



Pinze di precisione  
*Precision collets*  
Präzision-Spannzangen  
*Pinces de précision*

ERCD-Metric

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Contenitori e cassette vuote in legno  
*Empty wooden boxes and racks*  
Holzsockel und Kasette  
*Socle et coffrets en bois, vides*

TYE-BXE

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ERCD

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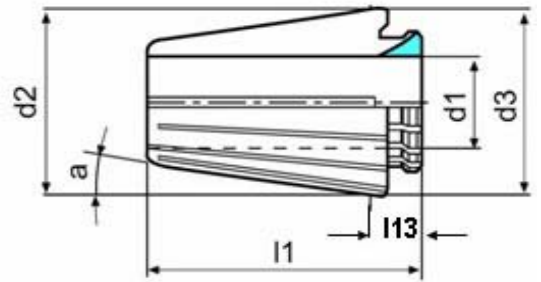
Ghiere chiudipinza prebilanciate - Chiavi  
*Prebalanced clamping nuts - Spanners*  
Vorausgewuchtete Spannmuttern - Spannschüssel  
*Écrous de serrage prééquilibrés - Clés de serrage*

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Le pinze ERCD sono utilizzate con gli stessi mandrini che montano le pinze ERC - DIN 6499 / B.  
Deve essere sostituita la ghiera chiudipinza **STANDARD** con la nuova ghiera tipo **DH** o **NF** descritte a pag. 2.5 - 2.6

**THE TOP OF THE PRECISION**



COD. ORDER Nr.	d <sub>1</sub>		d <sub>2</sub>	d <sub>3</sub>	a	l <sub>1</sub>	l <sub>13</sub> ①
	min.	max					
<b>ERCD 16</b>	1 ÷	10	16	17	8°	24	7,5
<b>ERCD 20</b>	1 ÷	13	20	21	8°	30,5	9
<b>ERCD 25</b>	2 ÷	16	25	26	8°	34	9,5
<b>ERCD 32</b>	3 ÷	20	32	33	8°	40	10
<b>ERCD 40</b>	4 ÷	26	40	41	8°	46	10

① Sporgenza delle pinze - Projection of the collets

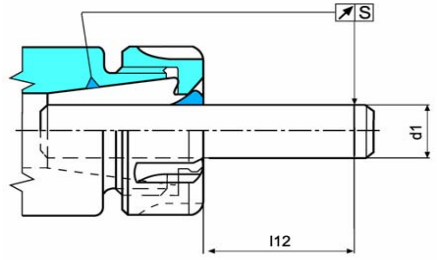
**LA NUOVA PINZA DALLE PRESTAZIONI SUPERIORI:**

- Sono compatibili e si alloggianno nelle stesse sedi delle pinze ERC/DIN 6499, utilizzando le ghiere concentriche tipo G – DH.
- Garantiscono una precisione di concentricità superiore alle pinze ERC rendendole particolarmente adatte all'impiego su mandrini rotanti ad alte velocità.
- Le caratteristiche costruttive sono uguali a quelle delle pinze ERC
- La capacità di serraggio è uguale a quella delle pinze ERC/DIN 6499 B

**THE NEW COLLET WITH HIGH PERFORMANCE AND BEST TIR (Total indicator reading)**

- ERCD collets improved the accuracy in ERC/DIN 6499 collet chucks.
- ERCD collets are mounted in ERC collet chucks, changing the excentric nut with the concentric clamping nut G – DH.
- The design of ERCD collets grant a better runout tolerance than ERC style.
- G – DH clamping nuts provides better balance for high-speed machining.
- The manufacturing specifications are the same of ERC collets
- ERCD collets collapse as per ERC/DIN 6499 B to accept a wide range of tools.

Precisione di rotazione delle pinze ERCD  
 ERCD Collet concentricity specification  
 Rundlauf toleranzen für ERCD-Zangen  
 Tolérance de battement de la pince ERCD



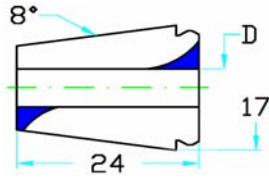
minimum		maximum		l <sub>12</sub>		S max ①	
mm	inch	mm	inch	mm	inch	mm	inch
1	.039"	1,6	.063"	6	.236"	0,010	.0004"
1,6	.063"	3	.118"	10	.394"	0,010	.0004"
3	.118"	7	.236"	16	.630"	0,010	.0004"
7	.236"	10	.394"	25	.984"	0,010	.0004"
10	.394"	18	.709"	40	1.57"	0,015	.0006"
18	.709"	26	1.18"	50	1.96"	0,015	.0006"
26	1.18"	40	1.57"	60	2.36"	0,015	.0006"

