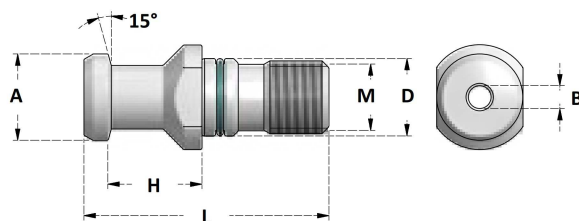


TIRANTI DIN69872

PULL STUDS DIN69872

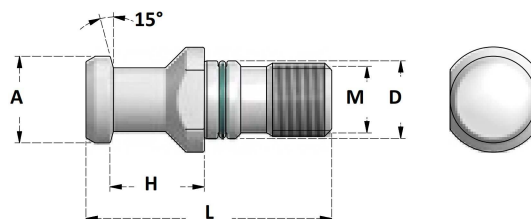


TIRANTI DIN69872A FORATI

PULL STUDS DIN69872A WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.DIN30F	M12	13	19	13	44	2,5	30
PS.DIN40F	M16	19	20	17	54	7	40
PS.DIN50F	M24	28	25	25	74	11,5	50

* Senza O-Ring
Without O-Ring

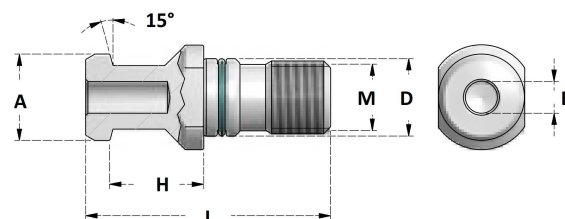


TIRANTI DIN69872A SENZA FORO

PULL STUDS DIN69872A WITHOUT COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.DIN30SF	M12	13	19	13	44	/	30
PS.DIN40SF	M16	19	20	17	54	/	40
PS.DIN50SF	M24	28	25	25	74	/	50

* Senza O-Ring
Without O-Ring



TIRANTI 69872B SEMIFORATI

PULL STUDS 69872B WITH HALF BORE

Articolo	M	A	H±0,05	D	L	B	CONO
PS.DIN40B	M16	19	20	17	54	7	40
PS.DIN50B	M24	28	25	25	74	11,5	50

SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

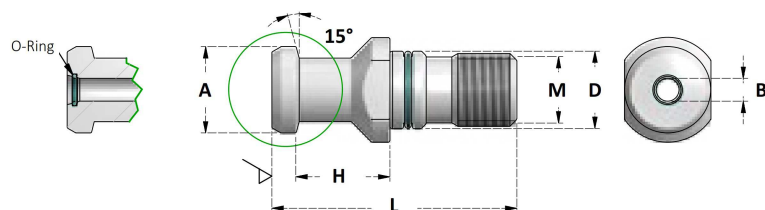
ACCESSORI - ACCESSORIES



TIRANTI DIN69872

PULL STUDS DIN69872

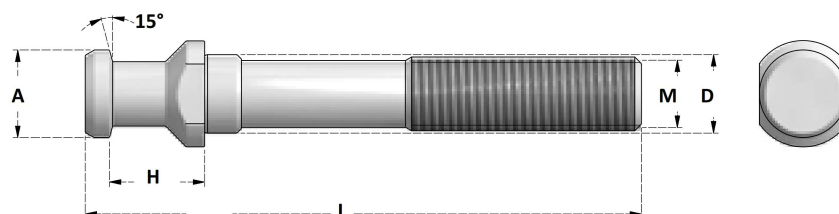
TESTA RETTIFICATA
GRINDED HEAD



TIRANTI CON DOPPIO O-RING PER REFRIGERANTE AD ALTA PRESSIONE

PULL STUDS WITH DOUBLE O-RING FOR HIGH PRESSION COOLANT

Articolo	M	A	H±0,05	D	L	B	CONO
PS.DIN40.2OR	M16	19	20	17	54	7	40
PS.DIN40.2OR-BT	M16	19	23	17	54	7	40
PS.DIN50.2OR	M24	28	25	25	74	11,5	50



TIRANTI DIN69872 PROLUNGATI PER RIDUZIONI A CONO MORSE

PULL STUDS DIN69872 EXTENDED FOR MORSE TAPER SLEEVES

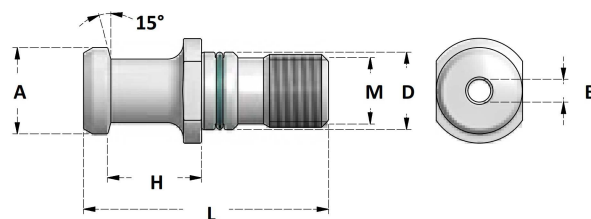
Articolo	M	A	H±0,05	D	L	B	CONO
PSL.DIN40.M10	M10	19	20	17	111	/	40
PSL.DIN40.M12	M12	19	20	17	116	/	40
PSL.DIN40.M16	M16	19	20	17	121	/	40

Fino a esaurimento / While stocks last

ACCESSORI - ACCESSORIES



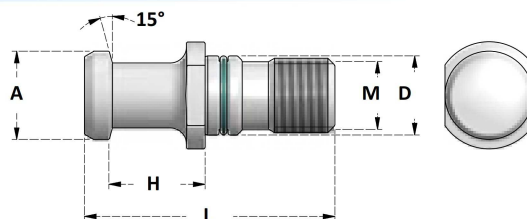
TIRANTI ISO 7388/2A
PULL STUDS ISO 7388/2A



TIRANTI ISO7388/2A FORATI
PULL STUDS ISO7388/2A WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.TC30F	M12	12	19	13	44	4	30
PS.TC40F	M16	19	20	17	54	7	40
PS.TC50F	M24	28	25	25	74	11,5	50

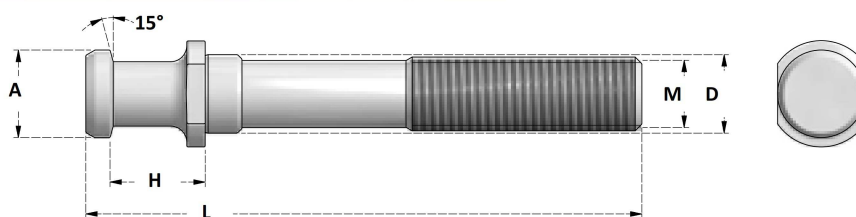
* Senza O-Ring
Without O-Ring



TIRANTI ISO7388/2A SENZA FORO
PULL STUDS ISO7388/2A WITHOUT COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.TC30SF	M12	12	19	13	44	/	30
PS.TC40SF	M16	19	20	17	54	/	40
PS.TC50SF	M24	28	25	25	74	/	50

* Senza O-Ring
Without O-Ring



TIRANTI ISO7388/2A PROLUNGATI PER RIDUZIONI A CONO MORSE
PULL STUDS ISO7388/2A EXTENDED FOR MORSE TAPER SLEEVES

Articolo	M	A	H±0,05	D	L	B	CONO
PSL.TC40.M10	M10	19	20	17	111	/	40
PSL.TC40.M12	M12	19	20	17	116	/	40
PSL.TC40.M16	M16	19	20	17	121	/	40

Fino a esaurimento / While stocks last

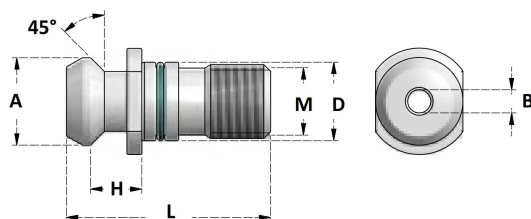
Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

TIRANTI ISO 7388/2B

PULL STUDS ISO7388/2B

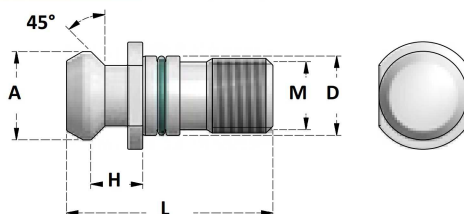


TIRANTI ISO7388/2B FORATI

PULL STUDS ISO7388/2B WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.CAT30F	M12	13,35	8,15	12,5	34	4	30
PS.CAT40F	M16	18,95	11,15	17	44,5	7	40
PS.CAT50F	M24	29,1	17,95	25	65,5	11,5	50

* Senza O-Ring
Without O-Ring

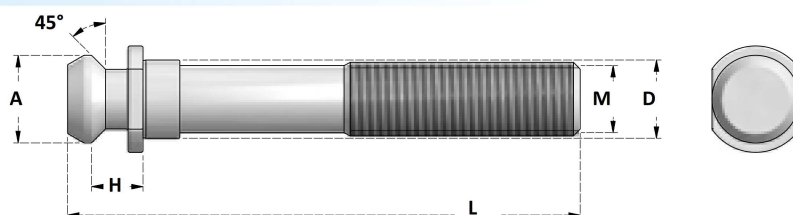


TIRANTI ISO7388/2B SENZA FORO

PULL STUDS ISO7388/2B WITHOUT COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.CAT30SF	M12	13,35	8,15	12,5	34	/	30
PS.CAT40SF	M16	18,95	11,15	17	44,5	/	40
PS.CAT50SF	M24	29,1	17,95	25	65,5	/	50

* Senza O-Ring
Without O-Ring



TIRANTI ISO7388/2B PROLUNGATI PER RIDUZIONI CONO MORSE

PULL STUDS ISO7388/2B EXTENDED FOR MORSE TAPER SLEEVES

Articolo	M	A	H±0,05	D	L	B	CONO
PSL.CAT40.M10	M10	18,95	11,15	17	101,4	/	40
PSL.CAT40.M12	M12	18,95	11,15	17	106,4	/	40
PSL.CAT40.M16	M16	18,95	11,15	17	111,4	/	40

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

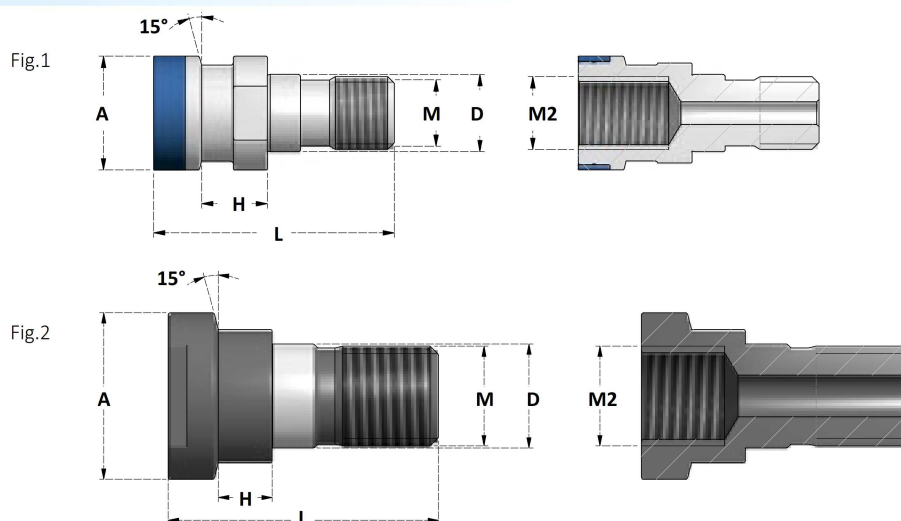
Fino a esaurimento / While stocks last

SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

ACCESSORI - ACCESSORIES



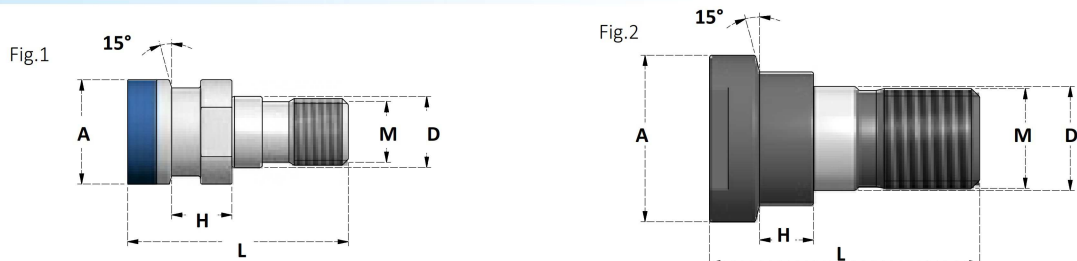
TIRANTI OTT OTT PULL STUDS



TIRANTI OTT FORATI

OTT PULL STUDS WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	M2	CONO	Fig
PS.OTT40.TCF	M16	25	14,52	17	53,1	M16	TC40	Fig.1
PS.OTT40.BTF	M16	25	17,54	17	56	M16	BT40	Fig.1
PS.OTT50.TBF	M24	39,6	14	25	65	M24	TC/BT50	Fig.2



TIRANTI OTT NON FORATI

OTT PULL STUDS WITHOUT COOLANT BORE

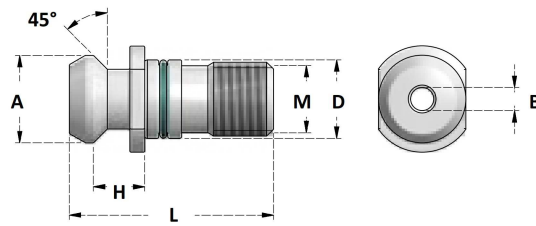
Articolo	M	A	H±0,05	D	L	M2	CONO	Fig
PS.OTT40.TCSF	M16	25	14,52	17	53,1	/	TC40	Fig.1
PS.OTT40.BTSF	M16	25	17,54	17	56	/	BT40	Fig.1
PS.OTT50.TBSF	M24	39,6	14	25	65	/	TC/BT50	Fig.2

I CODOLI OTT SERVONO PER MONTARE I MANDRINI TC(DIN69871) E BT(MAS403) SU MACCHINE CON SEDE ISO(DIN2080)

OTT PULL STUDS ALLOW TO MOUNT TC(DIN69871) AND BT(MAS403) TOOLHOLDERS ON ISO(DIN2080) MACHINES

TIRANTI MAZAK

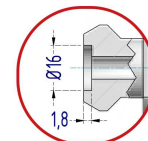
MAZAK PULL STUDS



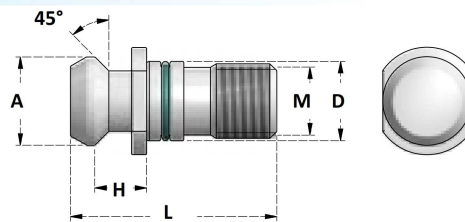
TIRANTI MAZAK FORATI

PULL STUDS MAZAK WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
PS.CAT40.MZ1F	M16	18,8	11,17	17	41,25	7	40
PS.CAT40.MZ2F	M16	18,8	14,02	17	44,1	7	40
PS.CAT50.MZ3F*	M24	28,95	17,58	25	65,2	10	50
PS.CAT50.MZ4F*	M24	28,95	17,78	25	65,4	10	50



* Con sede chip
With chip slot

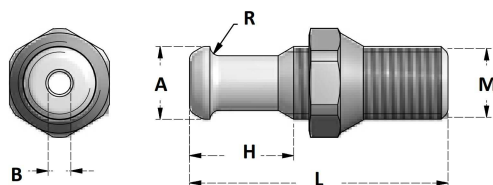


TIRANTI MAZAK SENZA FORO

PULL STUDS MAZAK WITHOUT COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
PS.CAT40.MZ1SF	M16	18,8	11,17	17	41,25	/	40
PS.CAT40.MZ2SF	M16	18,8	14,02	17	44,1	/	40

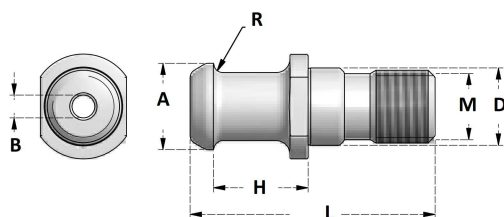
TIRANTI C.B. FERRARI
PULL STUDS C.B. FERRARI



TIRANTI C.B. FERRARI FORATI
PULL STUDS C.B. FERRARI WITH COOLANT BORE

Articolo	M	R	A	H±0,05	L	B	CONO
PS.CBF40.050	M16	3,7	16	23	57	5	40

Dado incluso
Nut included



TIRANTI C.B. FERRARI FORATI
PULL STUDS C.B. FERRARI WITH COOLANT BORE

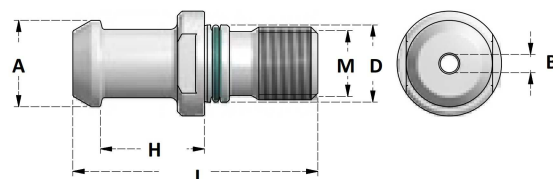
Articolo	M	R	A	H±0,05	D	L	B	CONO
PS.CBF30.051	M12	3,4	12	19,5	13	44	3	30
PS.CBF40.051	M16	3,7	19	20,31	17	54	5	40
PS.CBF50.051	M24	4,3	28	25,5	25	74	6	50

SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

TIRANTI JIS-B 6339

PULL STUDS JIS-B 6339

TESTA RETTIFICATA
GRINDED HEAD

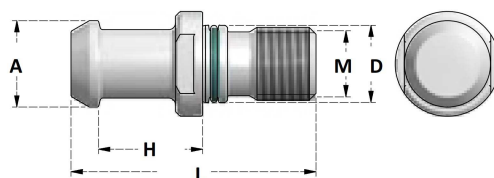


TIRANTI JIS-B 6339 FORATI

PULL STUDS JIS-B 6339 WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.JS30.F3	M12	12	18,4	12,5	43	3	30
PS.JS40.F3	M16	19	23	17	54	3	40
PS.JS40.F4	M16	19	23	17	54	4	40
PS.JS40.F5	M16	19	23	17	54	5	40
PS.JS40.F554	M16	19	23	17	54	5,5-4	40
PS.JS40.F6	M16	19	23	17	54	6	40
PS.JS40.F7	M16	19	23	17	54	7	40
PS.JS50.F10	M24	28	25	25	74	10	50

* Senza O-Ring
Without O-Ring

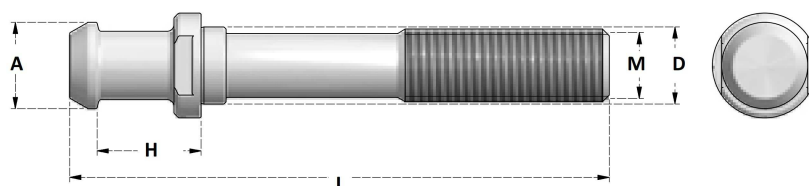


TIRANTI JIS-B 6339 SENZA FORO

PULL STUDS JIS-B 6339 WITHOUT COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
* PS.JS30SF	M12	12	18,4	12,5	43	/	30
PS.JS40SF	M16	19	23	17	54	/	40
PS.JS50SF	M24	28	25	25	74	/	50

* Senza O-Ring
Without O-Ring



TIRANTI JIS-B 6339 PROLUNGATI PER RIDUZIONI CONO MORSE

PULL STUDS JIS-B 6339 EXTENDED FOR MORSE TAPER SLEEVES

Articolo	M	A	H±0,05	D	L	B	CONO
PSL.JS40.M10	M10	19	23	17	114	/	40
PSL.JS40.M12	M12	19	23	17	114	/	40
PSL.JS40.M16	M16	19	23	17	119	/	40

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

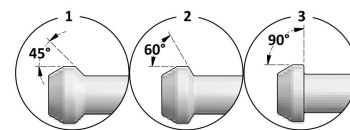
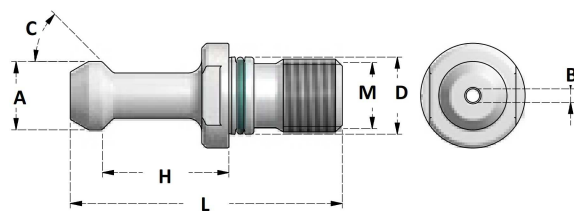
SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

ACCESSORI - ACCESSORIES



TIRANTI MAS403BT

PULL STUDS MA403BT

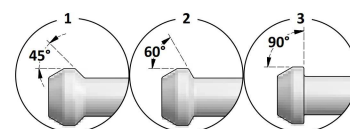
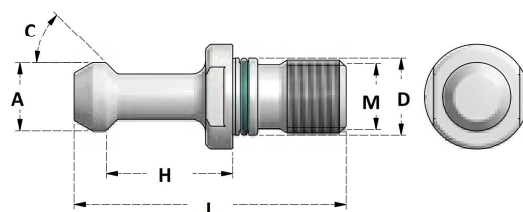


TIRANTI MAS403BT FORATI

PULL STUDS MAS403BT WITH COOLANT BORE

Articolo	M	C	A	H±0,05	D	L	B	CONO
* PS.BT30.1F	M12	45°	11	18	12,5	43	2,5	BT30
* PS.BT30.2F	M12	60°	11	18	12,5	43	2,5	BT30
* PS.BT30.3F	M12	90°	11	18	12,5	43	2,5	BT30
PS.BT40.1F	M16	45°	15	28	17	60	3	BT40
PS.BT40.2F	M16	60°	15	28	17	60	3	BT40
PS.BT40.3F	M16	90°	15	28	17	60	3	BT40
PS.BT50.1F	M24	45°	23	35	25	85	6	BT50
PS.BT50.2F	M24	60°	23	35	25	85	6	BT50
PS.BT50.3F	M24	90°	23	35	25	85	6	BT50

* Senza O-Ring
Without O-Ring



TIRANTI MAS403BT SENZA FORO

PULL STUDS MAS403BT WITHOUT COOLANT BORE

Articolo	M	C	A	H±0,05	D	L	B	CONO
* PS.BT30.1SF	M12	45°	11	18	12,5	43	/	BT30
* PS.BT30.2SF	M12	60°	11	18	12,5	43	/	BT30
* PS.BT30.3SF	M12	90°	11	18	12,5	43	/	BT30
PS.BT40.1SF	M16	45°	15	28	17	60	/	BT40
PS.BT40.2SF	M16	60°	15	28	17	60	/	BT40
PS.BT40.3SF	M16	90°	15	28	17	60	/	BT40
PS.BT50.1SF	M24	45°	23	35	25	85	/	BT50
PS.BT50.2SF	M24	60°	23	35	25	85	/	BT50
PS.BT50.3SF	M24	90°	23	35	25	85	/	BT50

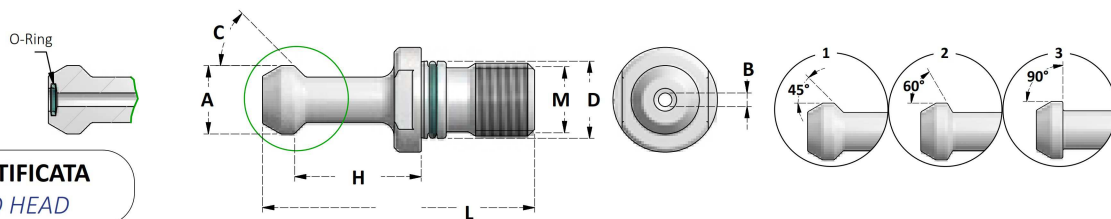
* Senza O-Ring
Without O-Ring

SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

ACCESSORI - ACCESSORIES



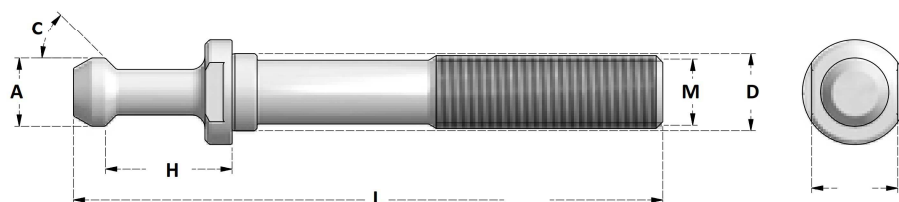
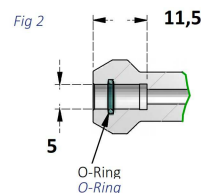
TIRANTI MAS403BT
PULL STUDS MAS403BT



TIRANTI CON DOPPIO O-RING PER REFRIGERANTE AD ALTA PRESSIONE
PULL STUDS WITH DOUBLE O-RING FOR HIGH PRESSION COOLANT

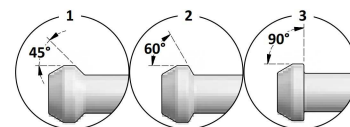
Articolo	M	C	A	H±0,05	D	L	B	CONO
PS.BT40.1.2OR	M16	45°	15	28	17	60	3	40
* PS.BT40.1.2OR-5	M16	45°	15	28	17	60	3	40
PS.BT40.2.2OR	M16	60°	15	28	17	60	3	40
PS.BT50.1.2OR	M24	45°	23	35	25	85	6	50
PS.BT50.2.2OR	M24	60°	23	35	25	85	6	50
PS.BT50.3.2OR	M24	90°	23	35	25	85	6	50

* Fig 2



TIRANTI MAS403 PROLUNGATI PER RIDUZIONI A CONO MORSE
PULL STUDS MAS403 EXTENDED FOR MORSE TAPER SLEEVES

Articolo	M	C	A	H±0,05	D	L	B	CONO
PSL.BT40.1M10	M10	45°	15	28	17	120	/	40
PSL.BT40.1M12	M12	45°	15	28	17	120	/	40
PSL.BT40.1M16	M16	45°	15	28	17	125	/	40
PSL.BT40.2M10	M10	60°	15	28	17	120	/	40
PSL.BT40.2M12	M12	60°	15	28	17	120	/	40
PSL.BT40.2M16	M16	60°	15	28	17	125	/	40
PSL.BT40.3M10	M10	90°	15	28	17	120	/	40
PSL.BT40.3M12	M12	90°	15	28	17	120	/	40
PSL.BT40.3M16	M16	90°	15	28	17	125	/	40



Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

Fino a esaurimento / While stocks last

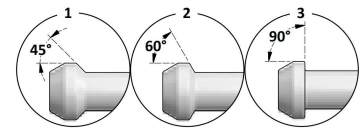
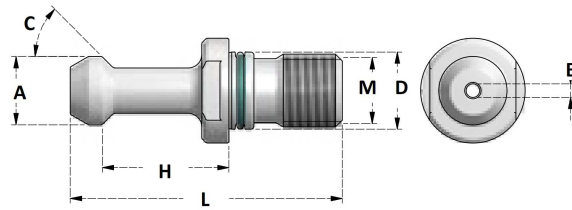
Fino a esaurimento / While stocks last

SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

ACCESSORI - ACCESSORIES

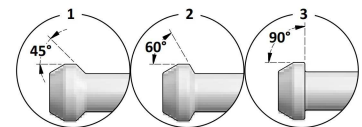
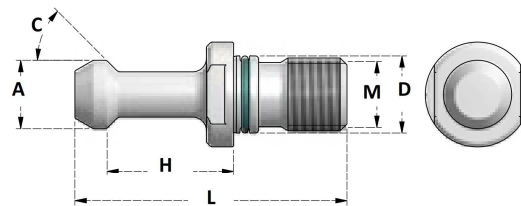


TIRANTI HURCO
PULL STUDS HURCO



TIRANTI HURCO FORATI
PULL STUDS HURCO WITH COOLANT BORE

Articolo	M	C	A	H±0,05	D	L	B	CONO
PS.BT40.HC1F	M16	45°	15	25,15	17	57,15	3	40
PS.BT40.HC2F	M16	60°	15	25,15	17	57,15	3	40
PS.BT40.HC3F	M16	90°	15	25,15	17	57,15	3	40

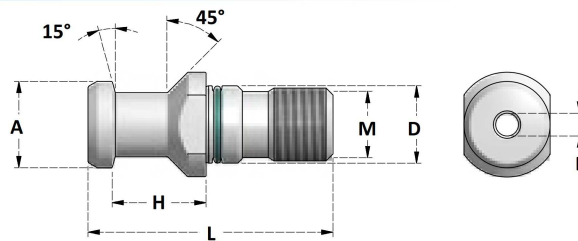


TIRANTI HURCO SENZA FORO
PULL STUDS HURCO WITHOUT COOLANT BORE

Articolo	M	C	A	H±0,05	D	L	B	CONO
PS.BT40.HC1SF	M16	45°	15	25,15	17	57,15	/	40
PS.BT40.HC2SF	M16	60°	15	25,15	17	57,15	/	40
PS.BT40.HC3SF	M16	90°	15	25,15	17	57,15	/	40

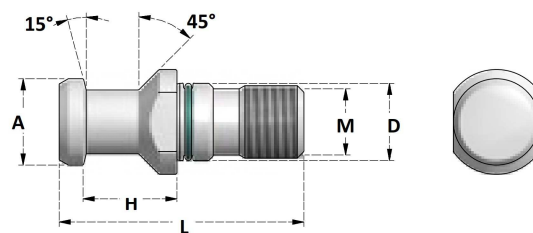
SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

TIRANTI KITAMURA PULL STUDS KITAMURA



TIRANTI KITAMURA FORATI PULL STUDS KITAMURA WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
PS.KIT40F	M16	19	23	17	54	7	40



