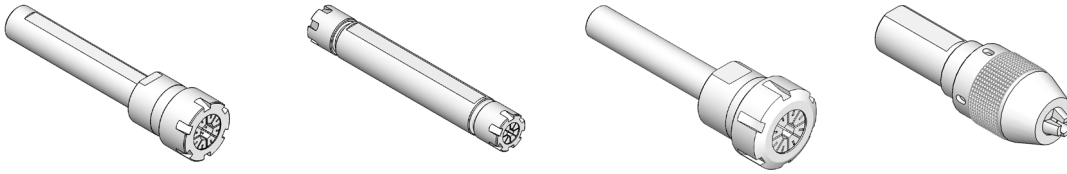


INDICE DEGLI ATTACCHI

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CILINDRICO - DIN 1835 A

STRAIGHT - DIN 1835 A

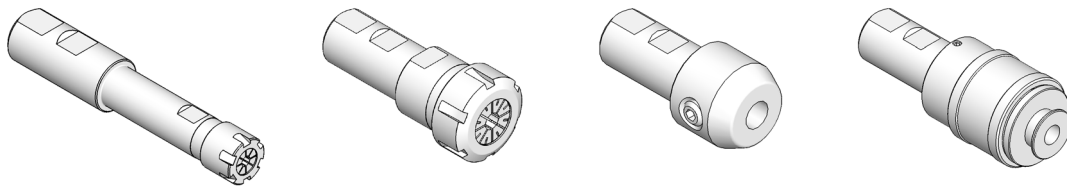


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WELDON - DIN 1835 B

WELDON - DIN 1835 B

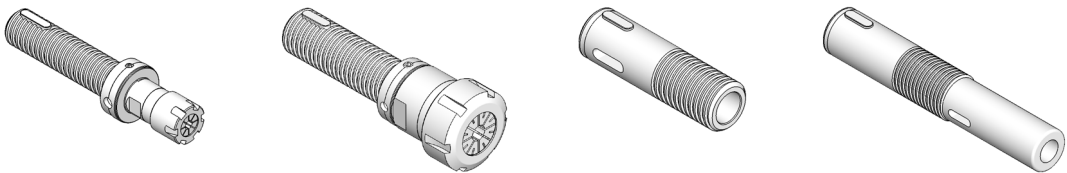


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TRAPEZIO - DIN 6327

AUTOMOTIVE - DIN 6327

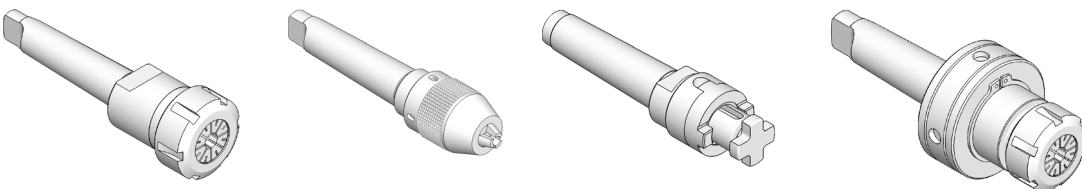


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CONO MORSE - DIN 228

MT - DIN 228

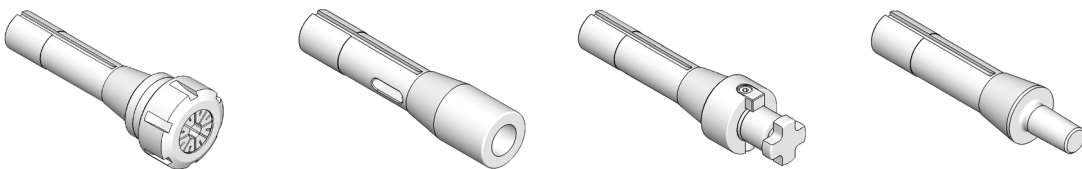


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BRIDGEPORT R8

BRIDGEPORT R8

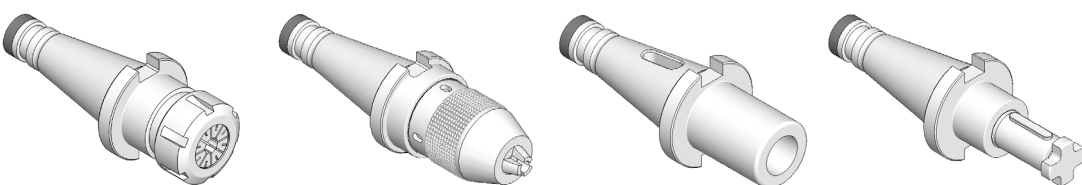


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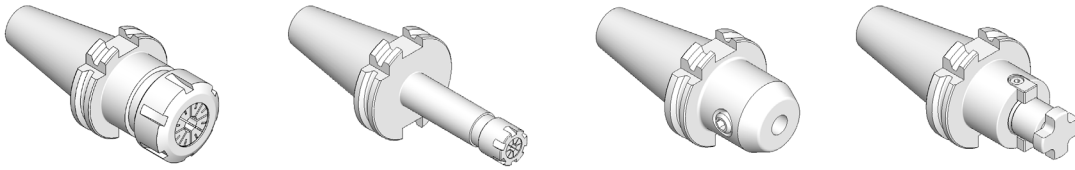
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SK - DIN 69871

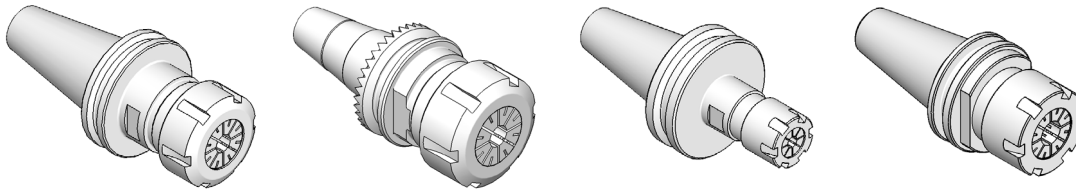


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SPECIALI PER LAVORAZIONE LEGNO E LEGHE LEGGERE

SPECIAL FOR WOOD WORKING AND LIGHT ALLOYS

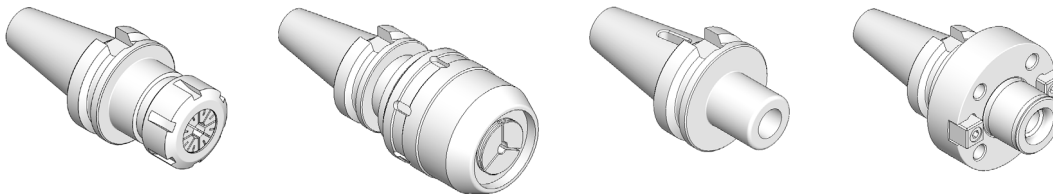


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BT - MAS 403

BT - MAS 403

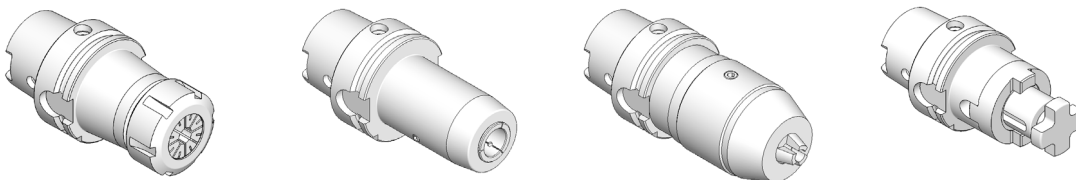


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HSK A+C - DIN 69893

HSK A+C - DIN 69893

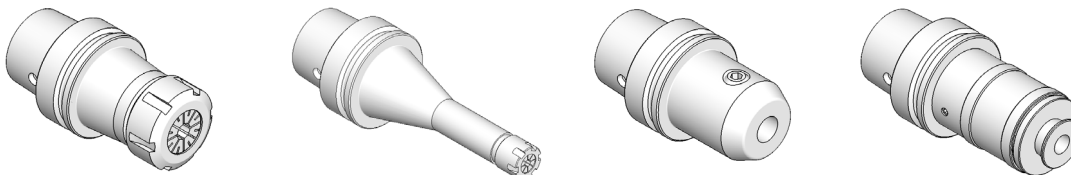


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HSK E - DIN 69893

HSK E - DIN 69893

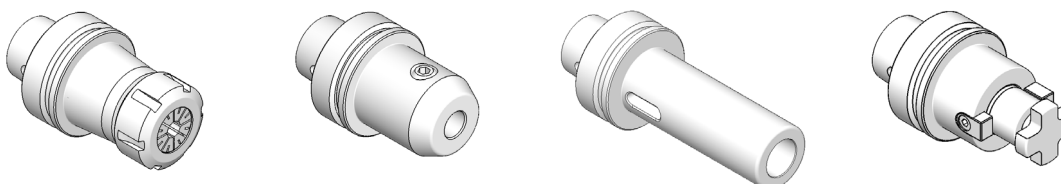


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HSK F - DIN 69893



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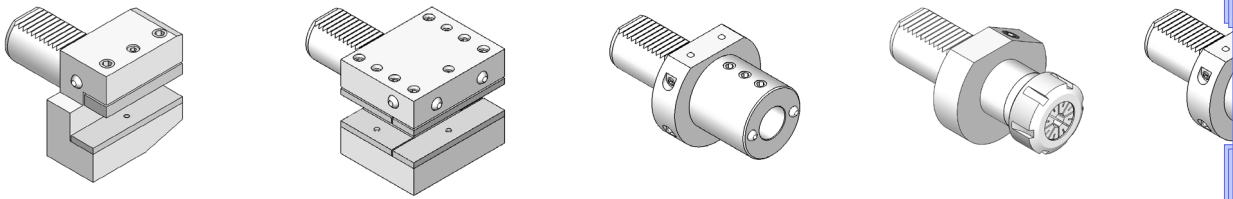
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VDI - DIN 69880

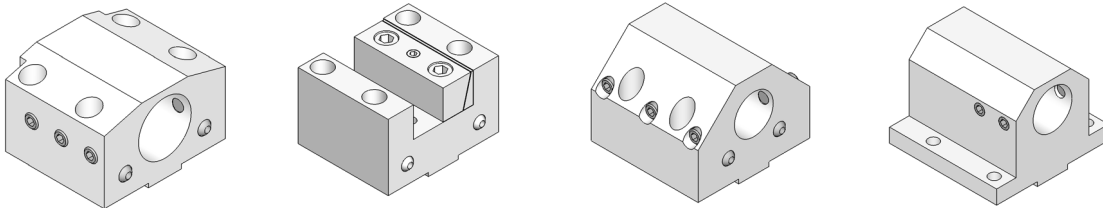


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PORTAUTENSILI RADIALI

RADIAL TOOLHOLDERS

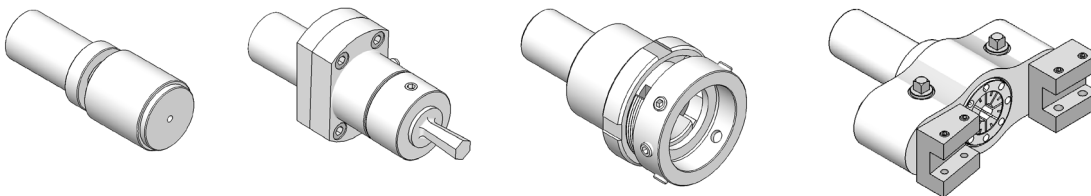


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PORTAUTENSILI ATTACCO CILINDRICO PER TORNO

CYLINDRICAL SHANK TOOLHOLDERS FOR LATHE

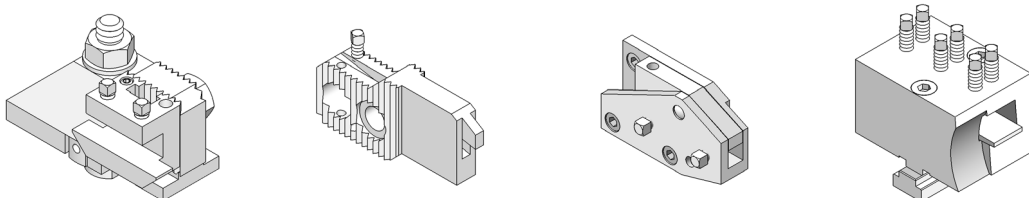


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PORTAUTENSILI PER TORNI AUTOMATICI

TOOLHOLDERS FOR AUTOMATIC LATHES

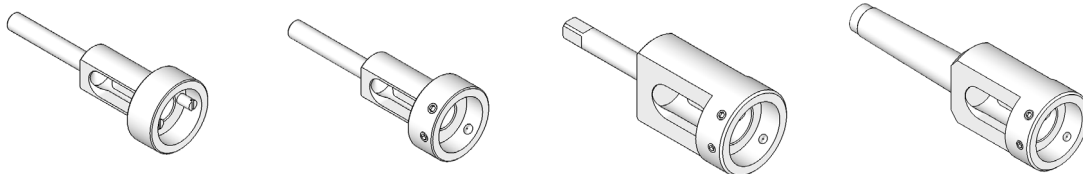


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PORTAFILIERA FISSI

FIXED THREADING DIE HOLDERS

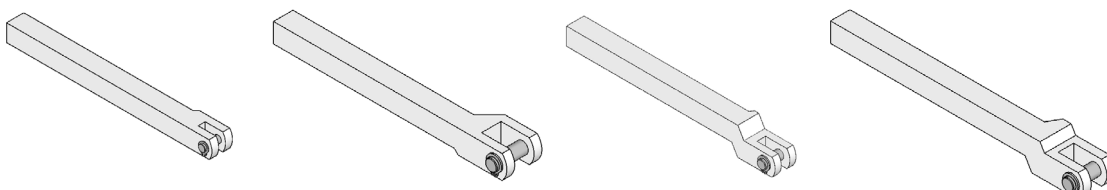


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PORTAGODRONI

KNURLING-WHEEL HOLDERS



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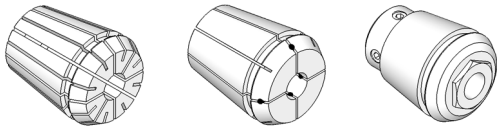
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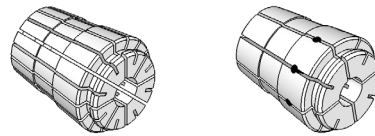


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PINZE TS

TS COLLETS

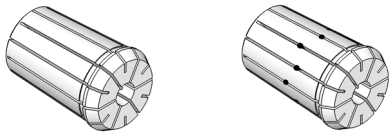


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PINZE EOC - DIN 6388

EOC COLLETS - DIN 6388

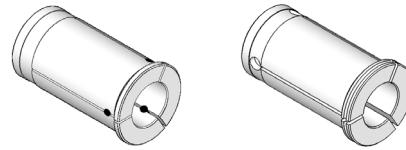


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PINZE CILINDRICHE

CYLINDRICAL COLLETS

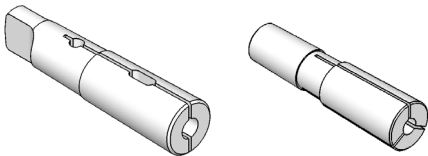


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PINZE CONO MORSE

MORSE TAPER COLLETS

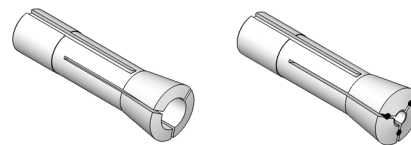


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PINZE BRIDGEPORT R8

BRIDGEPORT R8 COLLETS

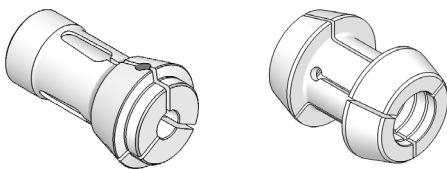


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PINZE PER TORNIO

COLLETS FOR LATHE

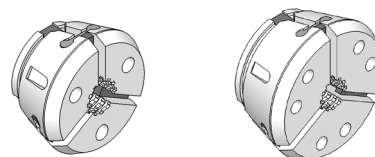


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TESTE DI CHIUSURA

CLAMPING HEADS

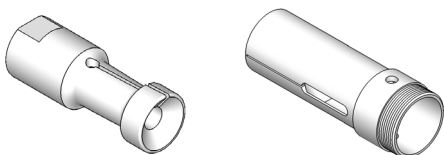


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PINZE DI AVANZAMENTO

FEED FINGERS

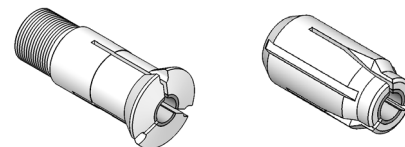


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BUSSOLE CON METALLO DURO

SLEEVES WITH SOLID CARBIDE

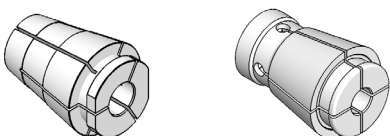


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ALTRE PINZE PORTAUTENSILI

OTHER TOOL COLLETS

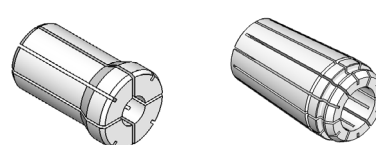


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PINZE TIPO "DA" E "TG"

"DA" AND "TG" TYPE COLLETS



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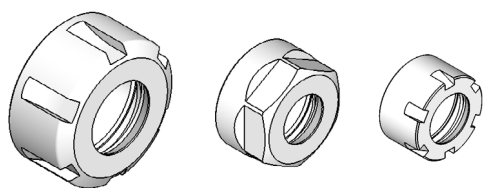
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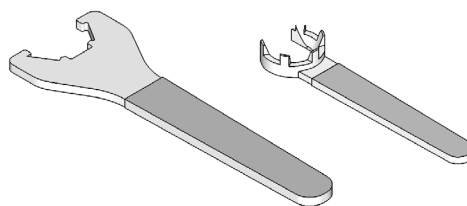


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CHIAVI ER - DIN 6499

DIN 6499 - ER WRENCHES

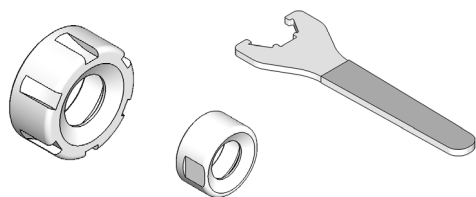


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GHIERE E CHIAVI TS

TS COLLETS AND WRENCHES

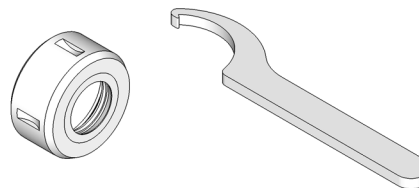


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GHIERE E CHIAVI EOC - DIN 6388

DIN 6388 - EOC COLLETS AND WRENCHES

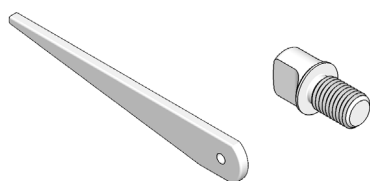


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CACCIACONI E TENONI PER CM

MT CONE EJECTORS AND TONQUES

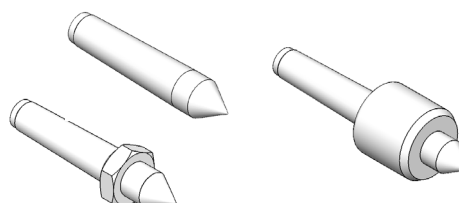


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CONTROPUNTE A CM

MT TAILSTOCKS

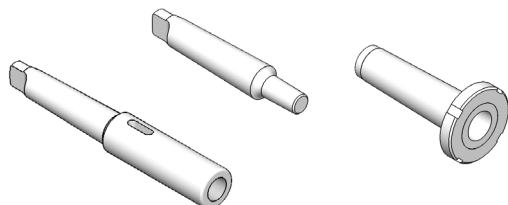


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RIDUZIONI E PROLUNGHE CM

MT REDUCTIONS AND EXTENTIONS

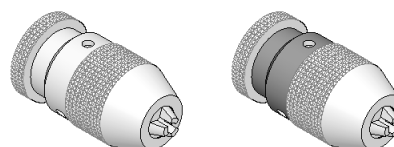


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MANDRINI AUTOSERRANTI

KEYLESS DRILL CHUCKS

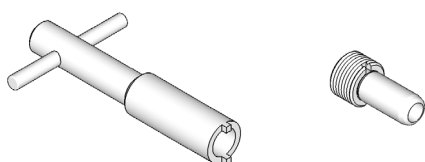


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ADDUTTORI E CHIAVI HSK

HSK COOLANT TUBES AND WRENCHES

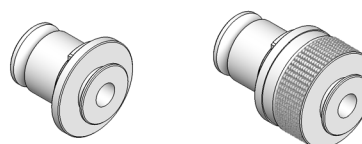


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BUSSOLE PORTA MASCHI

TAP ADAPTERS

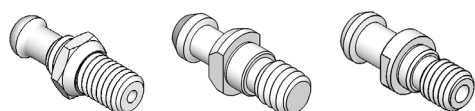


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CODOLI DI AGGANCIO

PULL STUD BOLTS

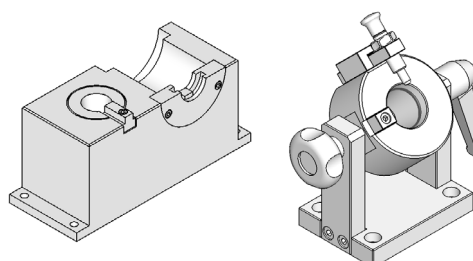


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SUPPORTI DI MONTAGGIO

TIGHTENING FIXTURES



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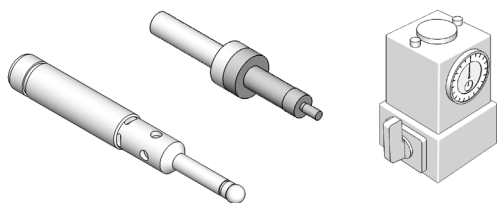
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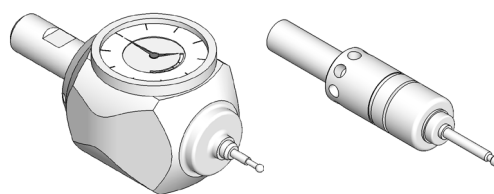


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3D INSTRUMENTS

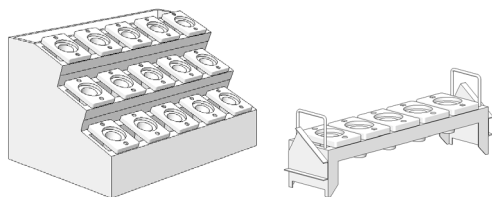


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MAGAZZINI PORTACONI

TOOL STORES

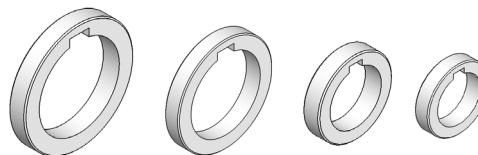


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SPACERS

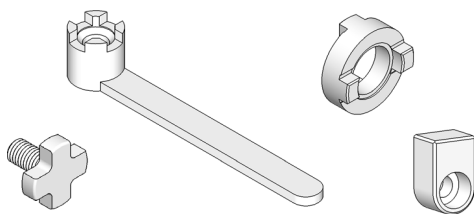


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RICAMBI PER PORTAFRESA

SPARES FOR MILL HOLDERS

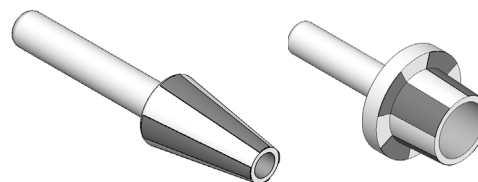


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TAMPONI PULITORI

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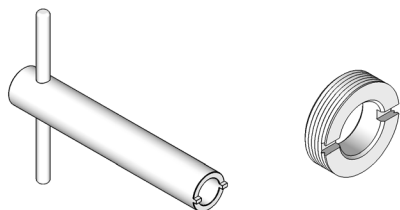


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CHIAVI E GHIERE PER CM

WRENCHES AND NUTS FOR MT

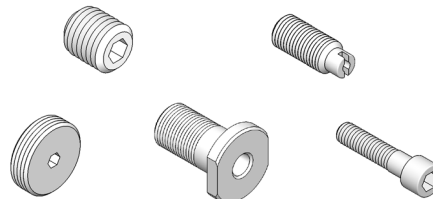


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SCREWS

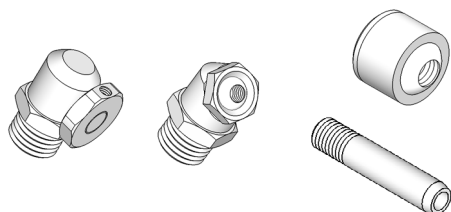


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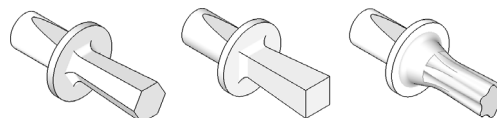


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BROACHES

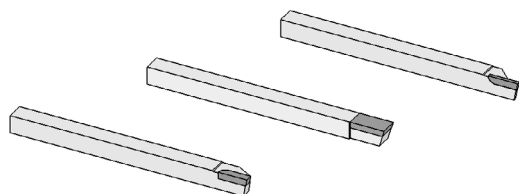


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UTENSILI SALDOBASATI

BRAZED CARBIDE TOOLS

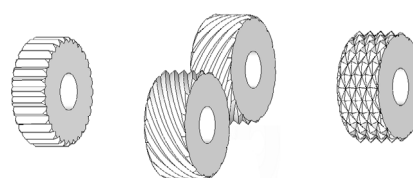


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GODRONI

KNURLING WHEELS



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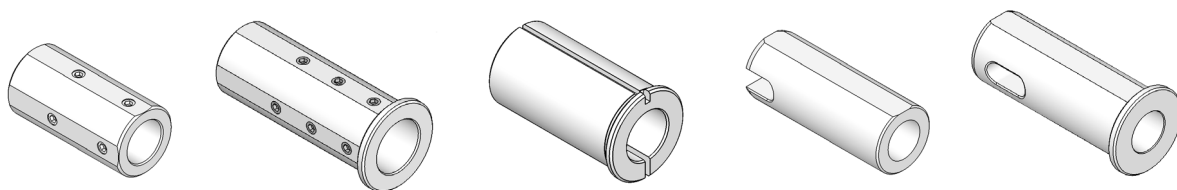
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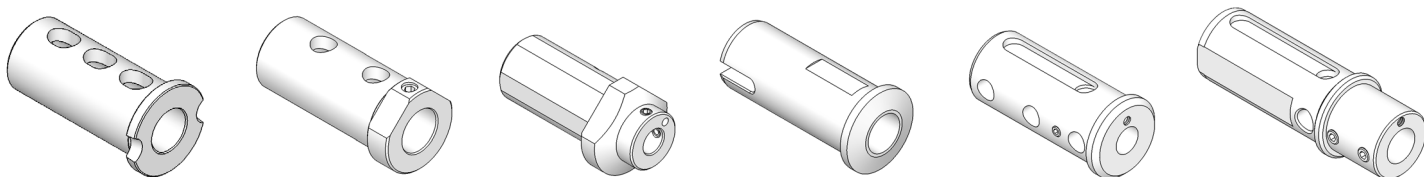
BUSOLE DI RIDUZIONE

REDUCTION SLEEVES



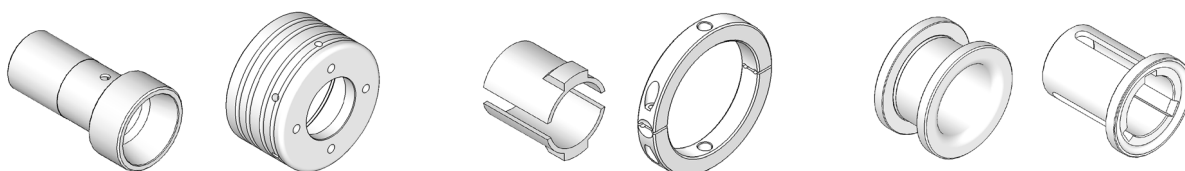
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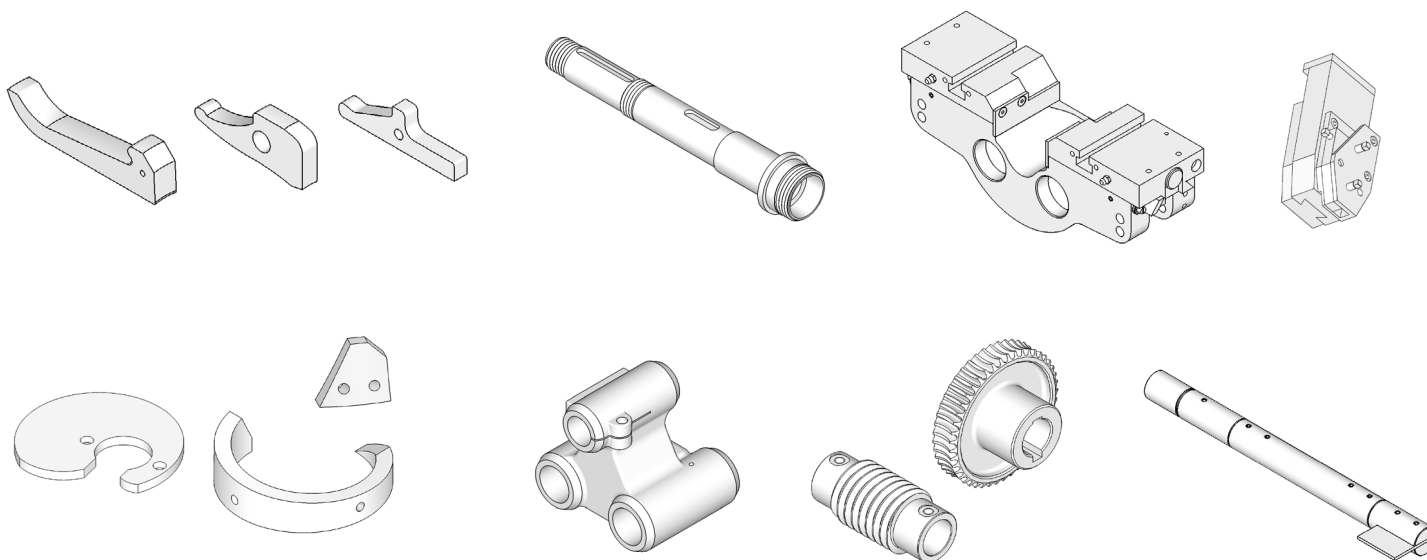
RICAMBI ED ACCESSORI PER TORNI AUTOMATICI

SPARES AND ACCESSORIES FOR AUTOMATIC LATHES



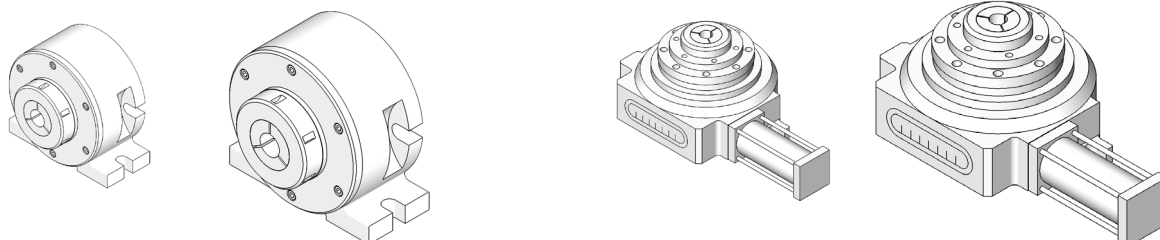
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CHIUDIPINZA E DIVISORI PNEUMATICI

PNEUMATIC COLLET CHUCKS AND INDEXING FIXTURES



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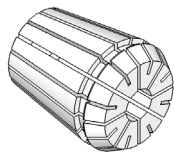
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INDICE DEL SISTEMA ER - DIN 6499

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PRECISIONE STANDARD

STANDARD PRECISION



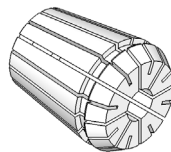
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DI ALTA PRECISIONE

HIGH PRECISION TYPE



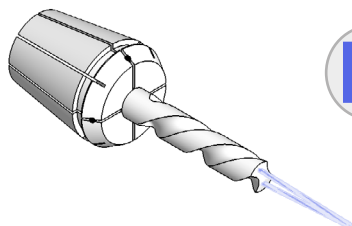
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A TENUTA STAGNA

WATERTIGHT TYPE



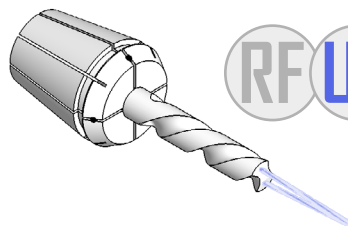
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A TENUTA STAGNA - ULTRA PRECISE

WATERTIGHT ULTRA PRECISION TYPE



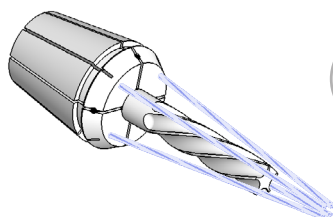
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CON FORI DI LUBRIFICAZIONE

WITH COOLANT HOLES



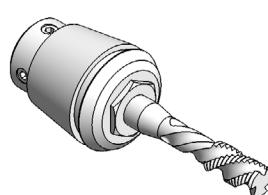
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COMPENSATE A TRAZIONE

WITH TRACTION COMPENSATION



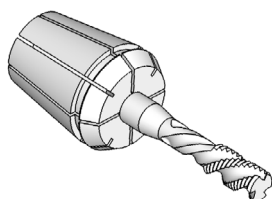
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CON QUADRO PER MASCHI

WITH SQUARE FOR TAPS



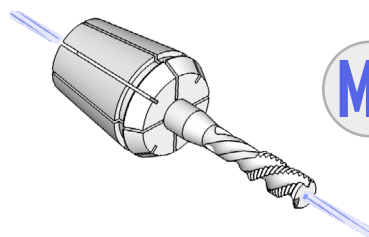
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CON QUADRO A TENUTA STAGNA

WATERTIGHT WITH SQUARE



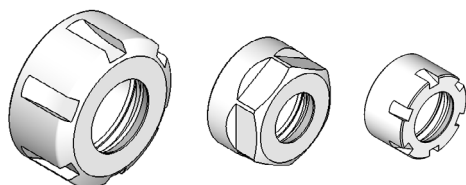
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GHIERE DI SERRAGGIO

CLAMPING NUTS

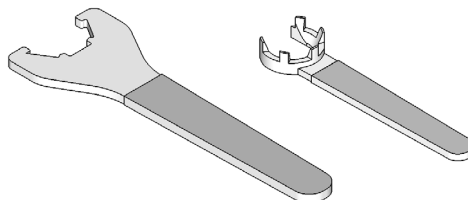


Programma
completo
da
pagina

20

CHIAVI

WRENCHES



Programma
completo
da
pagina


24

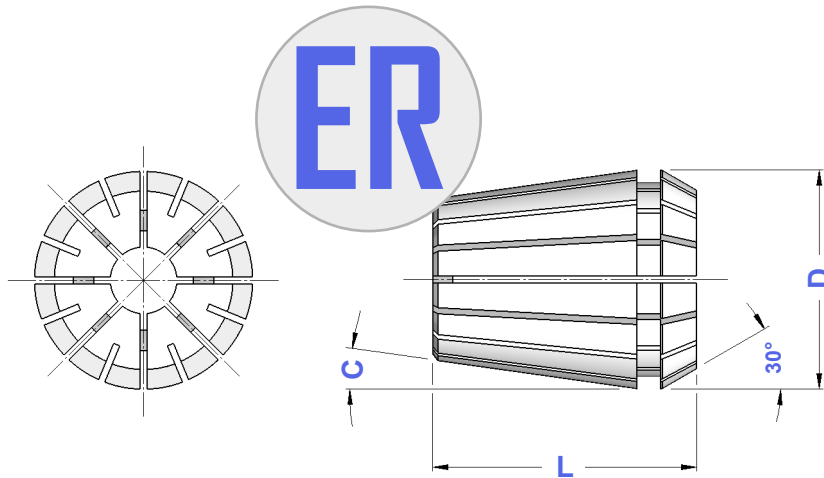
**DIN
6499/B**

PINZE ER
ER COLLETS

PRECISIONE

RUNOUT

 = 0,010

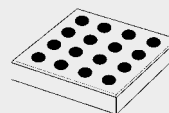


TIPO	ARTICOLO	CAPACITA'	SERRAGGIO	PROGRESSIONE	D	L	C	EINHEITS
ER 8	0554	1 ÷ 5	mm 0,5	0,5	8,5	13,5	8°	4004E
ER 11	5573	1 ÷ 7	mm 0,5	0,5	11,5	18,0	8°	4008E
ER 12	5601	1 ÷ 3 4 ÷ 7	mm 0,5 mm 1,0	0,5	12,0	19,5	8°	424E
ER 16	0364	1 ÷ 3 4 ÷ 10	mm 0,5 mm 1,0	0,5	17,0	27,5	8°	426E
ER 20	0787	1 ÷ 3 4 ÷ 13	mm 0,5 mm 1,0	0,5	21,0	31,5	8°	428E
ER 25	0996	1 ÷ 3 4 ÷ 16	mm 0,5 mm 1,0	0,5	26,0	34,0	8°	430E
ER 32	0988	2 ÷ 20	mm 1,0	0,5	33,0	40,0	8°	470E
ER 40	0821	3 ÷ 30	mm 1,0	0,5	41,0	46,0	8°	472E
ER 50	4055	6 ÷ 34	mm 2,0	1,0	52,0	60,0	8°	477E
ER 60	4056	10 ÷ 40	mm 2,0	2,0	61,0	60,0	10°	494E

Tutte le versioni di pinze ER sono disponibili con alesaggi in pollici.
All types of ER collets are available in inches bore.

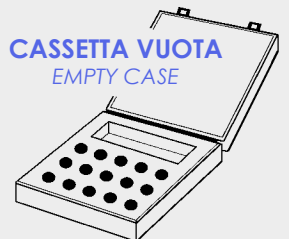
CONTENITORI E CASSETTE VUOTI PER PINZE ER
EMPTY TRAYS AND CASES FOR ER COLLETS

**CONTENITORE VUOTO
IN PLASTICA**
PLASTIC EMPTY TRAY



ARTICOLO

CASSETTA VUOTA
EMPTY CASE



ARTICOLO

TIPO PINZA ER	N° SEDI	ARTICOLO	ARTICOLO
ER 8	16	3672	3690
ER 11	16	3673	3691
ER 12	16	3673	3691
ER 16	16	3674	3692
ER 20	16	3675	3693
ER 25	20	3676	3695
ER 32	20	3677	3695
ER 40	28	3678	3695



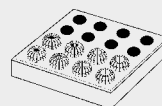
SERIE RIDOTTA DI PINZE ER

ER COLLETS REDUCED SETS

IN CONTENITORE
DI CARTONE
IN CARTON BOX



IN CONTENITORE
DI PLASTICA
IN PLASTIC TRAY



IN CASSETTA
IN CASE



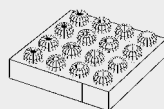
TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO	ARTICOLO
ER 8 Ridotto	ø1 - 2 - 3 - 4 - 5	5	7463	4048	7487
ER 11 Ridotto	ø1 - 2 - 3 - 4 - 5 - 6 - 7	7	7464	4049	7488
ER 16 Ridotto	ø2 - 4 - 6 - 8 - 10	5	7465	4050	7489
ER 20 Ridotto	ø2 - 4 - 6 - 8 - 10 - 12	6	7466	4051	7490
ER 25 Ridotto	ø4 - 6 - 8 - 10 - 12 - 16	6	7467	4052	7491
ER 32 Ridotto	ø4 - 6 - 8 - 10 - 12 - 16 - 20	7	7468	4053	7492
ER 40 Ridotto	ø4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8	7469	4054	7493



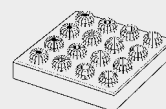
SERIE COMPLETA DI PINZE ER

ER COLLETS COMPLETE SETS

IN CONTENITORE
DI CARTONE
IN CARTON BOX



IN CONTENITORE
DI PLASTICA
IN PLASTIC TRAY



IN CASSETTA
IN CASE



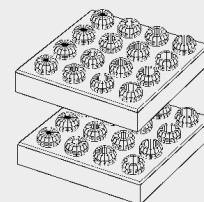
TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO	ARTICOLO
ER 8 Completo	da ø 1 a ø 5 Progressione 0,5	9	7470	4058	7551
ER 11 Completo	da ø 1 a ø 7 Progressione 0,5	13	7471	4060	7552
ER 12 Completo	da ø 1 a ø 7 Progressione 0,5 - 1	9	7472	4061	7599
ER 16 Completo	da ø 1 a ø 10 Progressione 1	10	7473	4062	7553
ER 20 Completo	da ø 2 a ø 13 Progressione 1	12	7474	4063	7554
ER 25 Completo	da ø 2 a ø 16 Progressione 1	15	7475	4064	7555
ER 32 Completo	da ø 3 a ø 20 Progressione 1	18	7476	4065	7556
ER 40 Completo	da ø 4 a ø 26 Progressione 1	23	7477	4066	7557

E' possibile completare tutte le cassette con il portapinza e la chiave di vostro interesse
It is possible to complete all sets in case with collet chuck and wrench you need



SERIE INTEGRALE DI PINZE ER
ER COLLETS WHOLE SETS

IN CONTENITORE
IN PLASTIC TRAY

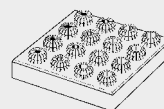


TIPO	DIAMETRI	N° PINZE	ARTICOLO
ER 16 Integrale	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 + Mezze Misure Ø 1,5 - 2,5 - 3,5 - 4,5 - 5,5 - 6,5 - 7,5 - 8,5 - 9,5	19	7746
ER 20 Integrale	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 + Mezze Misure Ø 1,5 - 2,5 - 3,5 - 4,5 - 5,5 - 6,5 - 7,5 - 8,5 - 9,5 10,5 - 11,5 - 12,5	25	7747
ER 25 Integrale	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 - 15 - 16 + Mezze Misure Ø 1,5 - 2,5 - 3,5 - 4,5 - 5,5 - 6,5 - 7,5 - 8,5 - 9,5 10,5 - 11,5 - 12,5 - 13,5 - 14,5 - 15,5	31	7748
ER 32 Integrale	Ø 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 + Mezze Misure Ø 1,5 - 2,5 - 3,5 - 4,5 - 5,5 - 6,5 - 7,5 - 8,5 - 9,5 10,5 - 11,5 - 12,5 - 13,5 - 14,5 - 15,5 - 16,5 17,5 - 18,5 - 19,5	37	7749
ER 40 Integrale	Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30	28	7750



SERIE DI PINZE ER IN POLLICI
SET OF ER COLLETS INCHES DIMENSIONS

IN CONTENITORE
DI PLASTICA
IN PLASTIC TRAY



IN CASSETTA
IN CASE



TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 32 inches	Ø 1/8" - 3/16" - 1/4" - 5/16" 3/8" - 7/16" - 1/2" - 9/16" 5/8" - 11/16" - 3/4"	11	7026	7027

E' possibile completare tutte le cassette con il portapinza e la chiave di vostro interesse
It is possible to complete all sets in case with collet chuck and wrench you need



CASSETTA CON SERIE RIDOTTA DI PINZE ER E CHIAVE MINI

ER COLLETS REDUCED SETS WITH MINI WRENCH

CHIAVE MINI
MINI WRENCH



KIT	DIAMETRI	N° PINZE	CHIAVE	ARTICOLO
ER 8 Ridotto + Chiave Mini	Ø 1-2-3-4-5	5	5717	7751
ER 11 Ridotto + Chiave Mini	Ø 1-2-3-4-5-6-7	7	5718	7752
ER 16 Ridotto + Chiave Mini	Ø 2-4-6-8-10	5	5719	7753
ER 20 Ridotto + Chiave Mini	Ø 2-4-6-8-10-12	6	5720	7754
ER 25 Ridotto + Chiave Mini	Ø 4-6-8-10-12-16	6	5721	7755



CASSETTA CON SERIE COMPLETA DI PINZE ER E CHIAVE MINI

ER COLLETS COMPLETE SETS WITH MINI WRENCH

CHIAVE MINI
MINI WRENCH



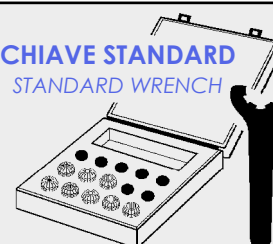
KIT	DIAMETRI	N° PINZE	CHIAVE	ARTICOLO
ER 8 Completo + Chiave Mini	da Ø 1 a Ø 5	9	5717	7001
ER 11 Completo + Chiave Mini	da Ø 1 a Ø 7	13	5718	7002
ER 16 Completo + Chiave Mini	da Ø 1 a Ø 10	10	5719	7003
ER 20 Completo + Chiave Mini	da Ø 2 a Ø 13	12	5720	7004
ER 25 Completo + Chiave Mini	da Ø 2 a Ø 16	15	5721	7005



CASSETTA CON SERIE RIDOTTA DI PINZE ER E CHIAVE STANDARD

ER COLLETS REDUCED SETS WITH STANDARD WRENCH

CHIAVE STANDARD
STANDARD WRENCH



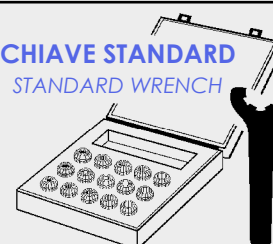
KIT	DIAMETRI	N° PINZE	CHIAVE	ARTICOLO
ER 16 Ridotto + Chiave Standard	Ø 2-4-6-8-10	5	3698	7495
ER 20 Ridotto + Chiave Standard	Ø 2-4-6-8-10-12	6	3699	7496
ER 25 Ridotto + Chiave Standard	Ø 4-6-8-10-12-16	6	3669	7497
ER 32 Ridotto + Chiave Standard	Ø 4-6-8-10-12-16-20	7	3670	7498
ER 40 Ridotto + Chiave Standard	Ø 4-6-8-10-12-16-20-25	8	3671	7499



CASSETTA CON SERIE COMPLETA DI PINZE ER E CHIAVE STANDARD

ER COLLETS COMPLETE SETS WITH STANDARD WRENCH

CHIAVE STANDARD
STANDARD WRENCH




KIT	DIAMETRI	N° PINZE	CHIAVE	ARTICOLO
ER 16 Completo + Chiave Standard	da Ø 1 a Ø 10	10	3698	7536
ER 20 Completo + Chiave Standard	da Ø 2 a Ø 13	12	3699	7537
ER 25 Completo + Chiave Standard	da Ø 2 a Ø 16	15	3669	7538
ER 32 Completo + Chiave Standard	da Ø 3 a Ø 20	18	3670	7539
ER 40 Completo + Chiave Standard	da Ø 4 a Ø 26	23	3671	7540

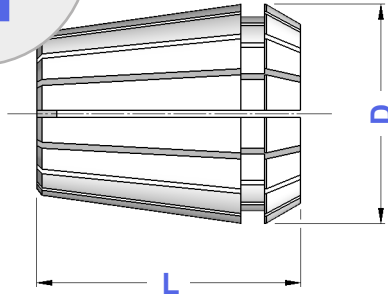
**DIN
6499/B**

PINZE ER DI ALTA PRECISIONE
HIGH PRECISION ER COLLETS

**PRECISIONE
RUNOUT**

 $\leq 0,005$

ER HP



TIPO	ARTICOLO	CAPACITA'	D	L
ER 8 HP	0554 HP	1 ÷ 5	8,5	13,5
ER 11 HP	5573 HP	1 ÷ 7	11,5	18,0
ER 12 HP	5601 HP	1 ÷ 7	12,0	19,5
ER 16 HP	0364 HP	1 ÷ 10	17,0	27,5
ER 20 HP	0787 HP	1 ÷ 13	21,0	31,5
ER 25 HP	0996 HP	1 ÷ 16	26,0	34,0
ER 32 HP	0988 HP	2 ÷ 20	33,0	40,0
ER 40 HP	0821 HP	3 ÷ 30	41,0	46,0
ER 50 HP	4055 HP	6 ÷ 34	52,0	60,0

Le pinze ER-HP differiscono dalle pinze ER standard di pagina 9 per l'altissima precisione: concentricità $\leq 0,005$ mm.

ER-HP collets are different from ER standard collets on page 9 because of the higher precision: $\leq 0,005$ runout accuracy

ER HP

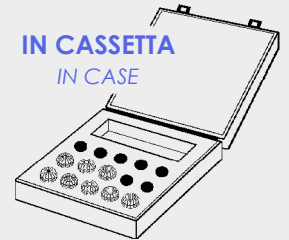
SERIE RIDOTTA DI PINZE ER-HP
REDUCED SETS OF COLLETS ER-HP TYPE

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 8 HP - Ridotto	Ø 1 - 2 - 3 - 4 - 5	5	7558	7572
ER 11 HP - Ridotto	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7	7559	7573
ER 16 HP - Ridotto	Ø 2 - 4 - 6 - 8 - 10	5	7560	7574
ER 20 HP - Ridotto	Ø 2 - 4 - 6 - 8 - 10 - 12	6	7561	7575
ER 25 HP - Ridotto	Ø 4 - 6 - 8 - 10 - 12 - 16	6	7562	7576
ER 32 HP - Ridotto	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7	7563	7577
ER 40 HP - Ridotto	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8	7564	7578

IN CONTENITORE
IN TRAY



IN CASSETTA
IN CASE

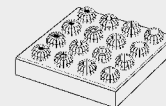


ER HP

SERIE COMPLETA DI PINZE ER-HP
COMPLETE SETS OF COLLETS ER-HP TYPE

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 8 HP - Completo	da Ø 1 a Ø 5	9	7565	7579
ER 11 HP - Completo	da Ø 1 a Ø 7	13	7566	7580
ER 16 HP - Completo	da Ø 1 a Ø 10	10	7567	7581
ER 20 HP - Completo	da Ø 2 a Ø 13	12	7568	7582
ER 25 HP - Completo	da Ø 2 a Ø 16	15	7569	7583
ER 32 HP - Completo	da Ø 3 a Ø 20	18	7570	7584
ER 40 HP - Completo	da Ø 4 a Ø 26	23	7571	7585

IN CONTENITORE
IN TRAY



IN CASSETTA
IN CASE




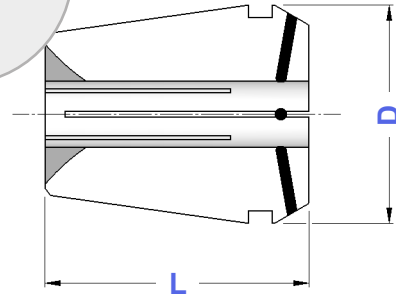
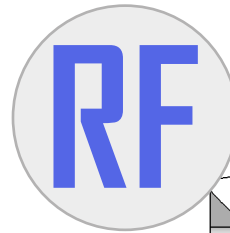
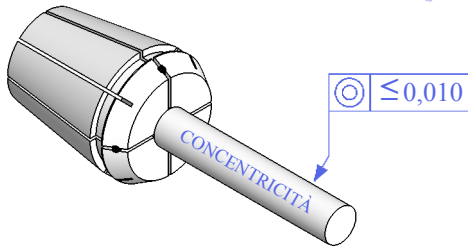
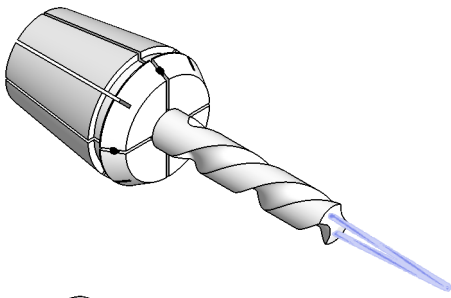
**DIN
6499/A**

PINZE ER A TENUTA STAGNA
WATERTIGHT ER COLLETS

PRECISIONE

RUNOUT

 = 0,010



Pinze con inserti in neoprene (a partire dal Ø 3) e passaggio centrale del refrigerante. Pressione di esercizio: max 40 Bar / 600 PSI Bloccano solo il diametro nominale.

Collets with neoprene insertions (starting from Ø 3) and coolant through the collet hole. Working pressure: max 40 Bar / 600 PSI Those collets clamp only nominal diameter.

TIPO	ARTICOLO	CAPACITA'	D	L	PROGRESSIONE
ER 11 RF	5573 RF	1 ÷ 7	11,5	18,0	0,5
ER 12 RF	5601 RF	1 ÷ 7	12,0	19,5	0,5
ER 16 RF	0364 RF	1 ÷ 10	17,0	27,5	0,5
ER 20 RF	0787 RF	2 ÷ 13	21,0	31,5	0,5
ER 25 RF	0996 RF	2 ÷ 16	26,0	34,0	0,5
ER 32 RF	0988 RF	3 ÷ 20	33,0	40,0	0,5
ER 40 RF	0821 RF	4 ÷ 26	41,0	46,0	0,5
ER 50 RF	4055 RF	6 ÷ 34	52,0	60,0	0,5



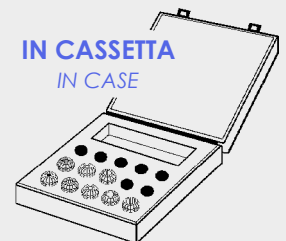
SERIE RIDOTTA DI PINZE RF
REDUCED SETS OF COLLETS RF TYPE

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 RF - Ridotto	Ø 4 - 6 - 8 - 10	4	7587	7600
ER 20 RF - Ridotto	Ø 4 - 6 - 8 - 10 - 12	5	7588	7601
ER 25 RF - Ridotto	Ø 4 - 6 - 8 - 10 - 12 - 16	6	7589	7602
ER 32 RF - Ridotto	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7	7590	7603
ER 40 RF - Ridotto	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8	7591	7604

IN CONTENITORE
IN TRAY



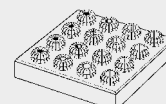
IN CASSETTA
IN CASE



SERIE COMPLETA DI PINZE RF
COMPLETE SETS OF COLLETS RF TYPE

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 RF - Completo	da Ø 3 a Ø 10	8	7593	7606
ER 20 RF - Completo	da Ø 3 a Ø 13	11	7594	7607
ER 25 RF - Completo	da Ø 3 a Ø 16	14	7595	7608
ER 32 RF - Completo	da Ø 3 a Ø 20	18	7596	7609
ER 40 RF - Completo	da Ø 4 a Ø 26	23	7597	7610

IN CONTENITORE
IN TRAY




IN CASSETTA
IN CASE

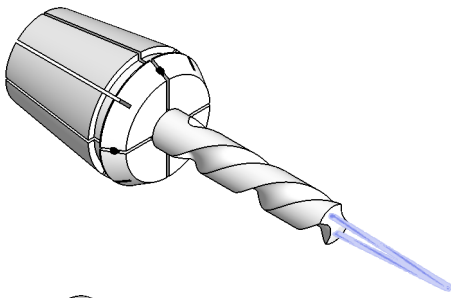


**DIN
6499/A**

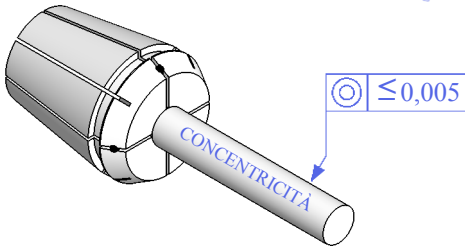
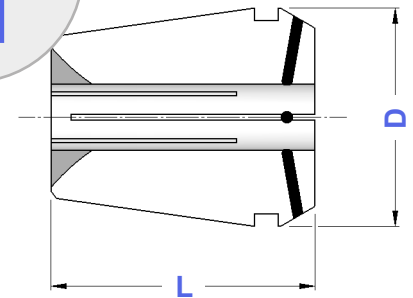
PINZE ER A TENUTA STAGNA DI ULTRA PRECISIONE
ULTRA PRECISION WATERTIGHT ER COLLETS

**PRECISIONE
RUNOUT**

 $\leq 0,005$



RF UP



Pinze con le medesime caratteristiche delle RF ma di altissima precisione: concentricità $\leq 0,005$ mm. Pressione di esercizio: max 40 Bar / 600 PSI Bloccano solo il diametro nominale.

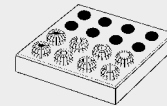
Collets with the same characteristics of RF type but with an ultra precision: $\leq 0,005$ runout accuracy. Working pressure: max 40 Bar / 600 PSI Those collets clamp only nominal diameter.

TIPO	ARTICOLO	CAPACITA'	D	L	PROGRESSIONE
ER 11 RF - UP	5573 UP	1 ÷ 7	11,5	18,0	0,5
ER 12 RF - UP	5601 UP	1 ÷ 7	12,0	19,5	0,5
ER 16 RF - UP	0364 UP	1 ÷ 10	17,0	27,5	0,5
ER 20 RF - UP	0787 UP	2 ÷ 13	21,0	31,5	0,5
ER 25 RF - UP	0996 UP	2 ÷ 16	26,0	34,0	0,5
ER 32 RF - UP	0988 UP	3 ÷ 20	33,0	40,0	0,5
ER 40 RF - UP	0821 UP	4 ÷ 26	41,0	46,0	0,5
ER 50 RF - UP	4055 UP	6 ÷ 34	52,0	60,0	0,5

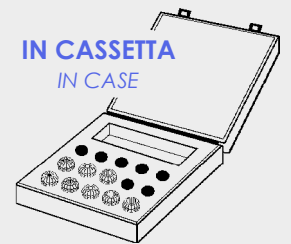
RF UP

SERIE RIDOTTA DI PINZE RF-UP
REDUCED SETS OF COLLETS RF-UP TYPE

IN CONTENITORE
IN TRAY



IN CASSETTA
IN CASE



TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 UP - Ridotto	ø 4 - 6 - 8 - 10	4	7612	7624
ER 20 UP - Ridotto	ø 4 - 6 - 8 - 10 - 12	5	7613	7625
ER 25 UP - Ridotto	ø 4 - 6 - 8 - 10 - 12 - 16	6	7614	7626
ER 32 UP - Ridotto	ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7	7615	7627
ER 40 UP - Ridotto	ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8	7616	7628

RF UP

SERIE COMPLETA DI PINZE RF-UP
COMPLETE SETS OF COLLETS RF-UP TYPE

IN CONTENITORE
IN TRAY



IN CASSETTA
IN CASE




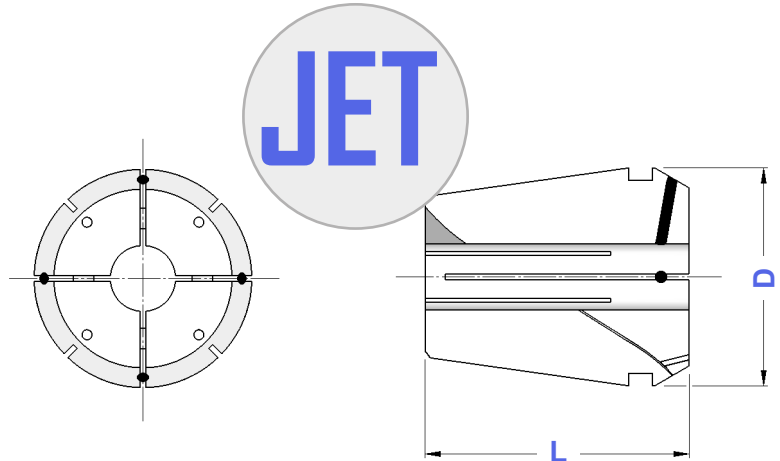
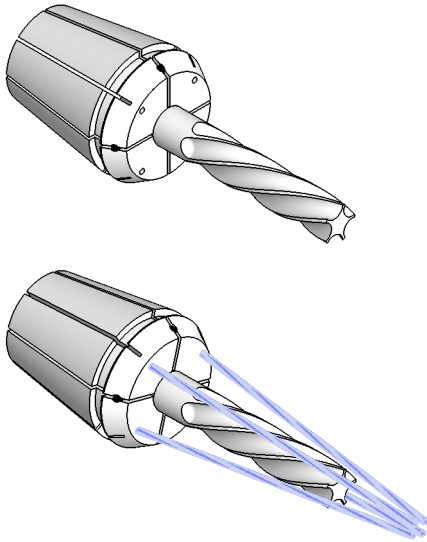
TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 UP - Completo	da ø 3 a ø 10	8	7618	7630
ER 20 UP - Completo	da ø 3 a ø 13	11	7619	7631
ER 25 UP - Completo	da ø 3 a ø 16	14	7620	7632
ER 32 UP - Completo	da ø 3 a ø 20	18	7621	7633
ER 40 UP - Completo	da ø 4 a ø 26	23	7622	7634

**DIN
6499/A**

PINZE ER CON FORI DI LUBRIFICAZIONE
ER COLLETS WITH COOLANT HOLES

**PRECISIONE
RUNOUT**

 = 0,010



Pinze con inserti in neoprene.
Il refrigerante viene convogliato sui taglienti
dell'utensile mediante i fori inclinati.
Pressione di esercizio: max 40 Bar / 600 PSI
Bloccano solo il diametro nominale.

*Collets with neoprene insertions .
Coolant is carried towards the edges of the tool
through sloped holes.*

*Working pressure: max 40 Bar / 600 PSI
JET collets clamp nominal diameter only.*

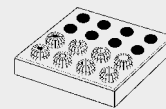
TIPO	ARTICOLO	CAPACITA'	D	L	PROGRESSIONE
ER 16 JET	0364 JET	3 ÷ 7	17,0	27,5	0,5
ER 20 JET	0787 JET	3 ÷ 9	21,0	31,5	0,5
ER 25 JET	0996 JET	3 ÷ 14	26,0	34,0	0,5
ER 32 JET	0988 JET	3 ÷ 20	33,0	40,0	0,5
ER 40 JET	0821 JET	4 ÷ 26	41,0	46,0	0,5
ER 50 JET	4055 JET	6 ÷ 34	52,0	60,0	0,5

JET

SERIE RIDOTTA DI PINZE ER-JET
REDUCED SETS OF COLLETS ER-JET TYPE

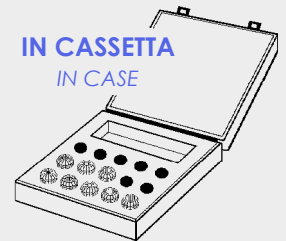
TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 25 JET - Ridotto	∅ 4 - 6 - 8 - 10 - 12	5	7637	7647
ER 32 JET - Ridotto	∅ 4 - 6 - 8 - 10 - 12 - 16 - 20	7	7638	7648
ER 40 JET - Ridotto	∅ 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8	7639	7649

IN CONTENITORE
IN TRAY



ARTICOLO

IN CASSETTA
IN CASE



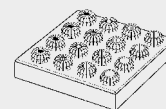
ARTICOLO

JET

SERIE COMPLETA DI PINZE ER-JET
COMPLETE SETS OF COLLETS ER-JET TYPE

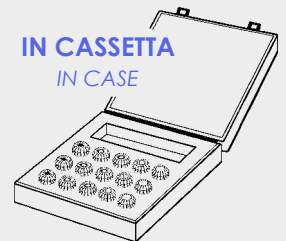
TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 JET - Completo	da ∅ 3 a ∅ 7	5	7640	7650
ER 20 JET - Completo	da ∅ 3 a ∅ 9	7	7641	7651
ER 25 JET - Completo	da ∅ 3 a ∅ 14	12	7642	7652
ER 32 JET - Completo	da ∅ 3 a ∅ 20	18	7643	7653
ER 40 JET - Completo	da ∅ 4 a ∅ 26	23	7644	7654

IN CONTENITORE
IN TRAY

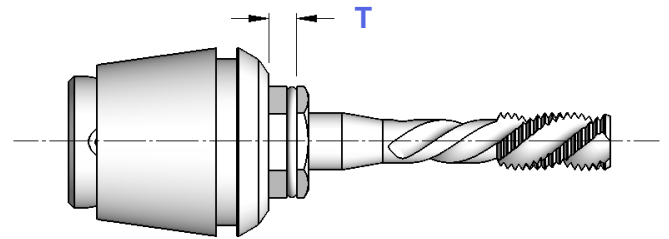
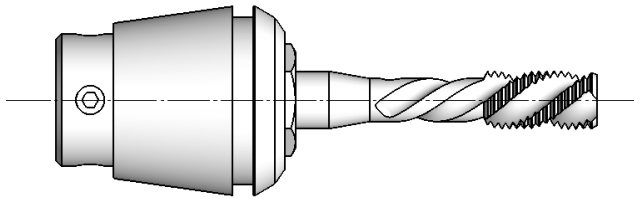
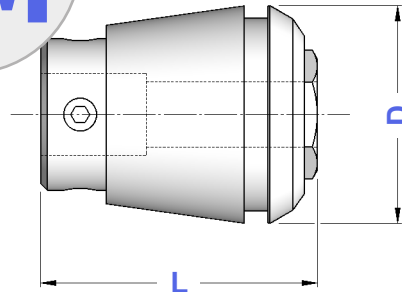
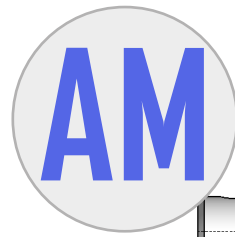


ARTICOLO

IN CASSETTA
IN CASE



ARTICOLO



TIPO	ARTICOLO	CAPACITA'	D	L	T	C
ER 16 - Compensate	0364 AM	da Ø1,4 a Ø6,0	17,0	27,0	7,0	9395
ER 20 - Compensate	0787 AM	da Ø2,2 a Ø7,0	21,0	31,0	7,0	9396
ER 25 - Compensate	0996 AM	da Ø2,5 a Ø10,0	26,0	34,0	8,0	9397
ER 32 - Compensate	0988 AM	da Ø4,5 a Ø12,5	33,0	43,0	10,0	9398
ER 40 - Compensate	0821 AM	da Ø6,0 a Ø16,0	41,0	54,0	13,0	9399

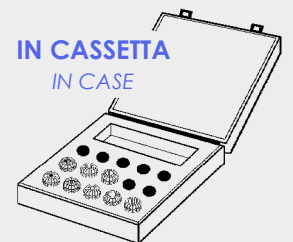
Il maschio viene bloccato con i grani situati sulla parte mobile.

Tap clamped by the grain placed on the mobile part.

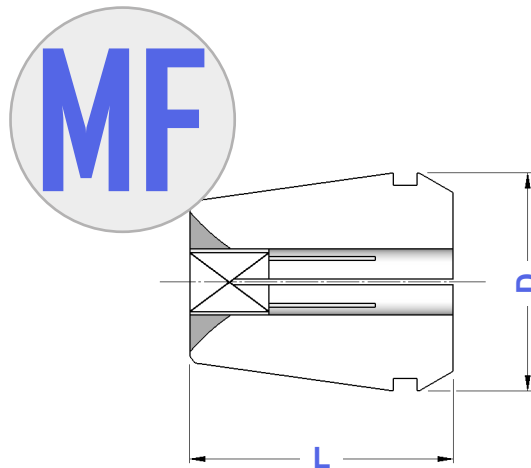


CASSETTA CON SERIE RIDOTTA DI PINZE ER - AM
CASES WITH REDUCED SETS OF COLLETS ER-AM TYPE

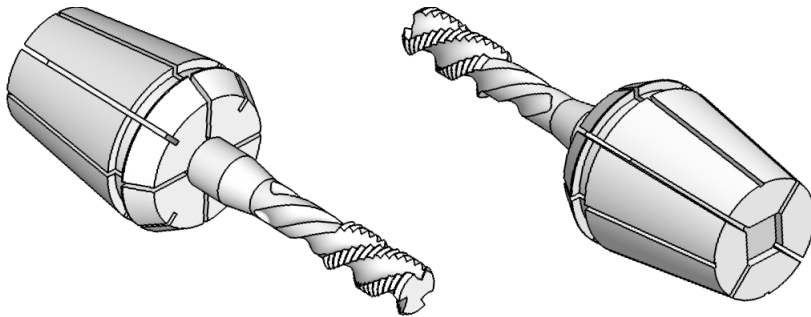
IN CASSETTA
IN CASE



TIPO	DIAMETRI	N° PINZE	ARTICOLO
ER 16 AM - Ridotto	Ø 2,5 - 2,8 - 3,5 - 4 - 4,5 - 5 - 6	7	7741
ER 20 AM - Ridotto	Ø 2,5 - 2,8 - 3,5 - 4 - 4,5 - 5 - 6 - 7	8	7742
ER 25 AM - Ridotto	Ø 3,5 - 4 - 4,5 - 5 - 6 - 7 - 8 - 9 - 10	9	7743
ER 32 AM - Ridotto	Ø 4,5 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9	7744
ER 40 AM - Ridotto	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	9	7745



TIPO	ARTICOLO	CAPACITA'	D	L
ER 11 MF - con Quadro	5573 MF	da Ø3,5 a Ø6,0	11,5	18,0
ER 12 MF - con Quadro	5601 MF	da Ø3,5 a Ø6,0	12,0	19,5
ER 16 MF - con Quadro	0364 MF	da Ø3,5 a Ø8,0	17,0	27,5
ER 20 MF - con Quadro	0787 MF	da Ø3,5 a Ø10,0	21,0	31,5
ER 25 MF - con Quadro	0996 MF	da Ø3,5 a Ø12,0	26,0	34,0
ER 32 MF - con Quadro	0988 MF	da Ø3,5 a Ø16,0	33,0	40,0
ER 40 MF - con Quadro	0821 MF	da Ø4,5 a Ø20,0	41,0	46,0
ER 50 MF - con Quadro	4055 MF	da Ø8,0 a Ø32,0	52,0	60,0



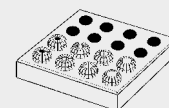
Il quadro di trascinamento per il maschio è ricavato sul fondo della pinza.

Tap drag square got out on the bottom of the collet.



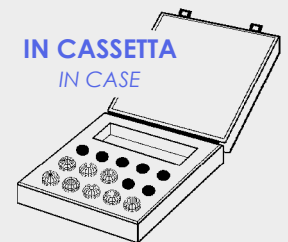
SERIE RIDOTTA DI PINZE ER-MF
REDUCED SETS OF COLLETS ER-MF TYPE

IN CONTENITORE
IN TRAY



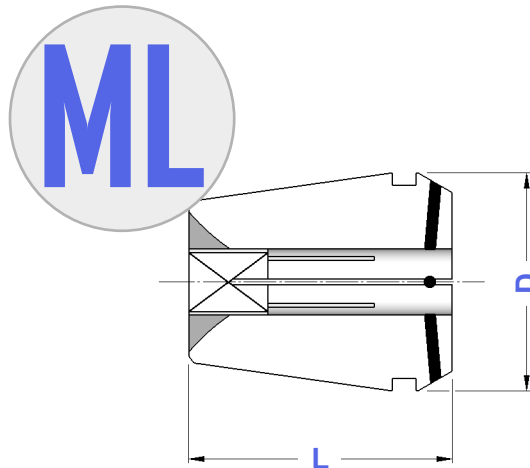
ARTICOLO

IN CASSETTA
IN CASE

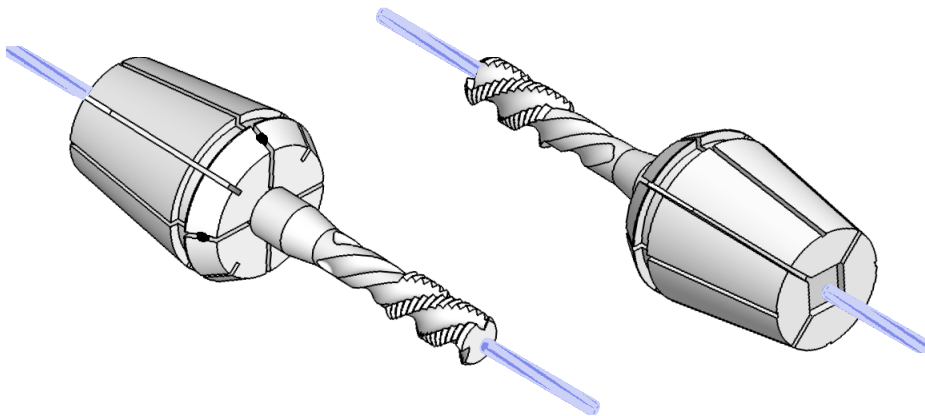


ARTICOLO

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 MF - Ridotto	Ø 3,5 - 4,5 - 6 - 7	4	7655	7660
ER 20 MF - Ridotto	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7	7656	7661
ER 25 MF - Ridotto	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9	7657	7662
ER 32 MF - Ridotto	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	10	7658	7663
ER 40 MF - Ridotto	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16 - 18 - 20	11	7659	7664



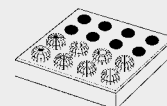
TIPO	ARTICOLO	CAPACITA'	D	L
ER 11 ML - con Quadro	5573 ML	da Ø3,5 a Ø6,0	11,5	18,0
ER 12 ML - con Quadro	5601 ML	da Ø3,5 a Ø6,0	12,0	19,5
ER 16 ML - con Quadro	0364 ML	da Ø3,5 a Ø8,0	17,0	27,5
ER 20 ML - con Quadro	0787 ML	da Ø3,5 a Ø10,0	21,0	31,5
ER 25 ML - con Quadro	0996 ML	da Ø3,5 a Ø12,0	26,0	34,0
ER 32 ML - con Quadro	0988 ML	da Ø3,5 a Ø16,0	33,0	40,0
ER 40 ML - con Quadro	0821 ML	da Ø4,5 a Ø20,0	41,0	46,0
ER 50 ML - con Quadro	4055 ML	da Ø8,0 a Ø32,0	52,0	60,0



Il quadro di trascinamento per il maschio è ricavato sul fondo della pinza.
Pressione di esercizio: max 40 Bar / 600 PSI

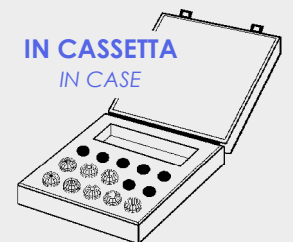
Tap drag square got on the bottom of the collet.
Working pressure: max 40 Bar / 600 PSI

IN CONTENITORE
IN TRAY



ARTICOLO

IN CASSETTA
IN CASE



ARTICOLO




ML

SERIE RIDOTTA DI PINZE ER-ML
REDUCED SETS OF COLLETS ER-ML TYPE

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
ER 16 ML - Ridotto	Ø 3,5 - 4,5 - 6 - 7	4	7756	7761
ER 20 ML - Ridotto	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7	7757	7762
ER 25 ML - Ridotto	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9	7758	7763
ER 32 ML - Ridotto	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	10	7759	7764
ER 40 ML - Ridotto	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16 - 18 - 20	11	7760	7765

FILETTI INTERNI DELLE GHIERE ER

ER NUTS INSIDE THREADS

GHIERA	ER 8	ER 11	ER 16	ER 20	ER 25	ER 32	ER 40	ER 50	ER 60	ER 90
 MINI	10 x 0,75	13 x 0,75	19 x 1,0	24 x 1,0	30 x 1,0					
 ESAGONALE		14 x 0,75	22 x 1,5	25 x 1,5						
 STANDARD			22 x 1,5	25 x 1,5	32 x 1,5	40 x 1,5	50 x 1,5	64 x 2,0	70 x 1,5	110 x 1,5

ASSEMBLAGGIO DELLE PINZE NELLE GHIERE ER

ASSEMBLING OF COLLETS IN ER NUTS

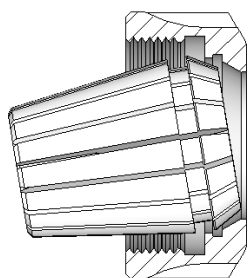


Figura 1

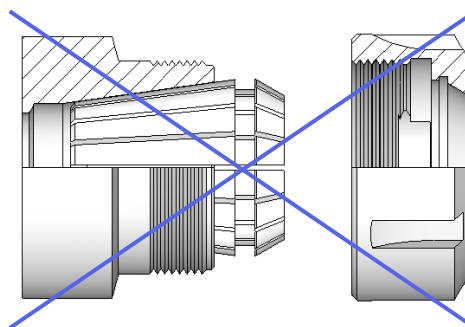


Figura 2

CORRETTO PROCEDIMENTO PER L'ASSEMBLAGGIO DELLA PINZA NELLA GHIERA

- A) Introdurre la pinza nella ghiera inclinandola fino ad accoppiare la scanalatura della pinza con la sede eccentrica della ghiera (figura 1).
- B) Una volta montata la pinza nella ghiera (punto A), avvitare l'assieme sul mandrino.
- C) Dopo aver inserito l'utensile nella pinza, si consiglia l'utilizzo dell'apposita chiave per completare il serraggio.

RIGHT PROCEDURE TO ASSEMBLE THE COLLET IN THE NUT

- A) Insert the collet into the nut inclining it until the collet groove matches with nut excentric seat (picture 1).
- B) Once the collet is fitted in the nut (point A), screw the assembly on the spindle.
- C) After insert the tool into the collet, is suggested to use the suitable wrench to complete the tightening.

ERRATO PROCEDIMENTO PER L'ASSEMBLAGGIO DELLA PINZA NELLA GHIERA

- D) L'inserimento della pinza nella sede mandrino senza prima averla assemblata nella ghiera (figura 2) compromette irrimediabilmente l'integrità dell'assieme :
 - l'eccentrico situato all'interno della ghiera si rompe a causa della pressione esercitata dalla pinza. Tale rottura non permetterà più l'estrazione della pinza che quindi rimarrà bloccata nella sua sede.
 - durante l'avvitamento della ghiera, i residui dell'eccentrico rotto provocano delle scalfiture sulla parte conica rettificata della pinza pregiudicandone il corretto accoppiamento.

WRONG PROCEDURE TO ASSEMBLE THE COLLET IN THE NUT

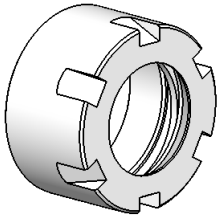
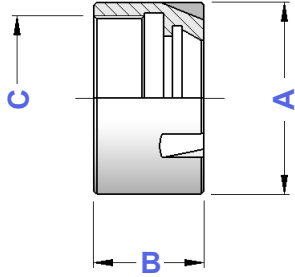
- D) Inserting the collet into the spindle seat without first assembling it with the nut (picture 2) irrimediably compromises the whole integrity :
 - excentric in the nut breaks because of the pressure made by the collet. Such a breakage will not permit anymore the extraction of the collet that then will stay locked in its seat.
 - during the nut screwing, broken excentric residuals cause scrapeson conic grindedpart of the collet compromising the exact matching.

G 6,3 - 15.000 rpm Balanced

**DIN
6499**

GHIERE ER TIPO MINI
ER CLAMPING NUTS MINI TYPE

GM



FILETTO DESTRO
RIGHT THREAD



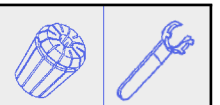
TIPO	Art.	A	B	C		
GM 8	0373	12	10,8	10 x 0,75	0554	5717
GM 11	0432	16	12,0	13 x 0,75	5573	5718
GM 16	1229	22	18,0	19 x 1,00	0364	5719
GM 20	1230	28	19,0	24 x 1,00	0787	5720
GM 25	1231	35	20,0	30 x 1,00	0996	5721

FILETTO SINISTRO
LEFT THREAD



TIPO	Art.	A	B	C		
GM 8 L	1188	12	10,8	10 x 0,75 SX	0554	5717
GM 11 L	1189	16	12,0	13 x 0,75 SX	5573	5718
GM 16 L	1233	22	18,0	19 x 1,00 SX	0364	5719
GM 20 L	1234	28	19,0	24 x 1,00 SX	0787	5720
GM 25 L	1235	35	20,0	30 x 1,00 SX	0996	5721

RETTIFICATE ESTERNAMENTE
FILETTO DESTRO
GRINDED OUTSIDE - RIGHT THREAD



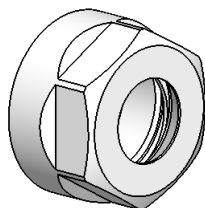
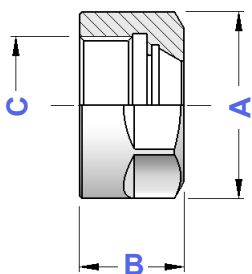
TIPO	Art.	A	B	C		
GM 8 W	5690	12	10,8	10 x 0,75	0554	5717
GM 11 W	5691	16	12,0	13 x 0,75	5573	5718
GM 16 W	5694	22	18,0	19 x 1,00	0364	5719
GM 20 W	5695	28	19,0	24 x 1,00	0787	5720
GM 25 W	5696	35	20,0	30 x 1,00	0996	5721

G 6,3 - 15.000 rpm Balanced

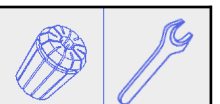
**DIN
6499**

GHIERE ER TIPO ESAGONALE
ER CLAMPING NUTS HEXAGONAL TYPE

GE



FILETTO DESTRO
RIGHT THREAD



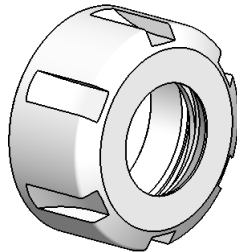
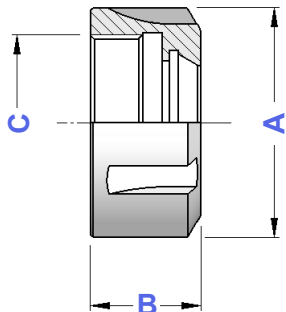
TIPO	Art.	A	B	C		
GE 11	1157	19	11,3	14 x 0,75	5573	2905
GE 12	0342	19	14,0	14 x 0,75	5601	2905
GE 16	1214	28	17,5	22 x 1,50	0364	2906
GE 20	1215	34	19,0	25 x 1,50	0787	2907

G 6,3 - 15.000 rpm Balanced

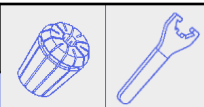
**DIN
6499**

GHIERE ER TIPO STANDARD
ER CLAMPING NUTS STANDARD TYPE

GS



FILETTO DESTRO
RIGHT THREAD



TIPO	Art.	A	B	C		
GS 16	4993	32	17,5	22 x 1,5	0364	3698
GS 20	4994	35	19,0	25 x 1,5	0787	3699
GS 25	4995	42	20,0	32 x 1,5	0996	3669
GS 32	4996	50	22,5	40 x 1,5	0988	3670
GS 40	4997	63	25,5	50 x 1,5	0821	3671
GS 50	4998	78	35,5	64 x 2,0	4055	3668

FILETTO SINISTRO
LEFT THREAD



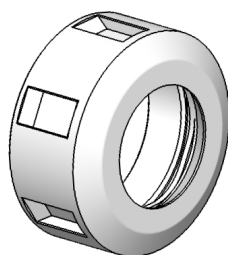
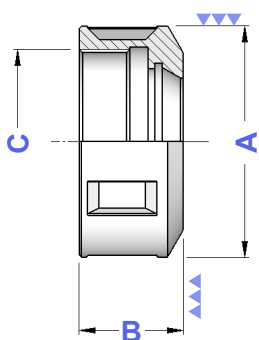
TIPO	Art.	A	B	C		
GS 16 L	3071	32	17,5	22 x 1,5 SX	0364	3698
GS 20 L	3072	35	19,0	25 x 1,5 SX	0787	3699
GS 25 L	3073	42	20,0	32 x 1,5 SX	0996	3669
GS 32 L	3074	50	22,5	40 x 1,5 SX	0988	3670
GS 40 L	3075	63	25,5	50 x 1,5 SX	0821	3671

G 6,3 - 15.000 rpm Balanced

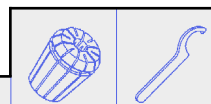
**DIN
6499**

GHIERE ER CON PRESA DI CHIAVE LATERALE
ER CLAMPING NUTS WITH SIDE WRENCH SLOTS

GT



FILETTO DESTRO
RIGHT THREAD



TIPO	Art.	A	B	C		
GT 11	5090	20	11,3	14 x 0,75	5573	2880
GT 16	5091	32	17,5	22 x 1,5	0364	2881
GT 20	5092	35	19,0	25 x 1,5	0787	2882
GT 25	5093	42	20,0	32 x 1,5	0996	2883
GT 32	5094	50	22,5	40 x 1,5	0988	2908
GT 40	5095	63	25,5	50 x 1,5	0821	2909

FILETTO SINISTRO
LEFT THREAD



TIPO	Art.	A	B	C		
GT 11 L	5753	20	11,3	14 x 0,75	5573	2880
GT 16 L	5755	32	17,5	22 x 1,5	0364	2881
GT 20 L	5756	35	19,0	25 x 1,5	0787	2882
GT 25 L	5757	42	20,0	32 x 1,5	0996	2883
GT 32 L	5758	50	22,5	40 x 1,5	0988	2908
GT 40 L	5759	63	25,5	50 x 1,5	0821	2909

L'assenza di fresature nella parte frontale della ghiera ne rende silenziosa la rotazione.