① Valori validi solo per il diametro nominale delle pinze  
 The tolerances are valid only for nominal diameter of the collet

## 2 ERCD Collets - DIN 6499 compatible **CAPORALI**

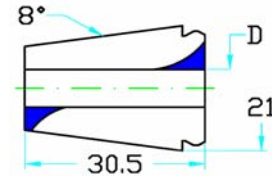
Pinze di precisione - Serie di pinze  
 Precision collets - Collet sets  
 Präzision Spannzangen - Spannzangensatz  
 Pincas de precisión - Jeux de pincas

### ERCD 16 - METRIC



Ref.	Order Nr.	Price
135-016	ERCD16.D1	
	ERCD16.D2	
	ERCD16.D3	
	ERCD16.D4	
	ERCD16.D5	
	ERCD16.D6	
	ERCD16.D7	
	ERCD16.D8	
	ERCD16.D9	
	ERCD16.D10	

### ERCD 20 - METRIC



Ref.	Order Nr.	Price
135-020	ERCD20.D2	
	ERCD20.D3	
	ERCD20.D4	
	ERCD20.D5	
	ERCD20.D6	
	ERCD20.D7	
	ERCD20.D8	
	ERCD20.D9	
	ERCD20.D10	
	ERCD20.D11	
	ERCD20.D12	
	ERCD20.D13	

### TY.ERCD 16 - Wooden Tray



Ref.	Order Nr.	Price
136-016	TY.ERCD16-10	

TY.ERCD16-10 collets:  
 D. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10

### TY.ERCD 20 - Wooden Tray



Ref.	Order Nr.	Price
136-020	TY.ERCD20-12	

TY.ERCD20-12 collets:  
 D. 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13

### BX.ERCD 16 - Wooden Box



Ref.	Order Nr.	Price
137-016	BX.ERCD16-10	

BX.ERCD16-10 collets:  
 D. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10

### BX.ERCD 20 - Wooden Box

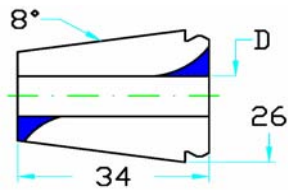


Ref.	Order Nr.	Price
137-020	BX.ERCD20-12	

BX.ERCD20-12 collets:  
 D. 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13

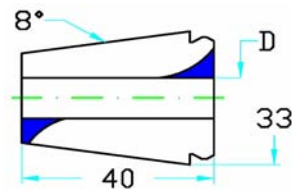
## 2 ERCD Collets - DIN 6499 compatible CAPORALI

### ERCD 25 - METRIC



Ref.	Order Nr.	Price
135-025	ERCD25.D2	
	ERCD25.D3	
	ERCD25.D4	
	ERCD25.D5	
	ERCD25.D6	
	ERCD25.D7	
	ERCD25.D8	
	ERCD25.D9	
	ERCD25.D10	
	ERCD25.D11	
	ERCD25.D12	
	ERCD25.D13	
	ERCD25.D14	
	ERCD25.D15	
	ERCD25.D16	

### ERCD 32 - METRIC



Ref.	Order Nr.	Price
135-032	ERCD32.D3	
	ERCD32.D4	
	ERCD32.D5	
	ERCD32.D6	
	ERCD32.D7	
	ERCD32.D8	
	ERCD32.D9	
	ERCD32.D10	
	ERCD32.D11	
	ERCD32.D12	
	ERCD32.D13	
	ERCD32.D14	
	ERCD32.D15	
	ERCD32.D16	
	ERCD32.D17	
	ERCD32.D18	
	ERCD32.D19	
	ERCD32.D20	

### TY.ERCD 25 - Wooden Tray



Ref.	Order Nr.	Price
136-025	TY.ERCD25-15	

TY.ERCD25-15 collets:  
 D. 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10  
 D. 11 . 12 . 13 . 14 . 15 . 16

### TY.ERCD 32 - Wooden Tray



Ref.	Order Nr.	Price
136-032	TY.ERCD32-18	

TY.ERCD32-18 collets:  
 D. 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12  
 D. 13 . 14 . 15 . 16 . 17 . 18 . 19 . 20

### BX.ERCD 25 - Wooden Box



Ref.	Order Nr.	Price
137-025	BX.ERCD25-15	

BX.ERC25-15 collets:  
 D. 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10  
 D. 11 . 12 . 13 . 14 . 15 . 16