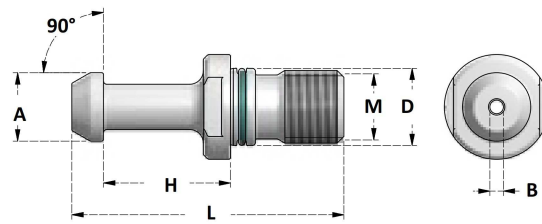
TIRANTI KITAMURA SENZA FORO PULL STUDS KITAMURA WITHOUT COOLANT BORE

Articolo	M	C	A	H±0,05	D	L	B	CONO
* PS.KIT30SF	M12	45°	13	22,2	21,5	48	/	30
PS.KIT40SF	M16	15°	19	23,2	17	57,2	/	40

* Senza O-Ring
Without O-Ring

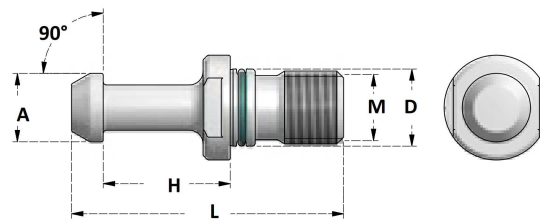
SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

TIRANTI MITSUI SEIKI
PULL STUDS MITSUI SEIKI



TIRANTI MITSUI SEIKI FORATI
PULL STUDS MITSUI SEIKI WITH COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
PS.MIT40F	M16	15	18	17	50	3	40
PS.MIT50F	M24	24	23	25	71	8	50

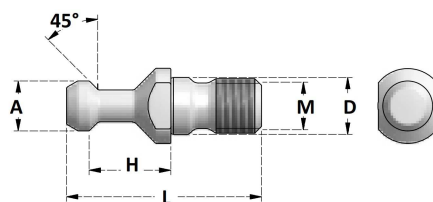


TIRANTI MITSUI SEIKI SENZA FORO
PULL STUDS MITSUI SEIKI WITHOUT COOLANT BORE

Articolo	M	A	H±0,05	D	L	B	CONO
PS.MIT40SF	M16	15	18	17	50	/	40
PS.MIT50SF	M24	24	23	25	71	/	50

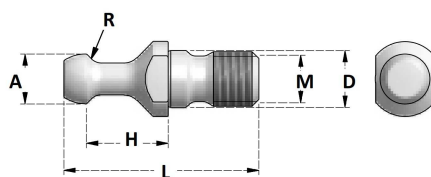
SEDE CHIP A RICHIESTA
CHIP HOLE ON REQUEST

TIRANTI PER MANDRINI PER LAVORAZIONE DEL LEGNO
PULL STUDS FOR WOODWORKING TOOL HOLDERS



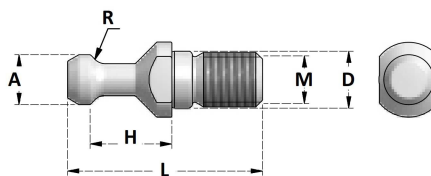
ALBERTI - COLOMBO

Articolo	M	A	H±0,05	D	L	CONO
PS.WD30.ALB	M12	12,8	19	13	44	30



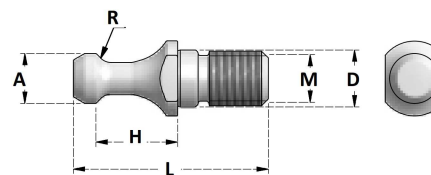
BIESSE

Articolo	M	R	A	H±0,05	D	L	CONO
PS.WD30.BS	M12	3,2	12	19	13	44	30



CMS

Articolo	M	R	A	H±0,05	D	L	CONO
PS.WD30.CMS	M12	2,4	12,8	19	11	44	30



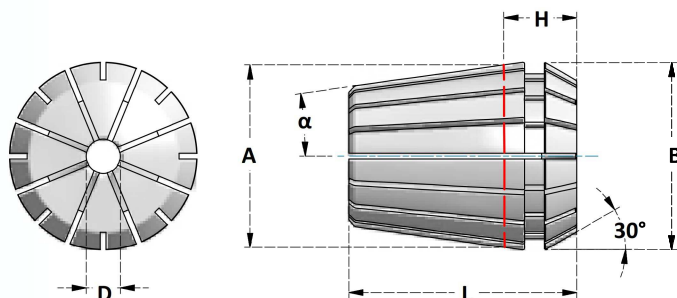
SCM

Articolo	M	R	A	H±0,05	D	L	CONO
PS.WD30.SCM	M10	2,3	8,5	18,3	11	42,5	30

DIN ISO 15488 (DIN6499)

**PINZE DI SERRAGGIO ER
ER CLAMPING COLLETS**

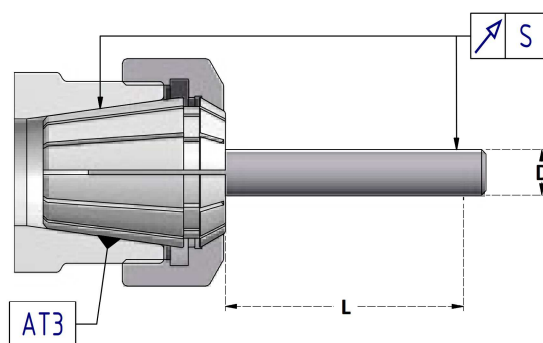
Grandezza Size	A	B	α	L	H	D
8	8	8,5	8°	13,5	4,5	1-5
11	11	11,5	8°	18	6,6	1-7
12	12	12	8°	19,5	5,8	1-7
16	16	17	8°	27,5	10,6	1-10
20	20	21	8°	31,5	11,5	1-14
25	25	26	8°	34	12	1-20
32	32	33	8°	40	13	2-22
40	40	41	8°	46	15	3-30
50	50	52	8°	60	21	6-34
60	60	61	10°	60	19,6	10-40



SIGLA	PAG	TIPO	CONCENTRICITA' RUNOUT	TENUTA SEALED	GRANDEZZE SIZES
ERC	282	PINZE STANDARD- CLASSE 1 STANDARD COLLETS - CLASS 1	$\nabla 0,008$		8- 11- 12- 16- 20- 25 32- 40- 50- 60
ERC P	286	PINZE STANDARD- CLASSE 1- ALESAGGI IN POLLICI STANDARD COLLETS - CLASS 1 - INCH SIZES	$\nabla 0,0004''$		11- 16- 20- 25 - 32- 40
ER	288	PINZE STANDARD- CLASSE 2 STANDARD COLLETS - CLASS 2	$\nabla 0,015$		16- 20- 25 - 32- 40
ERC HP	290	PINZE AD ALTA PRECISIONE HIGH PRECISION COLLETS	$\nabla 0,005$		8- 11- 16- 20- 25 - 32- 40
ERC SSC	293	PINZE A TENUTA MECCANICA SOLID SEALED COLLETS	$\nabla 0,008$	MECCANICA SOLID STEEL	16- 20- 25 - 32- 40
ERC RF	295	PINZE A TENUTA CON INSERTI IN NEOPRENE RUBBER SEALED COLLETS	$\nabla 0,008$	NEOPRENE RUBBER	11 - 16- 20- 25 - 32- 40- 50
ERC IK	298	PINZE A TENUTA CON TAGLI VULCANIZZATI RUBBER SEALED COLLETS	$\nabla 0,008$	NEOPRENE RUBBER	11 - 16- 20- 25 - 32
ERC JET	300	PINZE CON FORI DI LUBRIFICAZIONE EXTERNALLY COOLING COLLETS	$\nabla 0,008$		16- 20- 25 - 32- 40- 50
ERC M	303	PINZE PORTAMASCHI CON QUADRO TAP COLLETS WITH SQUARE	$\nabla 0,008$		16- 20- 25 - 32- 40- 50
ERC MRF	305	PINZE PORTAMASCHI CON QUADRO A TENUTA SEALED TAPPING COLLETS WITH SQUARE	$\nabla 0,008$	NEOPRENE RUBBER	16- 20- 25 - 32- 40
ERC FT	306	PINZE PORTAMASCHI CON COMPENSAZIONE ASSIALE TAPPING COLLETS WITH AXIAL COMPENSATION	$\nabla 0,008$		16- 20- 25 - 32- 40
ERC PA	308	PINZE CON OSCILLAZIONE RADIALE PER ALESATORI FLOATING COLLETS FOR REAMERS			16- 20- 25 - 32- 40

DIN ISO 15488 (DIN6499)

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY



D - h6	L MAX	S MAX	S MAX
		CLASS 1	CLASSE 2
1mm ÷ 1,6mm	6mm		
1,6mm ÷ 3mm	10mm		
3mm ÷ 7mm	16mm	≤0,01	≤0,015
7mm ÷ 10mm	25mm		
10mm ÷ 18mm	40mm		
18mm ÷ 26mm	50mm	≤0,015	≤0,02
26mm ÷ 40mm	60mm		

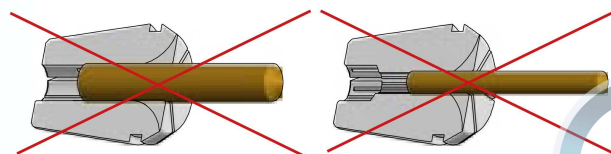
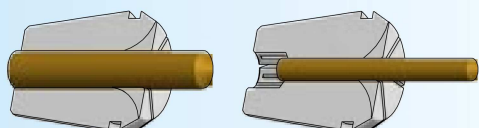
I valori di precisione indicati sono la media di 3 misurazioni a 120° eseguite con una spina di collaudo in tolleranza h6 del diametro nominale della pinza. La precisione va misurata ad una distanza L dalla pinza.
La precisione di concentricità influisce sulla qualità della lavorazione svolta e sulla vita dell'utensile.
La precisione di concentricità indicata è verificata serrando la pinza.

*Average of concentricity is tested each 120° at distance L and is valid only for nominal size of collet checked with a h6 pin.
Runout accuracy increases quality of work and life of tool.
For the best runout accuracy check tightening torque indicated in tab on page 349.*

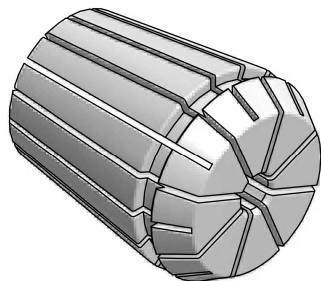
CORRETTO SERRAGGIO DELL'UTENSILE
CORRECT CLAMPING OF THE TOOL

L'utensile deve essere inserito nella pinza per tutta la lunghezza di presa.
L'errato posizionamento dell'utensile riduce la precisione e la rigidità e può deformare la sede della pinza.

*Tool must be inserted for total length of collet's bore.
Wrong positioning reduces precision and may damage collet's bore.*



PINZE STANDARD
STANDARD COLLETS



Articolo		D (mm)	D (in)	CAPACITÀ DI SERRAGGIO COLLAPSE
ERC8	4004E	1-5	/	-0,5mm
ERC11	4008E	1-7	1/16- 1/4	-0,5mm
ERC12	424E	1-7	/	-0,5mm /-1,0 mm
ERC16	426E	1-10	1/16- 1/32	-0,5mm /-1,0 mm
ERC20	428E	1-14	1/16- 1/2	-0,5mm /-1,0 mm
ERC25	430E	1-20	1/16- 5/8	-0,5mm /-1,0 mm
ERC32	470E	2-22	3/32- 3/4	-0,5mm /-1,0 mm
ERC40	472E	3-30	1/8- 1"	-1,0 mm
ERC50	477E	6-34	/	-1,0 mm
ERC60	494E	10-40	/	-2,0 mm

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY

↗ 0,008

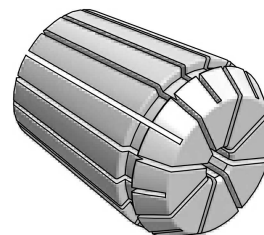
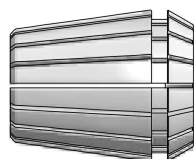
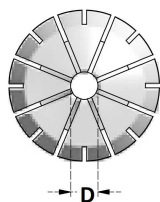
CARATTERISTICHE:

- Tagliate in 16 settori.
- Superficie finita con rugosità' rz 1,6 .

FEATURES:

- 16 slot design.
- Surface is finished rz 1,6

PINZE STANDARD - CLASSE 1 - ALESAGGI METRICI
STANDARD COLLETS - CLASS 1 - METRIC SIZES



Articolo	Range
ERC8.D1	1 ÷ 0,5
ERC8.D1,5	1,5 ÷ 1
ERC8.D2	2 ÷ 1,5
ERC8.D2,5	2,5 ÷ 2
ERC8.D3	3 ÷ 2,5
ERC8.D3,5	3,5 ÷ 3
ERC8.D4	4 ÷ 3,5
ERC8.D4,5	4,5 ÷ 4
ERC8.D5	5 ÷ 4,5

Articolo	Range
ERC11.D1	1 ÷ 0,5
ERC11.D1,5	1,5 ÷ 1
ERC11.D2	2 ÷ 1,5
ERC11.D2,5	2,5 ÷ 2
ERC11.D3	3 ÷ 2,5
ERC11.D3,5	3,5 ÷ 3
ERC11.D4	4 ÷ 3,5
ERC11.D4,5	4,5 ÷ 4
ERC11.D5	5 ÷ 4,5
ERC11.D5,5	5,5 ÷ 6
ERC11.D6	6 ÷ 5,5
ERC11.D6,5	6,5 ÷ 6
ERC11.D7	7 ÷ 6,5

Articolo	Range
ERC12.D1	1 ÷ 0,5
ERC12.D1,5	1,5 ÷ 1
ERC12.D2	2 ÷ 1,5
ERC12.D2,5	2,5 ÷ 2
ERC12.D3	3 ÷ 2,5
ERC12.D4	4 ÷ 3,5
ERC12.D5	5 ÷ 4,5
ERC12.D6	6 ÷ 5,5
ERC12.D7	7 ÷ 6,5

Articolo	Range
ERC16.D1	1 ÷ 0,5
ERC16.D2	2 ÷ 1,5
ERC16.D3	3 ÷ 2
ERC16.D4	4 ÷ 3
ERC16.D5	5 ÷ 4
ERC16.D6	6 ÷ 5
ERC16.D7	7 ÷ 6
ERC16.D8	8 ÷ 7
ERC16.D9	9 ÷ 8
ERC16.D10	10 ÷ 9

Articolo	Range
ERC20.D1	1 ÷ 0,5
ERC20.D2	2 ÷ 1,5
ERC20.D3	3 ÷ 2
ERC20.D4	4 ÷ 3
ERC20.D5	5 ÷ 4
ERC20.D6	6 ÷ 5
ERC20.D7	7 ÷ 6
ERC20.D8	8 ÷ 7
ERC20.D9	9 ÷ 8
ERC20.D10	10 ÷ 9
ERC20.D11	11 ÷ 10
ERC20.D12	12 ÷ 11
ERC20.D13	13 ÷ 12
ERC20.D14 **	14 ÷ 13,9

Articolo	Range
ERC25.D1	1 ÷ 0,5
ERC25.D2	2 ÷ 1,5
ERC25.D3	3 ÷ 2
ERC25.D4	4 ÷ 3
ERC25.D5	5 ÷ 4
ERC25.D6	6 ÷ 5
ERC25.D7	7 ÷ 6
ERC25.D8	8 ÷ 7
ERC25.D9	9 ÷ 8
ERC25.D10	10 ÷ 9
ERC25.D11	11 ÷ 10
ERC25.D12	12 ÷ 11
ERC25.D13	13 ÷ 12
ERC25.D14	14 ÷ 13
ERC25.D15	15 ÷ 14
ERC25.D16	16 ÷ 15
ERC25.D17 *	17 ÷ 16,9
ERC25.D18 *	18 ÷ 17,9
ERC25.D19 **	19 ÷ 18,9
ERC25.D20 **	20 ÷ 19,9

Articolo	Range
ERC32.D2	2 ÷ 1,5
ERC32.D3	3 ÷ 2
ERC32.D4	4 ÷ 3
ERC32.D5	5 ÷ 4
ERC32.D6	6 ÷ 5
ERC32.D7	7 ÷ 6
ERC32.D8	8 ÷ 7
ERC32.D9	9 ÷ 8
ERC32.D10	10 ÷ 9
ERC32.D11	11 ÷ 10
ERC32.D12	12 ÷ 11
ERC32.D13	13 ÷ 12
ERC32.D14	14 ÷ 13
ERC32.D15	15 ÷ 14
ERC32.D16	16 ÷ 15
ERC32.D17	17 ÷ 16
ERC32.D18	18 ÷ 17
ERC32.D19	19 ÷ 18
ERC32.D20	20 ÷ 19
ERC32.D21 *	21 ÷ 20,9
ERC32.D22 *	22 ÷ 21,9

* = DIAMETRI SPECIALI - CAPACITA' DI SERRAGGIO -0,1mm

* = SPECIAL DIAMETERS - COLLAPSE -0,1mm

** = LUNGHEZZA RIDOTTA

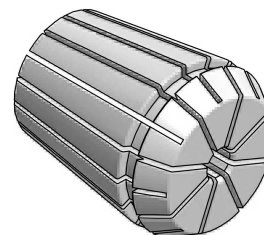
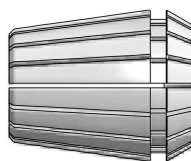
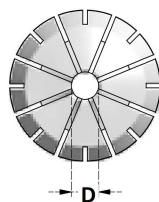
** = REDUCED LENGTH

Articolo	Length
ERC20.D14	28
ERC25.D19	31
ERC25.D20	28,5



PINZE STANDARD - CLASSE 1 - ALESAGGI METRICI
STANDARD COLLETS - CLASS 1 - METRIC SIZES

↗ 0,008



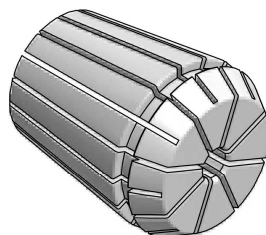
Articolo	Range
ERC40.D3	3 ÷ 2
ERC40.D4	4 ÷ 3
ERC40.D5	5 ÷ 4
ERC40.D6	6 ÷ 5
ERC40.D7	7 ÷ 6
ERC40.D8	8 ÷ 7
ERC40.D9	9 ÷ 8
ERC40.D10	10 ÷ 9
ERC40.D11	11 ÷ 10
ERC40.D12	12 ÷ 11
ERC40.D13	13 ÷ 12
ERC40.D14	14 ÷ 13
ERC40.D15	15 ÷ 14
ERC40.D16	16 ÷ 15
ERC40.D17	17 ÷ 16
ERC40.D18	18 ÷ 17
ERC40.D19	19 ÷ 18
ERC40.D20	20 ÷ 19
ERC40.D21	21 ÷ 20
ERC40.D22	22 ÷ 21
ERC40.D23	23 ÷ 22
ERC40.D24	24 ÷ 23
ERC40.D25	25 ÷ 24
ERC40.D26	26 ÷ 25
ERC40.D27	27 ÷ 26
ERC40.D28	28 ÷ 27
ERC40.D29	29 ÷ 28
ERC40.D30	30 ÷ 29

Articolo	Range
ERC50.D6	6 ÷ 5
ERC50.D7	7 ÷ 6
ERC50.D8	8 ÷ 7
ERC50.D9	9 ÷ 8
ERC50.D10	10 ÷ 9
ERC50.D11	11 ÷ 10
ERC50.D12	12 ÷ 11
ERC50.D13	13 ÷ 12
ERC50.D14	14 ÷ 13
ERC50.D15	15 ÷ 14
ERC50.D16	16 ÷ 15
ERC50.D17	17 ÷ 16
ERC50.D18	18 ÷ 17
ERC50.D19	19 ÷ 18
ERC50.D20	20 ÷ 19
ERC50.D21	21 ÷ 20
ERC50.D22	22 ÷ 21
ERC50.D23	23 ÷ 22
ERC50.D24	24 ÷ 23
ERC50.D25	25 ÷ 24
ERC50.D26	26 ÷ 25
ERC50.D27	27 ÷ 26
ERC50.D28	28 ÷ 27
ERC50.D29	29 ÷ 28
ERC50.D30	30 ÷ 29
ERC50.D31	31 ÷ 30
ERC50.D32	32 ÷ 31
ERC50.D33	33 ÷ 32
ERC50.D34	34 ÷ 33

Articolo	Range
ERC60.D10	10 ÷ 9
ERC60.D11	11 ÷ 10
ERC60.D12	12 ÷ 11
ERC60.D13	13 ÷ 12
ERC60.D14	14 ÷ 13
ERC60.D15	15 ÷ 14
ERC60.D16	16 ÷ 15
ERC60.D17	17 ÷ 16
ERC60.D18	18 ÷ 17
ERC60.D19	19 ÷ 18
ERC60.D20	20 ÷ 19
ERC60.D21	21 ÷ 20
ERC60.D22	22 ÷ 21
ERC60.D23	23 ÷ 22
ERC60.D24	24 ÷ 23
ERC60.D25	25 ÷ 24
ERC60.D26	26 ÷ 25
ERC60.D27	27 ÷ 26
ERC60.D28	28 ÷ 27
ERC60.D29	29 ÷ 28
ERC60.D30	30 ÷ 29
ERC60.D31	31 ÷ 30
ERC60.D32	32 ÷ 31
ERC60.D33	33 ÷ 32
ERC60.D34	34 ÷ 33
ERC60.D35	35 ÷ 34
ERC60.D36	36 ÷ 35
ERC60.D37	37 ÷ 36
ERC60.D38	38 ÷ 37
ERC60.D39	39 ÷ 38
ERC60.D40	40 ÷ 39

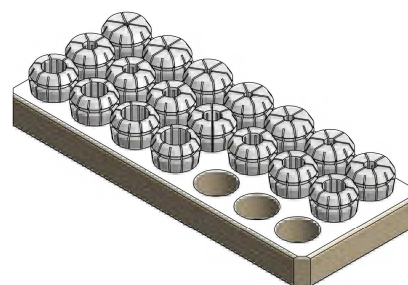
PINZE STANDARD - CLASSE 1 - ALESAGGI METRICI
STANDARD COLLETS - CLASS 1 - METRIC SIZES

0,008



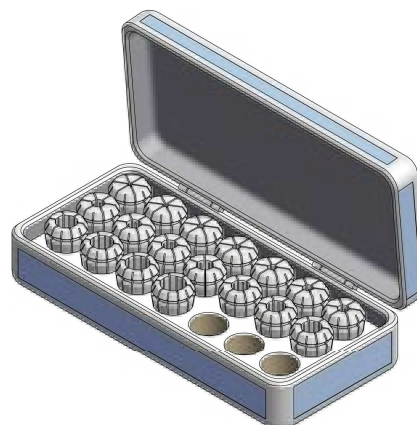
SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.ERC8-9	ERC8.D1 ÷ D5 x 0,5mm
TY.ERC11-7	ERC11.D1 ÷ D7 x 1mm
TY.ERC11-13	ERC11.D1 ÷ D7 x 0,5mm
TY.ERC16-10	ERC16.D1 ÷ D10 x 1mm
TY.ERC20-12	ERC20.D2 ÷ D13 x 1mm
TY.ERC25-6	ERC25.D4-6-8-10-12-16
TY.ERC25-15	ERC25.D2 ÷ D16 x 1mm
TY.ERC32-6	ERC32.D6-8-10-12-16-20
TY.ERC32-18	ERC32.D3 ÷ D20 x 1mm
TY.ERC40-7	ERC40.D6-8-10-12-16-20-25
TY.ERC40-23	ERC40.D4 ÷ D26 x 1mm
TY.ERC40-28	ERC40.D3 ÷ D30 x 1mm
TY.ERC50-12	ERC50.D12 ÷ D34 x 2mm



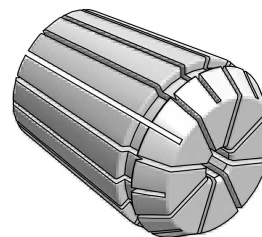
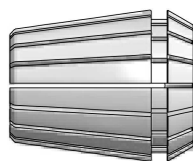
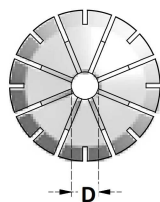
SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC8-9	ERC8.D1 ÷ D5 x 0,5mm
BX.ERC11-7	ERC11.D1 ÷ D7 x 1mm
BX.ERC11-13	ERC11.D1 ÷ D7 x 0,5mm
BX.ERC16-10	ERC16.D1 ÷ D10 x 1mm
BX.ERC20-12	ERC20.D2 ÷ D13 x 1mm
BX.ERC25-15	ERC25.D2 ÷ D16 x 1mm
BX.ERC32-18	ERC32.D3 ÷ D20 x 1mm
BX.ERC40-23	ERC40.D4 ÷ D26 x 1mm
BX.ERC40-28	ERC40.D3 ÷ D30 x 1mm
BX.ERC50-12	ERC50.D12 ÷ D34 x 2mm



PINZE STANDARD - CLASSE 1 - ALESAGGI IN POLLICI
STANDARD COLLETS - CLASS 1 - INCH SIZES

0,0004"



Articolo	Range
ERC11.D1/32	.043 - .021
ERC11.D1/16	.062 - .043
ERC11.D3/32	.093 - .054
ERC11.D1/8	.125 - .086
ERC11.D5/32	.156 - .117
ERC11.D3/16	.187 - .148
ERC11.D7/32	.218 - .179
ERC11.D1/4	.250 - .211

Articolo	Range
ERC16.D1/16	.062 - .043
ERC16.D3/32	.093 - .054
ERC16.D1/8	.125 - .086
ERC16.D5/32	.156 - .117
ERC16.D3/16	.187 - .148
ERC16.D7/32	.218 - .179
ERC16.D1/4	.250 - .211
ERC16.D9/32	.281 - .242
ERC16.D5/16	.312 - .273
ERC16.D11/32	.343 - .304
ERC16.D3/8	.375 - .336
ERC16.D13/32	.406 - .367

Articolo	Range
ERC20.D1/16	.062 - .043
ERC20.D3/32	.093 - .054
ERC20.D1/8	.125 - .086
ERC20.D5/32	.156 - .117
ERC20.D3/16	.187 - .148
ERC20.D7/32	.218 - .179
ERC20.D1/4	.250 - .211
ERC20.D9/32	.281 - .242
ERC20.D5/16	.312 - .273
ERC20.D11/32	.343 - .304
ERC20.D3/8	.375 - .336
ERC20.D13/32	.406 - .367
ERC20.D7/16	.437 - .398
ERC20.D15/32	.468 - .429
ERC20.D1/2	.500 - .461

Articolo	Range
ERC25.D1/16	.062 - .043
ERC25.D3/32	.093 - .054
ERC25.D1/8	.125 - .086
ERC25.D5/32	.156 - .117
ERC25.D3/16	.187 - .148
ERC25.D7/32	.218 - .179
ERC25.D1/4	.250 - .211
ERC25.D9/32	.281 - .242
ERC25.D5/16	.312 - .273
ERC25.D11/32	.343 - .304
ERC25.D3/8	.375 - .336
ERC25.D13/32	.406 - .367
ERC25.D7/16	.437 - .398
ERC25.D15/32	.468 - .429
ERC25.D1/2	.500 - .461
ERC25.D17/32	.531 - .492
ERC25.D9/16	.562 - .523
ERC25.D19/32	.593 - .554
ERC25.D5/8	.625 - .586

Articolo	Range
ERC32.D3/32	.093 - .054
ERC32.D1/8	.125 - .086
ERC32.D5/32	.156 - .117
ERC32.D3/16	.187 - .148
ERC32.D7/32	.218 - .179
ERC32.D1/4	.250 - .211
ERC32.D9/32	.281 - .242
ERC32.D5/16	.312 - .273
ERC32.D11/32	.343 - .304
ERC32.D3/8	.375 - .336
ERC32.D13/32	.406 - .367
ERC32.D7/16	.437 - .398
ERC32.D15/32	.468 - .429
ERC32.D1/2	.500 - .461
ERC32.D17/32	.531 - .492
ERC32.D9/16	.562 - .523
ERC32.D19/32	.593 - .554
ERC32.D5/8	.625 - .586
ERC32.D21/32	.656 - .617
ERC32.D11/16	.687 - .648
ERC32.D23/32	.718 - .679
ERC32.D3/4	.750 - .711
ERC32.D25/32	.781 - .742

Articolo	Range
ERC40.D1/8	.125 - .086
ERC40.D5/32	.156 - .117
ERC40.D3/16	.187 - .148
ERC40.D7/32	.218 - .179
ERC40.D1/4	.250 - .211
ERC40.D9/32	.281 - .242
ERC40.D5/16	.312 - .273
ERC40.D11/32	.343 - .304
ERC40.D3/8	.375 - .336
ERC40.D13/32	.406 - .367
ERC40.D7/16	.437 - .398
ERC40.D15/32	.468 - .429
ERC40.D1/2	.500 - .461
ERC40.D17/32	.531 - .492
ERC40.D9/16	.562 - .523
ERC40.D19/32	.593 - .554
ERC40.D5/8	.625 - .586
ERC40.D21/32	.656 - .617
ERC40.D11/16	.687 - .648
ERC40.D23/32	.718 - .679
ERC40.D3/4	.750 - .711
ERC40.D25/32	.781 - .742
ERC40.D13/16	.812 - .773
ERC40.D27/32	.843 - .804
ERC40.D7/8	.875 - .836
ERC40.D29/32	.906 - .867
ERC40.D15/16	.937 - .898
ERC40.D31/32	.969 - .930
ERC40.D1"	1.000 - .961