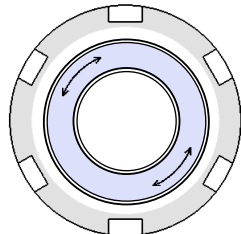
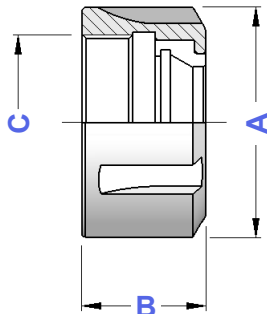
Le ghiera tipo GT hanno l'esterno rettificato

Absence of drillings on nut front side makes its spin noiseless

Nuts GT type are grinded outside

DIN
6499GHIERE ER CON RALLA GIREVOLE
ER NUTS WITH ROTATING RING

GC

FILETTO DESTRO
RIGHT THREAD

TIPO	Art.	A	B	C		
GC 16	4954	32	20,0	22 x 1,5	0364	3698
GC 20	4955	35	22,0	25 x 1,5	0787	3699
GC 25	3697	42	22,5	32 x 1,5	0996	3669
GC 32	2911	50	25,0	40 x 1,5	0988	3670
GC 40	2912	63	28,0	50 x 1,5	0821	3671

CARATTERISTICHE E VANTAGGI

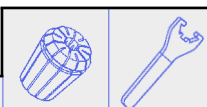
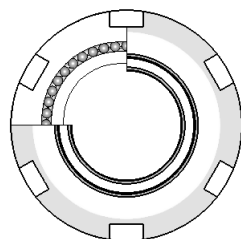
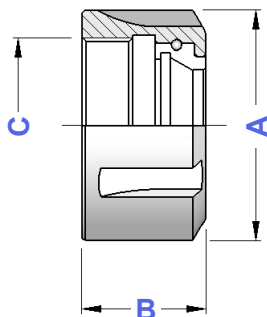
- La mancanza di sfere nella ralla rende questa ghiera meno soggetta a rotture.
- Aumenta sensibilmente la forza di serraggio della pinza.
- Evita la torsione della pinza riducendone l'attrito con la sua sede e conseguentemente ne preserva la precisione.
- E' intercambiabile con le normali ghiera standard ed esagonali.
- Al fine di preservarne l'integrità nel tempo, la ralla girevole viene sottoposta ad un trattamento di rivestimento al **NIPLOY**.
- Contrariamente alle ghiera GC-B con cuscinetto a sfere, queste ghiera GC sono consigliate per **alte velocità**.

CHARACTERISTICS AND ADVANTAGES

- Lack of balls in rotary ring, makes this nut less liable to breakages.
- Collet clamping force is sensitively increased.
- Avoids collet torsion reducing friction with its seat and consequently preserves its accuracy.
- Is interchangeable with standard and hexagonal nuts.
- With the object to preserve its integrity along times, rotary ring is subjected to a **NIPLOY** covering treatment.
- Contrary to GC-B nuts with ball bearing, those GC nuts are recommended for **high speed**.

DIN
6499GHIERE ER CON RALLA GIREVOLE
VERSIONE SPECIALE CON CIRCOLAZIONE DI SFERE
ER NUTS WITH ROTATING RING - SPECIAL BALL BEARING EXECUTION

GC-B

FILETTO DESTRO
RIGHT THREAD

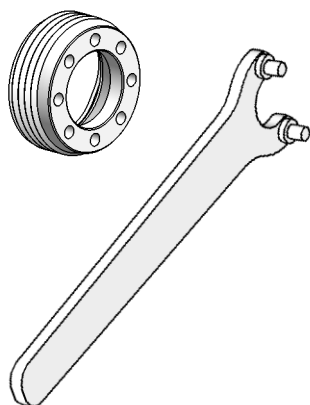
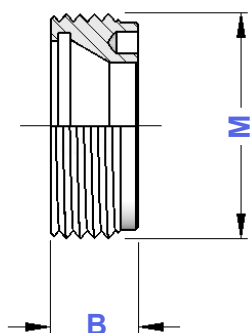
TIPO	Art.	A	B	C		
GC 16 B	2713	32	20,0	22 x 1,5	0364	3698
GC 20 B	2714	35	22,0	25 x 1,5	0787	3699
GC 25 B	2715	42	22,5	32 x 1,5	0996	3669
GC 32 B	2716	50	25,0	40 x 1,5	0988	3670
GC 40 B	2717	63	28,0	50 x 1,5	0821	3671
GC 50 B	2913	78	40,0	64 x 2,0	4055	3668
GC 60 B	5714	83	36,0	70 x 1,5	4056	—



CARATTERISTICHE E VANTAGGI

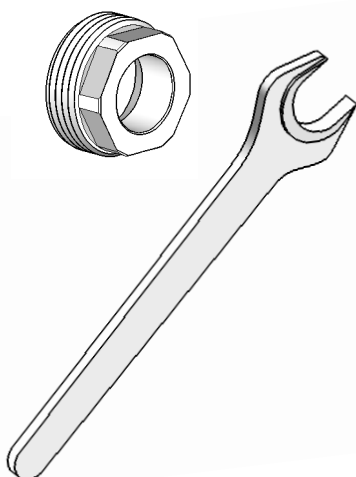
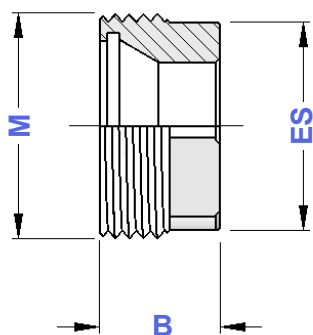
- Aumenta la forza di serraggio della pinza.
- Evita la torsione della pinza riducendone l'attrito con la sua sede e conseguentemente ne preserva la precisione.
- E' intercambiabile con le normali ghiera standard ed esagonali.



CHARACTERISTICS AND ADVANTAGES

- Collet clamping force is increased.
- Avoids collet torsion reducing friction with its seat and consequently preserves its accuracy.
- Is interchangeable with standard and hexagonal nuts.

**DIN
6499****GHIERE ER CON FILETTO ESTERNO - TIPO "A"**
ER CLAMPING NUTS WITH OUTSIDE THREAD - "A" TYPE**GA**

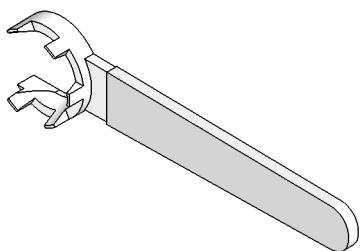
TIPO	Art.	B	M		
GA 11	2867	6,0	18 x 1,0	5573	3169
GA 16	2868	8,0	24 x 1,0	0364	3170
GA 20	2869	11,0	28 x 1,5	0787	3171
GA 25	2870	12,5	32 x 1,5	0996	3172
GA 32	2871	14,0	40 x 1,5	0988	3173

**DIN
6499****GHIERE ER CON FILETTO ESTERNO - TIPO "A"**
VERSIONE SPECIALE CON PRESA DI CHIAVE ESAGONALE
ER NUTS WITH OUTSIDE THREAD - SPECIAL EXECUTION WITH HEXAGONAL HOLD**GA-E**

TIPO	Art.	ES	B	M		
GA 11 E	2601	13	10,0	18 x 1,0	5573	5491
GA 16 E	2606	19	11,0	24 x 1,0	0364	5492
GA 20 E	2610	22	14,0	28 x 1,5	0787	5493
GA 25 E	2611	27	14,0	32 x 1,5	0996	5494
GA 32 E	2612	32	17,5	40 x 1,5	0988	5495
GA 40 E	2613	42	17,1	50 x 1,5	0821	5496

DIN 6499 MINI

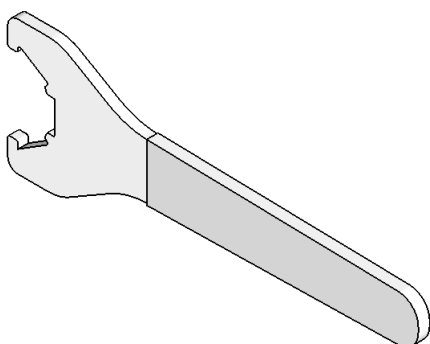
CHIAVI ER PER GHIERE MINI ER WRENCHES FOR MINI CLAMPING NUTS



TIPO	Art.	
CH 8 Mini	5717	0373
CH 11 Mini	5718	0432
CH 16 Mini	5719	1229
CH 20 Mini	5720	1230
CH 25 Mini	5721	1231

DIN 6499 ST

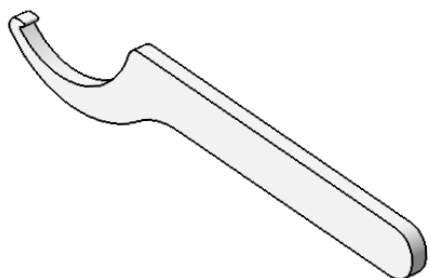
CHIAVI ER PER GHIERE STANDARD ER WRENCHES FOR STANDARD CLAMPING NUTS



TIPO	Art.	
CH 16 ST	3698	4993
CH 20 ST	3699	4994
CH 25 ST	3669	4995
CH 32 ST	3670	4996
CH 40 ST	3671	4997
CH 50 ST	3668	4998

DIN 6499 GT

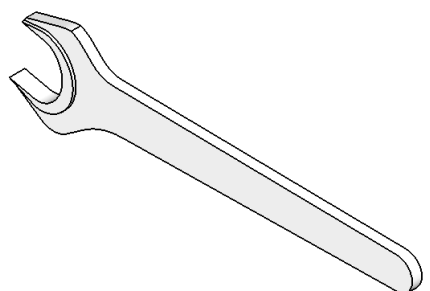
CHIAVI ER PER GHIERE CON PRESA LATERALE ER WRENCHES FOR SIDE GRIP CLAMPING NUTS



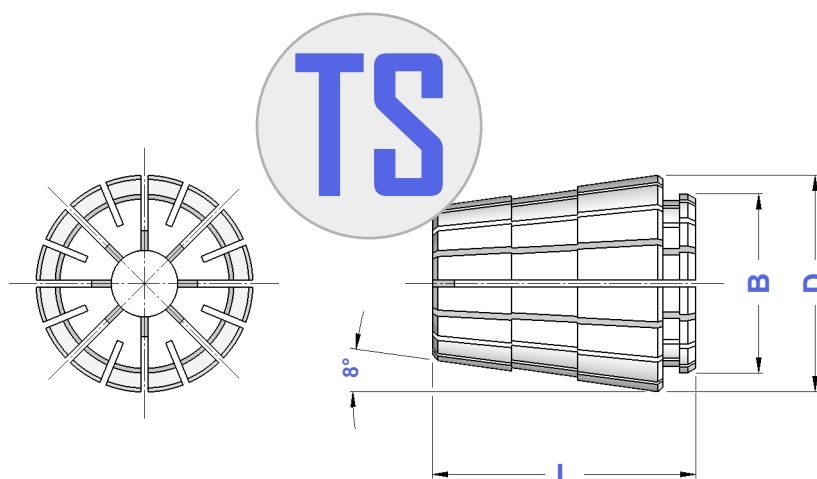
TIPO	Art.	
CH 11 GT	2880	5090
CH 16 GT	2881	5091
CH 20 GT	2882	5092
CH 25 GT	2883	5093
CH 32 GT	2908	5094
CH 40 GT	2909	5095

DIN 6499 CE

CHIAVI ER PER GHIERE ESAGONALI ER WRENCHES FOR EXAGONAL CLAMPING NUTS



TIPO	Art.	
CH 11 CE	2905	1157
CH 12 CE	2905	0342
CH 16 CE	2906	1214
CH 20 CE	2907	1215



TIPO	Art.	CAPACITA'	D	B	L	PROGRESSIONE
TS 16	5200	1 ÷ 10	17	13,6	24,0	mm 0,5
TS 20	5201	2 ÷ 13	21	17,0	30,5	mm 0,5
TS 25	5202	2 ÷ 16	26	21,0	34,0	mm 0,5
TS 32	5203	3 ÷ 20	33	27,2	40,0	mm 0,5
TS 40	5204	4 ÷ 26	41	32,0	46,0	mm 0,5

Le pinze TS sono intercambiabili con le normali pinze ER (DIN 6499) grazie alla medesima conicità posteriore di 8°.

Per poterle montare su un normale portapinza ER è necessaria la sostituzione della ghiera essendo diversa la parte anteriore.

Caratteristiche: - elevata precisione del sistema
- ottima resa alle alte velocità

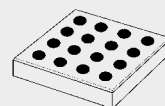
TS collets are interchangeable with ER collets (DIN 6499) thanks to the same 8° rear taper.

To fit them in a standard ER collet chuck, a nut replacement is needed because of the difference in fore part of the collet.

Characteristics: - system with high precision
- an excellent yield in high speed

CONTENITORI E CASSETTE VUOTI PER PINZE TS
EMPTY TRAYS AND CASES FOR TS COLLETS

CONTENITORE VUOTO



CASSETTA VUOTA

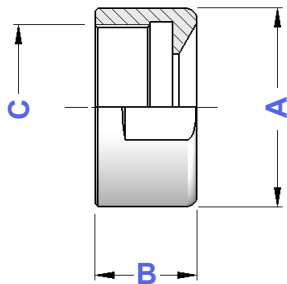
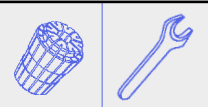


TIPO PINZA TS	N° SEDI	ARTICOLO	ARTICOLO
TS 16	16	3674	3692
TS 20	16	3675	3693
TS 25	20	3676	3695
TS 32	20	3677	3695
TS 40	28	3678	3695

G 6,3 - 15.000 rpm Balanced

GM-TS

GHIERE MINI PER PINZE TS MINI CLAMPING NUTS FOR TS COLLETS

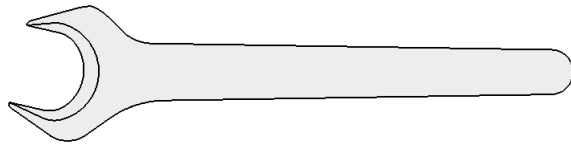


TIPO	Art.	A	B	C		
GM 16 TS	5290	24,0	15,0	19 x1,00	5200	5240
GM 20 TS	5291	30,5	16,5	24 x1,00	5201	5241
GM 25 TS	5292	36,0	18,5	30 x1,00	5202	5242

Le ghiera tipo Mini per pinze TS hanno il medesimo filetto delle normali ghiera ER (DIN 6499) rendendo così completamente intercambiabili i due sistemi.

Mini nuts for TS collets have the same thread than ER Mini nuts; this makes those systems interchangeable .

CHIAVI PER GHIERE TS MINI WRENCHES FOR MINI TS CLAMPING NUTS

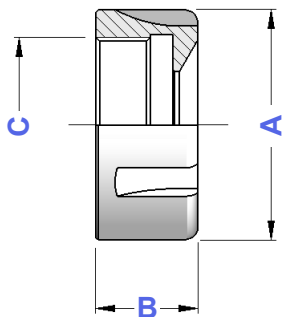
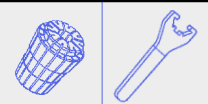


TIPO	Art.	
CH 16 TS/Mini	5240	5290
CH 20 TS/Mini	5241	5291
CH 25 TS/Mini	5242	5292

G 6,3 - 15.000 rpm Balanced

GS-TS

GHIERE STANDARD PER PINZE TS STANDARD CLAMPING NUTS FOR TS COLLETS

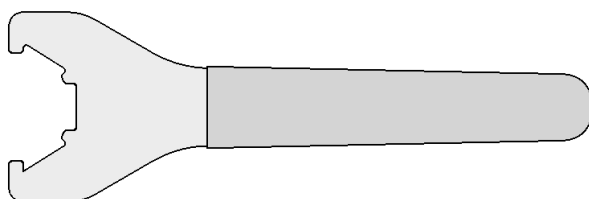


TIPO	Art.	A	B	C		
GS 16 TS	5294	32	15,0	22 x1,5	5200	3698
GS 20 TS	5295	35	16,5	25 x1,5	5201	3699
GS 25 TS	5296	42	18,5	32 x1,5	5202	3669
GS 32 TS	5297	50	22,0	40 x1,5	5203	3670
GS 40 TS	5298	63	25,0	50 x1,5	5204	3671

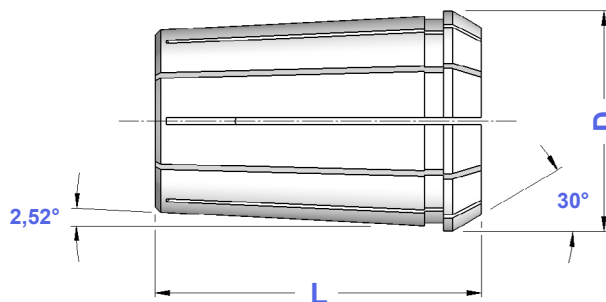
Le ghiera tipo Standard per pinze TS hanno il medesimo filetto delle normali ghiera ER (DIN 6499) rendendo così completamente intercambiabili i due sistemi.

Standard nuts for TS collets have the same thread than ER Standard nuts; this makes those systems interchangeable .

CHIAVI PER GHIERE TS STANDARD WRENCHES FOR STANDARD TS CLAMPING NUTS



TIPO	Art.	
CH 16 TS	3698	5294
CH 20 TS	3699	5295
CH 25 TS	3669	5296
CH 32 TS	3670	5297
CH 40 TS	3671	5298



TIPO	Art.	CAPACITA'	PROGRESSIONE	D	L	Einheits
EOC 6	0578	1 ÷ 6	mm 0,5	11,50	21	400E
EOC 8	0624	1 ÷ 8	mm 0,5	14,50	26	401E
EOC 10	0633	1 ÷ 10	mm 0,5	17,20	30	404E
EOC 12	0645	1 ÷ 12	mm 0,5	19,80	34	407E
EOC 16	0768	2 ÷ 16	mm 0,5	25,50	40	415E
EOC 20	0783	2 ÷ 20	mm 0,5	29,80	45	4541E
EOC 25	0769	2 ÷ 25	mm 0,5	35,05	52	462E
EOC 32	0770	3 ÷ 32	mm 0,5	43,70	60	467E
EOC 40	0802	8 ÷ 40	mm 0,5	52,20	68	468E



SERIE RIDOTTA DI PINZE EOC
REDUCED SETS OF EOC COLLETS

TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
EOC 16 - Ridotto	∅ 4 - 6 - 8 - 10 - 12 - 16	6	7010	7016
EOC 25 - Ridotto	∅ 6 - 8 - 10 - 12 - 16 - 20 - 25	7	7011	7017
EOC 32 - Ridotto	∅ 6 - 8 - 10 - 12 - 16 - 20 - 25 - 32	8	7012	7018

IN CONTENITORE
DI CARTONE
IN CARTON BOX



ARTICOLO

IN CASSETTA
IN CASE



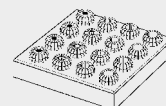
ARTICOLO



SERIE COMPLETA DI PINZE EOC
COMPLETE SETS OF EOC COLLETS

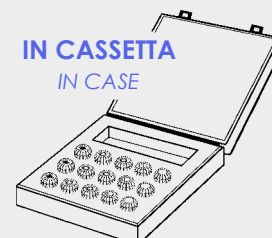
TIPO	DIAMETRI	N° PINZE	ARTICOLO	ARTICOLO
EOC 16 - Completo	da ∅ 2 a ∅ 16	15	7013	7019
EOC 25 - Completo	da ∅ 2 a ∅ 25	24	7014	7020
EOC 32 - Completo	da ∅ 4 a ∅ 32	29	7015	7021

IN CONTENITORE
DI CARTONE
IN CARTON BOX



ARTICOLO

IN CASSETTA
IN CASE

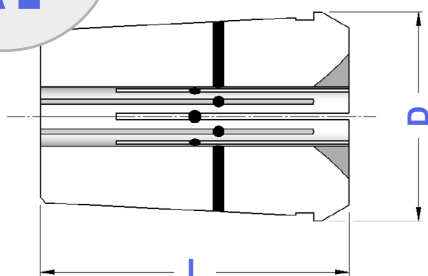
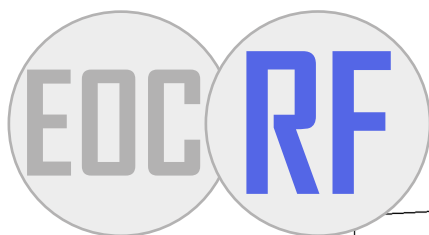


ARTICOLO

E' possibile completare tutte le cassette di corredo con il portapinza e la chiave di vostro interesse
It is possible to complete all sets in case with collet chuck and wrench you need

**DIN
6388**

PINZE EOC A TENUTA STAGNA
WATERTIGHT EOC COLLETS



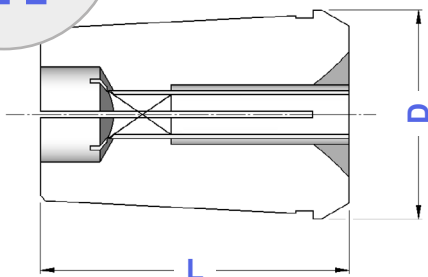
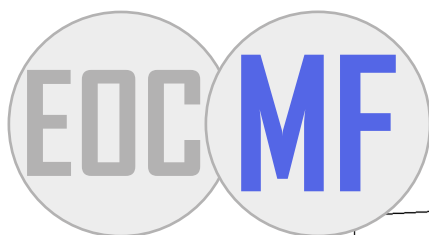
**Pinze con inserti in neoprene
e passaggio centrale del refrigerante.**
Pressione di esercizio: max 40 Bar / 600 PSI
Bloccano solo il diametro nominale.

*Collets with neoprene insertions and
coolant only through the collet hole.*
Working pressure: max 40 Bar / 600 PSI
Those collets clamp only nominal diameter.

TIPO	Art.	CAPACITA'	D	L	PROGRESSIONE
EOC 12 RF	0645 RF	1 ÷ 12	19,90	34	mm 0,5
EOC 16 RF	0768 RF	2 ÷ 16	25,50	40	mm 0,5
EOC 20 RF	0783 RF	3 ÷ 20	30,00	45	mm 0,5
EOC 25 RF	0769 RF	3 ÷ 25	35,05	52	mm 0,5
EOC 32 RF	0770 RF	4 ÷ 32	44,00	60	mm 0,5

**DIN
6388**

PINZE EOC CON QUADRO PER MASCHIATURA
EOC TAPPING COLLETS WITH SQUARE



**Il quadro di trascinamento per il maschio
è ricavato sul fondo della pinza.**

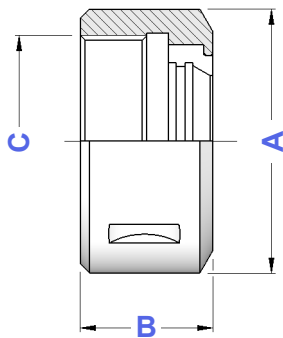
*Tap drag square got out
on the bottom of the collet.*

TIPO	Art.	CAPACITA'	D	L
EOC 16 - con Quadro	0768 MF	da Ø3,5 a Ø12,0	25,50	40
EOC 20 - con Quadro	0783 MF	da Ø3,5 a Ø16,0	30,00	45
EOC 25 - con Quadro	0769 MF	da Ø3,5 a Ø20,0	35,05	52
EOC 32 - con Quadro	0770 MF	da Ø3,5 a Ø28,0	44,00	60

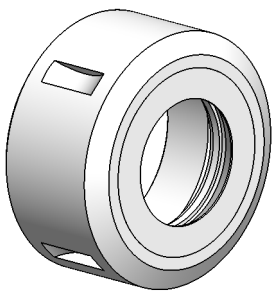
DIN 6388

GHIERE GOC PER PINZE EOC

GOC CLAMPING NUTS FOR EOC COLLETS

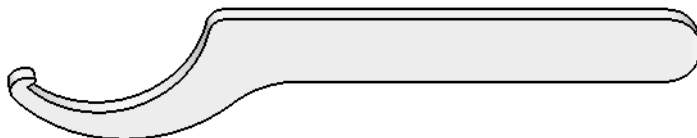


TIPO	Art.	A	B	C		
GOC 6	8641	18	14,0	14 x 1,0	0578	2880
GOC 8	8642	26	19,0	20 x 1,5	0624	2820
GOC 10	8643	30	19,0	22 x 1,5	0633	2881
GOC 12	8644	35	20,0	27 x 1,5	0645	2882
GOC 16	4067	43	24,0	33 x 1,5	0768	2883
GOC 20	4008	50	28,0	42 x 2,0	0783	2908
GOC 25	4068	60	30,0	48 x 2,0	0769	2909
GOC 32	4069	72	33,5	60 x 2,5	0770	2910
GOC 40	8645	85	37,0	68 x 2,5	0802	2836

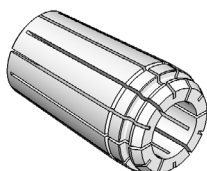


CHIAVI PER GHIERE GOC

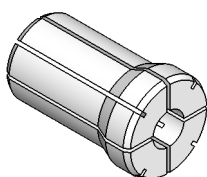
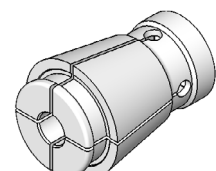
WRENCHES FOR GOC NUTS



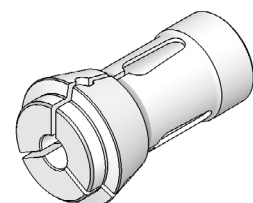
TIPO	Art.	
CH 6 GOC	2880	8641
CH 8 GOC	2820	8642
CH 10 GOC	2881	8643
CH 12 GOC	2882	8644
CH 16 GOC	2883	4067
CH 20 GOC	2908	4008
CH 25 GOC	2909	4068
CH 32 GOC	2910	4069
CH 40 GOC	2836	8645



Tutti gli altri tipi di pinze
li potete trovare
nel paragrafo "Pinze"
da pag. 201 a pag. 215



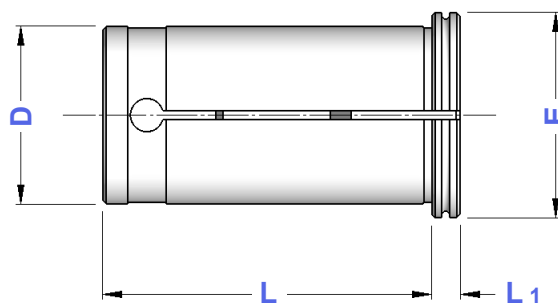
All other types of collets
you will find
in "Collets" paragraph
from page 201 to 215



PC

PINZE CILINDRICHE PER MANDRINI A FORTE SERRAGGIO

CYLINDRICAL COLLETS FOR HIGH GRIP DEVICES

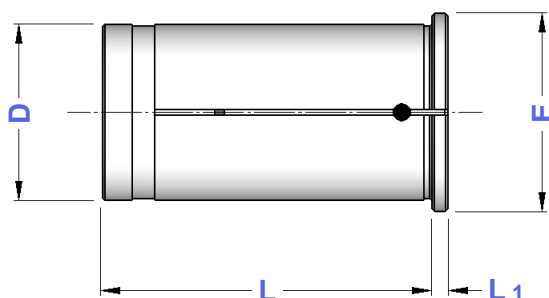


TIPO	Art.	D	E	L	L1	CAPACITA'
PC20	0809	20	25	50	5	∅ 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18
PC25	0820	25	30	55	5	∅ 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23
PC32	0810	32	37	60	5	∅ 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30

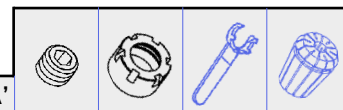
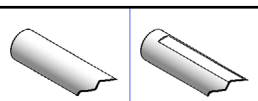
PH

PINZE CILINDRICHE A TENUTA STAGNA PER MANDRINI IDRAULICI

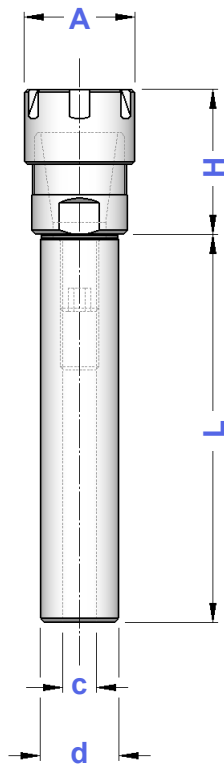
WATERTIGHT CYLINDRICAL COLLETS FOR HYDRAULIC CHUCKS

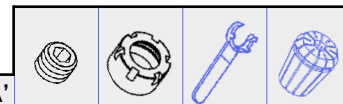
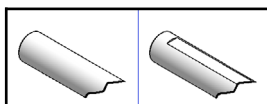






TIPO	Art.	D	E	L	L1	CAPACITA'
PH 12	0520	12	16	44,5	2	∅ 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
PH 20	0521	20	24	50,5	2	∅ 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18
PH 25	0676	25	30	56,5	3	∅ 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22
PH 32	0522	32	36	60,5	3	∅ 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28

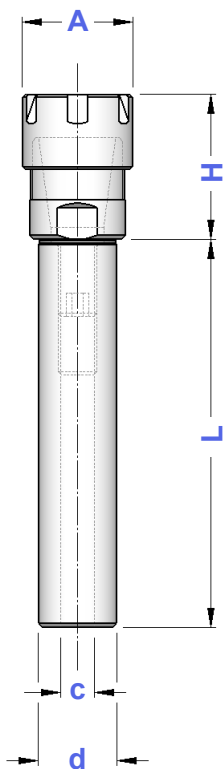


TIPO	Senza Piano	Con Piano	H	A	C	CAPACITA'				
d 5 - ER 8GM /L 45	3207	—	24	12	—	1 ÷ 5	—	0373	5717	0554
d 6 - ER 8GM /L 45	0394	—	24	12	—	1 ÷ 5	—	0373	5717	0554
d 6 - ER11 GM /L 45	0157	—	25	16	—	1 ÷ 7	—	0432	5718	5573
d 7 - ER11 GM /L 45	0187	—	25	16	—	1 ÷ 7	—	0432	5718	5573
d 8 - ER 8GM /L 55	0395	—								
d 8 - ER 8GM /L 80	0155	—	24	12	—	1 ÷ 5	—	0373	5717	0554
d 8 - ER 8GM /L 100	2000	—								
d 8 - ER 8GM /L 130	2001	—								
d 8 - ER11 GM /L 55	2889	—	25	16	—	1 ÷ 7	—	0432	5718	5573
d 8 - ER11 GM /L 100	2894	—								
d 8 - ER16 GM /L 55	2026	—	37	22	—	1 ÷ 10	—	1229	5719	0364
d 8 - ER16 GM /L 100	2027	—								
d 10 - ER 8GM /L 55	2937	—								
d 10 - ER 8GM /L 80	5138	—	24	12	5	1 ÷ 5	0173	0373	5717	0554
d 10 - ER 8GM /L 100	2938	—								
d 10 - ER 8GM /L 130	5139	—								
d 10 - ER11 GM /L 55	2890	—	25	16	5	1 ÷ 7	0173	0432	5718	5573
d 10 - ER11 GM /L 80	5140	—								
d 10 - ER11 GM /L 100	2896	—								
d 10 - ER11 GM /L 130	5141	—								
d 10 - ER16 GM /L 60	2891	—	37	22	5	1 ÷ 10	0173	1229	5719	0364
d 10 - ER16 GM /L 80	5142	—								
d 10 - ER16 GM /L 100	2956	—								
d 12 - ER 8GM /L 55	2002	—								
d 12 - ER 8GM /L 70	5143	—	15	12	5	1 ÷ 5	0173	0373	5717	0554
d 12 - ER 8GM /L 100	2962	—								
d 12 - ER 8GM /L 140	2991	—								
d 12 - ER11 GM /L 55	2892	—	25	16	7	1 ÷ 7	0181	0432	5718	5573
d 12 - ER11 GM /L 70	3208	—								
d 12 - ER11 GM /L 100	3003	—								
d 12 - ER11 GM /L 140	0217	—								
d 12 - ER16 GM /L 55	2893	—	37	22	7	1 ÷ 10	0181	1229	5719	0364
d 12 - ER16 GM /L 80	3209	—								
d 12 - ER16 GM /L 120	3214	—								
d 15 - ER20 GM /L 100	3210	—	41	28	9	1 ÷ 13	0183	1230	5720	0787
d 16 - ER11 GM /L 40	0214	—								
d 16 - ER11 GM /L 60	0292	—								
d 16 - ER11 GM /L 80	0441	—	22	16	7	1 ÷ 7	0181	0432	5718	5573
d 16 - ER11 GM /L 100	2963	—								
d 16 - ER11 GM /L 130	3903	—								
d 16 - ER11 GM /L 160	3904	—								
d 16 - ER11 GM /L 200	3913	—								
d 16 - ER16 GM /L 35	2591	—								
d 16 - ER16 GM /L 60	3211	—								
d 16 - ER16 GM /L 80	3212	—								
d 16 - ER16 GM /L 100	3226	—	37	22	7	1 ÷ 10	0181	1229	5719	0364
d 16 - ER16 GM /L 130	3393	—								
d 16 - ER16 GM /L 160	3490	—								
d 16 - ER16 GM /L 200	2005	—								
d 16 - ER20 GM /L 55	2895	—	40	28	9	1 ÷ 13	0183	1230	5720	0787
d 16 - ER20 GM /L 100	3213	—								
d 16 - ER20 GM /L 130	2982	—								
d 16 - ER20 GM /L 160	2983	—								



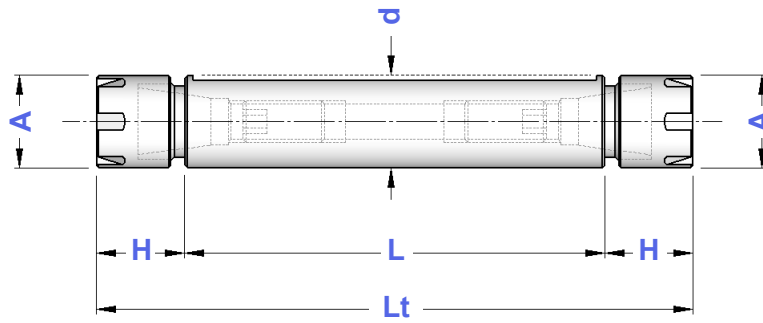


TIPO	Senza Piano	Con Piano	H	A	C	CAPACITA'				
d 19,05 - ER11GM/L 50 d 19,05 - ER11GM/L 100	— —	0189 3013	18	16	7	1 ÷ 7	0181	0432	5718	5573
d 19,05 - ER16GM/L 60 d 19,05 - ER16GM/L 100	— —	0215 3394	30	22	11	1 ÷ 10	0186	1229	5719	0364
d 19,05 - ER20GM/L 50 d 19,05 - ER20GM/L 100	— —	0226 3397	37	28	11	1 ÷ 13	0186	1230	5720	0787
d 19,05 - ER25GM/L 50 d 19,05 - ER25GM/L 100	— —	2897 3037	46	35	11	1 ÷ 16	0186	1231	5721	0996
d 20 - ER11 GM /L 50 d 20 - ER11 GM /L 100 d 20 - ER11 GM /L 130 d 20 - ER11 GM /L 160 d 20 - ER11 GM /L 200	0216 SP 1222 SP 2042 SP 2043 SP 5144 SP	0216 P 1222 P 2042 P 2043 P 5144 P	22	16	7	1 ÷ 7	0181	0432	5718	5573
d 20 - ER16 GM /L 60 d 20 - ER16 GM /L 100 d 20 - ER16 GM /L 130 d 20 - ER16 GM /L 160 d 20 - ER16 GM /L 200 d 20 - ER16 GM /L 250	3905 SP 3520 SP 3909 SP 3521 SP 3522 SP 3528 SP	3905 P 3520 P 3909 P 3521 P 3522 P 3528 P	30	22	11	1 ÷ 10	0186	1229	5719	0364
d 20 - ER20 GM /L 46 d 20 - ER20 GM /L 60 d 20 - ER20 GM /L 100 d 20 - ER20 GM /L 130 d 20 - ER20 GM /L 160 d 20 - ER20 GM /L 200 d 20 - ER20 GM /L 250	3215 SP 0220 SP 3216 SP 3217 SP 0225 SP 3227 SP 3285 SP	3215 P 0220 P 3216 P 3217 P 0225 P 3227 P 3285 P	37	28	11	1 ÷ 13	0186	1230	5720	0787
d 20 - ER25 GM /L 46 d 20 - ER25 GM /L 60 d 20 - ER25 GM /L 100 d 20 - ER25 GM /L 130 d 20 - ER25 GM /L 160	2899 SP 3906 SP 3218 SP 0228 SP 3319 SP	2899 P 3906 P 3218 P 0228 P 3319 P	46	35	11	1 ÷ 16	0186	1231	5721	0996
d 22 - ER16 GM /L 80 d 22 - ER20 GM /L 80	— —	0408 0412	27 30	22 28	11 11	1 ÷ 10 1 ÷ 13	0186 0186	1229 1230	5719 5720	0364 0787
d 25 - ER11 GM /L 100 d 25 - ER11 GM /L 130 d 25 - ER11 GM /L 160	0451 SP 5145 SP 5146 SP	0451 P 5145 P 5146 P	18	16	7	1 ÷ 7	0181	0432	5718	5573
d 25 - ER16 GM /L 60 d 25 - ER16 GM /L 100 d 25 - ER16 GM /L 130 d 25 - ER16 GM /L 160 d 25 - ER16 GM /L 200	0218 SP 0219 SP 0231 SP 3029 SP 3063 SP	0218 P 0219 P 0231 P 3029 P 3063 P	27	22	11	1 ÷ 10	0186	1229	5719	0364
d 25 - ER20 GM /L 60 d 25 - ER20 GM /L 100 d 25 - ER20 GM /L 130 d 25 - ER20 GM /L 160 d 25 - ER20 GM /L 200	3907 SP 0221 SP 0222 SP 3219 SP 4004 SP	3907 P 0221 P 0222 P 3219 P 4004 P	28	28	13	1 ÷ 13	0188	1230	5720	0787
d 25 - ER25 GM /L 50 d 25 - ER25 GM /L 70 d 25 - ER25 GM /L 100 d 25 - ER25 GM /L 130 d 25 - ER25 GM /L 160 d 25 - ER25 GM /L 200	0227 SP 3908 SP 0426 SP 0446 SP 0449 SP 0462 SP	0227 P 3908 P 0426 P 0446 P 0449 P 0462 P	32	35	13	1 ÷ 16	0188	1231	5721	0996
d 25,4-ER16 GM /L 60 d 25,4-ER16 GM /L 100 d 25,4-ER16 GM /L 140	— — —	3030 3031 3038	27	22	11	1 ÷ 10	0186	1229	5719	0364
d 25,4-ER20 GM /L 70 d 25,4-ER20 GM /L 100 d 25,4-ER20 GM /L 140	— — —	3912 0421 0422	28	28	13	1 ÷ 13	0188	1230	5720	0787
d 25,4-ER25 GM /L 70 d 25,4-ER25 GM /L 100 d 25,4-ER25 GM /L 140	— — —	3914 0433 0440	32	35	13	1 ÷ 16	0188	1231	5721	0996
d 32 - ER16 GM /L 90 d 32 - ER20 GM /L 90	— —	3395 3396	30 28	22 28	11 13	1 ÷ 10 1 ÷ 13	0186 0188	1229 1230	5719 5720	0364 0787



DIN 1835 A

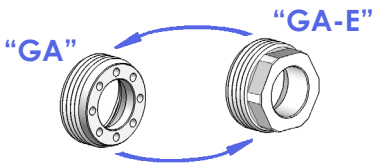
PORTAPINZE ER DOPPI CON ATTACCO CILINDRICO - GHIERA MINI STRAIGHT SHANK ER - DIN 6499 DOUBLE COLLET CHUCKS - MINI NUT



TIPO	Art.	H	Lt	A	CAPACITA'				
d 20 DP - ER 11 GM / L 42	8779	14,0	70			0021			
d 20 DP - ER 11 GM / L 52	8780	14,0	80	16	1 ÷ 7	0375	0432	5718	5573
d 20 DP - ER 11 GM / L 62	8781	14,0	90			0375			
d 20 DP - ER 16 GM / L 37	8782	21,5	80			—			
d 20 DP - ER 16 GM / L 57	8783	21,5	100	22	1 ÷ 10	0060	1229	5719	0364
d 20 DP - ER 16 GM / L 67	8784	21,5	110			0376			
d 20 DP - ER 16 GM / L 122	8988	21,5	165			0376			
d 22 DP - ER 16 GM / L 47	8785	21,5	90			0060			
d 22 DP - ER 16 GM / L 67	8786	21,5	110	22	1 ÷ 10	0376	1229	5719	0364
d 22 DP - ER 16 GM / L 102	8787	21,5	145			0186			
d 25 DP - ER 16 GM / L 27	8788	21,5	70			—			
d 25 DP - ER 16 GM / L 47	8789	21,5	90	22	1 ÷ 10	0060	1229	5719	0364
d 25 DP - ER 16 GM / L 67	8790	21,5	110			0376			
d 25 DP - ER 20 GM / L 82	8791	24,0	130	28	1 ÷ 13	0186	1230	5720	0787
d 32 DP - ER 20 GM / L 57	8792	24,0	105			0060			
d 32 DP - ER 20 GM / L 82	8793	24,0	130	28	1 ÷ 13	0186	1230	5720	0787

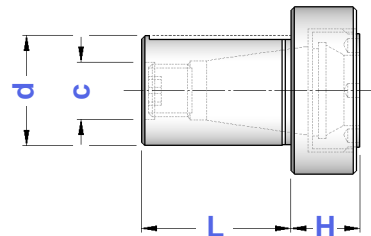
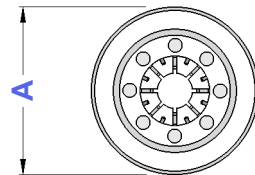
DIN 1835 A

PORTAPINZE ER CON ATTACCO CILINDRICO - GHIERA INTERNA "A" STRAIGHT SHANK ER - DIN 6499 COLLET CHUCKS - INSIDE NUT "GA" TYPE

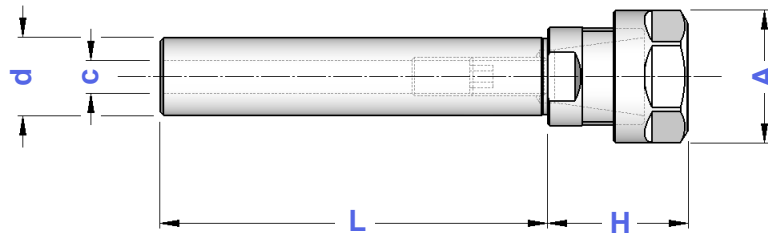


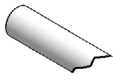
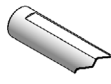




La ghiera tipo "GA" può essere sostituita con quella tipo "GA-E" che ha presa di chiave esagonale.

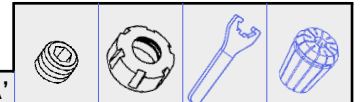
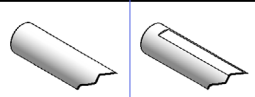
Nut "GA" type can be substituted by "GA-E" type with hexagonal wrench hold.



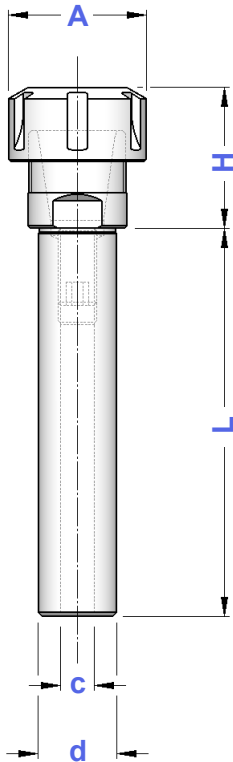
TIPO	Art.	H	L	A	C	CAPACITA'				
d 20 - ER 16 GA	2939	14	34	32	11	1 ÷ 10	0060	2868	3170	0364
d 25 - ER 20 GA	3200	18	34	38	13	1 ÷ 13	0200	2869	3171	0787
d 32 - ER 20 GA	2940	16	36	38	13	1 ÷ 13	0200	2869	3171	0787
d 32 - ER 25 GA	2942	19	36	40	19	1 ÷ 16	0190	2870	3172	0996
d 40 - ER 32 GA	2943	21	45	48	23	2 ÷ 20	0191	2871	3173	0998

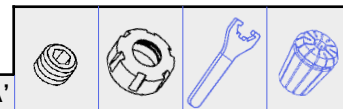
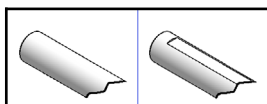


TIPO	 		H	A	C	CAPACITA'												
	Senza Piano	Con Piano																
d 14 - ER 16 GE / L 60	5244	—	36	28	7	1 ÷ 10	0181	1214	2906	0364								
d 16 - ER 16 GE / L 60	5245	—	36	28	7	1 ÷ 10	0181	1214	2906	0364								
d 16 - ER 16 GE / L 80	5246	—																
d 16 - ER 16 GE / L 100	5247	—																
d 16 - ER 16 GE / L 130	5248	—																
d 16 - ER 16 GE / L 160	5249	—																
d 16 - ER 16 GE / L 200	5250	—																
d 16 - ER 20 GE / L 60	5251	—	40	34	9	1 ÷ 13	0183	1215	2907	0787								
d 19,05 - ER 16 GE / L 50	—	5252	32	28	11	1 ÷ 10	0186	1214	2906	0364								
d 19,05 - ER 16 GE / L 100	—	5253																
d 19,05 - ER 20 GE / L 50	—	5254	36	34	11	1 ÷ 13	0186	1215	2907	0787								
d 19,05 - ER 20 GE / L 100	—	5255																
d 20 - ER 16 GE / L 50	5256 SP	5256 P	31	28	11	1 ÷ 10	0186	1214	2906	0364								
d 20 - ER 16 GE / L 100	5257 SP	5257 P																
d 20 - ER 16 GE / L 130	5258 SP	5258 P																
d 20 - ER 16 GE / L 160	5259 SP	5259 P																
d 20 - ER 16 GE / L 200	5260 SP	5260 P																
d 20 - ER 20 GE / L 46	5261 SP	5261 P									36	34	11	1 ÷ 13	0186	1215	2907	0787
d 20 - ER 20 GE / L 60	5262 SP	5262 P																
d 20 - ER 20 GE / L 100	5263 SP	5263 P																
d 20 - ER 20 GE / L 130	5264 SP	5264 P																
d 20 - ER 20 GE / L 160	5265 SP	5265 P																
d 20 - ER 20 GE / L 200	5266 SP	5266 P																
d 22 - ER 16 GE / L 80	—	5267	26	28	11	1 ÷ 10	0186	1214	2906	0364								
d 22 - ER 20 GE / L 80	—	5268	36	34	11	1 ÷ 13	0186	1215	2907	0787								
d 25 - ER 16 GE / L 60	5269 SP	5269 P	27	28	11	1 ÷ 10	0186	1214	2906	0364								
d 25 - ER 16 GE / L 100	5270 SP	5270 P																
d 25 - ER 16 GE / L 130	5271 SP	5271 P																
d 25 - ER 16 GE / L 160	5272 SP	5272 P																
d 25 - ER 16 GE / L 200	5273 SP	5273 P																
d 25 - ER 20 GE / L 60	5274 SP	5274 P									28	34	13	1 ÷ 13	0188	1215	2907	0787
d 25 - ER 20 GE / L 100	5275 SP	5275 P																
d 25 - ER 20 GE / L 130	5276 SP	5276 P																
d 25 - ER 20 GE / L 160	5277 SP	5277 P																
d 25,4 - ER 16 GE / L 60	—	5278	27	28	11	1 ÷ 10	0186	1214	2906	0364								
d 25,4 - ER 16 GE / L 100	—	5279																
d 25,4 - ER 20 GE / L 60	—	5280	28	34	13	1 ÷ 13	0188	1215	2907	0787								
d 25,4 - ER 20 GE / L 100	—	5281																
d 32 - ER 16 GE / L 100	—	5284	27	28	11	1 ÷ 10	0186	1214	2906	0364								
d 32 - ER 16 GE / L 150	—	5285																
d 32 - ER 20 GE / L 100	—	5286	28	34	13	1 ÷ 13	0188	1215	2907	0787								
d 32 - ER 20 GE / L 150	—	5287																

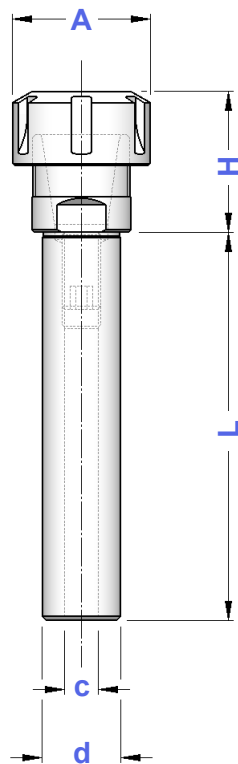


TIPO	Senza Piano	Con Piano	H	A	C	CAPACITA'				
d 14 - ER 16 / L 60	3915	—	36	32	7	1 ÷ 10	0181	4993	3698	0364
d 16 - ER 16 / L 60	3916	—	36	32	7	1 ÷ 10	0181	4993	3698	0364
d 16 - ER 16 / L 80	5009	—								
d 16 - ER 16 / L 100	3185	—								
d 16 - ER 16 / L 130	5087	—								
d 16 - ER 16 / L 160	3206	—								
d 16 - ER 16 / L 200	5089	—								
d 16 - ER 20 / L 60	3529	—	40	35	9	1 ÷ 13	0183	4994	3699	0787
d 16 - ER 25 / L 35	0573	—	46	42	9	1 ÷ 16	0183	4995	3669	0996
d 16 - ER 25 / L 70	0574	—								
d 19,05 - ER16/L 50	—	3929	32	32	11	1 ÷ 10	0186	4993	3698	0364
d 19,05 - ER16/L100	—	0229								
d 19,05 - ER20/L 50	—	3930	36	35	11	1 ÷ 13	0186	4994	3699	0787
d 19,05 - ER20/L100	—	0379								
d 19,05 - ER25/L 50	—	2379	46	42	11	1 ÷ 16	0186	4995	3669	0996
d 19,05 - ER25/L100	—	2381								
d 19,05 - ER32/L 50	—	5096	54	50	13	2 ÷ 20	0188	4996	3670	0988
d 19,05 - ER32/L100	—	5097								
d 20 - ER 16 / L 50	3917 SP	3917 P	31	32	11	1 ÷ 10	0186	4993	3698	0364
d 20 - ER 16 / L 100	3918 SP	3918 P								
d 20 - ER 16 / L 130	5098 SP	5098 P								
d 20 - ER 16 / L 160	3228 SP	3228 P								
d 20 - ER 16 / L 200	5099 SP	5099 P								
d 20 - ER 20 / L 46	3919 SP	3919 P								
d 20 - ER 20 / L 60	3920 SP	3920 P								
d 20 - ER 20 / L 100	0381 SP	0381 P								
d 20 - ER 20 / L 130	5147 SP	5147 P								
d 20 - ER 20 / L 160	5148 SP	5148 P								
d 20 - ER 20 / L 200	5149 SP	5149 P								
d 20 - ER 25 / L 50	2600 SP	2600 P	46	42	11	1 ÷ 16	0186	4995	3669	0996
d 20 - ER 25 / L 100	3921 SP	3921 P								
d 20 - ER 25 / L 130	3910 SP	3910 P								
d 20 - ER 25 / L 160	3911 SP	3911 P								
d 20 - ER 32 / L 50	3203 SP	3203 P								
d 20 - ER 32 / L 100	3922 SP	3922 P								
d 20 - ER 32 / L 130	3931 SP	3931 P								
d 20 - ER 32 / L 160	3932 SP	3932 P								
d 22 - ER 16 / L 80	—	0434	26	32	11	1 ÷ 10	0186	4993	3698	0364
d 22 - ER 20 / L 80	—	0436	36	35	11	1 ÷ 13	0186	4994	3699	0787
d 22 - ER 25 / L 50	—	3177	42	42	13	1 ÷ 16	0188	4995	3669	0996
d 22 - ER 25 / L 80	—	0437								
d 22 - ER 32 / L 50	—	3178	53	50	13	2 ÷ 20	0188	4996	3670	0988
d 25 - ER 16 / L 60	5163 SP	5163 P	27	32	11	1 ÷ 10	0186	4993	3698	0364
d 25 - ER 16 / L 100	5164 SP	5164 P								
d 25 - ER 16 / L 130	5165 SP	5165 P								
d 25 - ER 16 / L 160	5166 SP	5166 P								
d 25 - ER 16 / L 200	5167 SP	5167 P								
d 25 - ER 20 / L 60	0230 SP	0230 P	28	35	13	1 ÷ 13	0188	4994	3699	0787
d 25 - ER 20 / L 100	0383 SP	0383 P								
d 25 - ER 20 / L 130	5168 SP	5168 P								
d 25 - ER 20 / L 160	5169 SP	5169 P								
d 25 - ER 25 / L 50	3923 SP	3923 P	32	42	13	1 ÷ 16	0188	4995	3669	0996
d 25 - ER 25 / L 70	5183 SP	5183 P								
d 25 - ER 25 / L 100	0391 SP	0391 P								
d 25 - ER 25 / L 130	0392 SP	0392 P								
d 25 - ER 25 / L 160	0393 SP	0393 P								





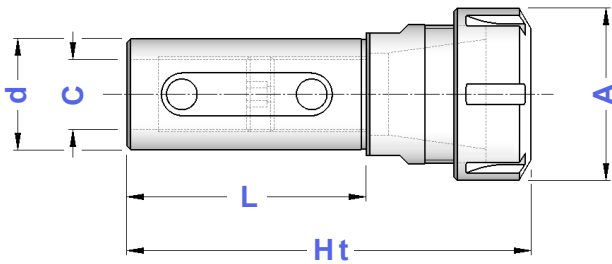
TIPO	Senza Piano	Con Piano	H	A	C	CAPACITA'				
d 25 - ER 32 / L 50	1216 SP	1216 P	54	50	13	2 ÷ 20	0188	4996	3670	0988
d 25 - ER 32 / L 70	1221 SP	1221 P								
d 25 - ER 32 / L 100	3924 SP	3924 P								
d 25 - ER 32 / L 130	3927 SP	3927 P								
d 25 - ER 32 / L 160	3928 SP	3928 P								
d 25 - ER 40 / L 50	2901 SP	2901 P	60	63	13	3 ÷ 30	0188	4997	3671	0821
d 25 - ER 40 / L 100	3266 SP	3266 P								
d 25,4 - ER 16 / L 60	—	5184	27	32	11	1 ÷ 10	0186	4993	3698	0364
d 25,4 - ER 16 / L 100	—	5185								
d 25,4 - ER 20 / L 60	—	0296	28	35	13	1 ÷ 13	0188	4994	3699	0787
d 25,4 - ER 20 / L 100	—	0386								
d 25,4 - ER 25 / L 50	—	3933	32	42	13	1 ÷ 16	0188	4995	3669	0996
d 25,4 - ER 25 / L 70	—	5186								
d 25,4 - ER 25 / L 100	—	3934								
d 25,4 - ER 32 / L 50	—	1217	54	50	13	2 ÷ 20	0188	4996	3670	0988
d 25,4 - ER 32 / L 70	—	5187								
d 25,4 - ER 32 / L 100	—	3935								
d 25,4 - ER 40 / L 50	—	1917	60	63	13	3 ÷ 30	0188	4997	3671	0821
d 30 - ER 25 / L 50	—	3925	45	42	19	1 ÷ 16	0190	4995	3669	0996
d 30 - ER 32 / L 50	—	2593	53	50	23	2 ÷ 20	0191	4996	3670	0988
d 30 - ER 40 / L 50	—	2594	60	63	23	3 ÷ 30	0191	4997	3671	0821
d 31,75 - ER32/L 50	—	1218	44	50	23	2 ÷ 20	0191	4996	3670	0988
d 31,75 - ER40/L 50	—	3938	60	63	23	3 ÷ 30	0191	4997	3671	0821
d 32 - ER 16 / L 100	—	5188	27	32	11	1 ÷ 10	0186	4993	3698	0364
d 32 - ER 16 / L 150	—	5189								
d 32 - ER 20 / L 100	—	5190	28	35	13	1 ÷ 13	0188	4994	3699	0787
d 32 - ER 20 / L 150	—	5191								
d 32 - ER 25 / L 70	—	0307	28	42	19	1 ÷ 16	0190	4995	3669	0996
d 32 - ER 25 / L 100	—	5192								
d 32 - ER 25 / L 120	—	0309								
d 32 - ER 25 / L 150	—	5193								
d 32 - ER 32 / L 50	—	1424	38	50	23	2 ÷ 20	0191	4996	3670	0988
d 32 - ER 32 / L 70	—	3181								
d 32 - ER 32 / L 100	—	0402								
d 32 - ER 32 / L 120	—	0450								
d 32 - ER 32 / L 150	—	3398								
d 32 - ER 40 / L 50	—	1918								
d 32 - ER 40 / L 70	—	0405								
d 32 - ER 40 / L 100	—	5194								
d 32 - ER 40 / L 130	—	5195								
d 35 - ER 32 / L 80	—	5196	38	50	23	2 ÷ 20	0191	4996	3670	0988
d 40 - ER 25 / L 70	—	3405	42	42	19	1 ÷ 16	0190	4995	3669	0996
d 40 - ER 25 / L 120	—	3406								
d 40 - ER 32 / L 70	—	3204	30	50	23	2 ÷ 20	0191	4996	3670	0988
d 40 - ER 32 / L 100	—	3356								
d 40 - ER 32 / L 130	—	3399								
d 40 - ER 32 / L 160	—	3357								
d 40 - ER 40 / L 50	—	3205	60	63	28	3 ÷ 30	0195	4997	3671	0821
d 40 - ER 40 / L 80	—	0406								
d 40 - ER 40 / L 130	—	3942								
d 44,45 - ER32/L160	—	3424	33	50	23	2 ÷ 20	0191	4996	3670	0988
d 44,45 - ER40/L160	—	3428	40	63	28	3 ÷ 30	0195	4997	3671	0821
d 50 - ER 32 / L 125	—	3409	32	50	23	2 ÷ 20	0191	4996	3670	0988
d 50 - ER 32 / L 160	—	3519								
d 50 - ER 40 / L 125	—	5197	37	63	28	3 ÷ 30	0195	4997	3671	0821
d 50 - ER 40 / L 160	—	3412								
d 50,8 - ER 32 / L 160	—	3422	32	50	23	2 ÷ 20	0191	4996	3670	0988
d 50,8 - ER 40 / L 160	—	3426	37	63	28	3 ÷ 30	0195	4997	3671	0821
d 60 - ER 32 / L 160	—	3514	32	50	23	2 ÷ 20	0191	4996	3670	0988
d 60 - ER 40 / L 160	—	3515	37	63	28	3 ÷ 30	0195	4997	3671	0821







**DIN
1835 A**

**PORTAPINZA ER CON ATTACCO CILINDRICO E FORI DI LUBRIFICAZIONE
GHIERA STANDARD**

STRAIGHT SHANK ER - DIN 6499 COLLET CHUCKS WITH COOLING HOLES - STANDARD NUT

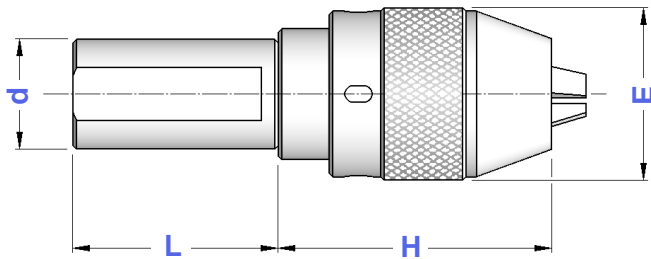



TIPO	Art.	A	Ht	L	C	CAPACITA'				
d 32 NC - ER 25	3408	42	110	70	19	1 ÷ 16	0190	4995	3669	0996
d 32 NC - ER 32	3401	50	118	70	23	2 ÷ 20	0191	4996	3670	0988
d 40 NC - ER 32	3402	50	115	75	23	2 ÷ 20	0191	4996	3670	0988
d 40 NC - ER 40	3404	63	130	75	23	3 ÷ 30	0191	4997	3671	0821

**DIN
1835 A**

**MANDRINI AUTOSERRANTI INTEGRALI CON ATTACCO CILINDRICO
ROTAZIONE DESTRA**

STRAIGHT SHANK MONOLITHIC DRILL CHUCKS - RIGHT SPIN



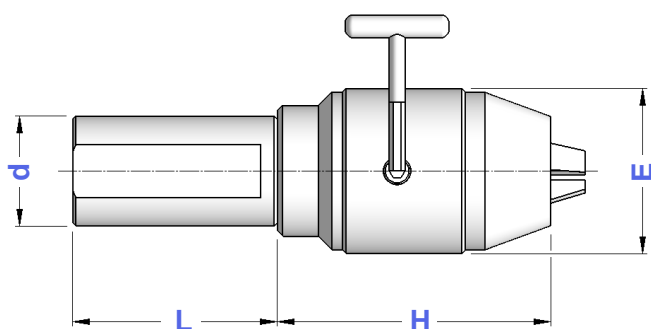
TIPO	Art.	CAPACITA'	E	H	L	
d 20 - DC 13	1419	1 ÷ 13	50	81	60	2370
d 25 - DC 13	1422	1 ÷ 13	50	81	80	2370
d 32 - DC 13	1425	1 ÷ 13	50	81	60	2370
d 32 - DC 16	1426	3 ÷ 16	57	85	60	2371
d 40 - DC 13	1427	1 ÷ 13	50	81	70	2370
d 40 - DC 16	1428	3 ÷ 16	57	85	70	2371

Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

**DIN
1835 A**

**MANDRINI AUTOSERRANTI INTEGRALI CON ATTACCO CILINDRICO
ROTAZIONE DESTRA E SINISTRA**

STRAIGHT SHANK MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN




TIPO	Art.	CAPACITA'	E	H	L	
d 25 - DCU13	8607	1 ÷ 13	50	82	70	2372
d 25 - DCU16	8608	3 ÷ 16	50	87	70	
d 32 - DCU13	8609	1 ÷ 13	50	82	60	2372
d 32 - DCU16	8610	3 ÷ 16	57	87	60	
d 40 - DCU13	8611	1 ÷ 13	50	82	70	2372
d 40 - DCU16	8612	3 ÷ 16	57	87	70	

Figura 1

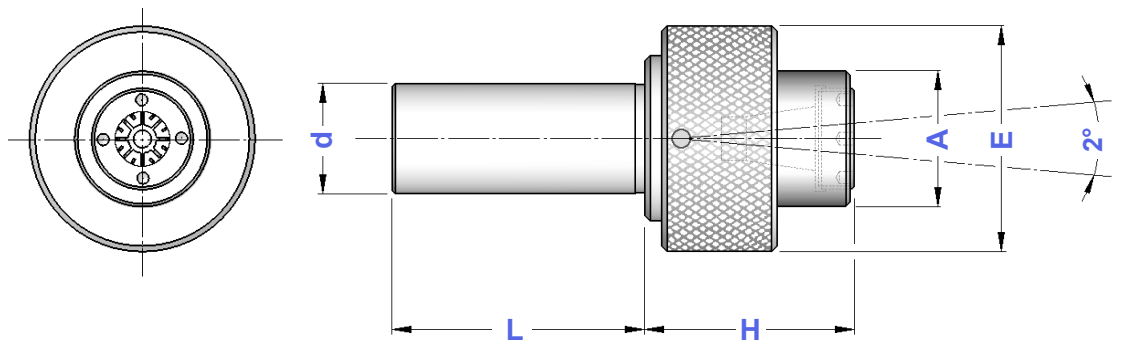
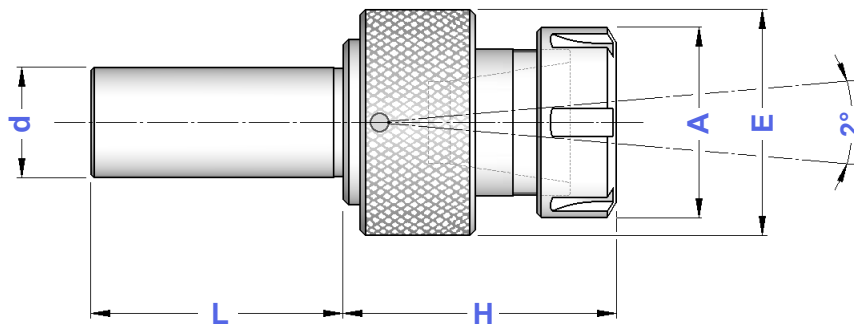







Figura 2

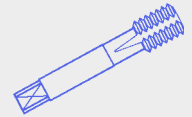


TIPO	Art.	A	E	H	L	CAPACITA'	Figura					
d 16 RM - ER 11	1141	24	40	37	46	1 ÷ 7	1	2867	—	3169	—	5573
d 16 RM - ER 16	1152	32	40	50	46	1 ÷ 10	2	—	4993	—	3698	0364
d 16 RM - ER 20	1173	35	40	55	46	1 ÷ 13	2	—	4994	—	3699	0787
d 19,05 RM - ER 11	1165	24	40	37	46	1 ÷ 7	1	2867	—	3169	—	5573
d 19,05 RM - ER 16	1176	32	40	50	46	1 ÷ 10	2	—	4993	—	3698	0364
d 19,05 RM - ER 20	1340	35	40	55	46	1 ÷ 13	2	—	4994	—	3699	0787
d 20 RM - ER 11	1213	24	40	37	46	1 ÷ 7	1	2867	—	3169	—	5573
d 20 RM - ER 16	1227	32	40	50	46	1 ÷ 10	2	—	4993	—	3698	0364
d 20 RM - ER 20	1573	35	40	55	46	1 ÷ 13	2	—	4994	—	3699	0787
d 20 RM - ER 25	1237	42	61	58	46	1 ÷ 16	2	—	4995	—	3669	0996
d 22 RM - ER 25	1503	42	61	58	46	1 ÷ 16	2	—	4995	—	3669	0996
d 22 RM - ER 32	1593	50	61	70	46	2 ÷ 20	2	—	4996	—	3670	0988
d 25 RM - ER 20	1241	35	40	55	46	1 ÷ 13	2	—	4994	—	3699	0787
d 25 RM - ER 25	1242	42	61	58	46	1 ÷ 16	2	—	4995	—	3669	0996
d 25 RM - ER 32	1341	50	61	70	46	2 ÷ 20	2	—	4996	—	3670	0988
d 25,4 RM - ER 20	1243	35	40	55	46	1 ÷ 13	2	—	4994	—	3699	0787
d 25,4 RM - ER 25	1245	42	61	58	46	1 ÷ 16	2	—	4995	—	3669	0996
d 25,4 RM - ER 32	1342	50	61	70	46	2 ÷ 20	2	—	4996	—	3670	0988
d 30 RM - ER 32	1627	50	61	70	46	2 ÷ 20	2	—	4996	—	3670	0988
d 31,75 RM - ER 32	1894	50	61	70	50	2 ÷ 20	2	—	4996	—	3670	0988
d 32 RM - ER 32	1895	50	61	70	50	2 ÷ 20	2	—	4996	—	3670	0988

**DIN
1835 A**

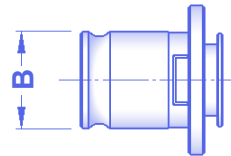
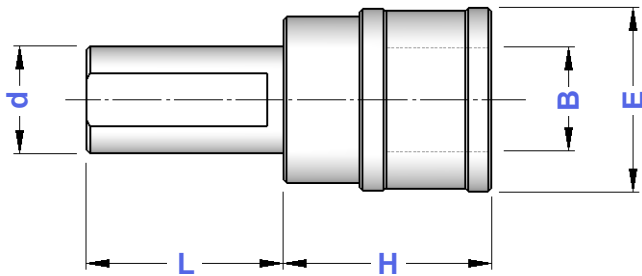
**MASCHIATORI CON ATTACCO CILINDRICO
SENZA COMPENSAZIONE**

STRAIGHT SHANK TAP HOLDERS - WITHOUT COMPENSATION



TIPO	Art.	H	L	E	B	
d 20 - B.1 FISSO	2059	40	50	33	19	M 3 ÷ M 12 (*M16)
d 20 - B.2 FISSO	2060	60	50	50	31	M 6 ÷ M 20 (*M30)
d 25 - B.1 FISSO	2061	40	56	33	19	M 3 ÷ M 12 (*M16)
d 25 - B.2 FISSO	2062	60	56	50	31	M 6 ÷ M 20 (*M30)
d 32 - B.1 FISSO	2067	40	60	33	19	M 3 ÷ M 12 (*M16)
d 32 - B.2 FISSO	2068	60	60	50	31	M 6 ÷ M 20 (*M30)
d 40 - B.1 FISSO	2080	40	72	33	19	M 3 ÷ M 12 (*M16)
d 40 - B.2 FISSO	2081	60	72	50	31	M 6 ÷ M 20 (*M30)

* Bussole tipo GR
Adapters GR type

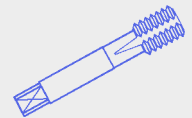


Bussole a maschiare
Tap Adapters
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**DIN
1835 A**

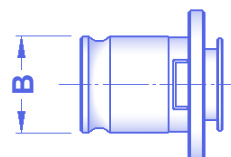
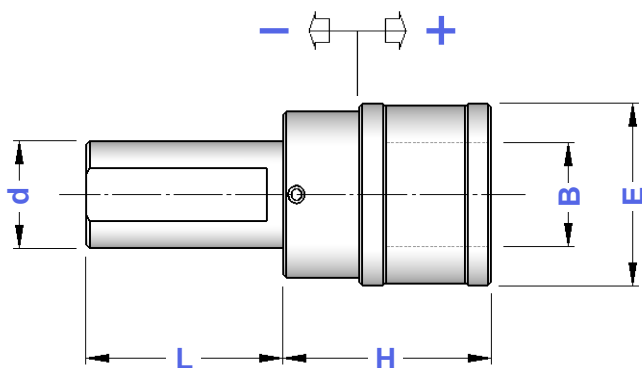
**MASCHIATORI CON ATTACCO CILINDRICO
DOPPIA COMPENSAZIONE**

STRAIGHT SHANK TAP HOLDERS - DOUBLE COMPENSATION



TIPO	Art.	H	L	E	B	COMPENSAZIONE	
d 16 - B.0	3807	37	50	26	13	- 6,5 + 6,5	M 1 ÷ M 10
d 16 - B.1	3808	40	56	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
d 20 - B.0	3809	37	50	26	13	- 6,5 + 6,5	M 1 ÷ M 10
d 20 - B.1	3851	40	50	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
d 20 - B.2	3852	63	60	53	31	-15,0 + 15,0	M 6 ÷ M 20 (*M30)
d 25 - B.1	4451	40	56	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
d 25 - B.2	4452	60	60	53	31	-12,5 + 12,5	M 6 ÷ M 20 (*M30)
d 32 - B.1	4453	40	60	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
d 32 - B.2	4454	63	60	53	31	-12,5 + 12,5	M 6 ÷ M 20 (*M30)
d 32 - B.3	3598	120	60	79	48	-24,0 + 24,0	M14 ÷ M 33 (*M48)
d 40 - B.1	4455	40	72	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
d 40 - B.2	4456	63	72	53	31	-12,5 + 12,5	M 6 ÷ M 20 (*M30)
d 40 - B.3	3857	98	72	79	48	-24,0 + 24,0	M14 ÷ M 33 (*M48)

* Bussole tipo GR
Adapters GR type

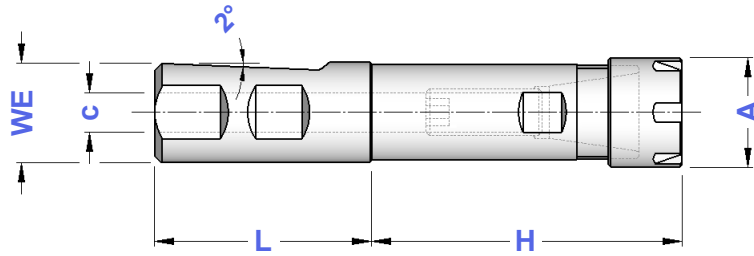






Bussole a maschiare
Tap Adapters
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I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

DIN 1835 B

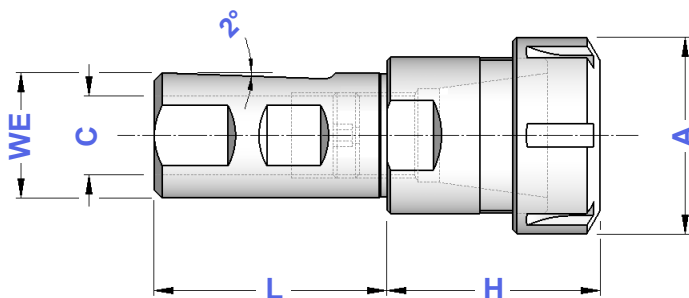
PORTAPINZA ER CON ATTACCO WELDON - GHIERA MINI WELDON SHANK ER - DIN 6499 COLLET CHUCKS - MINI NUT







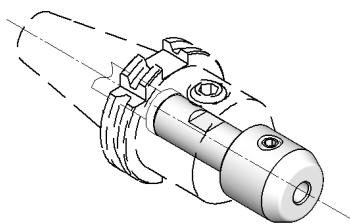
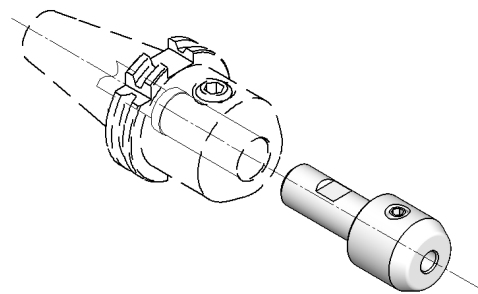
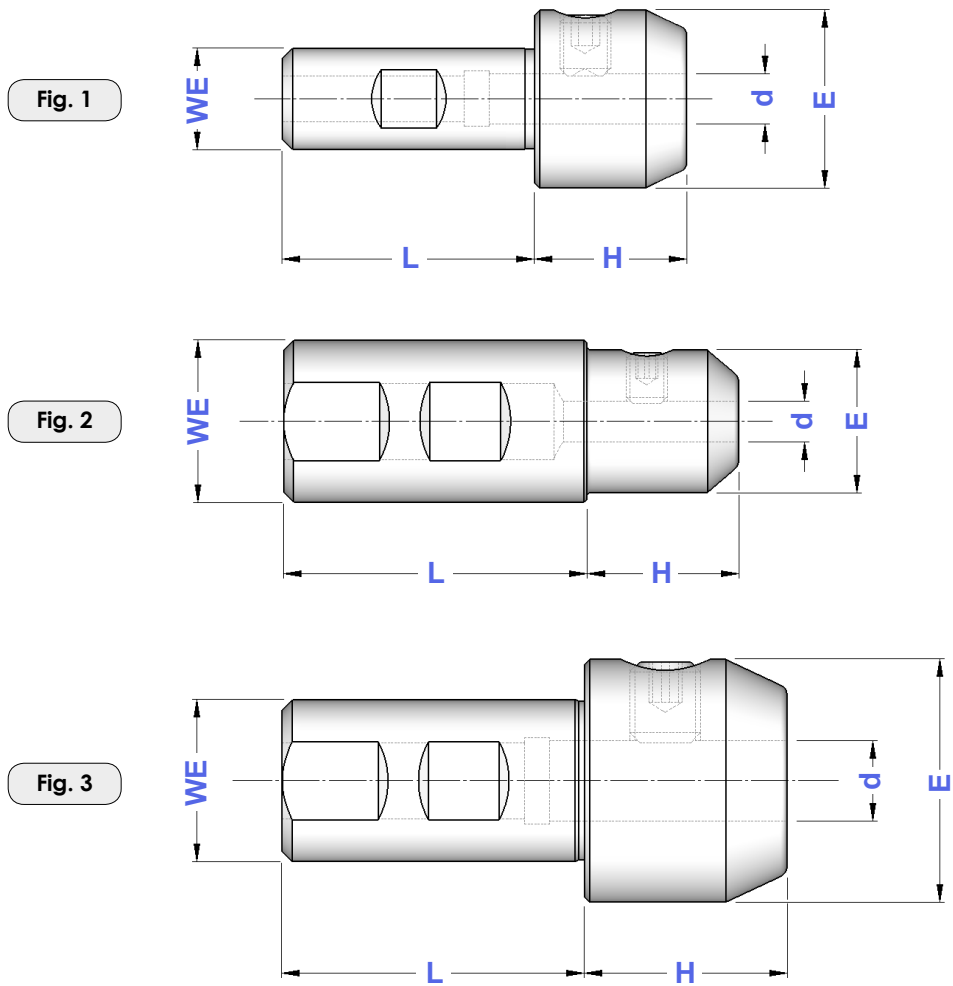
TIPO	Art.	H	L	A	C	CAPACITA'				
WE 16 - ER 11 GM	3189	80	48	16	7	1 ÷ 7	0181	0432	5718	5573
WE 16 - ER 16 GM	3190	80	48	22	9	1 ÷ 10	0183	1229	5719	0364
WE 20 - ER 16 GM	3253	80	50	22	11	1 ÷ 10	0186	1229	5719	0364
WE 20 - ER 20 GM	3254	80	50	28	11	1 ÷ 13	0186	1230	5720	0787
WE 25 - ER 16 GM	3255	80	56	22	11	1 ÷ 10	0186	1229	5719	0364
WE 25 - ER 20 GM	3256	80	56	28	13	1 ÷ 13	0188	1230	5720	0787


DIN 1835 B

PORTAPINZA ER CON ATTACCO WELDON GHIERA STANDARD WELDON SHANK ER - DIN 6499 COLLET CHUCKS - STANDARD NUT



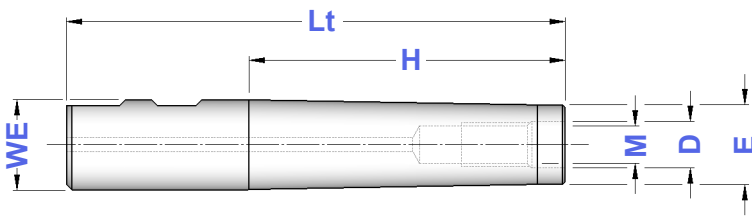
TIPO	Art.	H	L	A	C	CAPACITA'				
WE 20 - ER 32 / H 55	3313	55	50	50	11	2 ÷ 20	0186	4996	3670	0988
WE 20 - ER 32 / H 100	3314	100	50	50	11	2 ÷ 20	0186	4996	3670	0988
WE 25 - ER 32 / H 55	3320	55	56	50	13	2 ÷ 20	0188	4996	3670	0988
WE 25 - ER 32 / H 100	3321	100	56	50	13	2 ÷ 20	0188	4996	3670	0988
WE 32 - ER 32 / H 55	3323	55	60	50	23	2 ÷ 20	0191	4996	3670	0988
WE 32 - ER 32 / H 100	3324	100	60	50	23	2 ÷ 20	0191	4996	3670	0988



TIPO	Art.	d	H	L	E	Figura	
WE 20 - d 6	3044	6	30	50	25	1	4970
WE 20 - d 8	3046	8	30	50	28	1	4971
WE 20 - d 10	3064	10	30	50	35	1	4972
WE 20 - d 12	3065	12	35	50	42	1	4973
WE 20 - d 14	4518	14	35	50	44	1	4973
WE 20 - d 16	3066	16	60	50	48	1	4974
WE 25 - d 6	3121	6	25	56	25	2	4970
WE 25 - d 8	3122	8	30	56	28	3	4971
WE 25 - d 10	3123	10	30	56	35	3	4972
WE 25 - d 12	3124	12	35	56	42	3	4973
WE 25 - d 14	4519	14	35	56	44	3	4973
WE 25 - d 16	3125	16	40	56	48	3	4974
WE 32 - d 6	3760	6	30	60	25	2	4970
WE 32 - d 8	3761	8	30	60	28	2	4971
WE 32 - d 10	3762	10	30	60	35	3	4972
WE 32 - d 12	3763	12	35	60	42	3	4973
WE 32 - d 14	4520	14	35	60	44	3	4973
WE 32 - d 16	3764	16	40	60	48	3	4974
WE 32 - d 18	4521	18	40	60	50	3	4974
WE 32 - d 20	3765	20	40	60	52	3	4975
WE 32 - d 25	3126	25	65	60	65	3	4976

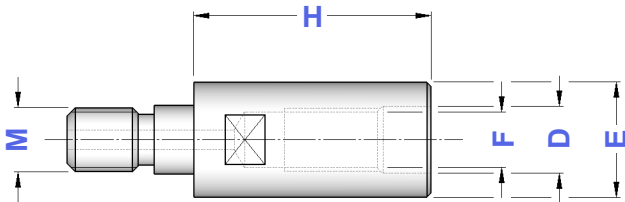
DIN 1835 B

PORTAFRESE CON ATTACCO WELDON PER FRESE CON ATTACCO FILETTATO WELDON SHANKS FOR MILLING CUTTERS WITH THREADED SHANK



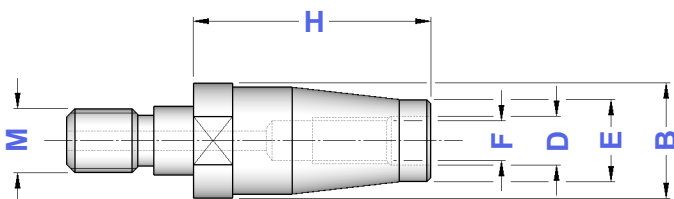
TIPO	Art.	M	D	E	H	Lt
WE16 - M 8	6480	M8	8,5	12,8	60	115
WE16 - M 8	6481	M8	8,5	12,8	100	160
WE20 - M10	6482	M10	10,5	17,8	60	120
WE20 - M10	6483	M10	10,5	17,8	100	160
WE25 - M12	6484	M12	12,5	20,8	100	160
WE32 - M16	6485	M16	17,0	28,8	100	160

PROLUNGHE PER FRESE CON ATTACCO FILETTATO EXTENSIONS FOR MILLING CUTTERS WITH THREADED SHANK



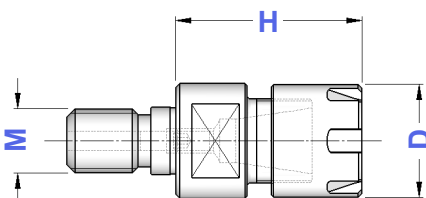
TIPO	Art.	M	F	D	E	H
M 8 - M 8	6486	M8	M8	8,5	12,8	30
M 10 - M 10	6487	M10	M10	10,5	17,8	35
M 12 - M 12	6488	M12	M12	12,5	20,8	40
M 16 - M 16	6489	M16	M16	17,0	28,8	40

RIDUZIONI PER FRESE CON ATTACCO FILETTATO REDUCTIONS FOR MILLING CUTTERS WITH THREADED SHANK



TIPO	Art.	M	F	D	E	B	H
M 10 - M 8	6490	M10	M8	8,5	12,8	17,8	30
M 12 - M 8	6491	M12	M8	8,5	12,8	20,8	40
M 12 - M 10	6492	M12	M10	10,5	17,8	20,8	35
M 16 - M 10	6493	M16	M10	10,5	17,8	28,8	60
M 16 - M 12	6494	M16	M12	12,5	20,8	28,8	40

PORTAPINZE ER CON ATTACCO FILETTATO ER COLLET CHUCKS WITH THREADED SHANK

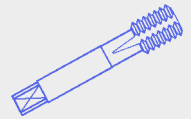


TIPO	Art.	M	D	H	CAPACITA'			
M 12 - ER 16 GM	6460	M12	22	35	1 ÷ 10	1229	5719	0364
M 16 - ER 16 GM	6461	M16	22	40	1 ÷ 10	1229	5719	0364
M 16 - ER 20 GM	6462	M16	28	40	1 ÷ 13	1230	5720	0787
M 16 - ER 25 GM	6463	M16	35	45	1 ÷ 16	1231	5721	0996

**DIN
1835 B**

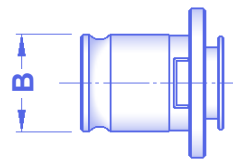
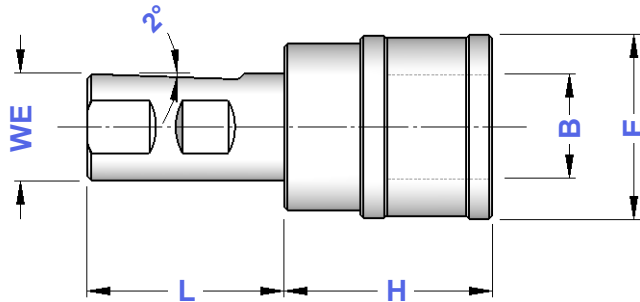
**MASCHIATORI CON ATTACCO WELDON
SENZA COMPENSAZIONE**

WELDON SHANK TAP HOLDERS - WITHOUT COMPENSATION



TIPO	Art.	H	L	E	B	
WE 20 - B. 1 FISSO	2059	40	50	33	19	M 3 ÷ M 12 (*M16)
WE 20 - B. 2 FISSO	2060	60	50	50	31	M 6 ÷ M 20 (*M30)
WE 25 - B. 1 FISSO	2061	40	56	33	19	M 3 ÷ M 12 (*M16)
WE 25 - B. 2 FISSO	2062	60	56	50	31	M 6 ÷ M 20 (*M30)
WE 32 - B. 1 FISSO	2067	40	60	33	19	M 3 ÷ M 12 (*M16)
WE 32 - B. 2 FISSO	2068	60	60	50	31	M 6 ÷ M 20 (*M30)
WE 40 - B. 1 FISSO	2080	40	72	33	19	M 3 ÷ M 12 (*M16)
WE 40 - B. 2 FISSO	2081	60	72	50	31	M 6 ÷ M 20 (*M30)

* Bussole con grani
Adapters with screws

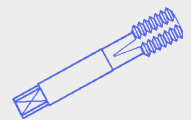


Bussole a maschiare
Tap Adapters
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**DIN
1835 B**

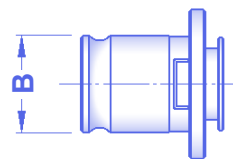
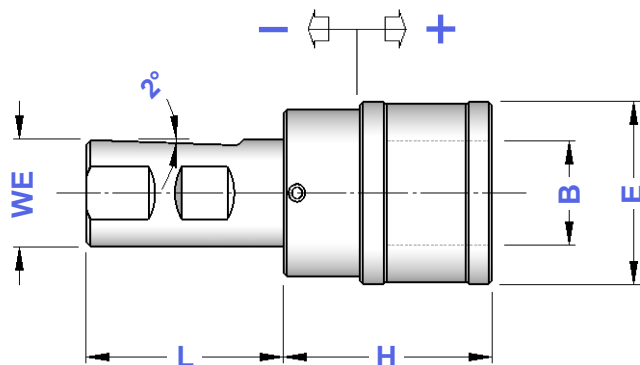
**MASCHIATORI CON ATTACCO WELDON
DOPPIA COMPENSAZIONE**