### BX.ERCD 32 - Wooden Box

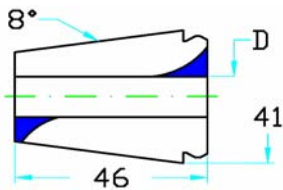


Ref.	Order Nr.	Price
137-032	BX.ERCD32-18	

BX.ERC32-18 collets:  
 D. 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12  
 D. 13 . 14 . 15 . 16 . 17 . 18 . 19 . 20

## 2 ERCD Collets - DIN 6499 compatible **CAPORALI**

### ERCD 40 - METRIC



Ref.	Order Nr.	Price
135-040	ERCD40.D4	
	ERCD40.D5	
	ERCD40.D6	
	ERCD40.D7	
	ERCD40.D8	
	ERCD40.D9	
	ERCD40.D10	
	ERCD40.D11	
	ERCD40.D12	
	ERCD40.D13	
	ERCD40.D14	
	ERCD40.D15	
	ERCD40.D16	
	ERCD40.D17	
	ERCD40.D18	
	ERCD40.D19	
	ERCD40.D20	
	ERCD40.D21	
	ERCD40.D22	
	ERCD40.D23	
	ERCD40.D24	
	ERCD40.D25	
	ERCD40.D26	

Contenitori vuoti per pinze  
 Empty wooden racks for collets  
 Holzsockel für Zangensatz  
 Socle en bois vides pour pinces



Ref.	Order Nr.	Sedi-Seats	Price
136-001	TYE.ERCD16-15	15	
	TYE.ERCD20-15	15	
	TYE.ERCD25-20	20	
	TYE.ERCD32-20	20	
	TYE.ERCD40-30	30	

### TY.ERCD 40 - Wooden Tray



Ref.	Order Nr.	Price
136-040	TY.ERCD40-23	

TY.ERCD40-23 collets:  
 D. 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13  
 D. 14 . 15 . 16 . 17 . 18 . 19 . 20 . 21  
 D. 22 . 23 . 24 . 25 . 26

Cassette vuote per pinze  
 Empty wooden boxes for collets  
 Holzkassette für Zangensatz  
 Coffrets en bois vides pour pinces



Ref.	Order Nr.	Sedi-Seats	Price
136-002	BXE.ERCD16-15	15	
	BXE.ERCD20-15	15	
	BXE.ERCD25-20	20	
	BXE.ERCD32-20	20	
	BXE.ERCD40-30	30	

### BX.ERCD 40 - Wooden Box



Ref.	Order Nr.	Price
137-040	BX.ERCD40-23	

BX.ERCD40-23 collets:  
 D. 4 . 5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13  
 D. 14 . 15 . 16 . 17 . 18 . 19 . 20 . 21  
 D. 22 . 23 . 24 . 25 . 26

**Le pinze ERCD con alesaggi in pollici sono disponibili a richiesta**

*ERCD collets with inch sizes are available on request*

## 2 ERCD Clamping nuts

CAPORALI

Ghiere Chiudipinza prebilanciate  
*Prebalanced clamping nuts*  
 Vorausgewuchtete Spannmuttern  
 Écrous de serrage preequilibrés



### BALANCING INDEX G 6,3



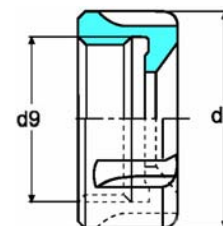
Fig. 1



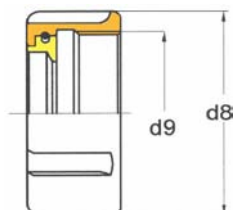
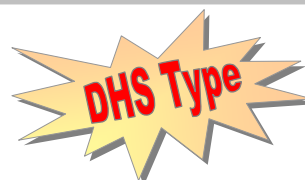
Fig. 2



Ref.	Order Nr.	Fig.	d9	d8	max rpm	Price
138-001	G16DHM	1	M19 X 1	24	20.000	
	G20DHM	1	M24 x 1	30,5	20.000	
	G25DHM	1	M30 x 1	36	20.000	
138-002	G16DH	2	M22 x 1,5	32	20.000	
	G20DH	2	M25 x 1,5	35	20.000	
	G25DH	2	M32 x 1,5	42	18.000	
	G32DH	2	M40 x 1,5	50	18.000	
	G40DH	2	M50 x 1,5	63	15.000	



Ghiere chiudipinza con anello rotante antifrizione  
*Antifriction sliding bearing clamping nuts*  
 Spannmuttern mit Gleitlager  
 Écrous de serrage à palier lisse



Ref.	Order Nr.	d9	d8	max rpm	Price
138-012	G16DHS	M22 x 1,5	32	18.000	
	G20DHS	M25 x 1,6	35	18.000	
	G25DHS	M32 x 1,5	42	15.000	
	G32DHS	M40 x 1,5	50	15.000	
	G40DHS	M50 x 1,5	63	12.000	

### CARATTERISTICHE:

- L'anello rotante delle ghiere DHS, evita la torsione della pinza evita la torsione della pinza ERCD durante la fase di chiusura.
- La forza di serraggio viene così aumentata di circa due volte rispetto ad una ghiera standard

### FEATURES:

- With the sliding bearing nuts DHS, the torque caused by tightening the nuts is not transmitted to ERCD collet
- The clamping force is two times higher than standard nut.