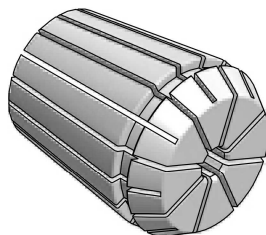
DIN ISO 15488 (DIN6499)

TY / BX

ERC P

PINZE STANDARD - CLASSE 1 - ALESAGGI IN POLLICI
STANDARD COLLETS - CLASS 1 - INCH SIZES

0,0004"



SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC11P-7	D1/16 - D3/32 - D1/8 - D5/32 - D3/16 - D7/32 - D1/4
BX.ERC16P-7	1/8 - 3/16 - 7/32 - 1/4 - 5/16 - 11/32 - 3/8
BX.ERC20P-10	D1/8 - D3/16 - D7/32 - D1/4 - D5/16 - D11/32 - D3/8 - D13/32 - D7/16 - D1/2
BX.ERC25P-12	1/8 - 3/16 - 7/32 - 1/4 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2 - 17/32 - 9/16
BX.ERC32P-11	D1/8 - D3/16 - D1/4 - D5/16 - D3/8 - D7/16 - D1/2 - D9/16 - D5/8 - D11/16 - D3/4
BX.ERC40P-15	D1/8 - D3/16 - D1/4 - D5/16 - D3/8 - D7/16 - D1/2 - D9/16 - D5/8 - D11/16 - D3/4 - D13/16 - D7/8 - D15/16 - D1"

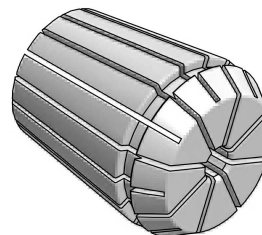
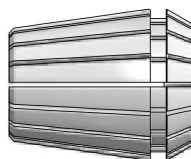
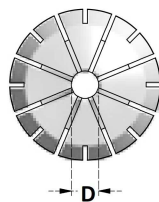


POLLICE FRAZIONATO	mm	POLLICE FRAZIONATO	mm	POLLICE FRAZIONATO	mm	POLLICE FRAZIONATO	mm	POLLICE FRAZIONATO	mm
1/64	0,397	27/64	10,716	53/64	21,034	1" - 15/64	31,353	1" - 41/64	41,672
1/32	0,794	7/16	11,113	27/32	21,431	1" - 1/4	31,750	1" - 21/32	42,069
3/64	1,191	29/64	11,509	55/64	21,828	1" - 17/64	32,147	1" - 43/64	42,466
1/16	1,588	15/32	11,906	7/8	22,225	1" - 9/32	32,544	1" - 11/16	42,863
5/64	1,984	31/64	12,303	57/64	22,622	1" - 19/64	32,941	1" - 45/64	43,259
3/32	2,381	1/2	12,700	29/32	23,109	1" - 5/16	33,338	1" - 23/32	43,656
7/64	2,778	33/64	13,097	59/64	23,416	1" - 21/64	33,734	1" - 47/64	44,053
1/8	3,175	17/32	13,494	15/16	23,813	1" - 11/32	34,131	1" - 3/4	44,450
9/64	3,572	35/64	13,891	61/64	24,209	1" - 23/64	34,528	1" - 49/64	44,847
5/32	3,969	9/16	14,288	31/32	24,606	1" - 3/8	34,925	1" - 25/32	45,244
11/64	4,366	37/64	14,684	63/64	25,003	1" - 25/64	35,322	1" - 51/64	45,641
3/16	4,763	19/32	15,081	1"	25,4	1" - 13/32	35,719	1" - 13/16	46,038
13/64	5,159	39/64	15,478	1" - 1/64	25,797	1" - 27/64	36,116	1" - 53/64	46,434
7/32	5,556	5/8	15,875	1" - 1/32	26,194	1" - 7/16	36,513	1" - 27/32	46,831
15/64	5,953	41/64	16,272	1" - 3/64	26,591	1" - 29/64	36,909	1" - 55/64	47,228
1/4	6,350	21/32	16,669	1" - 1/16	26,988	1" - 15/32	37,306	1" - 7/8	47,625
17/64	6,747	43/64	17,066	1" - 5/64	27,384	1" - 31/64	37,703	1" - 57/64	48,022
9/32	7,144	11/16	17,463	1" - 3/32	27,781	1" - 1/2	38,100	1" - 29/32	48,419
19/64	7,541	45/64	17,859	1" - 7/64	28,178	1" - 33/64	38,497	1" - 59/64	48,816
5/16	7,938	23/32	18,256	1" - 1/8	28,575	1" - 17/32	38,894	1" - 15/16	49,213
21/64	8,334	47/64	18,653	1" - 9/64	28,972	1" - 35/64	39,291	1" - 61/64	49,609
11/32	8,731	3/4	19,050	1" - 5/32	29,369	1" - 9/16	39,688	1" - 31/32	50,006
23/64	9,128	49/64	19,447	1" - 11/64	29,766	1" - 37/64	40,084	1" - 63/64	50,403
3/8	9,525	25/32	19,844	1" - 3/16	30,163	1" - 19/32	40,481	2"	50,8
25/64	9,922	51/64	20,241	1" - 13/64	30,559	1" - 39/64	40,878		
13/32	10,319	13/16	20,638	1" - 7/32	30,956	1" - 5/8	41,275		



PINZE STANDARD - CLASSE 2 - ALESAGGI METRICI
STANDARD COLLETS - CLASS 2 - METRIC SIZES

↗ 0,015



Articolo	Range
16ER.D1	1 ÷ 0,5
16ER.D1,5	1,5 ÷ 1
16ER.D2	2 ÷ 1
16ER.D2,5	2,5 ÷ 1,5
16ER.D3	3 ÷ 2
16ER.D3,5	3,5 ÷ 2,5
16ER.D4	4 ÷ 3
16ER.D4,5	4,5 ÷ 3,5
16ER.D5	5 ÷ 4
16ER.D5,5	5,5 ÷ 4,5
16ER.D6	6 ÷ 5
16ER.D6,5	6,5 ÷ 5,5
16ER.D7	7 ÷ 6
16ER.D7,5	7,5 ÷ 6,5
16ER.D8	8 ÷ 7
16ER.D8,5	8,5 ÷ 7,5
16ER.D9	9 ÷ 8
16ER.D9,5	9,5 ÷ 8,5
16ER.D10	10 ÷ 9

Articolo	Range
25ER.D1	1 ÷ 0,5
25ER.D1,5	1,5 ÷ 1
25ER.D2	2 ÷ 1
25ER.D2,5	2,5 ÷ 1,5
25ER.D3	3 ÷ 2
25ER.D3,5	3,5 ÷ 2,5
25ER.D4	4 ÷ 3
25ER.D4,5	4,5 ÷ 3,5
25ER.D5	5 ÷ 4
25ER.D5,5	5,5 ÷ 4,5
25ER.D6	6 ÷ 5
25ER.D6,5	6,5 ÷ 5,5
25ER.D7	7 ÷ 6
25ER.D7,5	7,5 ÷ 6,5
25ER.D8	8 ÷ 7
25ER.D8,5	8,5 ÷ 7,5
25ER.D9	9 ÷ 8
25ER.D9,5	9,5 ÷ 8,5
25ER.D10	10 ÷ 9
25ER.D10,5	10,5 ÷ 10
25ER.D11	11 ÷ 10,5
25ER.D11,5	11,5 ÷ 11
25ER.D12	12 ÷ 11,5
25ER.D12,5	12,5 ÷ 12
25ER.D13	13 ÷ 12,5
25ER.D13,5	13,5 ÷ 13
25ER.D14	14 ÷ 13,5
25ER.D14,5	14,5 ÷ 14
25ER.D15	15 ÷ 14,5
25ER.D15,5	15,5 ÷ 15
25ER.D16	16 ÷ 15,5

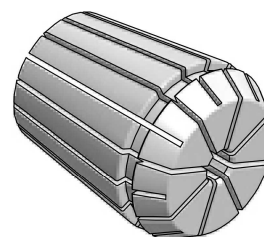
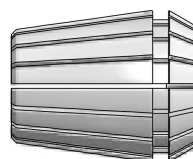
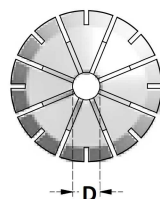
Articolo	Range
32ER.D2	2 ÷ 1
32ER.D2,5	2,5 ÷ 1,5
32ER.D3	3 ÷ 2
32ER.D3,5	3,5 ÷ 2,5
32ER.D4	4 ÷ 3
32ER.D4,5	4,5 ÷ 3,5
32ER.D5	5 ÷ 4
32ER.D5,5	5,5 ÷ 4,5
32ER.D6	6 ÷ 5
32ER.D6,5	6,5 ÷ 5,5
32ER.D7	7 ÷ 6
32ER.D7,5	7,5 ÷ 6,5
32ER.D8	8 ÷ 7
32ER.D8,5	8,5 ÷ 7,5
32ER.D9	9 ÷ 8
32ER.D9,5	9,5 ÷ 8,5
32ER.D10	10 ÷ 9
32ER.D10,5	10,5 ÷ 9,5
32ER.D11	11 ÷ 10
32ER.D11,5	11,5 ÷ 10,5
32ER.D12	12 ÷ 11
32ER.D12,5	12,5 ÷ 11,5
32ER.D13	13 ÷ 12
32ER.D13,5	13,5 ÷ 12,5
32ER.D14	14 ÷ 13
32ER.D14,5	14,5 ÷ 13,5
32ER.D15	15 ÷ 14
32ER.D15,5	15,5 ÷ 14,5
32ER.D16	16 ÷ 15
32ER.D16,5	16,5 ÷ 15,5
32ER.D17	17 ÷ 16
32ER.D17,5	17,5 ÷ 16,5
32ER.D18	18 ÷ 17
32ER.D18,5	18,5 ÷ 17,5
32ER.D19	19 ÷ 18
32ER.D19,5	19,5 ÷ 18,5
32ER.D20	20 ÷ 19

Articolo	Range
20ER.D1	1 ÷ 0,5
20ER.D1,5	1,5 ÷ 1
20ER.D2	2 ÷ 1
20ER.D2,5	2,5 ÷ 1,5
20ER.D3	3 ÷ 2
20ER.D3,5	3,5 ÷ 2,5
20ER.D4	4 ÷ 3
20ER.D4,5	4,5 ÷ 3,5
20ER.D5	5 ÷ 4
20ER.D5,5	5,5 ÷ 4,5
20ER.D6	6 ÷ 5
20ER.D6,5	6,5 ÷ 5,5
20ER.D7	7 ÷ 6
20ER.D7,5	7,5 ÷ 6,5
20ER.D8	8 ÷ 7
20ER.D8,5	8,5 ÷ 7,5
20ER.D9	9 ÷ 8
20ER.D9,5	9,5 ÷ 8,5
20ER.D10	10 ÷ 9
20ER.D10,5	10,5 ÷ 9,5
20ER.D11	11 ÷ 10
20ER.D11,5	11,5 ÷ 10,5
20ER.D12	12 ÷ 11
20ER.D12,5	12,5 ÷ 11,5
20ER.D13	13 ÷ 12



PINZE STANDARD - CLASSE 2 - ALESAGGI METRICI
STANDARD COLLETS - CLASS 2 - METRIC SIZES

↗ 0,015

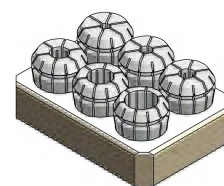


Articolo	Range
40ER.D3	3 ÷ 2
40ER.D3,5	3,5 ÷ 2,5
40ER.D4	4 ÷ 3
40ER.D4,5	4,5 ÷ 3,5
40ER.D5	5 ÷ 4
40ER.D5,5	5,5 ÷ 4,5
40ER.D6	6 ÷ 5
40ER.D6,5	6,5 ÷ 5,5
40ER.D7	7 ÷ 6
40ER.D7,5	7,5 ÷ 6,5
40ER.D8	8 ÷ 7
40ER.D8,5	8,5 ÷ 7,5
40ER.D9	9 ÷ 8
40ER.D9,5	9,5 ÷ 8,5
40ER.D10	10 ÷ 9
40ER.D10,5	10,5 ÷ 9,5
40ER.D11	11 ÷ 10
40ER.D11,5	11,5 ÷ 10,5
40ER.D12	12 ÷ 11
40ER.D12,5	12,5 ÷ 11,5
40ER.D13	13 ÷ 12
40ER.D13,5	13,5 ÷ 12,5
40ER.D14	14 ÷ 13
40ER.D14,5	14,5 ÷ 13,5

Articolo	Range
40ER.D15	15 ÷ 14
40ER.D15,5	15,5 ÷ 14,5
40ER.D16	16 ÷ 15
40ER.D16,5	16,5 ÷ 15,5
40ER.D17	17 ÷ 16
40ER.D17,5	17,5 ÷ 16,5
40ER.D18	18 ÷ 17
40ER.D18,5	18,5 ÷ 17,5
40ER.D19	19 ÷ 18
40ER.D19,5	19,5 ÷ 18,5
40ER.D20	20 ÷ 19
40ER.D20,5	20,5 ÷ 19,5
40ER.D21	21 ÷ 20
40ER.D21,5	21,5 ÷ 20,5
40ER.D22	22 ÷ 21
40ER.D22,5	22,5 ÷ 21,5
40ER.D23	23 ÷ 22
40ER.D23,5	23,5 ÷ 22,5
40ER.D24	24 ÷ 23
40ER.D24,5	24,5 ÷ 23,5
40ER.D25	25 ÷ 24
40ER.D25,5	25,5 ÷ 24,5
40ER.D26	26 ÷ 25

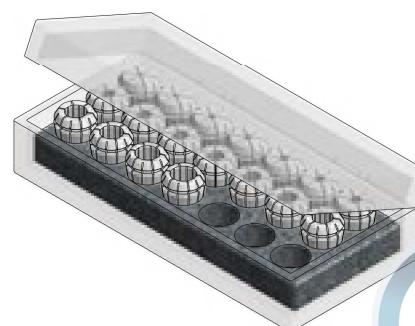
SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.16ER-5	16ER.D2-4-6-8-10
TY.20ER-6	20ER.D2-4-6-8-10-12
TY.25ER-6	25ER.D4-6-8-10-12-16
TY.32ER-6	32ER.D6-8-10-12-16-20
TY.40ER-7	40ER.D6-8-10-12-16-20-25

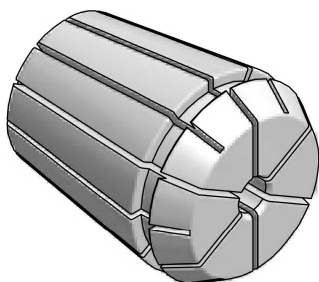


SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.16ER-10	16ER.D1 ÷ D10 x 1mm
BX.20ER-12	20ER.D2 ÷ D13 x 1mm
BX.25ER-15	25ER.D2 ÷ D16 x 1mm
BX.32ER-18	32ER.D3 ÷ D20 x 1mm
BX.40ER-23	40ER.D4 ÷ D26 x 1mm



PINZE DI ALTA PRECISIONE
HIGH PRECISION COLLETS



Articolo		D (mm)	CAPACITÀ DI SERRAGGIO COLLAPSE
ERC8HP	4004E	1-5	-0,5mm
ERC11HP	4008E	1-7	-0,5mm
ERC16HP	426E	1-10	-0,5mm
ERC20HP	428E	1-13	-0,5mm
ERC25HP	430E	1-16	-0,5mm
ERC32HP	470E	2-20	-0,5mm
ERC40HP	472E	3-26	-0,5mm

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY



Caratteristiche:

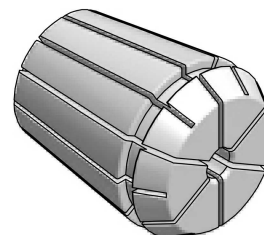
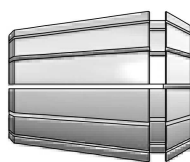
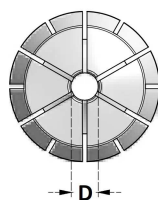
- Tagliate in 12 settori per garantire un'ottima ripetibilità di concentricità.
- **La precisione HP è garantita solo serrando l'utensile di diametro nominale.**
- Superficie finita con rugosità Rz 1,6.

Features:

- 12 slots design for the highest precision and repeatability.
- *HP precision is guaranteed only using tools with nominal size.*
- Surface finished Rz 1,6.

PINZE DI ALTA PRECISIONE
HIGH PRECISION COLLETS

↗ 0,005



Articolo
ERC8HP.D1
ERC8HP.D1,5
ERC8HP.D2
ERC8HP.D2,5
ERC8HP.D3
ERC8HP.D3,5
ERC8HP.D4
ERC8HP.D4,5
ERC8HP.D5

Articolo
ERC11HP.D1
ERC11HP.D1,5
ERC11HP.D2
ERC11HP.D2,5
ERC11HP.D3
ERC11HP.D3,5
ERC11HP.D4
ERC11HP.D4,5
ERC11HP.D5
ERC11HP.D5,5
ERC11HP.D6
ERC11HP.D6,5
ERC11HP.D7

Articolo
ERC16HP.D1
ERC16HP.D1,5
ERC16HP.D2
ERC16HP.D2,5
ERC16HP.D3
ERC16HP.D3,5
ERC16HP.D4
ERC16HP.D4,5
ERC16HP.D5
ERC16HP.D5,5
ERC16HP.D6
ERC16HP.D6,5
ERC16HP.D7
ERC16HP.D7,5
ERC16HP.D8
ERC16HP.D8,5
ERC16HP.D9
ERC16HP.D9,5
ERC16HP.D10

Articolo
ERC20HP.D1
ERC20HP.D1,5
ERC20HP.D2
ERC20HP.D2,5
ERC20HP.D3
ERC20HP.D3,5
ERC20HP.D4
ERC20HP.D4,5
ERC20HP.D5
ERC20HP.D5,5
ERC20HP.D6
ERC20HP.D6,5
ERC20HP.D7
ERC20HP.D7,5
ERC20HP.D8
ERC20HP.D8,5
ERC20HP.D9
ERC20HP.D9,5
ERC20HP.D10
ERC20HP.D10,5
ERC20HP.D11
ERC20HP.D11,5
ERC20HP.D12
ERC20HP.D12,5
ERC20HP.D13

Articolo
ERC25HP.D1
ERC25HP.D1,5
ERC25HP.D2
ERC25HP.D2,5
ERC25HP.D3
ERC25HP.D3,5
ERC25HP.D4
ERC25HP.D4,5
ERC25HP.D5
ERC25HP.D5,5
ERC25HP.D6
ERC25HP.D6,5
ERC25HP.D7
ERC25HP.D7,5
ERC25HP.D8
ERC25HP.D8,5
ERC25HP.D9
ERC25HP.D9,5
ERC25HP.D10
ERC25HP.D10,5
ERC25HP.D11
ERC25HP.D11,5
ERC25HP.D12
ERC25HP.D12,5
ERC25HP.D13
ERC25HP.D13,5
ERC25HP.D14
ERC25HP.D14,5
ERC25HP.D15
ERC25HP.D15,5
ERC25HP.D16



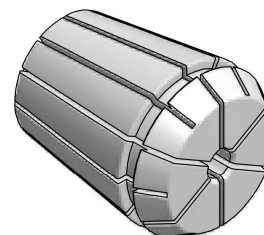
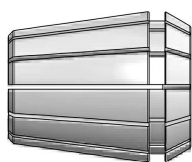
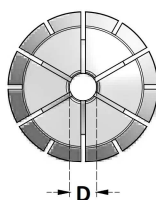
DIN ISO 15488 (DIN6499)

ERC

HP

PINZE DI ALTA PRECISIONE
HIGH PRECISION COLLETS

↗ 0,005



Articolo
ERC32HP.D2
ERC32HP.D2,5
ERC32HP.D3
ERC32HP.D3,5
ERC32HP.D4
ERC32HP.D4,5
ERC32HP.D5
ERC32HP.D5,5
ERC32HP.D6
ERC32HP.D6,5
ERC32HP.D7
ERC32HP.D7,5
ERC32HP.D8
ERC32HP.D8,5
ERC32HP.D9
ERC32HP.D9,5
ERC32HP.D10
ERC32HP.D10,5
ERC32HP.D11
ERC32HP.D11,5

Articolo
ERC32HP.D12
ERC32HP.D12,5
ERC32HP.D13
ERC32HP.D13,5
ERC32HP.D14
ERC32HP.D14,5
ERC32HP.D15
ERC32HP.D15,5
ERC32HP.D16
ERC32HP.D16,5
ERC32HP.D17
ERC32HP.D17,5
ERC32HP.D18
ERC32HP.D18,5
ERC32HP.D19
ERC32HP.D19,5
ERC32HP.D20

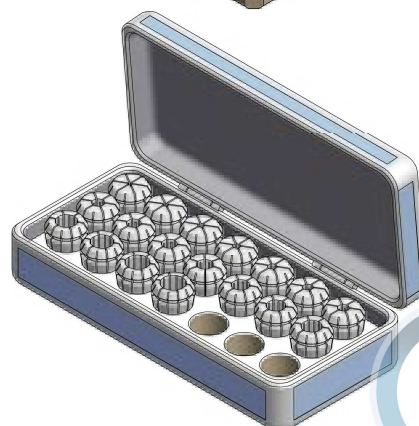
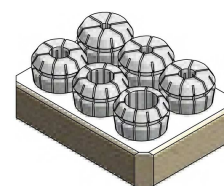
Articolo
ERC40HP.D3
ERC40HP.D4
ERC40HP.D5
ERC40HP.D6
ERC40HP.D7
ERC40HP.D8
ERC40HP.D9
ERC40HP.D10
ERC40HP.D11
ERC40HP.D12
ERC40HP.D13
ERC40HP.D14
ERC40HP.D15
ERC40HP.D16
ERC40HP.D17
ERC40HP.D18
ERC40HP.D19
ERC40HP.D20
ERC40HP.D21
ERC40HP.D22
ERC40HP.D23
ERC40HP.D24
ERC40HP.D25
ERC40HP.D26

SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

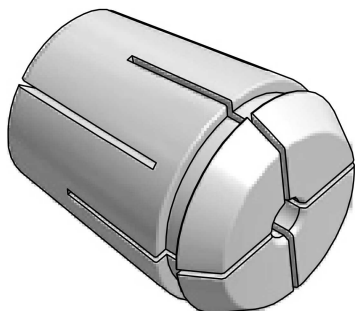
Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.ERC11HP-7	ERC11HP.D1 ÷ D7 x 1mm
TY.ERC16HP-5	ERC16HP.D2- D4- D6- D8- D10
TY.ERC20HP-6	ERC20HP.D2- D4- D6- D8- D10- D12
TY.ERC25HP-6	ERC25HP.D4-6-8-10-12-16
TY.ERC32HP-6	ERC32HP.D6-8-10-12-16-20
TY.ERC40HP-7	ERC40HP.D6-8-10-12-16-20-25

SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC8HP-9	ERC8HP.D1 ÷ D5 x 0,5mm
BX.ERC11HP-13	ERC11HP.D1 ÷ D7 x 0,5mm
BX.ERC16HP-10	ERC16HP.D1 ÷ D10 x 1mm
BX.ERC20HP-12	ERC20HP.D2 ÷ D13 x 1mm
BX.ERC25HP-15	ERC25HP.D2 ÷ D16 x 1mm
BX.ERC32HP-18	ERC32HP.D3 ÷ D20 x 1mm
BX.ERC40HP-23	ERC40HP.D4 ÷ D26 x 1mm



PINZE A TENUTA MECCANICA
SOLID SEALED COLLETS



Articolo	D (mm)	Capacità di serraggio Collapse
ERC16SSC	1-12	-0,1mm
ERC20SSC	3-14	-0,1mm
ERC25SSC	3-16	-0,1mm
ERC32SSC	3-22	-0,1mm
ERC40SSC	3-30	-0,1mm

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY

↗ 0,008

PRESSIONE MASSIMA AMMESSA
MAX PRESSURE

MAX
120bar

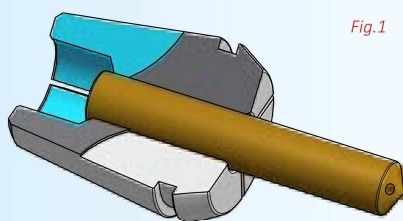


Fig.1

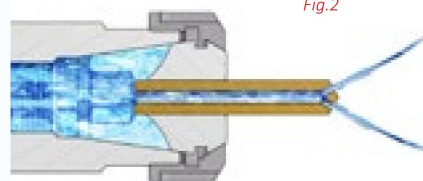


Fig.2

- La tenuta del liquido refrigerante è garantita dai tagli corti (Fig.1).
- Il refrigerante passa attraverso i fori di lubrificazione dell'utensile (Fig.2). Uscendo dai taglienti raffredda ed evacua i trucioli di lavorazione.
- La pressione massima ammessa è di 120 bar. Si raccomanda di impostare una pressione di esercizio proporzionale al diametro.
- Sono tagliate in 4+4 settori che garantiscono un'ottima rigidità e una elevata precisione di concentricità.
- Si possono montare solo in ghiera con estrazione eccentrica.
- La tenuta è garantita solo per utensili con gambo uguale al diametro nominale della pinza e inseriti per tutta la sua lunghezza di presa. (Fig.1 - Fig.3).

- Collets ERC-SSC are mechanical sealed by short rear slots (Fig.1).
- Coolant flows through cutting tool and remove chips (Fig.2).
- Coolant pressure up to 120 bar.
- 4+4 slots design allows a better runout accuracy and repeatability.
- Can be mounted only on nuts with eccentric extractor.
- Sealing is guaranteed only for tools with nominal diameter of collet inserted for total length of bore. (Fig.1 - Fig.3).