WELDON SHANK TAP HOLDERS - DOUBLE COMPENSATION



TIPO	Art.	H	L	E	B	COMPENSAZIONE	
WE 20 - B. 1	3176	41	50	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
WE 25 - B. 1	3963	41	56	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
WE 25 - B. 2	3964	63	56	53	31	-15 + 15	M 6 ÷ M 20 (*M30)
WE 32 - B. 1	3853	41	60	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
WE 32 - B. 2	3854	63	60	53	31	-15 + 15	M 6 ÷ M 20 (*M30)
WE 32 - B. 3	3598	120	60	79	48	-24 + 24	M14 ÷ M 33 (*M48)
WE 40 - B. 1	3855	41	72	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
WE 40 - B. 2	3856	63	72	55	31	-15 + 15	M 6 ÷ M 20 (*M30)
WE 40 - B. 3	3857	98	72	79	48	-24 + 24	M14 ÷ M 33 (*M48)

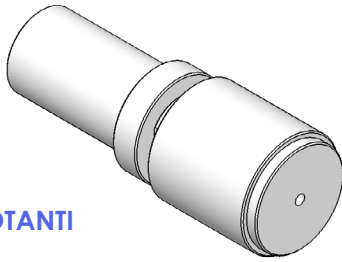
* Bussole con grani
Adapters with screws



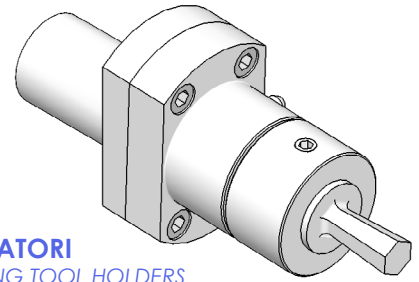
Bussole a maschiare
Tap Adapters
Pag. 172 - 175

I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

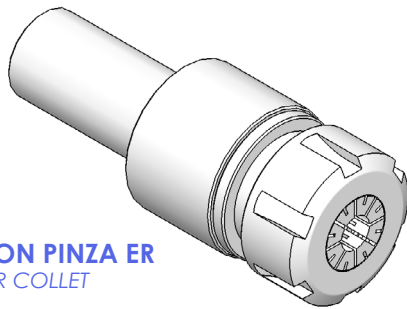
ALTRI PORTAUTENSILI CON ATTACCO CILINDRICO PRESENTI A CATALOGO
 OTHER STRAIGHT SHANK TOOL HOLDERS ON THE CATALOGUE



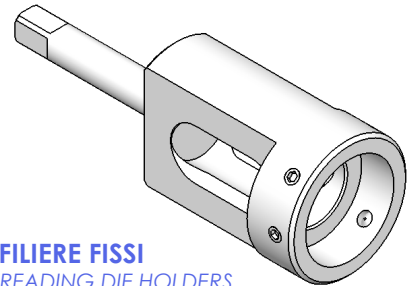
FERMOBARRA ROTANTI
 ROTARY BAR STOPS
 pag. 267



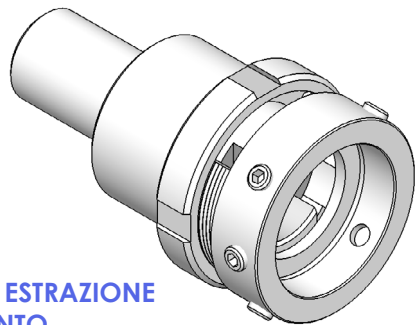
BROCCIATORI
 BROACHING TOOL HOLDERS
 pag. 268



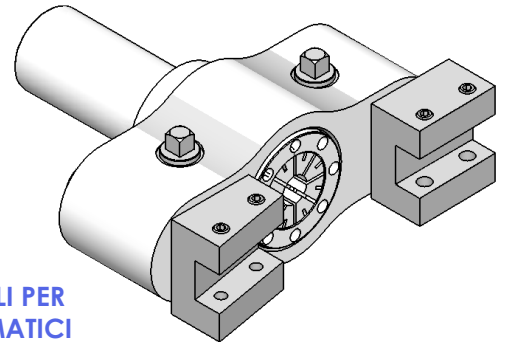
MASCHIATORI CON PINZA ER
 TAP HOLDERS WITH ER COLLET
 pag. 270



PORTAFILIERE FISSI
 FIXED THREADING DIE HOLDERS
 pag. 274

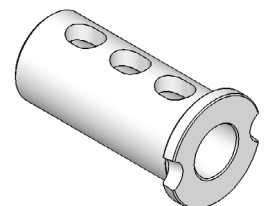
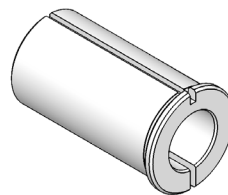
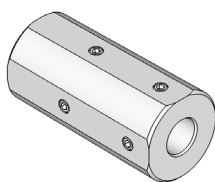
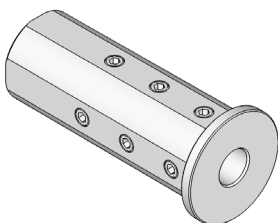


**PORTAFILIERE AD ESTRAZIONE
 E A SGANCIAMENTO**
 DRAW-OUT AND OFF HOOK
 THREADING DIE HOLDERS
 pag. 272



**PORTAUTENSILI PER
 Torni AUTOMATICI**
 TOOL HOLDERS FOR
 AUTOMATIC LATHES
 da pag. 276

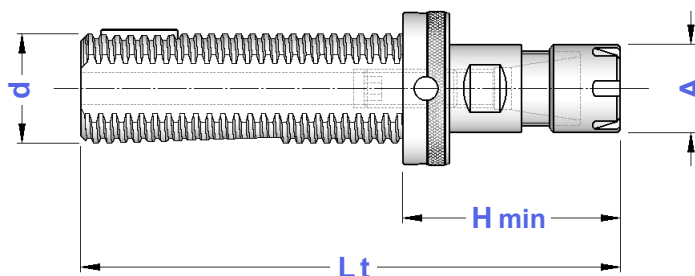
BUSSOLE DI RIDUZIONE da pag. 216 a pag. 238
 REDUCTION SLEEVES from page 216 to page 238









DIN 6327

PORTAPINZE ER CON ATTACCO TRAPEZIO - GHIERA MINI

AUTOMOTIVE SHANK ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

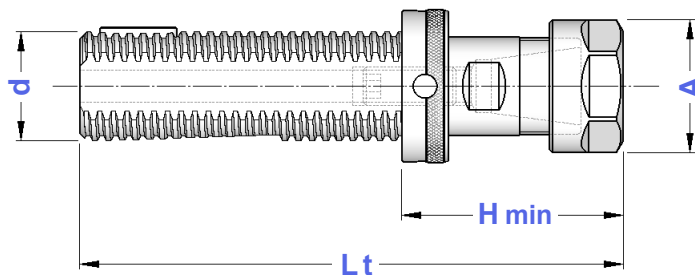








TIPO	Art.	d	Lt	HMIN	A	CAPACITA'						
TR 8 - ER 8 GM	3146	8	75	35	12	1 ÷ 5	2964	0101	—	0373	5717	0554
TR10 - ER11 GM	3147	10	95	45	16	1 ÷ 7	2965	0103	—	0432	5718	5573
TR12 - ER11 GM	3148	12	95	45	16	1 ÷ 7	2966	0103	0181	0432	5718	5573
TR12 - ER16 GM	3149	12	103	53	22	1 ÷ 10	2966	0103	0181	1229	5719	0364
TR16 - ER16 GM	3150	16	120	47	22	1 ÷ 10	2967	0107	0181	1229	5719	0364
TR16 - ER20 GM	3151	16	130	57	28	1 ÷ 13	2967	0107	0181	1230	5720	0787
TR20 - ER16 GM	3153	20	135	59	22	1 ÷ 10	2968	0107	0186	1229	5719	0364
TR20 - ER20 GM	3154	20	135	59	28	1 ÷ 13	2968	0107	0186	1230	5720	0787
TR20 - ER25 GM	3155	20	135	59	35	1 ÷ 16	2968	0107	0186	1231	5721	0996

DIN 6327

PORTAPINZA ER CON ATTACCO TRAPEZIO - GHIERA ESAGONALE

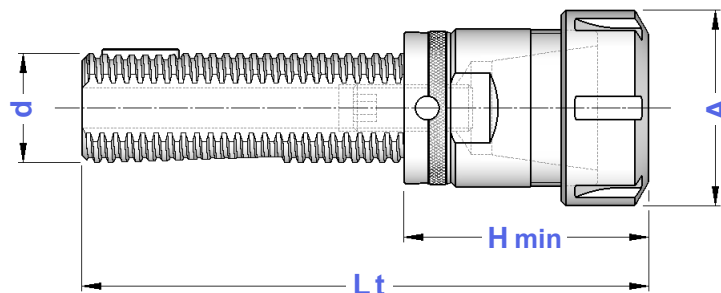
AUTOMOTIVE SHANK ER - DIN 6499 COLLET CHUCKS WITH HEXAGONAL NUT



TIPO	Art.	d	Lt	HMIN	A	CAPACITA'						
TR 16 - ER11 GE	3137	16	110	37	19	1 ÷ 7	2967	0107	0181	1157	2905	5573
TR 16 - ER16 GE	3138	16	122	49	28	1 ÷ 10	2967	0107	0181	1214	2906	0364
TR 20 - ER16 GE	3139	20	128	52	28	1 ÷ 10	2968	0107	0186	1214	2906	0364
TR 20 - ER20 GE	3140	20	135	59	34	1 ÷ 13	2968	0107	0186	1215	2907	0787
TR 28 - ER16 GE	3161	28	140	57	28	1 ÷ 10	2969	0108	0186	1214	2906	0364
TR 28 - ER20 GE	3141	28	140	57	34	1 ÷ 13	2969	0108	0186	1215	2907	0787

**DIN
6327**

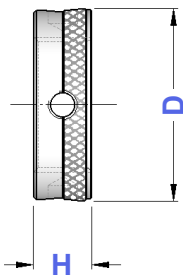
PORTAPINZE ER CON ATTACCO TRAPEZIO - GHIERA STANDARD
AUTOMOTIVE SHANK ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT



TIPO	Art.	d	Lt	HMIN	A	CAPACITA'						
TR 28 - ER 25	3142	28	140	57	42	1 ÷ 16	2969	0108	0188	4995	3669	0996
TR 28 - ER 32	3143	28	147	64	50	2 ÷ 20	2969	0108	0188	4996	3670	0988
TR 28 - ER 40	3162	28	190	107	63	3 ÷ 30	2969	0108	0188	4997	3671	0821
TR 36 - ER 25	3973	36	163	57	42	1 ÷ 16	2970	0111	0190	4995	3669	0996
TR 36 - ER 32	3144	36	165	61	50	2 ÷ 20	2970	0111	0190	4996	3670	0988
TR 36 - ER 40	3145	36	186	82	63	3 ÷ 30	2970	0111	0190	4997	3671	0821
TR 48 - ER 32	3667	48	200	74	50	2 ÷ 20	2971	0114	0191	4996	3670	0988
TR 48 - ER 40	3159	48	207	81	63	3 ÷ 30	2971	0114	0195	4997	3671	0821

**DIN
6327**

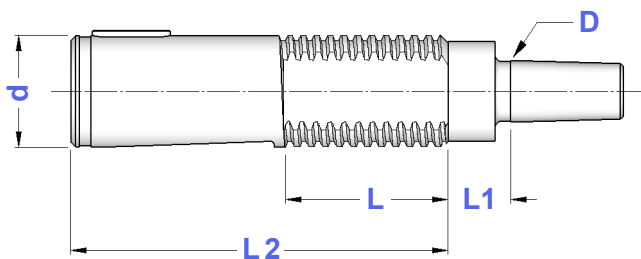
GHIERE DI REGISTRAZIONE DIN 6327
DIN 6327 ADJUSTMENT NUTS



TIPO	Art.	H	D	
GH - TR 8 x 1	2964	10	14,8	0011
GH - TR10 x1,5	2965	12	17,8	0017
GH - TR12 x1,5	2966	12	19,7	0017
GH - TR16 x1,5	2967	12	24,6	0019
GH - TR20 x 2	2968	12	31,6	0019
GH - TR28 x 2	2969	12	39,6	0020
GH - TR36 x 2	2970	14	49,6	0020
GH - TR48 x 2	2971	18	66,6	0021

**DIN
6327**

ATTACCHI PER MANDRINI PORTAPUNTA - DIN 238
SHANKS FOR DRILL CHUCKS DIN 238 TYPE



TIPO	Art.	d	L	L1	L2	D	
TR 28 - B16	2774	28	42	21	95	15,733	2969
TR 36 - B16	2775	36	50	21	118	15,733	2970

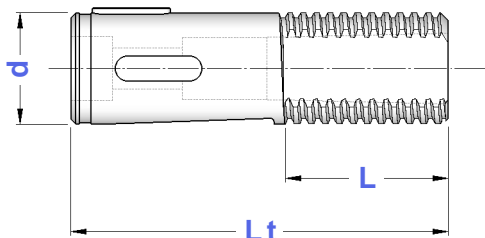
**DIN
6327**

ASTUCCI REGISTRABILI A CM - TIPO "E"

DIN 6327 ADJUSTABLE ADAPTERS - "E" TYPE



TIPO	Art.	d	L	Lt		
E 16 x 1	2984	16	40	85	0258	2967
E 20 x 1	2985	20	40	88	0107	2968
E 28 x 1	2986	28	42	95	0108	2969
E 28 x 2	3167	28	42	95	0108	2969
E 36 x 1	3407	36	50	118	0111	2970
E 36 x 2	3168	36	50	118	0111	2970
E 36 x 3	3410	36	50	118	0111	2970
E 48 x 2	3198	48	65	144	0114	2971
E 48 x 3	3411	48	65	144	0114	2971
E 48 x 4	3413	48	65	144	0114	2971



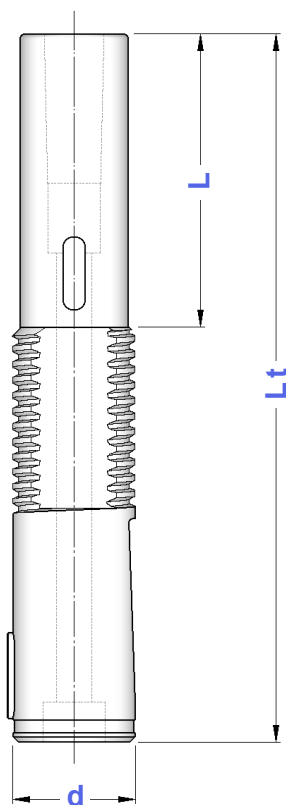
**DIN
6327**

ASTUCCI REGISTRABILI A CM - TIPO "G"

DIN 6327 ADJUSTABLE ADAPTERS - "G" TYPE

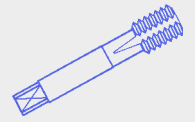


TIPO	Art.	d	L	Lt		
G 16 x 1 x 25	5340	16	25	110	2967	
G 16 x 1 x 50	5341		50	135		
G 16 x 1 x 75	5342		75	160		
G 16 x 1 x 100	5343		100	185		
G 20 x 1 x 25	5344	20	25	113	2968	
G 20 x 1 x 50	5345		50	138		
G 20 x 1 x 75	5346		75	163		
G 20 x 1 x 100	5347		100	188		
G 28 x 1 x 25	5348	28	25	120	2969	
G 28 x 1 x 50	5349		50	145		
G 28 x 1 x 75	5350		75	170		
G 28 x 1 x 100	5351		100	195		
G 28 x 2 x 25	5352	28	25	120	2969	
G 28 x 2 x 50	5353		50	145		
G 28 x 2 x 75	5354		75	170		
G 28 x 2 x 100	5355		100	195		
G 36 x 2 x 30	5356	36	30	148	2970	
G 36 x 2 x 60	5357		60	178		
G 36 x 2 x 90	5358		90	208		
G 36 x 2 x 120	5359		120	238		
G 36 x 3 x 30	5360	36	30	148	2970	
G 36 x 3 x 60	5361		60	178		
G 36 x 3 x 90	5362		90	208		
G 36 x 3 x 120	5363		120	238		
G 48 x 3 x 40	5364	48	40	184	2971	
G 48 x 3 x 80	5365		80	224		
G 48 x 3 x 120	5366		120	264		
G 48 x 3 x 160	5367		160	304		
G 48 x 4 x 40	5368	48	40	184	2971	
G 48 x 4 x 80	5372		80	224		
G 48 x 4 x 120	5373		120	264		
G 48 x 4 x 160	5374		160	304		

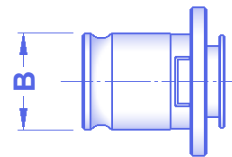
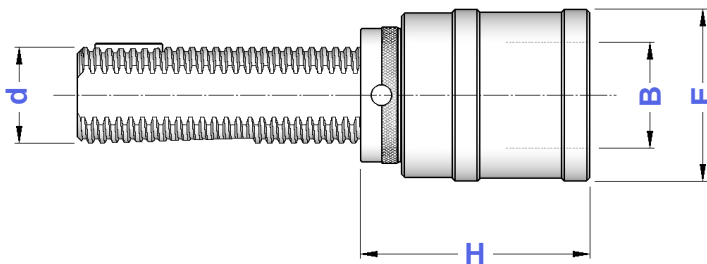


**DIN
6327****MASCHIATORI ATTACCO TRAPEZIO A CAMBIO RAPIDO
SENZA COMPENSAZIONE**

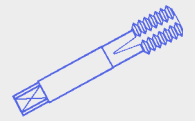
QUICK CHANGE TAP HOLDERS WITHOUT COMPENSATION



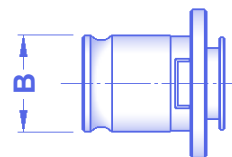
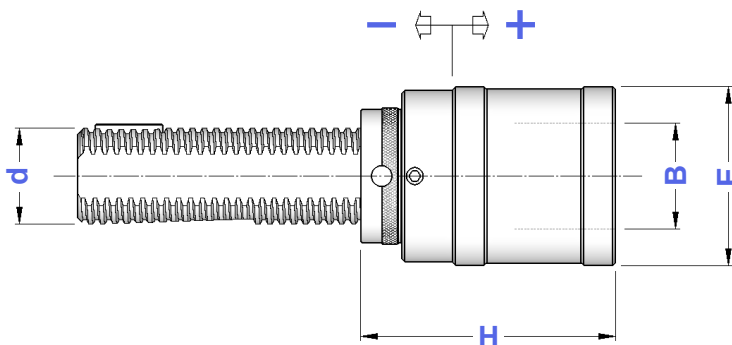
TIPO	Art.	d	H	E	B	
TR 16 - B.0 FISSO	5198	16	45	26	13	M 1 ÷ M 10
TR 16 - B.1 FISSO	5199	16	49	36	19	M 3 ÷ M 12 (*M16)
TR 20 - B.1 FISSO	5211	20	49	36	19	M 3 ÷ M 12 (*M16)
TR 20 - B.2 FISSO	5212	20	66	53	31	M 6 ÷ M 20 (*M30)
TR 28 - B.1 FISSO	5213	28	49	36	19	M 3 ÷ M 12 (*M16)
TR 28 - B.2 FISSO	5214	28	66	53	31	M 6 ÷ M 20 (*M30)
TR 36 - B.1 FISSO	5215	36	49	36	19	M 3 ÷ M 12 (*M16)
TR 36 - B.2 FISSO	5216	36	68	53	31	M 6 ÷ M 20 (*M30)

* Bussole con grani
Adapters with screwsBussole a maschiare
Tap Adapters
Pag. 172 - 175**DIN
6327****MASCHIATORI ATTACCO TRAPEZIO A CAMBIO RAPIDO
DOPPIA COMPENSAZIONE**

DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS



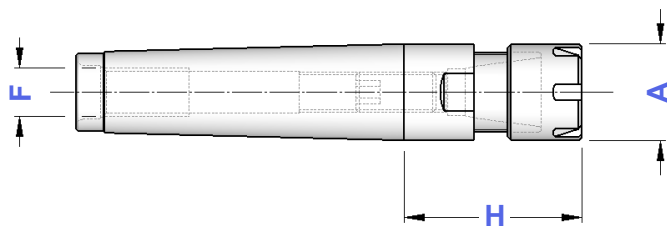
TIPO	Art.	d	H	E	B	COMPENSAZIONE	
TR 16 - B.0	3811	16	49	26	13	- 6,5 + 6,5	M 1 ÷ M 10
TR 16 - B.1	3564	16	51	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TR 20 - B.0	3156	20	49	26	13	- 6,5 + 6,5	M 1 ÷ M 10
TR 20 - B.1	3565	20	51	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TR 20 - B.2	3926	20	75	53	31	-12,5 +12,5	M 6 ÷ M 20 (*M30)
TR 28 - B.1	3566	28	51	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TR 28 - B.2	3567	28	76	53	31	-12,5 +12,5	M 6 ÷ M 20 (*M30)
TR 28 - B.3	3220	28	108	78	48	-20,0 +20,0	M14 ÷ M 33 (*M48)
TR 36 - B.1	3568	36	53	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TR 36 - B.2	3569	36	78	53	31	-12,5 +12,5	M 6 ÷ M 20 (*M30)
TR 36 - B.3	3570	36	110	78	48	-20,0 +20,0	M14 ÷ M 33 (*M48)
TR 48 - B.3	3571	48	114	78	48	20,0 +20,0	M14 ÷ M 33 (*M48)





* Bussole con grani
Adapters with screwsBussole a maschiare
Tap Adapters
Pag. 172 - 175I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

**DIN
228-A**

**PORTAPINZE ER - GHIERA MINI
CON FILETTO**

ER - DIN 6499 COLLET CHUCKS WITH THREAD - MINI NUT

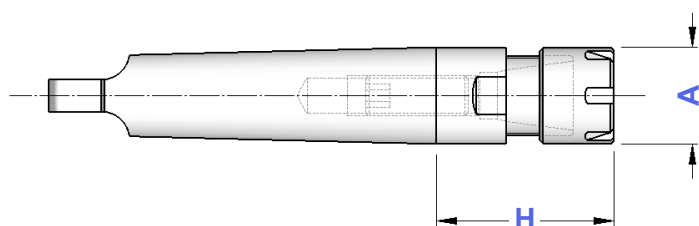






TIPO	Art.	H	A	F	CAPACITA'				
CM 1 A - ER 11 GM	3509	25	16	M 6	1 ÷ 7	0181	0432	5718	5573
CM 1 A - ER 16 GM	3510	40	22	M 6	1 ÷ 10	0181	1229	5719	0364
CM 2 A - ER 16 GM	3511	42	22	M10	1 ÷ 10	0186	1229	5719	0364
CM 2 A - ER 20 GM	3512	50	28	M10	1 ÷ 13	0186	1230	5720	0787
CM 2 A - ER 25 GM	3513	54	35	M10	1 ÷ 16	0186	1231	5721	0996
CM 3 A - ER 16 GM	3516	43	22	M12	1 ÷ 10	0186	1229	5719	0364
CM 3 A - ER 20 GM	3517	47	28	M12	1 ÷ 13	0188	1230	5720	0787
CM 3 A - ER 25 GM	3518	58	35	M12	1 ÷ 16	0188	1231	5721	0996

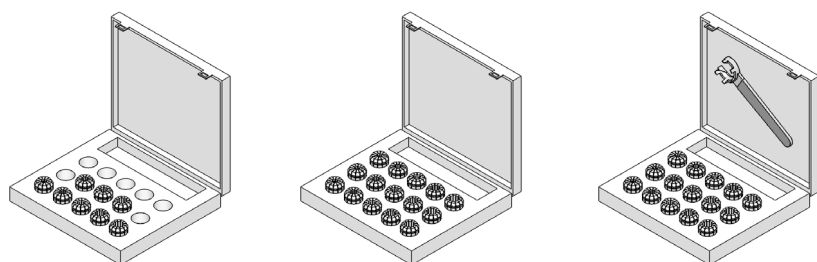
**DIN
228-B**

**PORTAPINZE ER - GHIERA MINI
CON TENONE**

ER - DIN 6499 COLLET CHUCKS WITH TONQUE - MINI NUT



TIPO	Art.	H	A	CAPACITA'				
CM 1 - ER 11 GM	8613	25	16	1 ÷ 7	0181	0432	5718	5573
CM 1 - ER 16 GM	8614	40	22	1 ÷ 10	0181	1229	5719	0364
CM 2 - ER 16 GM	8615	42	22	1 ÷ 10	0186	1229	5719	0364
CM 2 - ER 20 GM	8616	50	28	1 ÷ 13	0186	1230	5720	0787
CM 2 - ER 25 GM	8617	54	35	1 ÷ 16	0186	1231	5721	0996
CM 3 - ER 16 GM	8618	43	22	1 ÷ 10	0186	1229	5719	0364
CM 3 - ER 20 GM	8619	47	28	1 ÷ 13	0188	1230	5720	0787
CM 3 - ER 25 GM	8620	58	35	1 ÷ 16	0188	1231	5721	0996

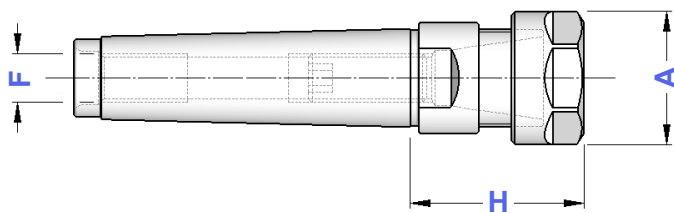






Con le composizioni che trovate da pagina 9 a pagina 19, è possibile realizzare la cassetta KIT di vostro interesse

With sets you find from page 9 to page 19 it becomes easy to realize KIT cases that meet your needs.

**DIN
228-A**

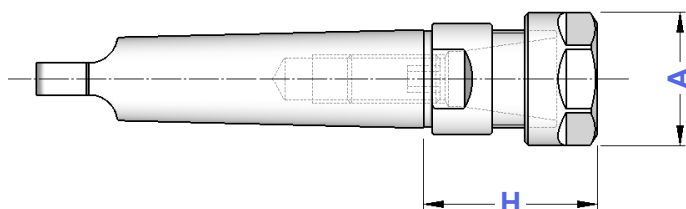
**PORTAPINZE ER - GHIERA ESAGONALE
CON FILETTO**
ER - DIN 6499 COLLET CHUCKS WITH THREAD - HEXAGONAL NUT







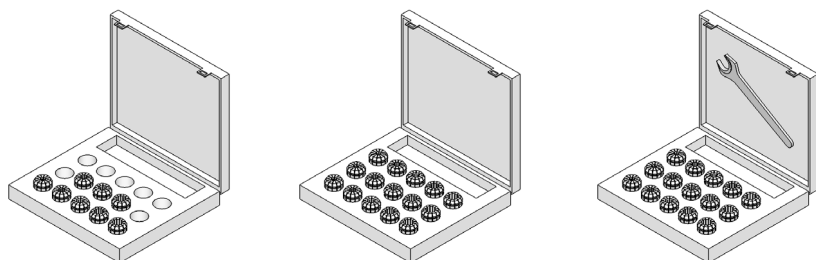
TIPO	Art.	H	A	F	CAPACITA'				
CM 1 A - ER16 GE	8621	40	28	M 6	1 ÷ 10	0181	1214	2906	0364
CM 2 A - ER16 GE	8622	42	28	M10	1 ÷ 10	0186	1214	2906	0364
CM 2 A - ER20 GE	8623	50	34	M10	1 ÷ 13	0186	1215	2907	0787

**DIN
228-B**

**PORTAPINZE ER - GHIERA ESAGONALE
CON TENONE**
ER - DIN 6499 COLLET CHUCKS WITH TONQUE - HEXAGONAL NUT



TIPO	Art.	H	A	CAPACITA'				
CM 1 - ER 16 GE	8624	40	28	1 ÷ 10	0181	1214	2906	0364
CM 2 - ER 16 GE	8625	42	28	1 ÷ 10	0186	1214	2906	0364
CM 2 - ER 20 GE	8626	50	34	1 ÷ 13	0186	1215	2907	0787



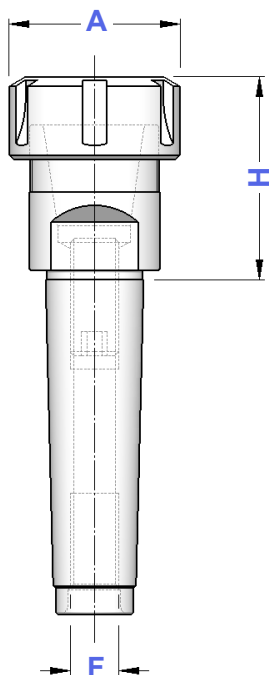
Con le composizioni che trovate da pagina 9 a pagina 19, è possibile realizzare la cassetta KIT di vostro interesse

With sets you find from page 9 to page 19 it becomes easy to realize KIT cases that meet your needs.

DIN 228-A

PORTAPINZE ER - GHIERA STANDARD CON FILETTO

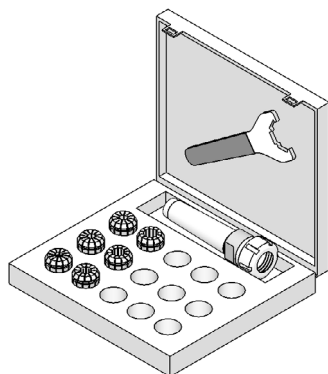
ER - DIN 6499 COLLET CHUCKS WITH THREAD - STANDARD NUT



TIPO	Art.	H	A	F	CAPACITA'				
CM 1 A - ER 16	2915	40	32	M 6	1 ÷ 10	0181	4993	3698	0364
CM 2 A - ER 16	2916	42	32	M10	1 ÷ 10	0186	4993	3698	0364
CM 2 A - ER 20	2917	50	35	M10	1 ÷ 13	0186	4994	3699	0787
CM 2 A - ER 25	2918	54	42	M10	1 ÷ 16	0186	4995	3669	0996
CM 2 A - ER 32	3310	59	50	M10	2 ÷ 20	0186	4996	3670	0988
CM 3 A - ER 25	2919	53	42	M12	1 ÷ 16	0188	4995	3669	0996
CM 3 A - ER 32	2920	70	50	M12	2 ÷ 20	0188	4996	3670	0988
CM 3 A - ER 40	2921	80	63	M12	3 ÷ 30	0188	4997	3671	0821
CM 4 A - ER 32	2922	60	50	M16	2 ÷ 20	0190	4996	3670	0988
CM 4 A - ER 40	2923	81	63	M16	3 ÷ 30	0190	4997	3671	0821
CM 4 A - ER 50	2924	96	78	M16	6 ÷ 34	0190	4998	3668	4055
CM 5 A - ER 32	2902	50	50	M20	2 ÷ 20	0191	4996	3670	0988
CM 5 A - ER 40	2925	81	63	M20	3 ÷ 30	0195	4997	3671	0821
CM 5 A - ER 50	2926	91	78	M20	6 ÷ 34	0195	4998	3668	4055

CASSETTE CON SERIE RIDOTTA DI PINZE ER, MANDRINO E CHIAVE

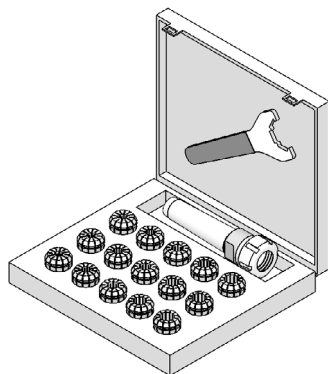
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS



TIPO	Art.				
KIT Rid CM 2 A - ER 25	7524	2918	3695	3669	0996: Ø 4-6-8-10-12-16
KIT Rid CM 2 A - ER 32	7525	3310	3695	3670	0988: Ø 4-6-8-10-12-16-20
KIT Rid CM 3 A - ER 25	7526	2919	3695	3669	0996: Ø 4-6-8-10-12-16
KIT Rid CM 3 A - ER 32	7527	2920	3695	3670	0988: Ø 4-6-8-10-12-16-20
KIT Rid CM 3 A - ER 40	7528	2921	3695	3671	0821: Ø 4-6-8-10-12-16-20-25
KIT Rid CM 4 A - ER 32	7529	2922	3695	3670	0988: Ø 4-6-8-10-12-16-20
KIT Rid CM 4 A - ER 40	7530	2923	3695	3671	0821: Ø 4-6-8-10-12-16-20-25

CASSETTE CON SERIE COMPLETA DI PINZE ER, MANDRINO E CHIAVE

EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS

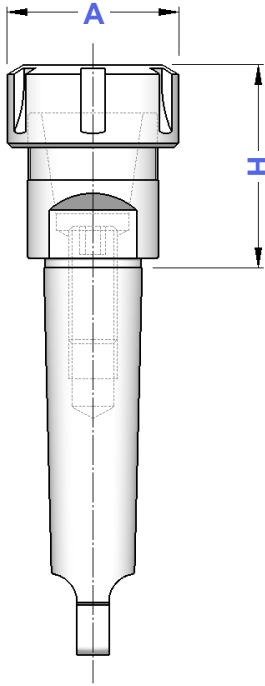


TIPO	Art.				
KIT CM 2 A - ER 25	7508	2918	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT CM 2 A - ER 32	7509	3310	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 3 A - ER 25	7510	2919	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT CM 3 A - ER 32	7511	2920	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 3 A - ER 40	7512	2921	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)
KIT CM 4 A - ER 32	7513	2922	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 4 A - ER 40	7514	2923	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)

DIN 228-B

PORTAPINZE ER - GHIERA STANDARD CON TENONE

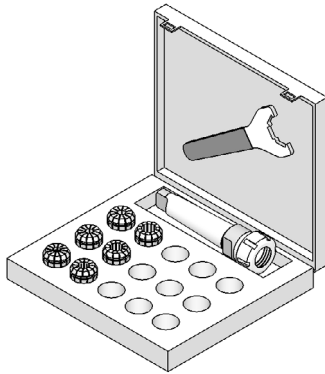
ER - DIN 6499 COLLET CHUCKS WITH TONQUE - STANDARD NUT



TIPO	Art.	H	A	CAPACITA'				
CM 1 - ER 16	8627	40	32	1 ÷ 10	0181	4993	3698	0364
CM 2 - ER 16	8628	42	32	1 ÷ 10	0186	4993	3698	0364
CM 2 - ER 20	8629	50	35	1 ÷ 13	0186	4994	3699	0787
CM 2 - ER 25	8630	54	42	1 ÷ 16	0186	4995	3669	0996
CM 2 - ER 32	8631	59	50	2 ÷ 20	0186	4996	3670	0988
CM 3 - ER 25	8632	53	42	1 ÷ 16	0188	4995	3669	0996
CM 3 - ER 32	8633	70	50	2 ÷ 20	0188	4996	3670	0988
CM 3 - ER 40	8634	80	63	3 ÷ 30	0188	4997	3671	0821
CM 4 - ER 32	8635	60	50	2 ÷ 20	0190	4996	3670	0988
CM 4 - ER 40	8636	81	63	3 ÷ 30	0190	4997	3671	0821
CM 4 - ER 50	8637	96	78	6 ÷ 34	0190	4998	3668	4055
CM 5 - ER 32	8638	50	50	2 ÷ 20	0191	4996	3670	0988
CM 5 - ER 40	8639	81	63	3 ÷ 30	0195	4997	3671	0821
CM 5 - ER 50	8640	91	78	6 ÷ 34	0195	4998	3668	4055

CASSETTE CON SERIE RIDOTTA DI PINZE ER, MANDRINO E CHIAVE

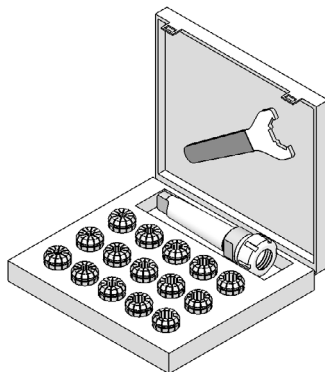
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS



TIPO	Art.				
KIT Rid CM 2 - ER 25	7727	8630	3695	3669	0996: ø 4-6-8-10-12-16
KIT Rid CM 2 - ER 32	7728	8631	3695	3670	0988: ø 4-6-8-10-12-16-20
KIT Rid CM 3 - ER 25	7729	8632	3695	3669	0996: ø 4-6-8-10-12-16
KIT Rid CM 3 - ER 32	7730	8633	3695	3670	0988: ø 4-6-8-10-12-16-20
KIT Rid CM 3 - ER 40	7731	8634	3695	3671	0821: ø 4-6-8-10-12-16-20-25
KIT Rid CM 4 - ER 32	7732	8635	3695	3670	0988: ø 4-6-8-10-12-16-20
KIT Rid CM 4 - ER 40	7733	8636	3695	3671	0821: ø 4-6-8-10-12-16-20-25

CASSETTE CON SERIE COMPLETA DI PINZE ER, MANDRINO E CHIAVE

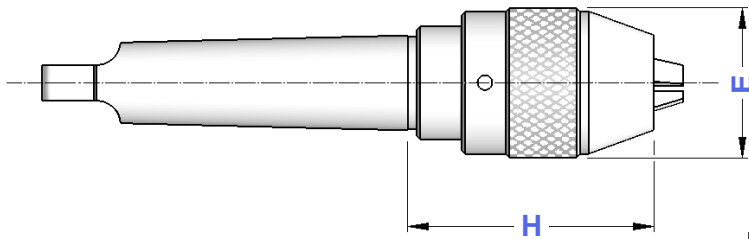
EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS



TIPO	Art.				
KIT CM 2 - ER 25	7734	8630	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT CM 2 - ER 32	7735	8631	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 3 - ER 25	7736	8632	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT CM 3 - ER 32	7737	8633	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 3 - ER 40	7738	8634	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)
KIT CM 4 - ER 32	7739	8635	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 4 - ER 40	7740	8636	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)

DIN 228-B

MANDRINI AUTOSERRANTI INTEGRALI - ROTAZIONE DESTRA MONOLITHIC DRILL CHUCKS - RIGHT SPIN



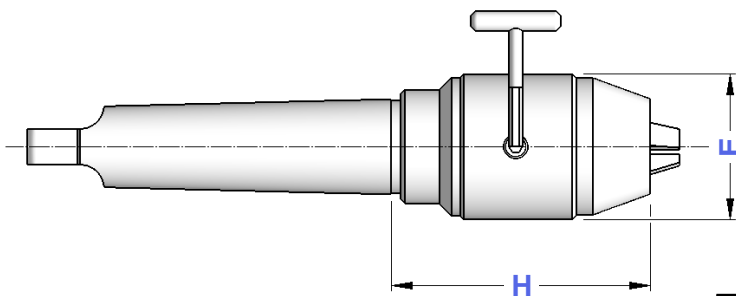
Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

TIPO	Art.	CAPACITA'	E	H	
CM 2 - DC 13	8646	1 ÷ 13	50	86	2370
CM 3 - DC 13	8647	1 ÷ 13	50	86	2370
CM 3 - DC 16	8648	3 ÷ 16	57	90	2371
CM 4 - DC 13	8649	1 ÷ 13	50	87	2370
CM 4 - DC 16	8650	3 ÷ 16	57	91	2371



DIN 228-B

MANDRINI AUTOSERRANTI INTEGRALI - ROTAZIONE DESTRA E SINISTRA MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN



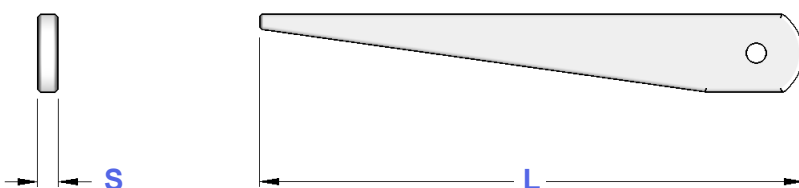
Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

TIPO	Art.	CAPACITA'	E	H	
CM 2 - DCU 13	8651	1 ÷ 13	50	87	2372
CM 3 - DCU 13	8652	1 ÷ 13	50	87	2372
CM 3 - DCU 16	8653	3 ÷ 16	50	92	
CM 4 - DCU 13	8654	1 ÷ 13	50	88	2372
CM 4 - DCU 16	8655	3 ÷ 16	50	94	



DIN 317

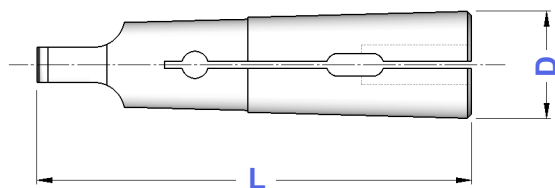
CACCIACONI CONE EJECTORS



TIPO	Art.	L	S
BC.CM 0	5235	90	2
BC.CM 1	5236	140	5
BC.CM 2			
BC.CM 3	5237	190	7
BC.CM 4	5238	225	10
BC.CM 5	5239	265	15
BC.CM 6			

**DIN
6329**

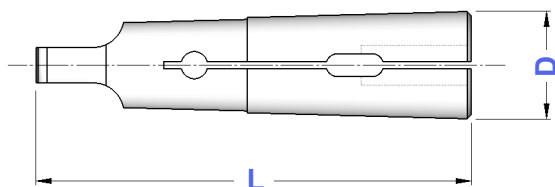
PINZE CONO MORSE PER PUNTE
MT COLLETS FOR TWIST DRILLS



TIPO	Art.	CAPACITA'	D	L	Einheits
CM 0 - PUNTE	5570 P	1,5 ÷ 5,5	9,0	59,5	510E
CM 1 - PUNTE	0640 P	1,5 ÷ 10,0	12,2	65,5	511E
CM 2 - PUNTE	0641 P	3,0 ÷ 15,0	18,0	80,0	514E
CM 3 - PUNTE	0642 P	8,0 ÷ 20,0	24,0	99,0	545E
CM 4 - PUNTE	0643 P	12,0 ÷ 25,0	31,5	124,0	548E
CM 5 - PUNTE	5571 P	20,0 ÷ 36,0	44,5	156,2	599E

**DIN
6328**

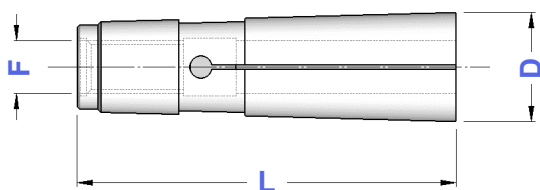
PINZE CONO MORSE PER MASCHI
MT COLLETS FOR MILLING CUTTERS



TIPO	Art.	CAPACITA'	D	L	Einheits
CM 0 - MASCHI	5570 M	2,5 ÷ 4,5	9,0	59,5	500E
CM 1 - MASCHI	0640 M	2,5 ÷ 10,0	12,2	65,5	501E
CM 2 - MASCHI	0641 M	4,5 ÷ 14,0	18,0	80,0	504E
CM 3 - MASCHI	0642 M	8,0 ÷ 18,0	24,0	99,0	535E
CM 4 - MASCHI	0643 M	12,0 ÷ 25,0	31,5	124,0	538E
CM 5 - MASCHI	5571 M	18,0 ÷ 36,0	44,5	156,2	589E

**UNI
4702**

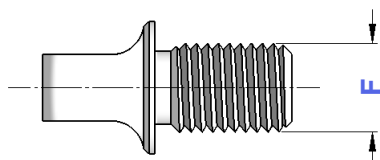
PINZE CONO MORSE CON FILETTO
THREADED MT COLLETS



TIPO	Art.	F	CAPACITA'	D	L	Einheits
CM 2	0752	M 10	1 ÷ 14	18,0	69,0	503E
CM 3	0712	M 12	3 ÷ 18	24,1	85,5	536E
CM 4	0865	M 16	4 ÷ 25	31,6	108,5	539E

**DIN 228
A ⇔ B**

TENONI
TONQUES



TIPO	Art.	F
T. CM 1 - M 6	4079	M 6
T. CM 2 - M 10	4080	M 10
T. CM 3 - M 12	4081	M 12
T. CM 4 - M 16	4082	M 16
T. CM 5 - M 20	4083	M 20

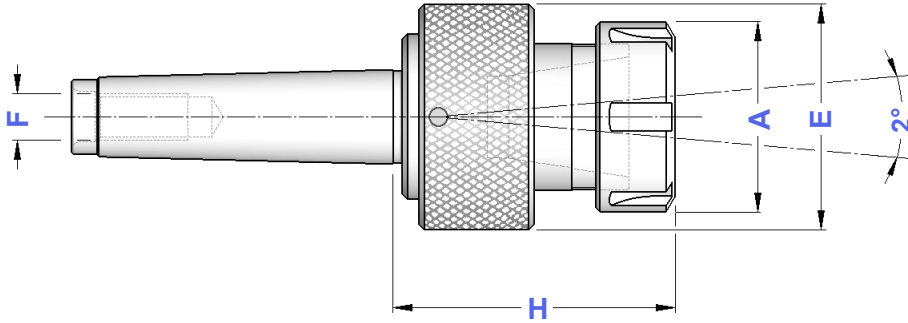
**DIN
228-A**

**PORTA ALESATORI OSCILLANTI CON ATTACCO CM
CON PINZA ER**

FLOATING REAMER HOLDERS WITH ER - DIN 6499 COLLET



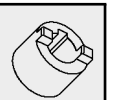
TIPO	Art.	A	E	H	F	CAPACITA'			
CM2 RM - ER 16	3532	32	40	55	M10	1 ÷ 10	4993	3698	0364
CM2 RM - ER 20	3533	35	40	60	M10	1 ÷ 13	4994	3699	0787
CM3 RM - ER 25	3534	42	61	63	M12	1 ÷ 16	4995	3669	0996
CM3 RM - ER 32	3535	50	61	75	M12	2 ÷ 20	4996	3670	0988



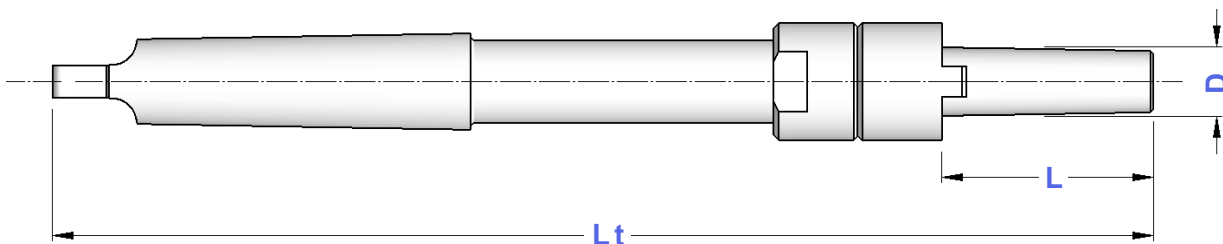
**DIN
217**

**PORTA ALESATORI A MANICOTTO CON ATTACCO CM
CON ESTRATTORE**

MT SHELL REAMER HOLDERS WITH EJECTOR



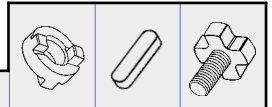
TIPO	Art.	D	L	Lt	
PA. CM 2 - D. 10	1906	10	40	220	0283
PA. CM 3 - D. 13	1907	13	45	250	0286
PA. CM 3 - D. 16	1913	16	50	261	0289
PA. CM 3 - D. 19	1914	19	56	270	0301
PA. CM 3 - D. 22	1922	22	63	278	0302
PA. CM 4 - D. 19	1925	19	56	298	0301
PA. CM 4 - D. 22	1939	22	63	312	0302
PA. CM 4 - D. 27	1944	27	71	325	0304
PA. CM 4 - D. 32	1945	32	80	345	0306
PA. CM 5 - D. 27	1946	27	71	359	0304
PA. CM 5 - D. 32	1964	32	80	376	0306
PA. CM 5 - D. 40	1966	40	90	396	0313
PA. CM 5 - D. 50	1972	50	100	416	0318



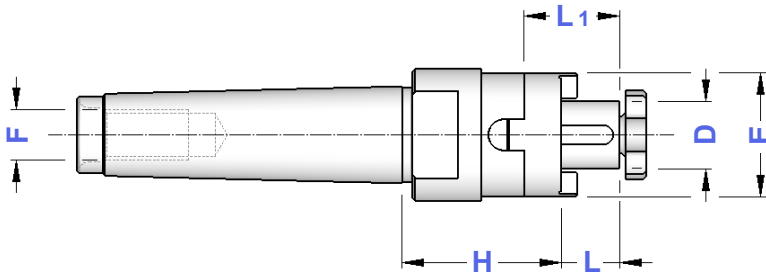
DIN 228-A

PORTAFRESE COMBINATI A CM CON FILETTO

MORSE TAPER SHANK WITH THREAD DIN 6358 SHELL END MILL HOLDERS



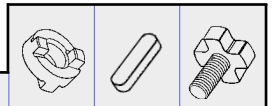
TIPO	Art.	D	H	L1	L	E	F			
CM 2 A - D. 16 C	4420	16	37	27	17	32	M10	4090	0115	4985
CM 2 A - D. 22 C	4421	22	42	31	19	40	M10	4091	0116	4986
CM 3 A - D. 16 C	4292	16	37	27	17	32	M12	4090	0115	4985
CM 3 A - D. 22 C	4293	22	42	31	19	40	M12	4091	0116	4986
CM 3 A - D. 27 C	4294	27	42	33	21	48	M12	4092	0122	4987
CM 3 A - D. 32 C	4295	32	63	38	24	58	M12	4093	0125	4988
CM 4 A - D. 16 C	4296	16	55	27	17	32	M16	4090	0115	4985
CM 4 A - D. 22 C	4297	22	55	31	19	40	M16	4091	0116	4986
CM 4 A - D. 27 C	4298	27	55	33	21	48	M16	4092	0122	4987
CM 4 A - D. 32 C	4299	32	55	38	24	58	M16	4093	0125	4988
CM 5 A - D. 22 C	4422	22	75	31	19	40	M20	4091	0116	4986
CM 5 A - D. 27 C	4423	27	75	33	21	48	M20	4092	0122	4987
CM 5 A - D. 32 C	4424	32	75	38	24	58	M20	4093	0125	4988
CM 5 A - D. 40 C	4425	40	75	41	27	70	M20	4094	0133	4989



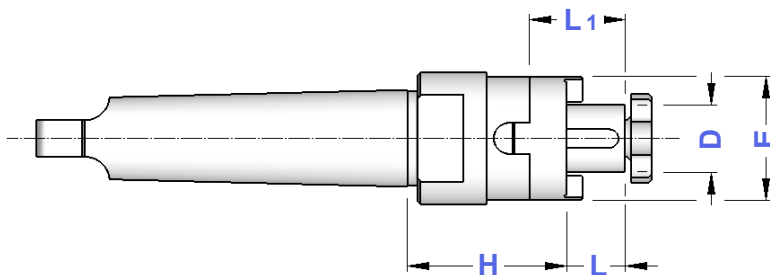
DIN 228-B

PORTAFRESE COMBINATI A CM CON TENONE

MORSE TAPER SHANK WITH TONQUE DIN 6358 SHELL END MILL HOLDERS



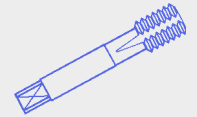
TIPO	Art.	D	H	L1	L	E			
CM 2 - D. 16 C	8656	16	37	27	17	32	4090	0115	4985
CM 2 - D. 22 C	8657	22	42	31	19	40	4091	0116	4986
CM 3 - D. 16 C	8658	16	37	27	17	32	4090	0115	4985
CM 3 - D. 22 C	8659	22	42	31	19	40	4091	0116	4986
CM 3 - D. 27 C	8660	27	42	33	21	48	4092	0122	4987
CM 3 - D. 32 C	8661	32	63	38	24	58	4093	0125	4988
CM 4 - D. 16 C	8662	16	55	27	17	32	4090	0115	4985
CM 4 - D. 22 C	8663	22	55	31	19	40	4091	0116	4986
CM 4 - D. 27 C	8664	27	55	33	21	48	4092	0122	4987
CM 4 - D. 32 C	8665	32	55	38	24	58	4093	0125	4988
CM 5 - D. 22 C	8666	22	75	31	19	40	4091	0116	4986
CM 5 - D. 27 C	8667	27	75	33	21	48	4092	0122	4987
CM 5 - D. 32 C	8668	32	75	38	24	58	4093	0125	4988
CM 5 - D. 40 C	8669	40	75	41	27	70	4094	0133	4989



DIN 228-A

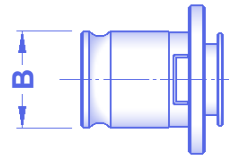
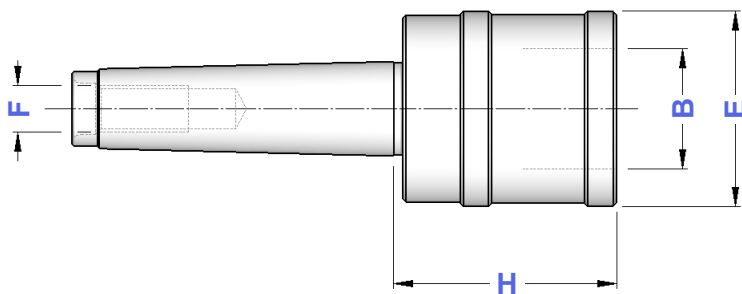
MASCHIATORI CAMBIO RAPIDO A CM CON FILETTO SENZA COMPENSAZIONE

QUICK CHANGE TAP HOLDERS WITH THREAD WITHOUT COMPENSATION



TIPO	Art.	H	E	B	F	
CM 2 A FISSO - B. 1	4696	44	36	19	M10	M 3 ÷ M 12 (*M16)
CM 2 A FISSO - B. 2	4697	61	53	31	M10	M 6 ÷ M 20 (*M30)
CM 3 A FISSO - B. 1	4698	44	36	19	M12	M 3 ÷ M 12 (*M16)
CM 3 A FISSO - B. 2	4699	61	53	31	M12	M 6 ÷ M 20 (*M30)

* Bussole con grani
Adapters with screws

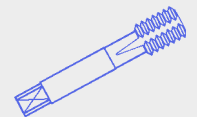


Bussole a maschiare
Tap Adapters
Pag. 172 - 175

DIN 228-B

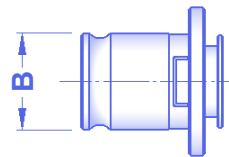
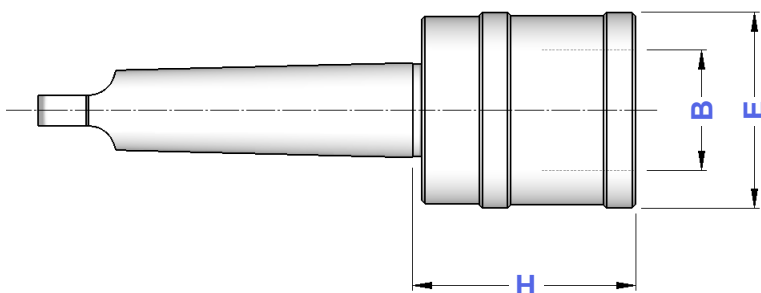
MASCHIATORI CAMBIO RAPIDO A CM CON TENONE SENZA COMPENSAZIONE

QUICK CHANGE TAP HOLDERS WITH TONQUE WITHOUT COMPENSATION

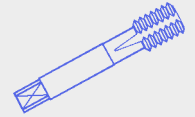


TIPO	Art.	H	E	B	
CM 1 FISSO - B. 0	4279	39	26	13	M 1 ÷ M 10
CM 2 FISSO - B. 0	4282	40	26	13	M 1 ÷ M 10
CM 2 FISSO - B. 1	4283	45	36	19	M 3 ÷ M 12 (*M16)
CM 2 FISSO - B. 2	4027	61	50	31	M 6 ÷ M 20 (*M30)
CM 3 FISSO - B. 1	4284	45	36	19	M 3 ÷ M 12 (*M16)
CM 3 FISSO - B. 2	4285	61	50	31	M 6 ÷ M 20 (*M30)
CM 4 FISSO - B. 2	4340	61	50	31	M 6 ÷ M 20 (*M30)

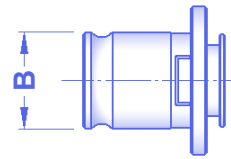
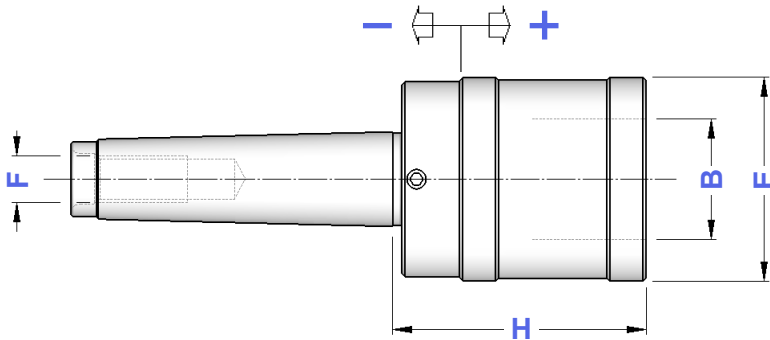
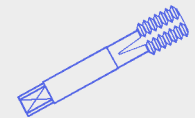
* Bussole con grani
Adapters with screws



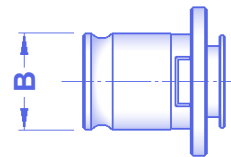
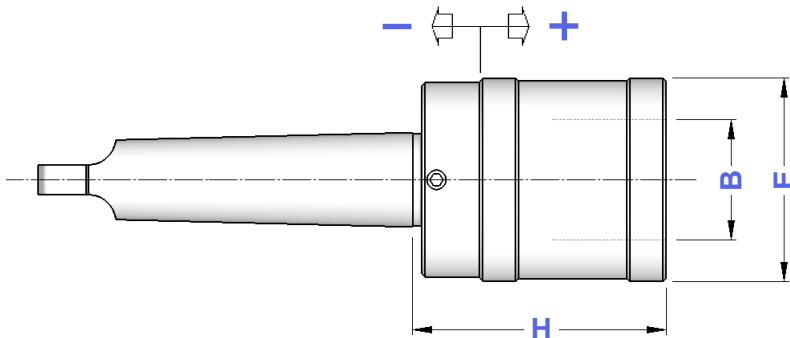
Bussole a maschiare
Tap Adapters
Pag. 172 - 175

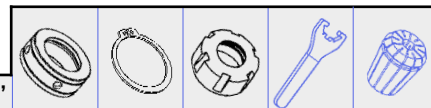
**DIN
228-A****MASCHIATORI CAMBIO RAPIDO A CM CON FILETTO
DOPPIA COMPENSAZIONE**
DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS WITH THREAD

TIPO	Art.	H	E	B	F	COMPENSAZIONE	
CM 2 A - B. 0	4287	44	26	13	M10	- 6,5 + 6,5	M 1 ÷ M 10
CM 2 A - B. 1	4286	46	36	19	M10	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
CM 3 A - B. 1	4288	46	36	19	M12	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
CM 3 A - B. 2	4289	70	53	31	M12	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
CM 4 A - B. 2	4290	71	53	31	M16	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
CM 4 A - B. 3	4291	104	78	48	M16	- 20,0 + 20,0	M14 ÷ M 33 (*M48)
CM 5 A - B. 3	4426	104	78	48	M20	- 20,0 + 20,0	M14 ÷ M 33 (*M48)

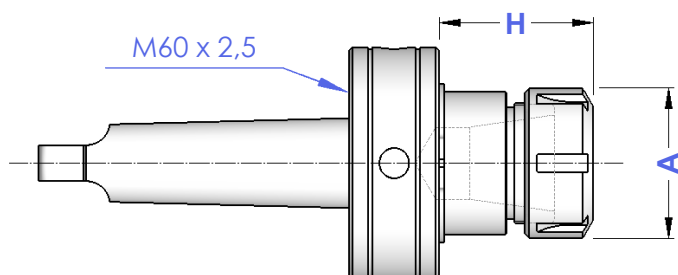
* Bussole con grani
Adapters with screwsBussole a maschiare
Tap Adapters
Pag. 172 - 175I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)**DIN
228-B****MASCHIATORI CAMBIO RAPIDO A CM CON TENONE
DOPPIA COMPENSAZIONE**
DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS WITH TONQUE

TIPO	Art.	H	E	B	COMPENSAZIONE	
CM 2 - B.0	4278	44	26	13	- 6,5 + 6,5	M 1 ÷ M 10
CM 2 - B.1	3846	46	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
CM 3 - B.1	3847	46	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
CM 3 - B.2	3848	69	53	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
CM 4 - B.2	3849	70	53	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
CM 4 - B.3	3850	104	78	48	- 20,0 + 20,0	M14 ÷ M 33 (*M48)
CM 5 - B.3	4427	104	78	48	- 20,0 + 20,0	M14 ÷ M 33 (*M48)

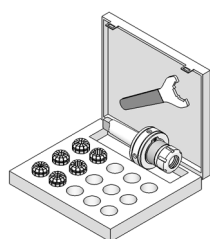
* Bussole con grani
Adapters with screwsBussole a maschiare
Tap Adapters
Pag. 172 - 175I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

RAG**PORTAPINZE ER - ATTACCO TIPO FAMUP RAG**
FAMUP RAG TYPE SHANK ER - DIN 6499 COLLET CHUCKS

TIPO	Art.	H	A	CAPACITA'					
CM4 FAMUP RAG - ER 32	4277	52	50	2 ÷ 20	2420	0009	4996	3670	0988
CM4 FAMUP RAG - ER 40	4280	55	63	3 ÷ 30	2420	0077	4997	3671	0821

**CASSETTE CON SERIE RIDOTTA
DI PINZE ER MANDRINO E CHIAVE**

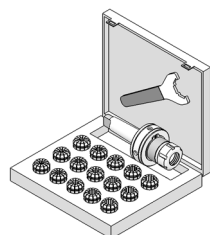
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS



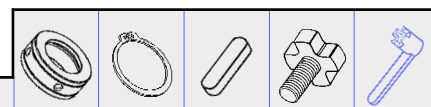
TIPO	Art.				
KIT Rid CM 4 RAG - ER 32	7531	4277	3695	3670	0988: ø 4 - 6 - 8 - 10 - 12 - 16 - 20
KIT Rid CM 4 RAG - ER 40	7721	4280	3695	3671	0821: ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25

**CASSETTE CON SERIE COMPLETA
DI PINZE ER MANDRINO E CHIAVE**

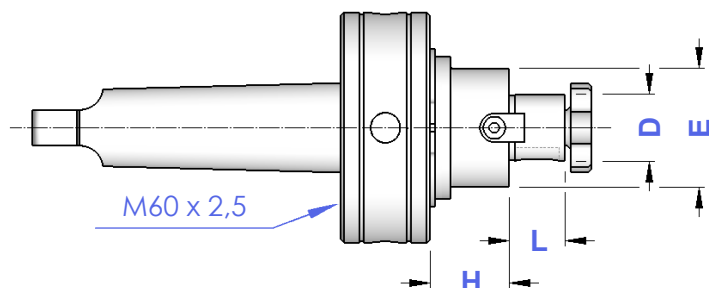
EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS



TIPO	Art.				
KIT CM 4 RAG - ER 32	7515	4277	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT CM 4 RAG - ER 40	7722	4280	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)

RAG**PORTAFRESE FISSO - ATTACCO TIPO FAMUP RAG**
FAMUP RAG TYPE SHANK DIN 6357 FACE MILL HOLDERS






TIPO	Art.	D	H	L	E					
CM 4 RAG - D. 16 FISSO	2414	16	27	17	32	2420	0009	0041	4985	4562
CM 4 RAG - D. 22 FISSO	2415	22	27	19	40	2420	0009	0044	4986	4563
CM 4 RAG - D. 27 FISSO	2416	27	27	21	48	2420	0009	0045	4987	4564
CM 4 RAG - D. 32 FISSO	2417	32	27	24	58	2420	0077	0047	4988	4565

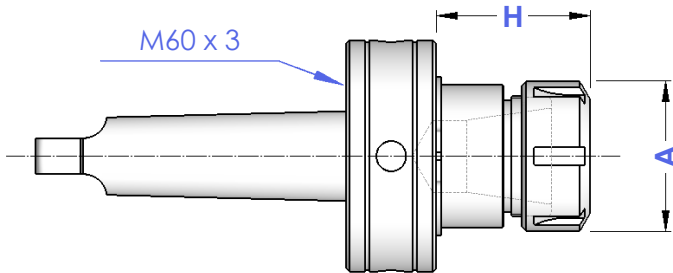


BIMAK**PORTAPINZE ER - ATTACCO TIPO BIMAK**

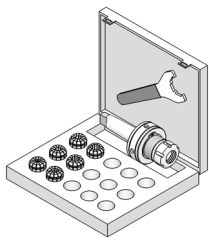
BIMAK TYPE SHANK ER - DIN 6499 COLLET CHUCKS







TIPO	Art.	H	A	CAPACITA'					
CM 4 BIMAK - ER 32	4281	52	50	2 ÷ 20	2423	0009	4996	3670	0988
CM 4 BIMAK - ER 40	4354	55	63	3 ÷ 30	2423	0077	4997	3671	0821

**CASSETTE CON SERIE RIDOTTA DI PINZE ER MANDRINO E CHIAVE**

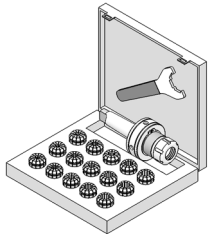
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS







TIPO	Art.				
KIT Rid CM 4 BIMAK - ER 32	7723	4281	3695	3670	0988: \varnothing 4-6-8-10-12-16-20
KIT Rid CM 4 BIMAK - ER 40	7724	4354	3695	3671	0821: \varnothing 4-6-8-10-12-16-20-25

CASSETTE CON SERIE COMPLETA DI PINZE ER MANDRINO E CHIAVE

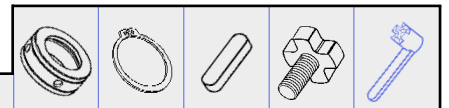
EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS








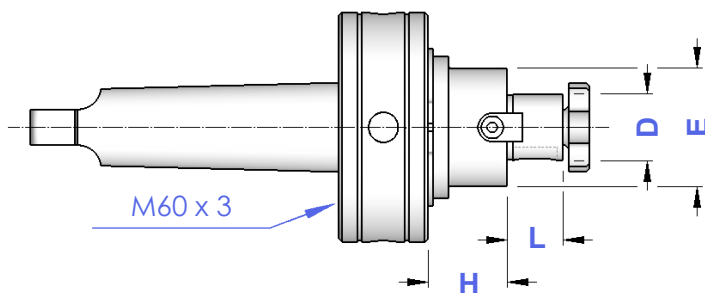
TIPO	Art.				
KIT CM 4 BIMAK - ER 32	7725	4281	3695	3670	0988: \varnothing 3 ÷ 20 (18 Pinze)
KIT CM 4 BIMAK - ER 40	7726	4354	3695	3671	0821: \varnothing 4 ÷ 26 (23 Pinze)

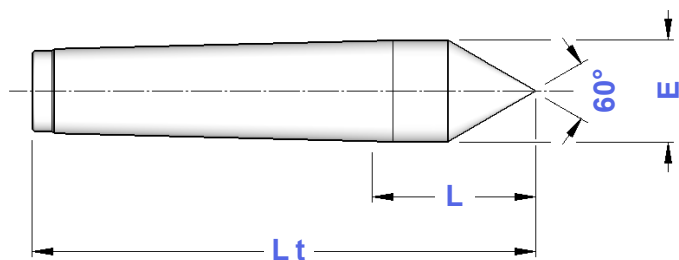
BIMAK**PORTAFRESE FISSO - ATTACCO TIPO BIMAK**

BIMAK TYPE SHANK DIN 6357 FACE MILL HOLDERS

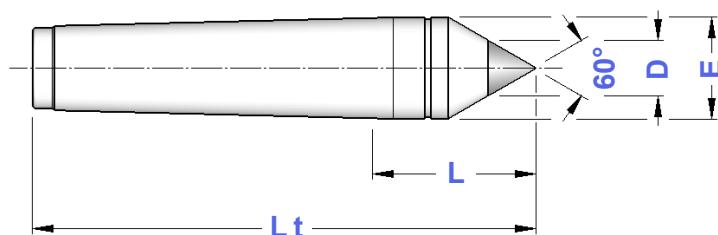


TIPO	Art.	D	H	L	E					
CM 4 BIMAK - D. 16 FISSO	2260	16	27	17	32	2423	0009	0041	4985	4562
CM 4 BIMAK - D. 22 FISSO	2261	22	27	19	40	2423	0009	0044	4986	4563
CM 4 BIMAK - D. 27 FISSO	2262	27	27	21	48	2423	0009	0045	4987	4564
CM 4 BIMAK - D. 32 FISSO	2263	32	27	24	58	2423	0077	0047	4988	4565

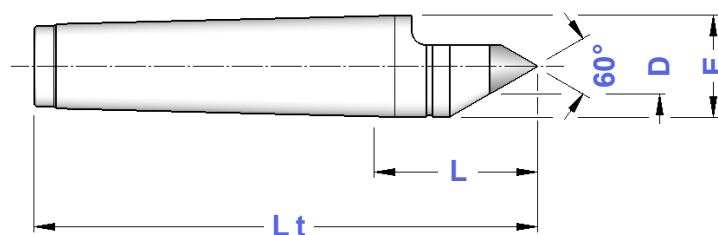


DIN 806**CONTROPUNTE ATTACCO CM IN ACCIAIO**
STEEL TYPE MORSE TAPER SHANK TAILSTOCKS**CP.A**

TIPO	Art.	E	L	Lt
CP. A - CM 1	4335	12,2	26,5	80
CP. A - CM 2	4336	18,0	36,0	100
CP. A - CM 3	4337	24,1	44,0	125
CP. A - CM 4	4338	31,6	57,5	160
CP. A - CM 5	4339	44,7	70,5	200
CP. A - CM 6	8487	63,8	88,0	270

DIN 806**CONTROPUNTE ATTACCO CM CON METALLO DURO**
MORSE TAPER SHANK TAILSTOCKS WITH SOLID CARBIDE**CP.W**

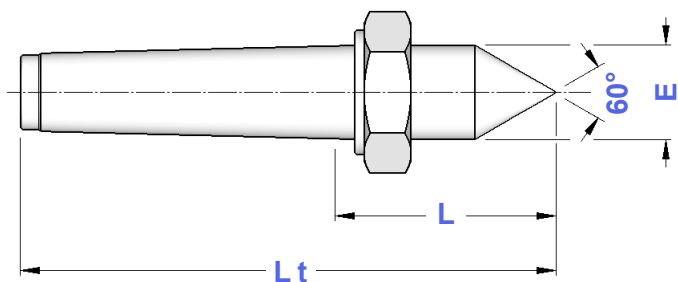
TIPO	Art.	D	E	L	Lt
CP. W - CM 1	3957	7	12,2	26,5	80
CP. W - CM 2	4341	7	18,0	36,0	100
CP. W - CM 3	4342	11	24,1	44,0	125
CP. W - CM 4	4343	14	31,6	57,5	160
CP. W - CM 5	4344	18	44,7	70,5	200
CP. W - CM 6	8488	18	63,8	88,0	270

DIN 806**CONTROPUNTE PER RETTIFICA CON METALLO DURO**
MT SHANK TAILSTOCKS WITH SOLID CARBIDE FOR GRINDING**CP.WR**

TIPO	Art.	D	E	L	Lt
CP. WR - CM 1	3959	7	12,2	26,5	80
CP. WR - CM 2	4345	7	18,0	36,0	100
CP. WR - CM 3	4346	11	24,1	44,0	125
CP. WR - CM 4	4347	14	31,6	57,5	160
CP. WR - CM 5	4348	18	44,7	70,5	200
CP. WR - CM 6	8489	18	63,8	88,0	270

DIN 807

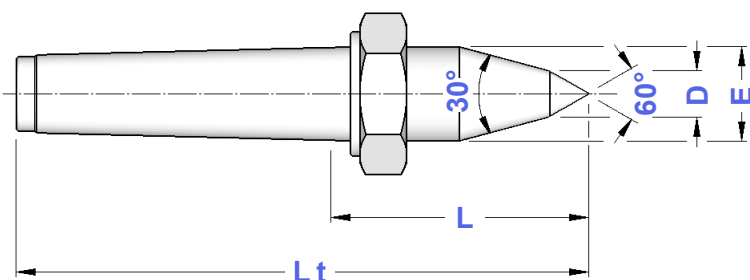
**CONTROPUNTE ATTACCO CM IN ACCIAIO
CON ESTRATTORE**
STEEL TAILSTOCKS WITH EXTRACTOR

CP.E

TIPO	Art.	E	L	Lt
CP. E - CM 1	5380	12,2	26,5	80
CP. E - CM 2	5381	18,0	36,0	100
CP. E - CM 3	5382	24,1	44,0	125
CP. E - CM 4	5383	31,6	57,5	160
CP. E - CM 5	5384	44,7	70,5	200
CP. E - CM 6	8490	63,8	88,0	270

DIN 807

**CONTROPUNTE ATTACCO CM IN ACCIAIO
CON ESTRATTORE - TIPO COPY**
STEEL TAILSTOCKS WITH EXTRACTOR - COPY TYPE

CP.EL

TIPO	Art.	D	E	L	Lt
CP. EL - CM 1	8491	5	12,2	26,5	80,0
CP. EL - CM 2	5385	10	18,0	54,0	118,0
CP. EL - CM 3	5386	10	24,1	67,0	148,0
CP. EL - CM 4	5387	14	31,6	84,0	186,5
CP. EL - CM 5	5388	16	44,7	112,5	242,0
CP. EL - CM 6	8492	20	63,8	148,0	330,0

TP

TAMPONI PULITORI PER SEDE CONO MORSE
MORSE TAPER CLEANERS

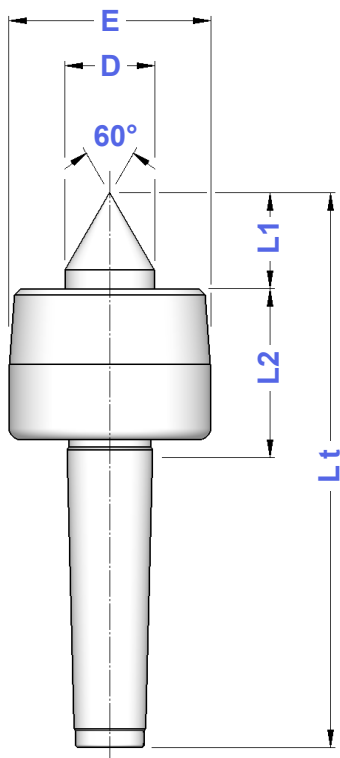


TIPO	Art.
TP - CM. 1	4411
TP - CM. 2	4412
TP - CM. 3	4413
TP - CM. 4	4414
TP - CM. 5	4415
TP - CM. 6	5065

La gamma completa di Tamponi Pulitori si trova a pagina 196 di questo Catalogo
Complete range of Taper Cleaners is on page 196 in this Catalogue

CP.R

CONTROPUNTE ROTANTI CON ATTACCO CM MORSE TAPER SHANK ROTARY TAILSTOCKS



TIPO STANDARD

STANDARD TYPE

TIPO	Art.	E	D	L1	L2	Lt	Rpm Max	Kg. Max
CP. RS - CM 1	4349	36	15	17,0	43,5	114,0	7000	100
CP. RS - CM 2	4350	45	20	24,0	41,0	129,0	7000	200
CP. RS - CM 3	4351	60	25	31,0	48,5	160,5	5000	500
CP. RS - CM 4	4352	70	32	41,0	61,5	205,0	3800	800
CP. RS - CM 5	4353	90	40	50,5	78,5	258,5	3000	2000
CP. RS - CM 6	8330	105	50	57,5	94,5	334,0	2600	3500

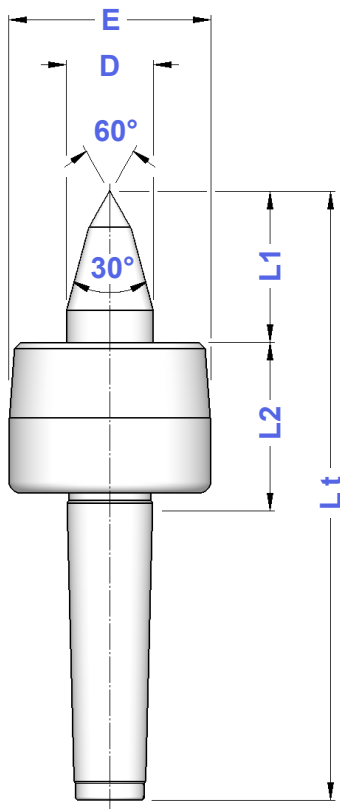
TIPO A DOPPIA SFERA

DOUBLE SPHERES TYPE

TIPO	Art.	E	D	L1	L2	Lt	Rpm Max	Kg. Max
CP. RD - CM 2	5311	32	15	20	42	126,0	6000	200
CP. RD - CM 3	5312	34	15	20	43	144,0	6000	400
CP. RD - CM 4	5313	43	20	26	50	178,5	6000	800
CP. RD - CM 5	5314	58	30	39	66	234,5	4000	1200

CP.RC

CONTROPUNTE ROTANTI COPY CON ATTACCO CM MORSE TAPER SHANK COPY ROTARY TAILSTOCKS



TIPO COPY STANDARD

STANDARD COPY TYPE

TIPO	Art.	E	D	L1	L2	Lt	Rpm Max	Kg. Max
CP. RCS - CM 1	5391	28	10	16	30,0	101,0	3800	80
CP. RCS - CM 2	5392	45	20	34	41,0	139,0	7000	140
CP. RCS - CM 3	5393	60	25	47	48,5	176,5	5000	400
CP. RCS - CM 4	5394	70	32	53	61,5	217,0	3800	500
CP. RCS - CM 5	5395	90	40	65	78,5	273,0	3000	1200
CP. RCS - CM 6	8331	105	50	78	94,5	354,5	2600	2500

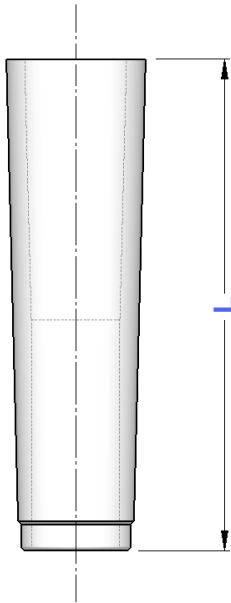
TIPO COPY A DOPPIA SFERA

DOUBLE SPHERES COPY TYPE

TIPO	Art.	E	D	L1	L2	Lt	Rpm Max	Kg. Max
CP. RCD - CM 2	5396	32	15	29	42	135,0	6000	150
CP. RCD - CM 3	5397	34	15	30	43	154,0	6000	300
CP. RCD - CM 4	5398	43	20	36	50	188,5	6000	700
CP. RCD - CM 5	5399	58	30	46	70	245,5	4000	1000

RCM.P

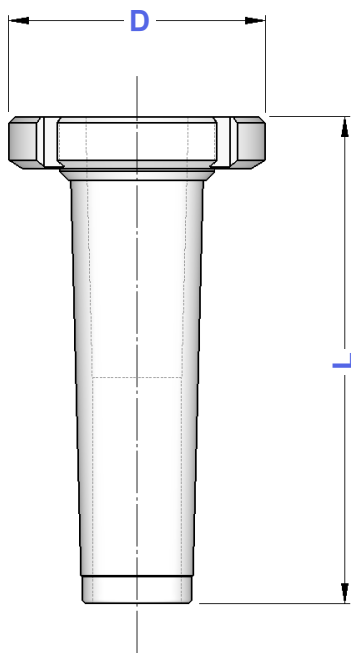
RIDUZIONI A CM PASSANTI LOOP MORSE TAPER ADAPTERS



TIPO	Art.	Est.	Int.	L
RCM.P/2 - 1	4097/2-1	2	1	50
RCM.P/3 - 1	4097/3-1	3	1	55
RCM.P/3 - 2	4097/3-2	3	2	60
RCM.P/4 - 1	4097/4-1	4	1	65
RCM.P/4 - 2	4097/4-2	4	2	70
RCM.P/4 - 3	4097/4-3	4	3	70
RCM.P/5 - 2	4097/5-2	5	2	80
RCM.P/5 - 3	4097/5-3	5	3	80
RCM.P/5 - 4	4097/5-4	5	4	80
RCM.P/6 - 3	4097/6-3	6	3	110
RCM.P/6 - 4	4097/6-4	6	4	110
RCM.P/6 - 5	4097/6-5	6	5	110

RCM.E

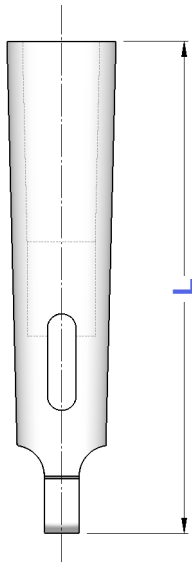
RIDUZIONI A CM PASSANTI CON ESTRATTORE MORSE TAPER ADAPTERS WITH EXTRACTOR



TIPO	Art.	Est.	Int.	L	D
RCM.E/2 - 1	4042/2-1	2	1	84	38
RCM.E/3 - 1	4042/3-1	3	1	102	48
RCM.E/3 - 2	4042/3-2	3	2	102	48
RCM.E/4 - 1	4042/4-1	4	1	122	57
RCM.E/4 - 2	4042/4-2	4	2	122	57
RCM.E/4 - 3	4042/4-3	4	3	122	57
RCM.E/5 - 2	4042/5-2	5	2	153	72
RCM.E/5 - 3	4042/5-3	5	3	153	72
RCM.E/5 - 4	4042/5-4	5	4	153	72

RIDUZIONI A CONO MORSE
MORSE TAPER ADAPTERS

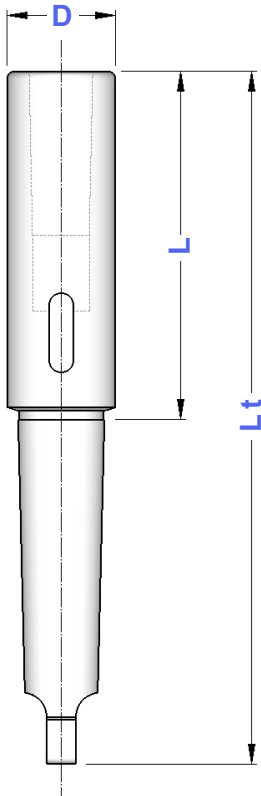
DIN
2185



TIPO	Art.	Est.	Int.	L
RCM.C/1 -0	4098/1-0	1	0	80
RCM.C/2 -1	4098/2-1	2	1	92
RCM.C/3 -1	4098/3-1	3	1	99
RCM.C/3 -2	4098/3-2	3	2	112
RCM.C/4 -1	4098/4-1	4	1	124
RCM.C/4 -2	4098/4-2	4	2	124
RCM.C/4 -3	4098/4-3	4	3	140
RCM.C/5 -1	4098/5-1	5	1	156
RCM.C/5 -2	4098/5-2	5	2	156
RCM.C/5 -3	4098/5-3	5	3	156
RCM.C/5 -4	4098/5-4	5	4	171
RCM.C/6 -2	4098/6-2	6	2	218
RCM.C/6 -3	4098/6-3	6	3	218
RCM.C/6 -4	4098/6-4	6	4	218
RCM.C/6 -5	4098/6-5	6	5	218

RIDUZIONI A CM PROLUNGATE
EXTENDED MORSE TAPER ADAPTERS

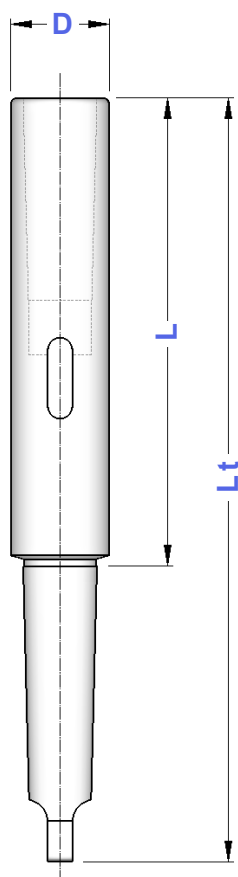
DIN
2187



TIPO	Art.	Est.	Int.	L	Lt	D
RCM.L/1 -1	4099/1-1	1	1	83,0	145	20
RCM.L/1 -2	4099/1-2	1	2	98,0	160	30
RCM.L/2 -1	4099/2-1	2	1	85,0	160	20
RCM.L/2 -2	4099/2-2	2	2	100,0	175	30
RCM.L/2 -3	4099/2-3	2	3	121,0	196	36
RCM.L/3 -1	4099/3-1	3	1	81,0	175	20
RCM.L/3 -2	4099/3-2	3	2	100,0	194	30
RCM.L/3 -3	4099/3-3	3	3	121,0	215	36
RCM.L/3 -4	4099/3-4	3	4	146,0	240	48
RCM.L/4 -1	4099/4-1	4	1	82,5	200	20
RCM.L/4 -2	4099/4-2	4	2	97,5	215	30
RCM.L/4 -3	4099/4-3	4	3	122,5	240	36
RCM.L/4 -4	4099/4-4	4	4	147,5	265	48
RCM.L/4 -5	4099/4-5	4	5	182,5	300	63
RCM.L/5 -1	4099/5-1	5	1	82,5	232	20
RCM.L/5 -2	4099/5-2	5	2	97,5	247	30
RCM.L/5 -3	4099/5-3	5	3	118,5	268	36
RCM.L/5 -4	4099/5-4	5	4	150,5	300	48
RCM.L/5 -5	4099/5-5	5	5	185,5	335	63
RCM.L/5 -6	4099/5-6	5	6	247,0	396	82
RCM.L/6 -3	4099/6-3	6	3	120,0	330	36
RCM.L/6 -4	4099/6-4	6	4	145,0	335	48
RCM.L/6 -5	4099/6-5	6	5	180,0	390	63
RCM.L/6 -6	4099/6-6	6	6	241,0	451	82