COPPIE DI SERRAGGIO CONSIGLIATE PER LE GHIERE ERCD - vedi pag. 1.43

RECOMMENDED CLAMPING TORQUE FOR ERCD NUTS - see pag. 1.43

Chiavi  
 Spanners  
 Spannschüssel  
 Clés de serrage



Fig. 1



Fig. 2

Ref.	Order Nr.	Fig.	s	Price
139-001	CH16DHM	1	22	
	CH20DHM	1	28	
	CH25DHM	1	34	
139-002	CH16DH	2	—	
	CH20DH	2	—	
	CH25DH	2	—	
	CH32DH	2	—	
	CH40DH	2	—	

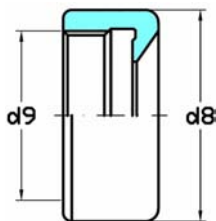
## 2 ERCD Clamping nuts

CAPORALI

Ghiere chiudipinza prebilanciate  
*Prebalanced clamping nuts*  
 Vorausgewuchtete Spannmuttern  
 Écrous de serrage prééquilibrés



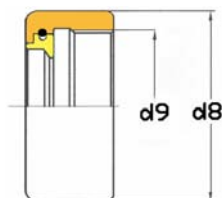
### BALANCING INDEX G 6,3



Ref.	Order Nr.	d9	d8	max rpm	Price
138-020	NF16DM	M19 x 1	24	25.000	
	NF20DM	M24 x 1	30	25.000	
	NF25DM	M30 x 1	37	25.000	
	NF16D	M22 x 1,5	32	25.000	
	NF20D	M25 x 1,5	35	25.000	
	NF25D	M32 x 1,5	42	20.000	
	NF32D	M40 x 1,5	50	20.000	
	NF40D	M50 x 1,5	63	15.000	

Ghiere chiudipinza con anello rotante antifrizione  
*Antifriction sliding bearing clamping nuts*  
 Spannmutter mit Gleitlager  
 Écrous de serrage à palier lisse

### BALANCING INDEX G 6,3



Ref.	Order Nr.	d9	d8	max rpm	Price
138-023	NF16DHS	M22 x 1,5	32	20.000	
	NF20DHS	M25 x 1,5	35	20.000	
	NF25DHS	M32 x 1,5	42	18.000	
	NF32DHS	M40 x 1,5	50	18.000	
	NF40DHS	M50 x 1,5	63	15.000	

#### CARATTERISTICHE:

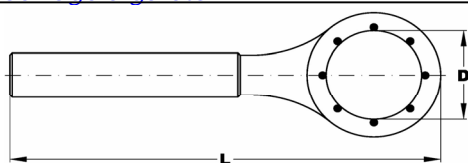
- Le ghiere NOTCH-FREE, prive di tacche, sono impiegate nelle lavorazioni ad alte velocità di rotazione.
- Riducono le vibrazioni, esaltano i parametri di taglio degli utensili permettendo finiture delle superfici molto accurate.
- Anche la rumorosità viene ad essere notevolmente smorzata per la sicurezza degli operatori

#### FEATURES:

- The "NOTCH-FREE NUTS" are used with the collet chucks running to the very high speeds required today.
- They improved the cutting tool life and grant a super finish of the worked surfaces, due to the drastic reduction of the vibrations.
- They reduce also the noise level for operator security.

Chiave di serraggio a rulli bidirezionali  
*Clamping spanner with double-way clutch*  
 Rollenschlüssel  
 Clés de serrage à galets

Nuts NF / D



Ref.	Order Nr.	D	L	Price
139-001	SP16RLM	24	130	
	SP20RLM	30	130	
	SP25RLM	37	150	
	SP16RL	32	150	
	SP20RL	35	150	
	SP25RL	42	180	
	SP32RL	50	220	
	SP40RL	63	250	

LA GRANDE FORZA DI SERRAGGIO  
 E' DISTRIBUITA SU TUTTA  
 LA CIRCONFERENZA DELLA GHIERA