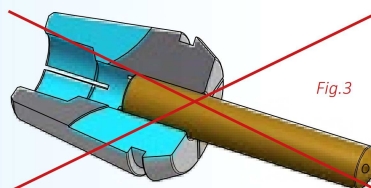


Fig.3

DIN ISO 15488 (DIN6499)

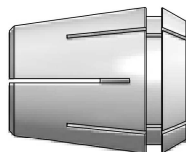
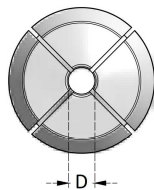
ERC

SSC

PINZE A TENUTA MECCANICA
SOLID SEALED COLLETS

MAX
120bar

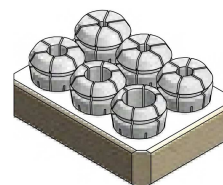
↗ 0,008



Articolo	Articolo	Articolo	Articolo
ERC16SSC.D1	ERC25SSC.D3	ERC32SSC.D3	ERC40SSC.D3
ERC16SSC.D2	ERC25SSC.D4	ERC32SSC.D4	ERC40SSC.D4
ERC16SSC.D3	ERC25SSC.D5	ERC32SSC.D5	ERC40SSC.D5
ERC16SSC.D4	ERC25SSC.D6	ERC32SSC.D6	ERC40SSC.D6
ERC16SSC.D5	ERC25SSC.D7	ERC32SSC.D7	ERC40SSC.D7
ERC16SSC.D6	ERC25SSC.D8	ERC32SSC.D8	ERC40SSC.D8
ERC16SSC.D7	ERC25SSC.D9	ERC32SSC.D9	ERC40SSC.D9
ERC16SSC.D8	ERC25SSC.D10	ERC32SSC.D10	ERC40SSC.D10
ERC16SSC.D9	ERC25SSC.D11	ERC32SSC.D11	ERC40SSC.D11
ERC16SSC.D10	ERC25SSC.D12	ERC32SSC.D12	ERC40SSC.D12
ERC16SSC.D11	ERC25SSC.D13	ERC32SSC.D13	ERC40SSC.D13
ERC16SSC.D12	ERC25SSC.D14	ERC32SSC.D14	ERC40SSC.D14
	ERC25SSC.D15	ERC32SSC.D15	ERC40SSC.D15
	ERC25SSC.D16	ERC32SSC.D16	ERC40SSC.D16
		ERC32SSC.D17	ERC40SSC.D17
		ERC32SSC.D18	ERC40SSC.D18
		ERC32SSC.D19	ERC40SSC.D19
		ERC32SSC.D20	ERC40SSC.D20
		ERC32SSC.D21	ERC40SSC.D21
		ERC32SSC.D22	ERC40SSC.D22
			ERC40SSC.D23
			ERC40SSC.D24
			ERC40SSC.D25
			ERC40SSC.D26
			ERC40SSC.D30
Articolo			
ERC20SSC.D3			
ERC20SSC.D4			
ERC20SSC.D5			
ERC20SSC.D6			
ERC20SSC.D7			
ERC20SSC.D8			
ERC20SSC.D9			
ERC20SSC.D10			
ERC20SSC.D11			
ERC20SSC.D12			
ERC20SSC.D13			
ERC20SSC.D14			

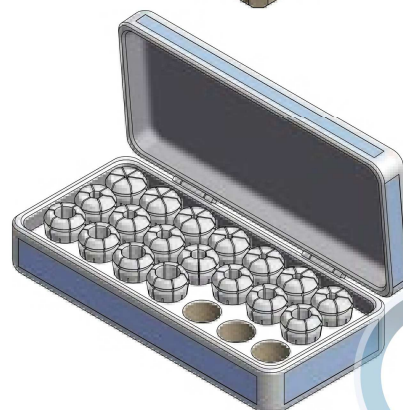
SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.ERC25SSC-6	ERC25SSC.D4-6-8-10-12-16
TY.ERC32SSC-6	ERC32SSC.D6-8-10-12-16-20
TY.ERC40SSC-7	ERC40SSC.D6-8-10-12-16-20-25



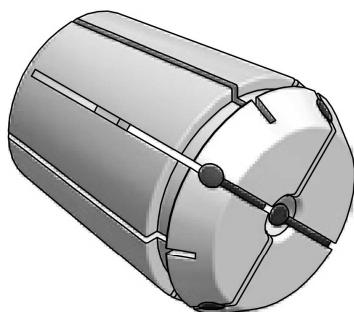
SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC16SSC-8	ERC16SSC.D3+10 x 1mm
BX.ERC20SSC-12	ERC20SSC.D3+14 x 1mm
BX.ERC25SSC-14	ERC25SSC.D3+16 x 1mm
BX.ERC32SSC-18	ERC32SSC.D3+20 x 1mm
BX.ERC40SSC-23	ERC40SSC.D4+26 x 1mm



PINZE A TENUTA CON INSERTI IN NEOPRENE

RUBBER SEALED COLLETS



Articolo	D (mm)	Capacità di serraggio Collapse
ERC11RF	3 ÷ 7	-0,1mm
ERC16RF	3 ÷ 10	-0,1mm
ERC20RF	3 ÷ 13	-0,1mm
ERC25RF	3 ÷ 16	-0,1mm
ERC32RF	3 ÷ 20	-0,1mm
ERC40RF	4 ÷ 26	-0,1mm
ERC50RF	10 ÷ 34	-0,1mm

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY

0,008

PRESSIONE MASSIMA AMMESSA
MAX PRESSURE

MAX
25 bar

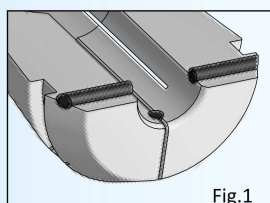


Fig.1

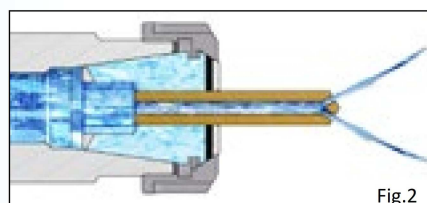


Fig.2

- La tenuta del liquido refrigerante è garantita dalle guarnizioni in neoprene inserite nel cono a 30° (Fig.1).
- Il refrigerante passa attraverso i fori di lubrificazione dell'utensile (Fig.2). Uscendo dai taglienti raffredda ed evacua i trucioli di lavorazione.
- La pressione massima ammessa è di 25 bar. Si raccomanda di impostare una pressione di esercizio proporzionale al diametro.
- Sono tagliate in 4+4 settori che garantiscono un'ottima rigidità e una elevata precisione di concentricità.
- Si possono montare solo in ghiera con estrazione eccentrica.
- **La tenuta è garantita solo per utensili con gambo uguale al diametro nominale della pinza e inseriti per tutta la sua lunghezza di presa.**
- Le frese con piano tipo weldon possono essere utilizzate solo se posizionate in modo che il piano resti al di sotto dei gommini per non favorire l'uscita del liquido (Fig.3).

- Collets ERC-RF are sealed by neoprene inserts in 30° taper (Fig.1)
- Coolant flows through cutting tool and remove chips (Fig.2).
- Coolant pressure up to 25 bar
- 4+4 slots design allows a better runout accuracy and repeatability.
- Can be mounted only on nuts with eccentric extractor.
- **Sealing is guaranteed only for tools with nominal diameter of collet inserted for total length of bore.**
- If tool has a flat it must be located under neoprene seals (Fig.3).

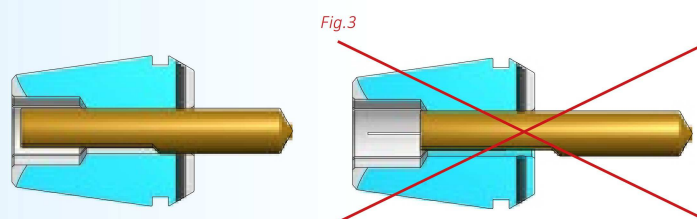
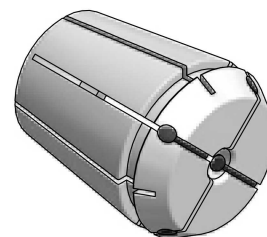
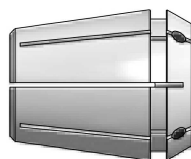
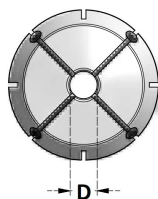


Fig.3

PINZE A TENUTA CON INSERTI IN NEOPRENE
RUBBER SEALED COLLETS

MAX
25 bar

↗ 0,008



Articolo	
ERC11RF.D3	
ERC11RF.D3,5	
ERC11RF.D4	
ERC11RF.D4,5	
ERC11RF.D5	
ERC11RF.D5,5	
ERC11RF.D6	
ERC11RF.D6,5	
ERC11RF.D7	
Articolo	
ERC16RF.D3	
ERC16RF.D3,5	
ERC16RF.D4	
ERC16RF.D4,5	
ERC16RF.D5	
ERC16RF.D5,5	
ERC16RF.D6	
ERC16RF.D6,5	
ERC16RF.D7	
ERC16RF.D7,5	
ERC16RF.D8	
ERC16RF.D8,5	
ERC16RF.D9	
ERC16RF.D9,5	
ERC16RF.D10	

Articolo
ERC20RF.D3
ERC20RF.D3,5
ERC20RF.D4
ERC20RF.D4,5
ERC20RF.D5
ERC20RF.D5,5
ERC20RF.D6
ERC20RF.D6,5
ERC20RF.D7
ERC20RF.D7,5
ERC20RF.D8
ERC20RF.D8,5
ERC20RF.D9
ERC20RF.D9,5
ERC20RF.D10
ERC20RF.D10,5
ERC20RF.D11
ERC20RF.D11,5
ERC20RF.D12
ERC20RF.D12,5
ERC20RF.D13

Articolo
ERC25RF.D3
ERC25RF.D3,5
ERC25RF.D4
ERC25RF.D4,5
ERC25RF.D5
ERC25RF.D5,5
ERC25RF.D6
ERC25RF.D6,5
ERC25RF.D7
ERC25RF.D7,5
ERC25RF.D8
ERC25RF.D8,5
ERC25RF.D9
ERC25RF.D9,5
ERC25RF.D10
ERC25RF.D10,5
ERC25RF.D11
ERC25RF.D11,5
ERC25RF.D12
ERC25RF.D12,5
ERC25RF.D13
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ERC25RF.D14
ERC25RF.D14,5
ERC25RF.D15
ERC25RF.D15,5
ERC25RF.D16

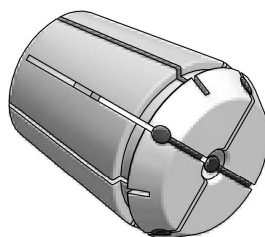
Articolo
ERC32RF.D3
ERC32RF.D3,5
ERC32RF.D4
ERC32RF.D4,5
ERC32RF.D5
ERC32RF.D5,5
ERC32RF.D6
ERC32RF.D6,5
ERC32RF.D7
ERC32RF.D7,5
ERC32RF.D8
ERC32RF.D8,5
ERC32RF.D9
ERC32RF.D9,5
ERC32RF.D10
ERC32RF.D10,5
ERC32RF.D11
ERC32RF.D11,5
ERC32RF.D12
ERC32RF.D12,5
ERC32RF.D13
ERC32RF.D13,5
ERC32RF.D14
ERC32RF.D14,5
ERC32RF.D15
ERC32RF.D15,5
ERC32RF.D16
ERC32RF.D16,5
ERC32RF.D17
ERC32RF.D17,5
ERC32RF.D18
ERC32RF.D18,5
ERC32RF.D19
ERC32RF.D19,5
ERC32RF.D20



PINZE A TENUTA CON INSERTI IN NEOPRENE
RUBBER SEALED COLLETS

MAX
25 bar

↗ 0,008



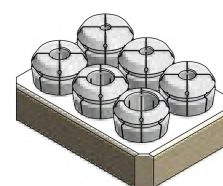
Articolo
ERC40RF.D4
ERC40RF.D4,5
ERC40RF.D5
ERC40RF.D5,5
ERC40RF.D6
ERC40RF.D6,5
ERC40RF.D7
ERC40RF.D7,5
ERC40RF.D8
ERC40RF.D8,5
ERC40RF.D9
ERC40RF.D9,5
ERC40RF.D10
ERC40RF.D10,5
ERC40RF.D11
ERC40RF.D11,5
ERC40RF.D12
ERC40RF.D12,5
ERC40RF.D13
ERC40RF.D13,5
ERC40RF.D14
ERC40RF.D14,5

Articolo
ERC40RF.D15
ERC40RF.D15,5
ERC40RF.D16
ERC40RF.D16,5
ERC40RF.D17
ERC40RF.D17,5
ERC40RF.D18
ERC40RF.D18,5
ERC40RF.D19
ERC40RF.D19,5
ERC40RF.D20
ERC40RF.D20,5
ERC40RF.D21
ERC40RF.D21,5
ERC40RF.D22
ERC40RF.D22,5
ERC40RF.D23
ERC40RF.D23,5
ERC40RF.D24
ERC40RF.D24,5
ERC40RF.D25
ERC40RF.D25,5
ERC40RF.D26

Articolo
ERC50RF.D10
ERC50RF.D12
ERC50RF.D14
ERC50RF.D16
ERC50RF.D18
ERC50RF.D20
ERC50RF.D22
ERC50RF.D24
ERC50RF.D25
ERC50RF.D26
ERC50RF.D28
ERC50RF.D30
ERC50RF.D32
ERC50RF.D34

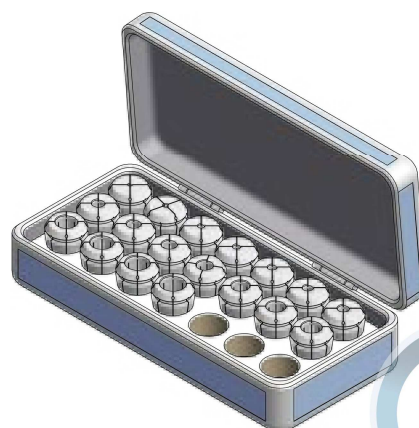
SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.ERC25RF-6	ERC25RF.D4-6-8-10-12-16
TY.ERC32RF-6	ERC32RF.D6-8-10-12-16-20
TY.ERC40RF-7	ERC40RF.D6-8-10-12-16-20-25

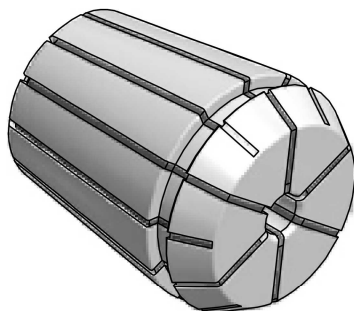


SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC11RF-9	ERC11RF.D3÷7 x 0,5mm
BX.ERC16RF-8	ERC16RF.D3÷10 x 1mm
BX.ERC20RF-11	ERC20RF.D3÷13 x 1mm
BX.ERC25RF-14	ERC25RF.D3÷16 x 1mm
BX.ERC32RF-18	ERC32RF.D3÷20 x 1mm
BX.ERC40RF-23	ERC40RF.D4÷26 x 1mm
BX.ERC50RF-12	ERC50RF.D12÷34 x 2mm



PINZE A TENUTA CON TAGLI VULCANIZZATI
COLLETS SEALED ALONG THE SLOTS



Articolo	D (mm)	Capacità di serraggio Collapse
ERC11IK	3 ÷ 7	-0,1mm
ERC16IK	3 ÷ 10	-0,1mm
ERC20IK	3 ÷ 13	-0,1mm
ERC25IK	3 ÷ 16	-0,1mm
ERC32IK	3 ÷ 20	-0,1mm

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY

0,008

PRESSIONE MASSIMA AMMESSA
MAX PRESSURE

MAX
25 bar

- La tenuta del liquido refrigerante è garantita dai tagli vulcanizzati con il neoprene (Fig.1).
 - Il refrigerante passa attraverso i fori di lubrificazione dell'utensile (Fig.2). Uscendo sui taglienti, raffredda ed evacua i trucioli di lavorazione.
 - La pressione massima ammessa è di 25 bar.
 - Si raccomanda di impostare una pressione di esercizio proporzionale al diametro.
 - Si possono montare solo in ghiera con estrazione eccentrica.
 - **La tenuta è garantita solo per utensili con gambo uguale al diametro nominale della pinza e inseriti per tutta la sua lunghezza di presa.**
- Collets ERC-IK are sealed by rubber inserts along slots (Fig.1).
- Coolant flows through cutting tool and remove chips (Fig.2).
- Coolant pressure up to 25 bar.
- Can be mounted only on nuts with eccentric extractor.
- Sealing is guaranteed only for tools with nominal diameter of collet inserted for total length of bore.

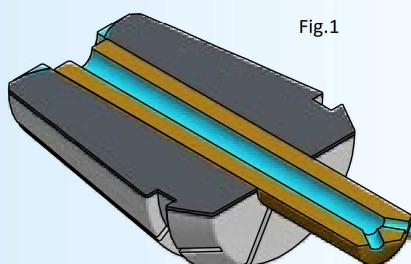


Fig.1

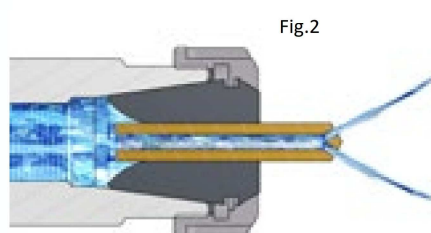
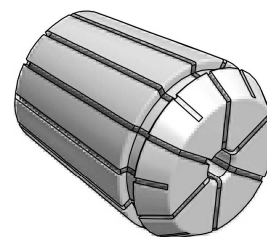
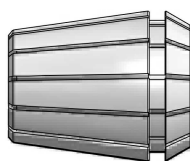
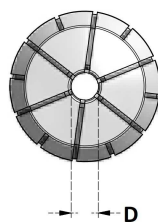


Fig.2

PINZE A TENUTA CON TAGLI VULCANIZZATI
COLLETS SEALED ALONG THE SLOTS

MAX
25 bar

↗ 0,008



Articolo
ERC11IK.D3
ERC11IK.D3,5
ERC11IK.D4
ERC11IK.D4,5
ERC11IK.D5
ERC11IK.D5,5
ERC11IK.D6
ERC11IK.D6,5
ERC11IK.D7

Articolo
ERC16IK.D3
ERC16IK.D4
ERC16IK.D5
ERC16IK.D6
ERC16IK.D7
ERC16IK.D8
ERC16IK.D9
ERC16IK.D10

Articolo
ERC20IK.D3
ERC20IK.D4
ERC20IK.D5
ERC20IK.D6
ERC20IK.D7
ERC20IK.D8
ERC20IK.D9
ERC20IK.D10
ERC20IK.D11
ERC20IK.D12
ERC20IK.D13

Articolo
ERC25IK.D3
ERC25IK.D4
ERC25IK.D5
ERC25IK.D6
ERC25IK.D7
ERC25IK.D8
ERC25IK.D9
ERC25IK.D10
ERC25IK.D11
ERC25IK.D12
ERC25IK.D13
ERC25IK.D14
ERC25IK.D15
ERC25IK.D16

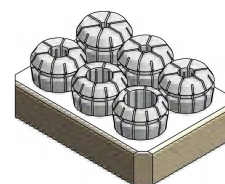
Articolo
ERC32IK.D3
ERC32IK.D4
ERC32IK.D5
ERC32IK.D6
ERC32IK.D7
ERC32IK.D8
ERC32IK.D9
ERC32IK.D10
ERC32IK.D11
ERC32IK.D12
ERC32IK.D13
ERC32IK.D14
ERC32IK.D15
ERC32IK.D16
ERC32IK.D17
ERC32IK.D18
ERC32IK.D19
ERC32IK.D20

SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.ERC25IK-6	ERC25IK.D4-6-8-10-12-16
TY.ERC32IK-6	ERC32IK.D6-8-10-12-16-20

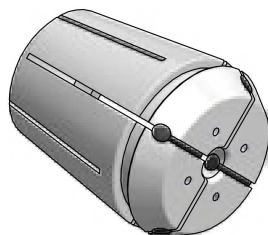
SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC11IK-9	ERC11IK.D3÷7 x 0,5mm
BX.ERC16IK-8	ERC16IK.D3÷10 x 1mm
BX.ERC20IK-11	ERC20IK.D3÷13 x 1mm
BX.ERC25IK-14	ERC25IK.D3÷16 x 1mm
BX.ERC32IK-18	ERC32IK.D3÷20 x 1mm



PINZE CON FORI DI LUBRIFICAZIONE

EXTERNALLY COOLED COLLETS



Articolo	D (mm)	Capacità di serraggio Collapse
ERC16JET	3 ÷ 7	-0,1mm
ERC20JET	3 ÷ 10	-0,1mm
ERC25JET	3 ÷ 14	-0,1mm
ERC32JET	3 ÷ 20	-0,1mm
ERC40JET	4 ÷ 26	-0,1mm
ERC50JET	6 ÷ 34	-0,1mm

ERRORE MEDIO DI CONCENTRICITA'

AVERAGE OF RUNOUT ACCURACY

↗ 0,008

PRESSIONE MASSIMA AMMESSA

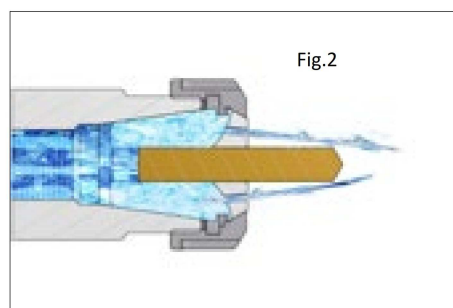
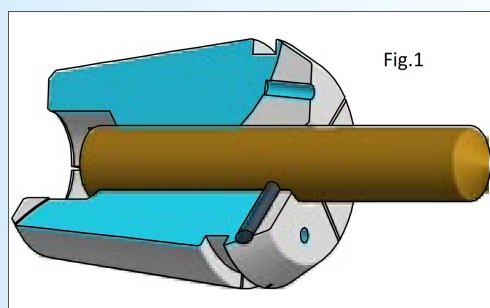
MAX PRESSURE

MAX
25 bar



- La tenuta del liquido refrigerante è garantita dalle guarnizioni in neoprene inserite nel cono a 30° (Fig.1).
- Il refrigerante passa attraverso i 4 fori frontali della pinza (Fig.2).
Il getto è indirizzato sui taglienti, raffredda ed evacua i trucioli di lavorazione.
- La pressione massima ammessa è di 25 bar.
- Si raccomanda di impostare una pressione di esercizio proporzionale al diametro.
- Sono tagliate in 4+4 settori che garantiscono un'ottima rigidità e una elevata precisione di concentricità.
- Si possono montare solo in ghiera con estrazione eccentrica.
- **La tenuta è garantita solo per gli utensili il cui gambo corrisponde al diametro nominale della pinza e che vengono inseriti per tutta la sua lunghezza di presa.**

- Collets are sealed by neoprene inserts in the 30° taper (Fig.1).
- 4 holes of ERC JET collets direct coolant flow to centre of cutting edges. Chips are easy removed (Fig.2).
- Coolant pressure up to 25 bar.
- 4+4 slots design allows a better runout accuracy and repeatability.
- Can be mounted only on nuts with eccentric extractor.
- **Sealing is guaranteed only for tools with nominal diameter of collet inserted on total length of bore.**



DIN ISO 15488 (DIN6499)

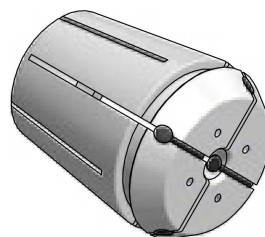
ERC

JET

PINZE CON FORI DI LUBRIFICAZIONE
EXTERNALLY COOLED COLLETS

MAX
25 bar

0,008



Articolo
ERC16JET.D3
ERC16JET.D4
ERC16JET.D5
ERC16JET.D6
ERC16JET.D7

Articolo
ERC20JET.D3
ERC20JET.D4
ERC20JET.D5
ERC20JET.D6
ERC20JET.D7
ERC20JET.D8
ERC20JET.D9
ERC20JET.D10

Articolo
ERC25JET.D3
ERC25JET.D4
ERC25JET.D5
ERC25JET.D6
ERC25JET.D7
ERC25JET.D8
ERC25JET.D9
ERC25JET.D10
ERC25JET.D11
ERC25JET.D12
ERC25JET.D13
ERC25JET.D14

Articolo
ERC32JET.D3
ERC32JET.D4
ERC32JET.D5
ERC32JET.D6
ERC32JET.D7
ERC32JET.D8
ERC32JET.D9
ERC32JET.D10
ERC32JET.D11
ERC32JET.D12
ERC32JET.D13
ERC32JET.D14
ERC32JET.D15
ERC32JET.D16
ERC32JET.D17
ERC32JET.D18
ERC32JET.D19
ERC32JET.D20

Articolo
ERC40JET.D4
ERC40JET.D5
ERC40JET.D6
ERC40JET.D7
ERC40JET.D8
ERC40JET.D9
ERC40JET.D10
ERC40JET.D11
ERC40JET.D12
ERC40JET.D13
ERC40JET.D14
ERC40JET.D15
ERC40JET.D16
ERC40JET.D17
ERC40JET.D18
ERC40JET.D19
ERC40JET.D20
ERC40JET.D21
ERC40JET.D22
ERC40JET.D23
ERC40JET.D24
ERC40JET.D25
ERC40JET.D26

Articolo
ERC50JET.D6
ERC50JET.D7
ERC50JET.D8
ERC50JET.D9
ERC50JET.D10
ERC50JET.D11
ERC50JET.D12
ERC50JET.D13
ERC50JET.D14
ERC50JET.D15
ERC50JET.D16
ERC50JET.D17
ERC50JET.D18
ERC50JET.D19
ERC50JET.D20
ERC50JET.D21
ERC50JET.D22
ERC50JET.D23
ERC50JET.D24
ERC50JET.D25
ERC50JET.D26
ERC50JET.D27
ERC50JET.D28
ERC50JET.D29
ERC50JET.D30
ERC50JET.D31
ERC50JET.D32
ERC50JET.D33
ERC50JET.D34



DIN ISO 15488 (DIN6499)

ERC

JET

PINZE CON FORI DI LUBRIFICAZIONE
EXTERNALLY COOLED COLLETS

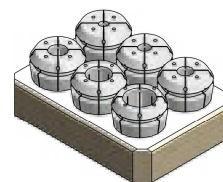
MAX
25 bar

↑ 0,008



SERIE DI PINZE SU BASE DI LEGNO
COLLETS SETS IN WOODEN TRAY

Articolo	PINZE NELLA SERIE COLLETS IN SET
TY.ERC25JET-5	ERC25JET.D4-6-8-10-12
TY.ERC32JET-6	ERC32JET.D6-8-10-12-16-20
TY.ERC40JET-7	ERC40JET.D6-8-10-12-16-20-25



SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC16JET-5	ERC16JET.D3 ÷ D7 x 1mm
BX.ERC20JET-8	ERC20JET.D3 ÷ D10 x 1mm
BX.ERC25JET-12	ERC25JET.D3 ÷ D14 x 1mm
BX.ERC32JET-18	ERC32JET.D3 ÷ D20 x 1mm
BX.ERC40JET-23	ERC40JET.D4 ÷ D26 x 1mm
BX.ERC50JET-12	ERC50JET.D12 ÷ D34 x 2mm



PINZE PORTAMASCHI CON QUADRO

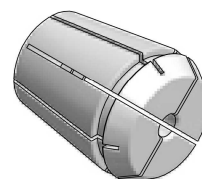
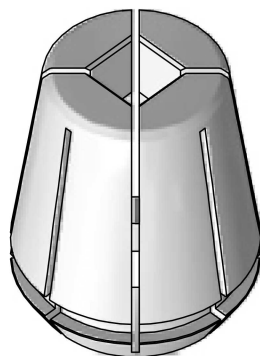
TAP COLLETS WITH SQUARE

STANDARD

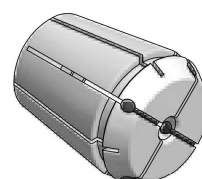
Articolo	D (mm)	MASCHI TAPS
ERC16M	3,5 ÷ 10	M3 ÷ M12
ERC20M	3,5 ÷ 12	M3 ÷ M16
ERC25M	3,5 ÷ 16	M3 ÷ M20
ERC32M	3,5 ÷ 20	M3 ÷ M27
ERC40M	6 ÷ 25	M5 ÷ M33

TENUTA CON INSERTI IN NEOPRENE RUBBER SEALED

Articolo	D (mm)	MASCHI TAPS
ERC16MRF	4 ÷ 8	M4 ÷ M10
ERC20MRF	4 ÷ 10	M4 ÷ M12
ERC25MRF	4 ÷ 12	M4 ÷ M16
ERC32MRF	4,5 ÷ 16	M4 ÷ M22
ERC40MRF	6 ÷ 20	M5 ÷ M27



PAG. 304



PAG. 305

- Utilizzate per la maschiatura sincronizzata con i maschi DIN371 - 374 - 376
- Con il quadro interno per il trascinamento del maschio.
- Senza compensazione assiale.
- Si possono montare solo in ghiera con estrazione eccentrica.
- **Bloccano solo il diametro nominale del gambo dei maschi con tolleranza h8.**
- Le caratteristiche di tenuta delle pinze MRF sono le stesse delle pinze RF illustrate a pagina 295

- Suitable for syncro tapping with DIN371 - 374 - 376 taps.
- With internal square drive for eliminate tap slippage.
- Without axial compensation.
- Can be mounted only on nuts with eccentric extractor.
- **Can clamp only the nominal size of tap shank with tolerance h8.**
- See page 295 for sealing features.

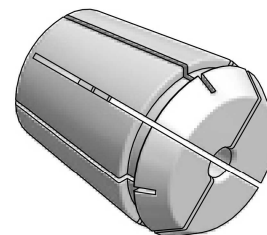
DIMENSIONI DEI GAMBI DEI MASCHI

TAP SHANKS DIMENSIONS

PAG. 374

PINZE PORTAMASCHI CON QUADRO

TAP COLLETS WITH SQUARE



Articolo	Q
ERC16M.D3,5	2,7
ERC16M.D4	3
ERC16M.D4,5	3,4
ERC16M.D5	4
ERC16M.D5,5	4,3
ERC16M.D6	4,9
ERC16M.D6,3	5
ERC16M.D7	5,5
ERC16M.D8	6,2
* ERC16M.D9	7
* ERC16M.D10	8

Articolo	Q
ERC20M.D3,5	2,7
ERC20M.D4	3
ERC20M.D4,5	3,4
ERC20M.D5	4
ERC20M.D5,5	4,3
ERC20M.D6	4,9
ERC20M.D6,3	5
ERC20M.D7	5,5
ERC20M.D8	6,2
ERC20M.D9	7
ERC20M.D10	8
* ERC20M.D11	9
* ERC20M.D12	9

Articolo	Q
ERC25M.D3,5	2,7
ERC25M.D4	3
ERC25M.D4,5	3,4
ERC25M.D5	4
ERC25M.D5,5	4,3
ERC25M.D6	4,9
ERC25M.D6,3	5
ERC25M.D7	5,5
ERC25M.D8	6,2
ERC25M.D9	7
ERC25M.D10	8
ERC25M.D11	9
ERC25M.D11,2	9
ERC25M.D12	9
ERC25M.D14	11
ERC25M.D16	12

Articolo	Q
ERC32M.D3,5	2,7
ERC32M.D4	3
ERC32M.D4,5	3,4
ERC32M.D5	4
ERC32M.D5,5	4,3
ERC32M.D6	4,9
ERC32M.D6,3	5
ERC32M.D7	5,5
ERC32M.D8	6,2
ERC32M.D9	7
ERC32M.D10	8
ERC32M.D11	9
ERC32M.D11,2	9
ERC32M.D12	9
ERC32M.D12,5	10
ERC32M.D14	11
ERC32M.D16	12
ERC32M.D18	14,5
ERC32M.D20	16

Articolo	Q
ERC40M.D6	4,9
ERC40M.D7	5,5
ERC40M.D8	6,2
ERC40M.D9	7
ERC40M.D10	8
ERC40M.D11	9
ERC40M.D12	9
ERC40M.D14	11
ERC40M.D16	12
ERC40M.D18	14,5
ERC40M.D20	16
ERC40M.D22	18
ERC40M.D25	20

Articolo	Q
ERC50M.D8	6,2
ERC50M.D9	7
ERC50M.D10	8
ERC50M.D11	9
ERC50M.D12	9
ERC50M.D14	11
ERC50M.D16	12
ERC50M.D18	14,5
ERC50M.D20	16
ERC50M.D22	18
ERC50M.D25	20
ERC50M.D28	22
ERC50M.D32	24

* Tagli posteriori allargati invece del quadro.
* Large slots instead of square drive.