PROLUNGHE A CM EXTRALUNGHE

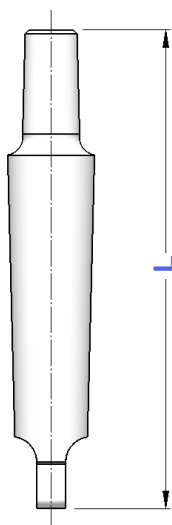
EXTRA-EXTENDED MORSE TAPER EXTENSIONS



TIPO	Art.	Est.	Int.	L	Lt	D
RXL 1 - 1 / 200	8800	1	1	138,0	200	20
RXL 1 - 1 / 250	8801	1	1	188,0	250	20
RXL 1 - 1 / 300	8802	1	1	238,0	300	20
RXL 1 - 1 / 350	8803	1	1	288,0	350	20
RXL 1 - 1 / 400	8804	1	1	338,0	400	20
RXL 1 - 1 / 450	8805	1	1	388,0	450	20
RXL 1 - 1 / 500	8806	1	1	438,0	500	20
RXL 2 - 2 / 200	8807	2	2	125,0	200	25
RXL 2 - 2 / 250	8808	2	2	175,0	250	25
RXL 2 - 2 / 300	8809	2	2	225,0	300	25
RXL 2 - 2 / 350	8810	2	2	275,0	350	25
RXL 2 - 2 / 400	8811	2	2	325,0	400	25
RXL 2 - 2 / 450	8812	2	2	375,0	450	25
RXL 2 - 2 / 500	8813	2	2	425,0	500	25
RXL 2 - 2 / 600	8814	2	2	525,0	600	25
RXL 3 - 3 / 250	8815	3	3	156,0	250	32
RXL 3 - 3 / 300	8816	3	3	206,0	300	32
RXL 3 - 3 / 350	8817	3	3	256,0	350	32
RXL 3 - 3 / 400	8818	3	3	306,0	400	32
RXL 3 - 3 / 450	8819	3	3	356,0	450	32
RXL 3 - 3 / 500	8820	3	3	406,0	500	32
RXL 3 - 3 / 600	8821	3	3	506,0	600	32
RXL 4 - 4 / 300	8822	4	4	182,5	300	40
RXL 4 - 4 / 350	8823	4	4	232,5	350	40
RXL 4 - 4 / 400	8824	4	4	282,5	400	40
RXL 4 - 4 / 450	8825	4	4	332,5	450	40
RXL 4 - 4 / 500	8826	4	4	382,5	500	40
RXL 4 - 4 / 600	8827	4	4	482,5	600	40

RIDUZIONI CM PER DIN 238

MORSE TAPER ADAPTERS TO DIN 238



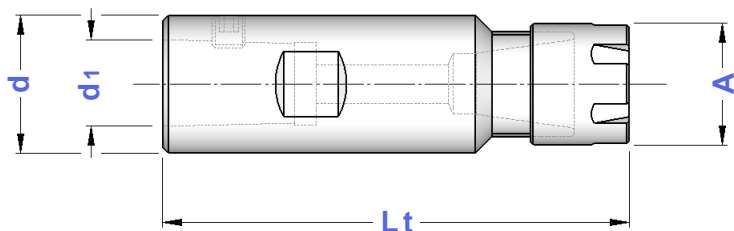
**DIN
238**

TIPO	Art.	CM	"B"	L
RCM. B / 1 - B10	4096/1-B10	1	10	83
RCM. B / 1 - B12	4096/1-B12	1	12	89
RCM. B / 1 - B16	4096/1-B16	1	16	99
RCM. B / 1 - B18	4096/1-B18	1	18	99
RCM. B / 2 - B10	4096/2-B10	2	10	105
RCM. B / 2 - B12	4096/2-B12	2	12	106
RCM. B / 2 - B16	4096/2-B16	2	16	112
RCM. B / 2 - B18	4096/2-B18	2	18	119
RCM. B / 2 - B22	4096/2-B22	2	22	130
RCM. B / 3 - B12	4096/3-B12	3	12	125
RCM. B / 3 - B16	4096/3-B16	3	16	134
RCM. B / 3 - B18	4096/3-B18	3	18	140
RCM. B / 3 - B22	4096/3-B22	3	22	147
RCM. B / 4 - B12	4096/4-B12	4	12	152
RCM. B / 4 - B16	4096/4-B16	4	16	156
RCM. B / 4 - B18	4096/4-B18	4	18	164
RCM. B / 4 - B22	4096/4-B22	4	22	176
RCM. B / 4 - B24	4096/4-B24	4	24	186
RCM. B / 5 - B16	4096/5-B16	5	16	190
RCM. B / 5 - B18	4096/5-B18	5	18	204
RCM. B / 5 - B22	4096/5-B22	5	22	213
RCM. B / 5 - B24	4096/5-B24	5	24	221





**DIN
238**

PORTAPINZE ER ATTACCO DIN 238 - GHIERA MINI

ER - DIN 6499 COLLET CHUCKS WITH MINI NUT



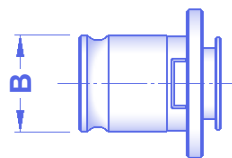
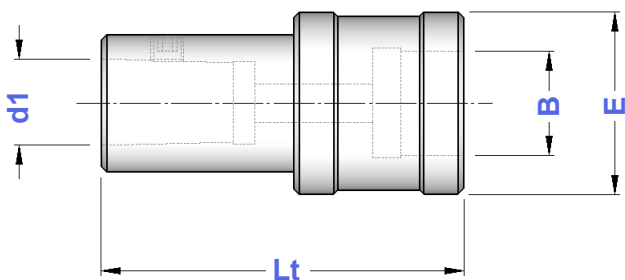
Fornibili anche
con attacco Jacobs
Also available with Jacobs shank

TIPO	Art.	Lt	d1	d	A	CAPACITA'				
"B12" - ER 11 GM	3193	63	12,06	25	16	1 ÷ 7	0370	0432	5718	5573
"B12" - ER 16 GM	3194	55	12,06	25	22	1 ÷ 10	0020	1229	5719	0364
"B12" - ER 20 GM	3221	67	12,06	25	28	1 ÷ 13	0020	1230	5720	0787
"B16" - ER 16 GM	3195	85	15,73	25	22	1 ÷ 10	0020	1229	5719	0364
"B16" - ER 20 GM	3196	80	15,73	25	28	1 ÷ 13	0020	1230	5720	0787
"B18" - ER 20 GM	3197	74	17,78	28	28	1 ÷ 13	0020	1230	5720	0787

**DIN
238**

MASCHIATORI ATTACCO DIN 238 SENZA COMPENSAZIONE

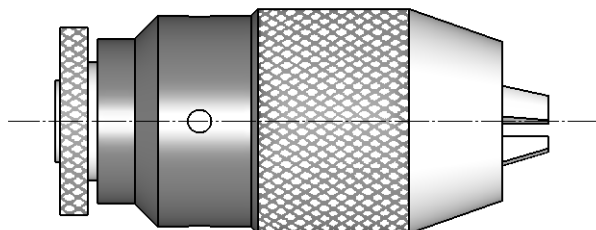
TAP HOLDERS WITHOUT COMPENSATION



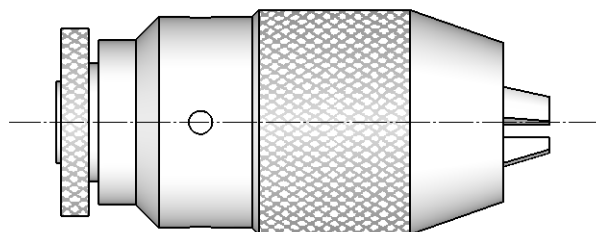
Bussole a maschiare
Tap Adapters
Pag. 172 - 175

* Bussole con grani
Adapters with screws

TIPO	Art.	Lt	d1	E	B	
"B12" - B.0 FISSO	0244	55	12,06	26	13	M 1 ÷ M 10
"B12" - B.1 FISSO	0320	59	12,06	33	19	M 3 ÷ M 12 (*M16)
"B16" - B.1 FISSO	0340	65	15,73	33	19	M 3 ÷ M 12 (*M16)
"B16" - B.2 FISSO	0071	84	15,73	50	31	M 6 ÷ M 20 (*M30)
"B18" - B.1 FISSO	0384	73	17,78	33	19	M 3 ÷ M 12 (*M16)
"B18" - B.2 FISSO	0072	92	17,78	50	31	M 6 ÷ M 20 (*M30)

**DIN
238****MANDRINI AUTOSERRANTI**
KEYLESS DRILL CHUCKS**PRECISIONE****0,07**

TIPO	Art.	CAPACITA'			
"B 10" - DC 6	2800	0,5 ÷ 6,5	9010	9018	—
"B 10" - DC 8	2801	0 ÷ 8	9011	9019	2368
"B 10" - DC 10	2834	0 ÷ 10	9012	9020	2369
"B 12" - DC 8	2802	0 ÷ 8	9011	9019	2368
"B 12" - DC 10	2803	0 ÷ 10	9012	9020	2369
"B 12" - DC 13	2804	0 ÷ 13	9013	9021	2370
"B 16" - DC 10	2805	0 ÷ 10	9014	9022	2369
"B 16" - DC 13	2806	0 ÷ 13	9013	9021	2370
"B 16" - DC 16	2807	3 ÷ 16	9015	9023	2371
"B 18" - DC 16	2808	3 ÷ 16	9015	9023	2371

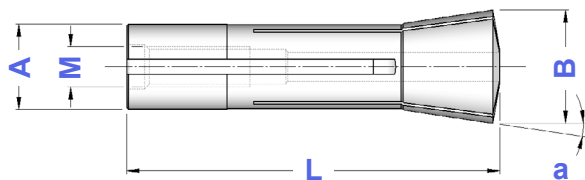
**DIN
238****MANDRINI AUTOSERRANTI DI ALTA PRECISIONE**
HIGH PRECISION KEYLESS DRILL CHUCKS**PRECISIONE****≤ 0,05**





TIPO	Art.	CAPACITA'			
"B 10" - DC 8 Precision	2853	0 ÷ 8	9011	9019	2368
"B 10" - DC 10 Precision	2854	0 ÷ 10	9012	9020	2369
"B 12" - DC 8 Precision	2810	0 ÷ 8	9011	9019	2368
"B 12" - DC 10 Precision	2856	0 ÷ 10	9012	9020	2369
"B 12" - DC 13 Precision	2858	0 ÷ 13	9016	9021	2370
"B 16" - DC 10 Precision	2811	0 ÷ 10	9014	9022	2369
"B 16" - DC 13 Precision	2812	0 ÷ 13	9016	9021	2370
"B 16" - DC 16 Precision	2813	3 ÷ 16	9017	9023	2371
"B 18" - DC 16 Precision	2818	3 ÷ 16	9017	9023	2371

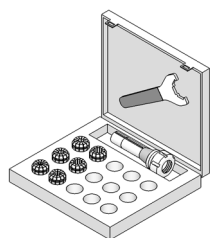
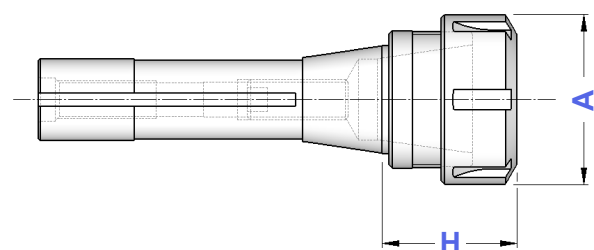
R8**PINZA BRIDGEPORT R8**
BRIDGEPORT R8 COLLET

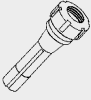



Einheits

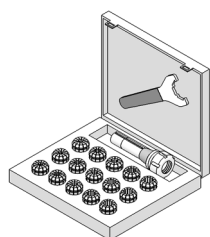
TIPO	Art.	CAPACITA'	A	B	L	α	M	
PINZA R8	0716	2,0 ÷ 22 1/16" ÷ 7/8"	24,12	32	106	8° 35'	7/16 - 20"	369E

**R8****PORTAPINZE ER - GHIERA STANDARD**
ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT

TIPO	Art.	H	A	CAPACITA'				
PORTAPINZA R8 - ER 32	2973	40	50	2 ÷ 20	0188	4996	3670	0988
PORTAPINZA R8 - ER 40	2974	73	63	3 ÷ 30	0188	4997	3671	0821

**CASSETTE CON SERIE RIDOTTA
DI PINZE ER MANDRINO E CHIAVE**
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS

TIPO	Art.				
KIT Rid R 8 - ER 32	7668	2973	3695	3670	0988: \varnothing 4-6-8-10-12-16-20

**CASSETTE CON SERIE COMPLETA
DI PINZE ER MANDRINO E CHIAVE**
EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS

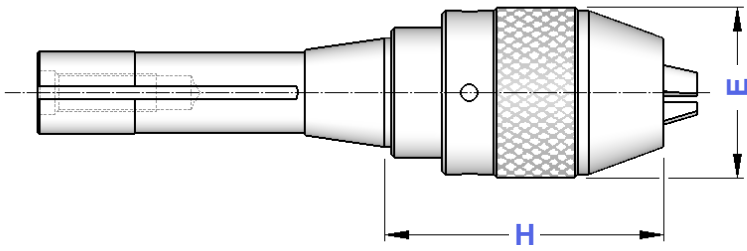
TIPO	Art.				
KIT R 8 - ER 32	7669	2973	3695	3670	0988: \varnothing 3 ÷ 20 (18 Pinze)

R8**MANDRINI AUTOSERRANTI INTEGRALI - ROTAZIONE DESTRA**

MONOLITHIC DRILL CHUCKS - RIGHT SPIN



TIPO	Art.	CAPACITA'	E	H	
R 8 - DC 13	3000	0 ÷ 13	50	81	2370



Precisione di rotazione: 0,05 mm

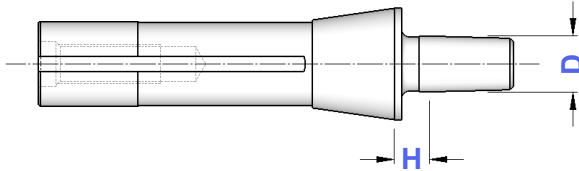
Runout accuracy: 0,05 mm

R8**ATTACCHI PER MANDRINI PORTAPUNTA - DIN 238**

SHANKS FOR DRILL CHUCKS DIN 238 TYPE

**DIN
238**

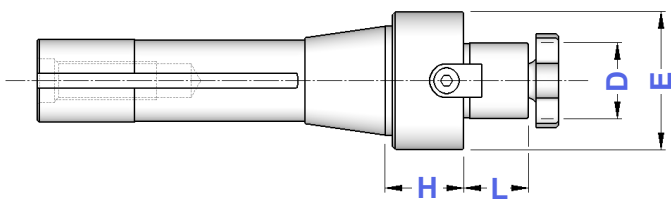
TIPO	Art.	D	H	
R 8 - B 16	1089	15,733	10	B16

**R8****PORTAFRESE FISSI**

DIN 6357 FACE MILL HOLDERS



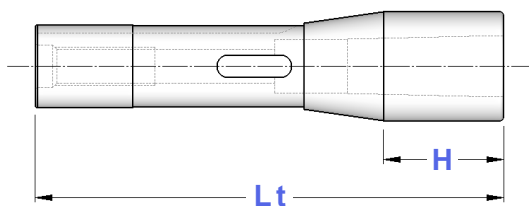
TIPO	Art.	D	H	L	E		
PORTAFRESA R8 - D. 16	2978	16	19	17	38	4985	4562
PORTAFRESA R8 - D. 22	2979	22	23	19	46	4986	4563
PORTAFRESA R8 - D. 27	2980	27	23	21	48	4987	4564
PORTAFRESA R8 - D. 32	2981	32	24	24	58	4988	4565

**R8****RIDUZIONI A CONO MORSE**

ADAPTERS TO MORSE TAPER

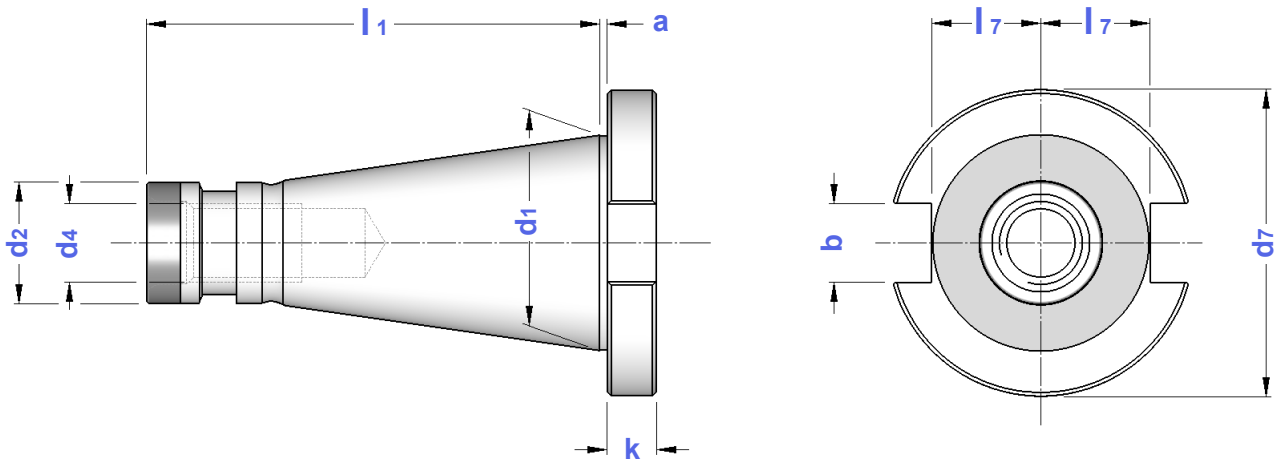
CM

TIPO	Art.	H	Lt	
RIDUZIONE R8 - CM 1 PUNTE	2975	22	124	1
RIDUZIONE R8 - CM 2 PUNTE	2976	35	137	2
RIDUZIONE R8 - CM 3 PUNTE	2977	48	150	3



CARATTERISTICHE TECNICHE CONI ISO DIN 2080

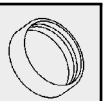
ISO DIN 2080 TAPERS STANDARD FEATURES



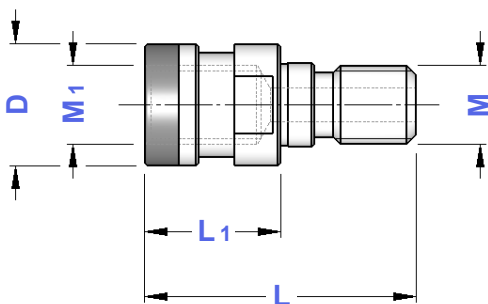
CONO	a	b	d1	d2	d4	d7	k	l1	l7	PRECISIONE
ISO 30 - DIN 2080	1,6	16,1	31,75	17,4	M 12	50,0	8	68,4	16,2	
ISO 40 - DIN 2080	1,6	16,1	44,45	25,3	M 16	63,0	10	93,4	22,5	
ISO 50 - DIN 2080	3,2	25,7	69,85	39,6	M 24	97,5	12	126,8	35,3	

CODOLI ADATTATORI - OTT SYSTEM

OTT SYSTEM - ADAPTER STUD BOLTS

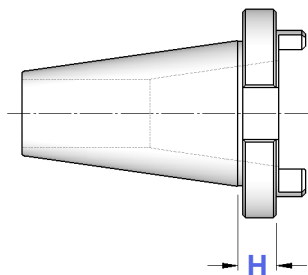


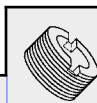
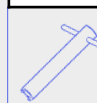
TIPO	Art.	M	M1	D	L1	
OTT M16/L 53 - TC 40	3487	M16	M16	25,3	25	7461
OTT M16/L 56 - BT 40	3466	M16	M16	25,3	28	7461
OTT M24/L 65 - CONO 50	0087	M24	M24	39,6	25	—

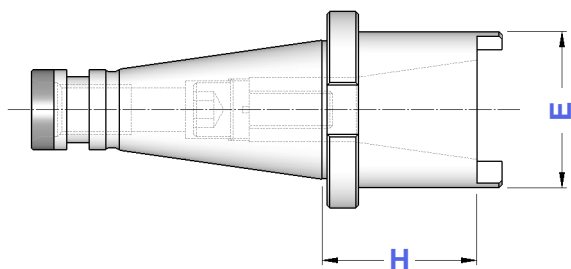


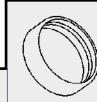
**DIN
2080****RIDUZIONI PASSANTI DA ISO A ISO**
PASSER-BY ISO TO ISO ADAPTERS

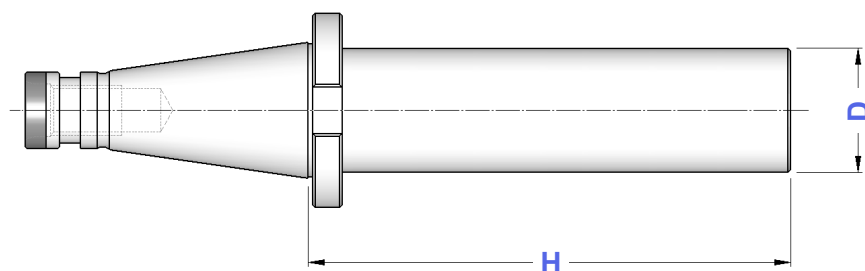
TIPO	Art.	H
ISO 40 - IP 30	8828	12
ISO 50 - IP 40	8829	16

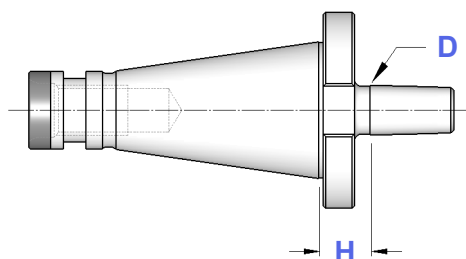
**DIN
2080****RIDUZIONI DA ISO A ISO/TC/BT**
ISO TO ISO/TC/BT ADAPTERS

TIPO	Art.	H	E		DIN 2080	BT DIN 69871	
ISO 40 - ISO 30/TC 30/BT 30	4235	50	50	7423	7410	0177	4570
ISO 50 - ISO 40/TC 40/BT 40	4237	63	68	7424	7411	0179	4571
ISO 50 - ISO 50/TC 50/BT 50	8536	100	100	7426	7417	0254	4780

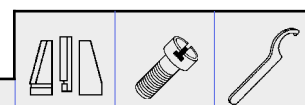
**DIN
2080****BARRE A STELO TENERO**
BLANK BARS

TIPO	Art.	
ISO 40 - D. 40/H 160	4374	7461
ISO 40 - D. 50/H 250	4377	7461
ISO 40 - D. 63/H 160	4378	7461
ISO 40 - D. 63/H 250	4379	7461
ISO 50 - D. 50/H 300	4383	7462
ISO 50 - D. 63/H 300	4385	7462
ISO 50 - D. 80/H 300	4387	7462

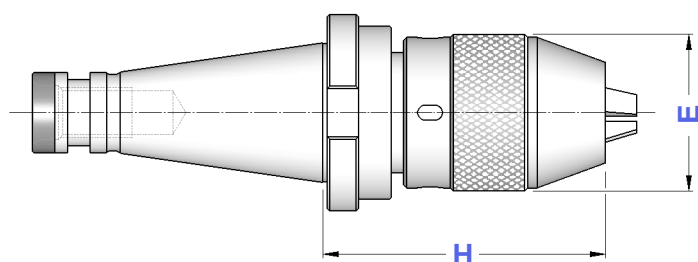


**DIN
2080****ATTACCHI PER MANDRINI PORTAPUNTA DIN 238**
SHANKS FOR DRILL CHUCKS DIN 238 TYPE

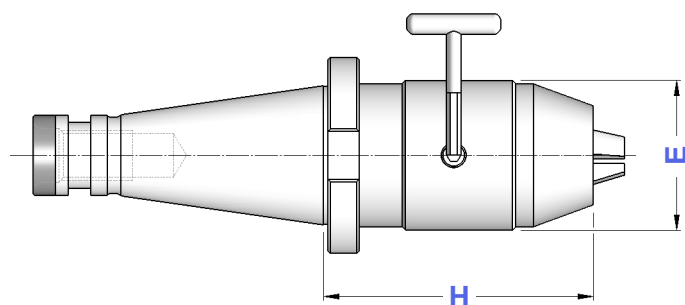
TIPO	Art.	D	H	
ISO 30 - B12	3858	12,065	15	—
ISO 30 - B16	3991	15,733	15	—
ISO 40 - B12	3859	12,065	17	7461
ISO 40 - B16	3860	15,733	17	7461
ISO 40 - B18	3861	17,780	17	7461
ISO 50 - B16	3992	15,733	20	7462
ISO 50 - B18	3993	17,780	20	7462

**DIN
2080****MANDRINI AUTOSERRANTI INTEGRALI**
ROTAZIONE DESTRA
MONOLITHIC DRILL CHUCKS - RIGHT SPIN

TIPO	Art.	CAPACITA'	E	H			
ISO 30 - DC 13	8578	1 ÷ 13	50	100	9016	9021	2370
ISO 40 - DC 13	4331	1 ÷ 13	50	95	9016	9021	2370
ISO 40 - DC 16	4332	3 ÷ 16	57	105	9017	9023	2371
ISO 50 - DC 13	4333	1 ÷ 13	50	80	9016	9021	2370
ISO 50 - DC 16	4334	3 ÷ 16	57	100	9017	9023	2371

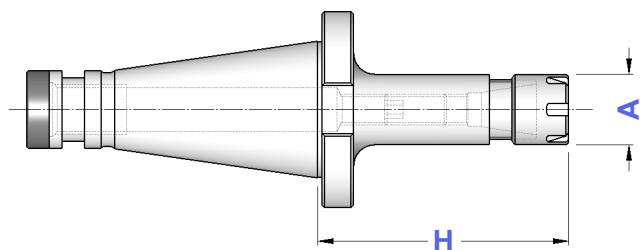
Precisione di rotazione: **0,05 mm**
Runout accuracy: **0,05 mm****DIN
2080****MANDRINI AUTOSERRANTI INTEGRALI**
ROTAZIONE DESTRA E SINISTRA
MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN

TIPO	Art.	CAPACITA'	E	H	
ISO 40 - DCU 13	8579	1 ÷ 13	50	90	2372
ISO 40 - DCU 16	8580	3 ÷ 16	57	100	
ISO 50 - DCU 13	8581	1 ÷ 13	50	87	2372
ISO 50 - DCU 16	8582	3 ÷ 16	57	100	

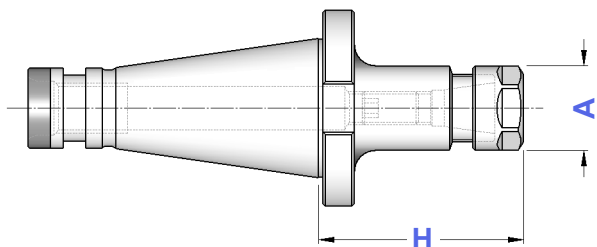
Precisione di rotazione: **0,05 mm**
Runout accuracy: **0,05 mm**

**DIN
2080****PORTAPINZE ER - GHIERA MINI**
ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

TIPO	Art.	H	A	CAPACITA'				
ISO 30 - ER16 GM	2957	70	22	1 ÷ 10	0183	1229	5719	0364
ISO 40 - ER16 GM	2959	80	22	1 ÷ 10	0186	1229	5719	0364
ISO 40 - ER20 GM	2960	90	28	1 ÷ 13	0188	1230	5720	0787
ISO 40 - ER25 GM	2961	100	35	1 ÷ 16	0190	1231	5721	0996

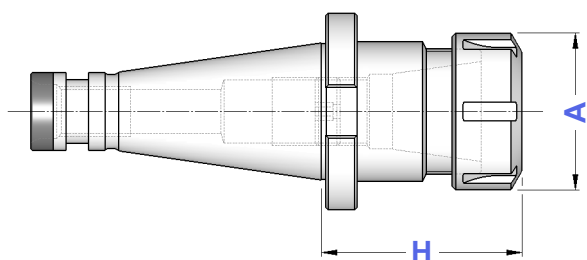
**DIN
2080****PORTAPINZE ER - GHIERA ESAGONALE**
ER - DIN 6499 COLLET CHUCKS WITH HEXAGONAL NUT

TIPO	Art.	A	CAPACITA'				
ISO 30 - ER16 GE/H 50	8332	28	1 ÷ 10	0183	1214	2906	0364
ISO 30 - ER20 GE/H 50	8333	34	1 ÷ 13	0183	1215	2907	0787
ISO 40 - ER16 GE/H 50	8334	28	1 ÷ 10	0186	1214	2906	0364
ISO 40 - ER16 GE/H100	8335						
ISO 40 - ER20 GE/H 50	8336	34	1 ÷ 13	0188	1215	2907	0787
ISO 40 - ER20 GE/H100	8337						





TIPO	Art.	A	CAPACITA'				
ISO 30 - ER 16/H 50	2944	32	1 ÷ 10	0183	4993	3698	0364
ISO 30 - ER 20/H 50	2945	35	1 ÷ 13	0183	4994	3699	0787
ISO 30 - ER 25/H 40	2927	42	1 ÷ 16	0190	4995	3669	0996
ISO 30 - ER 25/H 75	2946						
ISO 30 - ER 32/H 50	2928	50	2 ÷ 20	0191	4996	3670	0988
ISO 30 - ER 32/H 70	3986						
ISO 30 - ER 32/H 100	3988						
ISO 30 - ER 40/H 75	3543	63	3 ÷ 30	0191	4997	3671	0821
ISO 30 - ER 40/H 100	3990						
ISO 40 - ER 16/H 50	2949	32	1 ÷ 10	0186	4993	3698	0364
ISO 40 - ER 16/H 100	3941						
ISO 40 - ER 20/H 50	2950	35	1 ÷ 13	0188	4994	3699	0787
ISO 40 - ER 20/H 100	2796						
ISO 40 - ER 25/H 50	2941	42	1 ÷ 16	0190	4995	3669	0996
ISO 40 - ER 25/H 100	2685						
ISO 40 - ER 32/H 50	2929	50	2 ÷ 20	0191	4996	3670	0988
ISO 40 - ER 32/H 70	2951						
ISO 40 - ER 32/H 100	2464						
ISO 40 - ER 32/H 130	2827						
ISO 40 - ER 32/H 160	2952						
ISO 40 - ER 40/H 50	2930	63	3 ÷ 30	0195	4997	3671	0821
ISO 40 - ER 40/H 70	2462						
ISO 40 - ER 40/H 100	2992						
ISO 40 - ER 50/H 100	2953	78	6 ÷ 34	0195	4998	3668	4055
ISO 50 - ER 25/H 65	2830	42	1 ÷ 16	0190	4995	3669	0996
ISO 50 - ER 25/H 100	2831						
ISO 50 - ER 25/H 140	2885						
ISO 50 - ER 32/H 70	2954	50	2 ÷ 20	0191	4996	3670	0988
ISO 50 - ER 32/H 100	2955						
ISO 50 - ER 32/H 140	2832						
ISO 50 - ER 40/H 75	2931	63	3 ÷ 30	0195	4997	3671	0821
ISO 50 - ER 40/H 100	2458						
ISO 50 - ER 40/H 140	2833						
ISO 50 - ER 50/H 70	2932	78	6 ÷ 34	0195	4998	3668	4055



Dove trovare questi Articoli

Where to find those Items



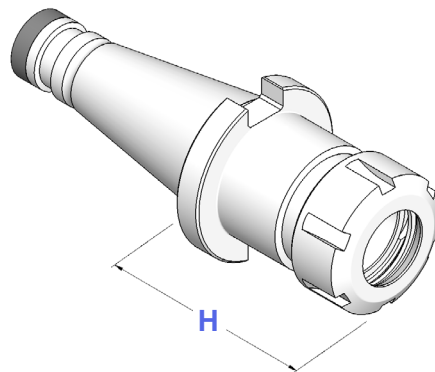
Pinze ER - da pag. 8
ER Collets - from page 8



Ghiere ER - da pag. 20
ER Nuts - from page 20

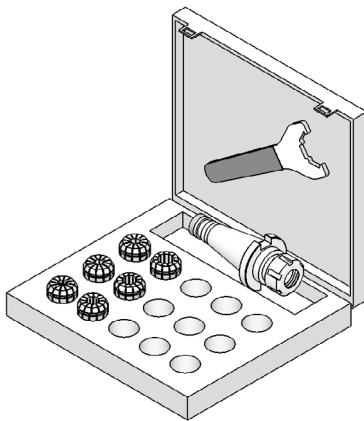


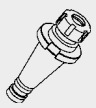



Chiavi ER - pag. 25
ER Wrenches - page 25



CASSETTE CON SERIE RIDOTTA DI PINZE ER, MANDRINO E CHIAVE

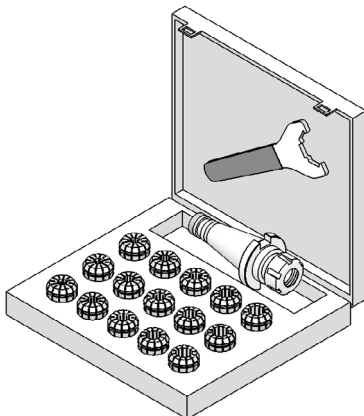
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS

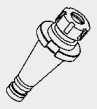





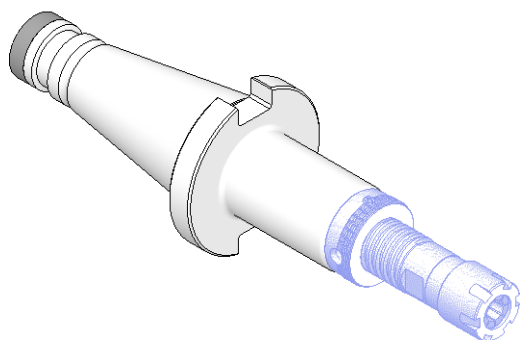
TIPO	Art.				
KIT Rid ISO 30/H 40 - ER 25	7516	2927	3695	3669	0996: $\varnothing 4-6-8-10-12-16$
KIT Rid ISO 30/H 50 - ER 32	7517	2928	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid ISO 40/H 50 - ER 25	7518	2941	3695	3669	0996: $\varnothing 4-6-8-10-12-16$
KIT Rid ISO 40/H 50 - ER 32	7519	2929	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid ISO 40/H 70 - ER 32	7520	2951	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid ISO 40/H 50 - ER 40	7521	2930	3695	3671	0821: $\varnothing 4-6-8-10-12-16-20-25$
KIT Rid ISO 50/H 70 - ER 32	7522	2954	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid ISO 50/H 75 - ER 40	7523	2931	3695	3671	0821: $\varnothing 4-6-8-10-12-16-20-25$

CASSETTE CON SERIE COMPLETA DI PINZE ER, MANDRINO E CHIAVE

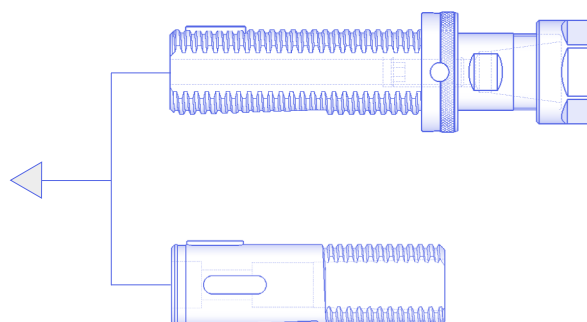
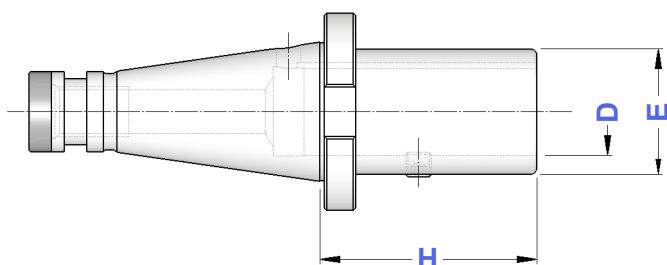
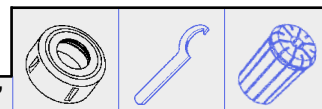
EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS



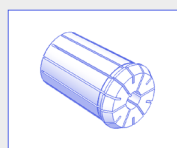
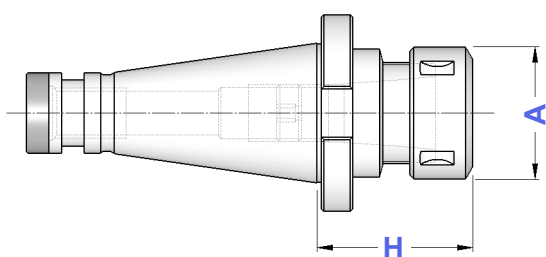
TIPO	Art.				
KIT ISO 30/H 40 - ER25	7500	2927	3695	3669	0996: $\varnothing 2 \div 16$ (15 Pinze)
KIT ISO 30/H 50 - ER32	7501	2928	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT ISO 40/H 50 - ER25	7502	2941	3695	3669	0996: $\varnothing 2 \div 16$ (15 Pinze)
KIT ISO 40/H 50 - ER32	7503	2929	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT ISO 40/H 70 - ER32	7504	2951	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT ISO 40/H 50 - ER40	7505	2930	3695	3671	0821: $\varnothing 4 \div 26$ (23 Pinze)
KIT ISO 50/H 70 - ER32	7506	2954	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT ISO 50/H 75 - ER40	7507	2931	3695	3671	0821: $\varnothing 4 \div 26$ (23 Pinze)

**DIN
2080****PORTA MANDRINI CON ATTACCO TRAPEZIO DIN 6327**
AUTOMOTIVES SHANK HOLDERS ACCORDING TO DIN 6327

TIPO	Art.	D	H	E	
ISO 40 - TR 28	4230	28	100	40	0021
ISO 40 - TR 36	4231	36	120	50	0021
ISO 50 - TR 28	4232	28	100	40	0021
ISO 50 - TR 36	4233	36	100	50	0021

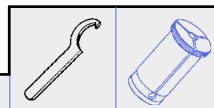
**Potete trovare il programma DIN 6327
da pagina 46 a pagina 49.***You can find DIN 6327 program
from page 46 to page 49.***DIN
2080****MANDRINI PER PINZE EOC DIN 6388**
DIN 6388 COLLET CHUCKS

TIPO	Art.	H	A	CAPACITA'			
ISO 40 - EOC 16	4170	55	43	2 ÷ 16	4067	2908	0768
ISO 40 - EOC 25	3966	70	60	2 ÷ 25	4068	2909	0769
ISO 40 - EOC 32	3967	80	72	3 ÷ 32	4069	2910	0770
ISO 50 - EOC 25	3968	70	60	2 ÷ 25	4068	2909	0769
ISO 50 - EOC 32	3969	80	72	3 ÷ 32	4069	2910	0770

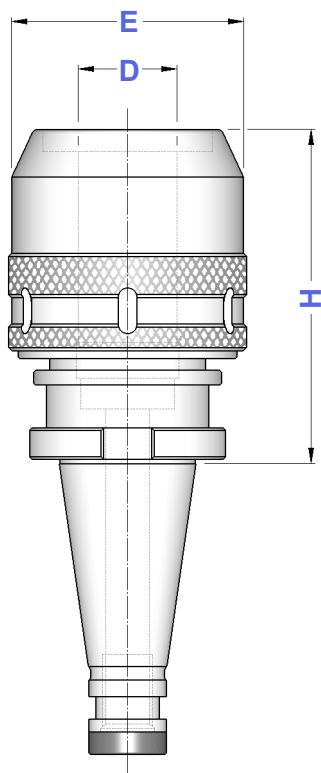
**Pinze, ghiera e chiavi
EOC - DIN 6388
si trovano da pagina 28.***Collets, nuts and wrenches
EOC - DIN 6388 type
you can find from page 28.*

**DIN
2080**

MANDRINI A FORTE SERRAGGIO
HIGH GRIP CHUCKS

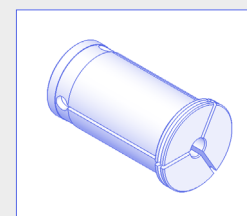


TIPO	Art.	H	D	CAPACITA'	E		
ISO 40 - PC 32	2903	78	32	3 ÷ 32	74,0	2910	0810
ISO 50 - PC 32	2904	85	32	3 ÷ 32	74,0	2910	0810



I Mandrini a Forte Serraggio vengono forniti completi dell'apposita chiave

High grip Chucks are supplied complete with suitable wrench







Pinze cilindriche di riduzione per Mandrini a Forte Serraggio

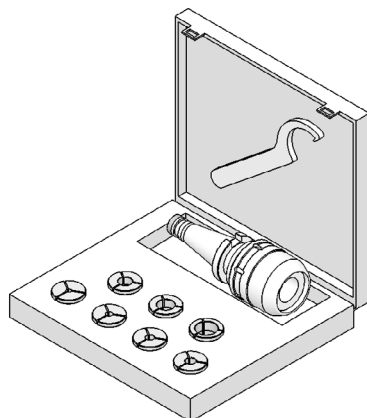
Pag. 31

Reduction cylindrical collets for High Grip Chucks on page 31

**CASSETTE CON MANDRINO
CHIAVE E PINZE**

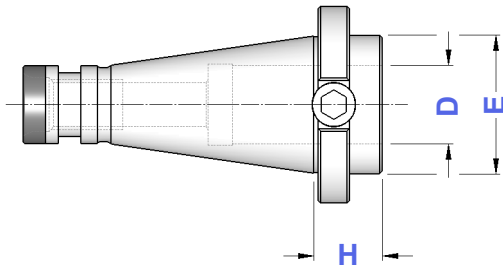
*EQUIPMENT BOXES WITH COLLET CHUCK
WRENCH AND COLLETS*

TIPO	Art.				
KIT ISO 40 - PC 32 / H 78	7541	2903	3695	2910	0810: ø 6 - 8 - 10 - 12 - 16 - 20 - 25
KIT ISO 50 - PC 32 / H 85	7542	2904	3695	2910	0810: ø 6 - 8 - 10 - 12 - 16 - 20 - 25



**DIN
2080**

PORTAFRESE WELDON TIPO EXTRACORTO
SHORT TYPE END MILL HOLDERS FOR DIN 1835-B SHANKS



TIPO	Art.	D	H	E	
ISO 40 - WE 16/H 22	3090	16	22	44	0068
ISO 40 - WE 20/H 22	3091	20	22	44	0070
ISO 40 - WE 25/H 22	3092	25	22	44	0073
ISO 40 - WE 32/H 40	3109	32	40	44	0074
ISO 50 - WE 16/H 20	3093	16	20	66	4974
ISO 50 - WE 20/H 20	3094	20	20	66	4975
ISO 50 - WE 25/H 20	3095	25	20	66	4975
ISO 50 - WE 32/H 20	3096	32	20	66	4975

**DIN
2080**

PORTAFRESE WELDON
END MILL HOLDERS FOR DIN 1835-B SHANKS

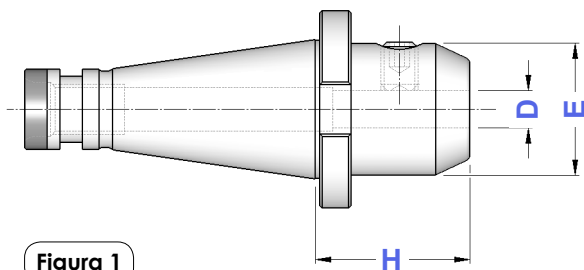


Figura 1

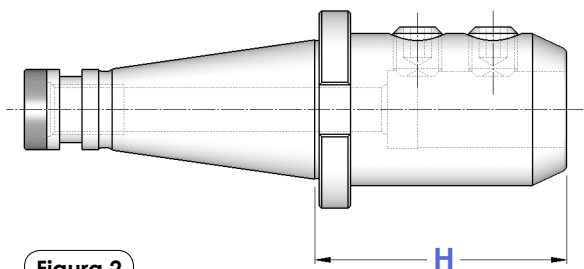


Figura 2

TIPO	Art.	D	H	E	Fig.	
ISO 30 - WE 6/H 40	4442	6	40	25	1	4970
ISO 30 - WE 8/H 40	4443	8	40	28	1	4971
ISO 30 - WE 10/H 40	4444	10	40	35	1	4972
ISO 30 - WE 12/H 40	4445	12	40	42	1	4973
ISO 30 - WE 16/H 50	4447	16	50	48	1	4974
ISO 30 - WE 20/H 63	4449	20	63	52	1	4975
ISO 30 - WE 25/H 75	4450	25	75	65	2	4976
ISO 40 - WE 6/H 50	3647	6	50	25	1	4970
ISO 40 - WE 8/H 50	3648	8	50	28	1	4971
ISO 40 - WE 10/H 50	3649	10	50	35	1	4972
ISO 40 - WE 12/H 50	3650	12	50	42	1	4973
ISO 40 - WE 14/H 50	3610	14	50	44	1	4973
ISO 40 - WE 16/H 63	3651	16	63	48	1	4974
ISO 40 - WE 18/H 63	3611	18	63	50	1	4974
ISO 40 - WE 20/H 63	3652	20	63	52	1	4975
ISO 40 - WE 25/H 90	3653	25	90	65	2	4976
ISO 40 - WE 32/H 90	3654	32	90	72	2	4977
ISO 40 - WE 40/H 90	3312	40	90	80	2	4977
ISO 50 - WE 6/H 50	3655	6	50	25	1	4970
ISO 50 - WE 8/H 50	3656	8	50	28	1	4971
ISO 50 - WE 10/H 63	3657	10	63	35	1	4972
ISO 50 - WE 12/H 63	3658	12	63	42	1	4973
ISO 50 - WE 14/H 63	3340	14	63	44	1	4973
ISO 50 - WE 16/H 63	3659	16	63	48	1	4974
ISO 50 - WE 18/H 63	3341	18	63	50	1	4974
ISO 50 - WE 20/H 63	3660	20	63	52	1	4975
ISO 50 - WE 25/H 80	3661	25	80	65	2	4976
ISO 50 - WE 32/H 85	3662	32	85	72	2	4977
ISO 50 - WE 40/H 95	3663	40	95	78	2	4977
ISO 50 - WE 50/H110	3664	50	110	97	2	4978



TIPO	Art.	D	H	E	Fig.	G1	G2
ISO 40 - WN 6/H 50	4458	6	50	25	1	0233	4970
ISO 40 - WN 8/H 50	4459	8	50	28	1	0235	4971
ISO 40 - WN 10/H 50	4460	10	50	35	1	0238	4972
ISO 40 - WN 12/H 50	4461	12	50	42	1	0240	4973
ISO 40 - WN 14/H 50	4462	14	50	44	1	0240	4973
ISO 40 - WN 16/H 63	4463	16	63	48	1	0245	4974
ISO 40 - WN 18/H 63	4464	18	63	50	1	0245	4974
ISO 40 - WN 20/H 63	4465	20	63	52	1	0245	4975
ISO 40 - WN 25/H 90	4466	25	90	65	2	0212	4976
ISO 40 - WN 32/H 90	4467	32	90	72	2	0212	4977
ISO 50 - WN 6/H 50	4468	6	50	25	1	0233	4970
ISO 50 - WN 8/H 50	4469	8	50	28	1	0235	4971
ISO 50 - WN 10/H 63	4470	10	63	35	1	0238	4972
ISO 50 - WN 12/H 63	4471	12	63	42	1	0240	4973
ISO 50 - WN 14/H 63	4472	14	63	44	1	0240	4973
ISO 50 - WN 16/H 63	4473	16	63	48	1	0245	4974
ISO 50 - WN 18/H 63	4474	18	63	50	1	0245	4974
ISO 50 - WN 20/H 63	4475	20	63	52	1	0245	4975
ISO 50 - WN 25/H 80	4476	25	80	65	2	0247	4976
ISO 50 - WN 32/H 85	4477	32	85	72	2	0247	4977
ISO 50 - WN 40/H 95	4478	40	95	78	2	0247	4977

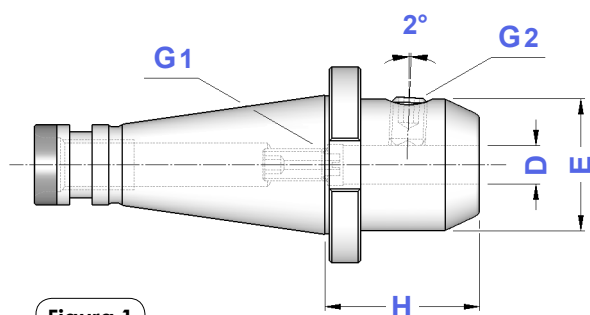


Figura 1

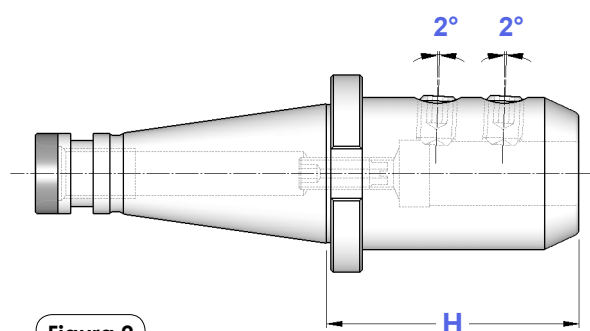
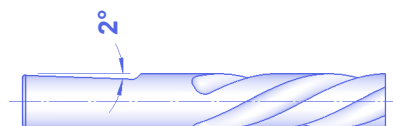


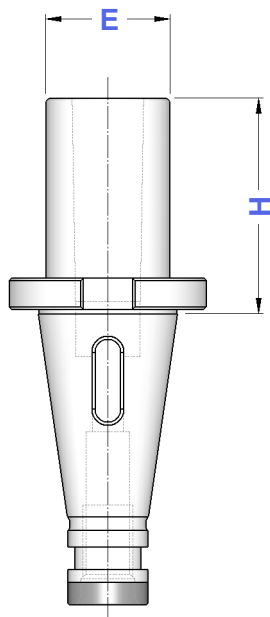
Figura 2



DIN 2080

RIDUZIONI A CONO MORSE PER PUNTE

MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

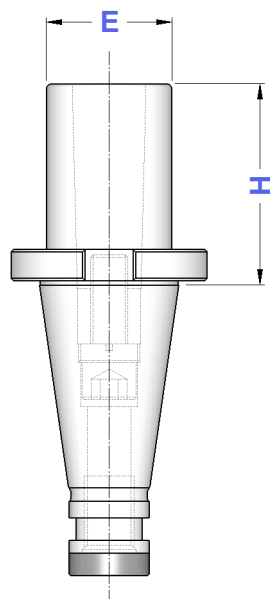
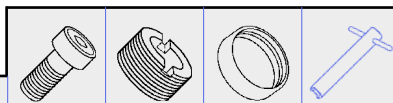


TIPO	Art.	CM	H	E	
ISO 30 - CM 1 PUNTE	8517	1	50	25	—
ISO 30 - CM 2 PUNTE	3873	2	50	32	—
ISO 30 - CM 3 PUNTE	3874	3	70	40	—
ISO 40 - CM 1 PUNTE	8518	1	50	25	7461
ISO 40 - CM 2 PUNTE	8520	2	50	32	7461
ISO 40 - CM 3 PUNTE	3614	3	65	40	7461
ISO 40 - CM 4 PUNTE	3615	4	95	48	7461
ISO 50 - CM 1 PUNTE	8523	1	45	25	7462
ISO 50 - CM 2 PUNTE	8525	2	60	32	7462
ISO 50 - CM 3 PUNTE	8527	3	65	40	7462
ISO 50 - CM 4 PUNTE	3619	4	65	48	7462
ISO 50 - CM 5 PUNTE	3620	5	105	63	7462

DIN 2080

RIDUZIONI A CONO MORSE PER FRESE

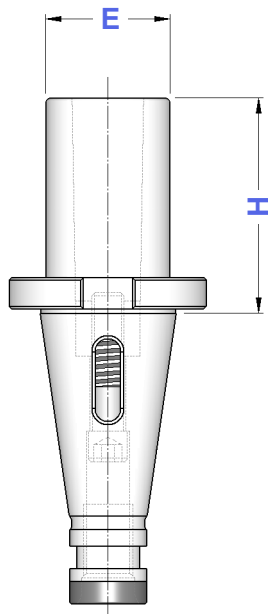
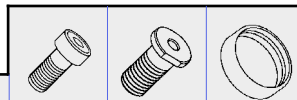
MT ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK






TIPO	Art.	CM	H	E				
ISO 30 - CM 2 FRESE	3876	2	50	32	7448	7422	—	4569
ISO 30 - CM 3 FRESE	3877	3	80	40	7402	7423	—	4570
ISO 40 - CM 2 FRESE	3622	2	50	32	7448	7422	7461	4569
ISO 40 - CM 3 FRESE	3623	3	65	40	7403	7423	7461	4570
ISO 40 - CM 4 FRESE	3624	4	95	48	7404	7424	7461	4571
ISO 50 - CM 2 FRESE	3626	2	60	32	7448	7422	7462	4569
ISO 50 - CM 3 FRESE	3627	3	65	40	7403	7423	7462	4570
ISO 50 - CM 4 FRESE	3628	4	65	48	7407	7424	7462	4571
ISO 50 - CM 5 FRESE	3629	5	120	63	7408	7425	7462	4572

**DIN
2080****RIDUZIONI A CONO MORSE PUNTE + FRESE
COMBinate**

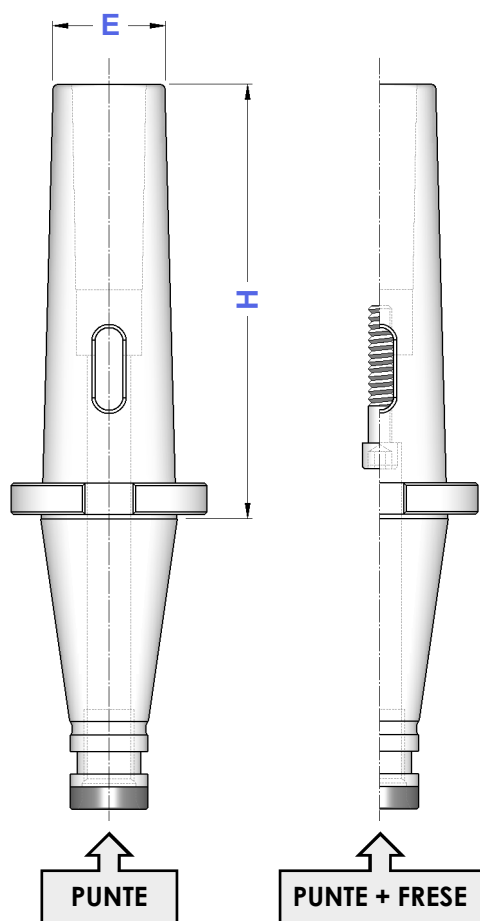
COMBI MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS






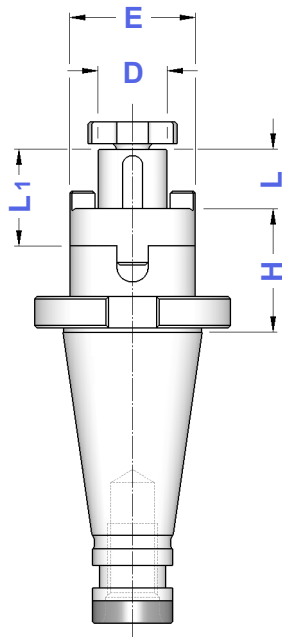
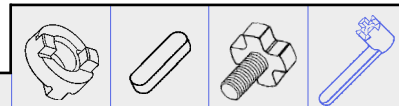
TIPO	Art.	CM	H	E			
ISO 30 - CM 1 P+F	3872	1	50	25	7400	—	—
ISO 30 - CM 2 P+F	8531	2	50	32	7400	0276	—
ISO 40 - CM 1 P+F	3612	1	50	25	7400	—	7461
ISO 40 - CM 2 P+F	3613	2	50	32	7401	—	7461
ISO 40 - CM 3 P+F	8532	3	65	40	7400	0130	7461
ISO 50 - CM 1 P+F	3616	1	45	25	7400	—	7462
ISO 50 - CM 2 P+F	3617	2	60	32	7405	—	7462
ISO 50 - CM 3 P+F	3618	3	65	40	7406	—	7462
ISO 50 - CM 4 P+F	8533	4	65	48	7409	—	7462
ISO 50 - CM 5 P+F	8534	5	105	63	7406	0131	7462

**DIN
2080****RIDUZIONI A CONO MORSE PER PUNTE E PUNTE + FRESE
TIPO PROLUNGATO**

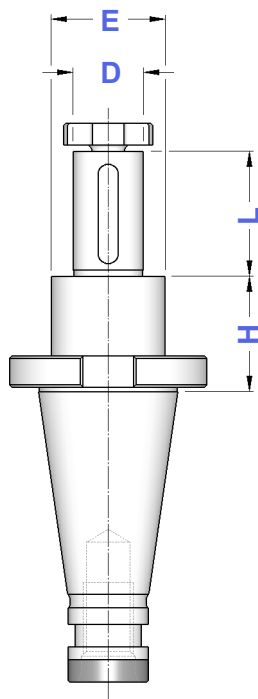
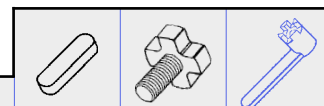
EXTENDED MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS



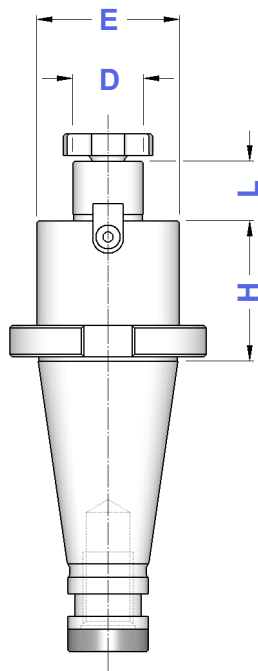
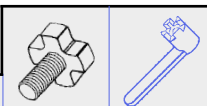
TIPO	PUNTE + FRESE		CM	H	E			
	Art.	Art.						
ISO 40 - CM 1	8519	3544	1	115	18	7400	—	7461
ISO 40 - CM 2	8521	3545	2	125	25	7401	—	7461
ISO 40 - CM 3	8522	3546	3	140	33	7400	0130	7461
ISO 40 - CM 4	3548	—	4	150	40	—	—	7461
ISO 50 - CM 1	8524	3785	1	120	18	0035	—	7462
ISO 50 - CM 2	8526	3786	2	140	25	0038	—	7462
ISO 50 - CM 3	8528	3787	3	150	33	0040	—	7462
ISO 50 - CM 4	8529	3788	4	180	40	0042	—	7462
ISO 50 - CM 5	8530	3789	5	220	55	0055	0131	7462

**DIN
2080****PORTAFRESE COMBINATI**
DIN 6358 SHELL END MILL HOLDERS

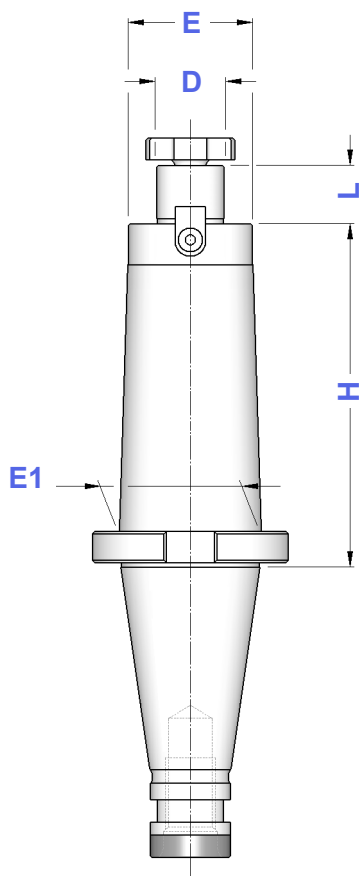
TIPO	Art.	D	L1	L	E				
ISO 30-D.16 C/H 35	3878	16	27	17	32	4090	0115	4985	4562
ISO 30-D.22 C/H 35	3879	22	31	19	40	4091	0116	4986	4563
ISO 30-D.27 C/H 35	3880	27	33	21	48	4092	0122	4987	4564
ISO 30-D.32 C/H 50	3881	32	38	24	58	4093	0125	4988	4565
ISO 40-D.16 C/H 52	3817	16	27	17	32	4090	0115	4985	4562
ISO 40-D.16 C/H 90	4189								
ISO 40-D.22 C/H 52	3818	22	31	19	40	4091	0116	4986	4563
ISO 40-D.22 C/H 90	4190								
ISO 40-D.27 C/H 52	3819	27	33	21	48	4092	0122	4987	4564
ISO 40-D.27 C/H 90	4191								
ISO 40-D.32 C/H 52	3820	32	38	24	58	4093	0125	4988	4565
ISO 40-D.32 C/H 100	4192								
ISO 40-D.40 C/H 52	3821	40	41	27	70	4094	0133	4989	4566
ISO 50-D.16 C/H 55	3822	16	27	17	32	4090	0115	4985	4562
ISO 50-D.16 C/H 100	4194								
ISO 50-D.22 C/H 55	3823	22	31	19	40	4091	0116	4986	4563
ISO 50-D.22 C/H 100	4195								
ISO 50-D.27 C/H 55	3824	27	33	21	48	4092	0122	4987	4564
ISO 50-D.27 C/H 100	4196								
ISO 50-D.32 C/H 55	3825	32	38	24	58	4093	0125	4988	4565
ISO 50-D.32 C/H 100	4197								
ISO 50-D.40 C/H 55	3826	40	41	27	70	4094	0133	4989	4566
ISO 50-D.40 C/H 100	4198								
ISO 50-D.50 C/H 55	3827	50	46	30	90	4095	0137	4990	4567

**DIN
2080****PORTAFRESE CON CHIAVETTA DI TRASCINAMENTO**
MILLING CUTTER HOLDERS WITH FEATHER KEY

TIPO	Art.	D	H	L	E			
ISO 30 - D.16 CHT	0134	16	35	30	28	0147	4985	4562
ISO 30 - D.22 CHT	0135	22	35	40	36	0148	4986	4563
ISO 30 - D.27 CHT	0136	27	35	60	43	0149	4987	4564
ISO 40 - D.16 CHT	4205	16	37	30	28	0147	4985	4562
ISO 40 - D.22 CHT	4207	22	37	40	36	0148	4986	4563
ISO 40 - D.27 CHT	4209	27	37	60	43	0149	4987	4564
ISO 40 - D.32 CHT	4211	32	37	60	48	0150	4988	4565
ISO 40 - D.40 CHT	4193	40	37	60	56	0151	4989	4566
ISO 50 - D.22 CHT	4216	22	40	40	36	0148	4986	4563
ISO 50 - D.27 CHT	4218	27	40	60	43	0149	4987	4564
ISO 50 - D.32 CHT	4220	32	40	60	48	0150	4988	4565
ISO 50 - D.40 CHT	4222	40	40	60	56	0151	4989	4566
ISO 50 - D.50 CHT	4214	50	40	60	70	0152	4990	4567



TIPO	Art.	D	L	E	E1		
ISO 30 - D.13 FISSO / H 35	5498	13	12	28	28	0482	—
ISO 30 - D.16 FISSO / H 35	4200	16	17	38	38	4985	4562
ISO 30 - D.22 FISSO / H 35	4201	22	19	48	48	4986	4563
ISO 30 - D.27 FISSO / H 35	4202	27	21	58	58	4987	4564
ISO 40 - D.13 FISSO / H 45	5499	13	12	28	28	0482	—
ISO 40 - D.16 FISSO / H 45	5500	16	17	38	38	4985	4562
ISO 40 - D.16 FISSO / H 120	5501			32	39		
ISO 40 - D.22 FISSO / H 45	5502	22	19	48	48	4986	4563
ISO 40 - D.22 FISSO / H 120	5503			40	49		
ISO 40 - D.27 FISSO / H 45	5504	27	21	58	58	4987	4564
ISO 40 - D.27 FISSO / H 120	5505			48	60		
ISO 40 - D.32 FISSO / H 50	5506	32	24	78	78	4988	4565
ISO 40 - D.32 FISSO / H 120	5507			58	62		
ISO 40 - D.40 FISSO / H 55	5508	40	27	88	88	4989	4566
ISO 50 - D.16 FISSO / H 45	5509	16	17	38	38	4985	4562
ISO 50 - D.16 FISSO / H 150	5510			32	39		
ISO 50 - D.22 FISSO / H 45	5511	22	19	48	48	4986	4563
ISO 50 - D.22 FISSO / H 150	5512			40	49		
ISO 50 - D.27 FISSO / H 45	5513	27	21	58	58	4987	4564
ISO 50 - D.27 FISSO / H 150	5514			48	75		
ISO 50 - D.32 FISSO / H 50	5515	32	24	78	78	4988	4565
ISO 50 - D.32 FISSO / H 150	5516			58	80		
ISO 50 - D.40 FISSO / H 50	5517	40	27	88	88	4989	4566
ISO 50 - D.40 FISSO / H 150	5518			70	90		



Dove trovare questi Articoli

Where to find those Items

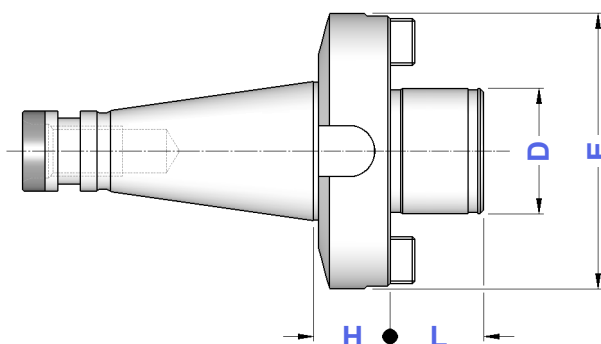
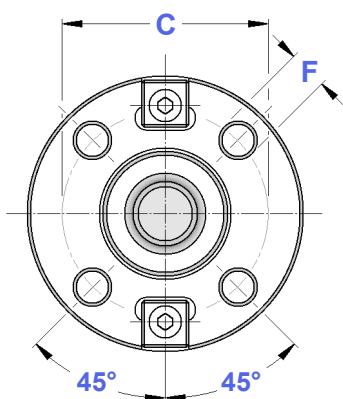
	Viti testa a croce - pag. 194 Cross head screws - page 194
	Chiavi per testa a croce - pag. 194 Wrenches for cross head - page 194
	Tasselli - pag. 195 Dowels - page 195
	Viti di bloccaggio tassello - pag. 198 Dowel screws - page 198

**DIN
2080**

ATTACCHI PER FRESE AD INSERTI
FACE MILL HOLDERS FOR FACE MILLING CUTTERS



TIPO	Art.	D	H	L	E	C	F	
ISO 40 - D. 40 FM	4223	40	20	30	89	66,7	M12	7461
ISO 40 - D. 60 FM	4225	60	30	40	129	101,6	M16	7461
ISO 50 - D. 40 FM	4226	40	30	30	89	66,7	M12	7462
ISO 50 - D. 60 FM	4228	60	30	40	129	101,6	M16	7462

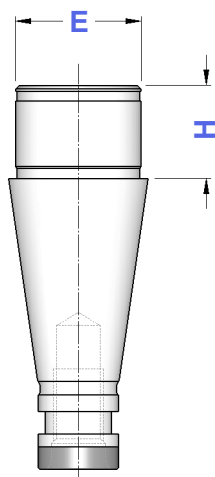


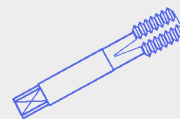
**DIN
2080**

CENTRATORI PER FRESE AD INSERTI
CENTERINGS FOR MILLING CUTTERS

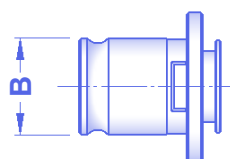
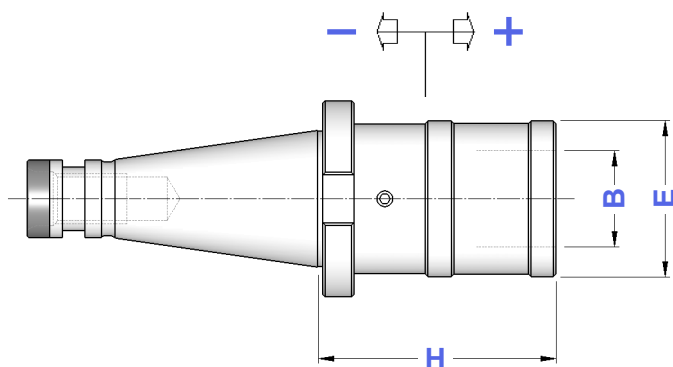
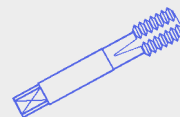


TIPO	Art.	H	E	
ISO 40 - D. 40 CF	4012	29	40	7461
ISO 50 - D. 60 CF	4025	39	60	7462

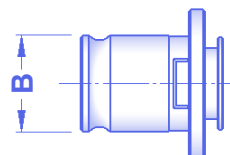
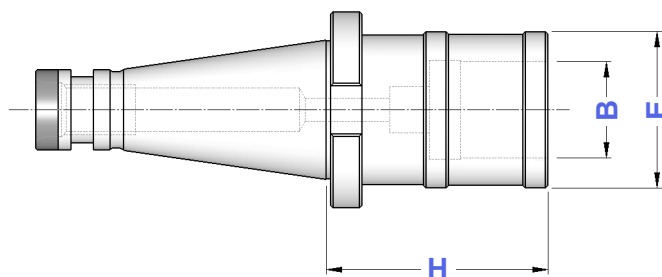


**DIN
2080****MASCHIATORI A CAMBIO RAPIDO CON
DOPPIA COMPENSAZIONE**
DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS

TIPO	Art.	H	E	B	COMPENSAZIONE	
ISO 30 - B. 1	3536	58	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
ISO 30 - B. 2	3537	85	53	31	- 15,0 + 15,0	M 6 ÷ M 20 (*M30)
ISO 40 - B. 1	3538	53	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
ISO 40 - B. 2	3539	77	55	31	- 15,0 + 15,0	M 6 ÷ M 20 (*M30)
ISO 40 - B. 3	3540	142	79	48	- 20,0 + 20,0	M 14 ÷ M 33 (*M48)
ISO 50 - B. 1	4199	57	38	19	- 9,0 + 9,0	M 3 ÷ M 12 (*M16)
ISO 50 - B. 2	3541	79	55	31	- 15,0 + 15,0	M 6 ÷ M 20 (*M30)
ISO 50 - B. 3	3542	125	79	48	- 20,0 + 20,0	M 14 ÷ M 33 (*M48)

* Bussole con grani
Adapters with screwsBussole a maschiare
Tap Adapters
Pag. 172 - 175**DIN
2080****MASCHIATORI A CAMBIO RAPIDO
SENZA COMPENSAZIONE**
QUICK CHANGE TAP HOLDERS WITHOUT COMPENSATION

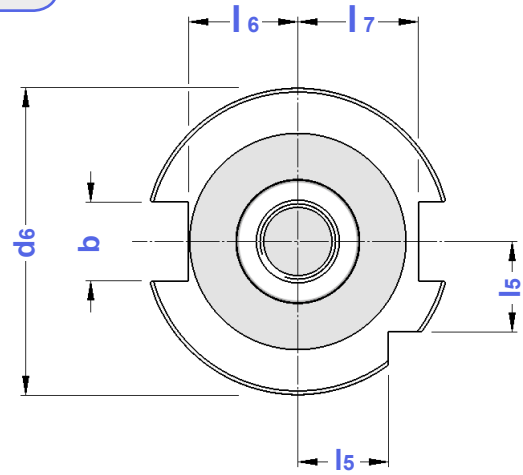
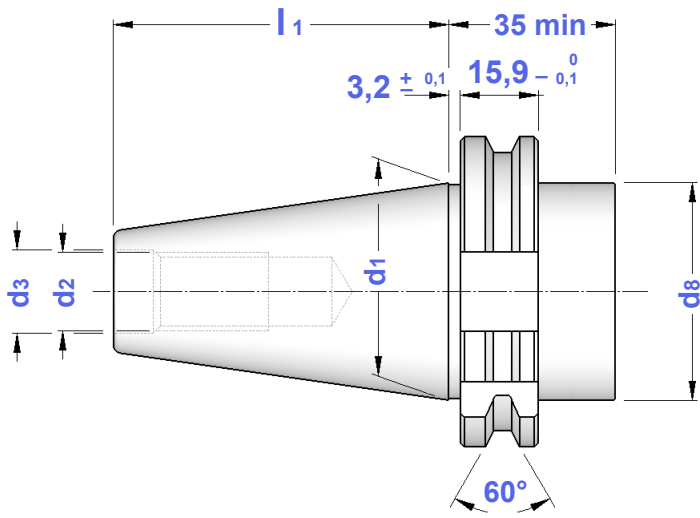
TIPO	Art.	H	E	B	
ISO 30 - B. 1 FISSO	4941	59	33	19	M 3 ÷ M 12 (*M16)
ISO 30 - B. 2 FISSO	4942	84	50	31	M 6 ÷ M 20 (*M30)
ISO 40 - B. 1 FISSO	4943	52	33	19	M 3 ÷ M 12 (*M16)
ISO 40 - B. 2 FISSO	4944	74	50	31	M 6 ÷ M 20 (*M30)
ISO 50 - B. 1 FISSO	5108	55	33	19	M 3 ÷ M 12 (*M16)
ISO 50 - B. 2 FISSO	5109	78	50	31	M 6 ÷ M 20 (*M30)

* Bussole con grani
Adapters with screwsBussole a maschiare
Tap Adapters
Pag. 172 - 175I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

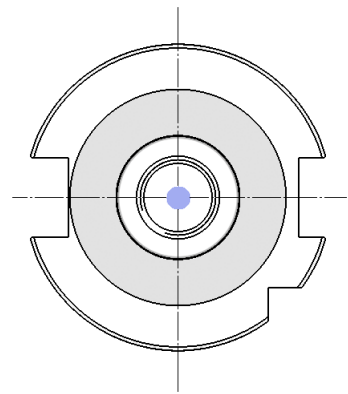
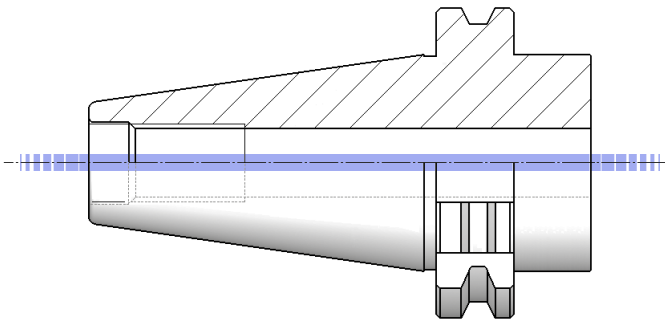
CARATTERISTICHE TECNICHE CONI DIN 69871

DIN 69871 TAPER STANDARD FEATURES

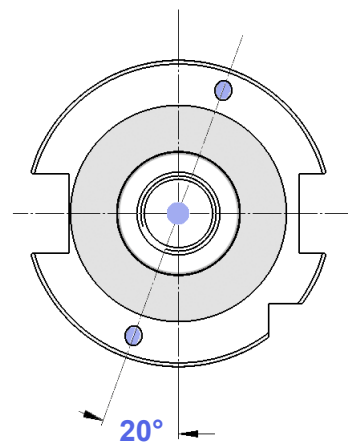
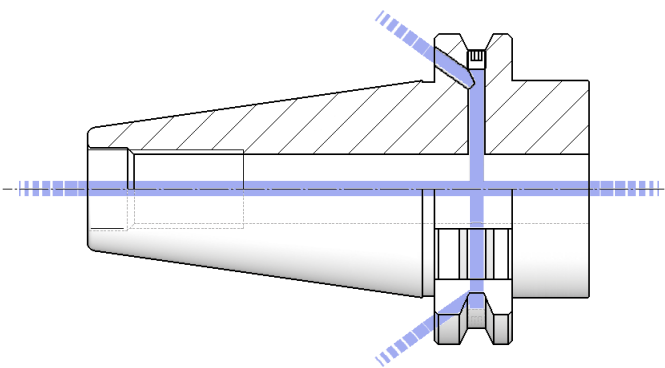
**FORMA
A**



**FORMA
AD**

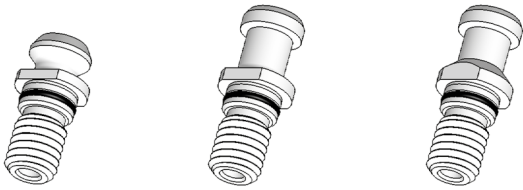


**FORMA
AD+B**



CONO	b	d1	d2	d3	d6	d8	l1	l5	l6	l7	PRECISIONE
TC30 - DIN 69871/A	16,1	31,75	M 12	13	50,00	45	47,80	15,0	16,4	19,0	
TC40 - DIN 69871/A	16,1	44,45	M 16	17	63,55	50	68,40	18,5	22,8	25,0	
TC45 - DIN 69871/A	19,3	57,15	M 20	21	82,55	63	82,70	24,0	29,1	31,3	
TC50 - DIN 69871/A	25,7	69,85	M 24	25	97,50	80	101,75	30,0	35,5	37,7	

CODOLI DI AGGANCIO PULL STUD BOLTS



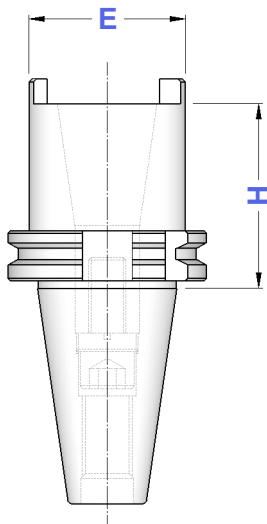
Codoli di aggancio da pag. 176 a pag. 185
del Catalogo Generale





Pull stud bolts on General Catalogue
from page 176 to page 185

DIN 69871

RIDUZIONI DA TC A ISO/TC/BT TC TO ISO/TC/BT ADAPTERS

FORMA A

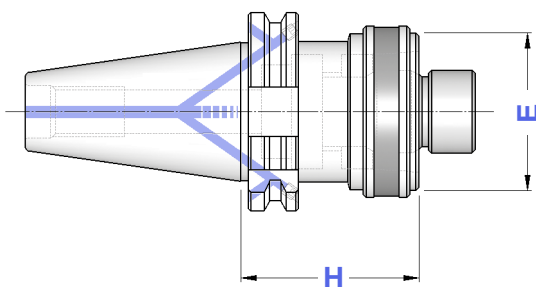


TIPO	FORMA A	H	E				
	Art.						
TC 40 - ISO 30/TC 30/BT 30	4203	60	50	7423	7410	0177	4570
TC 40 - ISO 40/TC 40/BT 40	8670	100	68	7424	7411	0179	4571
TC 50 - ISO 40/TC 40/BT 40	4257	70	68	7424	7411	0179	4571
TC 50 - ISO 50/TC 50/BT 50	8671	120	100	7426	7417	0254	4780

DIN 69871

RIDUZIONI DA TC AD HSK A+C TC TO HSK A+C ADAPTERS

FORMA B (AD+B)



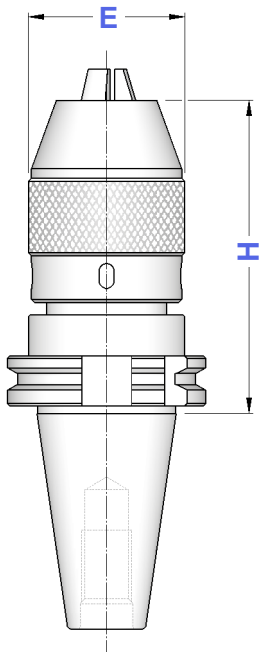
TIPO	FORMA B	H	E
	Art.		
TC 40 - HSK 50 A+C	8688	60	50
TC 40 - HSK 63 A+C	8689	80	63
TC 50 - HSK 63 A+C	8692	60	63

DIN 69871

MANDRINI AUTOSERRANTI INTEGRALI ROTAZIONE DESTRA MONOLITHIC DRILL CHUCKS - RIGHT SPIN

FORMA A

Balanced G 6,3
12.000 rpm



FORMA
A

TIPO	Art.	CAPACITA'	E	H			
TC 30 - DC 13	8583	1 ÷ 13	50	110	9016	9021	2370
TC 40 - DC 13	4398	1 ÷ 13	50	100	9016	9021	2370
TC 40 - DC 16	4399	3 ÷ 16	57	115	9017	9023	2371
TC 50 - DC 13	4402	1 ÷ 13	50	100	9016	9021	2370
TC 50 - DC 16	4403	3 ÷ 16	57	105	9017	9023	2371

Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

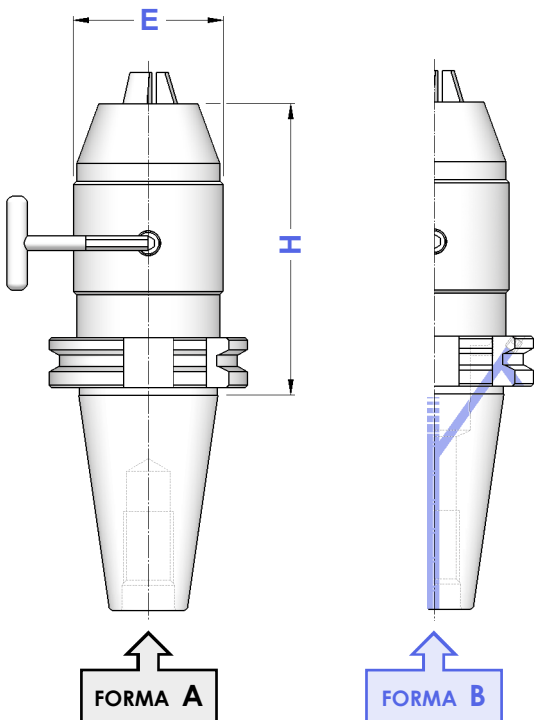
DIN 69871

MANDRINI AUTOSERRANTI INTEGRALI ROTAZIONE DESTRA E SINISTRA MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN

FORMA A

FORMA B (AD+B)

Balanced G 6,3
12.000 rpm



FORMA
A FORMA
B

TIPO	Art.	Art.	CAPACITA'	E	H	
TC 30 - DCU 13	8584	—	1 ÷ 13	50	120	2372
TC 40 - DCU 13	8585	8589	1 ÷ 13	50	90	2372
TC 40 - DCU 16	8586	8590	3 ÷ 16	50	95	
TC 50 - DCU 13	8587	8591	1 ÷ 13	50	90	2372
TC 50 - DCU 16	8588	8592	3 ÷ 16	50	95	

Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

DIN 69871

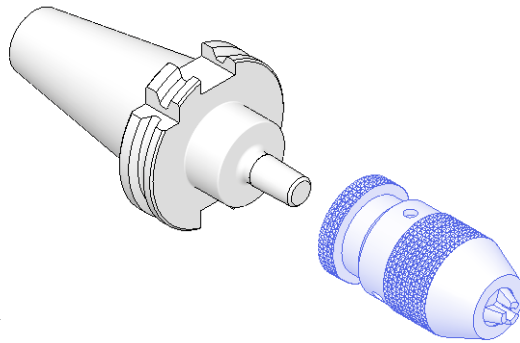
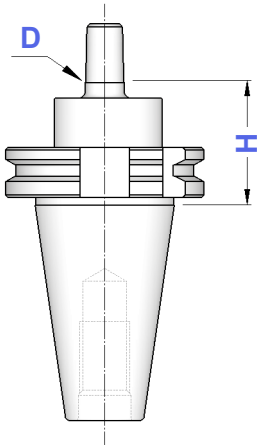
ATTACCHI PER MANDRINI PORTAPUNTA DIN 238 SHANKS FOR DRILL CHUCKS DIN 238 TYPE

FORMA A

Balanced G 6,3
8.000 rpm

FORMA A

TIPO	Art.	D	H
TC 30 - B 12	3867	12,065	40
TC 30 - B 16	3868	15,733	40
TC 40 - B 12	3869	12,065	40
TC 40 - B 16	3870	15,733	40
TC 40 - B 18	3871	17,780	40
TC 45 - B 16	3958	15,733	40
TC 50 - B 16	3998	15,733	40
TC 50 - B 18	3999	17,780	40





I Mandrini Autoserranti si trovano a pagina 69.
Keyless Drill Chucks you can find at page 69.





