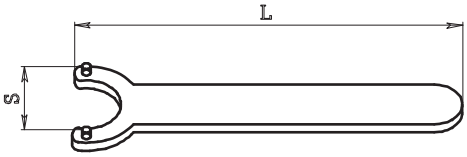
| Art. / Code | Pinza / Collet | N. sedi / Collets seats |
|---|---|---|
| 050.108 B | ERC 8 | 10 |
| 050.111 B | ERC 11 | 14 |
| 050.112 B | ERC 12 | 14 |
| 050.116 B | ERC 16 | 15 |
| 050.120 B | ERC 20 | 15 |
| 050.125 B | ERC 25 | 20 |
| 050.132 B | ERC 32 | 20 |
| 050.140 B | ERC 40 | 30 |

## CHIAVI PER GHIERE Tipo 053
### WRENCHS FOR CLAMPING NUTS

| Art. / Code | S | L | Tipo / Type | Art. per ghiera / Nut for code |
|---|---|---|---|---|
| 053.108 | 12 | 80 | ERC 8 | 052.108 |
| 053.111 | 16 | 96 | ERC 11 | 052.111 |
| 053.116 | 22 | 118 | ERC 16 | 052.116 |
| 053.120 | 28 | 130 | ERC 20 | 052.120 |
| 053.125 | 35 | 132 | ERC 25 | 052.125 |

| Art. / Code | S | L | Tipo / Type | Art. per ghiera / Nut for code |
|---|---|---|---|---|
| 053.316 | 50 | 160 | ERC 16 | 052.316 |
| 053.320 | 57 | 180 | ERC 20 | 052.320 |
| 053.325 | 65 | 210 | ERC 25 | 052.325 |
| 053.332 | 75 | 250 | ERC 32 | 052.332 |
| 053.340 | 90 | 290 | ERC 40 | 052.340 |
| 053.350 | 110 | 350 | ERC 50 | 052.350 |




| Art. / Code | S | L | Tipo / Type | Art. per ghiera / Nut for code |
|---|---|---|---|---|
| 053.420 | 20.5 | 160 | ERC 20 | 052.420 |
| 053.425 | 23.5 | 180 | ERC 25 | 052.425 |
| 053.432 | 32 | 200 | ERC 32 | 052.432 |