DIMENSIONI DEI GAMBI DEI MASCHI

TAP SHANKS DIMENSIONS

PAG. 374

SERIE DI PINZE IN BOX

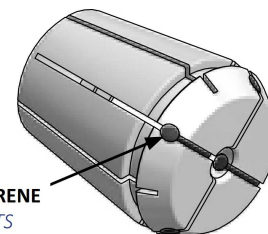
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ERC16M-11	ERC16M.D3,5-4- 4,5- 5- 5,5- 6- 6,3 - 7- 8- 9- 10
BX.ERC20M-13	ERC20M.D3,5-4- 4,5- 5- 5,5- 6- 6,3 - 7- 8- 9- 10- 11- 12
BX.ERC25M-16	ERC25M.D3,5-4- 4,5- 5- 5,5- 6- 6,3 - 7- 8- 9- 10- 11- 11,2 - 12- 14- 16
BX.ERC32M-19	ERC32M.D3,5-4- 4,5- 5- 5,5- 6- 6,3 - 7- 8- 9- 10- 11- 11,2- 12- 12,5 - 14- 16- 18- 20
BX.ERC40M-13	ERC40M.D6- 7- 8- 9- 10- 11- 12- 14- 16- 18- 20- 22- 25



PINZE PORTAMASCHI A TENUTA CON QUADRO
SEALED TAP COLLETS WITH SQUARE

MAX
25 bar



INSERTI IN NEOPRENE
NEOPRENE INSERTS

Articolo	Q
ERC16MRF.D4	3
ERC16MRF.D4,5	3,4
ERC16MRF.D5	4
ERC16MRF.D5,5	4,3
ERC16MRF.D6	4,9
ERC16MRF.D7	5,5
ERC16MRF.D8	6,2

Articolo	Q
ERC20MRF.D4	3
ERC20MRF.D4,5	3,4
ERC20MRF.D5	4
ERC20MRF.D5,5	4,3
ERC20MRF.D6	4,9
ERC20MRF.D7	5,5
ERC20MRF.D8	6,2
ERC20MRF.D9	7
ERC20MRF.D10	8

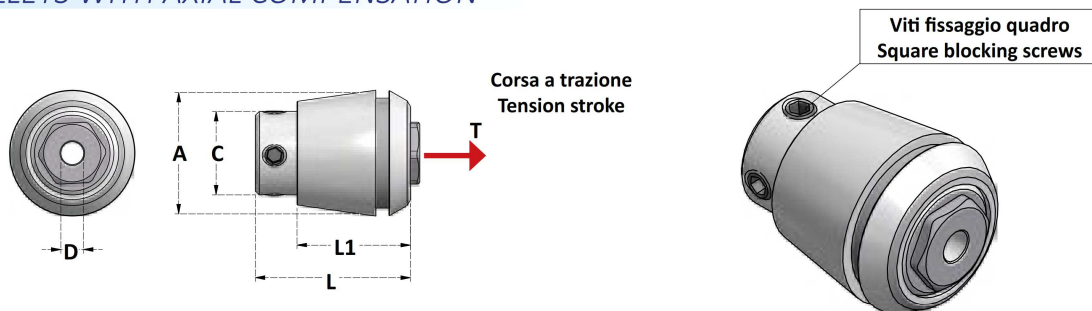
Articolo	Q
ERC25MRF.D4	3
ERC25MRF.D4,5	3,4
ERC25MRF.D5	4
ERC25MRF.D5,5	4,3
ERC25MRF.D6	4,9
ERC25MRF.D7	5,5
ERC25MRF.D8	6,2
ERC25MRF.D9	7
ERC25MRF.D10	8
ERC25MRF.D11	9
ERC25MRF.D12	9

Articolo	Q
ERC32MRF.D4,5	3,4
ERC32MRF.D5	4
ERC32MRF.D5,5	4,3
ERC32MRF.D6	4,9
ERC32MRF.D7	5,5
ERC32MRF.D8	6,2
ERC32MRF.D9	7
ERC32MRF.D10	8
ERC32MRF.D11	9
ERC32MRF.D12	9
ERC32MRF.D14	11
ERC32MRF.D16	12

Articolo	Q
ERC40MRF.D6	4,9
ERC40MRF.D7	5,5
ERC40MRF.D8	6,2
ERC40MRF.D9	7
ERC40MRF.D10	8
ERC40MRF.D11	9
ERC40MRF.D12	9
ERC40MRF.D14	11
ERC40MRF.D16	12
ERC40MRF.D18	14,5
ERC40MRF.D20	16

DIMENSIONI DEI GAMBI DEI MASCHI
TAP SHANKS DIMENSIONS
PAG. 374

PINZE PORTAMASCHI CON COMPENSAZIONE ASSIALE
TAPPING COLLETS WITH AXIAL COMPENSATION



Articolo		T	A	C	L1	L	D (mm)	MASCHI TAPS
ERC16FT	4033E	7	16	11	22	27	1,4 ÷ 6	M1 ÷ M6
ERC20FT	4284E	7	20	14	24	31	2,2 ÷ 8	M1 ÷ M8
ERC25FT	4285E	8	25	19	24,5	34	2,5 ÷ 10	M3,5 ÷ M10 (M12)
ERC32FT	4538E	10	32	23	31	43	4,5 ÷ 12,5	M4 ÷ M12 (M16)
ERC40FT	4717E	13	40	28	42	54	6 ÷ 16	M6 ÷ M16 (M20)

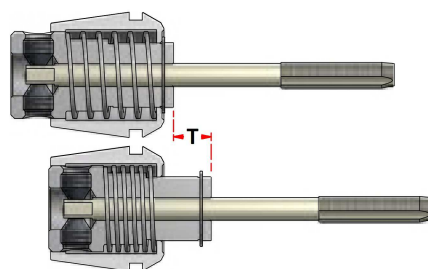
- Si montano su tutti i tipi di portapinze ER
- L'utilizzo del refrigerante attraverso la pinza è sconsigliato.
- Si possono montare solo in ghiera con estrazione eccentrica.

- Can be mounted on every ER collet chuck.
- Coolant through collet not recommended.
- Can be mounted only on nuts with eccentric extractor.

DIMENSIONI DEI GAMBI DEI MASCHI

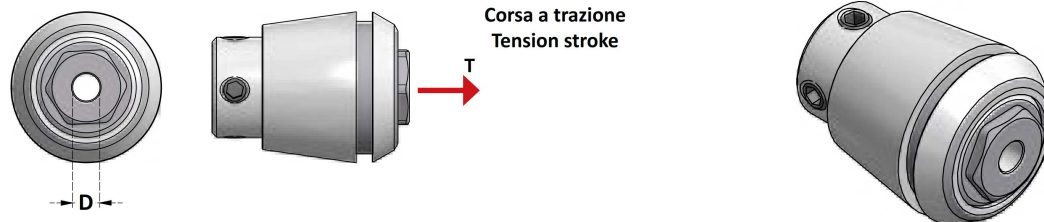
TAP SHANKS DIMENSIONS

PAG. 374



PINZE PORTAMASCHI CON COMPENSAZIONE ASSIALE

TAPPING COLLETS WITH AXIAL COMPENSATION



Articolo	T
ERC16FT.D1,4	7
ERC16FT.D1,6	7
ERC16FT.D1,8	7
ERC16FT.D2	7
ERC16FT.D2,2	7
ERC16FT.D2,24	7
ERC16FT.D2,5	7
ERC16FT.D2,8	7
ERC16FT.D3	7
ERC16FT.D3,15	7
ERC16FT.D3,5	7
ERC16FT.D4	7
ERC16FT.D4,5	7
ERC16FT.D5	7
ERC16FT.D5,5	7
ERC16FT.D6	7

Articolo	T
ERC20FT.D2,5	7
ERC20FT.D2,8	7
ERC20FT.D3	7
ERC20FT.D3,5	7
ERC20FT.D4	7
ERC20FT.D4,5	7
ERC20FT.D5	7
ERC20FT.D5,5	7
ERC20FT.D6	7
ERC20FT.D7	7

Articolo	T
ERC25FT.D2,5	8
ERC25FT.D2,8	8
ERC25FT.D3	8
ERC25FT.D3,5	8
ERC25FT.D4	8
ERC25FT.D4,5	8
ERC25FT.D5	8
ERC25FT.D5,5	8
ERC25FT.D6	8
ERC25FT.D7	8
ERC25FT.D8	8
ERC25FT.D9	8
ERC25FT.D10	8

Articolo	T
ERC32FT.D4	10
ERC32FT.D4,5	10
ERC32FT.D5	10
ERC32FT.D5,5	10
ERC32FT.D6	10
ERC32FT.D7	10
ERC32FT.D8	10
ERC32FT.D9	10
ERC32FT.D10	10
ERC32FT.D11	10
ERC32FT.D12	10
ERC32FT.D12,5	10

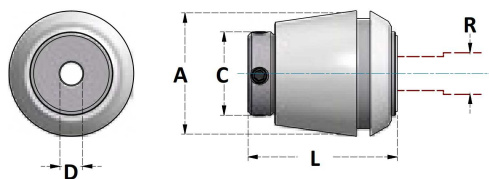
Articolo	T
ERC40FT.D6	13
ERC40FT.D7	13
ERC40FT.D8	13
ERC40FT.D9	13
ERC40FT.D10	13
ERC40FT.D11	13
ERC40FT.D12	13
ERC40FT.D12,5	13
ERC40FT.D14	13
ERC40FT.D16	13

DIMENSIONI DEI GAMBI DEI MASCHI

TAP SHANKS DIMENSIONS

PAG. 374

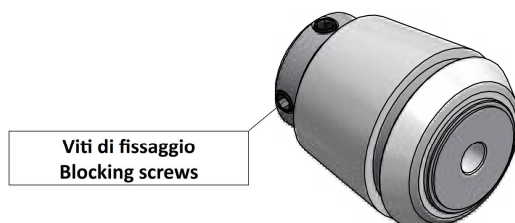
PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS



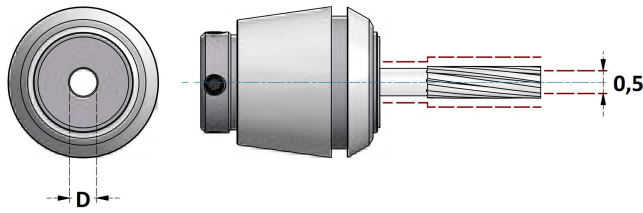
Articolo	R	C	A	L	D (mm)
ERC16PA	0,5	11	16	29	2 ÷ 7
ERC20PA	0,5	14	20	32	3 ÷ 8
ERC25PA	0,5	18,5	25	35	3 ÷ 10
ERC32PA	0,5	24	32	44	4 ÷ 14
ERC40PA	0,5	30	40	56	5 ÷ 16

- Si montano su tutti i tipi di mandrini portapinze ER.
- Sono adatte anche alla maschiatura rigida.
- Non utilizzare il refrigerante attraverso la pinza.
- Si possono montare solo in ghiera con estrazione eccentrica.

- Used with all types of ER collet chucks.
- Suitable also for tapping operations.
- Coolant through collet not recommended.
- Can be mounted only on nuts with eccentric extractor.



PINZE CON OSCILLAZIONE RADIALE PER ALESATORI
FLOATING COLLETS FOR REAMERS



Articolo
ERC16PA.D2
ERC16PA.D3
ERC16PA.D4
ERC16PA.D5
ERC16PA.D6
ERC16PA.D7

Articolo
ERC20PA.D3
ERC20PA.D4
ERC20PA.D5
ERC20PA.D6
ERC20PA.D7
ERC20PA.D8

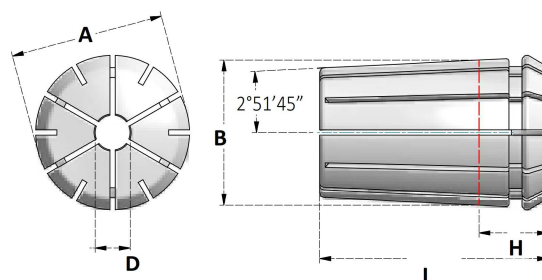
Articolo
ERC25PA.D3
ERC25PA.D4
ERC25PA.D5
ERC25PA.D6
ERC25PA.D7
ERC25PA.D8
ERC25PA.D9
ERC25PA.D10

Articolo
ERC32PA.D4
ERC32PA.D5
ERC32PA.D6
ERC32PA.D7
ERC32PA.D8
ERC32PA.D9
ERC32PA.D10
ERC32PA.D11
ERC32PA.D12
ERC32PA.D13
ERC32PA.D14

Articolo
ERC40PA.D5
ERC40PA.D6
ERC40PA.D7
ERC40PA.D8
ERC40PA.D9
ERC40PA.D10
ERC40PA.D11
ERC40PA.D12
ERC40PA.D13
ERC40PA.D14
ERC40PA.D15
ERC40PA.D16

DIN ISO 10897 (DIN6388)

PINZE DI SERRAGGIO EOC
EOC CLAMPING COLLETS



Tipo	EU	D	CAPACITÀ DI SERRAGGIO COLLAPSE	L	B	A	H
EOC16	415E	2÷16	0,5mm	40	22,65	25,5	15
EOC20	4541E	4÷20	0,5mm	45	27,4	29,8	16
EOC25	462E	2÷25	0,5mm	52	32,9	35,05	16
EOC32	467E	4÷32	0,5mm	60	41,3	43,7	17
EOC40	468E	16÷40	0,5mm	68	49,7	52,2	18

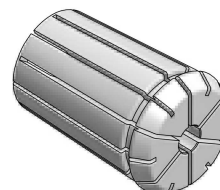
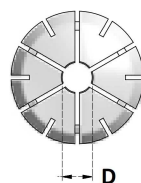
ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY

↗ **0,008**

- Il basso valore di conicità e la lunga presa dell'utensile conferiscono alle pinze EOC una forza di serraggio superiore, rendendole particolarmente adatte per le operazioni di fresatura gravose e dove sia richiesta la massima rigidità.
- Sono tagliate in 6+6 settori bilaterali per una capacità di serraggio fino a 0,5mm al di sotto del diametro nominale.
- Superficie finita con rugosità Rz 1,6.

- Higher clamping force due to collet taper and longer supported length of tool shank assure strong grip and big rigidity in heavy duty milling operations.
- Double side slots 6+6 allow a wide clamping range up to 0,5mm reduced from nominal size.
- Surface finished Rz 1,6.

PINZE DI SERRAGGIO EOC
EOC CLAMPING COLLETS



Articolo	Capacità Range
EOC16.D2	2 ÷ 1,5
EOC16.D2,5	2,5 ÷ 2
EOC16.D3	3 ÷ 2,5
EOC16.D3,5	3,5 ÷ 3
EOC16.D4	4 ÷ 3,5
EOC16.D4,5	4,5 ÷ 4
EOC16.D5	5 ÷ 4,5
EOC16.D5,5	5,5 ÷ 5
EOC16.D6	6 ÷ 5,5
EOC16.D6,5	6,5 ÷ 6
EOC16.D7	7 ÷ 6,5
EOC16.D7,5	7,5 ÷ 7
EOC16.D8	8 ÷ 7,5
EOC16.D8,5	8,5 ÷ 8
EOC16.D9	9 ÷ 8,5
EOC16.D9,5	9,5 ÷ 9
EOC16.D10	10 ÷ 9,5
EOC16.D10,5	10,5 ÷ 10
EOC16.D11	11 ÷ 10,5
EOC16.D11,5	11,5 ÷ 11
EOC16.D12	12 ÷ 11,5
EOC16.D12,5	12,5 ÷ 12
EOC16.D13	13 ÷ 12,5
EOC16.D13,5	13,5 ÷ 13
EOC16.D14	14 ÷ 13,5
EOC16.D14,5	14,5 ÷ 14
EOC16.D15	15 ÷ 14,5
EOC16.D15,5	15,5 ÷ 15
EOC16.D16	16 ÷ 15,5

Articolo	Capacità Range
EOC20.D2	2 ÷ 1,5
EOC20.D2,5	2,5 ÷ 2
EOC20.D3	3 ÷ 2,5
EOC20.D3,5	3,5 ÷ 3
EOC20.D4	4 ÷ 3,5
EOC20.D4,5	4,5 ÷ 4
EOC20.D5	5 ÷ 4,5
EOC20.D5,5	5,5 ÷ 5
EOC20.D6	6 ÷ 5,5
EOC20.D6,5	6,5 ÷ 6
EOC20.D7	7 ÷ 6,5
EOC20.D7,5	7,5 ÷ 7
EOC20.D8	8 ÷ 7,5
EOC20.D8,5	8,5 ÷ 8
EOC20.D9	9 ÷ 8,5
EOC20.D9,5	9,5 ÷ 9
EOC20.D10	10 ÷ 9,5
EOC20.D10,5	10,5 ÷ 10
EOC20.D11	11 ÷ 10,5
EOC20.D11,5	11,5 ÷ 11
EOC20.D12	12 ÷ 11,5
EOC20.D12,5	12,5 ÷ 12
EOC20.D13	13 ÷ 12,5
EOC20.D13,5	13,5 ÷ 13
EOC20.D14	14 ÷ 13,5
EOC20.D14,5	14,5 ÷ 14
EOC20.D15	15 ÷ 14,5
EOC20.D15,5	15,5 ÷ 15
EOC20.D16	16 ÷ 15,5
EOC20.D16,5	16,5 ÷ 16
EOC20.D17	17 ÷ 16,5
EOC20.D17,5	17,5 ÷ 17
EOC20.D18	18 ÷ 17,5
EOC20.D18,5	18,5 ÷ 18
EOC20.D19	19 ÷ 18,5
EOC20.D19,5	19,5 ÷ 19
EOC20.D20	20 ÷ 19,5

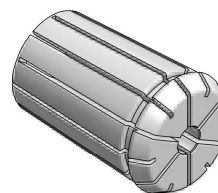
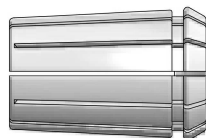
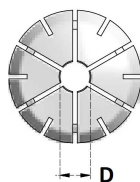
Articolo	Capacità Range
EOC25.D2	2 ÷ 1,5
EOC25.D2,5	2,5 ÷ 2
EOC25.D3	3 ÷ 2,5
EOC25.D3,5	3,5 ÷ 3
EOC25.D4	4 ÷ 3,5
EOC25.D4,5	4,5 ÷ 4
EOC25.D5	5 ÷ 4,5
EOC25.D5,5	5,5 ÷ 5
EOC25.D6	6 ÷ 5,5
EOC25.D6,5	6,5 ÷ 6
EOC25.D7	7 ÷ 6,5
EOC25.D7,5	7,5 ÷ 7
EOC25.D8	8 ÷ 7,5
EOC25.D8,5	8,5 ÷ 8
EOC25.D9	9 ÷ 8,5
EOC25.D9,5	9,5 ÷ 9
EOC25.D10	10 ÷ 9,5
EOC25.D10,5	10,5 ÷ 10
EOC25.D11	11 ÷ 10,5
EOC25.D11,5	11,5 ÷ 11
EOC25.D12	12 ÷ 11,5
EOC25.D12,5	12,5 ÷ 12
EOC25.D13	13 ÷ 12,5
EOC25.D13,5	13,5 ÷ 13
EOC25.D14	14 ÷ 13,5
EOC25.D14,5	14,5 ÷ 14
EOC25.D15	15 ÷ 14,5
EOC25.D15,5	15,5 ÷ 15
EOC25.D16	16 ÷ 15,5
EOC25.D16,5	16,5 ÷ 16
EOC25.D17	17 ÷ 16,5
EOC25.D17,5	17,5 ÷ 17
EOC25.D18	18 ÷ 17,5
EOC25.D18,5	18,5 ÷ 18
EOC25.D19	19 ÷ 18,5
EOC25.D19,5	19,5 ÷ 19
EOC25.D20	20 ÷ 19,5
EOC25.D20,5	20,5 ÷ 20
EOC25.D21	21 ÷ 20,5
EOC25.D21,5	21,5 ÷ 21
EOC25.D22	22 ÷ 21,5
EOC25.D22,5	22,5 ÷ 22
EOC25.D23	23 ÷ 22,5
EOC25.D23,5	23,5 ÷ 23
EOC25.D24	24 ÷ 23,5
EOC25.D24,5	24,5 ÷ 24
EOC25.D25	25 ÷ 24,5



DIN ISO 10897 (DIN6388)

EOC

PINZE DI SERRAGGIO EOC
EOC CLAMPING COLLETS



Articolo	Capacità Range
EOC32.D3	3 ÷ 2,5
EOC32.D3,5	3,5 ÷ 3
EOC32.D4	4 ÷ 3,5
EOC32.D4,5	4,5 ÷ 4
EOC32.D5	5 ÷ 4,5
EOC32.D5,5	5,5 ÷ 5
EOC32.D6	6 ÷ 5,5
EOC32.D6,5	6,5 ÷ 6
EOC32.D7	7 ÷ 6,5
EOC32.D7,5	7,5 ÷ 7
EOC32.D8	8 ÷ 7,5
EOC32.D8,5	8,5 ÷ 8
EOC32.D9	9 ÷ 8,5
EOC32.D9,5	9,5 ÷ 9
EOC32.D10	10 ÷ 9,5
EOC32.D10,5	10,5 ÷ 10
EOC32.D11	11 ÷ 10,5
EOC32.D11,5	11,5 ÷ 11
EOC32.D12	12 ÷ 11,5
EOC32.D12,5	12,5 ÷ 12
EOC32.D13	13 ÷ 12,5
EOC32.D13,5	13,5 ÷ 13
EOC32.D14	14 ÷ 13,5
EOC32.D14,5	14,5 ÷ 14
EOC32.D15	15 ÷ 14,5
EOC32.D15,5	15,5 ÷ 15
EOC32.D16	16 ÷ 15,5
EOC32.D16,5	16,5 ÷ 16
EOC32.D17	17 ÷ 16,5
EOC32.D17,5	17,5 ÷ 17
EOC32.D18	18 ÷ 17,5
EOC32.D18,5	18,5 ÷ 18
EOC32.D19	19 ÷ 18,5
EOC32.D19,5	19,5 ÷ 19

Articolo	Capacità Range
EOC32.D20	20 ÷ 19,5
EOC32.D20,5	20,5 ÷ 20
EOC32.D21	21 ÷ 20,5
EOC32.D21,5	21,5 ÷ 21
EOC32.D22	22 ÷ 21,5
EOC32.D22,5	22,5 ÷ 22
EOC32.D23	23 ÷ 22,5
EOC32.D23,5	23,5 ÷ 23
EOC32.D24	24 ÷ 23,5
EOC32.D24,5	24,5 ÷ 24
EOC32.D25	25 ÷ 24,5
EOC32.D25,5	25,5 ÷ 25
EOC32.D26	26 ÷ 25,5
EOC32.D26,5	26,5 ÷ 26
EOC32.D27	27 ÷ 26,5
EOC32.D27,5	27,5 ÷ 27
EOC32.D28	28 ÷ 27,5
EOC32.D28,5	28,5 ÷ 28
EOC32.D29	29 ÷ 28,5
EOC32.D29,5	29,5 ÷ 29
EOC32.D30	30 ÷ 29,5
EOC32.D30,5	30,5 ÷ 30
EOC32.D31	31 ÷ 30,5
EOC32.D31,5	31,5 ÷ 31
EOC32.D32	32 ÷ 31,5

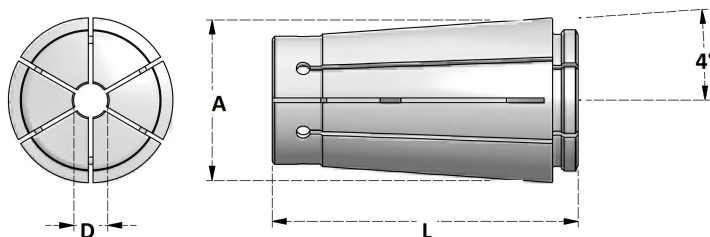
Articolo	Capacità Range
EOC40.D10	10 ÷ 9,5
EOC40.D11	11 ÷ 10,5
EOC40.D12	12 ÷ 11,5
EOC40.D13	13 ÷ 12,5
EOC40.D14	14 ÷ 13,5
EOC40.D15	15 ÷ 14,5
EOC40.D16	16 ÷ 15,5
EOC40.D17	17 ÷ 16,5
EOC40.D18	18 ÷ 17,5
EOC40.D19	19 ÷ 18,5
EOC40.D20	20 ÷ 19,5
EOC40.D21	21 ÷ 20,5
EOC40.D22	22 ÷ 21,5
EOC40.D23	23 ÷ 22,5
EOC40.D24	24 ÷ 23,5
EOC40.D25	25 ÷ 24,5
EOC40.D26	26 ÷ 25,5
EOC40.D27	27 ÷ 26,5
EOC40.D28	28 ÷ 27,5
EOC40.D29	29 ÷ 28,5
EOC40.D30	30 ÷ 29,5
EOC40.D31	31 ÷ 30,5
EOC40.D32	32 ÷ 31,5
EOC40.D33	33 ÷ 32,5
EOC40.D34	34 ÷ 33,5
EOC40.D35	35 ÷ 34,5
EOC40.D36	36 ÷ 35,5
EOC40.D37	37 ÷ 36,5
EOC40.D38	38 ÷ 37,5
EOC40.D39	39 ÷ 38,5
EOC40.D40	40 ÷ 39,5

SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.EOC16-15	EOC16.D2 ÷ D16 x 1mm
BX.EOC25-24	EOC25.D2 ÷ D25 x 1mm
BX.EOC32-30	EOC32.D3 ÷ D32 x 1mm



PINZE DI SERRAGGIO SKS
SKS CLAMPING COLLETS



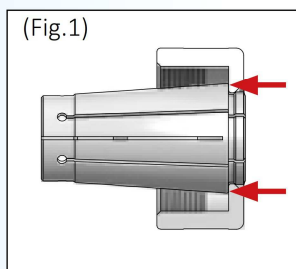
Tipo	D	L	A
SKS10	2÷10	32	15,013
SKS16	3÷16	46	23,939
SKS20	3÷20	54,3	28,5
SKS25	3÷25,4	58,2	35,029

ERRORE MEDIO DI CONCENTRICITA'
AVERAGE OF RUNOUT ACCURACY

0,005

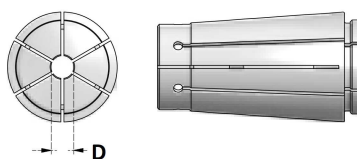
- La conicità a 4° e la lunghezza delle pinze SKS consentono di serrare gli utensili con una forza, una rigidità e una precisione elevate, rendendole particolarmente adatte per le lavorazioni alle alte velocità.
- La ghiera SKS agisce sul piano anteriore della pinza (Fig.1) riducendo l'errore di concentricità e rendendo la forza di serraggio uniforme su tutta la lunghezza di presa della pinza.
- L'estrazione con l'anello concentrico delle ghiera SKS aumenta il grado di equilibratura.
- Sono tagliate in 6+6 settori che permettono di serrare gli utensili con diametro inferiore di 0,5mm rispetto al diametro nominale.

- Small taper angle and clamping length increase force of SKS even at high speeds.
- SKS nut works axially on collet's flat (Fig.1) increasing precision and uniforming clamping force on whole length of bore.
- Concentric extraction of SKS nuts increases balancing.
- Cutted with 6+6 slots that allow a wide clamping range up to 0,5mm reduced from nominal size.