DIN 69871

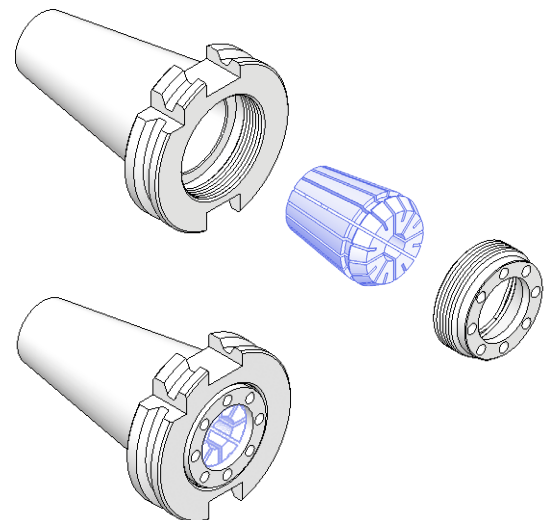
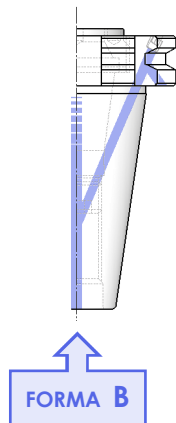
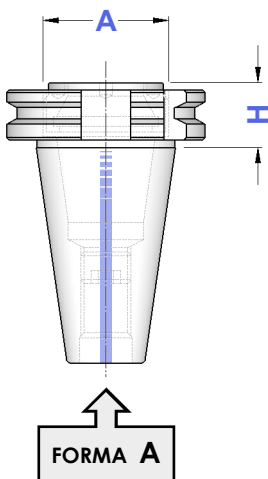
PORTAPINZA ER EXTRACORTI ER - DIN 6499 COLLET CHUCKS WITH INSIDE NUT

FORMA A (AD)

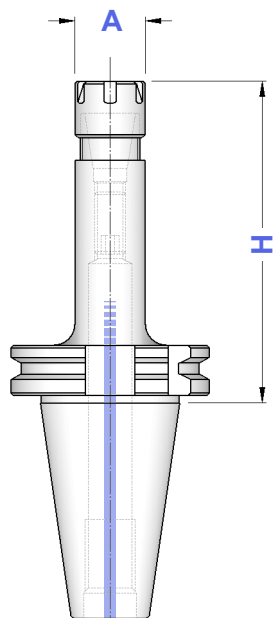
FORMA B (AD+B)

Balanced G 6,3
12.000 rpm

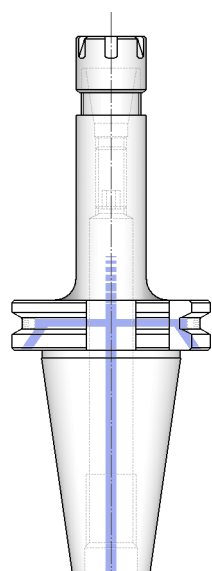
TIPO	FORMA A	FORMA B	H	A	CAPACITA'				
	Art.	Art.							
TC 40 - ER25 GA	8038	8039	21	M 32 x1,5	1 ÷ 16	0073	2870	3172	0996
TC 40 - ER32 GA	3370	—	21	M 40 x1,5	2 ÷ 20	0073	2871	3173	0988
TC 50 - ER32 GA	3371	8040	21	M 40 x1,5	2 ÷ 20	0191	2871	3173	0988



Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm



FORMA A



FORMA B

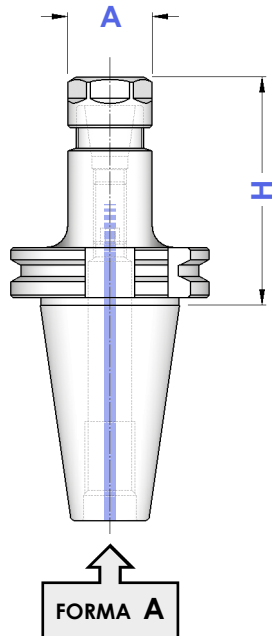
TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
TC 30 - ER 11 GM / H 80	4072	---	16	1 ÷ 7	0181	0432	5718	5573
TC 30 - ER 16 GM / H 80	3001	---	22	1 ÷ 10	0183	1229	5719	0364
TC 30 - ER 16 GM / H120	3432	---						
TC 40 - ER 11 GM / H 70	4073	4720	16	1 ÷ 7	0181	0432	5718	5573
TC 40 - ER 11 GM / H100	4020	4721						
TC 40 - ER 11 GM / H130	4057	4722						
TC 40 - ER 11 GM / H160	3416	4723						
TC 40 - ER 16 GM / H 70	3417	4724	22	1 ÷ 10	0186	1229	5719	0364
TC 40 - ER 16 GM / H100	4074	4748						
TC 40 - ER 16 GM / H130	3433	4749						
TC 40 - ER 16 GM / H160	4014	4021						
TC 40 - ER 16 GM / H200	3418	4026						
TC 40 - ER 20 GM / H 70	3005	4000						
TC 40 - ER 20 GM / H100	4015	4022						
TC 40 - ER 20 GM / H130	3434	4750						
TC 40 - ER 20 GM / H160	4016	4691						
TC 40 - ER 20 GM / H200	4017	4729						
TC 40 - ER 25 GM / H 70	3007	4001	35	1 ÷ 16	0190	1231	5721	0996
TC 40 - ER 25 GM / H100	4075	4751						
TC 40 - ER 25 GM / H130	3435	4730						
TC 40 - ER 25 GM / H160	3436	4752						
TC 40 - ER 25 GM / H200	3437	4753						
TC 50 - ER 16 GM / H100	3008	4046						
TC 50 - ER 16 GM / H130	3440	4756						
TC 50 - ER 16 GM / H160	4018	4693						
TC 50 - ER 16 GM / H200	4019	4757						
TC 50 - ER 20 GM / H100	3010	4047	28	1 ÷ 13	0188	1230	5720	0787
TC 50 - ER 20 GM / H130	3441	4758						
TC 50 - ER 20 GM / H160	3419	4760						
TC 50 - ER 20 GM / H200	3012	4070						
TC 50 - ER 25 GM / H100	3016	4071	35	1 ÷ 16	0190	1231	5721	0996
TC 50 - ER 25 GM / H130	3024	4483						
TC 50 - ER 25 GM / H160	3420	4759						
TC 50 - ER 25 GM / H200	3025	4484						

Dove trovare questi Articoli

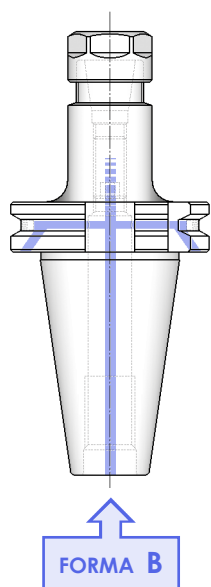
Where to find those Items

	Pinze ER - da pag. 8 ER Collets - from page 8
	Ghiere ER - pag. 20 ER Nuts - page 20
	Chiavi ER - pag. 25 ER Wrenches - page 25
	Grani di presettaggio da pag. 197 Presetting screws from page 197

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm



TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
TC 30 - ER 16 GE / H 55 TC 30 - ER 16 GE / H 100	8048 8049	---	28	1 ÷ 10	0183	1214	2906	0364
TC 30 - ER 20 GE / H 55 TC 30 - ER 20 GE / H 100	8050 8051	---	34	1 ÷ 13	0183	1215	2907	0787
TC 40 - ER 11 GE / H 70 TC 40 - ER 11 GE / H 100 TC 40 - ER 11 GE / H 130 TC 40 - ER 11 GE / H 160	3336 3337 3338 3339	4725 4726 4727 4728	19	1 ÷ 7	0181	1157	2905	5573
TC 40 - ER 16 GE / H 70 TC 40 - ER 16 GE / H 100 TC 40 - ER 16 GE / H 130 TC 40 - ER 16 GE / H 160 TC 40 - ER 16 GE / H 200	8052 8053 8054 8055 8056	8068 8069 8070 8071 8072	28	1 ÷ 10	0186	1214	2906	0364
TC 40 - ER 20 GE / H 70 TC 40 - ER 20 GE / H 100 TC 40 - ER 20 GE / H 130 TC 40 - ER 20 GE / H 160 TC 40 - ER 20 GE / H 200	8057 8058 8059 8060 8061	8073 8074 8075 8076 8077	34	1 ÷ 13	0188	1215	2907	0787
TC 50 - ER 16 GE / H 100 TC 50 - ER 16 GE / H 160 TC 50 - ER 16 GE / H 200	8062 8063 8064	8078 8079 8080	28	1 ÷ 10	0186	1214	2906	0364
TC 50 - ER 20 GE / H 100 TC 50 - ER 20 GE / H 160 TC 50 - ER 20 GE / H 200	8065 8066 8067	8081 8082 8083	34	1 ÷ 13	0188	1215	2907	0787

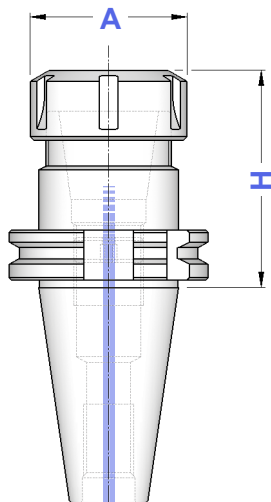


Dove trovare questi Articoli

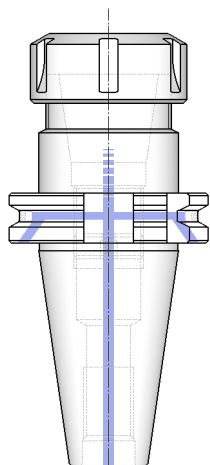
Where to find those Items

	Pinze ER - da pag. 8 ER Collets - from page 8
	Ghiere ER - pag. 20 ER Nuts - page 20
	Chiavi ER - pag. 25 ER Wrenches - page 25
	Grani di presettaggio da pag. 197 Presetting screws from page 197

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm







FORMA A



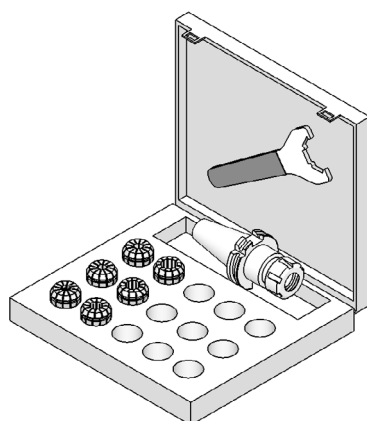
FORMA B

TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
TC 30 - ER 16/H 55 TC 30 - ER 16/H 100	3442 3373	---	32	1 ÷ 10	0183	4993	3698	0364
TC 30 - ER 20/H 55 TC 30 - ER 20/H 100	0138 3374	---	35	1 ÷ 13	0183	4994	3699	0787
TC 30 - ER 25/H 55 TC 30 - ER 25/H 100	3342 3375	---	42	1 ÷ 16	0190	4995	3669	0996
TC 30 - ER 32/H 60 TC 30 - ER 32/H 100	3343 3376	---	50	2 ÷ 20	0190	4996	3670	0988
TC 40 - ER 16/H 70 TC 40 - ER 16/H 100 TC 40 - ER 16/H 130 TC 40 - ER 16/H 160 TC 40 - ER 16/H 200	3443 3444 3098 3445 3446	4700 4701 4754 4702 4755	32	1 ÷ 10	0186	4993	3698	0364
TC 40 - ER 20/H 70 TC 40 - ER 20/H 100 TC 40 - ER 20/H 130 TC 40 - ER 20/H 160 TC 40 - ER 20/H 200	3344 0140 3099 3100 3104	4703 4704 4830 4705 4831	35	1 ÷ 13	0188	4994	3699	0787
TC 40 - ER 25/H 70 TC 40 - ER 25/H 100 TC 40 - ER 25/H 130 TC 40 - ER 25/H 160 TC 40 - ER 25/H 200	3345 0141 0142 0146 3105	4706 4707 4708 4709 4832	42	1 ÷ 16	0190	4995	3669	0996
TC 40 - ER 32/H 70 TC 40 - ER 32/H 100 TC 40 - ER 32/H 130 TC 40 - ER 32/H 160 TC 40 - ER 32/H 200	3346 3347 3101 3348 3102	4710 4711 4712 4713 4076	50	2 ÷ 20	0191	4996	3670	0988
TC 40 - ER 40/H 70 TC 40 - ER 40/H 100 TC 40 - ER 40/H 130 TC 40 - ER 40/H 160 TC 40 - ER 40/H 200	3349 3350 3351 0153 3103	4714 4715 4716 4717 4718	63	3 ÷ 30	0195	4997	3671	0821
TC 40 - ER 50/H 85	0154	4719	78	6 ÷ 34	0191	4998	3668	4055
TC 45 - ER 32/H 70 TC 45 - ER 32/H 100 TC 45 - ER 32/H 130 TC 45 - ER 32/H 160 TC 45 - ER 32/H 200	3353 3106 3354 0184 3107	---	50	2 ÷ 20	0191	4996	3670	0988
TC 45 - ER 40/H 80	3355	---	63	3 ÷ 30	0195	4997	3671	0821
TC 50 - ER 16/H 100 TC 50 - ER 16/H 160 TC 50 - ER 16/H 200	3451 3452 3453	4731 4732 4806	32	1 ÷ 10	0186	4993	3698	0364
TC 50 - ER 20/H 100 TC 50 - ER 20/H 160 TC 50 - ER 20/H 200	3110 3111 3112	4733 4734 4807	35	1 ÷ 13	0188	4994	3699	0787
TC 50 - ER 25/H 70 TC 50 - ER 25/H 100 TC 50 - ER 25/H 160 TC 50 - ER 25/H 200	3360 0193 0199 3372	4735 4736 4737 4808	42	1 ÷ 16	0190	4995	3669	0996

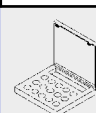
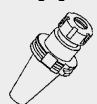
segue ➡

TIPO	FORMA		A	CAPACITA'				
	Art. A	Art. B						
TC 50 - ER 32/H 70	3900	4738	50	2 ÷ 20	0191	4996	3670	0988
TC 50 - ER 32/H 100	3361	4739						
TC 50 - ER 32/H 130	3362	4740						
TC 50 - ER 32/H 160	3363	4741						
TC 50 - ER 32/H 200	3364	4742						
TC 50 - ER 32/H 250	3382	4809						
TC 50 - ER 40/H 80	3901	4743	63	3 ÷ 30	0195	4997	3671	0821
TC 50 - ER 40/H 100	3365	4744						
TC 50 - ER 40/H 130	3366	4745						
TC 50 - ER 40/H 160	3367	4746						
TC 50 - ER 40/H 200	3368	4747						
TC 50 - ER 50/H 100	3369	4810						
TC 50 - ER 50/H 160	8044	8045						

**CASSETTE CON SERIE RIDOTTA
DI PINZE ER, MANDRINO FORMA A E CHIAVE**
EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS

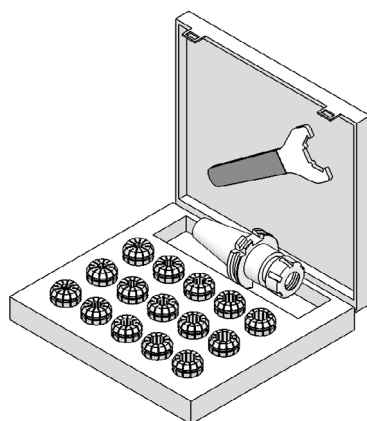


**FORMA
A**

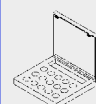


TIPO	Art.	A	3695	3669	0996: Ø 4-6-8-10-12-16
KIT Rid TC 30/H 55 - ER 25	7770	3342	3695	3669	0996: Ø 4-6-8-10-12-16
KIT Rid TC 30/H 60 - ER 32	7771	3343	3695	3670	0988: Ø 4-6-8-10-12-16-20
KIT Rid TC 40/H 70 - ER 25	7772	3345	3695	3669	0996: Ø 4-6-8-10-12-16
KIT Rid TC 40/H 70 - ER 32	7773	3346	3695	3670	0988: Ø 4-6-8-10-12-16-20
KIT Rid TC 40/H 70 - ER 40	7774	3349	3695	3671	0821: Ø 4-6-8-10-12-16-20-25
KIT Rid TC 50/H 70 - ER 32	7775	3900	3695	3670	0988: Ø 4-6-8-10-12-16-20
KIT Rid TC 50/H 80 - ER 40	7776	3901	3695	3671	0821: Ø 4-6-8-10-12-16-20-25

**CASSETTE CON SERIE COMPLETA
DI PINZE ER, MANDRINO FORMA A E CHIAVE**
EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS



**FORMA
A**



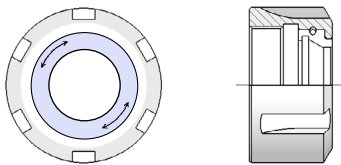
TIPO	Art.	A	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT TC 30/H 55 - ER25	7777	3342	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT TC 30/H 60 - ER32	7778	3343	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT TC 40/H 70 - ER25	7779	3345	3695	3669	0996: Ø 2 ÷ 16 (15 Pinze)
KIT TC 40/H 70 - ER32	7780	3346	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT TC 40/H 70 - ER40	7781	3349	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)
KIT TC 50/H 70 - ER32	7782	3900	3695	3670	0988: Ø 3 ÷ 20 (18 Pinze)
KIT TC 50/H 80 - ER40	7783	3901	3695	3671	0821: Ø 4 ÷ 26 (23 Pinze)

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

GHIERA con RALLA GIREVOLE

CARATTERISTICHE E VANTAGGI

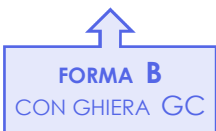
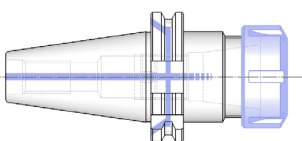
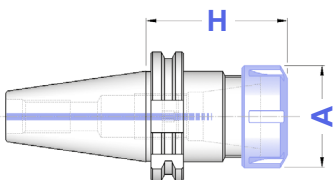
- Aumenta sensibilmente la forza di serraggio della pinza.
- Evita la torsione della pinza riducendone l'attrito con la sua sede e conseguentemente ne preserva la precisione.
- E' intercambiabile con le normali ghiera standard ed esagonali.



ROTARY RING NUT

CHARACTERISTICS AND ADVANTAGES

- Collet clamping force is sensitively increased.
- Avoids collet torsion reducing friction with its seat and consequently preserves its accuracy.
- Is interchangeable with standard and hexagonal nuts.



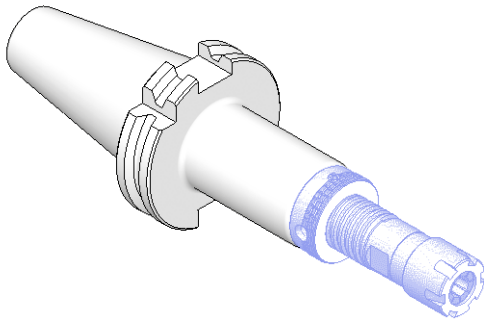
TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
TC 30 - ER 16 GC/H 55	8120	---	32	1 ÷ 10	0183	4954	3698	0364
TC 30 - ER 16 GC/H 100	8121	---						
TC 30 - ER 20 GC/H 55	8122	---	35	1 ÷ 13	0183	4955	3699	0787
TC 30 - ER 20 GC/H 100	8123	---						
TC 30 - ER 25 GC/H 55	8124	---	42	1 ÷ 16	0190	3697	3669	0996
TC 30 - ER 25 GC/H 100	8125	---						
TC 30 - ER 32 GC/H 60	8126	---	50	2 ÷ 20	0190	2911	3670	0988
TC 30 - ER 32 GC/H 100	8127	---						
TC 40 - ER 16 GC/H 70	8128	8177	32	1 ÷ 10	0186	4954	3698	0364
TC 40 - ER 16 GC/H 100	8129	8178						
TC 40 - ER 16 GC/H 130	8130	8179						
TC 40 - ER 16 GC/H 160	8131	8180						
TC 40 - ER 16 GC/H 200	8132	8181						
TC 40 - ER 20 GC/H 70	8133	8182						
TC 40 - ER 20 GC/H 100	8134	8183	35	1 ÷ 13	0188	4955	3699	0787
TC 40 - ER 20 GC/H 130	8135	8184						
TC 40 - ER 20 GC/H 160	8136	8185						
TC 40 - ER 20 GC/H 200	8137	8186						
TC 40 - ER 25 GC/H 70	8138	8187						
TC 40 - ER 25 GC/H 100	8139	8188						
TC 40 - ER 25 GC/H 130	8140	8189	42	1 ÷ 16	0190	3697	3669	0996
TC 40 - ER 25 GC/H 160	8141	8190						
TC 40 - ER 25 GC/H 200	8142	8191						
TC 40 - ER 32 GC/H 70	8143	8192						
TC 40 - ER 32 GC/H 100	8144	8193						
TC 40 - ER 32 GC/H 130	8145	8194						
TC 40 - ER 32 GC/H 160	8146	8195	50	2 ÷ 20	0191	2911	3670	0988
TC 40 - ER 32 GC/H 200	8147	8196						
TC 40 - ER 40 GC/H 70	8148	8197						
TC 40 - ER 40 GC/H 100	8149	8198						
TC 40 - ER 40 GC/H 130	8150	8199						
TC 40 - ER 40 GC/H 160	8151	8200						
TC 40 - ER 40 GC/H 200	8152	8201	63	3 ÷ 30	0195	2912	3671	0821
TC 50 - ER 16 GC/H 100	8154	8203						
TC 50 - ER 16 GC/H 160	8155	8204						
TC 50 - ER 16 GC/H 200	8156	8205						
TC 50 - ER 20 GC/H 100	8157	8206						
TC 50 - ER 20 GC/H 160	8158	8207						
TC 50 - ER 20 GC/H 200	8159	8208	42	1 ÷ 16	0190	3697	3669	0996
TC 50 - ER 25 GC/H 70	8160	8209						
TC 50 - ER 25 GC/H 100	8161	8210						
TC 50 - ER 25 GC/H 160	8162	8211						
TC 50 - ER 25 GC/H 200	8163	8212						
TC 50 - ER 32 GC/H 70	8164	8213						
TC 50 - ER 32 GC/H 100	8165	8214	50	2 ÷ 20	0191	2911	3670	0988
TC 50 - ER 32 GC/H 130	8166	8215						
TC 50 - ER 32 GC/H 160	8167	8216						
TC 50 - ER 32 GC/H 200	8168	8217						
TC 50 - ER 32 GC/H 250	8169	8218						
TC 50 - ER 40 GC/H 80	8170	8219						
TC 50 - ER 40 GC/H 100	8171	8220	63	3 ÷ 30	0195	2912	3671	0821
TC 50 - ER 40 GC/H 130	8172	8221						
TC 50 - ER 40 GC/H 160	8173	8222						
TC 50 - ER 40 GC/H 200	8174	8223						

DIN 69871


PORTA MANDRINI CON ATTACCO TRAPEZIO DIN 6327 AUTOMOTIVE SHANKS HOLDERS ACCORDING TO DIN 6327

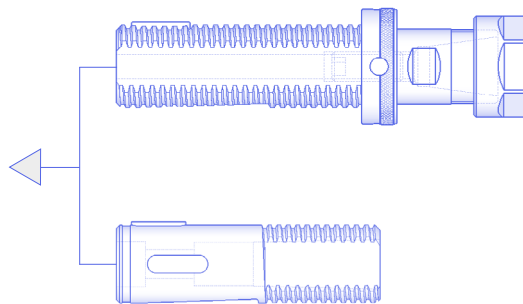
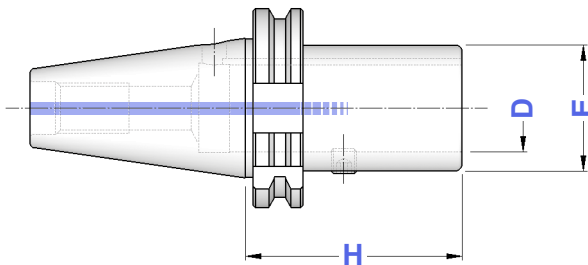
FORMA A (AD)

Balanced G 6,3
8.000 rpm



FORMA A

TIPO	Art.	D	H	E	
TC 40 - TR 20	3945	20	70	32	0020
TC 40 - TR 28	3946	28	70	40	0021
TC 40 - TR 36	3947	36	120	50	0021
TC 45 - TR 20	3948	20	70	32	0020
TC 45 - TR 28	3949	28	70	40	0021
TC 45 - TR 36	3950	36	100	50	0021
TC 50 - TR 28	3951	28	100	40	0021
TC 50 - TR 36	3952	36	100	50	0021
TC 50 - TR 48	3953	48	105	67	0060



Il programma DIN 6327
si trova da pag. 46

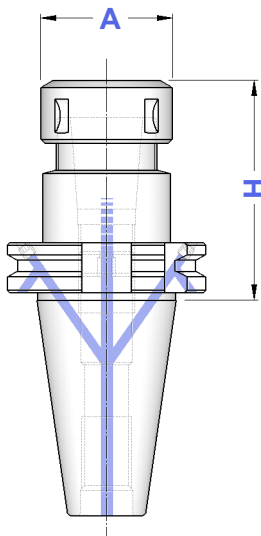
DIN 6327 program
is from page 46

DIN 69871




MANDRINI PER PINZE EOC DIN 6388 DIN 6388 COLLET CHUCKS

FORMA B (AD+B)

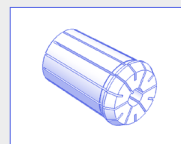
Balanced G 6,3
≤ H100 12.000 rpm
> H100 8.000 rpm



FORMA B



TIPO	Art.	A	CAPACITA'			
TC 40 - EOC 16/H 70	8693	43	2 ÷ 16	4067	2883	0768
TC 40 - EOC 16/H 100	8694					
TC 40 - EOC 16/H 130	8695					
TC 40 - EOC 25/H 70	8696	60	2 ÷ 25	4068	2909	0769
TC 40 - EOC 25/H 100	8697					
TC 40 - EOC 25/H 130	8698					
TC 40 - EOC 32/H 80	8699	72	3 ÷ 32	4069	2910	0770
TC 50 - EOC 16/H 70	8700	43	2 ÷ 16	4067	2883	0768
TC 50 - EOC 16/H 100	8701					
TC 50 - EOC 25/H 70	8702	60	2 ÷ 25	4068	2909	0769
TC 50 - EOC 25/H 100	8703					
TC 50 - EOC 25/H 130	8704					
TC 50 - EOC 32/H 80	8705	72	3 ÷ 32	4069	2910	0770
TC 50 - EOC 32/H 130	8706					

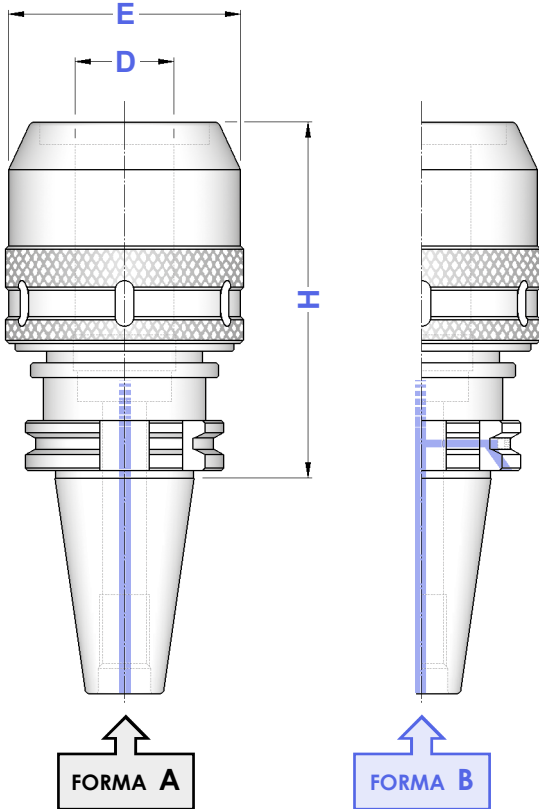
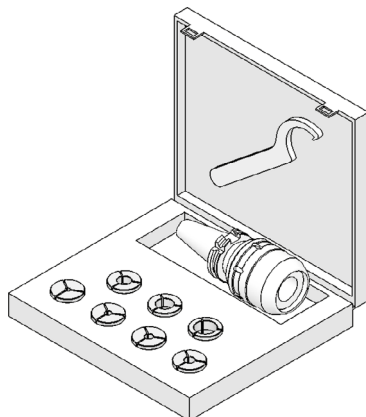
Pinze, ghiera e chiavi
EOC - DIN 6388
si trovano da pagina 28







Collets, nuts and wrenches
EOC - DIN 6388 type
you can find from page 28

DIN 69871**MANDRINI A FORTE SERRAGGIO**
HIGH GRIP CHUCKS**FORMA A (AD)****FORMA B (AD+B)**Balanced G 6,3
12.000 rpm

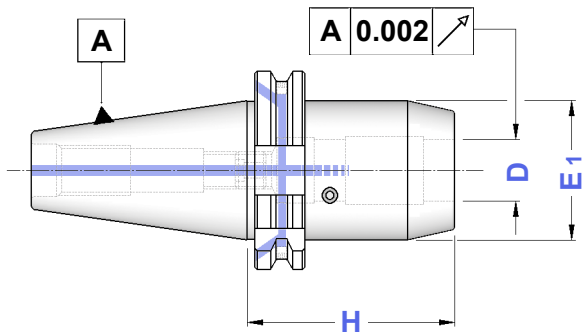
TIPO	FORMA A	FORMA B	D	E		
	Art.	Art.				
TC 40 - PC 20/H 80	5110	5222	20	54	2900	0809
TC 40 - PC 20/H 105	3241	—				
TC 40 - PC 32/H 90	5111	5223	32	74	2910	0810
TC 40 - PC 32/H 105	3242	—				
TC 40 - PC 32/H 135	5103	—				
TC 50 - PC 20/H 80	5112	5225	20	54	2900	0809
TC 50 - PC 20/H 105	3243	—				
TC 50 - PC 32/H 90	5113	5226	32	74	2910	0810
TC 50 - PC 32/H 105	3244	—				
TC 50 - PC 32/H 135	5106	—				

**Pinze cilindriche di riduzione
per Mandrini a Forte Serraggio
a pag. 31**Reduction cylindrical collets
for High Grip Chucks on page 31**CASSETTE CON MANDRINO
CHIAVE E PINZE**EQUIPMENT BOXES WITH COLLET CHUCK
WRENCH AND COLLETS**FORMA A**

TIPO	Art.				
KIT TC 40 - PC 20 / H 80	7543	5110	3695	2900	0809 \varnothing 6 - 8 - 10 - 12 - 16
KIT TC 40 - PC 20 / H 105	7704	3241			
KIT TC 40 - PC 32 / H 90	7544	5111	3695	2910	0810 \varnothing 6 - 8 - 10 - 12 - 16 - 20 - 25
KIT TC 40 - PC 32 / H 105	7707	3242			
KIT TC 50 - PC 20 / H 80	7545	5112	3695	2900	0809 \varnothing 6 - 8 - 10 - 12 - 16
KIT TC 50 - PC 20 / H 105	7708	3243			
KIT TC 50 - PC 32 / H 90	7546	5113	3695	2910	0810 \varnothing 6 - 8 - 10 - 12 - 16 - 20 - 25
KIT TC 50 - PC 32 / H 105	7711	3244			

DIN 69871**MANDRINI A SERRAGGIO IDRAULICO
TIPO CORTO**

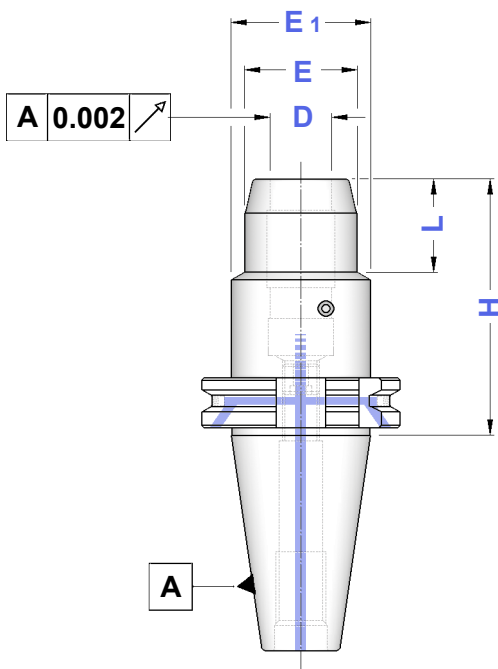
SHORT TYPE HYDRAULIC CHUCKS

FORMA B (AD+B)Balanced G 2,5
20.000 rpm**FORMA
B**

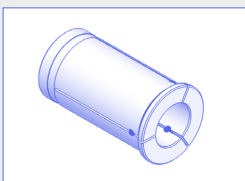
TIPO	Art.	D	H	E1	
TC 40 - HYDRO 20	5150	20	64	49,5	0521
TC 50 - HYDRO 32	5160	32	81	72,0	0522

DIN 69871**MANDRINI A SERRAGGIO IDRAULICO
TIPO ALLEGGERITO**

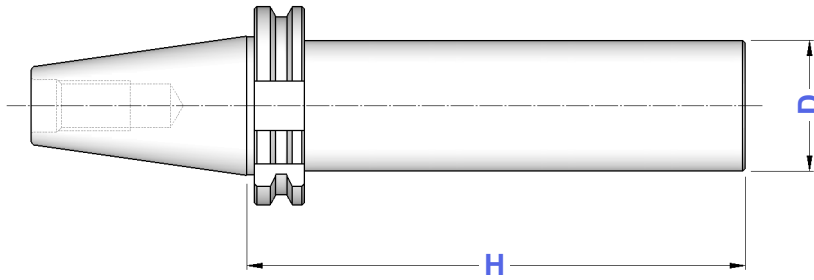
RELIEVED TYPE HYDRAULIC CHUCKS

FORMA B (AD+B)Balanced G 2,5
20.000 rpm**FORMA
B**

TIPO	Art.	D	H	E	E1	L
TC 40 - HYDRO 6/H 80	5151	6	80	26	49,5	29,5
TC 40 - HYDRO 8/H 80	5152	8	80	28	49,5	30,0
TC 40 - HYDRO 10/H 80	5153	10	80	30	49,5	35,0
TC 40 - HYDRO 12/H 80	5154	12	80	32	49,5	40,0
TC 40 - HYDRO 16/H 80	5155	16	80	38	49,5	45,0
TC 40 - HYDRO 20/H 80	5156	20	80	42	49,5	47,0
TC 40 - HYDRO 25/H 80	5157	25	80	55	63,0	28,0
TC 40 - HYDRO 32/H 80	5158	32	80	63	70,0	25,5
TC 50 - HYDRO 6/H 80	8995	6	80	26	49,5	29,5
TC 50 - HYDRO 8/H 80	8996	8	80	28	49,5	30,0
TC 50 - HYDRO 10/H 80	8997	10	80	30	49,5	35,0
TC 50 - HYDRO 12/H 80	8998	12	80	32	49,5	40,0
TC 50 - HYDRO 16/H 80	8999	16	80	38	49,5	45,0
TC 50 - HYDRO 20/H 80	5161	20	80	42	49,5	42,0
TC 50 - HYDRO 25/H 100	5021	25	100	55	63,0	48,0
TC 50 - HYDRO 32/H 100	5162	32	100	63	70,0	61,0

**Pinze cilindriche a tenuta stagna
per Mandrini Idraulici a pag. 31
del Catalogo Generale**Watertight cylindrical collets
for Hydraulic Chucks on
General Catalogue page 31**Applicazioni:** consente il bloccaggio ad alta precisione di utensili a gambo cilindrico DIN 1835 Forma A e B, con tolleranza di gambo h 6 e rugosità Ra < 0,3 micron**Attenzione :** non azionare il sistema idraulico se l'utensile non è inserito nel mandrino**Applications :** allows high precision locking of DIN 1835 shank tools Form A and B, with shank tolerance h 6 and surface roughness Ra < 0,3 micron.**Warning :** do not start Hydraulic System without any tool fit inside

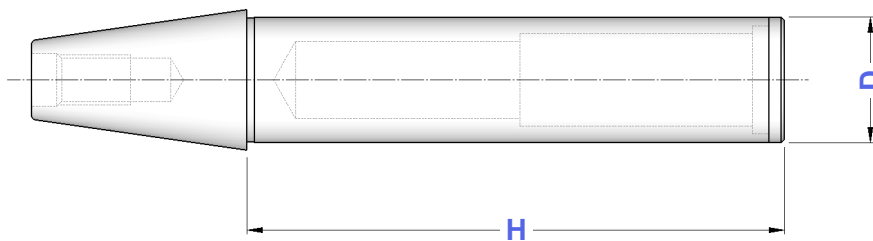
FORMA A



TIPO	Art.	H	D
TC 40 - D. 40	4355	160	40
TC 40 - D. 50	4356	200	50
TC 40 - D. 63	4357	250	63
TC 50 - D. 40	4362	160	40
TC 50 - D. 50	4363	250	50
TC 50 - D. 63	4364	250	63
TC 50 - D. 80	4365	300	80

BARRE DI CONTROLLO TEST ARBORS

TIPO	Art.	H	D
CONO 40 - D. 40 SC	2225	300	40
CONO 50 - D. 50 SC	2229	350	50



Tolleranze della barra

- Rettilinearità = 0,003
- Rotondità in rotazione = 0,003
- Cilindricità = 0,003

Bars tolerance

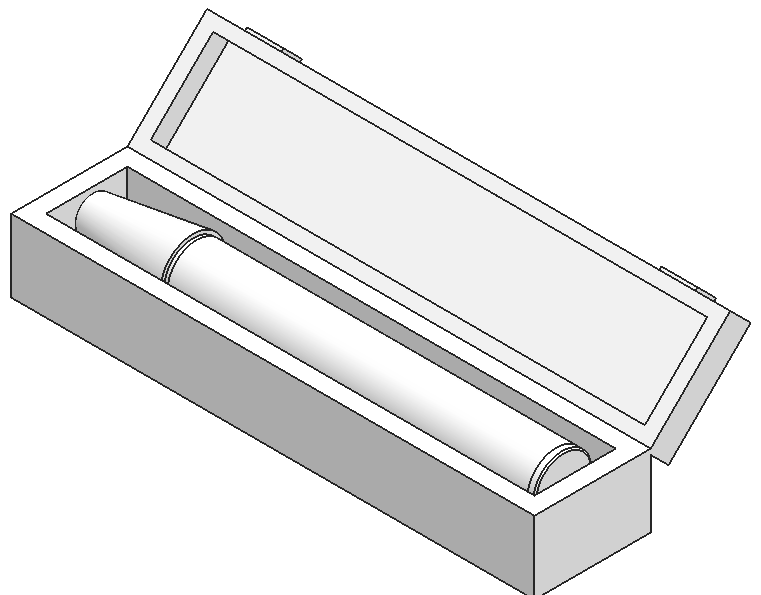
- Straightnes = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

Dati costruttivi

- Costruite in acciaio da cementazione certificato
- Cementate con profondità 0,4 - 0,5 mm
- Temprate, rinvenute, brunite
- Durezza HRC 58 ± 2 , resistenza 800-1000 N/mm²
- Finitura di rettifica esterna
- Collaudate 100% con strumenti di misura certificati

Constructive Features

- Manufactured with casehardening steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened, tempered, black oxidized
- Hardnes HRC 58 ± 2 , strenght 800-1000 N/mm²
- External grinding finish
- Tested 100% with certified measuring instruments



Balanced G 6,3
12.000 rpm

TIPO	FORMA	FORMA	D	H	E	Fig.	G1	G2
	A	B						
	Art.	Art.						
TC 40 - WE 12/H 35	3079	8341	12	35	44	1	4973	—
TC 40 - WE 14/H 35	8338	8342	14	35	44	1	0390	—
TC 40 - WE 16/H 35	3080	2231	16	35	44	1	0068	—
TC 40 - WE 18/H 35	8339	8343	18	35	44	1	0261	—
TC 40 - WE 20/H 35	3081	2242	20	35	44	1	0070	—
TC 40 - WE 25/H 35	3082	2243	25	35	44	1	0076	—
TC 40 - WE 25/H 60	3015	4641		60	49	2	0076	0076
TC 40 - WE 32/H 40	3083	4642	32	40	44	1	0074	—
TC 40 - WE 32/H 70	4640	4643		70	72	2	0082	4977
TC 45 - WE 25/H 35	3085	—	25	35	57	1	0075	—
TC 50 - WE 16/H 35	3086	2234	16	35	70	1	4974	—
TC 50 - WE 18/H 35	8340	8344	18	35	70	1	4974	—
TC 50 - WE 20/H 35	3087	2237	20	35	70	1	4975	—
TC 50 - WE 25/H 35	3088	2251	25	35	70	1	4976	—
TC 50 - WE 32/H 35	3089	2252	32	35	70	1	4977	—
TC 50 - WE 40/H 35	3136	8345	40	35	70	1	0259	—

WELDON EXTRACORTO

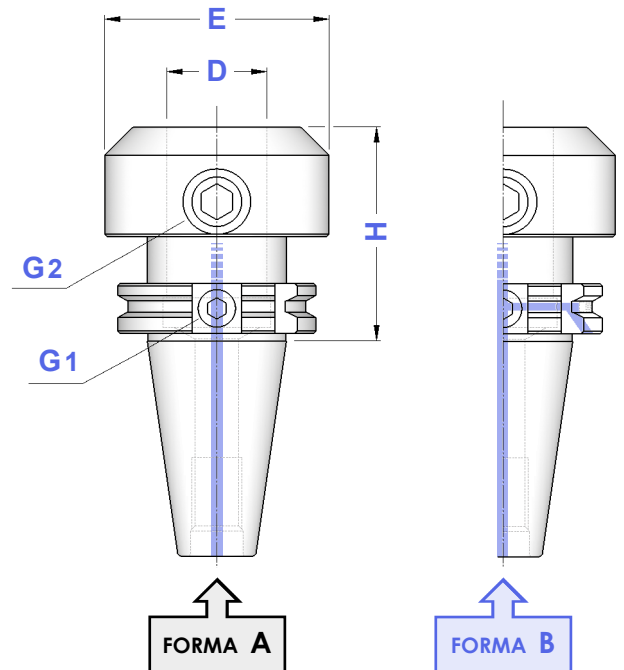
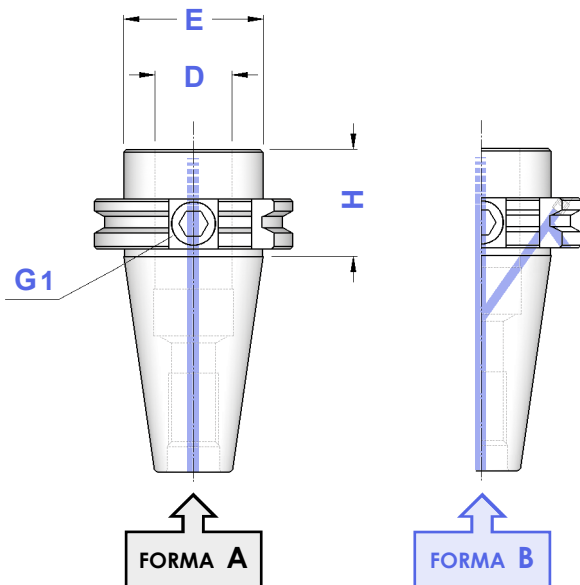
SHORT TYPE END MILL

Figura 1

WELDON EXTRACORTO

SHORT TYPE END MILL

Figura 2



Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

Figura 1

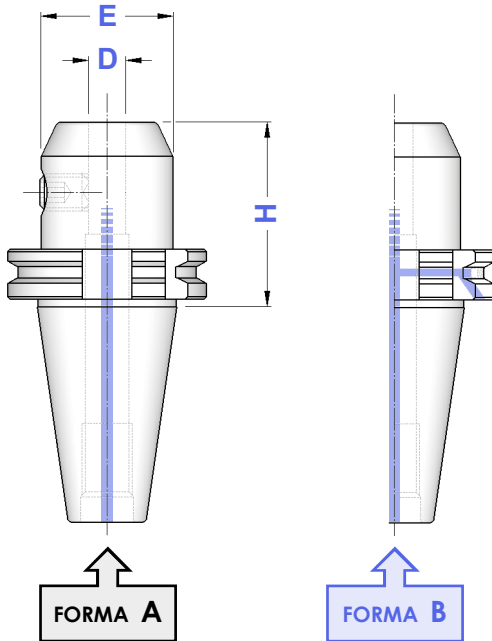
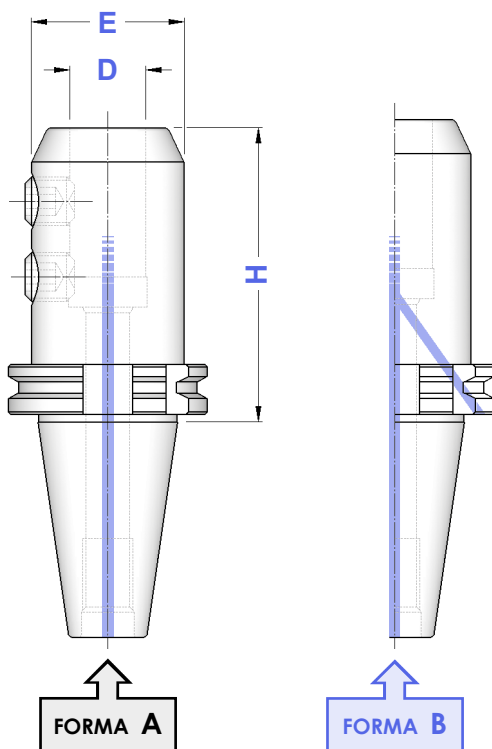
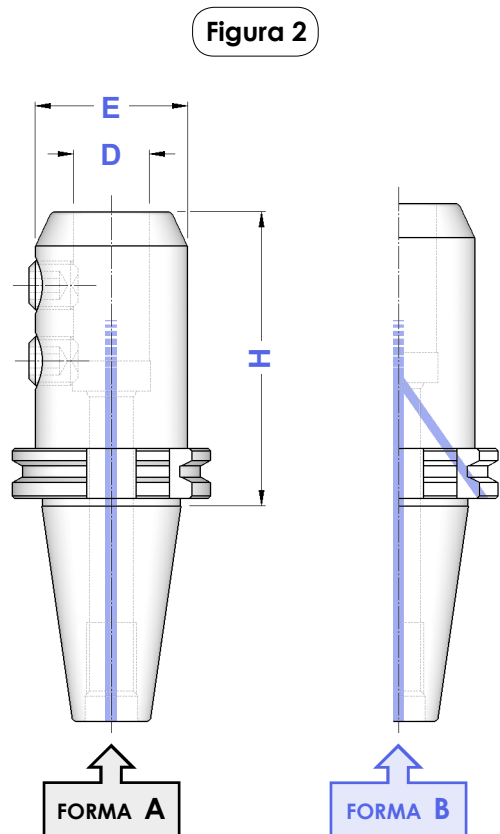
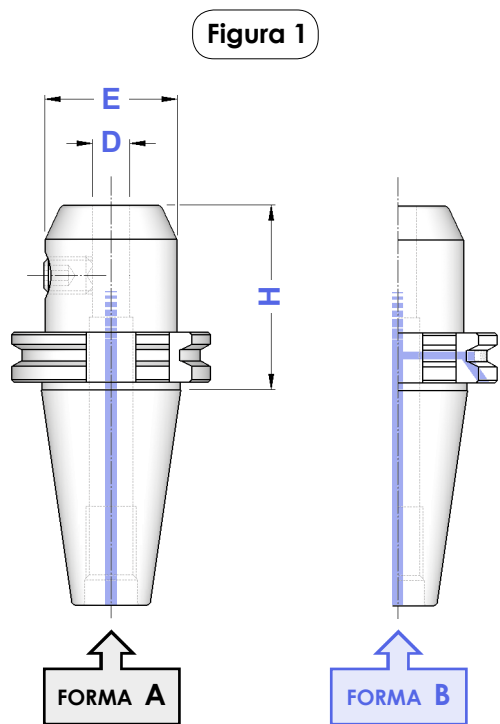


Figura 2



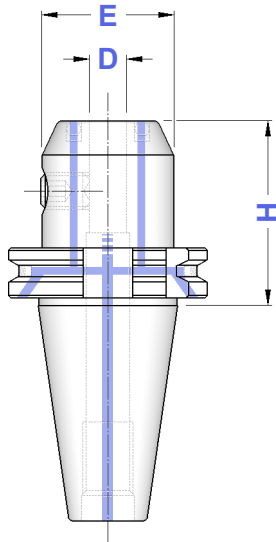
TIPO	FORMA	FORMA	D	H	E	Fig.	Fig.
	A	B					
TC 30 - WE 6/H 45	3707	—	6	45	25	1	4970
TC 30 - WE 8/H 45	3708	—	8	45	28	1	4971
TC 30 - WE 10/H 50	3709	—	10	50	35	1	4972
TC 30 - WE 12/H 50	3710	—	12	50	42	1	4973
TC 30 - WE 16/H 70	3711	—	16	70	48	1	4974
TC 30 - WE 20/H 70	3712	—	20	70	52	1	4975
TC 40 - WE 6/H 50	3714	4761	6	50	25	1	4970
TC 40 - WE 6/H 100	5001	5028		100			
TC 40 - WE 6/H 130	5400	5416		130			
TC 40 - WE 6/H 160	5519	5551		160			
TC 40 - WE 6/H 200	4029	4144		200			
TC 40 - WE 8/H 50	3715	4762	8	50	28	1	4971
TC 40 - WE 8/H 100	5002	5029		100			
TC 40 - WE 8/H 130	5401	5417		130			
TC 40 - WE 8/H 160	5520	5552		160			
TC 40 - WE 8/H 200	4030	4146		200			
TC 40 - WE 10/H 50	3716	4763	10	50	35	1	4972
TC 40 - WE 10/H 100	5003	5030		100			
TC 40 - WE 10/H 130	5402	5418		130			
TC 40 - WE 10/H 160	5521	5553		160			
TC 40 - WE 10/H 200	4031	4148		200			
TC 40 - WE 12/H 50	3717	4764	12	50	42	1	4973
TC 40 - WE 12/H 100	5004	5031		100			
TC 40 - WE 12/H 130	5403	5419		130			
TC 40 - WE 12/H 160	5524	5554		160			
TC 40 - WE 12/H 200	4032	4150		200			
TC 40 - WE 14/H 50	3594	4765	14	50	44	1	4973
TC 40 - WE 14/H 100	5005	5032		100			
TC 40 - WE 14/H 130	4033	4155		130			
TC 40 - WE 14/H 160	4034	4157		160			
TC 40 - WE 14/H 200	4035	4158		200			
TC 40 - WE 16/H 63	3718	4766	16	63	48	1	4974
TC 40 - WE 16/H 100	5006	5033		100			
TC 40 - WE 16/H 130	5404	5420		130			
TC 40 - WE 16/H 160	5007	5035		160			
TC 40 - WE 16/H 200	4036	4159		200			
TC 40 - WE 18/H 63	3595	4767	18	63	50	1	4974
TC 40 - WE 18/H 100	5008	5036		100			
TC 40 - WE 18/H 130	4037	4160		130			
TC 40 - WE 18/H 160	4038	4162		160			
TC 40 - WE 18/H 200	4039	4163		200			
TC 40 - WE 20/H 63	3719	4768	20	63	52	1	4975
TC 40 - WE 20/H 100	5010	5038		100			
TC 40 - WE 20/H 130	5011	5039		130			
TC 40 - WE 20/H 160	5012	5040		160			
TC 40 - WE 20/H 200	4043	4164		200			
TC 40 - WE 25/H 100	3720	4769	25	100	65	2	4976
TC 40 - WE 25/H 130	5013	5041		130			
TC 40 - WE 25/H 160	5014	5042		160			
TC 40 - WE 25/H 200	4044	4166		200			
TC 40 - WE 32/H 100	3721	4770	32	100	72	2	4977
TC 40 - WE 32/H 130	5015	5043		130			
TC 40 - WE 32/H 160	5016	5044		160			
TC 40 - WE 32/H 200	4045	4168		200			
TC 40 - WE 40/H 115	4457	4771	40	115	80	2	4977

segue ➡



TIPO	FORMA	FORMA	D	H	E	Fig.	Fig.
	A	B					
	Art.	Art.					
TC 45 - WE 6/H 63	3722	---	6	63	25	1	4970
TC 45 - WE 8/H 63	3723	---	8	63	28	1	4971
TC 45 - WE 10/H 63	3724	---	10	63	35	1	4972
TC 45 - WE 12/H 63	3725	---	12	63	42	1	4973
TC 45 - WE 16/H 63	3726	---	16	63	48	1	4974
TC 45 - WE 20/H 63	3727	---	20	63	52	1	4975
TC 45 - WE 25/H100	3728	---	25	100	65	2	4976
TC 45 - WE 32/H100	3729	---	32	100	72	2	4977
TC 45 - WE 40/H100	4515	---	40	100	80	2	4977
TC 50 - WE 6/H 63	3730	4783	6	63	25	1	4970
TC 50 - WE 6/H100	5017	5045		100			
TC 50 - WE 6/H130	5405	5426		130			
TC 50 - WE 6/H160	5525	5555		160			
TC 50 - WE 6/H200	4123	4173		200			
TC 50 - WE 8/H 63	3731	4784	8	63	28	1	4971
TC 50 - WE 8/H100	5018	5046		100			
TC 50 - WE 8/H130	5406	5427		130			
TC 50 - WE 8/H160	5526	5556		160			
TC 50 - WE 8/H200	4125	4175		200			
TC 50 - WE 10/H 63	3732	4785	10	63	35	1	4972
TC 50 - WE 10/H100	5019	5047		100			
TC 50 - WE 10/H130	5407	5428		130			
TC 50 - WE 10/H160	5527	5558		160			
TC 50 - WE 10/H200	4128	4177		200			
TC 50 - WE 12/H 63	3733	4786	12	63	42	1	4973
TC 50 - WE 12/H100	5528	5559		100			
TC 50 - WE 12/H130	5408	5429		130			
TC 50 - WE 12/H160	5020	5048		160			
TC 50 - WE 12/H200	4129	4179		200			
TC 50 - WE 14/H 63	4516	4787	14	63	44	1	4973
TC 50 - WE 14/H100	5529	5560		100			
TC 50 - WE 14/H130	4130	4182		130			
TC 50 - WE 14/H160	4132	4183		160			
TC 50 - WE 14/H200	4134	4204		200			
TC 50 - WE 16/H 63	3734	4788	16	63	48	1	4974
TC 50 - WE 16/H100	5534	5561		100			
TC 50 - WE 16/H130	5409	5430		130			
TC 50 - WE 16/H160	5022	5050		160			
TC 50 - WE 16/H200	4136	4206		200			
TC 50 - WE 18/H 63	4517	4789	18	63	50	1	4974
TC 50 - WE 18/H100	5535	5562		100			
TC 50 - WE 18/H130	4137	4213		130			
TC 50 - WE 18/H160	4138	4215		160			
TC 50 - WE 18/H200	4139	4236		200			
TC 50 - WE 20/H 63	3735	4790	20	63	52	1	4975
TC 50 - WE 20/H100	5536	5563		100			
TC 50 - WE 20/H130	5410	5431		130			
TC 50 - WE 20/H160	5024	5052		160			
TC 50 - WE 20/H200	4140	4242		200			
TC 50 - WE 25/H 80	3736	4791	25	80	65	2	4976
TC 50 - WE 25/H100	5413	5051		100			
TC 50 - WE 25/H130	5414	5432		130			
TC 50 - WE 25/H160	5025	5054		160			
TC 50 - WE 25/H200	4141	4244		200			
TC 50 - WE 32/H100	3737	4792	32	100	72	2	4977
TC 50 - WE 32/H130	5415	5433		130			
TC 50 - WE 32/H160	5026	5055		160			
TC 50 - WE 32/H200	4142	4245		200			
TC 50 - WE 40/H120	3738	4793	40	120	80	2	4977
TC 50 - WE 40/H160	5027	5056		160			
TC 50 - WE 50/H120	3739	4247	50	120	97	2	4978

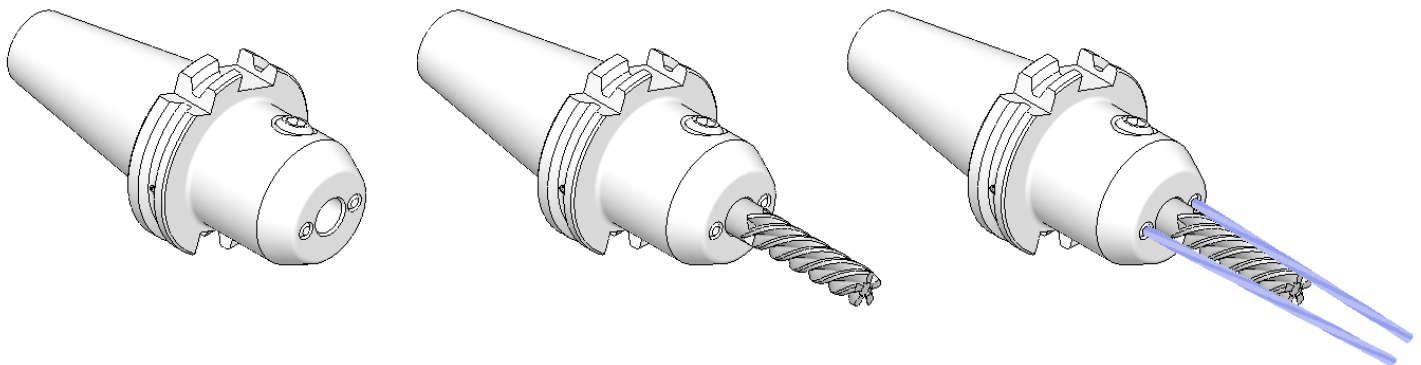
Balanced G 6,3
12.000 rpm



FORMA
B



TIPO	Art.	D	H	E	
TC 40 - WEC 6/H 50	7850	6	50	25	4970
TC 40 - WEC 8/H 50	7851	8	50	28	4971
TC 40 - WEC 10/H 50	7852	10	50	35	4972
TC 40 - WEC 12/H 50	7853	12	50	42	4973
TC 40 - WEC 14/H 50	7854	14	50	44	4973
TC 40 - WEC 16/H 63	7855	16	63	48	4974
TC 40 - WEC 18/H 63	7856	18	63	50	4974
TC 40 - WEC 20/H 63	7857	20	63	52	4975
TC 40 - WEC 25/H 100	7858	25	100	65	4976
TC 40 - WEC 32/H 100	7859	32	100	72	4977
TC 40 - WEC 40/H 115	7860	40	115	80	4977
TC 50 - WEC 6/H 63	7861	6	63	25	4970
TC 50 - WEC 8/H 63	7862	8	63	28	4971
TC 50 - WEC 10/H 63	7863	10	63	35	4972
TC 50 - WEC 12/H 63	7864	12	63	42	4973
TC 50 - WEC 14/H 63	7865	14	63	44	4973
TC 50 - WEC 16/H 63	7866	16	63	48	4974
TC 50 - WEC 18/H 63	7867	18	63	50	4974
TC 50 - WEC 20/H 63	7868	20	63	52	4975
TC 50 - WEC 25/H 80	7869	25	80	65	4976
TC 50 - WEC 32/H 100	7870	32	100	72	4977
TC 50 - WEC 40/H 120	7871	40	120	80	4977



Dove trovare questi Articoli

Where to find those Items



Ugelli a sfera - pag. 263

Sphere coolant nozzles - page 263



Prolunghe per ugelli - pag. 263

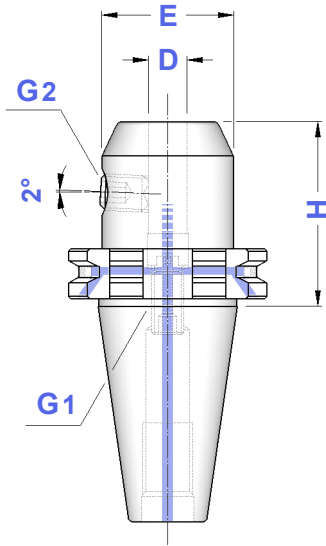
Extensions for coolant nozzles - page 263

Balanced G 6,3
12.000 rpm

FORMA
B

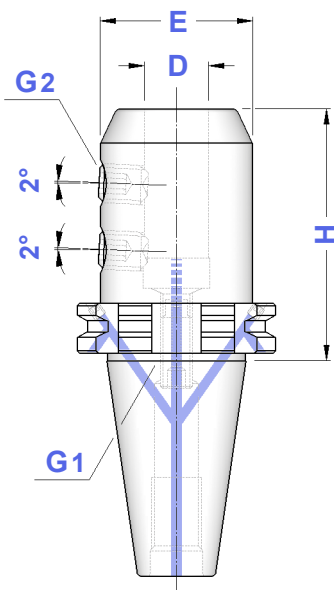


Figura 1



TIPO	Art.	D	H	E	Fig.	G1	G2
TC 40 - WN 6 / H 50	4795	6	50	25	1	0233	4970
TC 40 - WN 8 / H 50	4796	8	50	28	1	0235	4971
TC 40 - WN10 / H 50	4797	10	50	35	1	0238	4972
TC 40 - WN12 / H 50	4798	12	50	42	1	0240	4973
TC 40 - WN14 / H 50	4799	14	50	44	1	0240	4973
TC 40 - WN16 / H 63	4800	16	63	48	1	0245	4974
TC 40 - WN18 / H 63	4801	18	63	50	1	0245	4974
TC 40 - WN20 / H 63	4802	20	63	52	1	0245	4975
TC 40 - WN25 / H 100	4803	25	100	65	2	0212	4976
TC 40 - WN32 / H 100	4804	32	100	72	2	0212	4977
TC 40 - WN40 / H 115	4805	40	115	80	2	0212	4977
TC 50 - WN 6 / H 63	4815	6	63	25	1	0233	4970
TC 50 - WN 8 / H 63	4816	8	63	28	1	0235	4971
TC 50 - WN10 / H 63	4817	10	63	35	1	0238	4972
TC 50 - WN12 / H 63	4818	12	63	42	1	0240	4973
TC 50 - WN14 / H 63	4819	14	63	44	1	0240	4973
TC 50 - WN16 / H 63	4820	16	63	48	1	0245	4974
TC 50 - WN18 / H 63	4821	18	63	50	1	0245	4974
TC 50 - WN20 / H 63	4822	20	63	52	1	0245	4975
TC 50 - WN25 / H 80	4823	25	80	65	2	0247	4976
TC 50 - WN32 / H 100	4824	32	100	72	2	0247	4977
TC 50 - WN40 / H 120	4825	40	120	80	2	0247	4977

Figura 2



Dove trovare questi Articoli

Where to find those Items



Grani di bloccaggio - pag. 197
Locking screws - page 197



Grani di bloccaggio - pag. 199
Locking screws - page 199

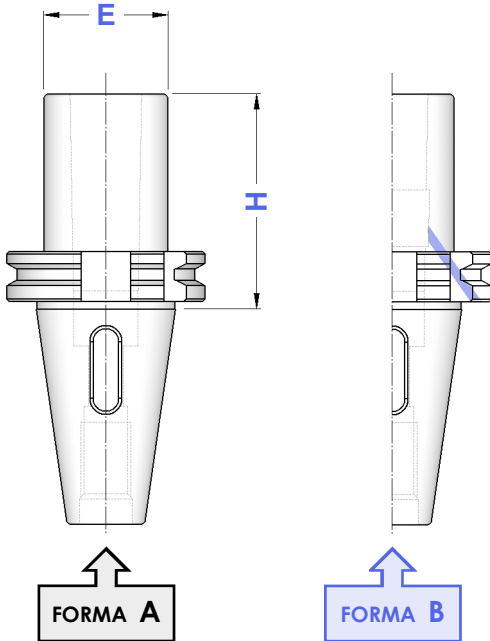
DIN 69871

RIDUZIONI A CONO MORSE PER PUNTE MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

FORMA A

FORMA B

Balanced G 6,3
8.000 rpm



TIPO	FORMA A	FORMA B	CM	H	E
	Art.	Art.			
TC 30 - CM 1 PUNTE	3600	—	1	55	25
TC 30 - CM 2 PUNTE	3631	—	2	65	32
TC 30 - CM 3 PUNTE	3632	—	3	90	40
TC 40 - CM 1 PUNTE	3601	4826	1	50	25
TC 40 - CM 2 PUNTE	3602	4827	2	60	32
TC 40 - CM 3 PUNTE	3635	4828	3	70	40
TC 40 - CM 4 PUNTE	3636	4829	4	95	48
TC 45 - CM 1 PUNTE	3589	—	1	50	25
TC 45 - CM 2 PUNTE	3590	—	2	60	32
TC 45 - CM 3 PUNTE	3591	—	3	80	40
TC 45 - CM 4 PUNTE	3640	—	4	100	48
TC 50 - CM 1 PUNTE	3603	—	1	45	25
TC 50 - CM 2 PUNTE	3604	4835	2	60	32
TC 50 - CM 3 PUNTE	3605	4836	3	65	40
TC 50 - CM 4 PUNTE	3645	4837	4	95	48
TC 50 - CM 5 PUNTE	3646	4838	5	120	63

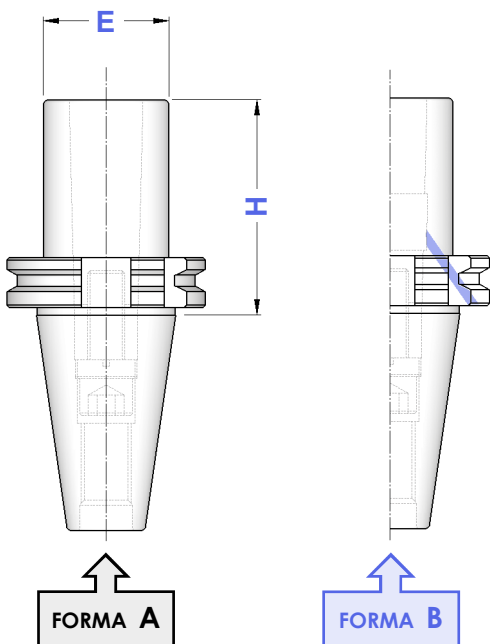
DIN 69871




RIDUZIONI A CONO MORSE PER FRESE MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK

FORMA A

FORMA B

Balanced G 6,3
8.000 rpm



TIPO	FORMA A	FORMA B	CM	H	E			
	Art.	Art.						
TC 30 - CM 2 FRESE	3892	—	2	60	32	7448	7422	4569
TC 30 - CM 3 FRESE	3893	—	3	80	40	7402	7423	4570
TC 40 - CM 2 FRESE	3681	4840	2	50	32	7448	7422	4569
TC 40 - CM 3 FRESE	3894	4841	3	70	40	7403	7423	4570
TC 40 - CM 4 FRESE	3895	4842	4	95	48	7404	7424	4571
TC 45 - CM 4 FRESE	3896	—	4	110	48	7407	7424	4571
TC 50 - CM 2 FRESE	3666	4848	2	60	32	7448	7422	4569
TC 50 - CM 3 FRESE	3897	4849	3	65	40	7403	7423	4570
TC 50 - CM 4 FRESE	3898	4850	4	95	48	7407	7424	4571
TC 50 - CM 5 FRESE	3899	4851	5	120	63	7408	7425	4572

DIN 69871

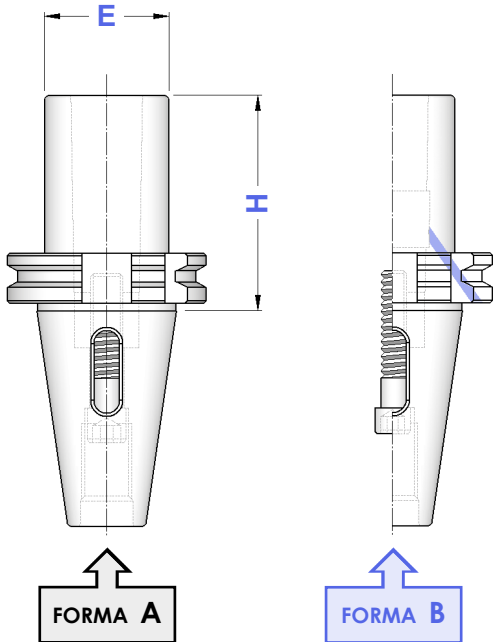
RIDUZIONI A CONO MORSE PUNTE+FRESE COMBINATE



COMBI MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS

FORMA A

FORMA B

Balanced G 6,3
8.000 rpm



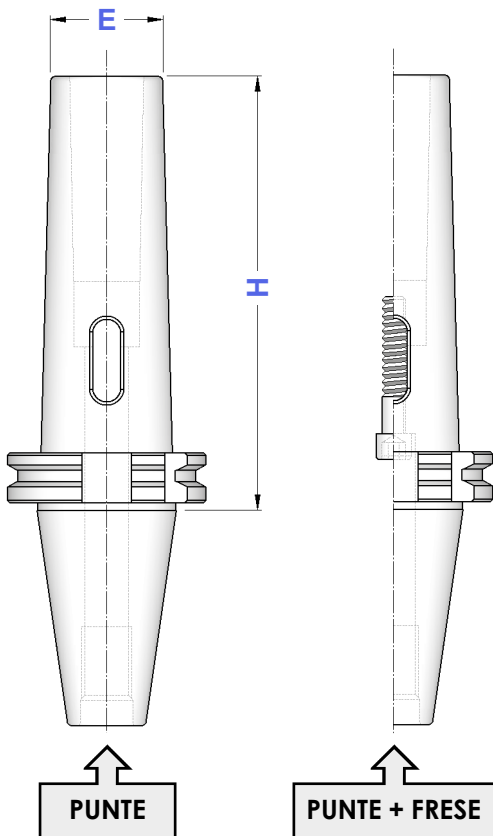
TIPO	FORMA A	FORMA B	CM	H	E		
	Art.	Art.					
TC 30 - CM 1 P+F	3630	—	1	55	25	7415	—
TC 30 - CM 2 P+F	3606	—	2	65	32	7400	0276
TC 30 - CM 3 P+F	3608	—	3	90	40	7418	0130
TC 40 - CM 1 P+F	3633	8740	1	50	25	7400	—
TC 40 - CM 2 P+F	3634	8741	2	60	32	7401	—
TC 40 - CM 3 P+F	3607	8742	3	70	40	7400	0130
TC 45 - CM 1 P+F	3637	—	1	50	25	7400	—
TC 45 - CM 2 P+F	3638	—	2	60	32	7405	—
TC 45 - CM 3 P+F	3639	—	3	80	40	7455	—
TC 45 - CM 4 P+F	3641	—	4	100	48	0056	0129
TC 50 - CM 1 P+F	3642	—	1	45	25	7400	—
TC 50 - CM 2 P+F	3643	8743	2	60	32	7405	—
TC 50 - CM 3 P+F	3644	8744	3	65	40	7406	—
TC 50 - CM 4 P+F	3682	8745	4	95	48	7409	—
TC 50 - CM 5 P+F	3683	8746	5	120	63	7406	0131



DIN 69871

RIDUZIONI A CONO MORSE PER PUNTE E PUNTE+FRESE TIPO PROLUNGATO

EXTENDED MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS

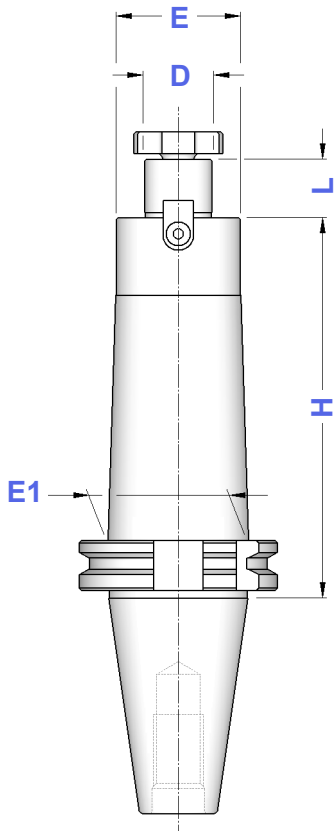
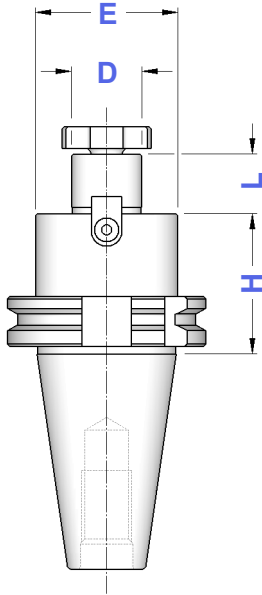
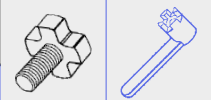
FORMA A



TIPO	PUNTE	PUNTE + FRESE	CM	H	E		
	Art.	Art.					
TC 40 - CM 1	3778	4238	1	115	18	7400	—
TC 40 - CM 2	3779	4239	2	125	25	7401	—
TC 40 - CM 3	3780	4240	3	140	33	7400	0130
TC 40 - CM 4	4241	—	4	165	40	—	—
TC 45 - CM 1	—	3684	1	120	18	7400	—
TC 45 - CM 2	—	3685	2	130	25	7405	—
TC 45 - CM 3	—	3686	3	140	33	7455	—
TC 45 - CM 4	—	3687	4	160	40	0056	0129
TC 50 - CM 1	3745	4248	1	120	18	7400	—
TC 50 - CM 2	3746	4249	2	140	25	7405	—
TC 50 - CM 3	3747	4250	3	150	33	7406	—
TC 50 - CM 4	3748	4251	4	180	40	7409	—
TC 50 - CM 5	3749	4252	5	220	55	0055	0131

Balanced G 6,3
8.000 rpm

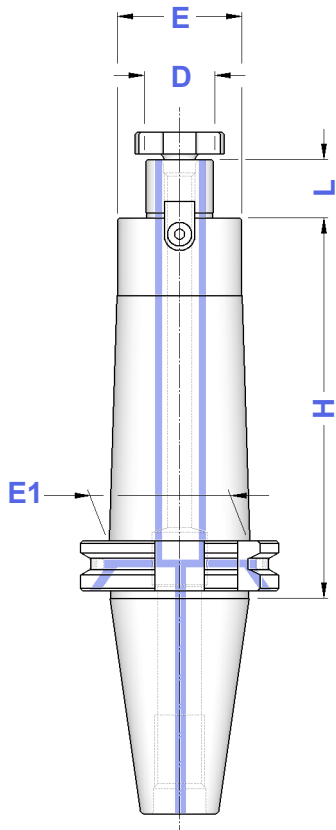
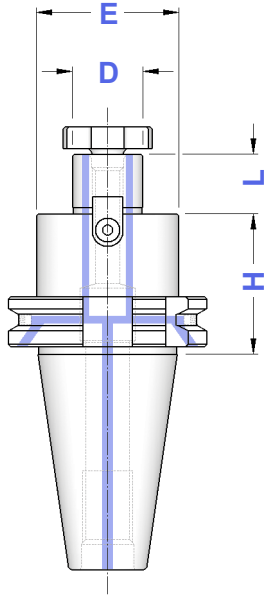
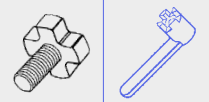
FORMA
A



TIPO	Art.	D	L	E	E1		
TC 30 - D. 13 FISSO / H 35	3940	13	12	28	28	0482	—
TC 30 - D. 16 FISSO / H 35	4122	16	17	38	38	4985	4562
TC 30 - D. 22 FISSO / H 50	4124	22	19	48	48	4986	4563
TC 30 - D. 27 FISSO / H 50	4126	27	21	58	58	4987	4564
TC 30 - D. 32 FISSO / H 55	4143	32	24	58	58	4988	4565
TC 40 - D. 13 FISSO / H 45	8363	13	12	28	28	0482	—
TC 40 - D. 16 FISSO / H 45	4127	16	17	38	38	4985	4562
TC 40 - D. 16 FISSO / H 100	5537						
TC 40 - D. 16 FISSO / H 130	9400						
TC 40 - D. 16 FISSO / H 160	8364						
TC 40 - D. 16 FISSO / H 200	8365						
TC 40 - D. 22 FISSO / H 45	4652	22	19	48	48	4986	4563
TC 40 - D. 22 FISSO / H 100	5538						
TC 40 - D. 22 FISSO / H 130	9401						
TC 40 - D. 22 FISSO / H 160	5539						
TC 40 - D. 22 FISSO / H 200	8366						
TC 40 - D. 27 FISSO / H 50	4653	27	21	58	58	4987	4564
TC 40 - D. 27 FISSO / H 100	5540						
TC 40 - D. 27 FISSO / H 130	9402						
TC 40 - D. 27 FISSO / H 160	5541						
TC 40 - D. 27 FISSO / H 200	8367						
TC 40 - D. 32 FISSO / H 55	4654	32	24	78	78	4988	4565
TC 40 - D. 32 FISSO / H 100	5542						
TC 40 - D. 32 FISSO / H 160	8368						
TC 40 - D. 40 FISSO / H 55	4655	40	27	88	88	4989	4566
TC 40 - D. 40 FISSO / H 100	4694						
TC 40 - D. 40 FISSO / H 160	8369						
TC 50 - D. 16 FISSO / H 45	4661	16	17	38	38	4985	4562
TC 50 - D. 16 FISSO / H 100	4695						
TC 50 - D. 16 FISSO / H 130	9405						
TC 50 - D. 16 FISSO / H 160	8370						
TC 50 - D. 16 FISSO / H 200	8371						
TC 50 - D. 22 FISSO / H 45	4662	22	19	48	48	4986	4563
TC 50 - D. 22 FISSO / H 100	5544						
TC 50 - D. 22 FISSO / H 130	9406						
TC 50 - D. 22 FISSO / H 160	5545						
TC 50 - D. 22 FISSO / H 200	8372						
TC 50 - D. 22 FISSO / H 250	8373						
TC 50 - D. 22 FISSO / H 300	8374						
TC 50 - D. 27 FISSO / H 45	4663	27	21	58	58	4987	4564
TC 50 - D. 27 FISSO / H 100	5546						
TC 50 - D. 27 FISSO / H 130	9407						
TC 50 - D. 27 FISSO / H 160	5547						
TC 50 - D. 27 FISSO / H 200	8375						
TC 50 - D. 27 FISSO / H 250	8376						
TC 50 - D. 27 FISSO / H 300	8377						
TC 50 - D. 32 FISSO / H 50	4664	32	24	78	78	4988	4565
TC 50 - D. 32 FISSO / H 100	5548						
TC 50 - D. 32 FISSO / H 130	9408						
TC 50 - D. 32 FISSO / H 160	5549						
TC 50 - D. 32 FISSO / H 200	8378						
TC 50 - D. 32 FISSO / H 250	8379						
TC 50 - D. 32 FISSO / H 300	8380						
TC 50 - D. 40 FISSO / H 55	4665	40	27	88	88	4989	4566
TC 50 - D. 40 FISSO / H 100	5550						
TC 50 - D. 40 FISSO / H 160	8381						
TC 50 - D. 40 FISSO / H 200	8382						

Balanced G 6,3
8.000 rpm

FORMA
B



TIPO	Art.	D	L	E	E1		
TCB 40 - D.16 FISSO/H 45	5844	16	17	38	38	4985	4562
TCB 40 - D.16 FISSO/H 100	5845						
TCB 40 - D.16 FISSO/H 130	9410						
TCB 40 - D.16 FISSO/H 160	8385						
TCB 40 - D.16 FISSO/H 200	8386						
TCB 40 - D.22 FISSO/H 45	5846	22	19	46	48	4986	4563
TCB 40 - D.22 FISSO/H 100	5847						
TCB 40 - D.22 FISSO/H 130	9411						
TCB 40 - D.22 FISSO/H 160	8387						
TCB 40 - D.22 FISSO/H 200	8388						
TCB 40 - D.27 FISSO/H 50	5848	27	21	48	58	4987	4564
TCB 40 - D.27 FISSO/H 100	5849						
TCB 40 - D.27 FISSO/H 130	9412						
TCB 40 - D.27 FISSO/H 160	8389						
TCB 40 - D.27 FISSO/H 200	8390						
TCB 40 - D.32 FISSO/H 55	5850	32	24	58	78	4988	4565
TCB 40 - D.32 FISSO/H 100	5851						
TCB 40 - D.32 FISSO/H 160	8391						
TCB 40 - D.40 FISSO/H 55	5852	40	27	70	88	4989	4566
TCB 40 - D.40 FISSO/H 100	8392						
TCB 40 - D.40 FISSO/H 160	8393						
TCB 50 - D.16 FISSO/H 45	5853	16	17	38	38	4985	4562
TCB 50 - D.16 FISSO/H 100	5854						
TCB 50 - D.16 FISSO/H 130	9415						
TCB 50 - D.16 FISSO/H 160	8394						
TCB 50 - D.16 FISSO/H 200	8395						
TCB 50 - D.22 FISSO/H 45	5855	22	19	46	48	4986	4563
TCB 50 - D.22 FISSO/H 100	5856						
TCB 50 - D.22 FISSO/H 130	9416						
TCB 50 - D.22 FISSO/H 160	8396						
TCB 50 - D.22 FISSO/H 200	8397						
TCB 50 - D.22 FISSO/H 250	8398						
TCB 50 - D.22 FISSO/H 300	8399						
TCB 50 - D.27 FISSO/H 45	5857	27	21	55	78	4987	4564
TCB 50 - D.27 FISSO/H 100	5858						
TCB 50 - D.27 FISSO/H 130	9417						
TCB 50 - D.27 FISSO/H 160	8400						
TCB 50 - D.27 FISSO/H 200	8401						
TCB 50 - D.27 FISSO/H 250	8402						
TCB 50 - D.27 FISSO/H 300	8403						
TCB 50 - D.32 FISSO/H 50	5859	32	24	66	78	4988	4565
TCB 50 - D.32 FISSO/H 100	5860						
TCB 50 - D.32 FISSO/H 130	9418						
TCB 50 - D.32 FISSO/H 160	8404						
TCB 50 - D.32 FISSO/H 200	8405						
TCB 50 - D.32 FISSO/H 250	8406						
TCB 50 - D.32 FISSO/H 300	8407						
TCB 50 - D.40 FISSO/H 55	5861	40	27	70	88	4989	4566
TCB 50 - D.40 FISSO/H 100	5862						
TCB 50 - D.40 FISSO/H 160	8408						
TCB 50 - D.40 FISSO/H 200	8409						

	Tasselli - pag. 195 Dowels - page 195		Viti testa a croce - pag. 194 Cross head screws - page 194
	Viti per tassello - pag. 198 Dowel screws - page 198		Chiavi testa a croce - pag. 194 Wrenches cross head - page 194

DIN 69871

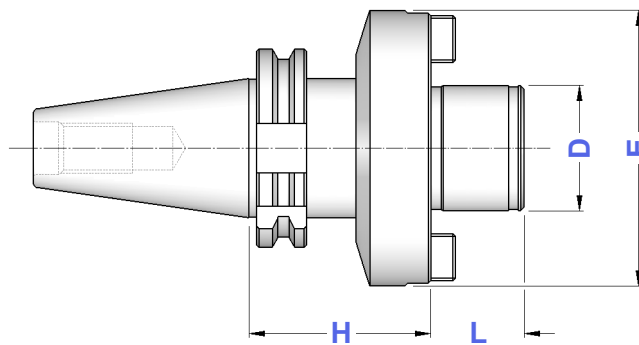
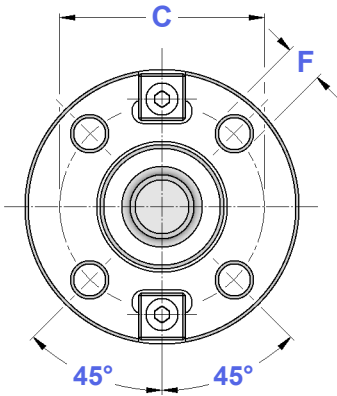
ATTACCHI PER FRESE AD INSERTI FACE MILL HOLDERS FOR FACE MILLING CUTTERS

FORMA A

Balanced G 6,3
8.000 rpm

FORMA A

TIPO	Art.	D	H	L	E	C	F
TC 40 - D. 40 FM	4181	40	60	30	89	66,7	M12
TC 50 - D. 40 FM	4184	40	70	30	89	66,7	M12
TC 50 - D. 60 FM	4185	60	70	40	129	101,6	M16






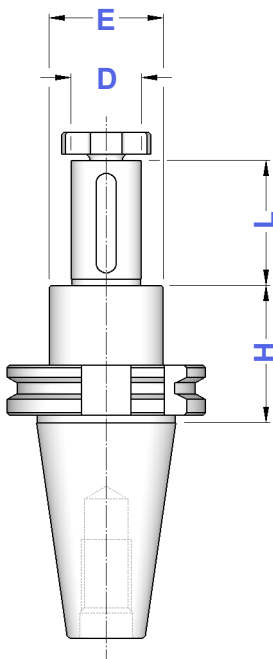
DIN 69871

PORTAFRESE CON CHIAVETTA DI TRASCINAMENTO MILL HOLDERS WITH FEATHER KEY





FORMA A

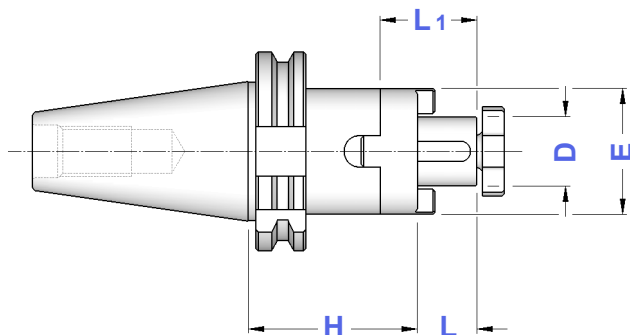
FORMA A

TIPO	Art.	D	H	L	E			
TC 40 - D. 16 CHT	8493	16	45	30	28	0147	4985	4562
TC 40 - D. 22 CHT	8494	22	45	40	36	0148	4986	4563
TC 40 - D. 27 CHT	8495	27	45	60	43	0149	4987	4564
TC 40 - D. 32 CHT	8496	32	45	60	48	0150	4988	4565
TC 40 - D. 40 CHT	8497	40	45	60	56	0151	4989	4566

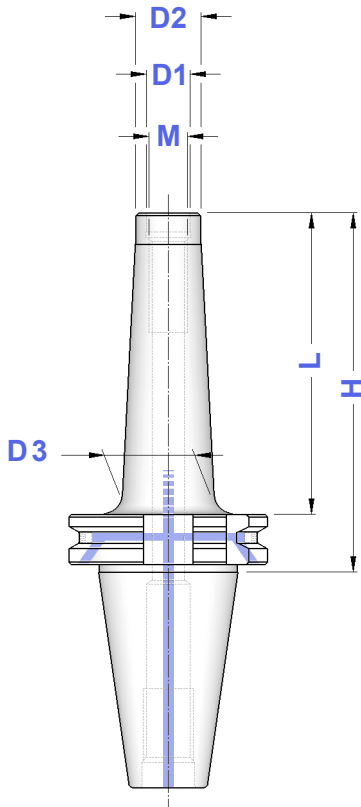


Balanced G 6,3
8.000 rpm

TIPO	FORMA A				D	L1	L	E				
	Art.											
TC 30 - D.16 C/H 50	3828	16	27	17	32	4090	0115	4985	4562			
TC 30 - D.22 C/H 50	3829	22	31	19	40	4091	0116	4986	4563			
TC 30 - D.27 C/H 55	3830	27	33	21	48	4092	0122	4987	4564			
TC 40 - D.16 C/H 55 TC 40 - D.16 C/H 100 TC 40 - D.16 C/H 150	3831 4100 8474	16	27	17	32	4090	0115	4985	4562			
TC 40 - D.22 C/H 55 TC 40 - D.22 C/H 100 TC 40 - D.22 C/H 150	3832 4101 8475	22	31	19	40	4091	0116	4986	4563			
TC 40 - D.27 C/H 55 TC 40 - D.27 C/H 100 TC 40 - D.27 C/H 150	3833 4102 8476	27	33	21	48	4092	0122	4987	4564			
TC 40 - D.32 C/H 60 TC 40 - D.32 C/H 100 TC 40 - D.32 C/H 150	3834 4103 8477	32	38	24	58	4093	0125	4988	4565			
TC 40 - D.40 C/H 60 TC 40 - D.40 C/H 100	3835 3863	40	41	27	70	4094	0133	4989	4566			
TC 45 - D.16 C/H 60	3836	16	27	17	32	4090	0115	4985	4562			
TC 45 - D.22 C/H 65 TC 45 - D.22 C/H 100	3837 4105	22	31	19	40	4091	0116	4986	4563			
TC 45 - D.27 C/H 65 TC 45 - D.27 C/H 100	3838 4106	27	33	21	48	4092	0122	4987	4564			
TC 45 - D.32 C/H 65	3839	32	38	24	58	4093	0125	4988	4565			
TC 45 - D.40 C/H 70	3840	40	41	27	70	4094	0133	4989	4566			
TC 50 - D.16 C/H 55 TC 50 - D.16 C/H 100	3841 4108	16	27	17	32	4090	0115	4985	4562			
TC 50 - D.22 C/H 55 TC 50 - D.22 C/H 100	3842 4109	22	31	19	40	4091	0116	4986	4563			
TC 50 - D.27 C/H 55 TC 50 - D.27 C/H 100	3843 4110	27	33	21	48	4092	0122	4987	4564			
TC 50 - D.32 C/H 55 TC 50 - D.32 C/H 100	3844 4111	32	38	24	58	4093	0125	4988	4565			
TC 50 - D.40 C/H 55 TC 50 - D.40 C/H 100	3845 4112	40	41	27	70	4094	0133	4989	4566			
TC 50 - D.50 C/H 70	4522	50	46	30	90	4095	0137	4990	4567			



Balanced G 6,3
12.000 rpm

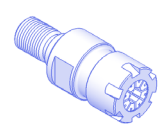
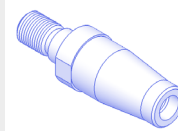
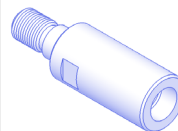


FORMA
B

TIPO	Art.	M	D1	D2	D3	H	L
TC 40 - M 6/H 55	7767	M 6	6,5	10	13	55	36
TC 40 - M 6/H 69	7768						
TC 40 - M 6/H 94	7769						
TC 40 - M 8/H 55	7800	M 8	8,5	13	15	55	36
TC 40 - M 8/H 69	7801						
TC 40 - M 8/H 94	7802						
TC 40 - M 8/H 119	7803						
TC 40 - M 10/H 55	7804	M 10	10,5	18	20	55	36
TC 40 - M 10/H 69	7805						
TC 40 - M 10/H 94	7806						
TC 40 - M 10/H 119	7807						
TC 40 - M 10/H 145	7808						
TC 40 - M 12/H 55	7809	M 12	12,5	21	24	55	36
TC 40 - M 12/H 69	7810						
TC 40 - M 12/H 94	7811						
TC 40 - M 12/H 119	7812						
TC 40 - M 12/H 145	7813						
TC 40 - M 12/H 175	7814						
TC 40 - M 16/H 55	7815	M 16	17,0	29	32	55	36
TC 40 - M 16/H 69	7816						
TC 40 - M 16/H 94	7817						
TC 40 - M 16/H 119	7818						
TC 40 - M 16/H 145	7819						
TC 40 - M 16/H 175	7820						
TC 40 - M 16/H 195	7999						
TC 50 - M 10/H 69	8713	M 10	10,5	18	19,5	69	50
TC 50 - M 10/H 119	8714						
TC 50 - M 10/H 169	8715						
TC 50 - M 12/H 69	7821	M 12	12,5	21	24	69	50
TC 50 - M 12/H 119	7822						
TC 50 - M 12/H 169	7823						
TC 50 - M 12/H 235	8716						
TC 50 - M 16/H 69	7824	M 16	17,0	29	34	69	50
TC 50 - M 16/H 119	7825						
TC 50 - M 16/H 169	7826						
TC 50 - M 16/H 235	8717						

Prolunghe, Riduzioni, Portapinze ER con attacco filettato a pag. 43 del Catalogo Generale

Extensions, Reductions, ER Collet Chucks with threaded shank from page 43 on General Catalogue



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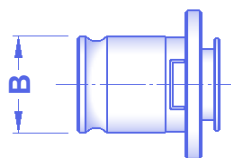
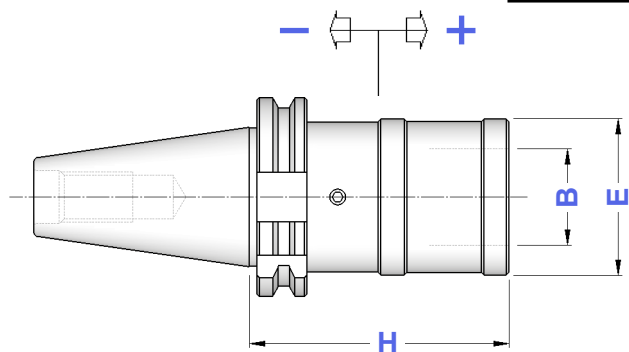
**MASCHIATORI A CAMBIO RAPIDO CON
DOPPIA COMPENSAZIONE**
DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS

FORMA A**FORMA
A**

TIPO	Art.	H	E	B	COMPENSAZIONE	
TC 30 - B.1	2995	74	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TC 30 - B.2	2996	98	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
TC 40 - B.1	3377	60	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TC 40 - B.2	3378	98	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
TC 40 - B.3	3379	138	79	48	- 20,0 + 20,0	M 14 ÷ M 33 (*M48)
TC 45 - B.1	3380	60	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TC 45 - B.2	3381	84	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
TC 50 - B.1	4151	60	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
TC 50 - B.2	3383	83	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
TC 50 - B.3	3384	133	79	48	- 20,0 + 20,0	M 14 ÷ M 33 (*M48)



* Bussole con grani
Adapters with screws



Bussole a maschiare
Tap Adapters
Pag. 172 - 175

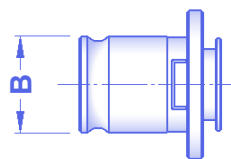
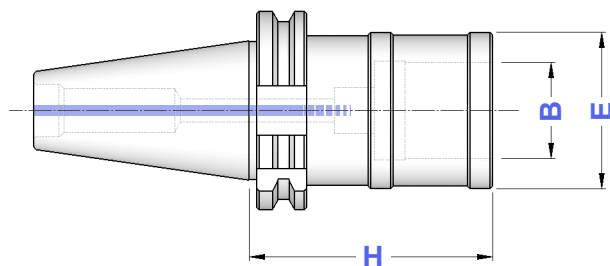
DIN 69871

**MASCHIATORI A CAMBIO RAPIDO
SENZA COMPENSAZIONE**
QUICK CHANGE TAP HOLDERS WITHOUT COMPENSATION

FORMA A (AD)**FORMA
A**

TIPO	Art.	H	E	B	
TC 30 - B.1 FISSO	4946	72	33	19	M 3 ÷ M 12 (*M16)
TC 30 - B.2 FISSO	4947	91	50	31	M 6 ÷ M 20 (*M30)
TC 40 - B.1 FISSO	4948	59	33	19	M 3 ÷ M 12 (*M16)
TC 40 - B.2 FISSO	4949	86	50	31	M 6 ÷ M 20 (*M30)
TC 40 - B.3 FISSO	4991	122	72	48	M 14 ÷ M 33 (*M48)
TC 50 - B.1 FISSO	3062	75	33	19	M 3 ÷ M 12 (*M16)
TC 50 - B.2 FISSO	4950	98	50	31	M 6 ÷ M 20 (*M30)
TC 50 - B.3 FISSO	4992	122	72	48	M 14 ÷ M 33 (*M48)

* Bussole con grani
Adapters with screws



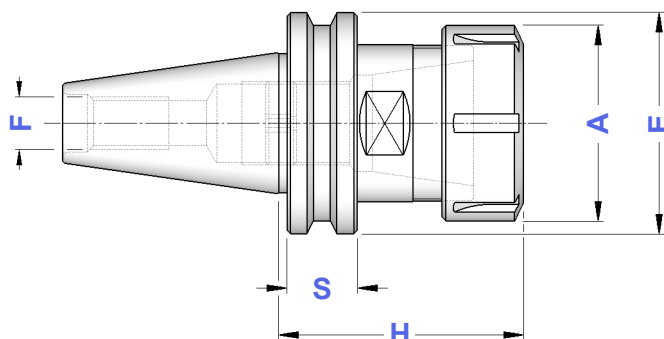
Bussole a maschiare
Tap Adapters
Pag. 172 - 175

I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

MANDRINI CON FLANGIA SENZA TACCHE di TRASCINAMENTO PORTAPINZE ER - GHIERA STANDARD

SPINDLES WITHOUT LUGS ON THE FLANGE ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT

Balanced	G 6,3
ISO 30	24.000 rpm
ISO 40	20.000 rpm



ROTAZIONE DESTRA RIGHT SPIN

FLANGIA	ROTAZIONE DESTRA RIGHT SPIN												
	TIPO	Art.	H	A	E	S	F	CAPACITA'					
Ø 46	ISO 30 AV - ER 32/ H 60	2545 DX	60	50	46,00	15,9	M 12	2 ÷ 20	4996	3670	0988	0559	
	ISO 30 AV - ER 40/ H 65	2546 DX	65	63	46,00	15,9	M 12	3 ÷ 30	4997	3671	0821	0561	
Ø 50	ISO 30 AV - ER 32/ H 50	2519 DX	50	50	50,00	15,9	M 12	2 ÷ 20	4996	3670	0988	0559	
	ISO 30 AV - ER 32/ H 68	2520 DX	68	50	50,00	15,9	M 12	2 ÷ 20	4996	3670	0988	0559	
	ISO 30 AV - ER 40/ H 57	2562 DX	57	63	50,00	15,9	M 12	3 ÷ 30	4997	3671	0821	0561	
Ø 58	ISO 30 AV - ER 40/ H 68	2563 DX	68	63	50,00	15,9	M 12	3 ÷ 30	4997	3671	0821	0561	
	ISO 30 AV - ER 32/ H 63	2522 DX	63	50	58,00	15,9	M 12	2 ÷ 20	4996	3670	0988	0559	
Ø 58	ISO 30 AV - ER 40/ H 65	2564 DX	65	63	58,00	15,9	M 12	3 ÷ 30	4997	3671	0821	0561	
	ISO 40 AV - ER 32/ H 63	2567 DX	63	50	58,00	15,9	M 16	2 ÷ 20	4996	3670	0988	0559	
Ø 63,55	ISO 40 AV - ER 40/ H 65	2523 DX	65	63	58,00	15,9	M 16	3 ÷ 30	4997	3671	0821	0561	
	ISO 40 AV - ER 32/ H 68	2568 DX	68	50	63,55	15,9	M 16	2 ÷ 20	4996	3670	0988	0559	
Ø 63,55	ISO 40 AV - ER 40/ H 72	2521 DX	68	63	63,55	15,9	M 16	3 ÷ 30	4997	3671	0821	0561	

ROTAZIONE SINISTRA LEFT SPIN

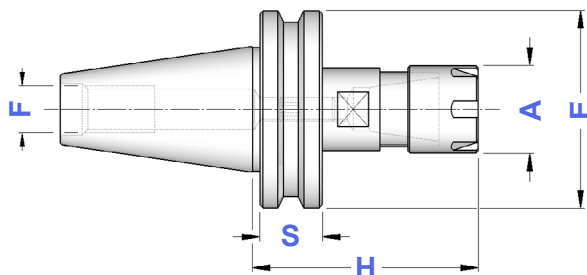
FLANGIA	ROTAZIONE SINISTRA LEFT SPIN												
	TIPO	Art.	H	A	E	S	F	CAPACITA'					
Ø 46	ISO 30 AV - ER 32/ H 60	2545 SX	60	50	46,00	15,9	M 12	2 ÷ 20	3074	3670	0988	0560	
	ISO 30 AV - ER 40/ H 65	2546 SX	65	63	46,00	15,9	M 12	3 ÷ 30	3075	3671	0821	0580	
Ø 50	ISO 30 AV - ER 32/ H 50	2519 SX	50	50	50,00	15,9	M 12	2 ÷ 20	3074	3670	0988	0560	
	ISO 30 AV - ER 32/ H 68	2520 SX	68	50	50,00	15,9	M 12	2 ÷ 20	3074	3670	0988	0560	
	ISO 30 AV - ER 40/ H 57	2562 SX	57	63	50,00	15,9	M 12	3 ÷ 30	3075	3671	0821	0580	
Ø 58	ISO 30 AV - ER 40/ H 68	2563 SX	68	63	50,00	15,9	M 12	3 ÷ 30	3075	3671	0821	0580	
	ISO 30 AV - ER 32/ H 63	2522 SX	63	50	58,00	15,9	M 12	2 ÷ 20	3074	3670	0988	0560	
Ø 58	ISO 30 AV - ER 40/ H 65	2564 SX	65	63	58,00	15,9	M 12	3 ÷ 30	3075	3671	0821	0580	




MANDRINI CON FLANGIA SENZA TACCHE di TRASCINAMENTO

PORTAPINZE ER - GHIERA MINI

SPINDLES WITHOUT LUGS ON THE FLANGE ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

Balanced	G 6,3
ISO 20	40.000 rpm
ISO 30	24.000 rpm






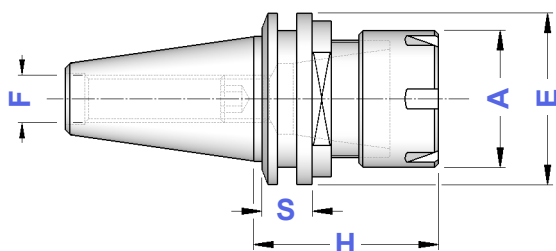
TIPO	Art.	H	A	E	S	F	CAPACITA'			
ISO 20 AV - ER 16 GM/H 49	2571	49	22	30	15,9	M 8	1 ÷ 10	1229	5719	0364
ISO 30 AV - ER 16 GM/H 60	4153	60	22	50	15,9	M 12	1 ÷ 10	1229	5719	0364
ISO 30 AV - ER 20 GM/H 53	4171	53	28	50	15,9	M 12	1 ÷ 13	1230	5720	0787

MECCANICA CORTINI

PORTAPINZE ER - GHIERA MINI

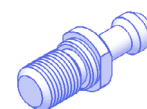
ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

TIPO	Art.	H	A	E	S	F	CAPACITA'			
ISO 30 CORTINI - ER 25 GM	3523	48	35	44	13	M 12	1 ÷ 16	1231	5721	0996



Codolo art. 0064
sul Catalogo Generale
pag. 184




Pull stud art. 0064
on General Catalogue
page 184

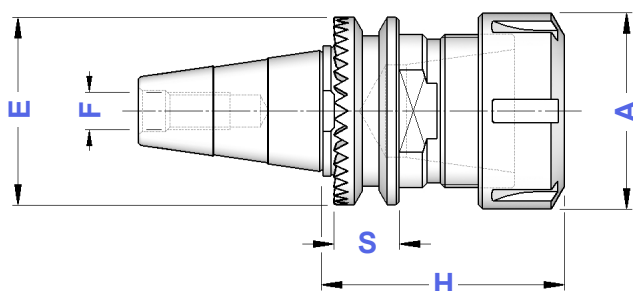


SCM MORBIDELLI

PORTAPINZE ER/EOC - GHIERA STANDARD

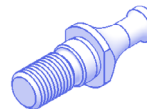
ER - DIN 6499/EOC COLLET CHUCKS WITH STANDARD NUT

TIPO	Art.	H	A	E	S	F	CAPACITA'			
ISO 30 SCM/MORBIDELLI - ER 32	2116	55	50	49	17	M 10	2 ÷ 20	4996	3670	0988
ISO 30 SCM/MORBIDELLI - ER 40	2117	74	63	49	17	M 10	3 ÷ 30	4997	3671	0821
ISO 30 SCM/MORBIDELLI - EOC 25	2118	70	60	49	17	M 10	2 ÷ 25	4068	2909	0769

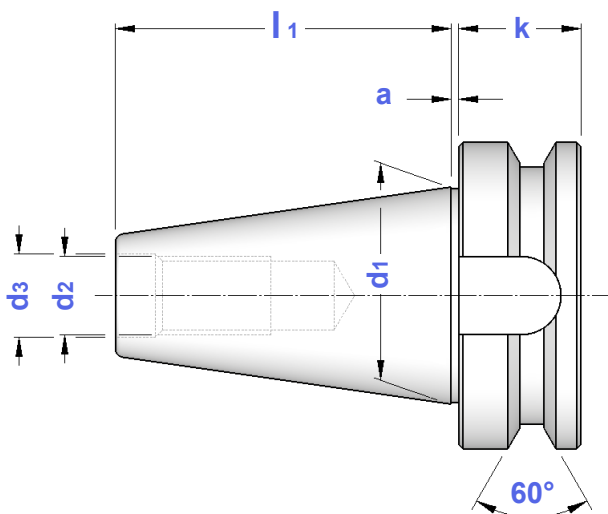


Codolo art. 3358
sul Catalogo Generale
pag. 185

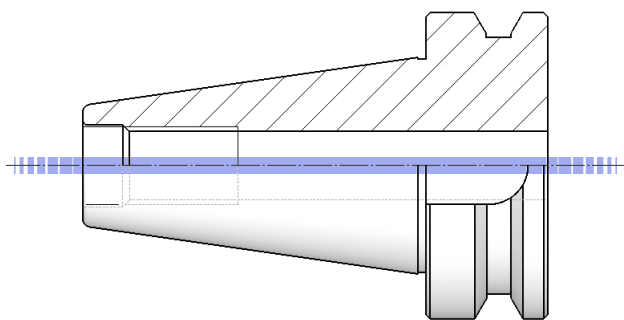
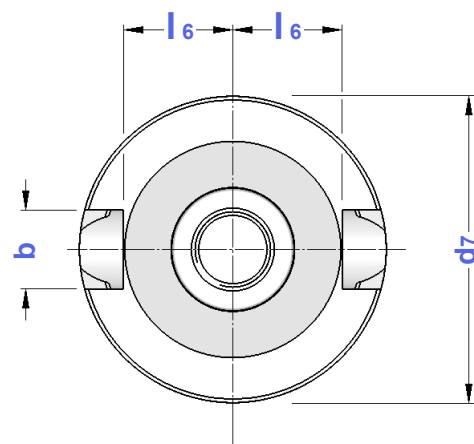
Pull stud art. 3358
on General Catalogue
page 185



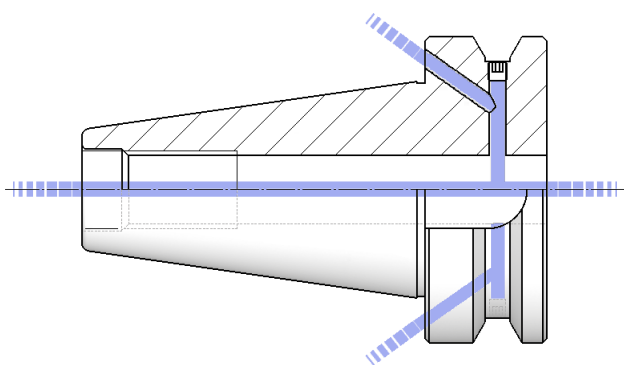
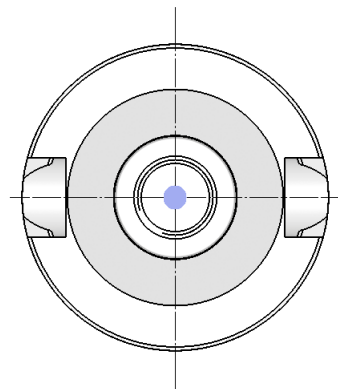
CARATTERISTICHE TECNICHE CONI BT (JIS-B 6339/MAS 403 BT)
BT TAPER STANDARD FEATURES



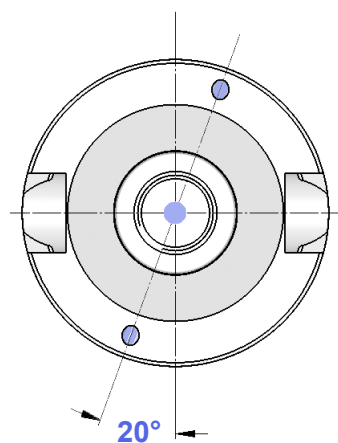
**FORMA
A**



**FORMA
AD**

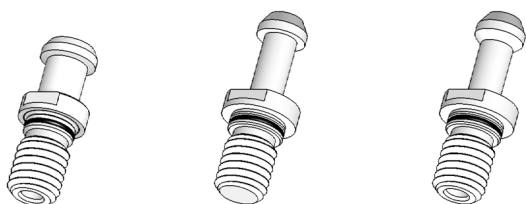


**FORMA
AD+B**



CONO	a	b	d1	d2	d3	d7	k	l1	l6	PRECISIONE
BT 30	2	16,1	31,75	M 12	12,5	46	20	48,4	16,3	
BT 35 /1	2	14,1	38,10	M 12	12,5	53	20	56,4	19,6	
BT 35 /2	2	16,1	38,10	M 12	12,5	53	22	56,4	19,6	
BT 40	2	16,1	44,45	M 16	17,0	63	25	65,4	22,6	
BT 45	3	19,3	57,15	M 20	21,0	85	30	82,8	29,1	
BT 50	3	25,7	69,85	M 24	25,0	100	35	101,8	35,4	

CODOLI DI AGGANCIO PULL STUD BOLTS



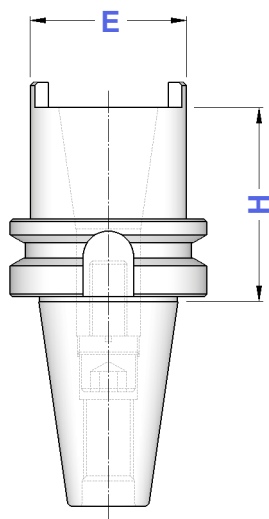
Codoli di aggancio da pag. 176 a pag. 185
del Catalogo Generale





*Pull stud bolts on General Catalogue
from page 176 to page 185*

BT

RIDUZIONI DA BT A ISO/TC/BT
BT TO ISO/TC/BT ADAPTERS

FORMA A

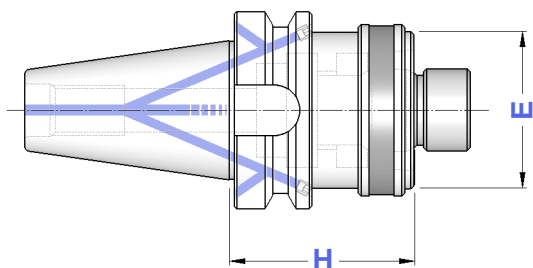


TIPO	FORMA A	H	E				
	Art.						
BT 40 - ISO 30/TC 30/BT 30	4180	63	50	7423	7410	0177	4570
BT 40 - ISO 40/TC 40/BT 40	8707	100	68	7424	7411	0179	4571
BT 50 - ISO 40/TC 40/BT 40	4273	70	68	7424	7411	0179	4571
BT 50 - ISO 50/TC 50/BT 50	8708	120	100	7426	7417	0254	4780

BT

RIDUZIONI DA BT AD HSK A+C
BT TO HSK A+C ADAPTERS

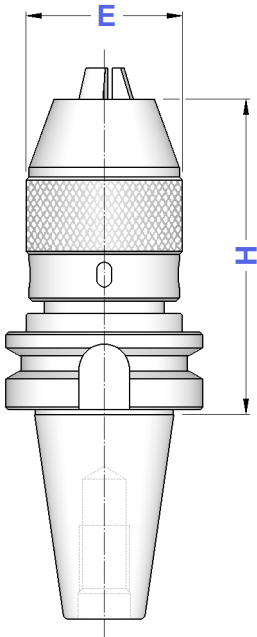
FORMA B (AD+B)



TIPO	FORMA B	H	E
	Art.		
BT 40 - HSK 50 A+C	8709	60	50
BT 40 - HSK 63 A+C	8710	80	63
BT 50 - HSK 63 A+C	8712	70	63

BT	MANDRINI AUTOSERRANTI INTEGRALI ROTAZIONE DESTRA MONOLITHIC DRILL CHUCKS - RIGHT SPIN	FORMA A

Balanced G 6,3
12.000 rpm

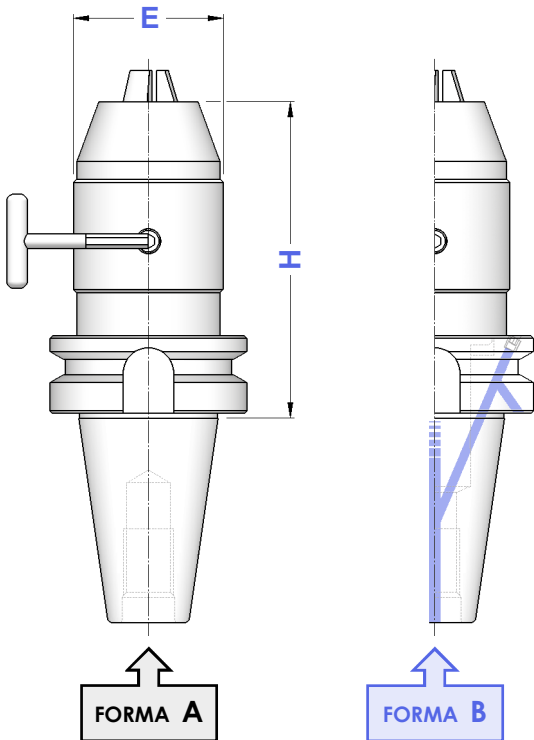


TIPO	FORMA A		CAPACITA'	E	H			
	Art.							
BT 30 - DC 13	8593		1 ÷ 13	50	100	9016	9021	2370
BT 40 - DC 13	4392		1 ÷ 13	50	95	9016	9021	2370
BT 40 - DC 16	4393		3 ÷ 16	57	116	9017	9023	2371
BT 50 - DC 13	4394		1 ÷ 13	50	110	9016	9021	2370
BT 50 - DC 16	4395		3 ÷ 16	57	110	9017	9023	2371

Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

BT	MANDRINI AUTOSERRANTI INTEGRALI ROTAZIONE DESTRA E SINISTRA MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN	FORMA A
		FORMA B (AD+B)

Balanced G 6,3
12.000 rpm

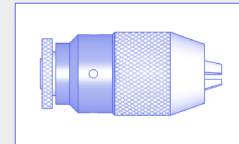
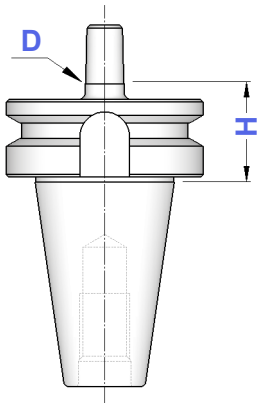
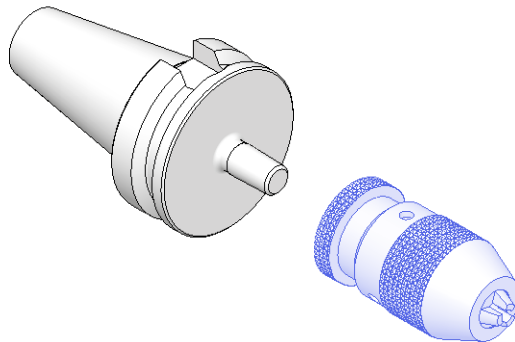






TIPO	FORMA A	FORMA B	CAPACITA'	E	H	
	Art.	Art.				
BT 30 - DCU 13	8594	—	1 ÷ 13	50	110	2372
BT 40 - DCU 13	8595	8599	1 ÷ 13	50	98	2372
BT 40 - DCU 16	8596	8600	3 ÷ 16	50	103	
BT 50 - DCU 13	8597	8601	1 ÷ 13	50	109	2372
BT 50 - DCU 16	8598	8602	3 ÷ 16	50	114	

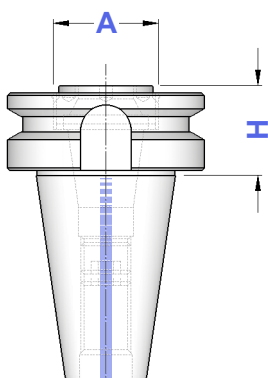
Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

BT**ATTACCHI PER MANDRINI PORTAPUNTA DIN 238**
SHANKS FOR DRILL CHUCKS DIN 238 TYPE**FORMA A**Balanced G 6,3
8.000 rpm**FORMA A**

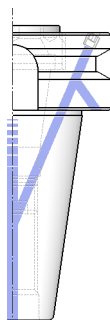
TIPO	Art.	D	H
BT 30 - B 12	3862	12,065	40
BT 30 - B 16	3994	15,733	40
BT 40 - B 12	3865	12,065	40
BT 40 - B 16	3866	15,733	40
BT 40 - B 18	3995	17,780	40
BT 50 - B 16	3996	15,733	50
BT 50 - B 18	3997	17,780	50

I Mandrini Autoserranti
si trovano a pagina 69.Keyless Drill Chucks
you can find at page 69.**BT****PORTAPINZA ER EXTRACORTI**
ER - DIN 6499 COLLET CHUCKS WITH INSIDE NUT**FORMA A (AD)****FORMA B (AD+B)**Balanced G 6,3
12.000 rpm

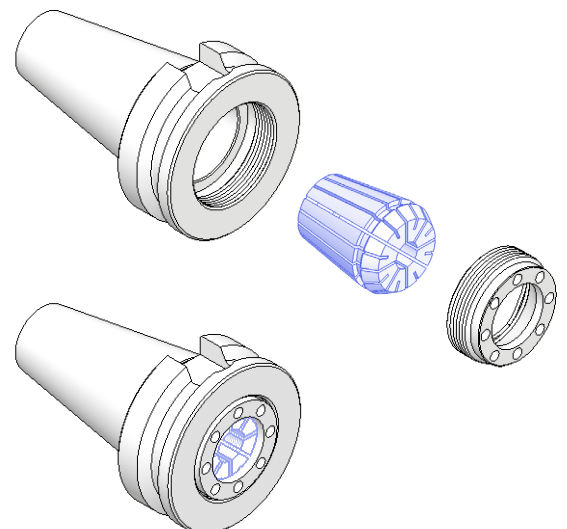
TIPO	FORMA A	FORMA B	H	A	CAPACITA'				
	Art.	Art.							
BT 40 - ER 25 GA	8041	8042	29	M 32 x1,5	1 ÷ 16	0073	2870	3172	0996
BT 40 - ER 32 GA	3067	—	29	M 40 x1,5	2 ÷ 20	0073	2871	3173	0988
BT 50 - ER 32 GA	3068	8043	40	M 40 x1,5	2 ÷ 20	0191	2871	3173	0988



FORMA A

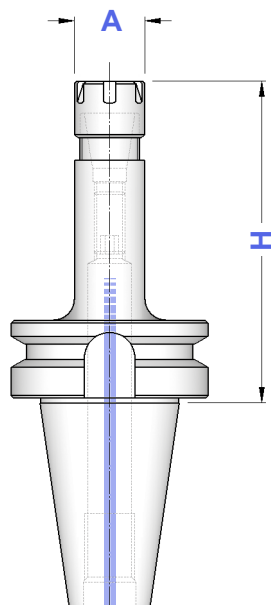
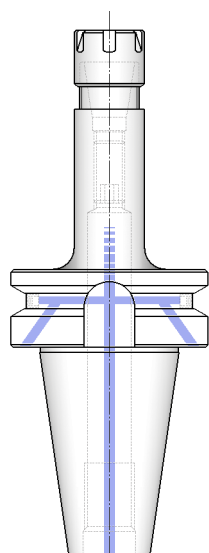


FORMA B



BT**PORTAPINZE ER - GHIERA MINI**
ER - DIN 6499 COLLET CHUCKS WITH MINI NUT**FORMA A (AD)****FORMA B (AD+B)**

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

**FORMA A****FORMA B**

TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
BT 30 - ER 11 GM /H 80	3329	—	16	1 ÷ 7	0181	0432	5718	5573
BT 30 - ER 16 GM /H 80	3039	—	22	1 ÷ 10	0183	1229	5719	0364
BT 30 - ER 16 GM /H 120	3454	—						
BT 40 - ER 11 GM /H 70	3271	4855	16	1 ÷ 7	0181	0432	5718	5573
BT 40 - ER 11 GM /H 100	3174	4856						
BT 40 - ER 11 GM /H 130	3272	4857						
BT 40 - ER 11 GM /H 160	4687	4858						
BT 40 - ER 16 GM /H 70	3455	4859	22	1 ÷ 10	0186	1229	5719	0364
BT 40 - ER 16 GM /H 100	3456	4860						
BT 40 - ER 16 GM /H 130	3457	4861						
BT 40 - ER 16 GM /H 160	4688	4862						
BT 40 - ER 16 GM /H 200	4781	4812						
BT 40 - ER 20 GM /H 70	3041	4501						
BT 40 - ER 20 GM /H 100	3461	4863						
BT 40 - ER 20 GM /H 130	3458	4864						
BT 40 - ER 20 GM /H 160	4689	4865						
BT 40 - ER 20 GM /H 200	4782	4813						
BT 40 - ER 25 GM /H 70	3043	4656	35	1 ÷ 16	0190	1231	5721	0996
BT 40 - ER 25 GM /H 100	3175	4866						
BT 40 - ER 25 GM /H 130	4690	4867						
BT 40 - ER 25 GM /H 160	3459	4868						
BT 40 - ER 25 GM /H 200	3460	4814						
BT 50 - ER 16 GM /H 130	3463	4869	22	1 ÷ 10	0186	1229	5719	0364
BT 50 - ER 16 GM /H 160	3494	4833						
BT 50 - ER 16 GM /H 200	3495	4834						
BT 50 - ER 20 GM /H 130	3464	4870	28	1 ÷ 13	0188	1230	5720	0787
BT 50 - ER 20 GM /H 160	3045	4657						
BT 50 - ER 20 GM /H 200	3048	4658						
BT 50 - ER 25 GM /H 130	3051	4659	35	1 ÷ 16	0190	1231	5721	0996
BT 50 - ER 25 GM /H 160	3462	4871						
BT 50 - ER 25 GM /H 200	3061	4660						

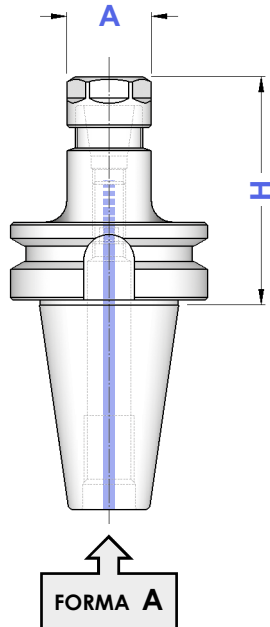
Dove trovare questi Articoli





Where to find those Items

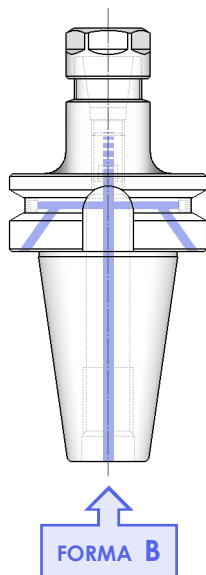
	Pinze ER - da pag. 8 ER Collets - from page 8
	Ghiere ER - da pag. 20 ER Nuts - from page 20
	Chiavi ER - pag. 25 ER Wrenches - page 25
	Grani di preassetto da pag. 197 Presetting screws from page 197

BT**PORTAPINZE ER - GHIERA ESAGONALE**
ER - DIN 6499 COLLET CHUCKS WITH HEXAGONAL NUT**FORMA A (AD)****FORMA B (AD+B)**

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm



TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
BT 30 - ER 16 GE/H 55 BT 30 - ER 16 GE/H100	8084 8085	---	28	1 ÷ 10	0183	1214	2906	0364
BT 30 - ER 20 GE/H 55 BT 30 - ER 20 GE/H100	8086 8087	---	34	1 ÷ 13	0183	1215	2907	0787
BT 40 - ER 11 GE/H 70 BT 40 - ER 11 GE/H100 BT 40 - ER 11 GE/H130 BT 40 - ER 11 GE/H160	3447 3448 3449 3450	4843 4844 4845 4846	19	1 ÷ 7	0181	1157	2905	5573
BT 40 - ER 16 GE/H 70 BT 40 - ER 16 GE/H100 BT 40 - ER 16 GE/H130 BT 40 - ER 16 GE/H160 BT 40 - ER 16 GE/H200	8088 8089 8090 8091 8092	8104 8105 8106 8107 8108	28	1 ÷ 10	0186	1214	2906	0364
BT 40 - ER 20 GE/H 70 BT 40 - ER 20 GE/H100 BT 40 - ER 20 GE/H130 BT 40 - ER 20 GE/H160 BT 40 - ER 20 GE/H200	8093 8094 8095 8096 8097	8109 8110 8111 8112 8113	34	1 ÷ 13	0188	1215	2907	0787
BT 50 - ER 16 GE/H100 BT 50 - ER 16 GE/H160 BT 50 - ER 16 GE/H200	8098 8099 8100	8114 8115 8116	28	1 ÷ 10	0186	1214	2906	0364
BT 50 - ER 20 GE/H100 BT 50 - ER 20 GE/H160 BT 50 - ER 20 GE/H200	8101 8102 8103	8117 8118 8119	34	1 ÷ 13	0188	1215	2907	0787

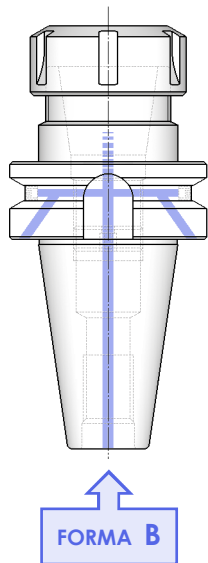
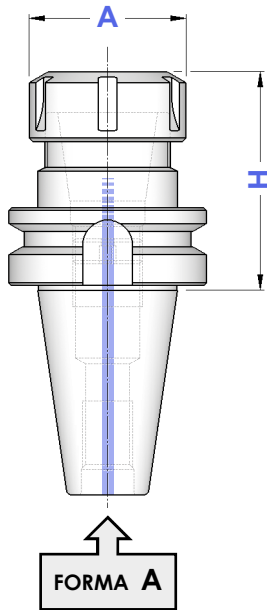
**Dove trovare questi Articoli**





Where to find those Items

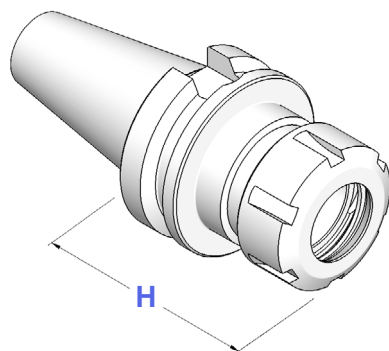
	Pinze ER - da pag. 8 ER Collets - from page 8
	Ghiere ER - pag. 20 ER Nuts - page 20
	Chiavi ER - pag. 25 ER Wrenches - page 25
	Grani di presettaggio da pag. 197 Presetting screws from page 197

BT**PORTAPINZE ER - GHIERA STANDARD**
ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT**FORMA A (AD)****FORMA B (AD+B)**

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm



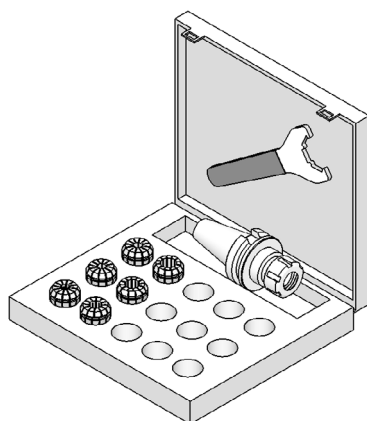
TIPO	FORMA	FORMA	A	CAPACITA'				
	A	B						
BT 30 - ER16/H 55	3465	---	32	1 ÷ 10	0183	4993	3698	0364
BT 30 - ER16/H 100	3438	---						
BT 30 - ER20/H 55	3274	---	35	1 ÷ 13	0183	4994	3699	0787
BT 30 - ER20/H 100	3439	---						
BT 30 - ER25/H 55	3250	---	42	1 ÷ 16	0190	4995	3669	0996
BT 30 - ER25/H 100	3267	---						
BT 30 - ER32/H 60	3251	---	50	2 ÷ 20	0190	4996	3670	0988
BT 30 - ER32/H 100	3252	---						
BT 40 - ER16/H 70	3468	4872	32	1 ÷ 10	0186	4993	3698	0364
BT 40 - ER16/H 100	3469	4873						
BT 40 - ER16/H 130	3497	4847						
BT 40 - ER16/H 160	3470	4874						
BT 40 - ER16/H 200	3498	4852						
BT 40 - ER20/H 70	3257	4875	35	1 ÷ 13	0188	4994	3699	0787
BT 40 - ER20/H 100	3580	4876						
BT 40 - ER20/H 130	3113	4853						
BT 40 - ER20/H 160	3114	4877						
BT 40 - ER20/H 200	3499	4854						
BT 40 - ER25/H 70	3258	4878	42	1 ÷ 16	0190	4995	3669	0996
BT 40 - ER25/H 100	0336	4879						
BT 40 - ER25/H 130	0337	4880						
BT 40 - ER25/H 160	3115	4881						
BT 40 - ER25/H 200	3183	4811						
BT 40 - ER32/H 70	3184	4882	50	2 ÷ 20	0191	4996	3670	0988
BT 40 - ER32/H 100	3259	4883						
BT 40 - ER32/H 130	3116	4884						
BT 40 - ER32/H 160	3260	4885						
BT 40 - ER32/H 200	3117	4886						
BT 40 - ER40/H 70	3261	4887	63	3 ÷ 30	0195	4997	3671	0821
BT 40 - ER40/H 100	3262	4888						
BT 40 - ER40/H 130	3263	4889						
BT 40 - ER40/H 160	3264	4890						
BT 40 - ER40/H 200	3118	4891						
BT 40 - ER50/H 85	3265	4931	78	6 ÷ 34	0191	4998	3668	4055
BT 50 - ER16/H 100	3474	4892	32	1 ÷ 10	0186	4993	3698	0364
BT 50 - ER16/H 160	3475	4893						
BT 50 - ER16/H 200	3488	4957						
BT 50 - ER20/H 100	3119	4894	35	1 ÷ 13	0188	4994	3699	0787
BT 50 - ER20/H 160	3120	4895						
BT 50 - ER20/H 200	3581	4958						
BT 50 - ER25/H 80	3582	4896	42	1 ÷ 16	0190	4995	3669	0996
BT 50 - ER25/H 100	3583	4897						
BT 50 - ER25/H 160	3584	4898						
BT 50 - ER25/H 200	3585	4959						
BT 50 - ER32/H 80	3275	4899	50	2 ÷ 20	0191	4996	3670	0988
BT 50 - ER32/H 100	3273	4900						
BT 50 - ER32/H 130	3276	4901						
BT 50 - ER32/H 160	3277	4902						
BT 50 - ER32/H 200	3278	4903						
BT 50 - ER32/H 250	3400	4961						
BT 50 - ER40/H 80	3279	4904	63	3 ÷ 30	0195	4997	3671	0821
BT 50 - ER40/H 100	3472	4905						
BT 50 - ER40/H 130	3280	4906						
BT 50 - ER40/H 160	3281	4907						
BT 50 - ER40/H 200	3282	4908						
BT 50 - ER50/H 100	3473	4999	78	6 ÷ 34	0195	4998	3668	4055
BT 50 - ER50/H 160	8046	8047						



CASSETTE CON SERIE RIDOTTA DI PINZE ER, MANDRINO FORMA A E CHIAVE

EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS

FORMA
A

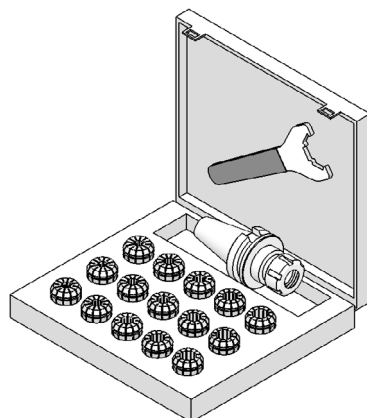


TIPO	Art.				
KIT Rid BT 30/H 55 - ER 25	7784	3250	3695	3669	0996: $\varnothing 4-6-8-10-12-16$
KIT Rid BT 30/H 60 - ER 32	7785	3251	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid BT 40/H 70 - ER 25	7786	3258	3695	3669	0996: $\varnothing 4-6-8-10-12-16$
KIT Rid BT 40/H 70 - ER 32	7787	3184	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid BT 40/H 70 - ER 40	7788	3261	3695	3671	0821: $\varnothing 4-6-8-10-12-16-20-25$
KIT Rid BT 50/H 80 - ER 32	7789	3275	3695	3670	0988: $\varnothing 4-6-8-10-12-16-20$
KIT Rid BT 50/H 80 - ER 40	7790	3279	3695	3671	0821: $\varnothing 4-6-8-10-12-16-20-25$

CASSETTE CON SERIE COMPLETA DI PINZE ER, MANDRINO FORMA A E CHIAVE

EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS

FORMA
A



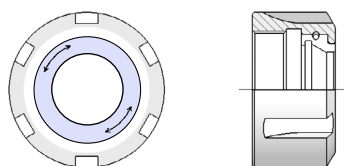
TIPO	Art.				
KIT BT 30/H 55 - ER 25	7791	3250	3695	3669	0996: $\varnothing 2 \div 16$ (15 Pinze)
KIT BT 30/H 60 - ER 32	7792	3251	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT BT 40/H 70 - ER 25	7793	3258	3695	3669	0996: $\varnothing 2 \div 16$ (15 Pinze)
KIT BT 40/H 70 - ER 32	7794	3184	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT BT 40/H 70 - ER 40	7795	3261	3695	3671	0821: $\varnothing 4 \div 26$ (23 Pinze)
KIT BT 50/H 80 - ER 32	7796	3275	3695	3670	0988: $\varnothing 3 \div 20$ (18 Pinze)
KIT BT 50/H 80 - ER 40	7797	3279	3695	3671	0821: $\varnothing 4 \div 26$ (23 Pinze)

BT**PORTAPINZE ER - GHIERA RALLA GIREVOLE**
ER - DIN 6499 COLLET CHUCKS WITH ROTARY RING NUT**FORMA A (AD)****FORMA B (AD+B)**

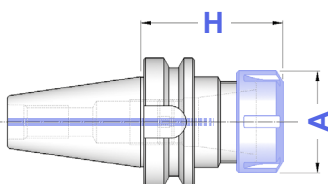
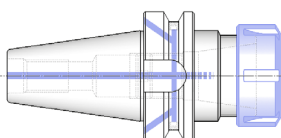
Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

GHIERA con RALLA GIREVOLE**CARATTERISTICHE E VANTAGGI**

- Aumenta sensibilmente la forza di serraggio della pinza.
- Evita la torsione della pinza riducendone l'attrito con la sua sede e conseguentemente ne preserva la precisione.
- E' intercambiabile con le normali ghiera standard ed esagonali.

**ROTARY RING NUT****CHARACTERISTICS AND ADVANTAGES**

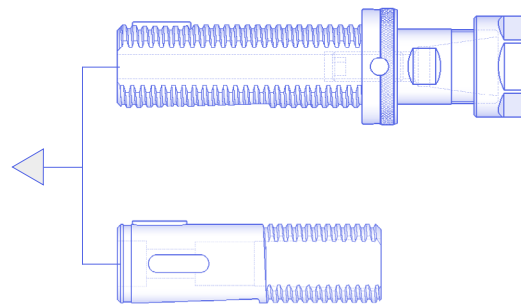
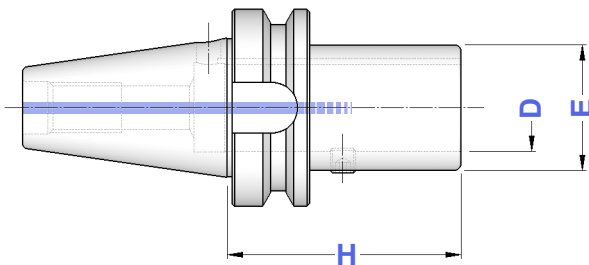
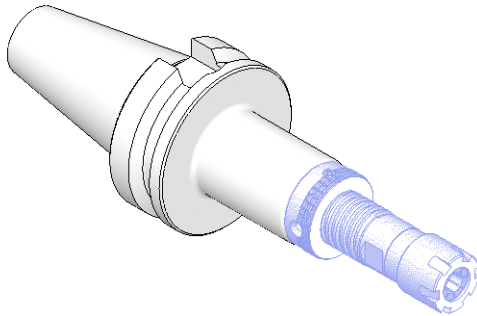
- Collet clamping force is sensitively increased.
- Avoids collet torsion reducing friction with its seat and consequently preserves its accuracy.
- Is interchangeable with standard and hexagonal nuts.

**FORMA A**
CON GHIERA GC**FORMA B**
CON GHIERA GC

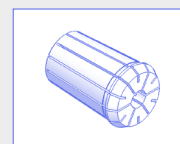
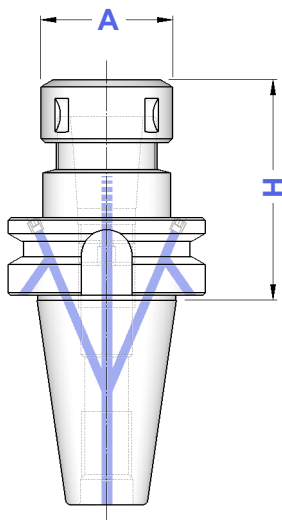
TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
BT 30 - ER 16 GC/H 55	8226	---	32	1 ÷ 10	0183	4954	3698	0364
BT 30 - ER 16 GC/H100	8227	---						
BT 30 - ER 20 GC/H 55	8228	---	35	1 ÷ 13	0183	4955	3699	0787
BT 30 - ER 20 GC/H100	8229	---						
BT 30 - ER 25 GC/H 55	8230	---	42	1 ÷ 16	0190	3697	3669	0996
BT 30 - ER 25 GC/H100	8231	---						
BT 30 - ER 32 GC/H 60	8232	---	50	2 ÷ 20	0190	2911	3670	0988
BT 30 - ER 32 GC/H100	8233	---						
BT 40 - ER 16 GC/H 70	8234	8283	32	1 ÷ 10	0186	4954	3698	0364
BT 40 - ER 16 GC/H100	8235	8284						
BT 40 - ER 16 GC/H130	8236	8285						
BT 40 - ER 16 GC/H160	8237	8286						
BT 40 - ER 16 GC/H200	8238	8287						
BT 40 - ER 20 GC/H 70	8239	8288						
BT 40 - ER 20 GC/H100	8240	8289	35	1 ÷ 13	0188	4955	3699	0787
BT 40 - ER 20 GC/H130	8241	8290						
BT 40 - ER 20 GC/H160	8242	8291						
BT 40 - ER 20 GC/H200	8243	8292						
BT 40 - ER 25 GC/H 70	8244	8293						
BT 40 - ER 25 GC/H100	8245	8294						
BT 40 - ER 25 GC/H130	8246	8295	42	1 ÷ 16	0190	3697	3669	0996
BT 40 - ER 25 GC/H160	8247	8296						
BT 40 - ER 25 GC/H200	8248	8297						
BT 40 - ER 32 GC/H 70	8249	8298						
BT 40 - ER 32 GC/H100	8250	8299						
BT 40 - ER 32 GC/H130	8251	8300						
BT 40 - ER 32 GC/H160	8252	8301	50	2 ÷ 20	0191	2911	3670	0988
BT 40 - ER 32 GC/H200	8253	8302						
BT 40 - ER 40 GC/H 70	8254	8303						
BT 40 - ER 40 GC/H100	8255	8304						
BT 40 - ER 40 GC/H130	8256	8305						
BT 40 - ER 40 GC/H160	8257	8306						
BT 40 - ER 40 GC/H200	8258	8307	63	3 ÷ 30	0195	2912	3671	0821
BT 50 - ER 16 GC/H100	8260	8309						
BT 50 - ER 16 GC/H160	8261	8310						
BT 50 - ER 16 GC/H200	8262	8311						
BT 50 - ER 20 GC/H100	8263	8312						
BT 50 - ER 20 GC/H160	8264	8313						
BT 50 - ER 20 GC/H200	8265	8314	42	1 ÷ 16	0190	3697	3669	0996
BT 50 - ER 25 GC/H 80	8266	8315						
BT 50 - ER 25 GC/H100	8267	8316						
BT 50 - ER 25 GC/H160	8268	8317						
BT 50 - ER 25 GC/H200	8269	8318						
BT 50 - ER 32 GC/H 80	8270	8319						
BT 50 - ER 32 GC/H100	8271	8320	50	2 ÷ 20	0191	2911	3670	0988
BT 50 - ER 32 GC/H130	8272	8321						
BT 50 - ER 32 GC/H160	8273	8322						
BT 50 - ER 32 GC/H200	8274	8323						
BT 50 - ER 32 GC/H250	8275	8324						
BT 50 - ER 40 GC/H 80	8276	8325						
BT 50 - ER 40 GC/H100	8277	8326	63	3 ÷ 30	0195	2912	3671	0821
BT 50 - ER 40 GC/H130	8278	8327						
BT 50 - ER 40 GC/H160	8279	8328						
BT 50 - ER 40 GC/H200	8280	8329						

BT**PORTA MANDRINI CON ATTACCO TRAPEZIO DIN 6327**
AUTOMOTIVES SHANK HOLDERS ACCORDING TO DIN 6327**FORMA A (AD)**Balanced G 6,3
8.000 rpm**FORMA A**



TIPO	Art.	D	H	E	
BT 40 - TR 28	3955	28	70	40	0021
BT 40 - TR 36	3956	36	120	50	0021
BT 50 - TR 28	3960	28	100	40	0021
BT 50 - TR 36	3961	36	100	50	0021
BT 50 - TR 48	3962	48	105	67	0060

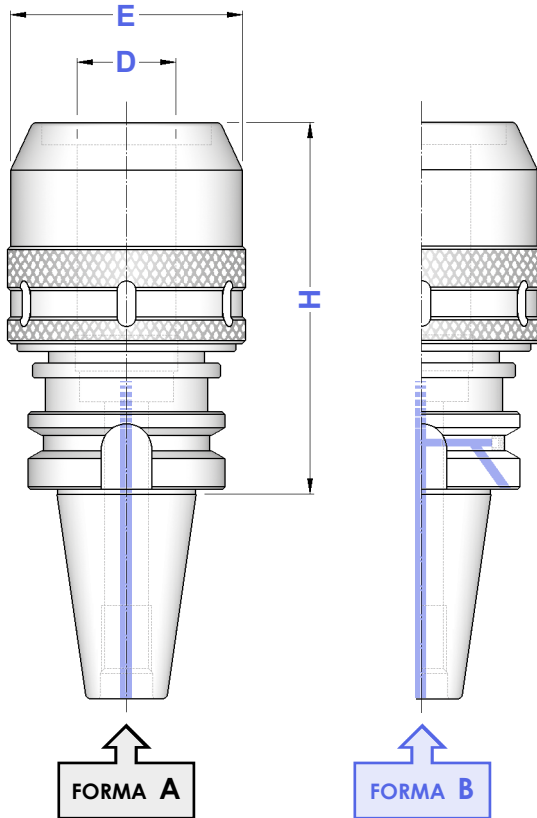
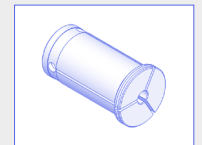
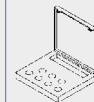
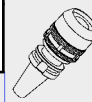
Il programma DIN 6327
si trova da pag. 46DIN 6327 program
is from page 46**BT****MANDRINI PER PINZE EOC DIN 6388**
DIN 6388 COLLET CHUCKS**FORMA B (AD+B)**Balanced G 6,3
≤ H100 12.000 rpm
> H100 8.000 rpm**FORMA B**

TIPO	Art.	A	CAPACITA'			
BT 40 - EOC 16/H 70	8726	43	2 ÷ 16	4067	2883	0768
BT 40 - EOC 16/H 100	8727					
BT 40 - EOC 16/H 130	8728					
BT 40 - EOC 25/H 70	8729	60	2 ÷ 25	4068	2909	0769
BT 40 - EOC 25/H 100	8730					
BT 40 - EOC 25/H 130	8731					
BT 40 - EOC 32/H 80	8732	72	3 ÷ 32	4069	2910	0770
BT 50 - EOC 16/H 70	8733	43	2 ÷ 16	4067	2883	0768
BT 50 - EOC 16/H 100	8734					
BT 50 - EOC 25/H 85	8735	60	2 ÷ 25	4068	2909	0769
BT 50 - EOC 25/H 100	8736					
BT 50 - EOC 25/H 130	8737					
BT 50 - EOC 32/H 90	8738	72	3 ÷ 32	4069	2910	0770
BT 50 - EOC 32/H 130	8739					

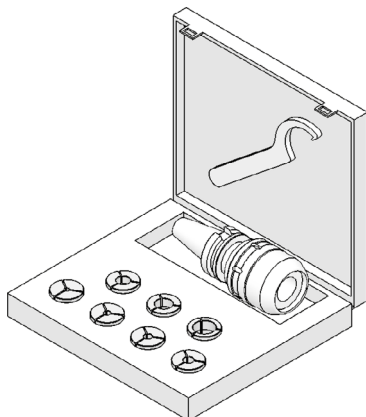
Pinze, ghiera e chiavi
EOC - DIN 6388
si trovano da pagina 28Collets, nuts and wrenches
EOC - DIN 6388 type
you can find from page 28

BT**MANDRINI A FORTE SERRAGGIO**
HIGH GRIP CHUCKS**FORMA A (AD)****FORMA B (AD+B)**Balanced G 6,3
12.000 rpm

TIPO	FORMA A	FORMA B	D	E		
	Art.	Art.				
BT 40 - PC 20 / H 80	5114	5228	20	54	2900	0809
BT 40 - PC 20 / H 105	3504	—				
BT 40 - PC 32 / H 90	5115	5229	32	74	2910	0810
BT 40 - PC 32 / H 105	3505	—				
BT 40 - PC 32 / H 135	5133	—				
BT 50 - PC 20 / H 105	3506	—	20	54	2900	0809
BT 50 - PC 32 / H 105	3507	5234				
BT 50 - PC 32 / H 135	5136	—	32	74	2910	0810

Pinze cilindriche di riduzione
per Mandrini a Forte Serraggio
a pag. 31Reduction cylindrical collets
for High Grip Chucks on page 31**CASSETTE CON MANDRINO
CHIAVE E PINZE**EQUIPMENT BOXES WITH COLLET CHUCK
WRENCH AND COLLETS**FORMA A**

TIPO	Art.	5114	3504	3695	2900	2910	0809	0810
KIT BT 40 - PC 20 / H 80	7547	5114	3504	3695	2900	2910	0809	0810
KIT BT 40 - PC 20 / H 105	7713	5114	3504	3695	2900	2910	0809	0810
KIT BT 40 - PC 32 / H 90	7548	5115	3505	3695	2910	2910	0809	0810
KIT BT 40 - PC 32 / H 105	7716	5115	3505	3695	2910	2910	0809	0810
KIT BT 50 - PC 20 / H 105	7717	3506	3507	3695	2900	2910	0809	0810
KIT BT 50 - PC 32 / H 105	7720	3506	3507	3695	2900	2910	0809	0810



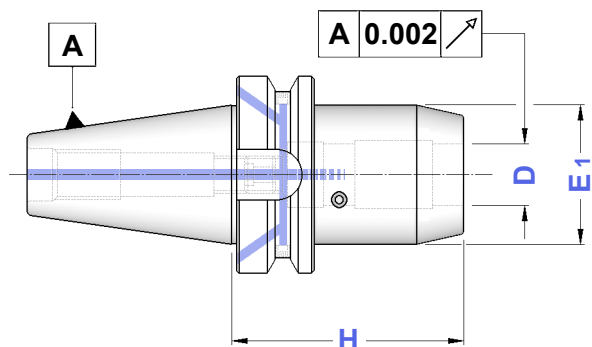
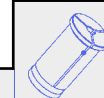
BT**MANDRINI A SERRAGGIO IDRAULICO
TIPO CORTO**

SHORT TYPE HYDRAULIC CHUCKS

FORMA B (AD+B)

Balanced G 2,5

20.000 rpm

**FORMA
B**

TIPO	Art.	D	H	E1	
BT 40 - HYDRO 20	5170	20	72	49,5	0521
BT 50 - HYDRO 32	5180	32	90	72,0	0522

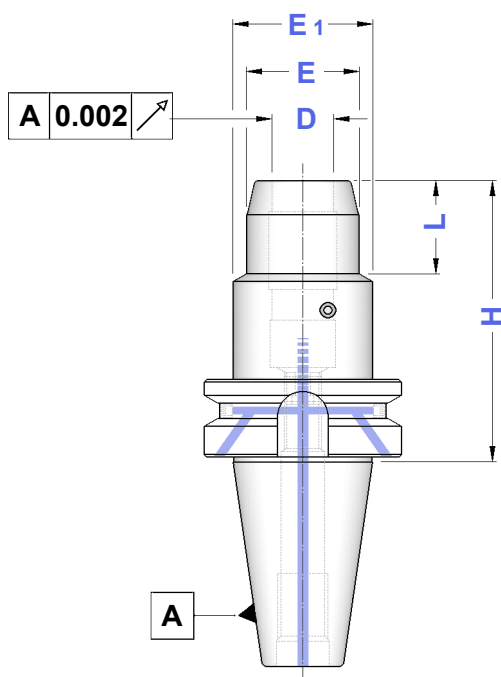
BT**MANDRINI A SERRAGGIO IDRAULICO
TIPO ALLEGGERITO**

RELIEVED TYPE HYDRAULIC CHUCKS

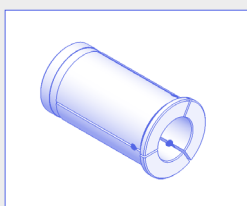
FORMA B (AD+B)

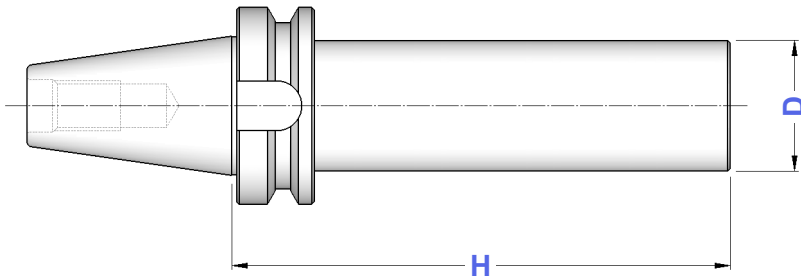
Balanced G 2,5

20.000 rpm

**FORMA
B**

TIPO	Art.	D	H	E	E1	L
BT 40 - HYDRO 6/H 90	5171	6	90	26	49,5	29
BT 40 - HYDRO 8/H 90	5172	8	90	28	49,5	30
BT 40 - HYDRO 10/H 90	5173	10	90	30	49,5	35
BT 40 - HYDRO 12/H 90	5174	12	90	32	49,5	40
BT 40 - HYDRO 16/H 90	5175	16	90	38	49,5	45
BT 40 - HYDRO 20/H 90	5176	20	90	42	49,5	47
BT 40 - HYDRO 25/H 90	5177	25	90	55	52,0	50
BT 40 - HYDRO 32/H 90	5178	32	90	63	62,0	48
BT 50 - HYDRO 6/H 90	8508	6	90	26	49,5	29
BT 50 - HYDRO 8/H 90	8509	8	90	28	49,5	30
BT 50 - HYDRO 10/H 90	8510	10	90	30	49,5	34
BT 50 - HYDRO 12/H 90	8511	12	90	32	49,5	34
BT 50 - HYDRO 16/H 90	8512	16	90	38	49,5	35
BT 50 - HYDRO 20/H 90	5181	20	90	42	49,5	35
BT 50 - HYDRO 25/H 110	8513	25	110	55	63,0	48
BT 50 - HYDRO 32/H 110	8514	32	110	63	70,0	50

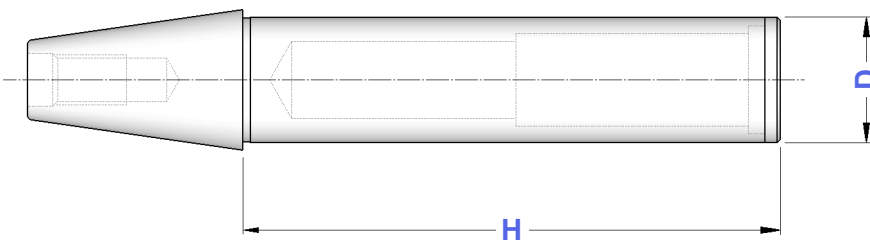
**Pinze cilindriche a tenuta stagna
per Mandrini Idraulici a pag. 31**Watertight cylindrical collets
for Hydraulic Chucks on page 31**Applicazioni:** consente il bloccaggio ad alta precisione di utensili a gambo cilindrico DIN 1835 Forma A e B, con tolleranza di gambo h 6 e rugosità Ra < 0,3 micron**Attenzione :** non azionare il sistema idraulico se l'utensile non è inserito nel mandrino**Applications :** allows high precision locking of DIN 1835 shank tools Form A and B, with shank tolerance h 6 and surface roughness Ra < 0,3 micron.**Warning :** do not start Hydraulic System without any tool fit inside

BT**BARRE A STELO TENERO**
BLANK BARS**FORMA A****FORMA A**

TIPO	Art.	H	D
BT 40 - D. 40	4367	160	40
BT 40 - D. 50	4368	200	50
BT 40 - D. 63	4369	250	63
BT 50 - D. 63	4372	250	63
BT 50 - D. 80	4373	300	80

BARRE DI CONTROLLO
TEST ARBORS

TIPO	Art.	H	D
CONO 40 - D. 40 SC	2225	300	40
CONO 50 - D. 50 SC	2229	350	50

**Tolleranze della barra**

- Rettilineità = 0,003
- Rotondità in rotazione = 0,003
- Cilindricità = 0,003

Bars tolerance

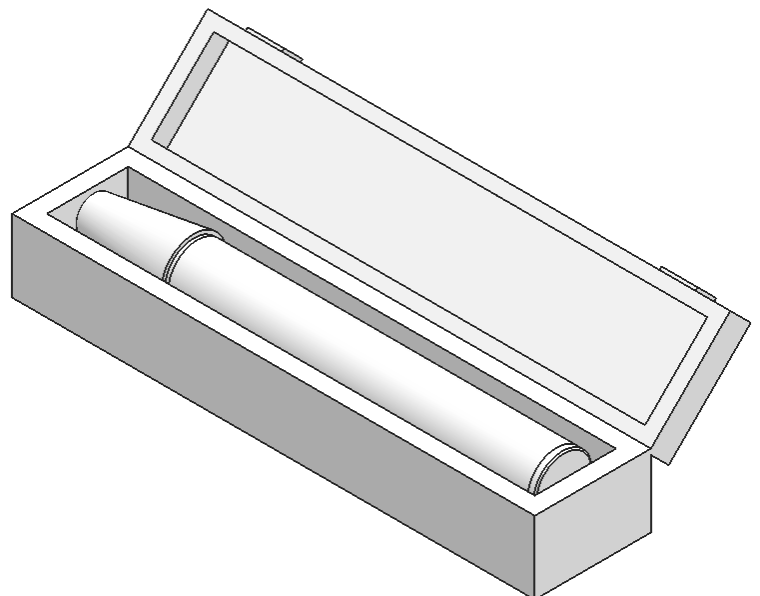
- Straightnes = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

Dati costruttivi

- Costruite in acciaio da cementazione certificato
- Cementate con profondità 0,4 - 0,5 mm
- Temperate, rinvenute, brunite
- Durezza HRC 58 ± 2, resistenza 800-1000 N/mm²
- Finitura di rettifica esterna
- Collaudate 100% con strumenti di misura certificati

Constructive Features

- Manufactured with casehardening steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened, tempered, black oxidized
- Hardnes HRC 58 ± 2, strenght 800-1000 N/mm²
- External grinding finish
- Tested 100% with certified measuring instruments



BT**PORTAFRESE WELDON TIPO EXTRACORTO**
SHORT TYPE END MILL HOLDERS FOR DIN 1835-B SHANKS**FORMA A (AD)****FORMA B (AD+B)**Balanced G 6,3
12.000 rpm

TIPO	FORMA	FORMA	D	H	E	Fig.	G1	G2
	A	B						
	Art.	Art.						
BT 40 - WE 12/H 35	3053	8469	12	35	44	1	4973	—
BT 40 - WE 14/H 35	8465	8470	14	35	44	1	0390	—
BT 40 - WE 16/H 35	3054	5122	16	35	44	1	0068	—
BT 40 - WE 18/H 35	8466	8471	18	35	44	1	0261	—
BT 40 - WE 20/H 35	3055	5123	20	35	44	1	0261	—
BT 40 - WE 25/H 35	3056	5124	25	35	44	1	0082	—
BT 40 - WE 25/H 60	4629	4554		60	49	2	0082	0076
BT 40 - WE 32/H 40	3069	4555	32	40	44	1	0074	—
BT 40 - WE 32/H 70	4630	4556		70	72	2	0082	4977
BT 50 - WE 16/H 44	3057	5125	16	44	70	1	4974	—
BT 50 - WE 18/H 44	8467	8472	18	44	70	1	4974	—
BT 50 - WE 20/H 44	3058	5126	20	44	70	1	4975	—
BT 50 - WE 25/H 44	3059	5127	25	44	70	1	4976	—
BT 50 - WE 32/H 44	3060	5128	32	44	70	1	4977	—
BT 50 - WE 40/H 44	8468	8473	40	44	70	1	0259	—

WELDON EXTRACORTO
SHORT TYPE END MILL

Figura 1

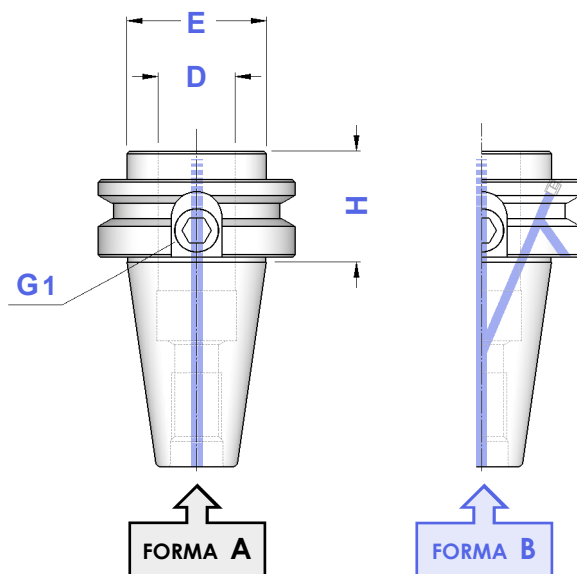
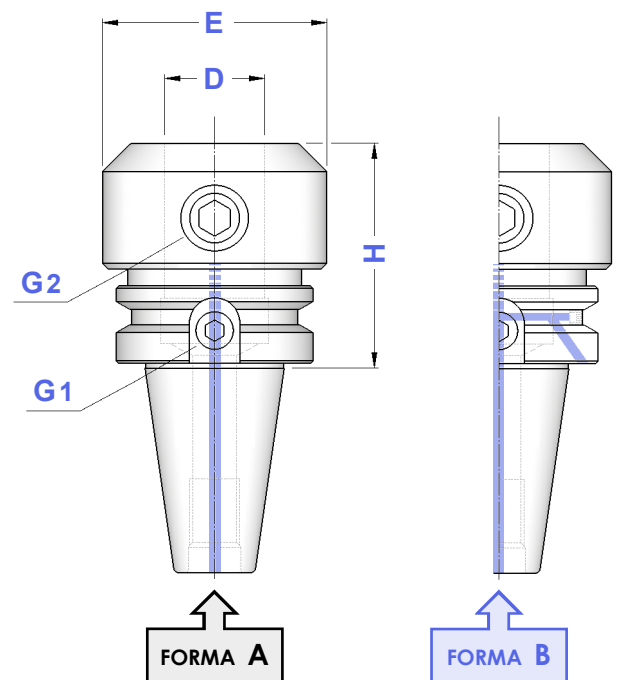
**WELDON EXTRACORTO**
SHORT TYPE END MILL

Figura 2



Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

Figura 1

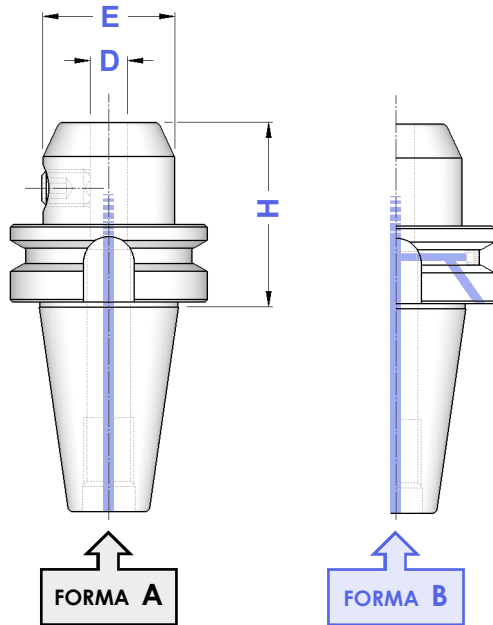
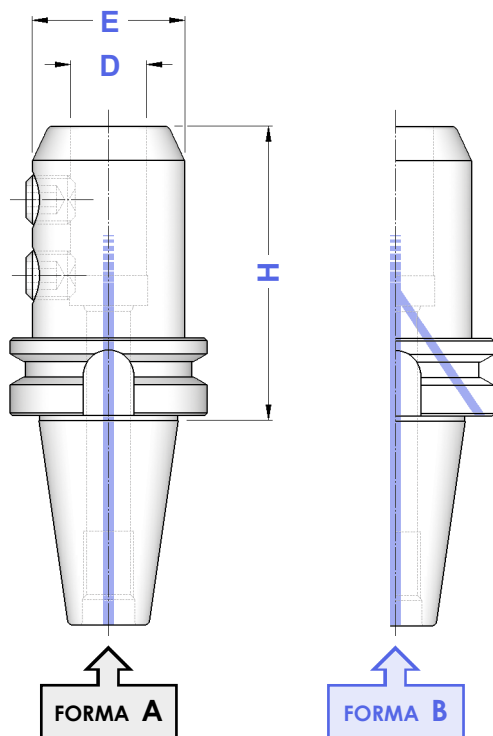
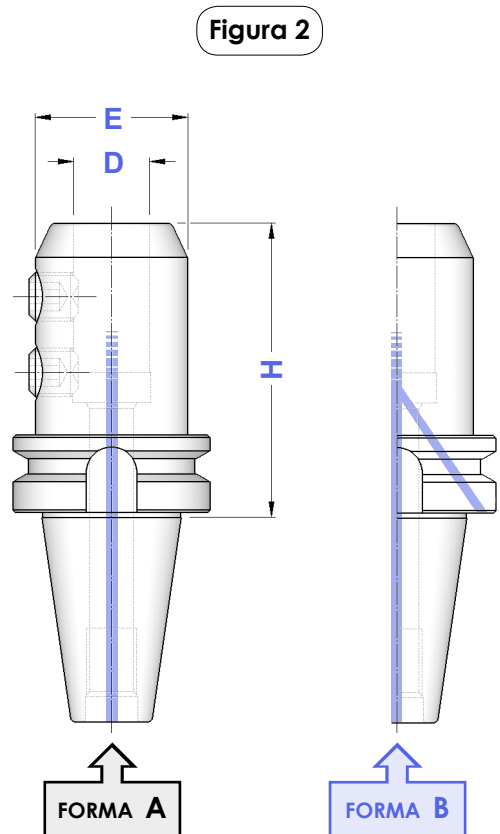
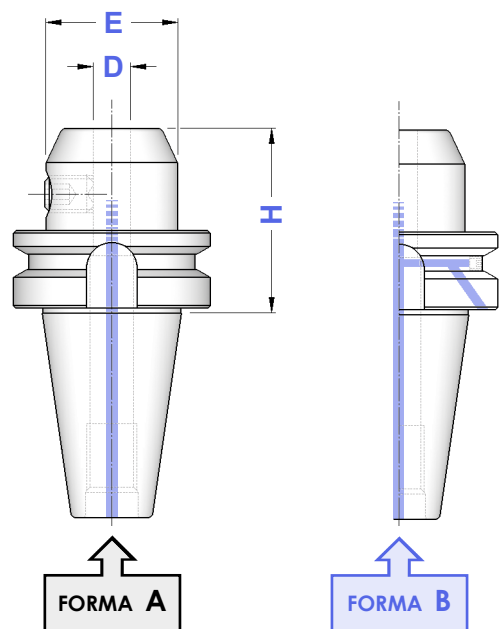


Figura 2



TIPO	FORMA A	FORMA B	D	H	E	Fig.	Fig.
	Art.	Art.					
BT 30 - WE 6/H 50	3740	—	6	50	25	1	4970
BT 30 - WE 8/H 50	3741	—	8	50	28	1	4971
BT 30 - WE 10/H 50	3742	—	10	50	35	1	4972
BT 30 - WE 12/H 55	3743	—	12	55	42	1	4973
BT 30 - WE 16/H 63	3744	—	16	63	48	1	4974
BT 30 - WE 20/H 70	3299	—	20	70	52	1	4975
BT 40 - WE 6/H 50	3752	4909	6	50	25	1	4970
BT 40 - WE 6/H 100	5057	5863		100			
BT 40 - WE 6/H 130	8004	8021		130			
BT 40 - WE 6/H 160	5564	5864		160			
BT 40 - WE 6/H 200	4253	4391		200			
BT 40 - WE 8/H 50	3753	4910	8	50	28	1	4971
BT 40 - WE 8/H 100	5058	5865		100			
BT 40 - WE 8/H 130	8005	8022		130			
BT 40 - WE 8/H 160	5565	5866		160			
BT 40 - WE 8/H 200	4254	4396		200			
BT 40 - WE 10/H 63	3754	4911	10	63	35	1	4972
BT 40 - WE 10/H 100	5059	5867		100			
BT 40 - WE 10/H 130	8006	8023		130			
BT 40 - WE 10/H 160	5566	5868		160			
BT 40 - WE 10/H 200	4255	4397		200			
BT 40 - WE 12/H 63	3755	4912	12	63	42	1	4973
BT 40 - WE 12/H 100	5060	5869		100			
BT 40 - WE 12/H 130	8007	8024		130			
BT 40 - WE 12/H 160	5567	5870		160			
BT 40 - WE 12/H 200	4262	4401		200			
BT 40 - WE 14/H 63	4557	4913	14	63	44	1	4973
BT 40 - WE 14/H 100	5061	5871		100			
BT 40 - WE 14/H 130	8008	8025		130			
BT 40 - WE 14/H 160	4268	4432		160			
BT 40 - WE 14/H 200	4269	4433		200			
BT 40 - WE 16/H 63	3756	4914	16	63	48	1	4974
BT 40 - WE 16/H 100	5062	5872		100			
BT 40 - WE 16/H 130	8009	8026		130			
BT 40 - WE 16/H 160	5063	5873		160			
BT 40 - WE 16/H 200	4270	4434		200			
BT 40 - WE 18/H 63	4558	4915	18	63	50	1	4974
BT 40 - WE 18/H 100	5064	5874		100			
BT 40 - WE 18/H 130	8010	8027		130			
BT 40 - WE 18/H 160	4271	4435		160			
BT 40 - WE 18/H 200	4272	4436		200			
BT 40 - WE 20/H 63	3757	4916	20	63	52	1	4975
BT 40 - WE 20/H 100	5066	5875		100			
BT 40 - WE 20/H 130	5067	4437		130			
BT 40 - WE 20/H 160	5068	5876		160			
BT 40 - WE 20/H 200	4274	4446		200			
BT 40 - WE 25/H 90	3758	4917	25	90	65	2	4976
BT 40 - WE 25/H 130	5069	4939		130			
BT 40 - WE 25/H 160	5070	4448		160			
BT 40 - WE 25/H 200	4358	4479		200			
BT 40 - WE 32/H 100	3759	4918	32	100	72	2	4977
BT 40 - WE 32/H 130	5071	4480		130			
BT 40 - WE 32/H 160	5072	4481		160			
BT 40 - WE 32/H 200	4359	4482		200			
BT 40 - WE 40/H 105	4559	4919	40	105	80	2	4977

segue ➡

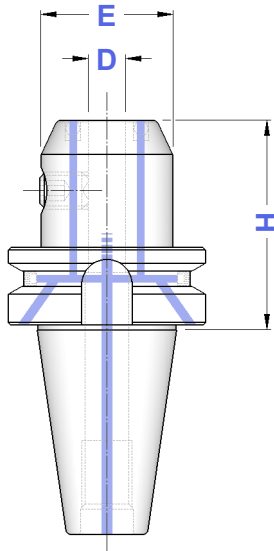


TIPO	FORMA	FORMA	D	H	E	Fig.	Fig.
	A	B					
	Art.	Art.					
BT 50 - WE 6/H 63	3295	4920	6	63	25	1	4970
BT 50 - WE 6/H 100	5073	5877		100			
BT 50 - WE 6/H 130	8011	8028		130			
BT 50 - WE 6/H 160	5568	5878		160			
BT 50 - WE 6/H 200	4360	4485		200			
BT 50 - WE 8/H 63	3769	4921	8	63	28	1	4971
BT 50 - WE 8/H 100	5074	5879		100			
BT 50 - WE 8/H 130	8012	8029		130			
BT 50 - WE 8/H 160	5569	5880		160			
BT 50 - WE 8/H 200	4361	4497		200			
BT 50 - WE 10/H 70	3770	4922	10	70	35	1	4972
BT 50 - WE 10/H 100	5075	5907		100			
BT 50 - WE 10/H 130	8013	8030		130			
BT 50 - WE 10/H 160	5572	5908		160			
BT 50 - WE 10/H 200	4366	4498		200			
BT 50 - WE 12/H 80	3771	4923	12	80	42	1	4973
BT 50 - WE 12/H 100	5574	5912		100			
BT 50 - WE 12/H 130	8014	8031		130			
BT 50 - WE 12/H 160	5076	5909		160			
BT 50 - WE 12/H 200	4370	4499		200			
BT 50 - WE 14/H 80	4560	4924	14	80	44	1	4973
BT 50 - WE 14/H 100	4371	4500		100			
BT 50 - WE 14/H 130	8015	8032		130			
BT 50 - WE 14/H 160	4375	4502		160			
BT 50 - WE 14/H 200	4376	4503		200			
BT 50 - WE 16/H 80	3772	4925	16	80	48	1	4974
BT 50 - WE 16/H 100	5575	5913		100			
BT 50 - WE 16/H 130	8016	8033		130			
BT 50 - WE 16/H 160	5078	5910		160			
BT 50 - WE 16/H 200	4380	4523		200			
BT 50 - WE 18/H 80	4561	4926	18	80	50	1	4974
BT 50 - WE 18/H 100	4381	4524		100			
BT 50 - WE 18/H 130	8017	8034		130			
BT 50 - WE 18/H 160	4382	4525		160			
BT 50 - WE 18/H 200	4384	4526		200			
BT 50 - WE 20/H 80	3773	4927	20	80	52	1	4975
BT 50 - WE 20/H 100	5576	5914		100			
BT 50 - WE 20/H 130	8018	8035		130			
BT 50 - WE 20/H 160	5080	5911		160			
BT 50 - WE 20/H 200	4386	4527		200			
BT 50 - WE 25/H 100	3774	4928	25	100	65	2	4976
BT 50 - WE 25/H 130	8019	8036		130			
BT 50 - WE 25/H 160	5082	5915		160			
BT 50 - WE 25/H 200	4388	4528		200			
BT 50 - WE 32/H 105	3775	4929	32	105	72	2	4977
BT 50 - WE 32/H 130	8020	8037		130			
BT 50 - WE 32/H 160	5083	5916		160			
BT 50 - WE 32/H 200	4389	4529		200			
BT 50 - WE 40/H 120	3776	4930	40	120	80	2	4977
BT 50 - WE 40/H 160	5085	5917		160			
BT 50 - WE 40/H 200	4390	4530		200			
BT 50 - WE 50/H 125	3777	4552	50	125	100	2	4978

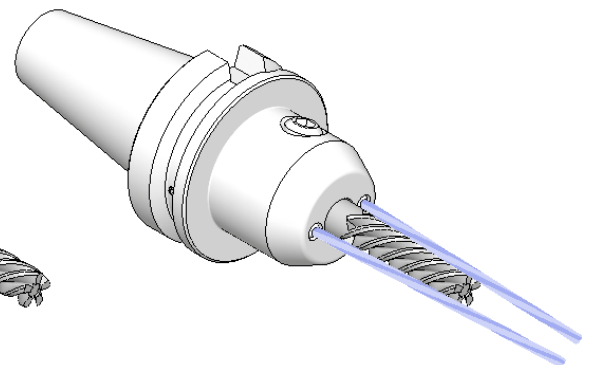
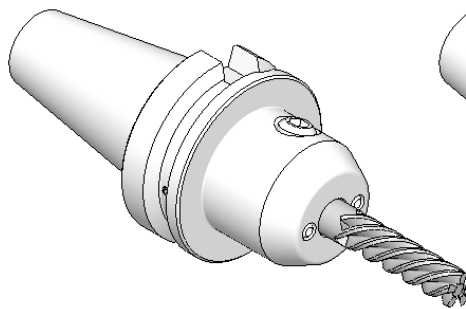
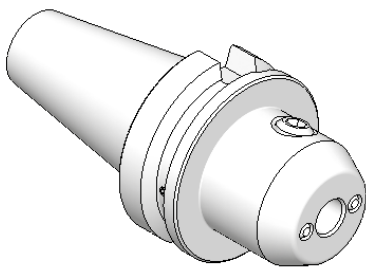
Dove trovare questi Articoli
Where to find those Items