PINZE DI SERRAGGIO
CLAMPING COLLETS

➔ 0,005



Articolo	Capacità Range
SKS10.D2	2 ÷ 1,75
SKS10.D2,25	2,25 ÷ 2
SKS10.D2,5	2,5 ÷ 2,25
SKS10.D2,75	2,75 ÷ 2,5
SKS10.D3	3 ÷ 2,75
SKS10.D3,5	3,5 ÷ 3
SKS10.D4	4 ÷ 3,5
SKS10.D4,5	4,5 ÷ 4
SKS10.D5	5 ÷ 4,5
SKS10.D5,5	5,5 ÷ 5
SKS10.D6	6 ÷ 5,5
SKS10.D6,5	6,5 ÷ 6
SKS10.D7	7 ÷ 6,5
SKS10.D7,5	7,5 ÷ 7
SKS10.D8	8 ÷ 7,5
SKS10.D8,5	8,5 ÷ 8
SKS10.D9	9 ÷ 8,5
SKS10.D9,5	9,5 ÷ 9
SKS10.D10	10 ÷ 9,5

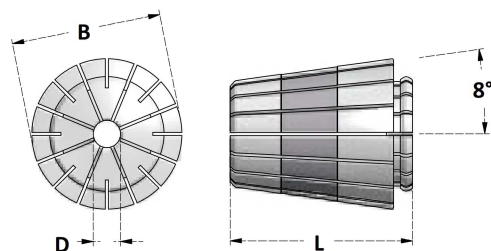
Articolo	Capacità Range
SKS16.D3	3 ÷ 2,75
SKS16.D3,5	3,5 ÷ 3
SKS16.D4	4 ÷ 3,5
SKS16.D4,5	4,5 ÷ 4
SKS16.D5	5 ÷ 4,5
SKS16.D5,5	5,5 ÷ 5
SKS16.D6	6 ÷ 5,5
SKS16.D6,5	6,5 ÷ 6
SKS16.D7	7 ÷ 6,5
SKS16.D7,5	7,5 ÷ 7
SKS16.D8	8 ÷ 7,5
SKS16.D8,5	8,5 ÷ 8
SKS16.D9	9 ÷ 8,5
SKS16.D9,5	9,5 ÷ 9
SKS16.D10	10 ÷ 9,5
SKS16.D10,5	10,5 ÷ 10
SKS16.D11	11 ÷ 10,5
SKS16.D11,5	11,5 ÷ 11
SKS16.D12	12 ÷ 11,5
SKS16.D12,5	12,5 ÷ 12
SKS16.D13	13 ÷ 12,5
SKS16.D13,5	13,5 ÷ 13
SKS16.D14	14 ÷ 13,5
SKS16.D14,5	14,5 ÷ 14
SKS16.D15	15 ÷ 14,5
SKS16.D15,5	15,5 ÷ 15
SKS16.D16	16 ÷ 15,5

Articolo	Capacità Range
SKS20.D3	3 ÷ 2,75
SKS20.D3,5	3,5 ÷ 3
SKS20.D4	4 ÷ 3,5
SKS20.D4,5	4,5 ÷ 4
SKS20.D5	5 ÷ 4,5
SKS20.D5,5	5,5 ÷ 5
SKS20.D6	6 ÷ 5,5
SKS20.D6,5	6,5 ÷ 6
SKS20.D7	7 ÷ 6,5
SKS20.D7,5	7,5 ÷ 7
SKS20.D8	8 ÷ 7,5
SKS20.D8,5	8,5 ÷ 8
SKS20.D9	9 ÷ 8,5
SKS20.D9,5	9,5 ÷ 9
SKS20.D10	10 ÷ 9,5
SKS20.D10,5	10,5 ÷ 10
SKS20.D11	11 ÷ 10,5
SKS20.D11,5	11,5 ÷ 11
SKS20.D12	12 ÷ 11,5
SKS20.D12,5	12,5 ÷ 12
SKS20.D13	13 ÷ 12,5
SKS20.D13,5	13,5 ÷ 13
SKS20.D14	14 ÷ 13,5
SKS20.D14,5	14,5 ÷ 14
SKS20.D15	15 ÷ 14,5
SKS20.D15,5	15,5 ÷ 15
SKS20.D16	16 ÷ 15,5
SKS20.D16,5	16,5 ÷ 16
SKS20.D17	17 ÷ 16,5
SKS20.D17,5	17,5 ÷ 17
SKS20.D18	18 ÷ 17,5
SKS20.D18,5	18,5 ÷ 18
SKS20.D19	19 ÷ 18,5
SKS20.D19,5	19,5 ÷ 19
SKS20.D20	20 ÷ 19,5

Articolo	Capacità Range
SKS25.D3	3 ÷ 2,75
SKS25.D3,5	3,5 ÷ 3
SKS25.D4	4 ÷ 3,5
SKS25.D4,5	4,5 ÷ 4
SKS25.D5	5 ÷ 4,5
SKS25.D5,5	5,5 ÷ 5
SKS25.D6	6 ÷ 5,5
SKS25.D6,5	6,5 ÷ 6
SKS25.D7	7 ÷ 6,5
SKS25.D7,5	7,5 ÷ 7
SKS25.D8	8 ÷ 7,5
SKS25.D8,5	8,5 ÷ 8
SKS25.D9	9 ÷ 8,5
SKS25.D9,5	9,5 ÷ 9
SKS25.D10	10 ÷ 9,5
SKS25.D10,5	10,5 ÷ 10
SKS25.D11	11 ÷ 10,5
SKS25.D11,5	11,5 ÷ 11
SKS25.D12	12 ÷ 11,5
SKS25.D12,5	12,5 ÷ 12
SKS25.D13	13 ÷ 12,5
SKS25.D13,5	13,5 ÷ 13
SKS25.D14	14 ÷ 13,5
SKS25.D14,5	14,5 ÷ 14
SKS25.D15	15 ÷ 14,5
SKS25.D15,5	15,5 ÷ 15
SKS25.D16	16 ÷ 15,5
SKS25.D16,5	16,5 ÷ 16
SKS25.D17	17 ÷ 16,5
SKS25.D17,5	17,5 ÷ 17
SKS25.D18	18 ÷ 17,5
SKS25.D18,5	18,5 ÷ 18
SKS25.D19	19 ÷ 18,5
SKS25.D19,5	19,5 ÷ 19
SKS25.D20	20 ÷ 19,5
SKS25.D20,5	20,5 ÷ 20
SKS25.D21	21 ÷ 20,5
SKS25.D21,5	21,5 ÷ 21
SKS25.D22	22 ÷ 21,5
SKS25.D22,5	22,5 ÷ 22
SKS25.D23	23 ÷ 22,5
SKS25.D23,5	23,5 ÷ 23
SKS25.D24	24 ÷ 23,5
SKS25.D24,5	24,5 ÷ 24
SKS25.D25	25 ÷ 24,5

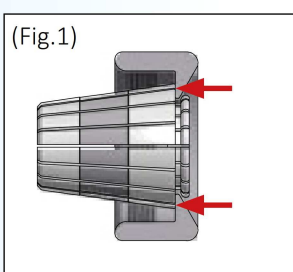
PINZE DI SERRAGGIO ETS

ETS CLAMPING COLLETS

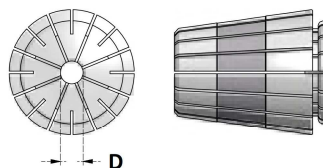


Tipo	D	L	B
ETS16	1÷10	24	17
ETS20	2÷13	30,5	21,10
ETS25	2÷16	34	26,10
ETS32	3÷20	40	33,10
ETS40	4÷26	45	41,10

- Si montano sui mandrini portapinze ISO DIN 15488 (ER-ERC) utilizzando l'apposita ghiera ETS.
- La ghiera chiudipinza del sistema ETS lavora sul piano anteriore della pinza (Fig.1) riducendo l'errore di concentricità e rendendo la forza di serraggio uniforme su tutta la lunghezza di presa della pinza.
- L'estrazione delle pinze ETS avviene con l'anello concentrico della ghiera aumentando il grado di equilibratura e rendendo queste pinze molto adatte per lavorazioni di precisione ad alta velocità.
- *Adaptable to all toolholders that mount ER/ERC collets by using ETS nuts.*
- *ETS nut works axially on collet's flat (Fig.1) increasing precision and uniforming clamping force on whole length of bore.*
- *Concentric extraction of ETS nuts increases balancing.*
- *Suitable for precision work on high speeds.*



PINZE DI SERRAGGIO ETS
ETS CLAMPING COLLETS



Articolo	Capacità Range
ETS16.D1	1 ÷ 0,5
ETS16.D2	2 ÷ 1
ETS16.D3	3 ÷ 2
ETS16.D4	4 ÷ 3
ETS16.D5	5 ÷ 4
ETS16.D6	6 ÷ 5
ETS16.D7	7 ÷ 6
ETS16.D8	8 ÷ 7
ETS16.D9	9 ÷ 8
ETS16.D10	10 ÷ 9

Articolo	Capacità Range
ETS20.D2	2 ÷ 1
ETS20.D3	3 ÷ 2
ETS20.D4	4 ÷ 3
ETS20.D5	5 ÷ 4
ETS20.D6	6 ÷ 5
ETS20.D7	7 ÷ 6
ETS20.D8	8 ÷ 7
ETS20.D9	9 ÷ 8
ETS20.D10	10 ÷ 9
ETS20.D11	11 ÷ 10
ETS20.D12	12 ÷ 11
ETS20.D13	13 ÷ 12

Articolo	Capacità Range
ETS25.D2	2 ÷ 1,5
ETS25.D3	3 ÷ 2
ETS25.D4	4 ÷ 3
ETS25.D5	5 ÷ 4
ETS25.D6	6 ÷ 5
ETS25.D7	7 ÷ 6
ETS25.D8	8 ÷ 7
ETS25.D9	9 ÷ 8
ETS25.D10	10 ÷ 9
ETS25.D11	11 ÷ 10
ETS25.D12	12 ÷ 11
ETS25.D13	13 ÷ 12
ETS25.D14	14 ÷ 13
ETS25.D15	15 ÷ 14
ETS25.D16	16 ÷ 15

Articolo	Capacità Range
ETS32.D3	3 ÷ 2
ETS32.D4	4 ÷ 3
ETS32.D5	5 ÷ 4
ETS32.D6	6 ÷ 5
ETS32.D7	7 ÷ 6
ETS32.D8	8 ÷ 7
ETS32.D9	9 ÷ 8
ETS32.D10	10 ÷ 9
ETS32.D11	11 ÷ 10
ETS32.D12	12 ÷ 11
ETS32.D13	13 ÷ 12
ETS32.D14	14 ÷ 13
ETS32.D15	15 ÷ 14
ETS32.D16	16 ÷ 15
ETS32.D17	17 ÷ 16
ETS32.D18	18 ÷ 17
ETS32.D19	19 ÷ 18
ETS32.D20	20 ÷ 19

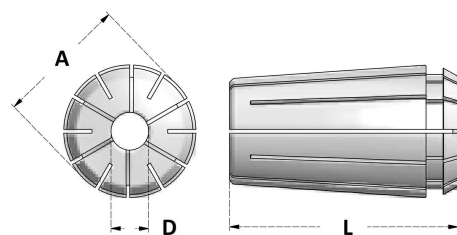
Articolo	Capacità Range
ETS40.D4	4 ÷ 3
ETS40.D5	5 ÷ 4
ETS40.D6	6 ÷ 5
ETS40.D7	7 ÷ 6
ETS40.D8	8 ÷ 7
ETS40.D9	9 ÷ 8
ETS40.D10	10 ÷ 9
ETS40.D11	11 ÷ 10
ETS40.D12	12 ÷ 11
ETS40.D13	13 ÷ 12
ETS40.D14	14 ÷ 13
ETS40.D15	15 ÷ 14
ETS40.D16	16 ÷ 15
ETS40.D17	17 ÷ 16
ETS40.D18	18 ÷ 17
ETS40.D19	19 ÷ 18
ETS40.D20	20 ÷ 19
ETS40.D21	21 ÷ 20
ETS40.D22	22 ÷ 21
ETS40.D23	23 ÷ 22
ETS40.D24	24 ÷ 23
ETS40.D25	25 ÷ 24
ETS40.D26	26 ÷ 25

SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ETS16-10	ETS16.D1 ÷ D10 x 1mm
BX.ETS20-12	ETS20.D2 ÷ D13 x 1mm
BX.ETS25-15	ETS25.D2 ÷ D16 x 1mm
BX.ETS32-18	ETS32.D3 ÷ D20 x 1mm
BX.ETS40-23	ETS40.D4 ÷ D26 x 1mm



PINZE DI SERRAGGIO ETG - ALESAGGI METRICI
ETG CLAMPING COLLETS - METRIC SIZES



Tipo	EU	D	L	A
ETG75	420E	3÷16	46,9	27
ETG100	464E	3÷25	60,32	35,02
ETG150	466E	4÷38	76,2	50,8

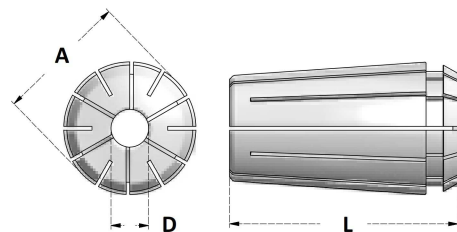
Articolo	Capacità Collapse
ETG75.D3	0,4mm
ETG75.D4	0,4mm
ETG75.D5	0,4mm
ETG75.D6	0,4mm
ETG75.D7	0,4mm
ETG75.D8	0,4mm
ETG75.D9	0,4mm
ETG75.D10	0,4mm
ETG75.D11	0,4mm
ETG75.D12	0,4mm
ETG75.D13	0,4mm
ETG75.D14	0,4mm
ETG75.D15	0,4mm
ETG75.D16	0,4mm

Articolo	Capacità Range
ETG100.D3	0,4mm
ETG100.D4	0,4mm
ETG100.D5	0,4mm
ETG100.D6	0,4mm
ETG100.D7	0,4mm
ETG100.D8	0,4mm
ETG100.D9	0,4mm
ETG100.D10	0,4mm
ETG100.D11	0,4mm
ETG100.D12	0,4mm
ETG100.D13	0,4mm
ETG100.D14	0,4mm
ETG100.D15	0,4mm
ETG100.D16	0,4mm
ETG100.D17	0,4mm
ETG100.D18	0,4mm
ETG100.D19	0,4mm
ETG100.D20	0,4mm
ETG100.D21	0,4mm
ETG100.D22	0,4mm
ETG100.D23	0,4mm
ETG100.D24	0,4mm
ETG100.D25	0,4mm

Articolo	Capacità Range
ETG150.D4	0,4mm
ETG150.D5	0,4mm
ETG150.D6	0,4mm
ETG150.D7	0,4mm
ETG150.D8	0,4mm
ETG150.D9	0,4mm
ETG150.D10	0,4mm
ETG150.D11	0,4mm
ETG150.D12	0,4mm
ETG150.D13	0,4mm
ETG150.D14	0,4mm
ETG150.D15	0,4mm
ETG150.D16	0,4mm
ETG150.D17	0,4mm
ETG150.D18	0,4mm
ETG150.D19	0,4mm
ETG150.D20	0,4mm
ETG150.D21	0,4mm
ETG150.D22	0,4mm
ETG150.D23	0,4mm
ETG150.D24	0,4mm
ETG150.D25	0,4mm
ETG150.D26	0,4mm
ETG150.D27	0,4mm
ETG150.D28	0,4mm
ETG150.D29	0,4mm
ETG150.D30	0,4mm
ETG150.D31	0,4mm
ETG150.D32	0,4mm
ETG150.D33	0,4mm
ETG150.D34	0,4mm
ETG150.D35	0,4mm
ETG150.D36	0,4mm
ETG150.D37	0,4mm
ETG150.D38	0,4mm

MANDRINI PORTAPINZE A RICHIESTA
COLLET CHUCKS ON REQUEST

PINZE DI SERRAGGIO ETG - ALESAGGI IN POLLICI
ETG CLAMPING COLLETS - FRACTIONAL SIZES



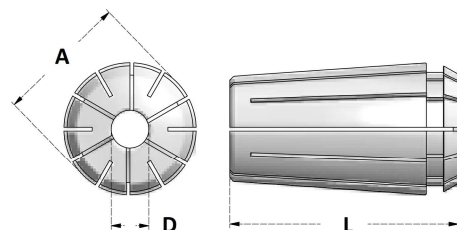
Tipo	EU	D	L	A
ETG75	420E	3/32÷3/4	1.844	1.062
ETG100	464E	3/32÷1"	2.375	1.379
ETG150	466E	1/2÷1 1/2	3.00	2.00

Articolo	Capacità Range
ETG75.D3/32	1/64"
ETG75.D7/64	1/64"
ETG75.D1/8	1/64"
ETG75.D9/64	1/64"
ETG75.D5/32	1/64"
ETG75.D11/64	1/64"
ETG75.D3/16	1/64"
ETG75.D13/64	1/64"
ETG75.D7/32	1/64"
ETG75.D15/64	1/64"
ETG75.D1/4	1/64"
ETG75.D17/64	1/64"
ETG75.D9/32	1/64"
ETG75.D19/64	1/64"
ETG75.D5/16	1/64"
ETG75.D21/64	1/64"
ETG75.D11/32	1/64"
ETG75.D23/64	1/64"
ETG75.D3/8	1/64"
ETG75.D25/64	1/64"
ETG75.D13/32	1/64"
ETG75.D27/64	1/64"
ETG75.D7/16	1/64"
ETG75.D29/64	1/64"
ETG75.D15/32	1/64"
ETG75.D31/64	1/64"
ETG75.D1/2	1/64"
ETG75.D33/64	1/64"
ETG75.D17/32	1/64"
ETG75.D35/64	1/64"
ETG75.D9/16	1/64"
ETG75.D37/64	1/64"
ETG75.D19/32	1/64"
ETG75.D39/64	1/64"
ETG75.D5/8	1/64"
ETG75.D41/64	1/64"
ETG75.D21/32	1/64"
ETG75.D43/64	1/64"
ETG75.D11/16	1/64"
ETG75.D45/64	1/64"
ETG75.D23/32	1/64"
ETG75.D47/64	1/64"
ETG75.D3/4	1/64"

Articolo	Capacità Range
ETG100.D3/32	1/64"
ETG100.D7/64	1/64"
ETG100.D1/8	1/64"
ETG100.D9/64	1/64"
ETG100.D5/32	1/64"
ETG100.D11/64	1/64"
ETG100.D3/16	1/64"
ETG100.D13/64	1/64"
ETG100.D7/32	1/64"
ETG100.D15/64	1/64"
ETG100.D1/4	1/64"
ETG100.D17/64	1/64"
ETG100.D9/32	1/64"
ETG100.D19/64	1/64"
ETG100.D5/16	1/64"
ETG100.D21/64	1/64"
ETG100.D11/32	1/64"
ETG100.D23/64	1/64"
ETG100.D3/8	1/64"
ETG100.D25/64	1/64"
ETG100.D13/32	1/64"
ETG100.D27/64	1/64"
ETG100.D7/16	1/64"
ETG100.D29/64	1/64"
ETG100.D15/32	1/64"
ETG100.D31/64	1/64"
ETG100.D1/2	1/64"
ETG100.D33/64	1/64"
ETG100.D17/32	1/64"
ETG100.D35/64	1/64"
ETG100.D9/16	1/64"
ETG100.D37/64	1/64"
ETG100.D19/32	1/64"
ETG100.D39/64	1/64"
ETG100.D5/8	1/64"
ETG100.D41/64	1/64"
ETG100.D21/32	1/64"
ETG100.D43/64	1/64"
ETG100.D11/16	1/64"
ETG100.D45/64	1/64"
ETG100.D23/32	1/64"
ETG100.D47/64	1/64"

Articolo	Capacità Range
ETG100.D3/4	1/64"
ETG100.D49/64	1/64"
ETG100.D25/32	1/64"
ETG100.D51/64	1/64"
ETG100.D13/16	1/64"
ETG100.D53/64	1/64"
ETG100.D27/32	1/64"
ETG100.D55/64	1/64"
ETG100.D7/8	1/64"
ETG100.D57/64	1/64"
ETG100.D29/32	1/64"
ETG100.D59/64	1/64"
ETG100.D15/16	1/64"
ETG100.D61/64	1/64"
ETG100.D31/32	1/64"
ETG100.D63/64	1/64"
ETG100.D1"	1/64"

PINZE DI SERRAGGIO ETG - ALESAGGI IN POLLICI
ETG CLAMPING COLLETS - FRACTIONAL SIZES



Tipo	EU	D	L	A
ETG75	420E	3/32÷3/4	1.844	1.062
ETG100	464E	3/32÷1"	2.375	1.379
ETG150	466E	1/2÷1 1/2	3.00	2.00

Articolo	Capacità Range
ETG150.D1/2	1/64"
ETG150.D33/64	1/64"
ETG150.D17/32	1/64"
ETG150.D35/64	1/64"
ETG150.D9/16	1/64"
ETG150.D37/64	1/64"
ETG150.D19/32	1/64"
ETG150.D39/64	1/64"
ETG150.D5/8	1/64"
ETG150.D41/64	1/64"
ETG150.D21/32	1/64"
ETG150.D43/64	1/64"
ETG150.D11/16	1/64"
ETG150.D45/64	1/64"
ETG150.D23/32	1/64"
ETG150.D47/64	1/64"
ETG150.D3/4	1/64"
ETG150.D49/64	1/64"
ETG150.D25/32	1/64"
ETG150.D51/64	1/64"
ETG150.D13/16	1/64"
ETG150.D53/64	1/64"
ETG150.D27/32	1/64"
ETG150.D55/64	1/64"
ETG150.D7/8	1/64"
ETG150.D57/64	1/64"
ETG150.D29/32	1/64"
ETG150.D59/64	1/64"
ETG150.D15/16	1/64"
ETG150.D61/64	1/64"
ETG150.D31/32	1/64"
ETG150.D63/64	1/64"
ETG150.D1"	1/64"

Articolo	Capacità Range
ETG150.D1-1/64	1/64"
ETG150.D1-1/32	1/64"
ETG150.D1-3/64	1/64"
ETG150.D1-1/16	1/64"
ETG150.D1-5/64	1/64"
ETG150.D1-3/32	1/64"
ETG150.D1-7/64	1/64"
ETG150.D1-1/8	1/64"
ETG150.D1-9/64	1/64"
ETG150.D1-5/32	1/64"
ETG150.D1-11/64	1/64"
ETG150.D1-3/16	1/64"
ETG150.D1-13/64	1/64"
ETG150.D1-7/32	1/64"
ETG150.D1-15/64	1/64"
ETG150.D1-1/4	1/64"
ETG150.D1-17/64	1/64"
ETG150.D1-9/32	1/64"
ETG150.D1-19/64	1/64"
ETG150.D1-5/16	1/64"
ETG150.D1-21/64	1/64"
ETG150.D1-11/32	1/64"
ETG150.D1-23/64	1/64"
ETG150.D1-3/8	1/64"
ETG150.D1-25/64	1/64"
ETG150.D1-13/32	1/64"
ETG150.D1-27/64	1/64"
ETG150.D1-7/16	1/64"
ETG150.D1-29/64	1/64"
ETG150.D1-15/32	1/64"
ETG150.D1-31/64	1/64"
ETG150.D1-1/2	1/64"

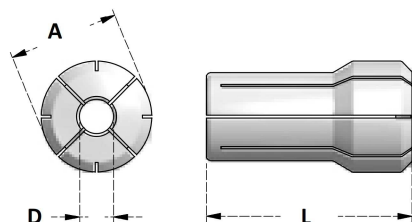
SERIE DI PINZE IN BOX
COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.ETG100P-15	ETG100.D1/8 ÷ D1" x16ths
BX.ETG100P-30	ETG100.D3/32 ÷ D1" x32nds



PINZE DI SERRAGGIO EDA - ALESAGGI METRICI

EDA CLAMPING COLLETS - METRIC SIZES



Tipo	EU	D	L	A
EDA300	416E	1,5÷6	25,4	9,52
EDA200	417E	1,5÷10	30	13,69
EDA100	418E	2÷14,5	36,3	19,53
EDA180	419E	2÷20	41,4	26,03

Articolo
EDA300.D1
EDA300.D1,5
EDA300.D2
EDA300.D2,5
EDA300.D3
EDA300.D3,5
EDA300.D4
EDA300.D4,5
EDA300.D5
EDA300.D5,5
EDA300.D6

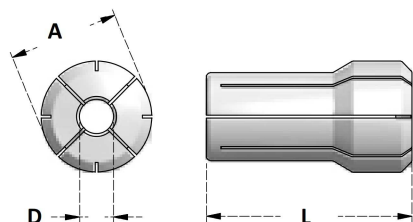
Articolo
EDA200.D1
EDA200.D1,5
EDA200.D2
EDA200.D2,5
EDA200.D3
EDA200.D3,5
EDA200.D4
EDA200.D4,5
EDA200.D5
EDA200.D5,5
EDA200.D6
EDA200.D6,5
EDA200.D7
EDA200.D7,5
EDA200.D8
EDA200.D8,5
EDA200.D9
EDA200.D9,5
EDA200.D10

Articolo
EDA100.D2
EDA100.D2,5
EDA100.D3
EDA100.D3,5
EDA100.D4
EDA100.D4,5
EDA100.D5
EDA100.D5,5
EDA100.D6
EDA100.D6,5
EDA100.D7
EDA100.D7,5
EDA100.D8
EDA100.D8,5
EDA100.D9
EDA100.D9,5
EDA100.D10
EDA100.D10,5
EDA100.D11
EDA100.D11,5
EDA100.D12
EDA100.D12,5
EDA100.D13
EDA100.D13,5
EDA100.D14
EDA100.D14,5

Articolo
EDA180.D2
EDA180.D2,5
EDA180.D3
EDA180.D3,5
EDA180.D4
EDA180.D4,5
EDA180.D5
EDA180.D5,5
EDA180.D6
EDA180.D6,5
EDA180.D7
EDA180.D7,5
EDA180.D8
EDA180.D8,5
EDA180.D9
EDA180.D9,5
EDA180.D10
EDA180.D10,5
EDA180.D11
EDA180.D11,5
EDA180.D12
EDA180.D12,5
EDA180.D13
EDA180.D13,5
EDA180.D14
EDA180.D14,5
EDA180.D15
EDA180.D15,5
EDA180.D16
EDA180.D16,5
EDA180.D17
EDA180.D17,5
EDA180.D18
EDA180.D18,5
EDA180.D19
EDA180.D19,5
EDA180.D20

PINZE DI SERRAGGIO EDA - ALESAGGI IN POLLICI

EDA CLAMPING COLLETS - FRACTIONAL SIZES



Tipo	EU	D	L	A
EDA300	416E	1/16 ÷ 1/4	1.00	.375
EDA200	417E	1/16 ÷ 3/8	1.19	.539
EDA100	418E	1/16 ÷ 9/16	1.44	.769
EDA180	419E	1/16 ÷ 49/64	1.63	1.035

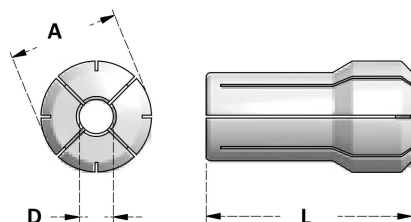
Articolo
EDA300.D1/32
EDA300.D3/64
EDA300.D1/16
EDA300.D5/64
EDA300.D3/32
EDA300.D7/64
EDA300.D1/8
EDA300.D9/64
EDA300.D5/32
EDA300.D11/64
EDA300.D3/16
EDA300.D13/64
EDA300.D7/32
EDA300.D15/64
EDA300.D1/4

Articolo
EDA200.D3/64
EDA200.D1/16
EDA200.D5/64
EDA200.D3/32
EDA200.D7/64
EDA200.D1/8
EDA200.D9/64
EDA200.D5/32
EDA200.D11/64
EDA200.D3/16
EDA200.D13/64
EDA200.D7/32
EDA200.D15/64
EDA200.D1/4
EDA200.D17/64
EDA200.D9/32
EDA200.D19/64
EDA200.D5/16
EDA200.D21/64
EDA200.D11/32
EDA200.D23/64
EDA200.D3/8
EDA200.D25/64

Articolo
EDA100.D3/64
EDA100.D1/16
EDA100.D5/64
EDA100.D3/32
EDA100.D7/64
EDA100.D1/8
EDA100.D9/64
EDA100.D5/32
EDA100.D11/64
EDA100.D3/16
EDA100.D13/64
EDA100.D7/32
EDA100.D15/64
EDA100.D1/4
EDA100.D17/64
EDA100.D9/32
EDA100.D19/64
EDA100.D5/16
EDA100.D21/64
EDA100.D11/32
EDA100.D23/64
EDA100.D3/8
EDA100.D25/64
EDA100.D13/32
EDA100.D27/64
EDA100.D7/16
EDA100.D29/64
EDA100.D15/32
EDA100.D31/64
EDA100.D1/2
EDA100.D33/64
EDA100.D17/32
EDA100.D35/64
EDA100.D9/16

PINZE DI SERRAGGIO EDA - ALESAGGI IN POLLICI

EDA CLAMPING COLLETS - FRACTIONAL SIZES



Tipo	EU	D	L	A
EDA300	416E	1/16 ÷ 1/4	1.00	.375
EDA200	417E	1/16 ÷ 3/8	1.19	.539
EDA100	418E	1/16 ÷ 9/16	1.44	.769
EDA180	419E	1/16 ÷ 49/64	1.63	1.035

Articolo
EDA180.D3/64
EDA180.D1/16
EDA180.D5/64
EDA180.D3/32
EDA180.D7/64
EDA180.D1/8
EDA180.D9/64
EDA180.D5/32
EDA180.D11/64
EDA180.D3/16
EDA180.D13/64
EDA180.D7/32
EDA180.D15/64
EDA180.D1/4
EDA180.D17/64
EDA180.D9/32
EDA180.D19/64
EDA180.D5/16
EDA180.D21/64
EDA180.D11/32
EDA180.D23/64
EDA180.D3/8
EDA180.D25/64
EDA180.D13/32
EDA180.D27/64
EDA180.D7/16
EDA180.D29/64
EDA180.D15/32
EDA180.D31/64

Articolo
EDA180.D1/2
EDA180.D33/64
EDA180.D17/32
EDA180.D35/64
EDA180.D9/16
EDA180.D37/64
EDA180.D19/32
EDA180.D39/64
EDA180.D5/8
EDA180.D41/64
EDA180.D21/32
EDA180.D43/64
EDA180.D11/16
EDA180.D45/64
EDA180.D23/32
EDA180.D47/64
EDA180.D3/4
EDA180.D49/64

SERIE DI PINZE IN BOX COLLETS SETS IN BOX

Articolo	PINZE NELLA SERIE COLLETS IN SET
BX.EDA300P-5	EDA300P.D1/8 ÷ D1/4 x32nds
BX.EDA300P-9	EDA300P.D1/8 ÷ D1/4 x64ths
BX.EDA200P-9	EDA200P.D1/8 ÷ D3/8 x32nds
BX.EDA200P-17	EDA200P.D1/8 ÷ D3/8 x64ths
BX.EDA100P-11	EDA100P.D1/4 ÷ D9/16 x32nds
BX.EDA100P-21	EDA100P.D1/4 ÷ D9/16 x64ths
BX.EDA180P-17	EDA180P.D1/4 ÷ D3/4 x32nds
BX.EDA180P-30	EDA180P.D1/4 ÷ D3/4 x64ths

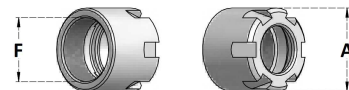
GHIERE CHIUDIPINZA ER CON FILETTATURA MINI DESTRA

ER CLAMPING NUTS WITH MINI RIGHT THREAD

GHIERE ER MINI - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

MINI ER NUTS - ECCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G8M	12	M10x0,75	5÷6	CH8M	CD8M
G11M	16	M13x0,75	7÷17	CH11M	CD11M
G16M	22	M19x1	12÷24	CH16M	CD16M
G20M	28	M24x1	16÷28	CH20M	CD20M
G25M	35	M30x1	22÷32	CH25M	CD25M



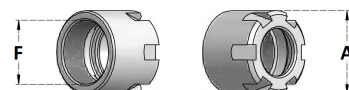
Chiusura con chiave per ghiera mini.
Closing with wrench for mini nuts.

GHIERE ER MINI CONCENTRICHE - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

MINI CONCENTRIC ER NUTS - CONCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G16WDM	22	M19x1	12÷24	CH16M	CD16M
G20WDM	28	M24x1	16÷28	CH20M	CD20M
G25WDM	35	M30x1	22÷32	CH25M	CD25M

Solo per pinze STANDARD e HP - Only for STANDARD and HP collets

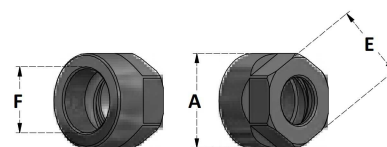


Maggiore equilibratura.
Chiusura con chiave per ghiera mini.
Better balancing.
Closing with wrench for mini nuts.

GHIERE ER MINI ESAGONALI - ESTRAZIONE ECCENTRICA - PIANI PER IL SERRAGGIO

MINI HEXAGONAL ER NUTS - ECCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	A	E	F	Nm	CH1	CH2
G11MSE	16	14	M13x0,75	7÷17	CH.E14	CD.E14
G16MSE	25	22	M19x1	12÷24	CH.E22	CD.E22
G20MSE	30	27	M24x1	16÷28	CH.E27	CD.E27
G25MSE	37	34	M30x1	22÷32	CH.E34	CD.E34



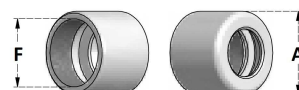
Chiusura con chiave a forchetta.
Closing with open-end wrench.

GHIERE ER MINI SENZA TACCHE - ESTRAZIONE ECCENTRICA - SERRAGGIO SENZA TACCHE

MINI NOTCH-FREE ER NUTS - ECCENTRIC EXTRACTOR - NOTCH-FREE CLAMPING

Articolo	A	F	Nm	CH1	CH2
G8NFM	12	M10x0,75	5÷6	CR8M	CD8NFM
G11NFM	16	M13x0,75	7÷17	CR11M	CD11NFM
G16NFM	22	M19x1	12÷24	CR16M	CD16NFM
G20NFM	28	M24x1	16÷28	CR20M	CD20NFM
G25NFM	35	M30x1	22÷32	CR25M	CD25NFM

Per alte velocità - For high speeds



Rumorosità ridotta alle alte velocità.
Chiusura con chiave a rulli.
Reduced noise at high speeds.
Closing with roller wrench.

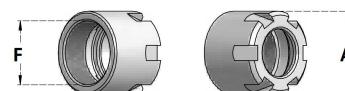
GHIERE CHIUDIPINZA ER CON FILETTATURA MINI SINISTRA

ER CLAMPING NUTS WITH MINI LEFT THREAD

GHIERE ER MINI SINISTRE - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

MINI LEFT ER NUTS - ECCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G11ML	16	M13x0,75 sin	7÷17	CH11M	CD11M
G16ML	22	M19x1 sin	12÷24	CH16M	CD16M
G20ML	28	M24x1 sin	16÷28	CH20M	CD20M
G25ML	35	M30x1 sin	22÷32	CH25M	CD25M



Chiusura con chiave per ghiera mini.
Closing with wrench for mini nuts.

Nm: Forza di serraggio consigliata - Recommended tightening torque
CH1: Chiave standard consigliata - Recommended standard wrench
CH2: Chiave dinamometrica consigliata - Recommended torque wrench



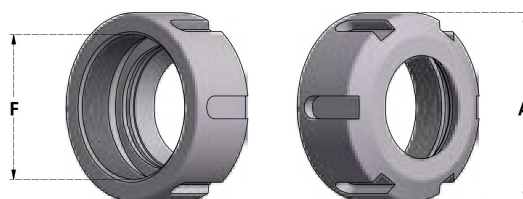
GHIERE CHIUDIPINZA ER CON FILETTATURA STANDARD DESTRA

ER CLAMPING NUTS WITH STANDARD RIGHT THREAD

GHIERE ER STANDARD - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

STANDARD ER NUTS - ECCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G16S	32	M22x1,5	15÷50	CH16S	CD16S
G20S	35	M25x1,5	16÷75	CH20S	CD20S
G25S	42	M32x1,5	25÷100	CH25S	CD25S
G32S	50	M40x1,5	25÷140	CH32S	CD32S
G40S	63	M50x1,5	60÷170	CH40S	CD40S
G50S	78	M64x2	120÷250	CH50S	/



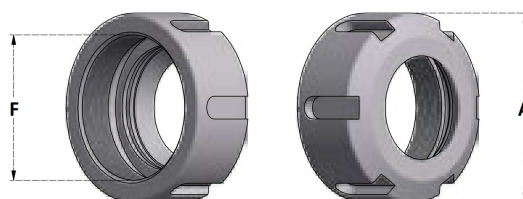
Chiusura con chiave per ghiera standard.
Closing with wrench for standard nuts.

GHIERE ER CONCENTRICHE - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

CONCENTRIC ER NUTS - CONCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G16WD	32	M22x1,5	15÷50	CH16S	CD16S
G20WD	35	M25x1,5	16÷75	CH20S	CD20S
G25WD	42	M32x1,5	25÷100	CH25S	CD25S
G32WD	50	M40x1,5	25÷140	CH32S	CD32S
G40WD	63	M50x1,5	60÷170	CH40S	CD40S

Solo per pinze STANDARD e HP - Only for STANDARD and HP collets

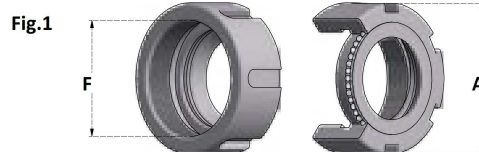


Maggiore equilibratura.
Chiusura con chiave per ghiera standard.
*Better balancing.
Closing with wrench for standard nuts.*

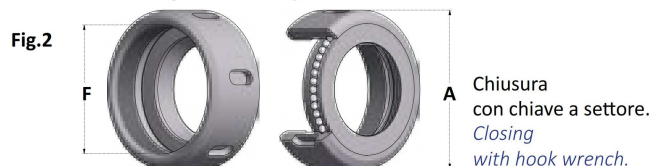
GHIERE ER A SFERE - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

FRICTION BEARING ER NUTS - ECCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2	Fig
G16C	32	M22x1,5	16÷55	CH16S	CD16S	1
G20C	35	M25x1,5	16÷80	CH20S	CD20S	1
G25C	42	M32x1,5	20÷110	CH25S	CD25S	1
G32C	50	M40x1,5	20÷140	CH32S	CD32S	1
G40C	63	M50x1,5	40÷180	CH40S	CD40S	1
G50C	78	M64x2	50÷200	CH50S	/	1
G60C	83	M70x1,5	60÷240	CHO40	/	2



Serraggio con attrito ridotto per una maggiore precisione.
Chiusura con chiave per ghiera standard.
*Reduced grip increases precision.
Closing with wrench for standard nuts.*

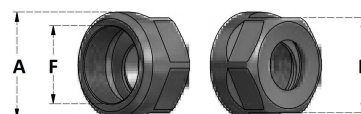


Chiusura con chiave a settore.
Closing with hook wrench.

GHIERE ER ESAGONALI - ESTRAZIONE ECCENTRICA - PIANI PER IL SERRAGGIO

HEXAGONAL ER NUTS - ECCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	A	E	F	Nm	CH1	CH2
G11SE	19	17	M14x0,75	8÷24	CH.E17	CD.E17
G16SE	28	25	M22x1,5	15÷50	CH.E25	CD.E25
G20SE	34	30	M25x1,5	16÷75	CH.E30	CD.E30
G25SE	42	38	M32x1,5	25÷100	CH.E38	/



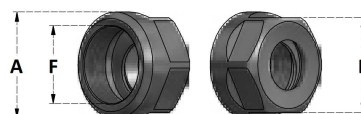
Chiusura con chiave a forchetta.
Closing with open-end wrench.

GHIERE ER ESAGONALI CONCENTRICHE - ESTRAZIONE CONCENTRICA - PIANI PER IL SERRAGGIO

HEXAGONAL ER CONCENTRIC NUTS - CONCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	A	E	F	Nm	CH1	CH2
G16WDE	28	25	M22x1,5	15÷50	CH.E25	CD.E25
G20WDE	34	30	M25x1,5	16÷75	CH.E30	CD.E30

Solo per pinze STANDARD e HP - Only for STANDARD and HP collets



Maggiore equilibratura.
Chiusura con chiave a forchetta.
*Better balancing.
Closing with open-end wrench.*

Nm: Forza di serraggio consigliata - Recommended tightening torque

CH1: Chiave standard consigliata - Recommended standard wrench

CH2: Chiave dinamometrica consigliata - Recommended torque wrench



GHIERE CHIUDIPINZA ER CON FILETTATURA STANDARD

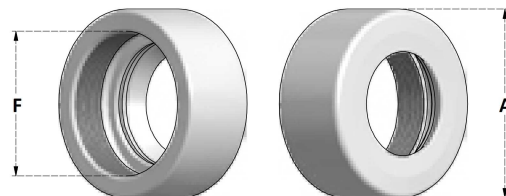
ER CLAMPING NUTS WITH STANDARD THREAD

GHIERE ER SENZA TACCHE - ESTRAZIONE ECCENTRICA - SERRAGGIO SENZA TACCHE

NOTCH-FREE ER NUTS - ECCENTRIC EXTRACTOR - NOTCH-FREE CLAMPING

Articolo	A	F	Nm	CH1	CH2
G16NF	32	M22x1,5	15÷50	CR16	CD16NF
G20NF	35	M25x1,5	16÷75	CR20	CD20NF
G25NF	42	M32x1,5	25÷100	CR25	CD25NF
G32NF	50	M40x1,5	25÷140	CR32	CD32NF
G40NF	63	M50x1,5	60÷170	CR40	CD40NF

Per alte velocità - For high speeds



Rumorosità ridotta alle alte velocità.
Chiusura con chiave a rulli.
Reduced noise at high speeds.
Closing with roller wrench.

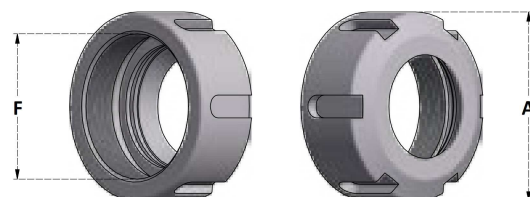
GHIERE CHIUDIPINZA ER CON FILETTATURA SINISTRA

ER CLAMPING NUTS WITH LEFT THREAD

GHIERE ER SINISTRE - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

LEFT ER NUTS - ECCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G16SL	32	M22x1,5 sin	15÷50	CH16S	CD16S
G20SL	35	M25x1,5 sin	16÷75	CH20S	CD20S
G25SL	42	M32x1,5 sin	25÷100	CH25S	CD25S
G32SL	50	M40x1,5 sin	25÷140	CH32S	CD32S
G40SL	63	M50x1,5 sin	60÷170	CH40S	CD40S



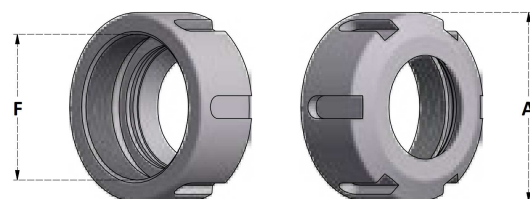
Chiusura con chiave per ghiera standard.
Closing with wrench for standard nuts.

GHIERE ER SINISTRE CONCENTRICHE - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

LEFT ER CONCENTRIC NUTS - CONCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	CH1	CH2
G16WDL	32	M22x1,5 sin	15÷50	CH16S	CD16S
G20WDL	35	M25x1,5 sin	16÷75	CH20S	CD20S
G25WDL	42	M32x1,5 sin	25÷100	CH25S	CD25S
G32WDL	50	M40x1,5 sin	25÷140	CH32S	CD32S
G40WDL	63	M50x1,5 sin	60÷170	CH40S	CD40S

Solo per pinze STANDARD e HP - Only for STANDARD and HP collets

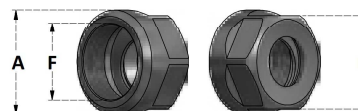


Maggiore equilibratura.
Chiusura con chiave per ghiera standard.
Better balancing.
Closing with wrench for standard nuts.

GHIERE ER SINISTRE ESAGONALI - ESTRAZIONE ECCENTRICA - PIANI PER IL SERRAGGIO

LEFT HEXAGONAL ER NUTS - ECCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	A	E	F	Nm	CH1	CH2
G11SEL	19	17	M14x0,75 sin	8÷24	CH.E17	CD.E17
G16SEL	28	25	M22x1,5 sin	15÷50	CH.E25	CD.E25
G20SEL	34	30	M25x1,5 sin	16÷75	CH.E30	CD.E30



Chiusura con chiave a forchetta.
Closing with open-end wrench.

Nm: Forza di serraggio consigliata - Recommended tightening torque

CH1: Chiave standard consigliata - Recommended standard wrench

CH2: Chiave dinamometrica consigliata - Recommended torque wrench



GHIERE A TENUTA
SEALED NUTS



GHIERE ER PER DISCHETTI A TENUTA
ER NUTS FOR SEALING DISCS

PAG. 343



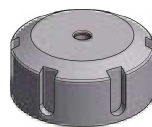
DISCHETTI A TENUTA
SEALING DISCS

PAG. 344



GHIERE ER CON CANALINI
ER NUTS WITH CHANNELS

PAG. 345



GHIERE ER A TENUTA
SEALED ER NUTS

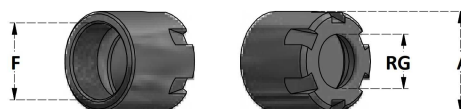
PAG. 345

GHIERE CHIUDIPINZA ER PER DISCHETTI A TENUTA DEL REFRIGERANTE
ER CLAMPING NUTS FOR SEALING DISCS

GHIERE MINI ER PER DISCHETTI ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

MINI ER NUTS FOR SEALING DISCS - ECCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	A	F	Nm	CH1	CH2
G16HTM	22	M19x1	12÷24	CH16M	CD16M
G20HTM	28	M24x1	16÷28	CH20M	CD20M
G25HTM	35	M30x1	22÷32	CH25M	CD25M

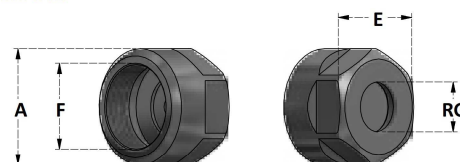


Chiusura con chiave per ghiera mini.
Closing with wrench for mini nuts.

GHIERE ER ESAGONALI PER DISCHETTI - ESTRAZIONE ECCENTRICA - PIANI PER IL SERRAGGIO

HEXAGONAL ER NUTS FOR SEALING DISCS - ECCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	A	E	F	Nm	CH1	CH2
G16HTE	28	25	M22x1,5	15÷50	CH.E25	CD.E25
G20HTE	34	30	M25x1,5	16÷75	CH.E30	CD.E30



Chiusura con chiave a forchetta.
Closing with open-end wrench.

GHIERE ER STANDARD PER DISCHETTI - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

STANDARD ER NUTS FOR SEALING DISCS - ECCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	A	F	Nm	CH1	CH2
G25HT	42	M32x1,5	25÷100	CH25S	CD25S
G32HT	50	M40x1,5	25÷140	CH32S	CD32S
G40HT	63	M50x1,5	60÷170	CH40S	CD40S



Chiusura con chiave per ghiera standard.
Closing with wrench for standard nuts.

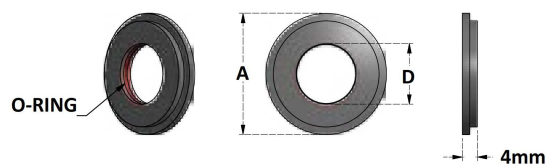


Nm: Forza di serraggio consigliata - Recommended tightening torque
CH1: Chiave standard consigliata - Recommended standard wrench
CH2: Chiave dinamometrica consigliata - Recommended torque wrench



DISCHETTI A TENUTA DEL REFRIGERANTE

SEALING DISCS



Per ghiera G16HTM/E
For G16HTM/E nuts

Articolo	A	D
RG16.D3,5	12,9	3,5
RG16.D4	12,9	4
RG16.D4,5	12,9	4,5
RG16.D5	12,9	5
RG16.D5,5	12,9	5,5
RG16.D6	12,9	6
RG16.D6,5	12,9	6,5
RG16.D7	12,9	7
RG16.D7,5	12,9	7,5
RG16.D8	12,9	8
RG16.D8,5	12,9	8,5
RG16.D9	12,9	9
RG16.D9,5	12,9	9,5
RG16.D10	12,9	10

Per ghiera G20HTM/E
For G20HTM/E nuts

Articolo	A	D
RG20.D3,5	15,9	3,5
RG20.D4	15,9	4
RG20.D4,5	15,9	4,5
RG20.D5	15,9	5
RG20.D5,5	15,9	5,5
RG20.D6	15,9	6
RG20.D6,5	15,9	6,5
RG20.D7	15,9	7
RG20.D7,5	15,9	7,5
RG20.D8	15,9	8
RG20.D8,5	15,9	8,5
RG20.D9	15,9	9
RG20.D9,5	15,9	9,5
RG20.D10	15,9	10
RG20.D10,5	15,9	10,5
RG20.D11	15,9	11
RG20.D11,5	15,9	11,5
RG20.D12	15,9	12
RG20.D12,5	15,9	12,5
RG20.D13	15,9	13

Per ghiera G25HT
For G25HT nuts

Articolo	A	D
RG25.D3,5	21	3,5
RG25.D4	21	4
RG25.D4,5	21	4,5
RG25.D5	21	5
RG25.D5,5	21	5,5
RG25.D6	21	6
RG25.D6,5	21	6,5
RG25.D7	21	7
RG25.D7,5	21	7,5
RG25.D8	21	8
RG25.D8,5	21	8,5
RG25.D9	21	9
RG25.D9,5	21	9,5
RG25.D10	21	10
RG25.D10,5	21	10,5
RG25.D11	21	11
RG25.D11,5	21	11,5
RG25.D12	21	12
RG25.D12,5	21	12,5
RG25.D13	21	13
RG25.D13,5	21	13,5
RG25.D14	21	14
RG25.D14,5	21	14,5
RG25.D15	21	15
RG25.D15,5	21	15,5
RG25.D16	21	16

Per ghiera G32HT
For G32HT nuts

Articolo	A	D
RG32.D3,5	26,95	3,5
RG32.D4	26,95	4
RG32.D4,5	26,95	4,5
RG32.D5	26,95	5
RG32.D5,5	26,95	5,5
RG32.D6	26,95	6
RG32.D6,5	26,95	6,5
RG32.D7	26,95	7
RG32.D7,5	26,95	7,5
RG32.D8	26,95	8
RG32.D8,5	26,95	8,5
RG32.D9	26,95	9
RG32.D9,5	26,95	9,5
RG32.D10	26,95	10
RG32.D10,5	26,95	10,5
RG32.D11	26,95	11
RG32.D11,5	26,95	11,5
RG32.D12	26,95	12
RG32.D12,5	26,95	12,5
RG32.D13	26,95	13
RG32.D13,5	26,95	13,5
RG32.D14	26,95	14
RG32.D14,5	26,95	14,5
RG32.D15	26,95	15
RG32.D15,5	26,95	15,5
RG32.D16	26,95	16
RG32.D16,5	26,95	16,5
RG32.D17	26,95	17
RG32.D17,5	26,95	17,5
RG32.D18	26,95	18
RG32.D18,5	26,95	18,5
RG32.D19	26,95	19
RG32.D19,5	26,95	19,5
RG32.D20	26,95	20

Per ghiera G40HT
For G40HT nuts

Articolo	A	D
RG40.D4	33,3	4
RG40.D4,5	33,3	4,5
RG40.D5	33,3	5
RG40.D5,5	33,3	5,5
RG40.D6	33,3	6
RG40.D6,5	33,3	6,5
RG40.D7	33,3	7
RG40.D7,5	33,3	7,5
RG40.D8	33,3	8
RG40.D8,5	33,3	8,5
RG40.D9	33,3	9
RG40.D9,5	33,3	9,5
RG40.D10	33,3	10
RG40.D10,5	33,3	10,5
RG40.D11	33,3	11
RG40.D11,5	33,3	11,5
RG40.D12	33,3	12
RG40.D12,5	33,3	12,5
RG40.D13	33,3	13
RG40.D13,5	33,3	13,5
RG40.D14	33,3	14
RG40.D14,5	33,3	14,5
RG40.D15	33,3	15
RG40.D15,5	33,3	15,5
RG40.D16	33,3	16
RG40.D16,5	33,3	16,5
RG40.D17	33,3	17
RG40.D17,5	33,3	17,5
RG40.D18	33,3	18
RG40.D18,5	33,3	18,5
RG40.D19	33,3	19
RG40.D19,5	33,3	19,5
RG40.D20	33,3	20
RG40.D20,5	33,3	20,5
RG40.D21	33,3	21
RG40.D21,5	33,3	21,5
RG40.D22	33,3	22
RG40.D22,5	33,3	22,5
RG40.D23	33,3	23
RG40.D23,5	33,3	23,5
RG40.D24	33,3	24
RG40.D24,5	33,3	24,5
RG40.D25	33,3	25
RG40.D25,5	33,3	25,5
RG40.D26	33,3	26

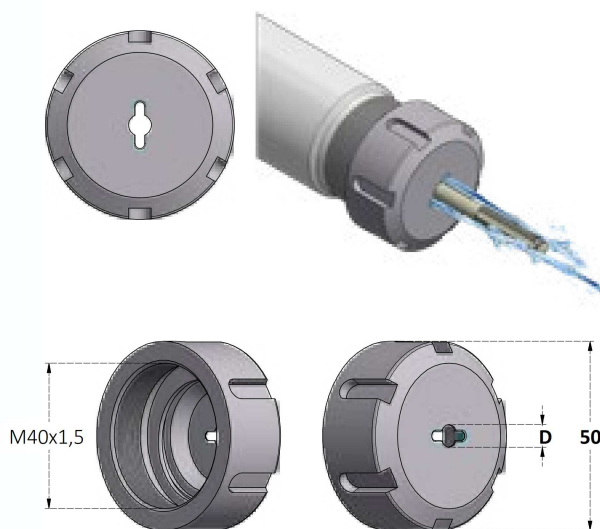
GHIERE CHIUDIPINZA ER CON CANALINI PER IL PASSAGGIO DEL REFRIGERANTE

ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

ER CLAMPING NUTS WITH CHANNELS FOR COOLANT

ECCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	Nm	CH1	CH2
G32CLS.D4	25÷140	CH32S	CD32S
G32CLS.D5	25÷140	CH32S	CD32S
G32CLS.D6	25÷140	CH32S	CD32S
G32CLS.D7	25÷140	CH32S	CD32S
G32CLS.D8	25÷140	CH32S	CD32S
G32CLS.D9	25÷140	CH32S	CD32S
G32CLS.D10	25÷140	CH32S	CD32S
G32CLS.D11	25÷140	CH32S	CD32S
G32CLS.D12	25÷140	CH32S	CD32S
G32CLS.D13	25÷140	CH32S	CD32S
G32CLS.D14	25÷140	CH32S	CD32S
G32CLS.D15	25÷140	CH32S	CD32S
G32CLS.D16	25÷140	CH32S	CD32S
G32CLS.D17	25÷140	CH32S	CD32S
G32CLS.D18	25÷140	CH32S	CD32S
G32CLS.D19	25÷140	CH32S	CD32S
G32CLS.D20	25÷140	CH32S	CD32S



Chiusura con chiave per ghiere standard.

Closing with wrench for standard nuts.

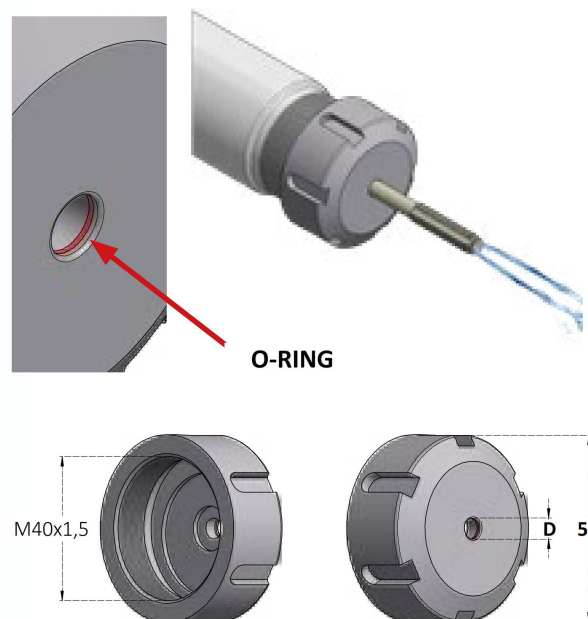
GHIERE CHIUDIPINZA ER A TENUTA DEL REFRIGERANTE

ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

SEALED ER CLAMPING NUTS

ECCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	Nm	CH1	CH2
G32THS.D4	25÷140	CH32S	CD32S
G32THS.D5	25÷140	CH32S	CD32S
G32THS.D6	25÷140	CH32S	CD32S
G32THS.D7	25÷140	CH32S	CD32S
G32THS.D8	25÷140	CH32S	CD32S
G32THS.D9	25÷140	CH32S	CD32S
G32THS.D10	25÷140	CH32S	CD32S
G32THS.D11	25÷140	CH32S	CD32S
G32THS.D12	25÷140	CH32S	CD32S
G32THS.D13	25÷140	CH32S	CD32S
G32THS.D14	25÷140	CH32S	CD32S
G32THS.D15	25÷140	CH32S	CD32S
G32THS.D16	25÷140	CH32S	CD32S
G32THS.D17	25÷140	CH32S	CD32S
G32THS.D18	25÷140	CH32S	CD32S
G32THS.D19	25÷140	CH32S	CD32S
G32THS.D20	25÷140	CH32S	CD32S



Chiusura con chiave per ghiere standard.

Closing with wrench for standard nuts.

Nm: Forza di serraggio consigliata - Recommended tightening torque

CH1: Chiave standard consigliata - Recommended standard wrench

CH2: Chiave dinamometrica consigliata - Recommended torque wrench

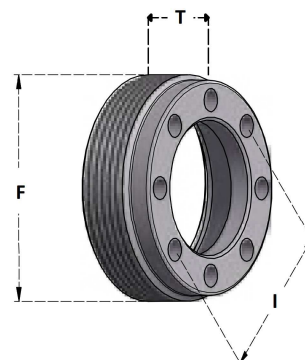
GHIERE ER CON FILETTATURA ESTERNA

EXTERNALLY THREADED ER NUTS

GHIERE ER "TIPO A" - ESTRAZIONE ECCENTRICA - TACCHE PER IL SERRAGGIO

"A TYPE" ER NUTS - ECCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	I	F	Chiave Wrench	T
G11A	13,35	M18x1	CH11A	6
G16A	17,5	M24x1	CH16A	8
G20A	20,6	M28x1,5	CH20A	11
G25A	23,75	M32x1,5	CH25A	12
G32A	31	M40x1,5	CH32A	14

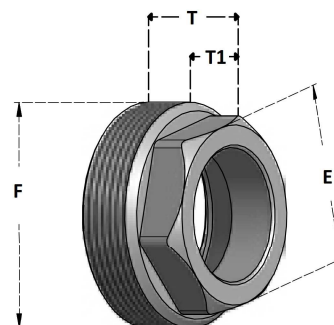


Chiusura con chiave con perni.
Closing pin-wrench.