Grani di bloccaggio - pag. 197
Locking screws - page 197

BT
PORTAFRESE WELDON CON SFERE DI LUBRIFICAZIONE
 TOOLHOLDERS FOR DIN 1835-B SHANKS WITH FRONT COOLANT
FORMA B (AD+B)
 Balanced G 6,3
 12.000 rpm
**FORMA B**

TIPO	Art.	D	H	E	
BT 40 - WEC 6/H 50	7872	6	50	25	4970
BT 40 - WEC 8/H 50	7873	8	50	28	4971
BT 40 - WEC 10/H 63	7874	10	63	35	4972
BT 40 - WEC 12/H 63	7875	12	63	42	4973
BT 40 - WEC 14/H 63	7876	14	63	44	4973
BT 40 - WEC 16/H 63	7877	16	63	48	4974
BT 40 - WEC 18/H 63	7878	18	63	50	4974
BT 40 - WEC 20/H 63	7879	20	63	52	4975
BT 40 - WEC 25/H 90	7880	25	90	65	4976
BT 40 - WEC 32/H 100	7881	32	100	72	4977
BT 40 - WEC 40/H 105	7882	40	105	80	4977
BT 50 - WEC 6/H 63	7883	6	63	25	4970
BT 50 - WEC 8/H 63	7884	8	63	28	4971
BT 50 - WEC 10/H 70	7885	10	70	35	4972
BT 50 - WEC 12/H 80	7886	12	80	42	4973
BT 50 - WEC 14/H 80	7887	14	80	44	4973
BT 50 - WEC 16/H 80	7888	16	80	48	4974
BT 50 - WEC 18/H 80	7889	18	80	50	4974
BT 50 - WEC 20/H 80	7890	20	80	52	4975
BT 50 - WEC 25/H 100	7891	25	100	65	4976
BT 50 - WEC 32/H 105	7892	32	105	72	4977
BT 50 - WEC 40/H 120	7893	40	120	80	4977

**Dove trovare questi Articoli**

Where to find those Items

**Ugelli a sfera - pag. 263**

Sphere coolant nozzles - page 263

**Prolunghe per ugelli - pag. 263**

Extensions for coolant nozzles - page 263

BT**MANDRINI PER UTENSILI ATTACCO WHISTLE NOTCH**

END MILL HOLDERS FOR DIN 1835-E SHANKS

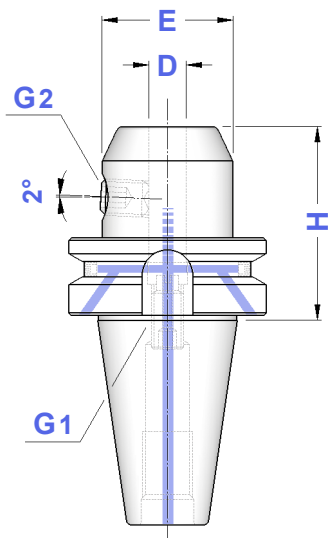
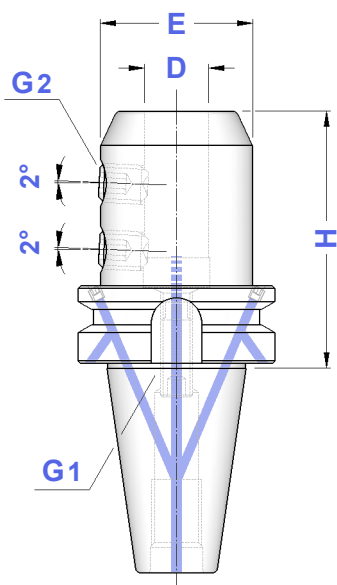
FORMA B (AD+B)

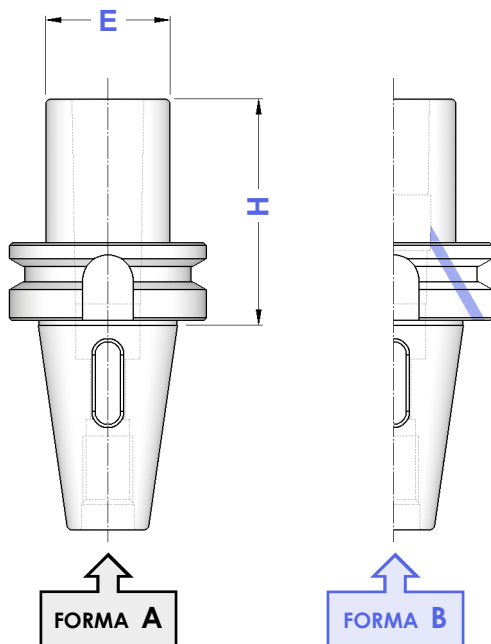
Balanced G 6,3

12.000 rpm

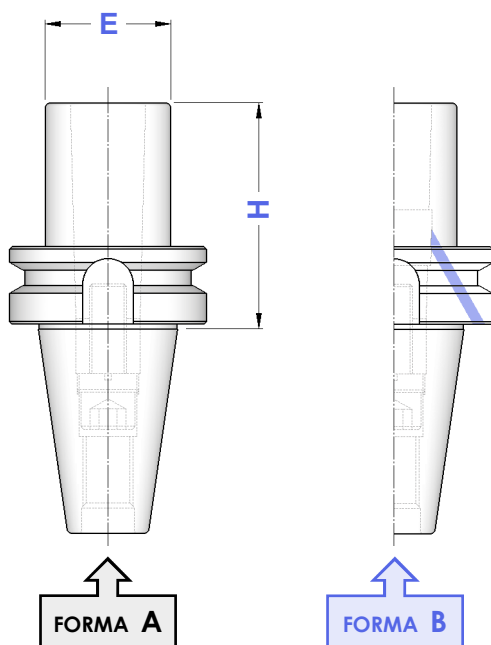
**FORMA
B**




TIPO	Art.	D	H	E	Fig.	G1	G2
BT 40 - WN 6 / H 50	4666	6	50	25	1	0233	4970
BT 40 - WN 8 / H 50	4667	8	50	28	1	0235	4971
BT 40 - WN 10 / H 63	4668	10	63	35	1	0238	4972
BT 40 - WN 12 / H 63	4669	12	63	42	1	0240	4973
BT 40 - WN 14 / H 63	4670	14	63	44	1	0240	4973
BT 40 - WN 16 / H 63	4671	16	63	48	1	0245	4974
BT 40 - WN 18 / H 63	4672	18	63	50	1	0245	4974
BT 40 - WN 20 / H 63	4673	20	63	52	1	0245	4975
BT 40 - WN 25 / H 90	4674	25	90	65	2	0212	4976
BT 40 - WN 32 / H 100	4675	32	100	72	2	0212	4977
BT 40 - WN 40 / H 105	4692	40	105	80	2	0212	4977
BT 50 - WN 6 / H 63	4676	6	63	25	1	0233	4970
BT 50 - WN 8 / H 63	4677	8	63	28	1	0235	4971
BT 50 - WN 10 / H 70	4678	10	70	35	1	0238	4972
BT 50 - WN 12 / H 80	4679	12	80	42	1	0240	4973
BT 50 - WN 14 / H 80	4680	14	80	44	1	0240	4973
BT 50 - WN 16 / H 80	4681	16	80	48	1	0245	4974
BT 50 - WN 18 / H 80	4682	18	80	50	1	0245	4974
BT 50 - WN 20 / H 80	4683	20	80	52	1	0245	4975
BT 50 - WN 25 / H 100	4684	25	100	65	2	0247	4976
BT 50 - WN 32 / H 105	4685	32	105	72	2	0247	4977
BT 50 - WN 40 / H 120	4686	40	120	80	2	0247	4977

Figura 1**Figura 2****Dove trovare questi Articoli***Where to find those Items***Grani di bloccaggio - pag. 197**
Locking screws - page 197**Grani di bloccaggio - pag. 199**
Locking screws - page 199

BT
RIDUZIONI A CONO MORSE PER PUNTE
 MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK
FORMA A**FORMA B**
 Balanced G 6,3
 8.000 rpm


TIPO	FORMA A	FORMA B	CM	H	E
	Art.	Art.			
BT 30 - CM 1 PUNTE	8346	—	1	50	25
BT 30 - CM 2 PUNTE	3796	—	2	60	32
BT 30 - CM 3 PUNTE	3883	—	3	90	40
BT 40 - CM 1 PUNTE	8347	4945	1	50	25
BT 40 - CM 2 PUNTE	8349	4962	2	60	32
BT 40 - CM 3 PUNTE	3783	4963	3	70	40
BT 40 - CM 4 PUNTE	3784	4964	4	95	48
BT 50 - CM 1 PUNTE	8352	—	1	45	25
BT 50 - CM 2 PUNTE	8354	4966	2	60	32
BT 50 - CM 3 PUNTE	8356	4967	3	65	40
BT 50 - CM 4 PUNTE	3793	4968	4	95	48
BT 50 - CM 5 PUNTE	3794	4969	5	120	63

BT
RIDUZIONI A CONO MORSE PER FRESE
 MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK
FORMA A**FORMA B**
 Balanced G 6,3
 8.000 rpm


TIPO	FORMA A	FORMA B	CM	H	E			
	Art.	Art.						
BT 30 - CM 2 FRESE	3882	—	2	60	32	7448	7422	4569
BT 30 - CM 3 FRESE	3884	—	3	80	40	7402	7423	4570
BT 40 - CM 2 FRESE	3886	4932	2	50	32	7448	7422	4569
BT 40 - CM 3 FRESE	3887	4933	3	70	40	7403	7423	4570
BT 40 - CM 4 FRESE	3888	4934	4	95	48	7404	7424	4571
BT 50 - CM 2 FRESE	3801	4935	2	60	32	7448	7422	4569
BT 50 - CM 3 FRESE	2933	4936	3	65	40	7403	7423	4570
BT 50 - CM 4 FRESE	3890	4937	4	90	48	7407	7424	4571
BT 50 - CM 5 FRESE	3891	4936	5	120	63	7408	7425	4572

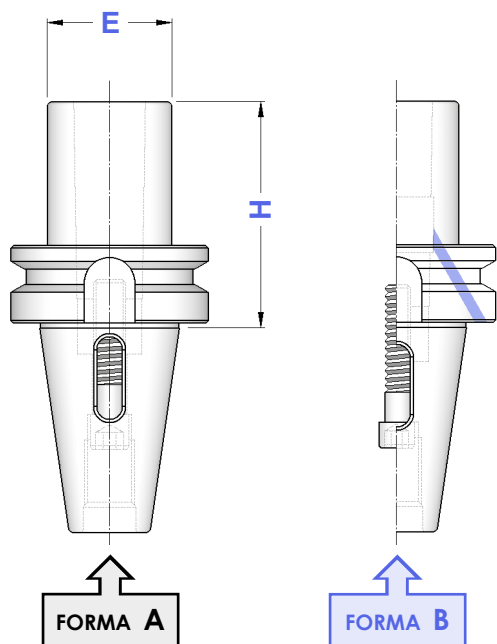
BT**RIDUZIONI A CONO MORSE PUNTE + FRESE
COMBinate**



COMBI MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS

FORMA A**FORMA B**

Balanced G 6,3

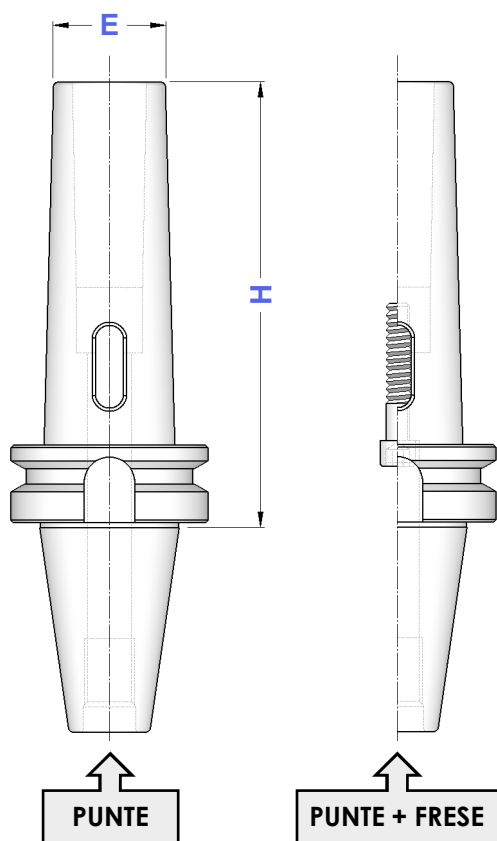
8.000 rpm





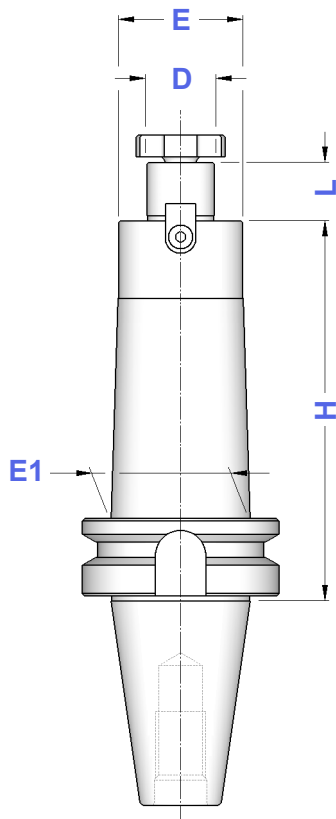
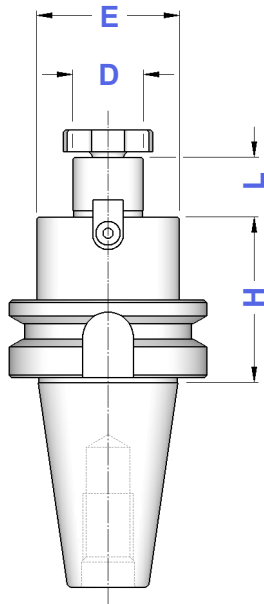
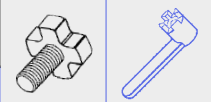
TIPO	FORMA A	FORMA B	CM	H	E		
	Art.	Art.					
BT 30 - CM 1 P+F	3795	—	1	50	25	7415	—
BT 30 - CM 2 P+F	3799	—	2	60	32	7400	0276
BT 30 - CM 3 P+F	3889	—	3	90	40	7418	0130
BT 40 - CM 1 P+F	3781	8747	1	50	25	7400	—
BT 40 - CM 2 P+F	3782	8748	2	60	32	7401	—
BT 40 - CM 3 P+F	8360	8749	3	70	40	7400	0130
BT 50 - CM 1 P+F	3790	—	1	45	25	7400	—
BT 50 - CM 2 P+F	3791	8750	2	60	32	7405	—
BT 50 - CM 3 P+F	3792	8751	3	65	40	7406	—
BT 50 - CM 4 P+F	8361	8752	4	95	48	7409	—
BT 50 - CM 5 P+F	8362	8753	5	120	63	7406	0131

BT**RIDUZIONI A CONO MORSE PER PUNTE E PUNTE + FRESE
TIPO PROLUNGATO**

EXTENDED MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS

FORMA A

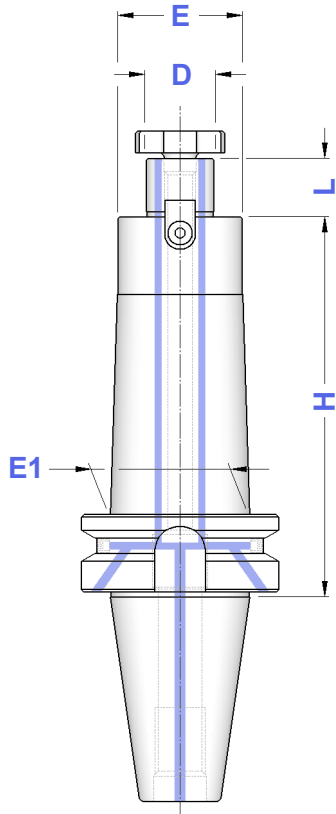
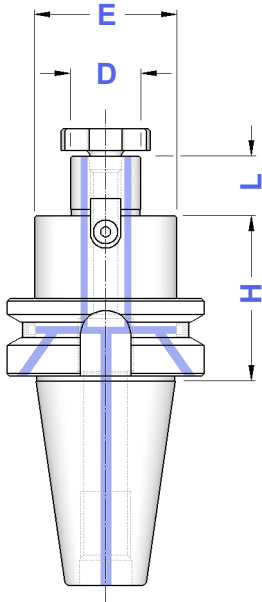
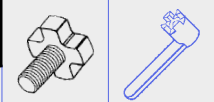
TIPO	PUNTE	PUNTE + FRESE	CM	H	E		
	Art.	Art.					
BT 40 - CM 1	8348	4258	1	115	18	7400	—
BT 40 - CM 2	8350	4259	2	125	25	7401	—
BT 40 - CM 3	8351	4260	3	140	33	7400	0130
BT 40 - CM 4	4261	—	4	165	40	—	—
BT 50 - CM 1	8353	4263	1	120	18	7400	—
BT 50 - CM 2	8355	4264	2	140	25	7405	—
BT 50 - CM 3	8357	4265	3	150	33	7406	—
BT 50 - CM 4	8358	4266	4	180	40	7409	—
BT 50 - CM 5	8359	4267	5	220	55	0055	0131

BT**PORTAFRESE FISSI**
DIN 6357 FACE MILL HOLDERS**FORMA A**Balanced G 6,3
8.000 rpm**FORMA A**

TIPO	Art.	D	L	E	E1		
BT 30 - D.13 FISSO / H 35	8412	13	12	28	28	0482	—
BT 30 - D.16 FISSO / H 35	4152	16	17	38	38	4985	4562
BT 30 - D.22 FISSO / H 40	4154	22	19	48	48	4986	4563
BT 30 - D.27 FISSO / H 40	4156	27	21	58	58	4987	4564
BT 30 - D.32 FISSO / H 45	8413	32	24	58	58	4988	4565
BT 40 - D.13 FISSO / H 45	8414	13	12	28	28	0482	—
BT 40 - D.16 FISSO / H 45	4161	16	17	38	38	4985	4562
BT 40 - D.16 FISSO / H 100	5578						
BT 40 - D.16 FISSO / H 130	9420						
BT 40 - D.16 FISSO / H 160	8415						
BT 40 - D.16 FISSO / H 200	8416						
BT 40 - D.22 FISSO / H 45	4644	22	19	48	48	4986	4563
BT 40 - D.22 FISSO / H 100	5588						
BT 40 - D.22 FISSO / H 130	9421			46			
BT 40 - D.22 FISSO / H 160	5589						
BT 40 - D.22 FISSO / H 200	8417						
BT 40 - D.27 FISSO / H 45	4645	27	21	58	58	4987	4564
BT 40 - D.27 FISSO / H 100	5590						
BT 40 - D.27 FISSO / H 130	9422			48			
BT 40 - D.27 FISSO / H 160	5591						
BT 40 - D.27 FISSO / H 200	8418						
BT 40 - D.32 FISSO / H 50	4646	32	24	78	78	4988	4565
BT 40 - D.32 FISSO / H 100	5592						
BT 40 - D.32 FISSO / H 160	8419			58			
BT 40 - D.40 FISSO / H 55	4647	40	27	88	88	4989	4566
BT 40 - D.40 FISSO / H 100	8420						
BT 40 - D.40 FISSO / H 160	8421			70			
BT 50 - D.16 FISSO / H 60	4648	16	17	38	38	4985	4562
BT 50 - D.16 FISSO / H 100	5593						
BT 50 - D.16 FISSO / H 130	9425						
BT 50 - D.16 FISSO / H 160	8422						
BT 50 - D.16 FISSO / H 200	8423						
BT 50 - D.22 FISSO / H 60	4172	22	19	48	48	4986	4563
BT 50 - D.22 FISSO / H 100	5659						
BT 50 - D.22 FISSO / H 130	9426			46			
BT 50 - D.22 FISSO / H 160	5660			49			
BT 50 - D.22 FISSO / H 200	8424						
BT 50 - D.22 FISSO / H 250	8425						
BT 50 - D.22 FISSO / H 300	8426						
BT 50 - D.27 FISSO / H 60	4649	27	21	58	58	4987	4564
BT 50 - D.27 FISSO / H 100	5666						
BT 50 - D.27 FISSO / H 130	9427			55			
BT 50 - D.27 FISSO / H 160	5667			78			
BT 50 - D.27 FISSO / H 200	8427						
BT 50 - D.27 FISSO / H 250	8428						
BT 50 - D.27 FISSO / H 300	8429						
BT 50 - D.32 FISSO / H 60	4650	32	24	78	78	4988	4565
BT 50 - D.32 FISSO / H 100	5669						
BT 50 - D.32 FISSO / H 130	9428			66			
BT 50 - D.32 FISSO / H 160	8430						
BT 50 - D.32 FISSO / H 200	8431						
BT 50 - D.32 FISSO / H 250	8432						
BT 50 - D.32 FISSO / H 300	8433						
BT 50 - D.40 FISSO / H 60	4651	40	27	88	88	4989	4566
BT 50 - D.40 FISSO / H 100	5676						
BT 50 - D.40 FISSO / H 160	8434			70			
BT 50 - D.40 FISSO / H 200	8435			70			

BT**PORTAFRESE FISSI CON PASSAGGIO REFRIGERANTE**

DIN 6357 FACE MILL HOLDERS WITH COOLANT THROUGH

FORMA B (AD+B)Balanced G 6,3
8.000 rpm**FORMA
B**

TIPO	Art.	D	L	E	E1		
BTB 40 - D. 16 FISSO/H 45	5881	16	17	38	38	4985	4562
BTB 40 - D. 16 FISSO/H 100	5882						
BTB 40 - D. 16 FISSO/H 130	9430						
BTB 40 - D. 16 FISSO/H 160	8438						
BTB 40 - D. 16 FISSO/H 200	8439						
BTB 40 - D. 22 FISSO/H 45	5883	22	19	46	48	4986	4563
BTB 40 - D. 22 FISSO/H 100	5884						
BTB 40 - D. 22 FISSO/H 130	9431						
BTB 40 - D. 22 FISSO/H 160	8440						
BTB 40 - D. 22 FISSO/H 200	8441						
BTB 40 - D. 27 FISSO/H 45	5885	27	21	48	58	4987	4564
BTB 40 - D. 27 FISSO/H 100	5886						
BTB 40 - D. 27 FISSO/H 130	9432						
BTB 40 - D. 27 FISSO/H 160	8442						
BTB 40 - D. 27 FISSO/H 200	8443						
BTB 40 - D. 32 FISSO/H 50	5887	32	24	58	78	4988	4565
BTB 40 - D. 32 FISSO/H 100	5888						
BTB 40 - D. 32 FISSO/H 160	8444						
BTB 40 - D. 40 FISSO/H 55	5889	40	27	70	88	4989	4566
BTB 40 - D. 40 FISSO/H 100	8445						
BTB 40 - D. 40 FISSO/H 160	8446						
BTB 50 - D. 16 FISSO/H 60	5890	16	17	38	38	4985	4562
BTB 50 - D. 16 FISSO/H 100	5891						
BTB 50 - D. 16 FISSO/H 130	9435						
BTB 50 - D. 16 FISSO/H 160	8447						
BTB 50 - D. 16 FISSO/H 200	8448						
BTB 50 - D. 22 FISSO/H 60	5892	22	19	46	48	4986	4563
BTB 50 - D. 22 FISSO/H 100	5893						
BTB 50 - D. 22 FISSO/H 130	9436						
BTB 50 - D. 22 FISSO/H 160	8449						
BTB 50 - D. 22 FISSO/H 200	8450						
BTB 50 - D. 22 FISSO/H 250	8451						
BTB 50 - D. 22 FISSO/H 300	8452						
BTB 50 - D. 27 FISSO/H 60	5894	27	21	55	58	4987	4564
BTB 50 - D. 27 FISSO/H 100	5895						
BTB 50 - D. 27 FISSO/H 130	9437						
BTB 50 - D. 27 FISSO/H 160	8453						
BTB 50 - D. 27 FISSO/H 200	8454						
BTB 50 - D. 27 FISSO/H 250	8455						
BTB 50 - D. 27 FISSO/H 300	8456						
BTB 50 - D. 32 FISSO/H 60	5896	32	24	66	78	4988	4565
BTB 50 - D. 32 FISSO/H 100	5897						
BTB 50 - D. 32 FISSO/H 130	9438						
BTB 50 - D. 32 FISSO/H 160	8457						
BTB 50 - D. 32 FISSO/H 200	8458						
BTB 50 - D. 32 FISSO/H 250	8459						
BTB 50 - D. 32 FISSO/H 300	8460						
BTB 50 - D. 40 FISSO/H 60	5898	40	27	70	88	4989	4566
BTB 50 - D. 40 FISSO/H 100	5899						
BTB 50 - D. 40 FISSO/H 160	8461						
BTB 50 - D. 40 FISSO/H 200	8462						

**Tasselli - pag. 195**
Dowels - page 195**Viti testa a croce - pag. 194**
Cross head screws - page 194**Viti per tassello - pag. 198**
Dowel screws - page 198**Chiavi testa a croce - pag. 194**
Wrenches cross head - page 194

BT

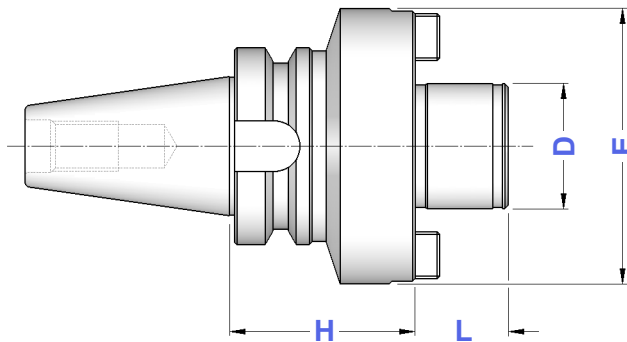
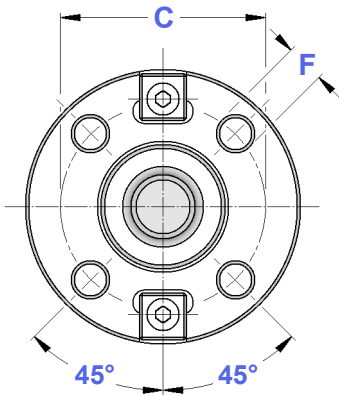
ATTACCHI PER FRESE AD INSERTI
FACE MILL HOLDERS FOR FACE MILLING CUTTERS

FORMA A

Balanced G 6,3
8.000 rpm




FORMA A

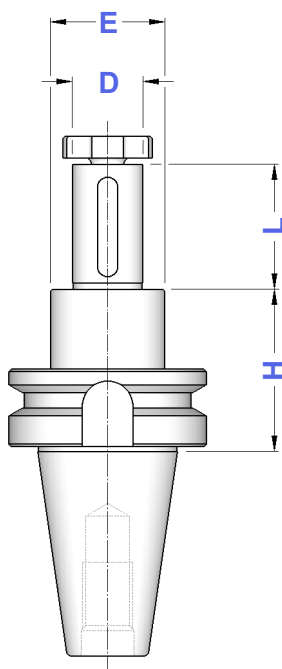
TIPO	Art.	D	H	L	E	C	F
BT 40 - D. 40 FM	4186	40	60	30	89	66,7	M12
BT 50 - D. 40 FM	4187	40	70	30	89	66,7	M12
BT 50 - D. 60 FM	4188	60	80	40	129	101,6	M16

**BT**





PORTAFRESE CON CHIAVETTA DI TRASCINAMENTO
MILL HOLDERS WITH FEATHER KEY

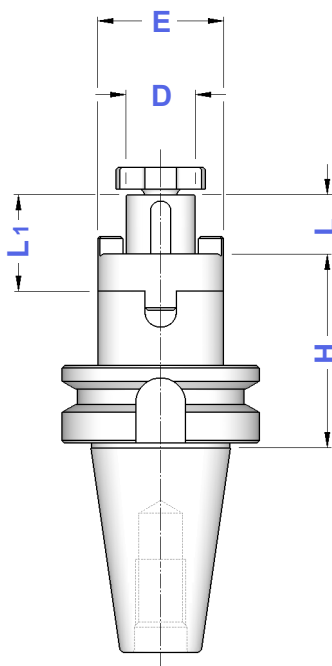
FORMA A**FORMA A**

TIPO	Art.	D	H	L	E			
BT 40 - D. 16 CHT	8503	16	52	30	28	0147	4985	4562
BT 40 - D. 22 CHT	8504	22	52	40	36	0148	4986	4563
BT 40 - D. 27 CHT	8505	27	52	60	43	0149	4987	4564
BT 40 - D. 32 CHT	8506	32	52	60	48	0150	4988	4565
BT 40 - D. 40 CHT	8507	40	52	60	56	0151	4989	4566



Balanced G 6,3
8.000 rpm

TIPO	FORMA A				D	L1	L	E				
	Art.											
BT 30 - D. 16 C/H 50	3797	16	27	17	32	4090	0115	4985	4562			
BT 30 - D. 22 C/H 50	3798	22	31	19	40	4091	0116	4986	4563			
BT 30 - D. 27 C/H 55	3943	27	33	21	48	4092	0122	4987	4564			
BT 40 - D. 16 C/H 55 BT 40 - D. 16 C/H 100 BT 40 - D. 16 C/H 150	3802 4113 8483	16	27	17	32	4090	0115	4985	4562			
BT 40 - D. 22 C/H 55 BT 40 - D. 22 C/H 100 BT 40 - D. 22 C/H 150	3803 4114 8484	22	31	19	40	4091	0116	4986	4563			
BT 40 - D. 27 C/H 55 BT 40 - D. 27 C/H 100 BT 40 - D. 27 C/H 150	3804 4115 8485	27	33	21	48	4092	0122	4987	4564			
BT 40 - D. 32 C/H 60 BT 40 - D. 32 C/H 100 BT 40 - D. 32 C/H 150	3805 4116 8486	32	38	24	58	4093	0125	4988	4565			
BT 40 - D. 40 C/H 60 BT 40 - D. 40 C/H 100	3806 3810	40	41	27	70	4094	0133	4989	4566			
BT 50 - D. 16 C/H 70 BT 50 - D. 16 C/H 100	3812 4117	16	27	17	32	4090	0115	4985	4562			
BT 50 - D. 22 C/H 70 BT 50 - D. 22 C/H 100	3813 4118	22	31	19	40	4091	0116	4986	4563			
BT 50 - D. 27 C/H 70 BT 50 - D. 27 C/H 100	3814 4119	27	33	21	48	4092	0122	4987	4564			
BT 50 - D. 32 C/H 70 BT 50 - D. 32 C/H 100	3815 4120	32	38	24	58	4093	0125	4988	4565			
BT 50 - D. 40 C/H 70 BT 50 - D. 40 C/H 100	3816 4121	40	41	27	70	4094	0133	4989	4566			



Dove trovare questi Articoli

Where to find those Items



Giunti di trascinamento - pag. 194

Clutch drive rings - page 194



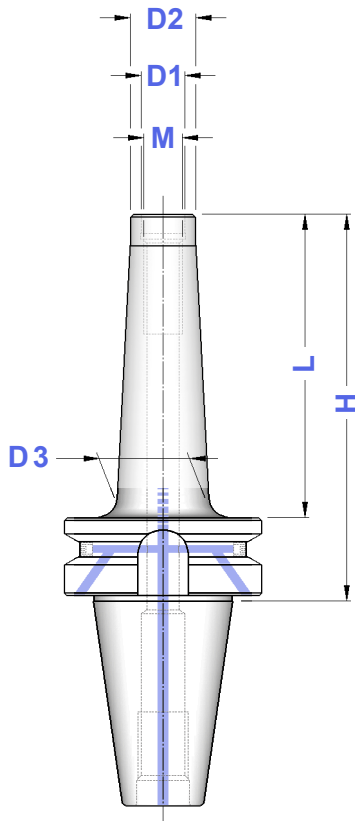
Viti testa a croce - pag. 194

Cross head screws - page 194



Chiavi per testa a croce - pag. 194

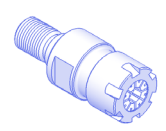
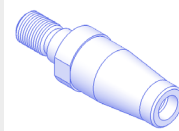
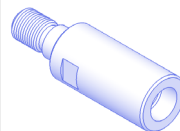
Wrenches for cross head - page 194

BT**MANDRINI PER FRESE CON ATTACCO FILETTATO**
CHUCKS FOR MILLING CUTTERS WITH THREADED SHANK**FORMA B (AD+B)**Balanced G 6,3
12.000 rpm**FORMA
B**

TIPO	Art.	M	D1	D2	D3	H	L
BT 40 - M 6 / H 55	7687	M 6	6,5	10	13	55	28
BT 40 - M 6 / H 77	7688				20	77	50
BT 40 - M 6 / H 102	7689				23	102	75
BT 40 - M 8 / H 55	7827	M 8	8,5	13	15	55	28
BT 40 - M 8 / H 77	7828				23	77	50
BT 40 - M 8 / H 102	7829				23	102	75
BT 40 - M 8 / H 127	7830				25	127	100
BT 40 - M 10 / H 55	7831	M 10	10,5	18	20	55	28
BT 40 - M 10 / H 77	7832				23	77	50
BT 40 - M 10 / H 102	7833				28	102	75
BT 40 - M 10 / H 127	7834				32	127	100
BT 40 - M 12 / H 55	7835	M 12	12,5	21	24	55	28
BT 40 - M 12 / H 77	7836				24	77	50
BT 40 - M 12 / H 102	7837				31	102	75
BT 40 - M 12 / H 127	7838				33	127	100
BT 40 - M 16 / H 55	7839	M 16	17,0	29	32	55	28
BT 40 - M 16 / H 77	7840				34	77	50
BT 40 - M 16 / H 102	7841				34	102	75
BT 40 - M 16 / H 127	7842				36	127	100
BT 40 - M 16 / H 152	7843				40	152	125
BT 50 - M 12 / H 88	7844	M 12	12,5	21	24	88	50
BT 50 - M 12 / H 138	7845				33	138	100
BT 50 - M 12 / H 188	7846				40	188	150
BT 50 - M 12 / H 254	8719				42	254	216
BT 50 - M 16 / H 88	7847	M 16	17,0	29	34	88	50
BT 50 - M 16 / H 138	7848				36	138	100
BT 50 - M 16 / H 188	7849				42,5	188	150
BT 50 - M 16 / H 254	8720				44	254	216

Prolunghe, Riduzioni, Portapinze ER con attacco filettato a pag. 43 del Catalogo Generale

Extensions, Reductions, ER Collet Chucks with threaded shank from page 43 on General Catalogue



BT

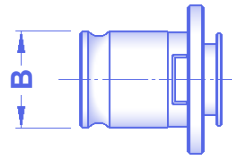
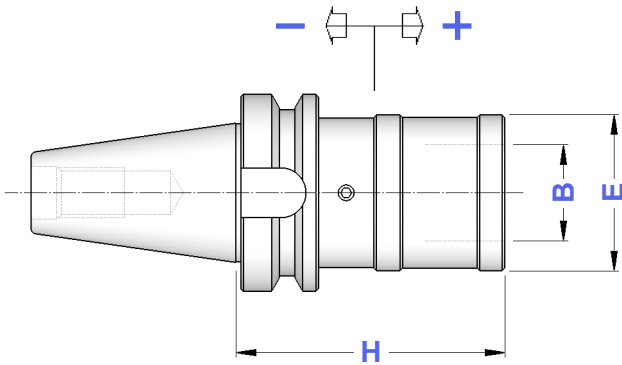
**MASCHIATORI A CAMBIO RAPIDO CON
DOPPIA COMPENSAZIONE**
DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS

FORMA A**FORMA
A**

TIPO	Art.	H	E	B	COMPENSAZIONE	
BT 30 - B.1	2863	63	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
BT 30 - B.2	2865	107	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
BT 40 - B.1	3524	67	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
BT 40 - B.2	3525	93	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
BT 40 - B.3	3526	164	79	48	- 20,0 + 20,0	M14 ÷ M 33 (*M48)
BT 50 - B.1	3028	80	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
BT 50 - B.2	3530	102	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
BT 50 - B.3	3531	133	79	48	- 20,0 + 20,0	M14 ÷ M 33 (*M48)



* Bussole con grani
Adapters with screws



Bussole a maschiare
Tap Adapters
Pag. 172 - 175

BT

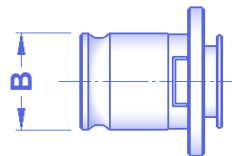
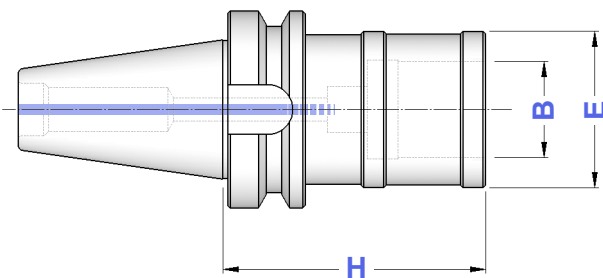
**MASCHIATORI A CAMBIO RAPIDO
SENZA COMPENSAZIONE**
QUICK CHANGE TAP HOLDERS WITHOUT COMPENSATION

FORMA A (AD)**FORMA
A**

TIPO	Art.	H	E	B	
BT 40 - B.1 FISSO	4951	67	33	19	M 3 ÷ M 12 (*M16)
BT 40 - B.2 FISSO	4952	90	50	31	M 6 ÷ M 20 (*M30)
BT 40 - B.3 FISSO	5711	117	72	48	M14 ÷ M 33 (*M48)
BT 50 - B.1 FISSO	2999	78	33	19	M 3 ÷ M 12 (*M16)
BT 50 - B.2 FISSO	4953	101	50	31	M 6 ÷ M 20 (*M30)
BT 50 - B.3 FISSO	5712	125	72	48	M14 ÷ M 33 (*M48)



* Bussole con grani
Adapters with screws

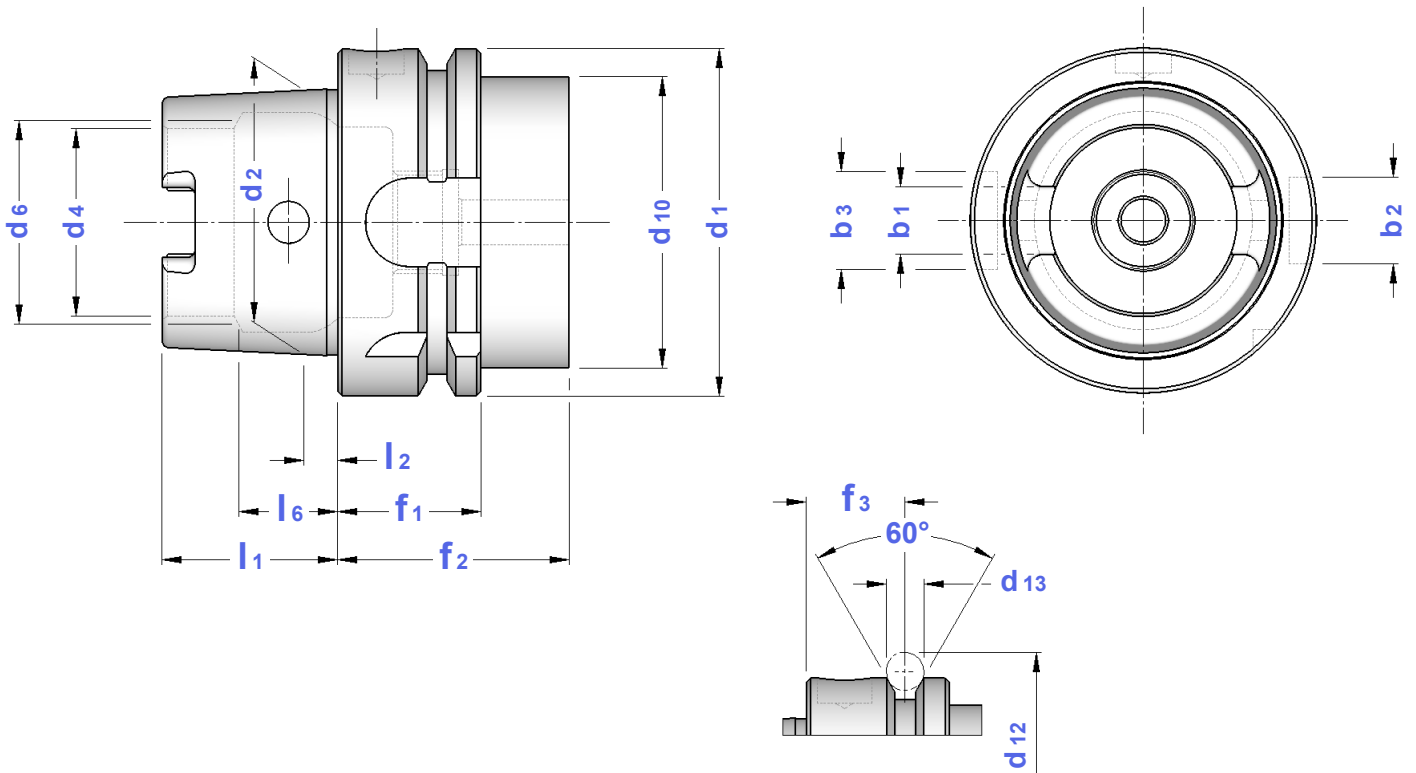


Bussole a maschiare
Tap Adapters
Pag. 172 - 175

I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

CARATTERISTICHE TECNICHE DIN 69893 - HSK A+C

DIN 69893 - HSK A+C STANDARD FEATURES



CONO	b1	b2	b3	d1	d2	d4	d6	d10	d12	d13	f1	f2	f3	l1	l2	l6	OR
HSK 32	7,05	7	9	32	24	17	19	26	37,00	4	20	35	16	16	3,2	8,92	6975
HSK 40	8,05	9	11	40	30	21	23	34	45,00	4	20	35	16	20	4,0	11,42	6976
HSK 50	10,54	12	14	50	38	26	29	42	59,30	7	26	42	18	25	5,0	14,13	6977
HSK 63	12,54	16	18	63	48	34	37	53	72,30	7	26	42	18	32	6,3	18,13	6978
HSK 100	20,02	20	22	100	75	53	58	85	109,75	7	29	45	20	50	10,0	28,56	6979

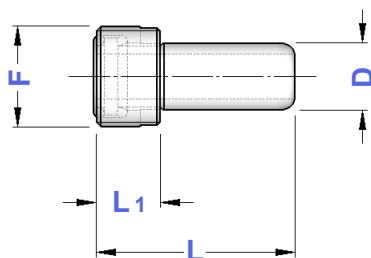
ADDUTTORI PER REFRIGERANTE COOLANT TUBES



OR
O-RING



CHIAVE
WRENCH

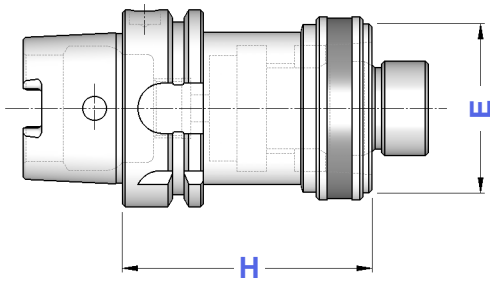


TIPO	Art.	F	D	L	L1	OR	CHIAVE
HSK 32 A+C	0413	M 10 x 1	6	26,0	5,5	5668	0470
HSK 40 A+C	0414	M 12 x 1	8	29,3	7,5	5672	0471
HSK 50 A+C	0415	M 16 x 1	10	33,0	9,5	5673	0472
HSK 63 A+C	0416	M 18 x 1	12	36,6	11,5	5674	0473
HSK 100 A+C	0418	M 24 x 1,5	16	44,0	15,5	5675	0474

HSK A + C

RIDUZIONI A HSK A+C REDUCTIONS TO HSK A+C

TIPO	Art.	H	E
HSK 50 A - HSK 32 A+C	6193	60	32
HSK 50 A - HSK 40 A+C	6194	70	40
HSK 63 A - HSK 32 A+C	6195	70	32
HSK 63 A - HSK 40 A+C	6196	70	40
HSK 63 A - HSK 50 A+C	6197	80	50
HSK100 A - HSK 50 A+C	6198	90	50
HSK100 A - HSK 63 A+C	6199	100	63

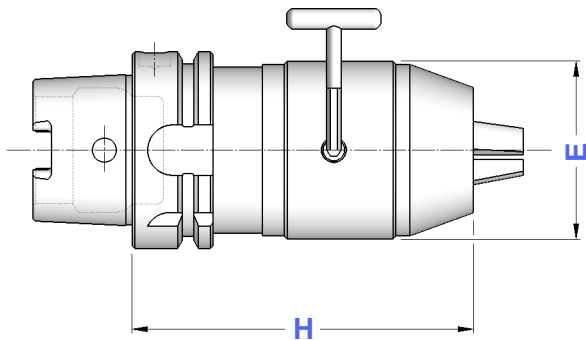


HSK A + C

MANDRINI AUTOSERRANTI INTEGRALI ROTAZIONE DESTRA E SINISTRA MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN

Balanced G 6,3
12.000 rpm

TIPO	Art.	CAPACITA'	E	H	
HSK 50 A - DCU 13	8830	1 ÷ 13	50	105	2372
HSK 63 A - DCU 13	8831	1 ÷ 13	50	130	2372
HSK 63 A - DCU 16	8832	3 ÷ 16	57	140	
HSK 100 A - DCU 13	8833	1 ÷ 13	50	108	2372
HSK 100 A - DCU 16	8834	3 ÷ 16	57	113	



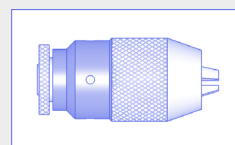
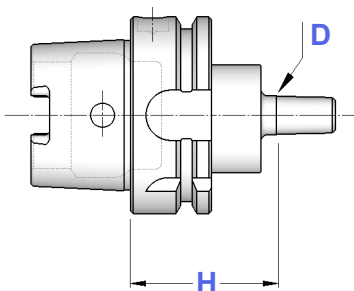
Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

HSK A + C

ATTACCHI PER MANDRINI PORTAPUNTA DIN 238 SHANKS FOR DRILL CHUCKS DIN 238 TYPE

Balanced G 6,3
8.000 rpm

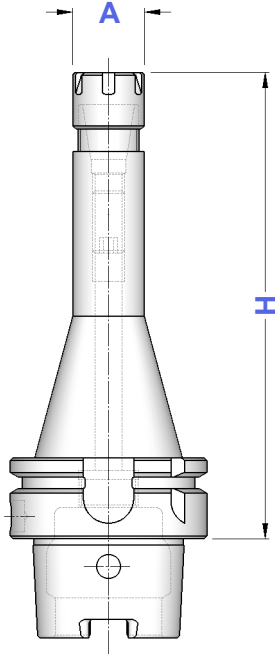
TIPO	Art.	D	H
HSK 63 A - B12	6014	12,065	45
HSK 63 A - B16	6015	15,733	45
HSK 63 A - B18	6016	17,780	45



I Mandrini Autoserranti
si trovano a pagina 69.

Keyless Drill Chucks
you can find on page 69.

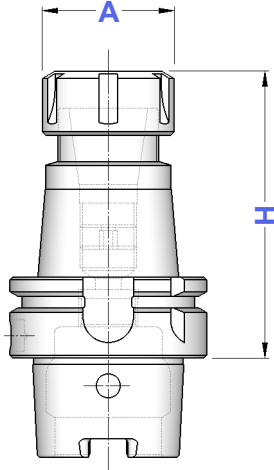
Balanced G 6,3
15.000 rpm






TIPO	Art.	A	CAPACITA'			
HSK 32 A - ER 16 GM/H 65	6000	22	1 ÷ 10	1229	5719	0364
HSK 32 A - ER 16 GM/H 90	6001					
HSK 32 A - ER 25 GM/H 70	6004	35	1 ÷ 16	1231	5721	0996
HSK 40 A - ER 11 GM/H 70	6027	16	1 ÷ 7	0432	5718	5573
HSK 40 A - ER 11 GM/H 100	6028					
HSK 40 A - ER 11 GM/H 160	6029					
HSK 40 A - ER 16 GM/H 70	6006	22	1 ÷ 10	1229	5719	0364
HSK 40 A - ER 16 GM/H 120	6007					
HSK 40 A - ER 25 GM/H 120	6011	35	1 ÷ 16	1231	5721	0996
HSK 50 A - ER 11 GM/H 100	6010	16	1 ÷ 7	0432	5718	5573
HSK 50 A - ER 16 GM/H 80	6012	22	1 ÷ 10	1229	5719	0364
HSK 50 A - ER 16 GM/H 100	6002					
HSK 50 A - ER 16 GM/H 150	6013					
HSK 50 A - ER 25 GM/H 150	6017	35	1 ÷ 16	1231	5721	0996
HSK 63 A - ER 11 GM/H 70	6003	16	1 ÷ 7	0432	5718	5573
HSK 63 A - ER 11 GM/H 100	6073					
HSK 63 A - ER 11 GM/H 130	6005					
HSK 63 A - ER 11 GM/H 160	6074					
HSK 63 A - ER 16 GM/H 70	6008	22	1 ÷ 10	1229	5719	0364
HSK 63 A - ER 16 GM/H 100	6018					
HSK 63 A - ER 16 GM/H 130	6009					
HSK 63 A - ER 16 GM/H 160	6019					
HSK 63 A - ER 16 GM/H 200	6109					
HSK 63 A - ER 20 GM/H 70	6119					
HSK 63 A - ER 20 GM/H 100	6020	28	1 ÷ 13	1230	5720	0787
HSK 63 A - ER 20 GM/H 130	6301					
HSK 63 A - ER 20 GM/H 160	6021					
HSK 63 A - ER 20 GM/H 200	6303					
HSK 63 A - ER 25 GM/H 70	6121					
HSK 63 A - ER 25 GM/H 100	6022	35	1 ÷ 16	1231	5721	0996
HSK 63 A - ER 25 GM/H 130	6123					
HSK 63 A - ER 25 GM/H 160	6023					
HSK 63 A - ER 25 GM/H 200	6129					
HSK 100 A - ER 16 GM/H 100	6024					
HSK 100 A - ER 16 GM/H 160	6025					
HSK 100 A - ER 16 GM/H 200	6305					
HSK 100 A - ER 20 GM/H 100	6307	28	1 ÷ 13	1230	5720	0787
HSK 100 A - ER 20 GM/H 160	6308					
HSK 100 A - ER 20 GM/H 200	6310					
HSK 100 A - ER 25 GM/H 100	6311	35	1 ÷ 16	1231	5721	0996
HSK 100 A - ER 25 GM/H 160	6026					
HSK 100 A - ER 25 GM/H 200	6313					

	Pinze ER da pag. 8 ER Collets from page 8		Ghiere ER - da pag. 20 ER Nuts - from page 20
	Grani di presettaggio da pag. 197 Presetting screws from page 197		Chiavi ER - pag. 25 ER Wrenches - page 25

Balanced G 6,3
15.000 rpm

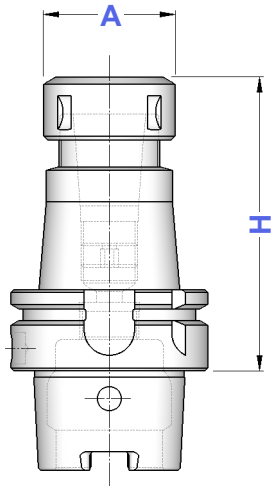





TIPO	Art.	A	CAPACITA'			
HSK 40 A - ER 25/H 65	6030	42	1 ÷ 16	4995	3669	0996
HSK 40 A - ER 25/H 80	6031					
HSK 40 A - ER 25/H 160	6075					
HSK 40 A - ER 32/H 65	6032	50	2 ÷ 20	4996	3670	0988
HSK 40 A - ER 32/H 100	6033					
HSK 40 A - ER 32/H 160	6034					
HSK 50 A - ER 16/H 70	6934	32	1 ÷ 10	4993	3698	0364
HSK 50 A - ER 16/H 100	6035					
HSK 50 A - ER 16/H 160	6935					
HSK 50 A - ER 20/H 70	6036	35	1 ÷ 13	4994	3699	0787
HSK 50 A - ER 20/H 100	6037					
HSK 50 A - ER 20/H 160	6936					
HSK 50 A - ER 25/H 70	6038	42	1 ÷ 16	4995	3669	0996
HSK 50 A - ER 25/H 100	6039					
HSK 50 A - ER 25/H 160	6042					
HSK 50 A - ER 32/H 70	6040	50	2 ÷ 20	4996	3670	0988
HSK 50 A - ER 32/H 100	6041					
HSK 50 A - ER 32/H 160	6043					
HSK 50 A - ER 40/H 75	6247	63	3 ÷ 30	4997	3671	0821
HSK 50 A - ER 40/H 100	6248					
HSK 50 A - ER 40/H 160	6249					
HSK 63 A - ER 16/H 70	6044	32	1 ÷ 10	4993	3698	0364
HSK 63 A - ER 16/H 100	6045					
HSK 63 A - ER 16/H 130	6046					
HSK 63 A - ER 16/H 160	6047					
HSK 63 A - ER 16/H 200	6747					
HSK 63 A - ER 20/H 70	6048	35	1 ÷ 13	4994	3699	0787
HSK 63 A - ER 20/H 100	6049					
HSK 63 A - ER 20/H 130	6050					
HSK 63 A - ER 20/H 160	6051					
HSK 63 A - ER 20/H 200	6751					
HSK 63 A - ER 25/H 70	6052	42	1 ÷ 16	4995	3669	0996
HSK 63 A - ER 25/H 100	6053					
HSK 63 A - ER 25/H 130	6054					
HSK 63 A - ER 25/H 160	6055					
HSK 63 A - ER 25/H 200	6755					
HSK 63 A - ER 32/H 75	6056	50	2 ÷ 20	4996	3670	0988
HSK 63 A - ER 32/H 100	6057					
HSK 63 A - ER 32/H 130	6058					
HSK 63 A - ER 32/H 160	6059					
HSK 63 A - ER 32/H 200	6785					
HSK 63 A - ER 40/H 80	6060	63	3 ÷ 30	4997	3671	0821
HSK 63 A - ER 40/H 120	6061					
HSK 63 A - ER 40/H 160	6062					
HSK 63 A - ER 40/H 200	6790					
HSK 63 A - ER 50/H 105	6064	78	6 ÷ 34	4998	3668	4055
HSK 100 A - ER 16/H 100	6464	32	1 ÷ 10	4993	3698	0364
HSK 100 A - ER 16/H 160	6465					
HSK 100 A - ER 16/H 200	6466					
HSK 100 A - ER 20/H 100	6467	35	1 ÷ 13	4994	3699	0787
HSK 100 A - ER 20/H 160	6468					
HSK 100 A - ER 20/H 200	6469					
HSK 100 A - ER 25/H 100	6063	42	1 ÷ 16	4995	3669	0996
HSK 100 A - ER 25/H 160	6065					
HSK 100 A - ER 25/H 200	6066					
HSK 100 A - ER 32/H 100	6067	50	2 ÷ 20	4996	3670	0988
HSK 100 A - ER 32/H 160	6069					
HSK 100 A - ER 32/H 200	6070					
HSK 100 A - ER 40/H 120	6071	63	3 ÷ 30	4997	3671	0821
HSK 100 A - ER 40/H 160	6072					
HSK 100 A - ER 40/H 200	6076					
HSK 100 A - ER 50/H 130	6068	78	6 ÷ 34	4998	3668	4055

HSK A + C

MANDRINI PER PINZE EOC DIN 6388 DIN 6388 COLLET CHUCKS

Balanced G 6,3
15.000 rpm



TIPO	Art.	A	CAPACITA'			
HSK 50 A - EOC 16 / H 100	6090	43	2 ÷ 16	4067	2883	0768
HSK 50 A - EOC 25 / H 100	6091	60	2 ÷ 25	4068	2909	0769
HSK 63 A - EOC 16 / H 100	6092	43	2 ÷ 16	4067	2883	0768
HSK 63 A - EOC 25 / H 100	6093	60	2 ÷ 25	4068	2909	0769
HSK 63 A - EOC 32 / H 120	6094	72	3 ÷ 32	4069	2910	0770
HSK 100 A - EOC 16 / H 110	6095	43	2 ÷ 16	4067	2883	0768
HSK 100 A - EOC 25 / H 120	6096	60	2 ÷ 25	4068	2909	0769
HSK 100 A - EOC 32 / H 130	6097	72	3 ÷ 32	4069	2910	0770

Dove trovare questi Articoli

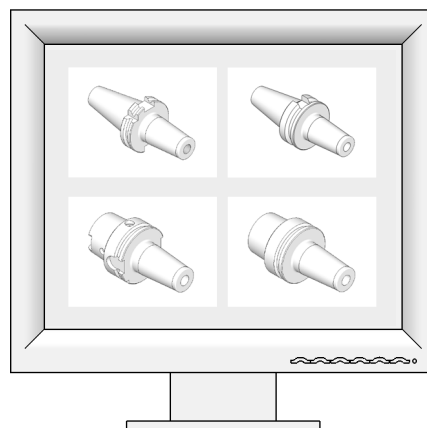
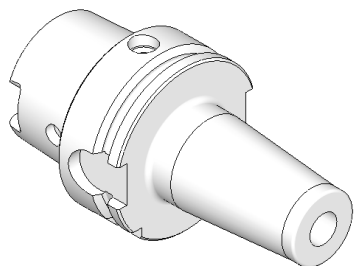
Where to find those Items

	Pinze EOC - DIN 6388 - pag. 28 EOC - DIN 6388 Collets - page 28
	Ghiere EOC - DIN 6388 - pag. 30 EOC - DIN 6388 Nuts - page 30
	Chiavi per ghiere EOC - pag. 30 EOC Wrenches - page 30

HSK A + C

MANDRINI CON CALETTAMENTO A CALDO SHRINK FIT CHUCKS

Balanced G 6,3
15.000 rpm

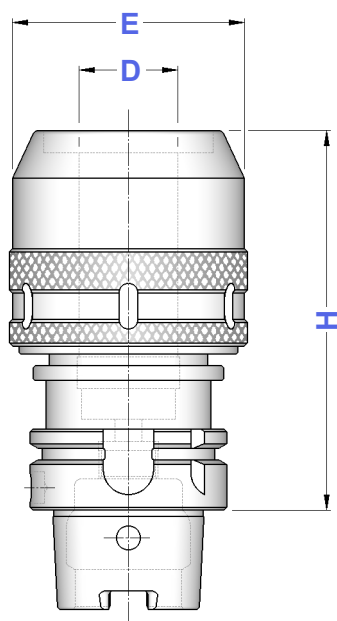


Brochure in preparazione
Brochure under preparation

HSK A + C

MANDRINI A FORTE SERRAGGIO HIGH GRIP CHUCKS

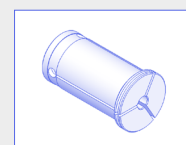
Balanced G 6,3
12.000 rpm



TIPO	Art.	H	D	E		
HSK 40 A - PC 20	6240	100	20	54	2900	0809
HSK 50 A - PC 20	6241	105	20	54	2900	0809
HSK 63 A - PC 20	6243	105	20	54	2900	0809
HSK 63 A - PC 32	6244	120	32	72	2910	0810
HSK 100 A - PC 20	6245	110	20	54	2900	0809
HSK 100 A - PC 32	6246	120	32	72	2910	0810

**Pinze cilindriche di riduzione
per Mandrini a Forte Serraggio
a pag. 31**

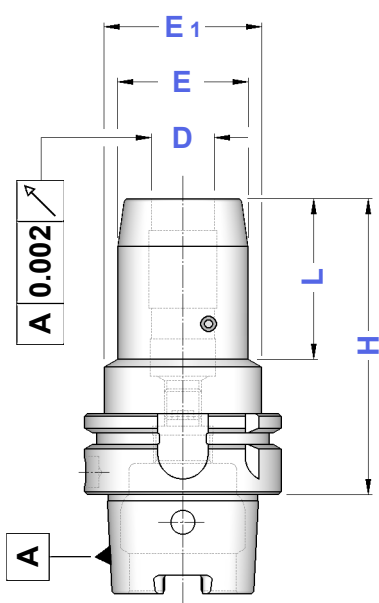
*Reduction cylindrical collets
for High Grip Chucks on page 31*



HSK A + C

MANDRINI A SERRAGGIO IDRAULICO HYDRAULIC CHUCKS

Balanced G 2,5
20.000 rpm



TIPO	Art.	D	H	E	E1	L	
HSK 50 A - HYDRO 20	6411	20	90	42	60	29	0521
HSK 63 A - HYDRO 6	6412	6	70	26	50	24	—
HSK 63 A - HYDRO 8	6413	8	70	28	50	24	—
HSK 63 A - HYDRO 10	6414	10	80	30	50	32	—
HSK 63 A - HYDRO 12	6415	12	85	32	50	40	0520
HSK 63 A - HYDRO 16	6417	16	90	38	50	46	—
HSK 63 A - HYDRO 20	6419	20	90	42	50	48	0521
HSK 63 A - HYDRO 25	6420	25	120	57	53	63	—
HSK 63 A - HYDRO 32	6421	32	125	63	59	61	0522

Applicazioni: consente il bloccaggio ad alta precisione di utensili a gambo cilindrico DIN 1835 Forma A e B, con tolleranza di gambo h 6 e rugosità Ra < 0,3 micron

Attenzione: non azionare il sistema idraulico se l'utensile non è inserito nel mandrino

Applications: allows high precision locking of DIN 1835 shank tools Form A and B, with shank tolerance h 6 and surface roughness Ra < 0,3 micron.

Warning: do not start Hydraulic System without any tool fit inside



Balanced G 6,3
15.000 rpm

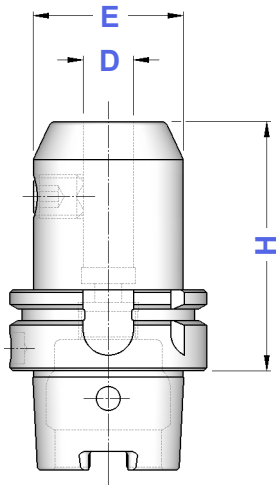


Figura 1

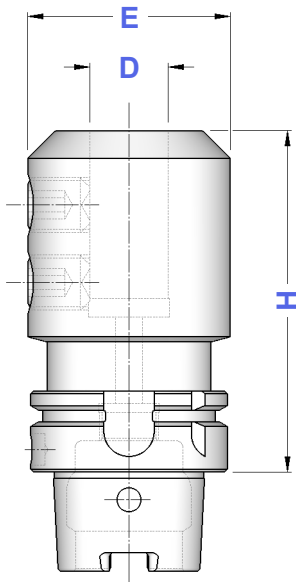


Figura 2

TIPO	Art.	D	H	E	Fig.		
HSK 32 A - WE 6/H 60	6100	6	60	25	1	4970	
HSK 32 A - WE 8/H 60	6101	8	60	28	1	4971	
HSK 32 A - WE 10/H 65	6102	10	65	35	1	4972	
HSK 32 A - WE 12/H 75	6103	12	75	42	1	4973	
HSK 32 A - WE 14/H 75	6104	14	75	44	1	4973	
HSK 32 A - WE 16/H 75	6105	16	75	48	1	4974	
HSK 40 A - WE 6/H 60	6110	6	60	25	1	4970	
HSK 40 A - WE 6/H 100	6111		100	18		0020	
HSK 40 A - WE 6/H 160	6125		160				
HSK 40 A - WE 8/H 60	6112	8	60	28	1	4971	
HSK 40 A - WE 8/H 100	6113		100	22		0021	
HSK 40 A - WE 8/H 160	6126		160				
HSK 40 A - WE 10/H 65	6114	10	65	35	1	4972	
HSK 40 A - WE 10/H 100	6127		100	30		0060	
HSK 40 A - WE 10/H 160	6115		160				
HSK 40 A - WE 12/H 70	6116	12	70	42	1	4973	
HSK 40 A - WE 12/H 100	6128		100	34		0260	
HSK 40 A - WE 12/H 160	6117		160				
HSK 40 A - WE 14/H 70	6118	14	70	44	1	4973	
HSK 40 A - WE 16/H 80	6120	16	80	48	1	4974	
HSK 40 A - WE 18/H 80	6122	18	80	50	1	4974	
HSK 40 A - WE 20/H 80	6124	20	80	52	1	4975	
HSK 50 A - WE 6/H 65	6130	6	65	25	1	4970	
HSK 50 A - WE 6/H 100	6131		100	18		0020	
HSK 50 A - WE 6/H 160	6937		160				
HSK 50 A - WE 8/H 65	6132	8	65	28	1	4971	
HSK 50 A - WE 8/H 100	6133		100	22		0021	
HSK 50 A - WE 8/H 160	6938		160				
HSK 50 A - WE 10/H 65	6134	10	65	35	1	4972	
HSK 50 A - WE 10/H 100	6939		100	30		0060	
HSK 50 A - WE 10/H 160	6135		160				
HSK 50 A - WE 12/H 80	6136	12	80	42	1	4973	
HSK 50 A - WE 12/H 100	6956		100	34		0260	
HSK 50 A - WE 12/H 160	6137		160				
HSK 50 A - WE 14/H 80	6138	14	80	44	1	4973	
HSK 50 A - WE 14/H 100	6139		100	36		0260	
HSK 50 A - WE 14/H 160	6957		160				
HSK 50 A - WE 16/H 80	6140	16	80	48	1	4974	
HSK 50 A - WE 16/H 100	6958		100	42		0261	
HSK 50 A - WE 16/H 160	6141		160				
HSK 50 A - WE 18/H 80	6142	18	80	50	1	4974	
HSK 50 A - WE 18/H 100	6143		100				
HSK 50 A - WE 18/H 160	6959		160				
HSK 50 A - WE 20/H 80	6144	20	80	52	1	4975	
HSK 50 A - WE 20/H 100	6145		100				
HSK 50 A - WE 20/H 160	6148		160				
HSK 50 A - WE 25/H 105	6146	25	105	65	2	4976	
HSK 50 A - WE 25/H 160	6149		160				
HSK 50 A - WE 32/H 120	6147	32	120	72	2	4977	

segue →

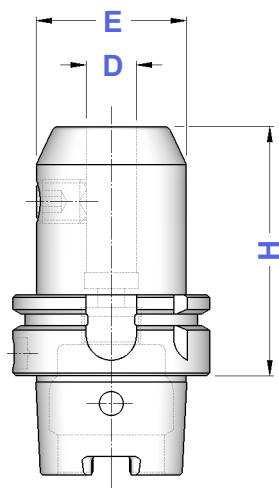


Figura 1

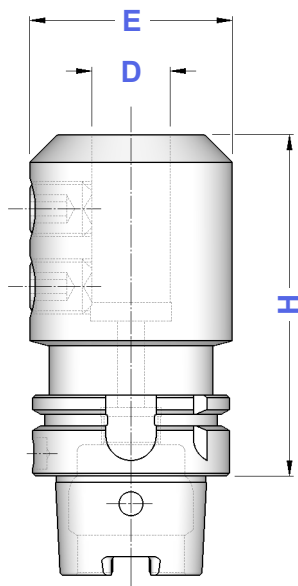


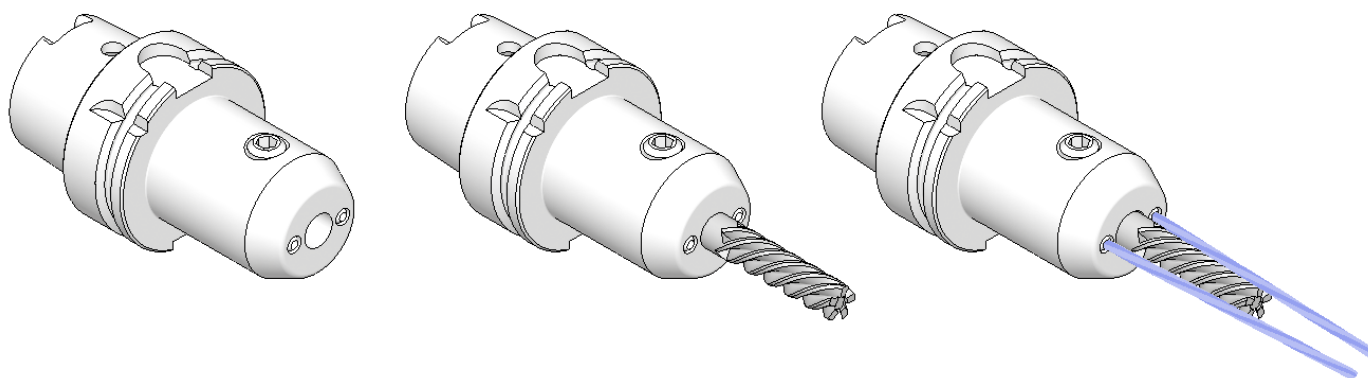
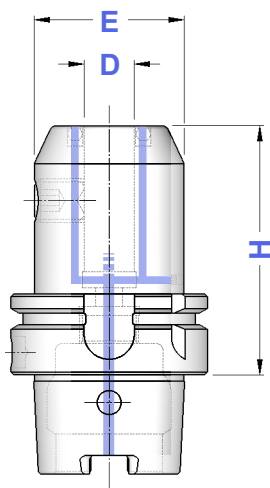
Figura 2

TIPO	Art.	D	H	E	Fig.			
HSK 63 A - WE 6/H 65	6150	6	65	25	1	4970		
HSK 63 A - WE 6/H 100	6966			18		0020		
HSK 63 A - WE 6/H 160	6151			160				
HSK 63 A - WE 8/H 65	6152	8	65	28	1	4971		
HSK 63 A - WE 8/H 100	6967			22		0021		
HSK 63 A - WE 8/H 160	6153			160				
HSK 63 A - WE 10/H 65	6154	10	65	35	1	4972		
HSK 63 A - WE 10/H 100	6968			30		0060		
HSK 63 A - WE 10/H 160	6155			160				
HSK 63 A - WE 12/H 80	6156	12	80	42	1	4973		
HSK 63 A - WE 12/H 100	6969			34		0260		
HSK 63 A - WE 12/H 160	6157			160				
HSK 63 A - WE 14/H 80	6158	14	80	44	1	4973		
HSK 63 A - WE 14/H 100	6159			36		0260		
HSK 63 A - WE 14/H 160	6970			160				
HSK 63 A - WE 16/H 80	6160	16	80	48	1	4974		
HSK 63 A - WE 16/H 100	6971			42		0261		
HSK 63 A - WE 16/H 160	6161			160				
HSK 63 A - WE 18/H 80	6162	18	80	50	1	4974		
HSK 63 A - WE 18/H 100	6163			44		0261		
HSK 63 A - WE 18/H 160	6972			160				
HSK 63 A - WE 20/H 80	6164	20	80	52	1	4975		
HSK 63 A - WE 20/H 100	6973			45		0070		
HSK 63 A - WE 20/H 160	6165			160				
HSK 63 A - WE 25/H 110	6166	25	110	65	2	4976		
HSK 63 A - WE 25/H 160	6167						160	
HSK 63 A - WE 32/H 110	6168	32	110	72	2	4977		
HSK 63 A - WE 32/H 160	6169						160	
HSK 63 A - WE 40/H 120	6974	40	120	80	2	4977		
HSK 63 A - WE 40/H 160	6980						160	
HSK 100 A - WE 6/H 80	6170	6	80	25	1	4970		
HSK 100 A - WE 6/H 160	6171						160	
HSK 100 A - WE 8/H 80	6172	8	80	28	1	4971		
HSK 100 A - WE 8/H 160	6173						160	
HSK 100 A - WE 10/H 80	6174	10	80	35	1	4972		
HSK 100 A - WE 10/H 160	6175						160	
HSK 100 A - WE 12/H 80	6176	12	80	42	1	4973		
HSK 100 A - WE 12/H 160	6177						160	
HSK 100 A - WE 14/H 80	6178	14	80	44	1	4973		
HSK 100 A - WE 14/H 160	6179						160	
HSK 100 A - WE 16/H 100	6180	16	100	48	1	4974		
HSK 100 A - WE 16/H 160	6181						160	
HSK 100 A - WE 18/H 100	6182	18	100	50	1	4974		
HSK 100 A - WE 18/H 160	6183						160	
HSK 100 A - WE 20/H 100	6184	20	100	52	1	4975		
HSK 100 A - WE 20/H 160	6185						160	
HSK 100 A - WE 20/H 200	6239						200	
HSK 100 A - WE 25/H 100	6186	25	100	65	2	4976		
HSK 100 A - WE 25/H 160	6187						160	
HSK 100 A - WE 25/H 200	6242						200	
HSK 100 A - WE 32/H 100	6188	32	100	72	2	4977		
HSK 100 A - WE 32/H 160	6189						160	
HSK 100 A - WE 32/H 200	6265						200	
HSK 100 A - WE 40/H 105	6190	40	105	80	2	4977		
HSK 100 A - WE 40/H 160	6192						160	
HSK 100 A - WE 40/H 200	6266						200	
HSK 100 A - WE 50/H 130	6191	50	130	95	2	4978		
HSK 100 A - WE 50/H 160	6285						160	



Balanced G 6,3
15.000 rpm

TIPO	Art.	D	H	E	
HSK 63A - WEC 6 / H 65	6912	6	65	25	4970
HSK 63A - WEC 8 / H 65	6913	8	65	28	4971
HSK 63A - WEC 10 / H 65	6914	10	65	35	4972
HSK 63A - WEC 12 / H 80	6915	12	80	42	4973
HSK 63A - WEC 14 / H 80	6916	14	80	44	4973
HSK 63A - WEC 16 / H 80	6917	16	80	48	4974
HSK 63A - WEC 18 / H 80	6918	18	80	50	4974
HSK 63A - WEC 20 / H 80	6919	20	80	52	4975
HSK 63A - WEC 25 / H 110	6920	25	110	65	4976
HSK 63A - WEC 32 / H 110	6921	32	110	72	4977



Dove trovare questi Articoli

Where to find those Items



Ugelli a sfera - pag. 263
Sphere coolant nozzles - page 263



Prolunghe per ugelli - pag. 263
Extensions for coolant nozzles - page 263



Balanced G 6,3
15.000 rpm

TIPO	Art.	D	H	E	Fig.	G1	G2
HSK 63 A - WN 6/H 80	6218	6	80	25	1	0233	4970
HSK 63 A - WN 8/H 80	6219	8	80	28	1	0235	4971
HSK 63 A - WN10/H 80	6220	10	80	35	1	0238	4972
HSK 63 A - WN12/H 90	6221	12	90	42	1	0240	4973
HSK 63 A - WN14/H 90	6222	14	90	44	1	0240	4973
HSK 63 A - WN16/H 100	6223	16	100	48	1	0245	4974
HSK 63 A - WN18/H 100	6224	18	100	50	1	0245	4974
HSK 63 A - WN20/H 100	6225	20	100	52	1	0245	4975
HSK 63 A - WN25/H 110	6226	25	110	65	2	0247	4976
HSK 63 A - WN32/H 115	6227	32	115	72	2	0247	4977
HSK 100 A - WN 6/H 90	6228	6	90	25	1	0233	4970
HSK 100 A - WN 8/H 90	6229	8	90	28	1	0235	4971
HSK 100 A - WN10/H 90	6230	10	90	35	1	0238	4972
HSK 100 A - WN12/H 100	6231	12	100	42	1	0240	4973
HSK 100 A - WN14/H 100	6232	14	100	44	1	0240	4973
HSK 100 A - WN16/H 100	6233	16	100	48	1	0245	4974
HSK 100 A - WN18/H 100	6234	18	100	50	1	0245	4974
HSK 100 A - WN20/H 110	6235	20	110	52	1	0245	4975
HSK 100 A - WN25/H 120	6236	25	120	65	2	0247	4976
HSK 100 A - WN32/H 120	6237	32	120	72	2	0247	4977
HSK 100 A - WN 40/H 120	6238	40	120	80	2	0247	4977

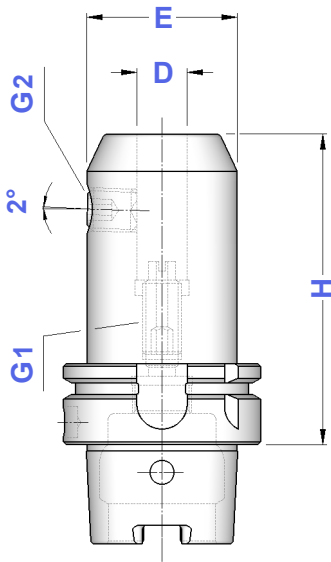


Figura 1

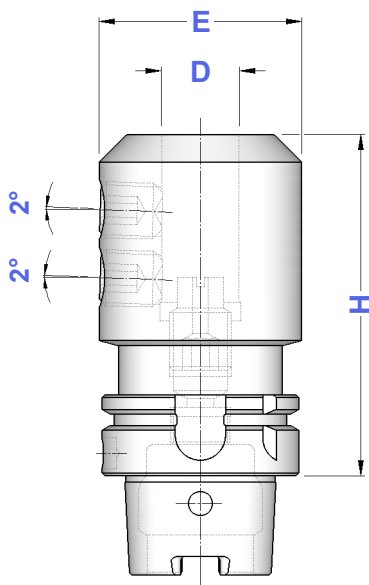
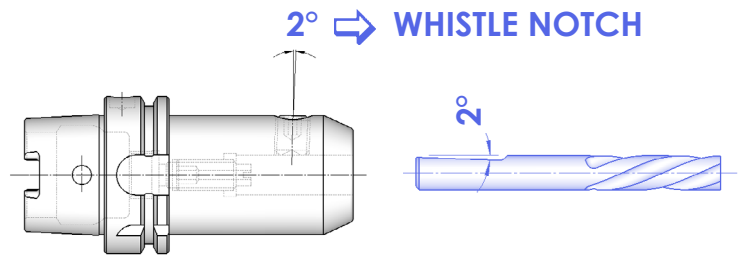


Figura 2



Dove trovare questi Articoli

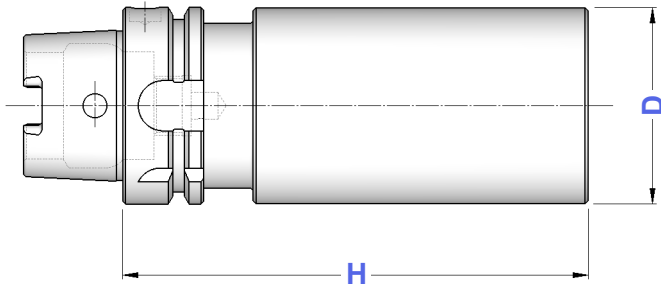
Where to find those Items



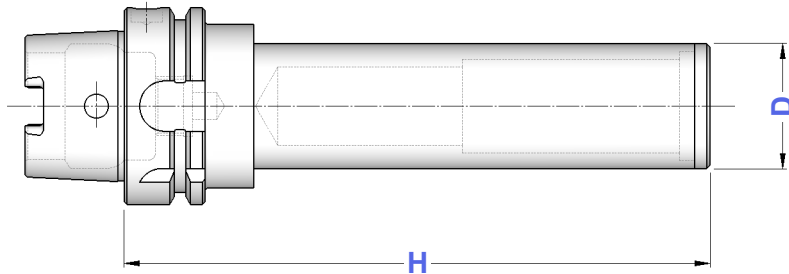
Grani di bloccaggio - pag. 197
Locking screws - page 197



Grani di bloccaggio - pag. 199
Locking screws - page 199

**HSK
A + C****BARRE A STELO TENERO**
BLANK BARS**HSK**

TIPO	Art.	H	D
HSK 32 A - D.35	6440	150	35
HSK 40 A - D.40	6441	150	40
HSK 40 A - D.52	6442	200	52
HSK 50 A - D.52	6443	200	52
HSK 50 A - D.63	6444	200	63
HSK 63 A - D.63	6445	250	63
HSK 63 A - D.80	6446	250	80
HSK 100 A - D.63	6447	200	63
HSK 100 A - D.80	6448	250	80
HSK 100 A - D.90	6449	300	90

**HSK
A + C****BARRE DI CONTROLLO**
TEST ARBORS

TIPO	Art.	H	D
HSK 32 A - D.32 SC	6495	300	32
HSK 40 A - D.32 SC	6496	300	32
HSK 50 A - D.40 SC	6497	300	40
HSK 63 A - D.40 SC	6498	380	40
HSK 100 A - D.40 SC	6499	350	40

Tolleranze della barra

- Rettilineità = 0,003
- Rotondità in rotazione = 0,003
- Cilindricità = 0,003

Bars tolerance

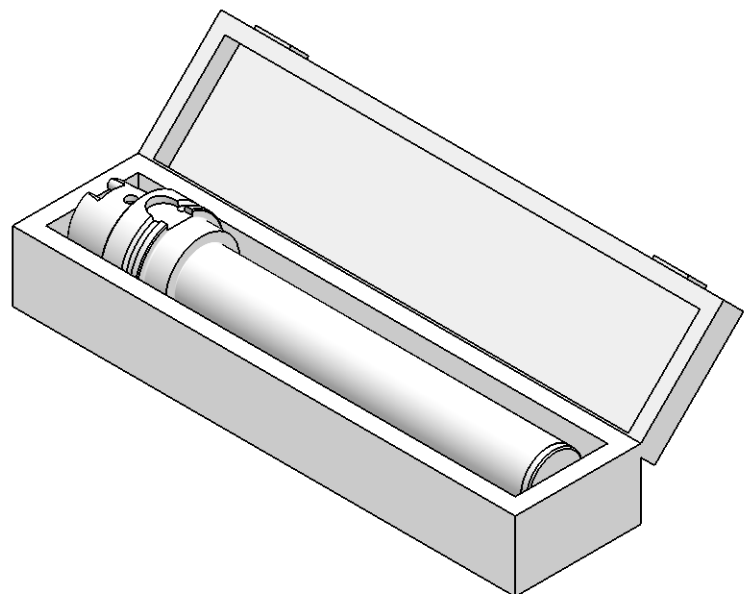
- Straightnes = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

Dati costruttivi

- Costruite in acciaio da cementazione certificato
- Cementate con profondità 0,4 - 0,5 mm
- Temprate, rinvenute, brunite
- Durezza HRC 58 ± 2, resistenza 800-1000 N/mm²
- Finitura di rettifica esterna
- Collaudate 100% con strumenti di misura certificati

Constructive Features

- Manufactured with casehardening steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened, tempered, black oxidized
- Hardnes HRC 58 ± 2, strenght 800-1000 N/mm²
- External grinding finish
- Tested 100% with certified measuring instruments

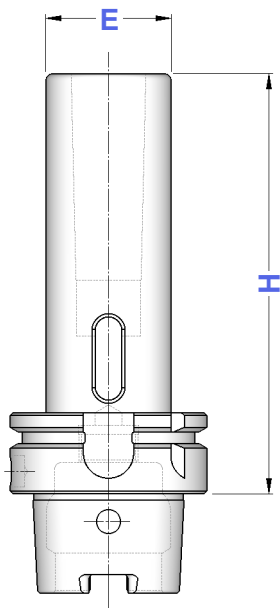


HSK A + C

RIDUZIONI A CONO MORSE PER PUNTE

MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

Balanced G 6,3
8.000 rpm



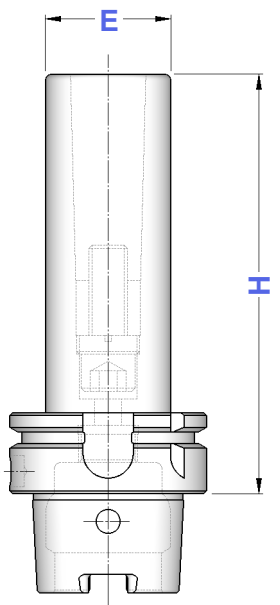
TIPO	Art.	CM	H	E
HSK 40 A - CM 1 PUNTE	6250	1	95	25
HSK 40 A - CM 2 PUNTE	6251	2	110	32
HSK 40 A - CM 3 PUNTE	6252	3	135	38
HSK 50 A - CM 1 PUNTE	6253	1	100	25
HSK 50 A - CM 2 PUNTE	6254	2	120	32
HSK 50 A - CM 3 PUNTE	6255	3	140	40
HSK 63 A - CM 1 PUNTE	6256	1	100	25
HSK 63 A - CM 2 PUNTE	6257	2	115	32
HSK 63 A - CM 3 PUNTE	6258	3	135	40
HSK 63 A - CM 4 PUNTE	6259	4	160	48
HSK 100 A - CM 1 PUNTE	6260	1	110	25
HSK 100 A - CM 2 PUNTE	6261	2	120	32
HSK 100 A - CM 3 PUNTE	6262	3	150	40
HSK 100 A - CM 4 PUNTE	6263	4	170	48
HSK 100 A - CM 5 PUNTE	6264	5	200	63