GHIERE ER "TIPO A" ESAGONALI - ESTRAZIONE ECCENTRICA - PIANI PER IL SERRAGGIO

HEXAGONAL "A TYPE" ER NUTS - ECCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	E	F	Chiave Wrench	T	T1
G11A.EX	15	M18x1	CH.E15	9	3
G16A.EX	19	M24x1	CH.E19	12	5
G20A.EX	22	M28x1,5	CH.E22	13	5
G25A.EX	27	M32x1,5	CH.E27	15	7
G32A.EX	32	M40x1,5	CH.E32	16	8
G40A.EX	42	M50x1,5	CH.E42	19	8



Chiusura con chiave a forchetta.
Closing with open-end wrench.

GHIERE CHIUDIPINZA EOC CON FILETTATURA DESTRA

EOC CLAMPING NUTS WITH RIGHT THREAD

GHIERE EOC STANDARD - A SFERE - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

EOC STANDARD NUTS - FRICTION BEARING - CONCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	Chiave Wrench
G16OCC	43	M33x1,5	85	CHO16/20
G20OCC	50	M42x2	95	CHO16/20
G25OCC	60	M48x2	140	CHO25
G32OCC	72	M60x2,5	170	CHO32
G40OCC	85	M68x2,5	200	CHO40

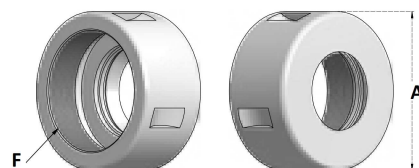


Chiusura con chiave a settore.
Closing with hook wrench.

GHIERE EOC SENZA SFERE - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

EOC NUTS WITHOUT FRICTION BEARING - CONCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	Chiave Wrench
G16OCS	43	M33x1,5	130	CHO16/20
G20OCS	50	M42x2	150	CHO16/20
G25OCS	60	M48x2	200	CHO25
G32OCS	72	M60x2,5	220	CHO32
G40OCS	85	M68x2,5	250	CHO40



Chiusura con chiave a settore.
Closing with hook wrench.

GHIERE CHIUDIPINZA EOC CON FILETTATURA SINISTRA

EOC CLAMPING NUTS WITH LEFT THREAD

GHIERE EOC SINISTRE - A SFERE - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

EOC LEFT NUTS - FRICTION BEARING - CONCENTRIC EXTRACTOR - CLAMPING WITH SLOTS

Articolo	A	F	Nm	Chiave Wrench
G25OCCL	60	M48x2 sin	140	CHO25



Chiusura con chiave a settore.
Closing with hook wrench.

GHIERE CHIUDIPINZA SKS

SKS CLAMPING NUTS

GHIERE SKS - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

SKS NUTS - CONCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	A	F	Nm	CH1
G10SKS	30	M21,5x1	30-55	CH10SKS
G16SKS	40	M32x1	40-75	CH16SKS
G20SKS	48,5	M40x1	60-85	CH20SKS
G25SKS	55,1	M45x1,5	60-85	CH25SKS



Chiusura con chiave a settore per ghiera SKS.
Closing with SKS hook wrench.

DIN ISO 15488 (DIN6499)

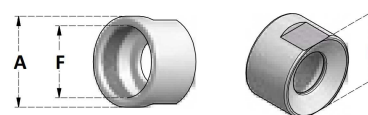
GHIERE CHIUDIPINZA ETS

ETS CLAMPING NUTS

GHIERE ETS MINI - ESTRAZIONE CONCENTRICA - PIANI PER IL SERRAGGIO

MINI ETS NUTS - CONCENTRIC EXTRACTOR - FLATS FOR CLAMPING

Articolo	A	E	F	Nm	CH1
G16ETSM	24	22	M19x1	12÷24	CH.E22
G20ETSM	30,5	28	M24x1	16÷28	CH.E28
G25ETSM	36	34	M30x1	22÷32	CH.E34

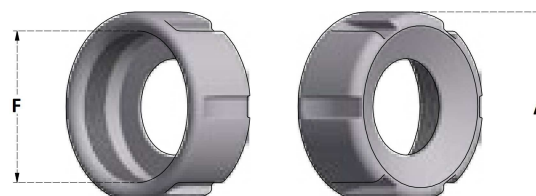


Chiusura con chiave a forchetta.
Closing with open-end wrench.

GHIERE ETS - ESTRAZIONE CONCENTRICA - TACCHE PER IL SERRAGGIO

ETS NUTS - CONCENTRIC EXTRACTOR - SLOTS FOR CLAMPING

Articolo	A	F	Nm	CH1	CH2
G16ETS	32	M22x1,5	15÷50	CH16S	CD16S
G20ETS	35	M25x1,5	16÷75	CH20S	CD20S
G25ETS	42	M32x1,5	25÷100	CH25S	CD25S
G32ETS	50	M40x1,5	25÷140	CH32S	CD32S
G40ETS	63	M50x1,5	60÷170	CH40S	CD40S



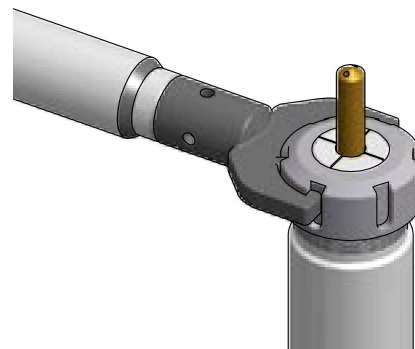
Chiusura con chiave per ghiera standard.
Closing with wrench for standard nuts.

Nm: Forza di serraggio consigliata - Recommended tightening torque
CH1: Chiave standard consigliata - Recommended standard wrench
CH2: Chiave dinamometrica consigliata - Recommended torque wrench



COPPIE DI SERRAGGIO CONSIGLIATE IN BASE ALL'ALESAGGIO DELLA PINZA
RECOMMENDED TIGHTENING TORQUE RELATED TO BORE SIZE OF COLLETS

PINZA COLLET	ALESAGGIO BORE SIZE	FORZA SERRAGGIO TORQUE			
		FILETTATURE STANDARD STANDARD THREADS		FILETTATURE MINI MINI THREADS	
ER8	1 ÷ 5	-	-	M10x0,75	< 8 Nm
ER11	1 ÷ 3	M14x0,75	< 18 Nm	M13x0,75	< 18 Nm
ER16	1 ÷ 3	M22x1,5	< 30Nm	M19x1	< 28 Nm
	3,5 ÷ 10		< 50 Nm		
ER20	1 ÷ 5	M25x1,5	< 40 Nm	M24x1	< 35 Nm
	5,5 ÷ 14		< 70 Nm		
ER25	1 ÷ 6	M32x1,5	< 55 Nm	M30x1	< 40 Nm
	6,5 ÷ 20		< 90 Nm		
ER32	2 ÷ 7	M40x1,5	< 70 Nm	-	-
	7,5 ÷ 20		< 130 Nm	-	-
ER40	3 ÷ 8	M50x1,5	< 130 Nm	-	-
	8,5 ÷ 30	M50x1,5	< 200 Nm	-	-
ER50	6 ÷ 34	M64x2	< 240 Nm	-	-



Si consiglia di chiudere le ghiera con la chiave dinamometrica con la forza di serraggio suggerita per ottenere la migliore concentricità della pinza.

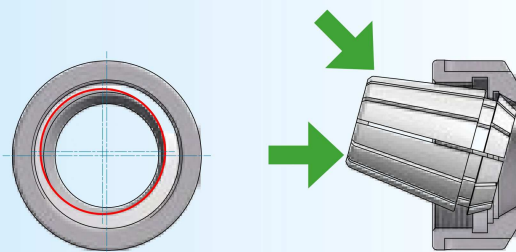
Non superare di oltre il 20% le coppie consigliate per non danneggiare il mandrino portapinze.

Clamp nuts with recommended torque to obtain the best runout accuracy.

Do not exceed more than 20% recommended tightening torque for not damage collet chuck.

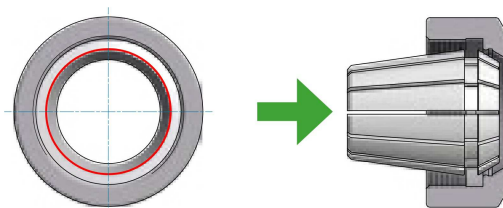
Montaggio di una pinza in una ghiera eccentrica.

Mounting of a collet in eccentric nut.



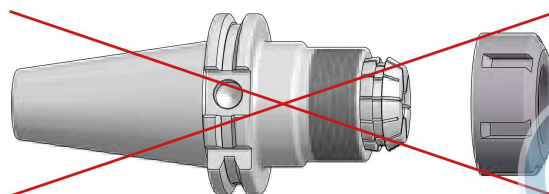
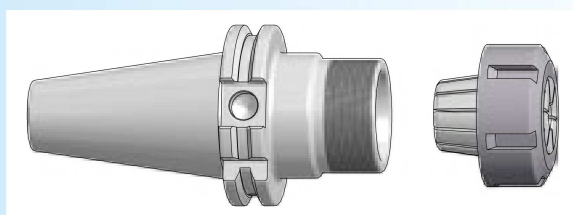
Montaggio di una pinza in una ghiera concentrica.

Mounting of a collet in concentric nut.



Le pinze devono essere montate sulla ghiera prima di venire serrate sul mandrino.

ER collets must be connected into nut before inserting tool or assembling onto chuck.



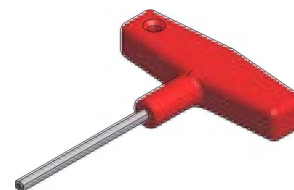
CH

EX

CHIAVI ESAGONALI PER MANDRINI PORTAPUNTA AUTOSERRANTI E PER MANDRINI IDRAULICI

WRENCHES FOR DRILL CHUCKS AND FOR HYDRAULIC CHUCKS

Articolo	EX	PER MANDRINI FOR CHUCKS	PER MANDRINI FOR TOOLHOLDERS
CH.EX4	4	CP8- HD8	
CH.EX5	5		HY6 ÷ HY20
CH.EX6	6	HD13- HD16 CP13- CP16	HY25 HY32



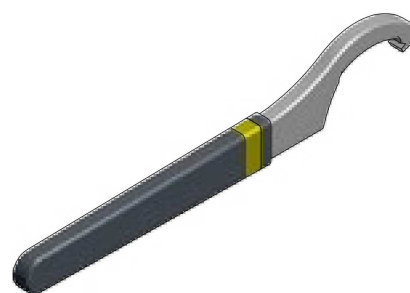
CH

DC

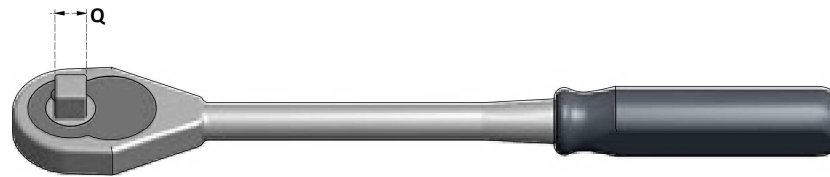
CHIAVI A SETTORE PER MANDRINI PORTAPUNTA AUTOSERRANTI

HOOK WRENCHES FOR DRILL CHUCKS

Articolo	PER MANDRINI FOR CHUCKS
CH.DC8	DC8 DCK8
CH.DC10	DC10 DCK10
CH.DC13	DC13 DCK13
CH.DC16	DC16 DCK16



CRICCHETTO E BUSSOLE PER IL SERRAGGIO DEI TIRANTI
QUICK RATCHET AND SOCKETS FOR PULL STUD CLAMPING



Articolo	Q
CH.SKT	1/2"

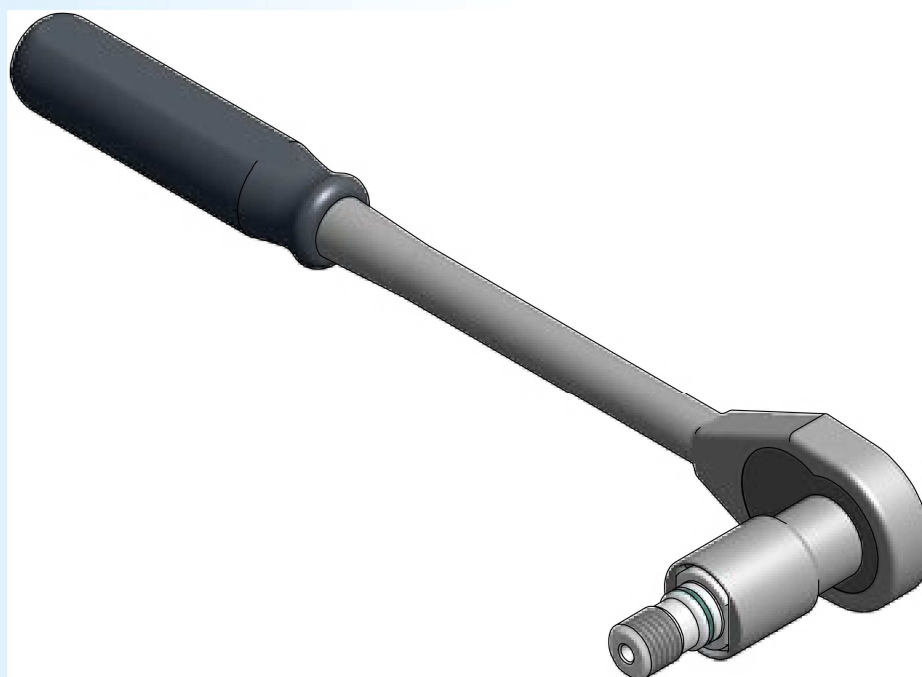
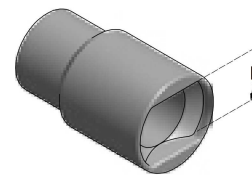
SKT

Articolo	PER I TIRANTI FOR PULL STUDS	E
SKT.DIN40	DIN40	19
SKT.DIN50	DIN50	30

Articolo	PER I TIRANTI FOR PULL STUDS	E
SKT.CAT40	CAT40	18
SKT.CAT50	CAT50	30

Articolo	PER I TIRANTI FOR PULL STUDS	E
SKT.BT40	BT40	19
SKT.BT50	BT50	30

Articolo	PER I TIRANTI FOR PULL STUDS	E
SKT.JS40	JS40	19
SKT.JS50	JS50	30



CHIAVI PER GHIERE DI SERRAGGIO WRENCHES FOR CLAMPING NUTS

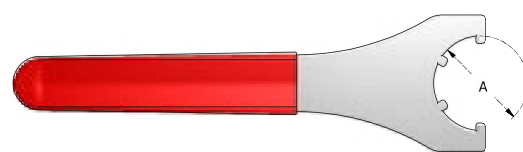
CHIAVI PER GHIERE CON TACCHE

WRENCHES FOR NUTS WITH SLOTS

Articolo	A	Per / For
CH8M	12	G8M
CH11M	16	G11M- G11ML
CH16M	22	G16M- G16WDM- G16ML- G16HTM
CH20M	28	G20M- G20WDM- G20ML- G20HTM
CH25M	35	G25M- G25WDM- G25ML- G25HTM



Articolo	A	Per / For
CH16S	32	G16S- G16WD- G16C- G16SL- G16WDL- G16ETS
CH20S	35	G20S- G20WD- G20C- G20SL- G20WDL- G20ETS
CH25S	42	G25S- G25WD- G25C- G25SL- G25WDL- G25HT- G25ETS
CH32S	50	G32S- G32WD- G32C- G32SL- G32WDL- G32HT- G32CLS- G32THS - G32ETS
CH40S	63	G40S- G40WD- G40C- G40SL- G40WDL- G40HT- G40ETS
CH50S	78	G50S



CHIAVI A FORCHETTA PER GHIERE ESAGONALI (CON PIANI)

WRENCHES WITH OPEN-END FOR HEXAGON NUTS (WITH FLATS)

Articolo	E	Per / For
CH.E14	14	G11MSE
CH.E15	15	G11A.EX
CH.E17	17	G11E- G11SEL
CH.E19	19	G16A.EX
CH.E22	22	G16MSE- G20A.EX- G16ETSM
CH.E25	25	G16SE- G16WDE- G16SEL- G16HTE
CH.E27	27	G20MSE- G25A.EX
CH.E28	28	G20ETSM
CH.E30	30	G20SE- G20WDE- G20SEL- G20HTE
CH.E32	32	G32A.EX
CH.E34	34	G25MSE- G25ETSM
CH.E36	36	
CH.E38	38	G25SE
CH.E42	42	G42A.EX
CH.E50	50	



CHIAVI CON PERNI PER GHIERE "A" CON FORI

PIN-WRENCHES FOR "A" NUTS WITH HOLES

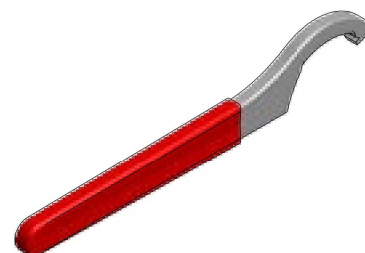
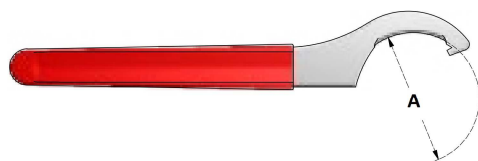
Articolo	I	Per / For
CH11A	13,35	G11A
CH16A	17,5	G16A
CH20A	20,6	G20A
CH25A	23,75	G25A
CH32A	31	G32A



CHO

CHIAVI A SETTORE PER GHIERE CHIUDIPINZA

HOOK WRENCHES FOR CLAMPING NUTS



Articolo	A
CHO16/20	45-50
CHO25	58-62-65
CHO32	68-70-75
CHO40	80-85-90

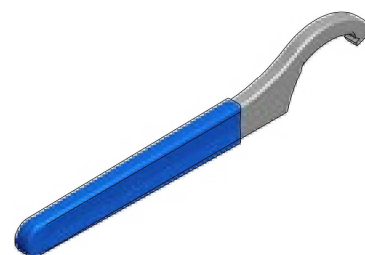
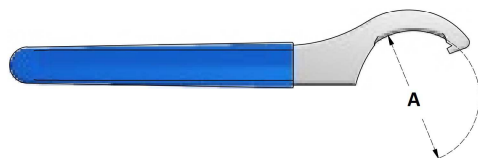
Per ghiera / For nuts	PER MANDRINI A FORTE SERRAGGIO FOR POWER MILLING CHUCKS
G160CC- G200CC- G160CS- G200CS	FS20
G250CC- G250CS- G250CCL	
G320CC- G320CS	FS32
G60C	

CH

SKS

CHIAVI A SETTORE PER GHIERE SKS

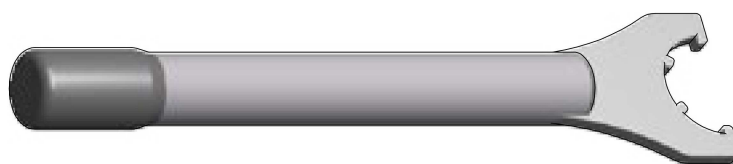
HOOK WRENCHES FOR SKS NUTS



Articolo	A
CH10SKS	30-32
CH16SKS	40-42
CH20SKS	45-50
CH25SKS	52-55

Per ghiera / For nuts
G10SKS
G16SKS
G20SKS
G25SKS

CHIAVI DINAMOMETRICHE PER GHIERE CHIUDIPINZA TORQUE WRENCHES FOR CLAMPING NUTS



CHIAVI PER GHIERE CON TACCHE

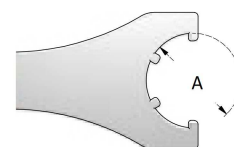
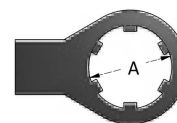
WRENCHES FOR NUTS WITH SLOTS

Articolo	SEGNALE MOMENTO TORCENTE TORQUE SIGNAL	A
CD8M	8	12
CD11M	18	16
CD16M	28	22
CD20M	35	28
CD25M	30	35

Articolo	SEGNALE MOMENTO TORCENTE TORQUE SIGNAL	A
CD16S	30 50	32
CD20S	40 75	35
CD25S	55 90	42
CD32S	70 130	50
CD40S	120 200	63

Per / For
G8M
G11M- G11ML
G16M- G16WDM- G16ML- G16HTM
G20M- G20WDM- G20ML- G20HTM
G25M- G25WDM- G25ML- G25HTM

Per / For
G16S- G16WD- G16C- G16SL- G16WDL- G16ETS
G20S- G20WD- G20C- G20SL- G20WDL- G20ETS
G25S- G25WD- G25C- G25SL- G25WDL- G25HT- G25ETS
G32S- G32WD- G32C- G32SL- G32WDL- G32HT- G32CLS- G32THS - G32ETS
G40S- G40WD- G40C- G40SL- G40WDL- G40HT- G40ETS

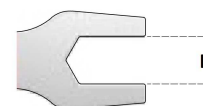


CHIAVI A FORCHETTA PER GHIERE ESAGONALI (CON PIANI)

WRENCHES WITH OPEN-END FOR HEXAGON NUTS (WITH FLATS)

Articolo	SEGNALE MOMENTO TORCENTE TORQUE SIGNAL	E
CD.E14	18	14
CD.E17	20	17
CD.E22	28	22
CD.E25	30 50	25
CD.E30	40 75	30

Per / For
G11MSE
G11E- G11SEL
G16MSE- G20A.EX- G16ETSM
G16SE- G16WDE- G16SEL- G16HTE
G20SE- G20WDE- G20SEL- G20HTE

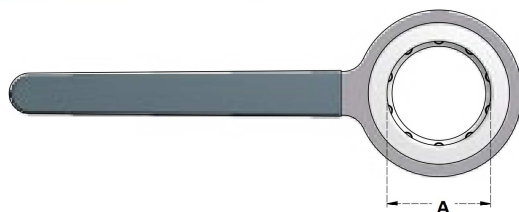


SCEGLIERE IL MOMENTO TORCENTE IN BASE AL
DIAMETRO DELLA PINZA DA STRINGERE
CHOOSE THE TORQUE IN RELATION TO THE
DIAMETER OF THE COLLET



CR

CHIAVI A RULLI PER GHIERE CHIUDIPINZA SENZA TACCHE
WRENCHES WITH ROLLERS FOR NOTCH FREE CLAMPING NUTS



PER GHIERE MINI SENZA TACCHE
FOR NOTCH-FREE MINI NUTS

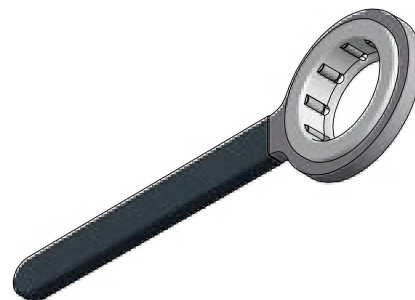
Articolo	A
CR8M	12
CR11M	16
CR16M	22
CR20M	28
CR25M	35

Per / For
G8NFM
G1NFM
G16NFM
G20NFM
G25NFM

PER GHIERE STANDARD SENZA TACCHE
FOR NOTCH-FREE STANDARD NUTS

Articolo	A
CR16	32
CR20	35
CR25	42
CR32	50
CR40	63

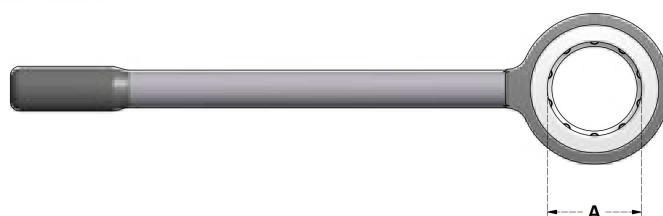
Per / For
G16NF
G20NF
G25NF
G32NF
G40NF



CD

NF

CHIAVI DINAMOMETRICHE A RULLI PER GHIERE CHIUDIPINZA SENZA TACCHE
TORQUE WRENCHES WITH ROLLERS FOR NOTCH FREE CLAMPING NUTS



PER GHIERE MINI SENZA TACCHE
FOR NOTCH-FREE MINI NUTS

Articolo	A	SEGNALE MOMENTO TORCENTE TORQUE SIGNAL
CD8NFM	12	8
CD11NFM	16	18
CD16NFM	22	30
CD20NFM	28	35
CD25NFM	35	40

Per / For
G8NFM
G1NFM
G16NFM
G20NFM
G25NFM

PER GHIERE STANDARD SENZA TACCHE
FOR NOTCH-FREE STANDARD NUTS

Articolo	A	SEGNALE MOMENTO TORCENTE TORQUE SIGNAL	
CD16NF	32	30	50
CD20NF	35	40	70
CD25NF	42	55	90
CD32NF	50	70	130
CD40NF	63	120	200

Per / For
G16NF
G20NF
G25NF
G32NF
G40NF



SCEGLIERE IL MOMENTO TORCENTE IN BASE AL
DIAMETRO DELLA PINZA DA STRINGERE
CHOOSE THE TORQUE IN RELATION TO THE
DIAMETER OF THE COLLET

CDD

CHIAVE DINAMOMETRICA DIGITALE
DIGITAL TORQUE WRENCH

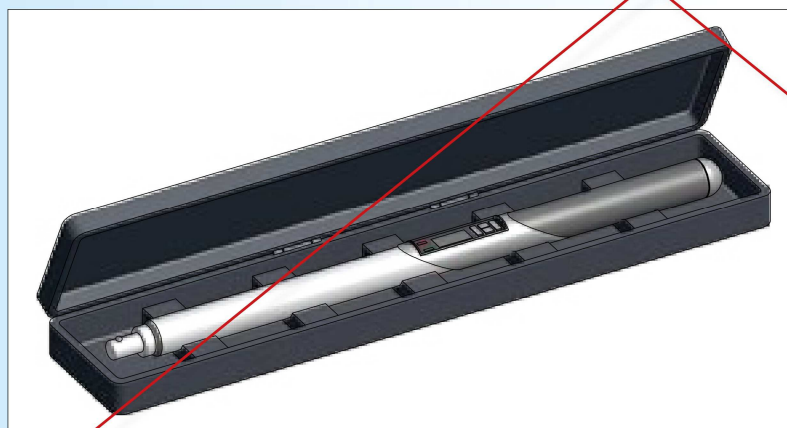


Fuori produzione / Out of production

PILE INCLUSE
BATTERIES INCLUDED

FORNITA SENZA INSERTI
SUPPLIED WITHOUT INSERTS

Articolo	L	D	Range
CDD200	540	16	20 - 200 Nm



ATTENZIONE
Non utilizzare la chiave dinamometrica digitale per serrare pinze con diametri per i quali è suggerita una forza di serraggio inferiore a 20Nm (Pag.349).

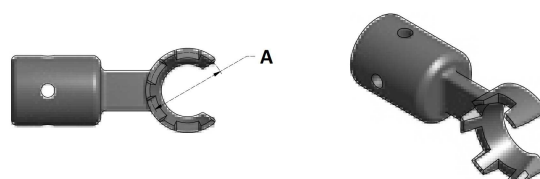
WARNING
Don't use digital torque wrench to clamp collets which recommended tightening is less than 20Nm (see page 349).

COPPIE DI SERRAGGIO
CONSIGLIATE
RECOMMENDED
TIGHTENING TORQUE
PAG 349

INSERTI INTERCAMBIABILI
INTERCHANGEABLE INSERTS

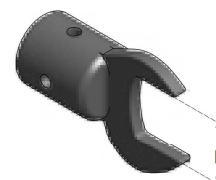
PER GHIERE MINI
FOR MINI NUTS

Articolo	A	Per / For
CDD.11M	16	
CDD.16M	22	G16M- G16WDM- G16ML- G16HTM
CDD.20M	28	G20M- G20WDM- G20ML- G20HTM
CDD.25M	35	G25M- G25WDM- G25ML- G25HTM



PER GHIERE ESAGONALI (CON PIANI)
FOR HEXAGON NUTS (WITH FLATS)

Articolo	E	Per / For
CDD.16SE	25	G16SE- G16WDE- G16SEL- G16HTE
CDD.20SE	30	G20SE- G20WDE- G20SEL- G20HTE



PER GHIERE CON TACCHE
FOR NUTS WITH SLOTS

Articolo	A	Per / For
CDD.25S	42	G25S- G25WD- G25C- G25SL- G25WDL- G25HT- G25ETS
CDD.32S	50	G32S- G32WD- G32C- G32SL- G32WDL- G32HT- G32CLS- G32THS- G32ETS
CDD.40S	63	G40S- G40WD- G40C- G40SL- G40WDL- G40HT- G40ETS