HSK A + C

RIDUZIONI A CONO MORSE PER FRESE

MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK

Balanced G 6,3
8.000 rpm



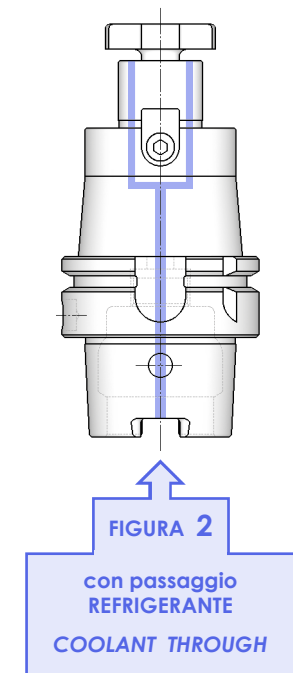
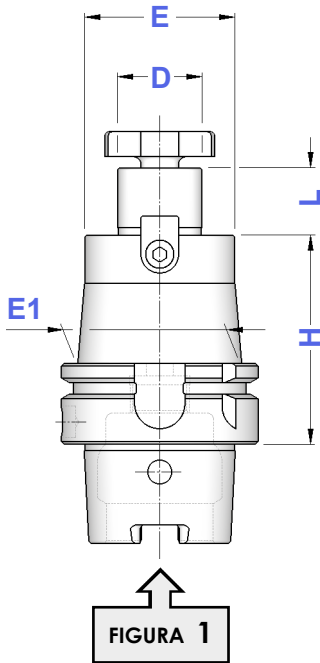
TIPO	Art.	CM	H	E	
HSK 40 A - CM 1 FRESE	6275	1	95	25	—
HSK 40 A - CM 2 FRESE	6276	2	110	32	4569
HSK 40 A - CM 3 FRESE	6277	3	135	38	4570
HSK 50 A - CM 1 FRESE	6278	1	100	25	—
HSK 50 A - CM 2 FRESE	6279	2	120	32	4569
HSK 50 A - CM 3 FRESE	6280	3	140	40	4570
HSK 63 A - CM 1 FRESE	6281	1	100	25	—
HSK 63 A - CM 2 FRESE	6282	2	115	32	4569
HSK 63 A - CM 3 FRESE	6283	3	135	40	4570
HSK 63 A - CM 4 FRESE	6284	4	160	48	4571
HSK 100 A - CM 2 FRESE	6286	2	120	32	4569
HSK 100 A - CM 3 FRESE	6287	3	150	40	4570
HSK 100 A - CM 4 FRESE	6288	4	170	48	4571
HSK 100 A - CM 5 FRESE	6289	5	200	63	4572



HSK A + C

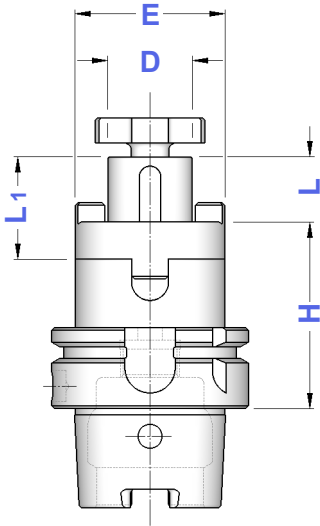
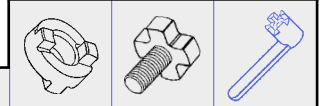
PORTAFRESE FISSI DIN 6357 FACE MILL HOLDERS

Balanced	G 6,3
≤ H160	15.000 rpm
> H160	8.000 rpm



TIPO	FIGURA		D	L	E	E1	4985	4562
	Art.	Art.						
HSK 32 A - D. 16 FISSO/ H 45	6298	—	16	17	38	38	4985	4562
HSK 32 A - D. 22 FISSO/ H 50	6299	—	22	19	48	48	4986	4563
HSK 40 A - D. 16 FISSO/ H 45	6300	6556	16	17	38	38	4985	4562
HSK 40 A - D. 22 FISSO/ H 50	6302	6557	22	19	48	48	4986	4563
HSK 40 A - D. 27 FISSO/ H 55	6304	6558	27	21	58	58	4987	4564
HSK 50 A - D. 16 FISSO/ H 50	6306	6559	16	17	38	38	4985	4562
HSK 50 A - D. 22 FISSO/ H 60	6309	6560	22	19	48	48	4986	4563
HSK 50 A - D. 27 FISSO/ H 60	6312	6561	27	21	58	58	4987	4564
HSK 50 A - D. 32 FISSO/ H 60	6315	6562	32	24	66	66	4988	4565
HSK 50 A - D. 40 FISSO/ H 70	6316	6540	40	27	80	80	4989	4566
HSK 63 A - D. 16 FISSO/ H 50	6317	6563	16	17	38	38	4985	4562
HSK 63 A - D. 16 FISSO/ H 100	6318	6547						
HSK 63 A - D. 16 FISSO/ H 160	6319	6549						
HSK 63 A - D. 16 FISSO/ H 200	6519	6811						
HSK 63 A - D. 22 FISSO/ H 50	6320	6564	22	19	48	48	4986	4563
HSK 63 A - D. 22 FISSO/ H 100	6321	6554						
HSK 63 A - D. 22 FISSO/ H 160	6322	6555						
HSK 63 A - D. 22 FISSO/ H 200	6522	6812						
HSK 63 A - D. 27 FISSO/ H 60	6323	6565	27	21	58	58	4987	4564
HSK 63 A - D. 27 FISSO/ H 100	6324	6601						
HSK 63 A - D. 27 FISSO/ H 160	6325	6603						
HSK 63 A - D. 27 FISSO/ H 200	6525	6813						
HSK 63 A - D. 32 FISSO/ H 60	6326	6566	32	24	66	66	4988	4565
HSK 63 A - D. 32 FISSO/ H 100	6327	6605						
HSK 63 A - D. 32 FISSO/ H 160	6328	6607						
HSK 63 A - D. 40 FISSO/ H 60	6329	6567						
HSK 63 A - D. 40 FISSO/ H 100	6330	6609	40	27	88	88	4989	4566
HSK 63 A - D. 40 FISSO/ H 160	6331	6611						
HSK 100 A - D. 16 FISSO/ H 50	6332	6568						
HSK 100 A - D. 16 FISSO/ H 100	6333	6613	43					
HSK 100 A - D. 16 FISSO/ H 160	6334	6615	47					
HSK 100 A - D. 16 FISSO/ H 200	6349	6617	48					
HSK 100 A - D. 16 FISSO/ H 250	6351	6618						
HSK 100 A - D. 22 FISSO/ H 50	6335	6569	22	19	48	48	4986	4563
HSK 100 A - D. 22 FISSO/ H 100	6336	6620				53		
HSK 100 A - D. 22 FISSO/ H 160	6337	6621				56		
HSK 100 A - D. 22 FISSO/ H 200	6353	6623				58		
HSK 100 A - D. 22 FISSO/ H 250	6355	6624						
HSK 100 A - D. 27 FISSO/ H 50	6338	6570	27	21	58	58	4987	4564
HSK 100 A - D. 27 FISSO/ H 100	6339	6626				66		
HSK 100 A - D. 27 FISSO/ H 160	6340	6627				67		
HSK 100 A - D. 27 FISSO/ H 200	6357	6629				68		
HSK 100 A - D. 27 FISSO/ H 250	6358	6630						
HSK 100 A - D. 32 FISSO/ H 50	6341	6571	32	24	66	66	4988	4565
HSK 100 A - D. 32 FISSO/ H 100	6342	6632				74		
HSK 100 A - D. 32 FISSO/ H 160	6343	6633				75		
HSK 100 A - D. 32 FISSO/ H 200	6360	6635				77		
HSK 100 A - D. 32 FISSO/ H 250	6361	6636						
HSK 100 A - D. 40 FISSO/ H 60	6344	6572	40	27	80	80	4989	4566
HSK 100 A - D. 40 FISSO/ H 100	6345	6638						
HSK 100 A - D. 40 FISSO/ H 160	6346	6639						
HSK 100 A - D. 40 FISSO/ H 200	6347	6642						
HSK 100 A - D. 40 FISSO/ H 250	6348	6644						

Balanced G 6,3
8.000 rpm

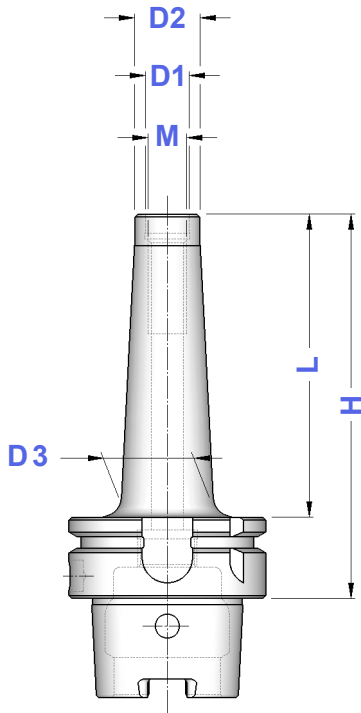


TIPO	Art.	D	L1	L	E			
HSK 40 A - D.16 C / H 45	6350	16	27	17	32	4090	4985	4562
HSK 40 A - D.22 C / H 55	6352	22	31	19	40	4091	4986	4563
HSK 40 A - D.27 C / H 65	6354	27	33	21	48	4092	4987	4564
HSK 50 A - D.16 C / H 50	6356	16	27	17	32	4090	4985	4562
HSK 50 A - D.22 C / H 50	6359	22	31	19	40	4091	4986	4563
HSK 50 A - D.27 C / H 65	6362	27	33	21	48	4092	4987	4564
HSK 50 A - D.32 C / H 65	6365	32	38	24	58	4093	4988	4565
HSK 50 A - D.40 C / H 75	6366	40	41	27	70	4094	4989	4566
HSK 63 A - D.16 C / H 60	6368	16	27	17	32	4090	4985	4562
HSK 63 A - D.16 C / H 100	6369							
HSK 63 A - D.16 C / H 160	6370							
HSK 63 A - D.22 C / H 60	6371	22	31	19	40	4091	4986	4563
HSK 63 A - D.22 C / H 100	6372							
HSK 63 A - D.22 C / H 160	6373							
HSK 63 A - D.27 C / H 60	6374	27	33	21	48	4092	4987	4564
HSK 63 A - D.27 C / H 100	6375							
HSK 63 A - D.27 C / H 160	6376							
HSK 63 A - D.32 C / H 65	6377	32	38	24	58	4093	4988	4565
HSK 63 A - D.32 C / H 100	6378							
HSK 63 A - D.32 C / H 160	6379							
HSK 63 A - D.40 C / H 70	6380	40	41	27	70	4094	4989	4566
HSK 63 A - D.40 C / H 100	6381							
HSK 63 A - D.40 C / H 160	6382							
HSK 100 A - D.16 C / H 60	6383	16	27	17	32	4090	4985	4562
HSK 100 A - D.16 C / H 100	6384							
HSK 100 A - D.16 C / H 160	6385							
HSK 100 A - D.22 C / H 60	6386	22	31	19	40	4091	4986	4563
HSK 100 A - D.22 C / H 100	6387							
HSK 100 A - D.22 C / H 160	6388							
HSK 100 A - D.27 C / H 60	6389	27	33	21	48	4092	4987	4564
HSK 100 A - D.27 C / H 100	6390							
HSK 100 A - D.27 C / H 160	6391							
HSK 100 A - D.32 C / H 60	6392	32	38	24	58	4093	4988	4565
HSK 100 A - D.32 C / H 100	6393							
HSK 100 A - D.32 C / H 160	6394							
HSK 100 A - D.40 C / H 70	6395	40	41	27	70	4094	4989	4566
HSK 100 A - D.40 C / H 100	6396							
HSK 100 A - D.40 C / H 160	6397							

Dove trovare questi Articoli Where to find those Items

	Giunti di trascinamento - pag. 194 Clutch drive rings - page 194
	Viti testa a croce - pag. 194 Cross head screws - page 194
	Chiavi per testa a croce - pag. 194 Wrenches for cross head - page 194

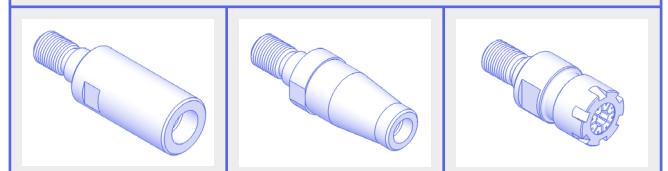
Balanced G 2,5
20.000 rpm



TIPO	Art.	M	D1	D2	D3	H	L
HSK 50 A - M 6 / H 59	6645	M 6	6,5	10	10	59	33
HSK 50 A - M 6 / H 84	6647				20	84	58
HSK 50 A - M 6 / H 109	6648				23	109	83
HSK 50 A - M 8 / H 59	6650	M 8	8,5	13	15	59	33
HSK 50 A - M 8 / H 84	6651				23	84	58
HSK 50 A - M 8 / H 109	6653				23	109	83
HSK 50 A - M 8 / H 134	6654				25	134	108
HSK 50 A - M 10 / H 59	6656	M 10	10,5	18	20	59	33
HSK 50 A - M 10 / H 84	6657				25	84	58
HSK 50 A - M 10 / H 109	6659				28	109	83
HSK 50 A - M 10 / H 134	6660				30	134	108
HSK 50 A - M 12 / H 59	6662	M 12	12,5	21	24	59	33
HSK 50 A - M 12 / H 84	6663				24	84	58
HSK 50 A - M 12 / H 109	6665				31	109	83
HSK 50 A - M 12 / H 134	6666				31	134	108
HSK 63 A - M 6 / H 59	6669	M 6	6,5	10	10	59	33
HSK 63 A - M 6 / H 84	6671				20	84	58
HSK 63 A - M 6 / H 109	6672				23	109	83
HSK 63 A - M 8 / H 59	6673	M 8	8,5	13	15	59	33
HSK 63 A - M 8 / H 76	6674				23	76	50
HSK 63 A - M 8 / H 101	6675				23	101	75
HSK 63 A - M 8 / H 126	6676				26	126	100
HSK 63 A - M 10 / H 59	6677	M 10	10,5	18	19,5	59	33
HSK 63 A - M 10 / H 76	6678				23	76	50
HSK 63 A - M 10 / H 101	6679				28	101	75
HSK 63 A - M 10 / H 126	6680				32	126	100
HSK 63 A - M 10 / H 159	6681				34	159	133
HSK 63 A - M 12 / H 59	6682	M 12	12,5	21	24	59	33
HSK 63 A - M 12 / H 76	6683				24	76	50
HSK 63 A - M 12 / H 101	6684				31	101	75
HSK 63 A - M 12 / H 126	6685				33	126	100
HSK 63 A - M 12 / H 159	6686				31	159	133
HSK 63 A - M 12 / H 184	6687				39	184	158
HSK 63 A - M 12 / H 209	6701				42	209	183
HSK 63 A - M 16 / H 59	6688				M 16	17,0	29
HSK 63 A - M 16 / H 76	6689	34	76	50			
HSK 63 A - M 16 / H 101	6690	34	101	75			
HSK 63 A - M 16 / H 126	6691	36	126	100			
HSK 63 A - M 16 / H 159	6692	39	159	133			
HSK 63 A - M 16 / H 184	6693	39	184	158			
HSK 63 A - M 16 / H 209	6703	42	209	183			
HSK 100 A - M 12 / H 87	6694	M 12	12,5	21	24	87	58
HSK 100 A - M 12 / H 137	6695				47	137	108
HSK 100 A - M 12 / H 187	6696				55	187	158
HSK 100 A - M 16 / H 87	6697	M 16	17,0	29	32	87	58
HSK 100 A - M 16 / H 137	6698				42	137	108
HSK 100 A - M 16 / H 187	6699				55	187	158
HSK 100 A - M 16 / H 237	6705				55	237	208

Prolunghe, Riduzioni, Portapinze ER con attacco filettato a pag. 43

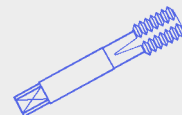
Extensions, Reductions, ER Collet Chucks
with threaded shank from page 43



HSK A + C

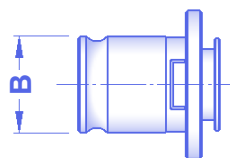
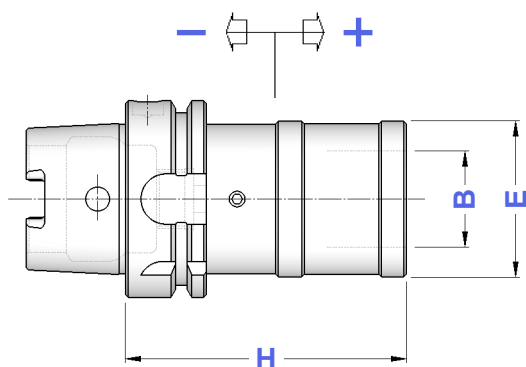
MASCHIATORI A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE

DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS



TIPO	Art.	H	E	B	COMPENSAZIONE	
HSK 40 A - B. 1	6450	80	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
HSK 40 A - B. 2	6451	100	53	31	- 10,0 + 10,0	M 6 ÷ M 20 (*M30)
HSK 50 A - B. 1	6452	80	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
HSK 50 A - B. 2	6453	130	53	31	- 10,0 + 10,0	M 6 ÷ M 20 (*M30)
HSK 63 A - B. 1	6454	80	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
HSK 63 A - B. 2	6455	130	53	31	- 10,0 + 10,0	M 6 ÷ M 20 (*M30)
HSK 63 A - B. 3	6456	165	78	48	- 17,5 + 17,5	M14 ÷ M 33 (*M48)
HSK 100 A - B. 1	6457	80	36	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
HSK 100 A - B. 2	6458	110	53	31	- 10,0 + 10,0	M 6 ÷ M 20 (*M30)
HSK 100 A - B. 3	6459	160	78	48	- 17,5 + 17,5	M14 ÷ M 33 (*M48)

* Bussole con grani
Adapters with screws

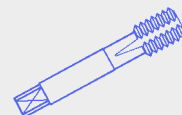


Bussole a maschiare
Tap Adapters
Pag. 172 - 175

HSK A + C

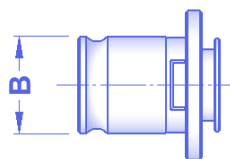
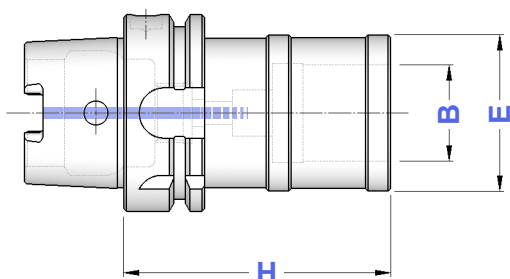
MASCHIATORI A CAMBIO RAPIDO SENZA COMPENSAZIONE

QUICK CHANGE TAP HOLDERS WITHOUT COMPENSATION



TIPO	Art.	H	E	B	
HSK 40 A - B. 1 FISSO	6470	55	33	19	M 3 ÷ M 12 (*M16)
HSK 40 A - B. 2 FISSO	6471	90	50	31	M 6 ÷ M 20 (*M30)
HSK 50 A - B. 1 FISSO	6472	60	33	19	M 3 ÷ M 12 (*M16)
HSK 50 A - B. 2 FISSO	6473	100	50	31	M 6 ÷ M 20 (*M30)
HSK 63 A - B. 1 FISSO	6474	60	33	19	M 3 ÷ M 12 (*M16)
HSK 63 A - B. 2 FISSO	6475	90	50	31	M 6 ÷ M 20 (*M30)
HSK 63 A - B. 3 FISSO	6476	130	72	48	M14 ÷ M 33 (*M48)
HSK 100 A - B. 1 FISSO	6477	70	33	19	M 3 ÷ M 12 (*M16)
HSK 100 A - B. 2 FISSO	6478	90	50	31	M 6 ÷ M 20 (*M30)
HSK 100 A - B. 3 FISSO	6479	115	72	48	M14 ÷ M 33 (*M48)

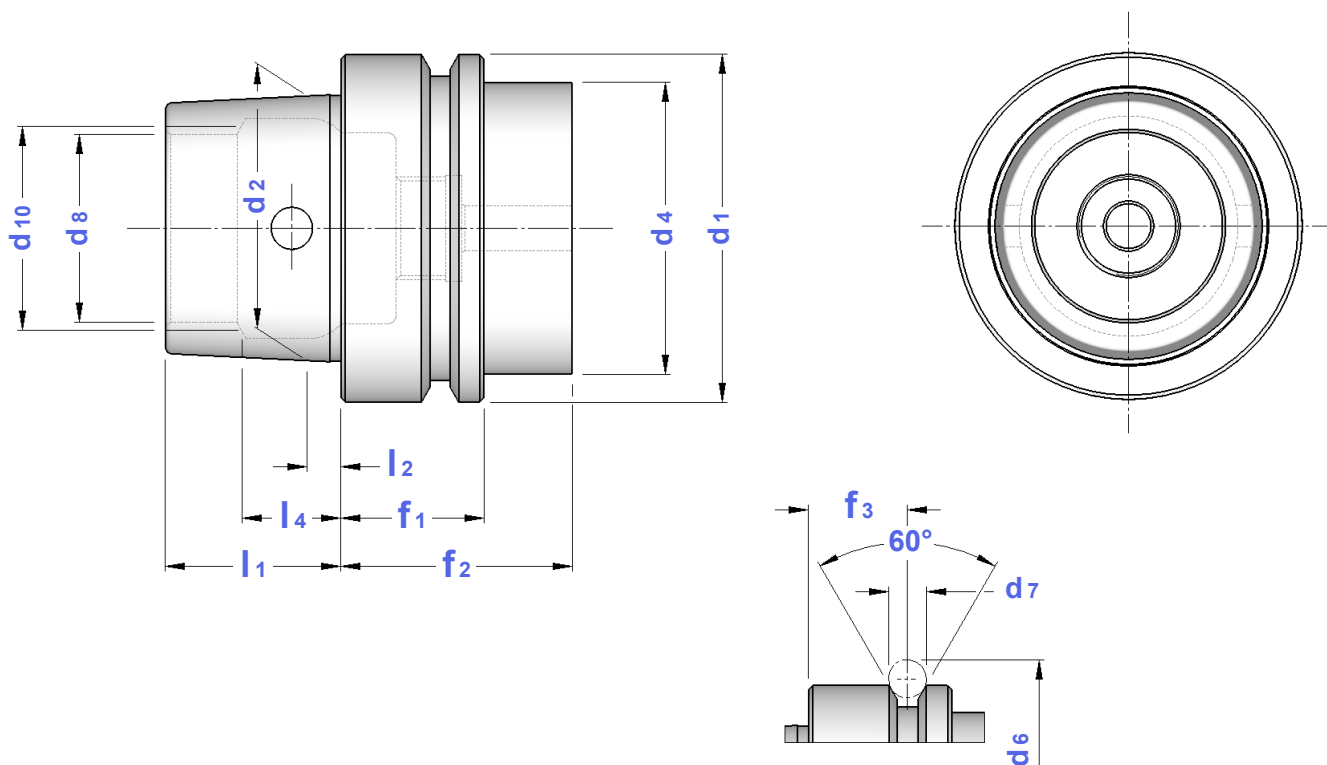
* Bussole con grani
Adapters with screws



Bussole a maschiare
Tap Adapters
Pag. 172 - 175

CARATTERISTICHE TECNICHE DIN 69893 - HSK E

DIN 69893 - HSK E STANDARD FEATURES



CONO	d1	d2	d4	d6	d7	d8	d10	f1	f2	f3	l1	l2	l4	OR
HSK 40 E	40	30	34	45,0	4	21	23	20	35	16	20	4,0	11,42	6976
HSK 50 E	50	38	42	59,3	7	26	29	26	42	18	25	5,0	14,13	6977
HSK 63 E	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13	6978

ADDUTTORI PER REFRIGERANTE

COOLANT TUBES

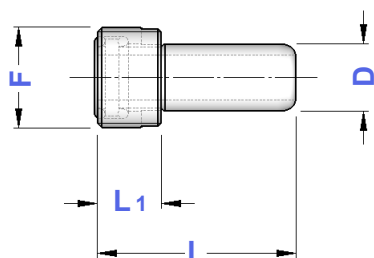


OR
O-RING



CHIAVE
WRENCH

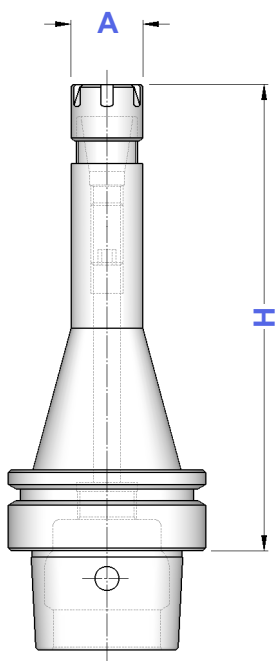
TIPO	Art.	F	D	L	L1	OR	CHIAVE
HSK 32 E	0413	M 10 x 1	6	26,0	5,5	5668	0470
HSK 40 E	0414	M 12 x 1	8	29,3	7,5	5672	0471
HSK 50 E	0415	M 16 x 1	10	33,0	9,5	5673	0472
HSK 63 E	0416	M 18 x 1	12	36,6	11,5	5674	0473






HSK E

PORTAPINZA ER - GHIERA MINI ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

Balanced G 2,5
20.000 rpm

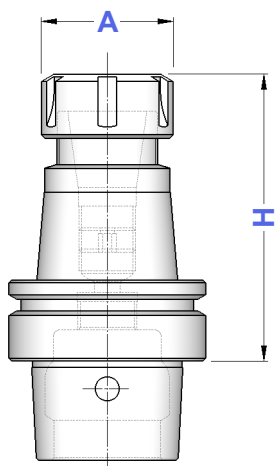




TIPO	Art.	A	CAPACITA'			
HSK 40 E - ER 16 GM/H 70 HSK 40 E - ER 16 GM/H 120	6500 6502	22	1 ÷ 10	1229	5719	0364
HSK 40 E - ER 25 GM/H 80 HSK 40 E - ER 25 GM/H 120	6508 6510	35	1 ÷ 16	1231	5721	0996
HSK 50 E - ER 16 GM/H 80 HSK 50 E - ER 16 GM/H 100 HSK 50 E - ER 16 GM/H 150	6512 6513 6514	22	1 ÷ 10	1229	5719	0364
HSK 50 E - ER 25 GM/H 150	6520	35	1 ÷ 16	1231	5721	0996
HSK 63 E - ER 16 GM/H 90 HSK 63 E - ER 16 GM/H 160	6521 6523	22	1 ÷ 10	1229	5719	0364

HSK E

PORTAPINZE ER - GHIERA STANDARD ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT

Balanced G 2,5
20.000 rpm



TIPO	Art.	A	CAPACITA'			
HSK 50 E - ER 16/H 100 HSK 50 E - ER 16/H 160	6533 6534	32	1 ÷ 10	4993	3698	0364
HSK 50 E - ER 20/H 100 HSK 50 E - ER 20/H 160	6535 6536	35	1 ÷ 13	4994	3699	0787
HSK 50 E - ER 25/H 100 HSK 50 E - ER 25/H 160	6537 6538	42	1 ÷ 16	4995	3669	0996
HSK 50 E - ER 32/H 100 HSK 50 E - ER 32/H 160	6539 6541	50	2 ÷ 20	4996	3670	0988
HSK 50 E - ER 40/H 100	6542	63	3 ÷ 30	4997	3671	0821
HSK 63 E - ER 16/H 75 HSK 63 E - ER 16/H 100 HSK 63 E - ER 16/H 160	6528 6530 6531	32	1 ÷ 10	4993	3698	0364
HSK 63 E - ER 25/H 75 HSK 63 E - ER 25/H 100 HSK 63 E - ER 25/H 160	6543 6544 6551	42	1 ÷ 16	4995	3669	0996
HSK 63 E - ER 32/H 75 HSK 63 E - ER 32/H 100 HSK 63 E - ER 32/H 160	6545 6546 6548	50	2 ÷ 20	4996	3670	0988
HSK 63 E - ER 40/H 80 HSK 63 E - ER 40/H 120 HSK 63 E - ER 40/H 160	6550 6552 6553	63	3 ÷ 30	4997	3671	0821



Balanced G 2,5
20.000 rpm

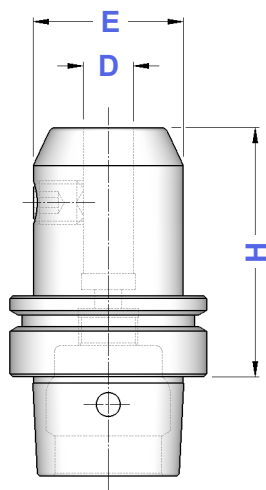


Figura 1

TIPO	Art.	D	H	E	Fig.	
HSK 50 E - WE 6 / H 65	6616	6	65	25	1	4970
HSK 50 E - WE 8 / H 65	6619	8	65	28	1	4971
HSK 50 E - WE 10 / H 65	6622	10	65	35	1	4972
HSK 50 E - WE 12 / H 80	6625	12	80	42	1	4973
HSK 50 E - WE 14 / H 80	6628	14	80	44	1	4973
HSK 50 E - WE 16 / H 80	6631	16	80	48	1	4974
HSK 50 E - WE 18 / H 80	6634	18	80	50	1	4974
HSK 50 E - WE 20 / H 80	6637	20	80	52	1	4975
HSK 50 E - WE 25 / H 105	6640	25	105	65	2	4976
HSK 63 E - WE 6 / H 65	6643	6	65	25	1	4970
HSK 63 E - WE 8 / H 65	6646	8	65	28	1	4971
HSK 63 E - WE 10 / H 70	6649	10	70	35	1	4972
HSK 63 E - WE 12 / H 80	6652	12	80	42	1	4973
HSK 63 E - WE 14 / H 80	6655	14	80	44	1	4973
HSK 63 E - WE 16 / H 80	6658	16	80	48	1	4974
HSK 63 E - WE 18 / H 80	6661	18	80	50	1	4974
HSK 63 E - WE 20 / H 80	6664	20	80	52	1	4975
HSK 63 E - WE 25 / H 105	6667	25	105	65	2	4976
HSK 63 E - WE 32 / H 110	6670	32	110	72	2	4977

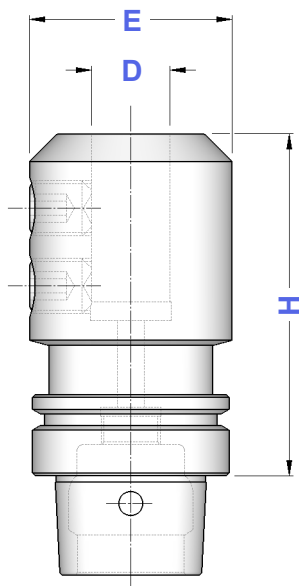


Figura 2

Dove trovare questi Articoli
Where to find those Items



Grani di bloccaggio - pag. 197
Locking screws - page 197

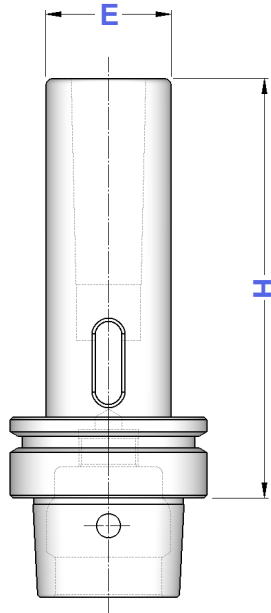
HSK E

RIDUZIONI A CONO MORSE PER PUNTE

MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

Balanced G 6,3
8.000 rpm

TIPO	Art.	CM	H	E
HSK 50 E - CM 1 PUNTE	6802	1	100	25
HSK 50 E - CM 2 PUNTE	6803	2	120	32
HSK 50 E - CM 3 PUNTE	6804	3	140	40
HSK 63 E - CM 1 PUNTE	6805	1	100	25
HSK 63 E - CM 2 PUNTE	6806	2	120	32
HSK 63 E - CM 3 PUNTE	6807	3	140	40
HSK 63 E - CM 4 PUNTE	6808	4	165	48



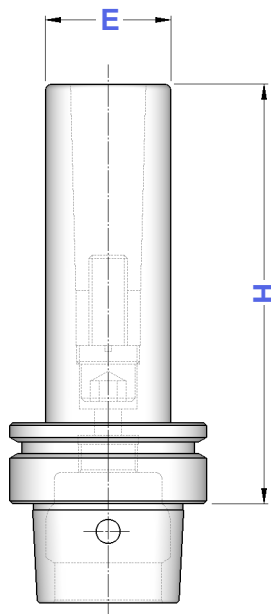
HSK E

RIDUZIONI A CONO MORSE PER FRESE

MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK

Balanced G 6,3
8.000 rpm

TIPO	Art.	CM	H	E	
HSK 50 E - CM 1 FRESE	6817	1	105	25	—
HSK 50 E - CM 2 FRESE	6818	2	120	32	4569
HSK 50 E - CM 3 FRESE	6819	3	140	40	4570
HSK 63 E - CM 1 FRESE	6820	1	100	25	—
HSK 63 E - CM 2 FRESE	6821	2	125	32	4569
HSK 63 E - CM 3 FRESE	6822	3	145	40	4570
HSK 63 E - CM 4 FRESE	6823	4	165	48	4571

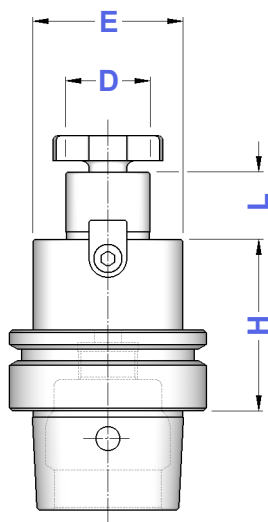




HSK E

PORTAFRESE FISSI DIN 6357 FACE MILL HOLDERS

Balanced G 6,3

15.000 rpm



TIPO	Art.	D	L	E		
HSK 40 E - D. 16 FISSO/ H 45	6850	16	17	38	4985	4562
HSK 40 E - D. 22 FISSO/ H 50	6851	22	19	48	4986	4563
HSK 40 E - D. 27 FISSO/ H 55	6852	27	21	58	4987	4564
HSK 50 E - D. 16 FISSO/ H 50	6853	16	17	38	4985	4562
HSK 50 E - D. 22 FISSO/ H 60	6855	22	19	48	4986	4563
HSK 50 E - D. 27 FISSO/ H 60	6857	27	21	58	4987	4564
HSK 50 E - D. 32 FISSO/ H 60	6859	32	24	66	4988	4565
HSK 50 E - D. 40 FISSO/ H 70	6860	40	27	80	4989	4566
HSK 63 E - D. 16 FISSO/ H 50	6861	16	17	38	4985	4562
HSK 63 E - D. 16 FISSO/ H 100	6862					
HSK 63 E - D. 22 FISSO/ H 50	6863	22	19	48	4986	4563
HSK 63 E - D. 22 FISSO/ H 100	6864					
HSK 63 E - D. 27 FISSO/ H 55	6865	27	21	58	4987	4564
HSK 63 E - D. 27 FISSO/ H 100	6866					
HSK 63 E - D. 32 FISSO/ H 60	6867	32	24	66	4988	4565
HSK 63 E - D. 32 FISSO/ H 100	6868					
HSK 63 E - D. 40 FISSO/ H 65	6869	40	27	80	4989	4566
HSK 63 E - D. 40 FISSO/ H 100	6870					

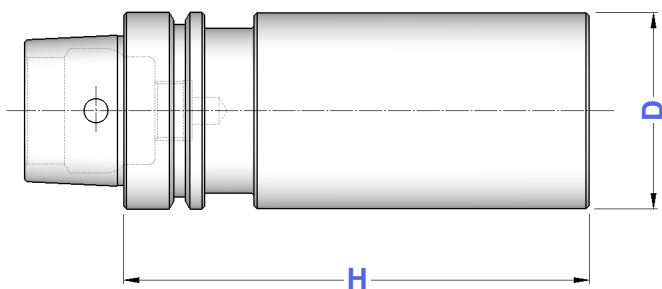
Dove trovare questi Articoli

Where to find those Items

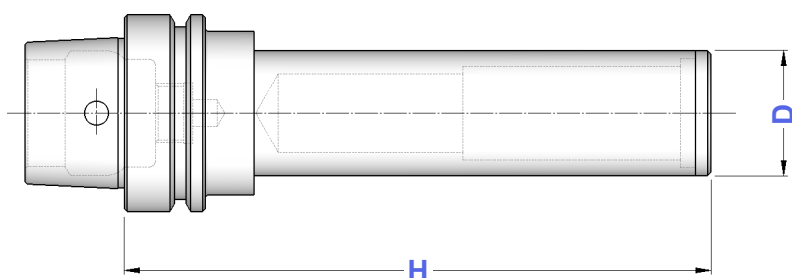
	Viti testa a croce - pag. 194 Cross head screws - page 194
	Chiavi per testa a croce - pag. 194 Wrenches for cross head - page 194
	Tasselli - pag. 195 Dowels - page 195
	Viti tassello - pag. 198 Dowel screws - page 198

**HSK
E****BARRE A STELO TENERO**
BLANK BARS**HSK**

TIPO	Art.	H	D
HSK 50 E - D. 63	6946	200	63
HSK 63 E - D. 63	6947	200	63

**HSK
E****BARRE DI CONTROLLO**
TEST ARBORS

TIPO	Art.	H	D
HSK 40 E - D. 32 SC	6940	300	32
HSK 50 E - D. 40 SC	6941	300	40
HSK 63 E - D. 40 SC	6942	390	40

**Tolleranze della barra**

- Rettilineità = 0,003
- Rotondità in rotazione = 0,003
- Cilindricità = 0,003

Bars tolerance

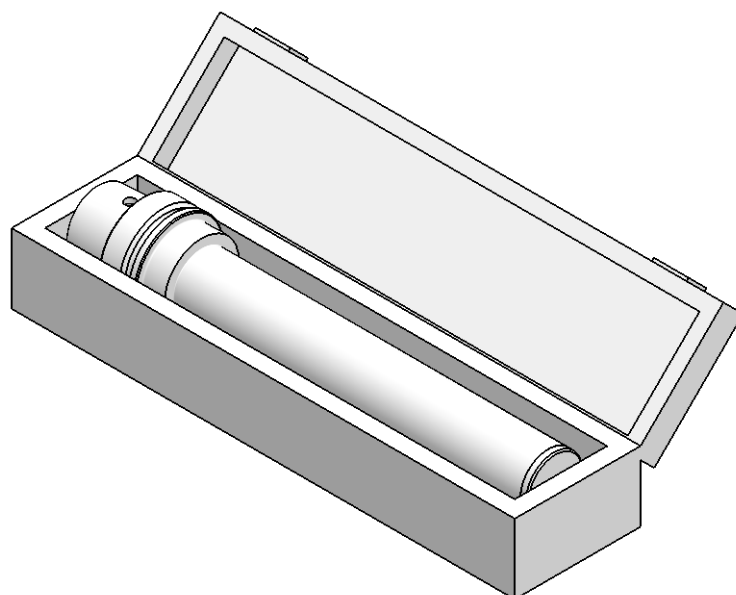
- Straightnes = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

Dati costruttivi

- Costruite in acciaio da cementazione certificato
- Cementate con profondità 0,4 - 0,5 mm
- Temprate, rinvenute, brunite
- Durezza HRC 58 ± 2, resistenza 800-1000 N/mm²
- Finitura di rettifica esterna
- Collaudate 100% con strumenti di misura certificati

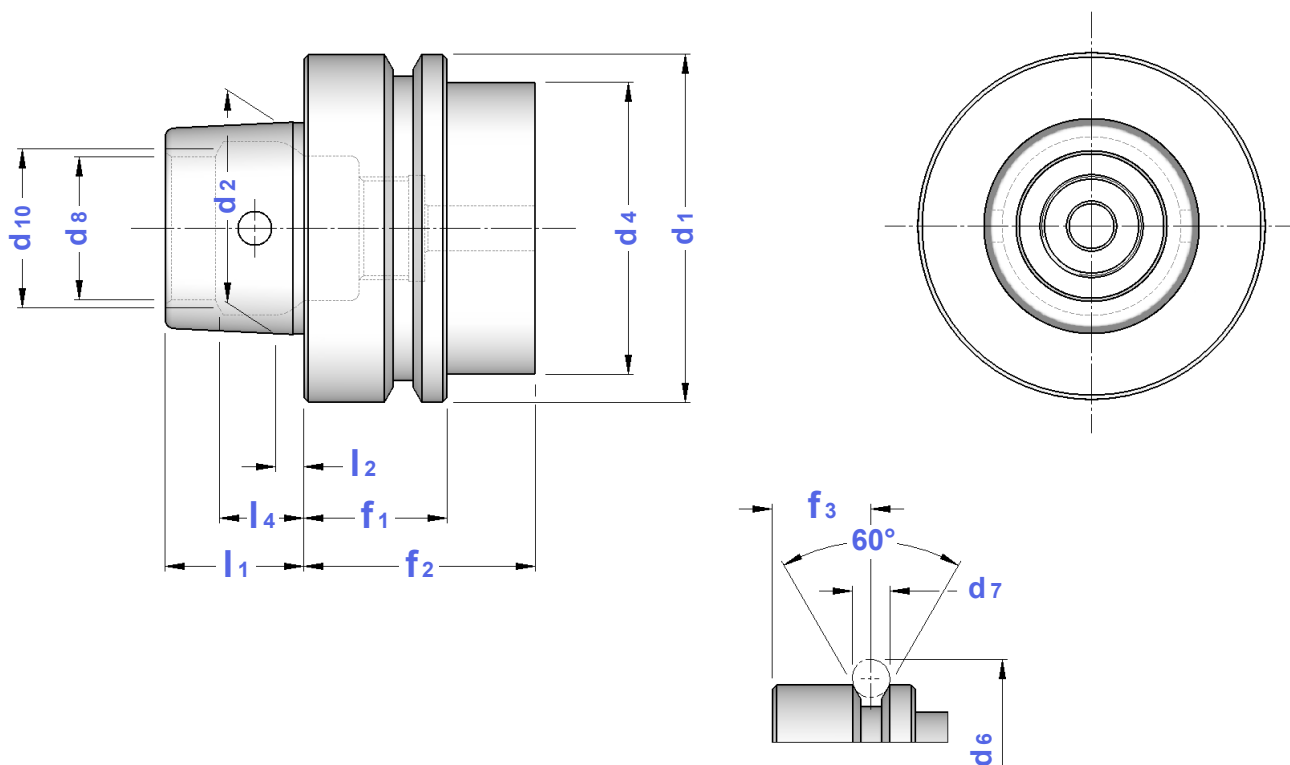
Constructive Features

- Manufactured with casehardening steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened, tempered, black oxidized
- Hardnes HRC 58 ± 2, strenght 800-1000 N/mm²
- External grinding finish
- Tested 100% with certified measuring instruments



CARATTERISTICHE TECNICHE DIN 69893 - HSK F

DIN 69893 - HSK F STANDARD FEATURES



CONO	d1	d2	d4	d6	d7	d8	d10	f1	f2	f3	l1	l2	l4	OR
HSK 50 F	50	30	42	59,3	7	21	23	26	42	18	20	4,0	11,42	6976
HSK 63 F	63	38	53	72,3	7	26	29	26	42	18	25	5,0	14,13	6977

ADDUTTORI PER REFRIGERANTE

COOLANT TUBES

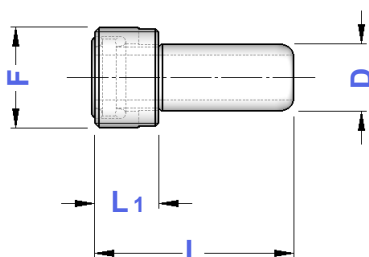


OR
O-RING



CHIAVE
WRENCH

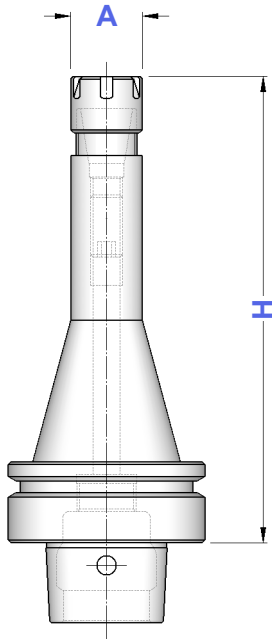
TIPO	Art.	F	D	L	L1	OR	CHIAVE
HSK 50 F	0414	M 12 x 1	8	29,3	7,5	5672	0471
HSK 63 F	0415	M 16 x 1	10	33,0	9,5	5673	0472






HSK F

PORTAPINZA ER - GHIERA MINI ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

Balanced G 2,5
20.000 rpm

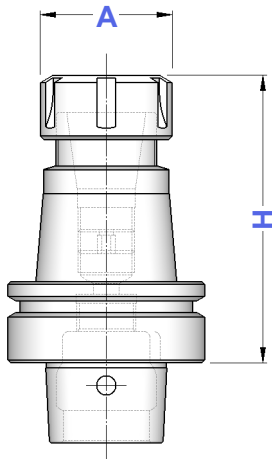




TIPO	Art.	A	CAPACITA'			
HSK 50 F - ER 16 GM/H 80	6756	22	1 ÷ 10	1229	5719	0364
HSK 50 F - ER 16 GM/H 100	6854					
HSK 50 F - ER 16 GM/H 160	6757					
HSK 63 F - ER 16 GM/H 100	6759	22	1 ÷ 10	1229	5719	0364
HSK 63 F - ER 16 GM/H 160	6760					
HSK 63 F - ER 20 GM/H 100	6856	28	1 ÷ 13	1230	5720	0787
HSK 63 F - ER 25 GM/H 100	6858	35	1 ÷ 16	1231	5721	0996
HSK 63 F - ER 25 GM/H 160	6761					

HSK F

PORTAPINZE ER - GHIERA STANDARD ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT

Balanced G 2,5
20.000 rpm



TIPO	Art.	A	CAPACITA'			
HSK 50 F - ER 16/H 100	6745	32	1 ÷ 10	4993	3698	0364
HSK 50 F - ER 20/H 100	6749	35	1 ÷ 13	4994	3699	0787
HSK 50 F - ER 25/H 80	6762	42	1 ÷ 16	4995	3669	0996
HSK 50 F - ER 25/H 100	6791					
HSK 50 F - ER 32/H 100	6763	50	2 ÷ 20	4996	3670	0988
HSK 50 F - ER 40/H 100	6764	63	3 ÷ 30	4997	3671	0821
HSK 63 F - ER 16/H 100	6792	32	1 ÷ 10	4993	3698	0364
HSK 63 F - ER 16/H 120	6793					
HSK 63 F - ER 16/H 160	6794					
HSK 63 F - ER 20/H 100	6795	35	1 ÷ 13	4994	3699	0787
HSK 63 F - ER 20/H 120	6796					
HSK 63 F - ER 20/H 160	6797					
HSK 63 F - ER 25/H 100	6765	42	1 ÷ 16	4995	3669	0996
HSK 63 F - ER 25/H 120	6798					
HSK 63 F - ER 25/H 160	6799					
HSK 63 F - ER 32/H 100	6766	50	2 ÷ 20	4996	3670	0988
HSK 63 F - ER 32/H 120	6809					
HSK 63 F - ER 32/H 160	6767					
HSK 63 F - ER 40/H 80	6768	63	3 ÷ 30	4997	3671	0821
HSK 63 F - ER 40/H 120	6769					
HSK 63 F - ER 40/H 160	6810					

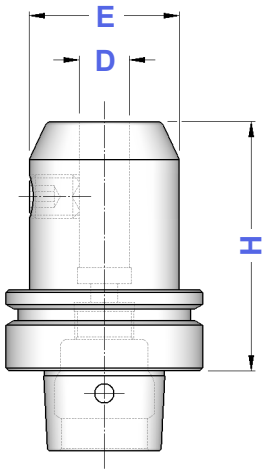
HSK F

PORTAFRESE WELDON

END MILL HOLDERS FOR DIN 1835-B SHANKS



Balanced G 2,5
20.000 rpm

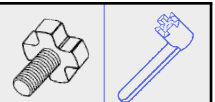


TIPO	Art.	D	H	E	
HSK 50 F - WE 6 / H 65	6077	6	65	25	4970
HSK 50 F - WE 8 / H 65	6078	8	65	28	4971
HSK 50 F - WE 10 / H 65	6079	10	65	35	4972
HSK 50 F - WE 12 / H 80	6080	12	80	42	4973
HSK 50 F - WE 16 / H 80	6081	16	80	48	4974
HSK 50 F - WE 20 / H 80	6082	20	80	52	4975
HSK 63 F - WE 6 / H 65	6083	6	65	25	4970
HSK 63 F - WE 6 / H 100	6824		100		
HSK 63 F - WE 6 / H 160	6825		160		
HSK 63 F - WE 8 / H 65	6084	8	65	28	4971
HSK 63 F - WE 8 / H 100	6826		100		
HSK 63 F - WE 8 / H 160	6827		160		
HSK 63 F - WE 10 / H 65	6085	10	65	35	4972
HSK 63 F - WE 10 / H 100	6828		100		
HSK 63 F - WE 10 / H 160	6829		160		
HSK 63 F - WE 12 / H 80	6086	12	80	42	4973
HSK 63 F - WE 12 / H 100	6830		100		
HSK 63 F - WE 12 / H 160	6831		160		
HSK 63 F - WE 14 / H 80	6832	14	80	44	4973
HSK 63 F - WE 16 / H 80	6087	16	80	48	4974
HSK 63 F - WE 16 / H 100	6833		100		
HSK 63 F - WE 16 / H 160	6834		160		
HSK 63 F - WE 18 / H 80	6835	18	80	50	4974
HSK 63 F - WE 20 / H 80	6088	20	80	52	4975
HSK 63 F - WE 20 / H 100	6836		100		
HSK 63 F - WE 20 / H 160	6837		160		
HSK 63 F - WE 25 / H 110	6089	25	110	65	4976
HSK 63 F - WE 25 / H 160	6838		160		
HSK 63 F - WE 32 / H 110	6839	32	110	72	4977
HSK 63 F - WE 32 / H 160	6840		160		

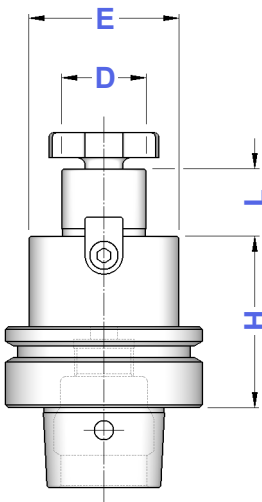
HSK F

PORTAFRESE FISSI

DIN 6357 FACE MILL HOLDERS



Balanced G 6,3
15.000 rpm



TIPO	Art.	D	H	L	E		
HSK 50 F - D. 16 FISSO/ 50	6267	16	50	17	38	4985	4562
HSK 50 F - D. 22 FISSO/ 50	6268	22	50	19	48	4986	4563
HSK 50 F - D. 27 FISSO/ 60	6269	27	60	21	58	4987	4564
HSK 50 F - D. 32 FISSO/ 60	6501	32	60	24	66	4988	4565
HSK 63 F - D. 16 FISSO/ 50	6270	16	50	17	38	4985	4562
HSK 63 F - D. 16 FISSO/ 100	6503		100				
HSK 63 F - D. 22 FISSO/ 50	6271	22	50	19	48	4986	4563
HSK 63 F - D. 22 FISSO/ 100	6504		100				
HSK 63 F - D. 27 FISSO/ 60	6272	27	60	21	58	4987	4564
HSK 63 F - D. 27 FISSO/ 100	6505		100				
HSK 63 F - D. 32 FISSO/ 60	6273	32	60	24	63	4988	4565
HSK 63 F - D. 32 FISSO/ 100	6506		100		66		
HSK 63 F - D. 40 FISSO/ 60	6274	40	60	27	80	4989	4566
HSK 63 F - D. 40 FISSO/ 100	6507		100				

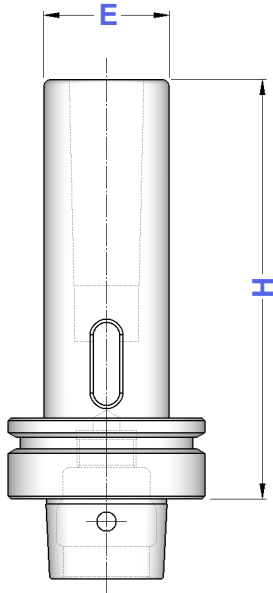
HSK F

RIDUZIONI A CONO MORSE PER PUNTE

MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

Balanced G 6,3
8.000 rpm

TIPO	Art.	CM	H	E
HSK 50 F - CM 1 PUNTE	6290	1	100	25
HSK 50 F - CM 2 PUNTE	6291	2	120	32
HSK 50 F - CM 3 PUNTE	6292	3	140	40
HSK 63 F - CM 1 PUNTE	6293	1	100	25
HSK 63 F - CM 2 PUNTE	6294	2	120	32
HSK 63 F - CM 3 PUNTE	6295	3	140	40
HSK 63 F - CM 4 PUNTE	6296	4	165	48



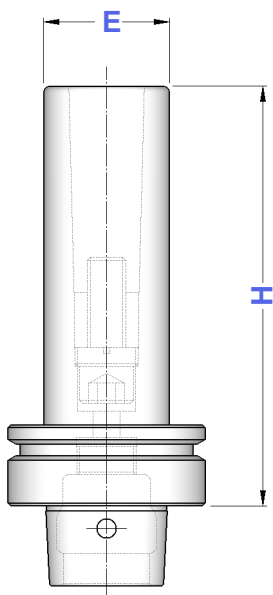
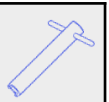
HSK F

RIDUZIONI A CONO MORSE PER FRESE

MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK

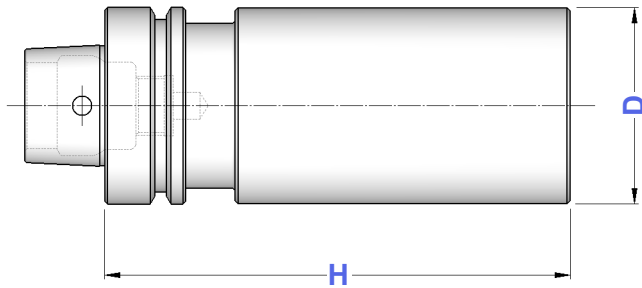
Balanced G 6,3
8.000 rpm

TIPO	Art.	CM	H	E	
HSK 50 F - CM 1 FRESE	6433	1	100	25	—
HSK 50 F - CM 2 FRESE	6434	2	120	32	4569
HSK 50 F - CM 3 FRESE	6435	3	140	40	4570
HSK 63 F - CM 1 FRESE	6436	1	100	25	—
HSK 63 F - CM 2 FRESE	6437	2	120	32	4569
HSK 63 F - CM 3 FRESE	6438	3	140	40	4570
HSK 63 F - CM 4 FRESE	6439	4	160	48	4571

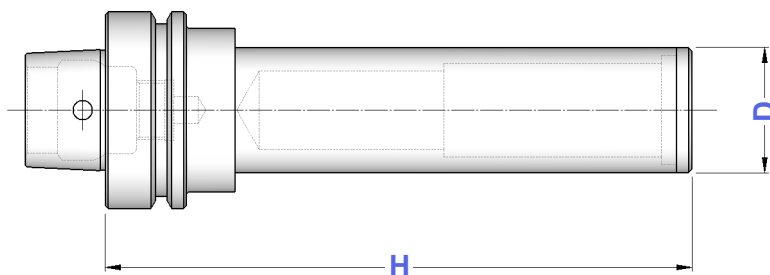


**HSK
F****BARRE A STELO TENERO**
BLANK BARS**HSK**

TIPO	Art.	H	D
HSK 50 F - D. 63	6786	200	63
HSK 63 F - D. 63	6787	200	63
HSK 63 F - D. 80	6908	250	80

**HSK
F****BARRE DI CONTROLLO**
TEST ARBORS

TIPO	Art.	H	D
HSK 50 F - D. 40 SC	6788	300	40
HSK 63 F - D. 40 SC	6789	380	40

**Tolleranze della barra**

- Rettilineità = 0,003
- Rotondità in rotazione = 0,003
- Cilindricità = 0,003

Bars tolerance

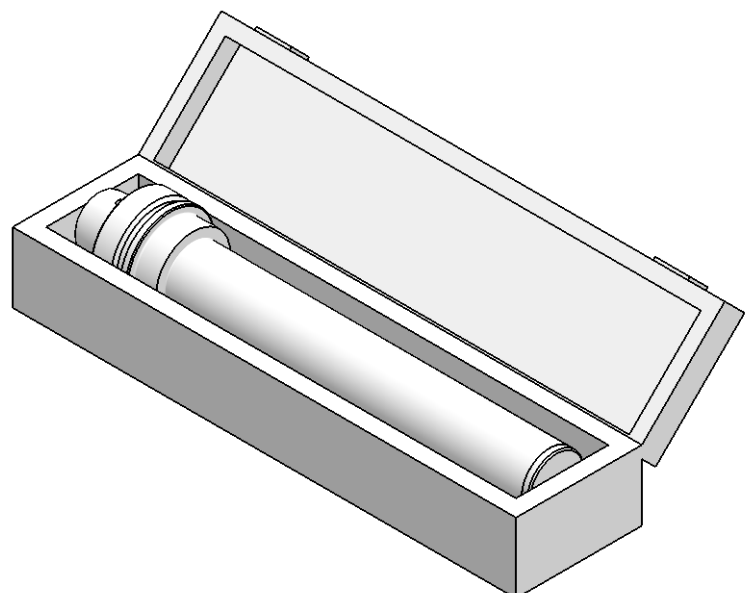
- Straightnes = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

Dati costruttivi

- Costruite in acciaio da cementazione certificato
- Cementate con profondità 0,4 - 0,5 mm
- Temprate, rinvenute, brunite
- Durezza HRC 58 ± 2, resistenza 800-1000 N/mm²
- Finitura di rettifica esterna
- Collaudate 100% con strumenti di misura certificati

Constructive Features

- Manufactured with casehardening steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened, tempered, black oxidized
- Hardnes HRC 58 ± 2, strenght 800-1000 N/mm²
- External grinding finish
- Tested 100% with certified measuring instruments

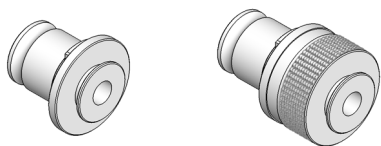


INDICE RICAMBI ED ACCESSORI MANDRINERIA

INDEX OF SPARES AND ACCESORIES FOR CHUCKS

BUSSOLE PORTA MASCHI

TAP ADAPTERS

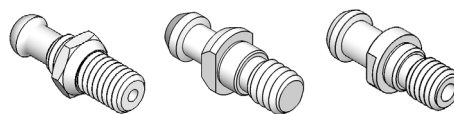


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CODOLI DI AGGANCIO

PULL STUD BOLTS

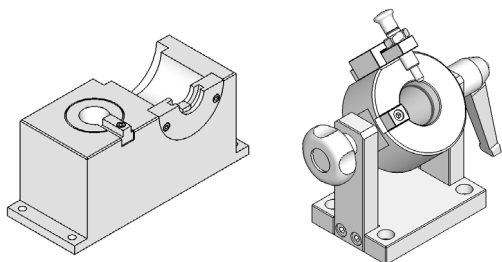


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SUPPORTI DI MONTAGGIO

TIGHTENING FIXTURES

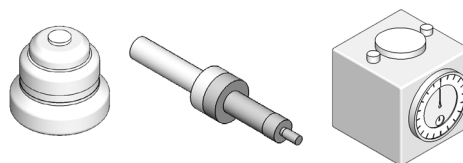


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AZZERATORI E CENTRATORI

RESETTERS AND CENTERINGS

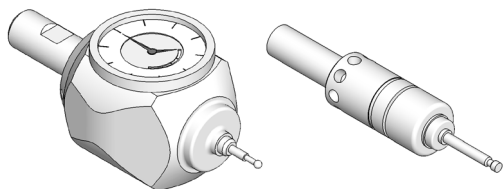


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STRUMENTI 3D

3D INSTRUMENTS

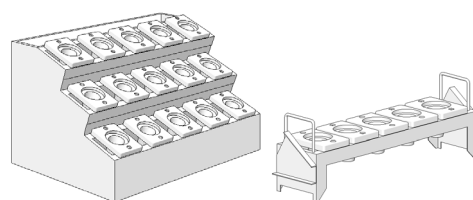


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MAGAZZINI PORTACONI

TOOLS STORES

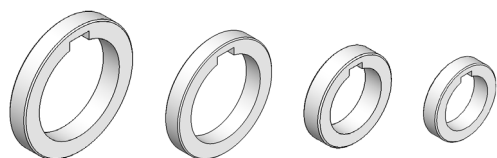


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DISTANZIALI

SPACERS

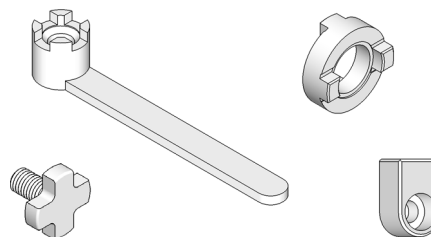


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RICAMBI PER PORTAFRESA

SPARES FOR MILL HOLDERS

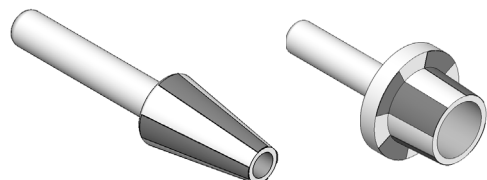


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TAMPONI PULITORI

TAPER CLEANER

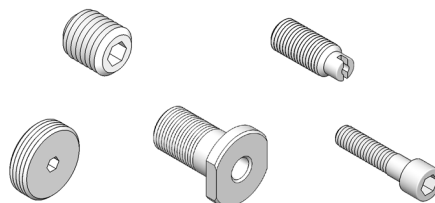


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GRANI E VITI

SCREWS



Programma completo da pagina

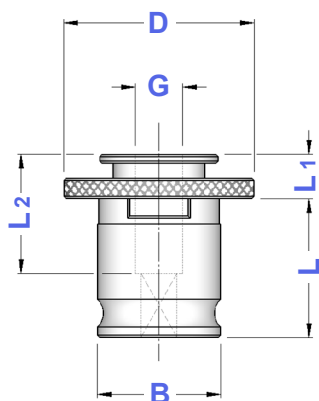
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BUSSOLE A CAMBIO RAPIDO SENZA FRIZIONE

QUICK CHANGE TAP ADAPTERS WITHOUT CLUTCH

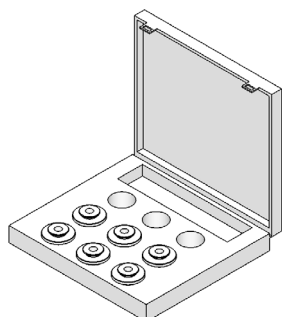
B.

TIPO	Art.	FILETTO	G	B	D	L	L1	L2
B.0	4077	M 2 ÷ M 10	∅ 2,5 ÷ ∅ 8	13	22	19,5	7	15
B.1	3390	M 2 ÷ M 12	∅ 2,5 ÷ ∅ 11	19	30	21,5	7	17
B.2	3391	M 5 ÷ M 20	∅ 6,0 ÷ ∅ 18	31	46	35,0	11	30
B.3	3392	M 14 ÷ M 36	∅ 11,0 ÷ ∅ 28	48	68	55,5	14	44



CASSETTE DI CORREDO CON BUSSOLE SENZA FRIZIONE

EQUIPMENT BOXES FOR TAP HOLDERS WITH TAP ADAPTERS WITHOUT CLUTCH



TIPO	Art.		
Corredo B.1	7532	3695	6 Bussole Art.3390: ∅ 3,5 (M3) - ∅ 4,5 (M 4) - ∅ 6 (M 6) ∅ 8 (M8) - ∅ 9 (M12) - ∅ 10 (M10)
Corredo B.2	7533	3695	7 Bussole Art.3391: ∅ 8 (M 8) - ∅ 9 (M12) - ∅ 10 (M10) ∅ 11 (M14) - ∅ 12 (M16) - ∅ 14 (M18) ∅ 16 (M20)

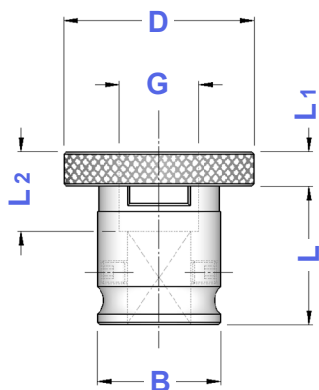
A richiesta è possibile completare il corredo aggiungendo il maschiatore di Vostro interesse.
On request is possible to complete the equipment adding the Tap Holder you are interested on.

BUSSOLE SENZA FRIZIONE CON GRANI

TAP ADAPTERS WITH SCREWS - WITHOUT CLUTCH

B.GR

TIPO	Art.	FILETTO	G	B	D	L	L1	L2
B.1 - GR	3390 GR	M 16	∅ 12	19	30	21,5	6,0	14,0
B.2 - GR	3391 GR	M 27 ÷ M 30	∅ 20 ÷ ∅ 22	31	46	35,0	8,5	22,5
B.3 - GR	3392 GR	M 39 ÷ M 48	∅ 32 ÷ ∅ 36	48	68	55,5	9,0	37,0

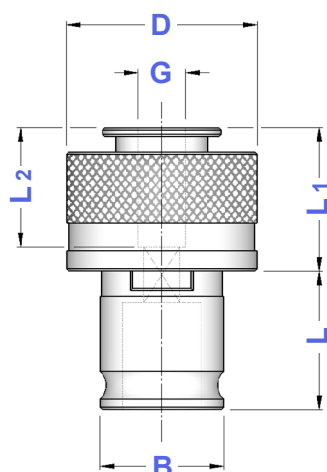


Nelle bussole tipo GR il fissaggio del maschio non avviene mediante sfere ma grazie a 2 grani situati sul diametro di guida.
On GR tap adapters, the tap is locked by 2 screws on guide diameter and not by balls.

BUSSOLE A CAMBIO RAPIDO CON FRIZIONE

QUICK CHANGE TAP ADAPTERS WITH CLUTCH

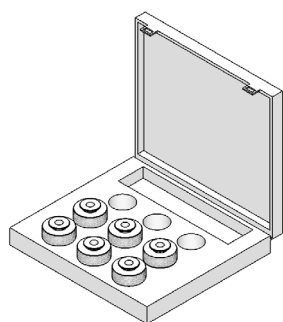
BF.



TIPO	Art.	FILETTO	G	B	D	L	L1	L2
BF.0	4078	M 2 ÷ M 10	∅2,5 ÷ ∅ 8	13	23	19,5	21	15
BF.1	3387	M 2 ÷ M 12	∅2,5 ÷ ∅ 11	19	32	21,5	25	17
BF.2	3388	M 5 ÷ M 20	∅6,0 ÷ ∅ 18	31	50	35,0	34	30
BF.3	3389	M14 ÷ M 36	∅11,0 ÷ ∅ 28	48	72	55,5	45	44

CASSETTE DI CORREDO CON BUSSOLE CON FRIZIONE

EQUIPMENT BOXES FOR TAP HOLDERS WITH TAP ADAPTERS WITH CLUTCH



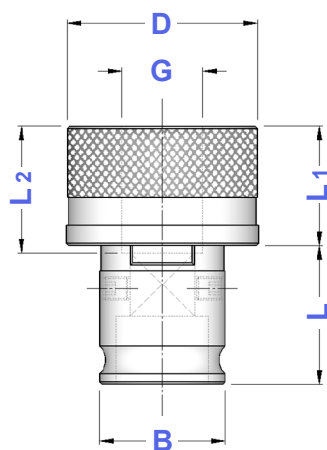
TIPO	Art.		
Corredo BF.1	7534	3695	6 Bussole Art.3387: ∅ 3,5 (M 3) - ∅ 4,5 (M 4) - ∅ 6 (M 6) ∅ 8 (M 8) - ∅ 9 (M12) - ∅ 10 (M10)
Corredo BF.2	7535	3695	7 Bussole Art.3388: ∅ 8 (M 8) - ∅ 9 (M12) - ∅ 10 (M10) ∅ 11 (M14) - ∅ 12 (M16) - ∅ 14 (M18) ∅ 16 (M20)

A richiesta è possibile completare il corredo aggiungendo il maschiatore di Vostro interesse.
On request is possible to complete the equipment adding the Tap Holder you are interested on.

BUSSOLE CON FRIZIONE CON GRANI

TAP ADAPTERS WITH SCREWS - WITH CLUTCH

BF.GR



TIPO	Art.	FILETTO	G	B	D	L	L1	L2
BF.1 - GR	3387 GR	M 16	∅ 12	19	32	21,5	23	25,5
BF.2 - GR	3388 GR	M 27 ÷ M 30	∅ 20 ÷ ∅ 22	31	50	35,0	29	31,0
BF.3 - GR	3389 GR	M 39 ÷ M 48	∅ 32 ÷ ∅ 36	48	72	55,5	39	39,0

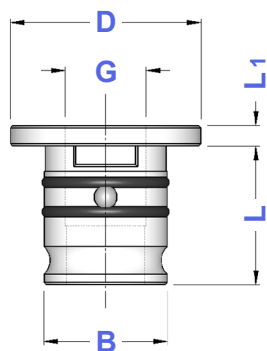
Nelle bussole tipo GR il fissaggio del maschio non avviene mediante sfere ma grazie a 2 grani situati sul diametro di guida.
On GR tap adapters, the tap is locked by 2 screws on guide diameter and not by balls.

DIMENSIONAMENTO GAMBI PER MASCHI METRICI
TAP SHANKS METRIC SIZE DIMENTIONS

GAMBO ∅ x □	NORMALE DIN 352	RINFORZATO DIN 371	NORMALE DIN 376	NORMALE ISO	RINFORZATO ISO	TIPO BUSSOLA
2,50 x 2,10	M 1,0	M 1,0	M 3,5			0 - 1
	M 1,4	M 1,4				0 - 1
	M 1,6	M 1,6				0 - 1
	M 1,8	M 1,8				0 - 1
2,80 x 2,10	M 2,0	M 2,0	M 4,0			0 - 1
	M 2,2	M 2,2				0 - 1
	M 2,5	M 2,5				0 - 1
3,15 x 2,50				M 4,0	M 3,0	0 - 1
3,50 x 2,70	M 3,0	M 3,0	M 5,0			0 - 1
3,55 x 2,80				M 4,5	M 3,5	0 - 1
4,00 x 3,15	M 3,5	M 3,5		M 5,0	M 4,0	0 - 1
4,50 x 3,40	M 4,0	M 4,0	M 6,0			0 - 1
5,00 x 4,00					M 5,0	0 - 1
6,00 x 4,90	M 5,0	M 5,0				0 - 1 - 2
	M 6,0	M 6,0				0 - 1 - 2
	M 8,0		M 8,0			0 - 1 - 2
6,30 x 5,00				M 8,0	M 6,0	0 - 1 - 2
7,00 x 5,50	M 10,0		M 10,0			0 - 1 - 2
8,00 x 6,20		M 8,0		M 10,0	M 8,0	0 - 1 - 2
9,00 x 7,00	M 12,0		M 12,0	M 12,0		1 - 2
10,00 x 8,00		M 10,0			M 10,0	1 - 2
11,00 x 9,00	M 14,0		M 14,0			1 - 2 - 3
11,20 x 9,00				M 14,0		1 - 2 - 3
12,00 x 9,00	M 16,0		M 16,0			1 - 2 - 3
12,50 x 10,00				M 16,0		2 - 3
14,00 x 11,00	M 18,0		M 18,0			2 - 3
14,00 x 11,20				M 18,0		2 - 3
				M 20,0		2 - 3
16,00 x 12,00	M 20,0		M 20,0			2 - 3
16,00 x 12,50				M 22,0		2 - 3
18,00 x 14,00				M 24,0		2 - 3
18,00 x 14,50	M 22,0		M 22,0			2 - 3
	M 24,0		M 24,0			2 - 3
20,00 x 16,00	M 27,0		M 27,0	M 27,0		2 - 3
				M 30,0		2 - 3
22,00 x 18,00	M 30,0		M 30,0			2 - 3
25,00 x 20,00	M 33,0		M 33,0	M 36,0		3
28,00 x 22,00	M 36,0		M 36,0			3
32,00 x 24,00	M 39,0		M 39,0			3
	M 42,0		M 42,0			3
36,00 x 29,00	M 45,0		M 45,0			3
	M 48,0		M 48,0			3

RIDUZIONI

RIDUZIONI DA BUSSOLA A BUSSOLA REDUCTIONS FROM ADAPTER TO ADAPTER



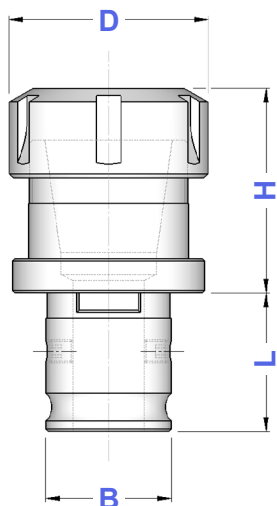
TIPO	Art.	B	G	D	L	L1
B.1/B.0	0202	19	13	30	21,5	4
B.2/B.1	0246	31	19	48	35,0	5
B.3/B.2	0399	48	31	70	55,5	6

PORTAPINZE

RIDUZIONI DA BUSSOLA A PINZA ER REDUCTIONS FROM ADAPTER TO ER COLLET



TIPO	Art.	B	D	H	L	CAPACITA'			
B.1 - ER 16	3385	19	32	29	21,5	Ø 1 ÷ 10	4993	3698	0364
B.2 - ER 25	3386	31	42	38	35,0	Ø 1 ÷ 16	4995	3669	0996
B.2 - ER 32	3160	31	50	62	35,0	Ø 2 ÷ 20	4996	3670	0988

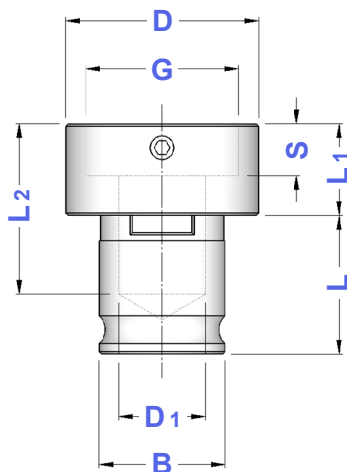


Il bloccaggio del quadro del maschio avviene mediante i grani posti sul diametro di guida.

Tap square is locked by the screws on guide diameter.

PORTA FILIERE

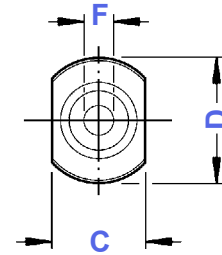
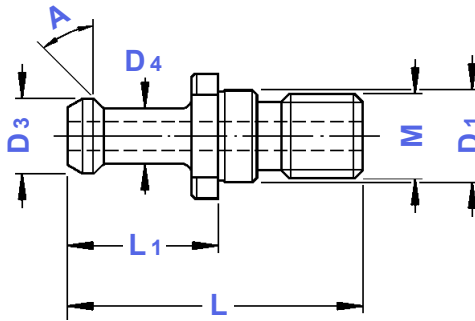
BUSSOLE PORTA FILIERE THREADING DIE ADAPTERS



TIPO	Art.	B	L	L1	G	S	D	D1	L2
B.1 - F / 16 x 5	0251	19	21,5	9	16	4,8	25	12,5	23
B.1 - F / 20 x 5				9	20	4,8	30	12,5	23
B.1 - F / 20 x 7				11	20	6,5	30	12,5	25
B.1 - F / 25 x 9				14	25	8,5	35	12,5	28
B.1 - F / 30 x 11				16	30	10,0	40	12,5	30
B.1 - F / 38 x 10				15	38	9,0	48	14,2	29
B.1 - F / 38 x 14				19	38	13,0	48	14,2	33
B.2 - F / 20 x 5	0252	31	35,0	22	20	4,8	30	15,0	57
B.2 - F / 20 x 7				22	20	6,5	30	15,0	57
B.2 - F / 25 x 9				22	25	8,5	35	15,0	57
B.2 - F / 30 x 11				22	30	10,0	40	22,0	57
B.2 - F / 38 x 10				22	38	9,0	48	22,0	57
B.2 - F / 38 x 14				25	38	13,0	48	22,0	60
B.2 - F / 45 x 14				29	45	13,0	57	22,0	64
B.2 - F / 45 x 18				29	45	17,0	57	22,0	64

Tabelle da completare per la richiesta di codoli speciali

Complete the following tables in order to ask for special pull stud bolts



Marca Macchina

Modello Macchina

M

L

L1

D

D1

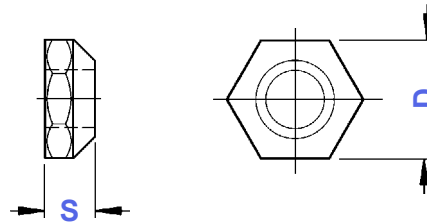
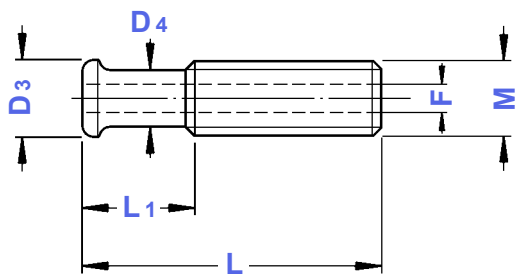
D3

D4

A

C

F



Marca Macchina

Modello Macchina

M

L

L1

D

D3

D4

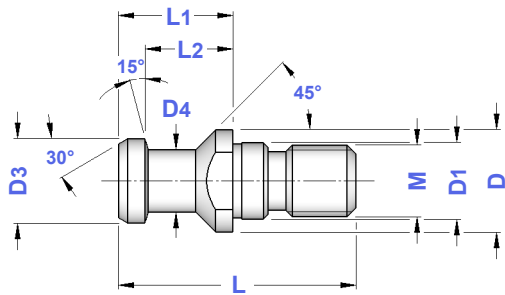
F

S

DIN 69872

CODOLI DIN 69872 - NON FORATI DIN 69872 PULL STUD BOLTS WITHOUT HOLE

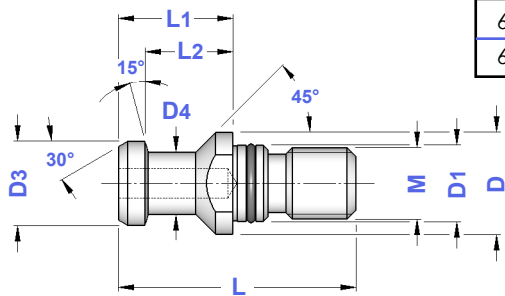
NON FORATI



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2
69872 - ISO 30	3489	M12	17	13	13	9	44	24	19
69872 - ISO 40	4573	M16	23	17	19	14	54	26	20
69872 - ISO 45	4574	M20	30	21	23	17	65	30	23
69872 - ISO 50	4575	M24	36	25	28	21	74	34	25

DIN 69872

CODOLI DIN 69872 - NON FORATI CON OR DIN 69872 PULL STUD BOLTS WITH WATERTIGHT O RING



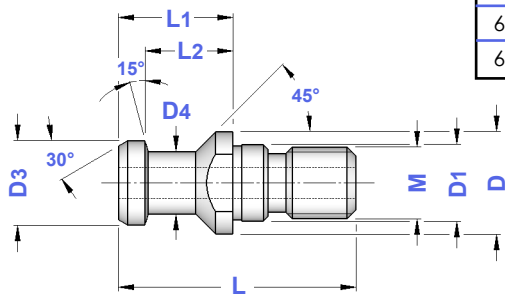
TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	
69872 ISO 40 - OR	3268	M16	23	17	19	14	54	26	20	0078
69872 ISO 50 - OR	3270	M24	36	25	28	21	74	34	25	0080



DIN 69872

CODOLI DIN 69872 - FORATI DIN 69872 PULL STUD BOLTS WITH HOLE

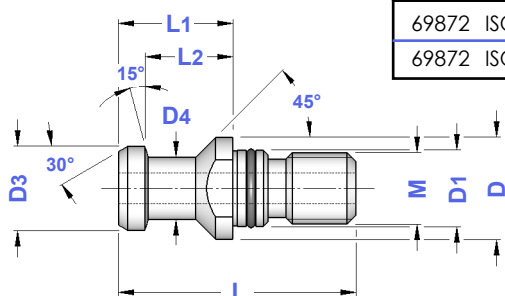
FORATI



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
69872 ISO 30 - FORATO	3423	M12	17	13	13	9	44	24	19	3,0
69872 ISO 40 - FORATO	3476	M16	23	17	19	14	54	26	20	7,0
69872 ISO 45 - FORATO	3477	M20	30	21	23	17	65	30	23	9,5
69872 ISO 50 - FORATO	3478	M24	36	25	28	21	74	34	25	11,5

DIN 69872

CODOLI DIN 69872 - FORATI CON OR DIN 69872 PULL STUD BOLTS WITH HOLE AND O RING



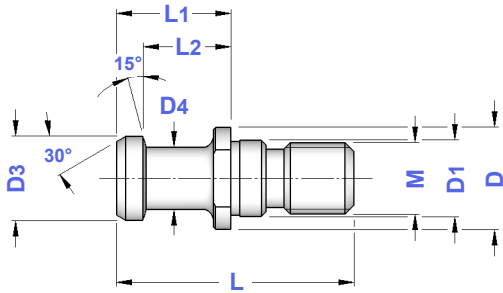
TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro	
69872 ISO 40 - F.+OR	3040	M16	23	17	19	14	54	26	20	7,0	0078
69872 ISO 50 - F.+OR	3042	M24	36	25	28	21	74	34	25	11,5	0080



ISO 7388/2-A

CODOLI ISO 7388/2A - NON FORATI ISO 7388/2A PULL STUD BOLTS WITHOUT HOLE

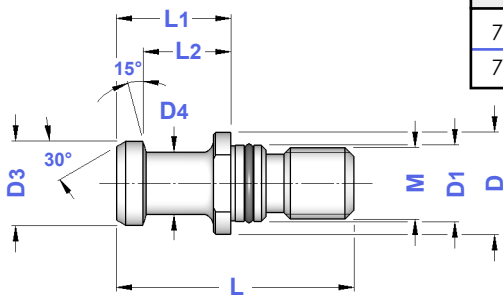
NON FORATI



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2
7388/2A - ISO 30	3479	M12	16	13	12	8	44	24	19
7388/2A - ISO 40	4576	M16	23	17	19	14	54	26	20
7388/2A - ISO 45	4577	M20	30	21	23	17	65	30	23
7388/2A - ISO 50	4578	M24	36	25	28	21	74	34	25

ISO 7388/2-A

CODOLI ISO 7388/2A - NON FORATI CON OR ISO 7388/2A PULL STUD BOLTS WITH WATERTIGHT O RING



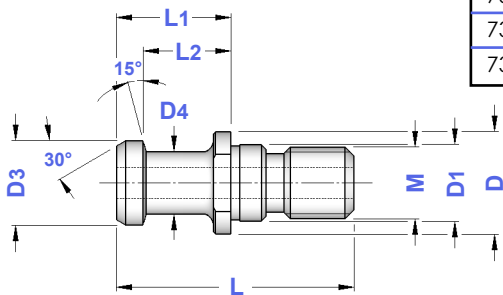
TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	
7388/2A ISO40 - OR	4582	M16	23	17	19	14	54	26	20	0078
7388/2A ISO50 - OR	4584	M24	36	25	28	21	74	34	25	0080



ISO 7388/2-A

CODOLI ISO 7388/2A - FORATI ISO 7388/2A PULL STUD BOLTS WITH HOLE

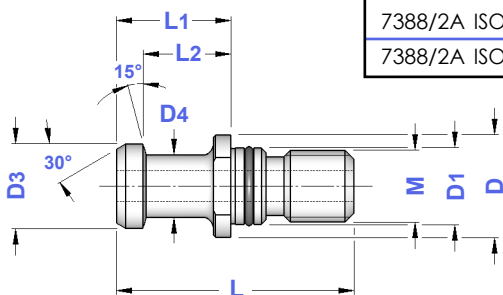
FORATI



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
7388/2A ISO30 - FORATO	3425	M12	16	13	12	8	44	24	19	3,0
7388/2A ISO40 - FORATO	3480	M16	23	17	19	14	54	26	20	7,0
7388/2A ISO45 - FORATO	3481	M20	30	21	23	17	65	30	23	9,5
7388/2A ISO50 - FORATO	3482	M24	36	25	28	21	74	34	25	11,5

ISO 7388/2-A

CODOLI ISO 7388/2A - FORATI CON OR ISO 7388/2A PULL STUD BOLTS WITH HOLE AND O RING



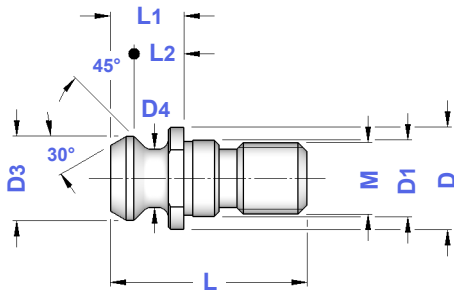
TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro	
7388/2A ISO40 - FORO+OR	3047	M16	23	17	19	14	54	26	20	7,0	0078
7388/2A ISO50 - FORO+OR	3049	M24	36	25	28	21	74	34	25	11,5	0080



ISO 7388/2-B

CODOLI ISO 7388/2B - NON FORATI ISO 7388/2B PULL STUD BOLTS WITHOUT HOLE

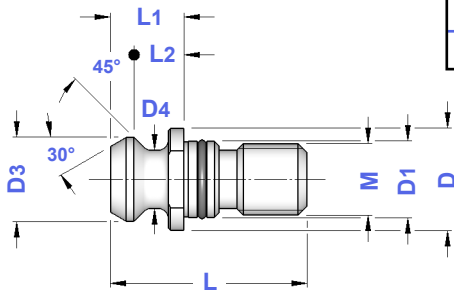
NON FORATI



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2
7388/2B ISO 30	3483	M 12	17,0	12,5	13,3	9,3	34,0	11,8	8,1
7388/2B ISO 40	4579	M 16	22,5	17,0	18,9	12,9	44,5	16,4	11,1
7388/2B ISO 45	4580	M 20	30,0	21,0	24,0	16,3	56,0	20,9	14,8
7388/2B ISO 50	4581	M 24	37,0	25,0	29,1	19,6	65,5	25,5	17,9

ISO 7388/2-B

CODOLI ISO 7388/2B - NON FORATI CON OR ISO 7388/2B PULL STUD BOLTS WITH WATERTIGHT O RING



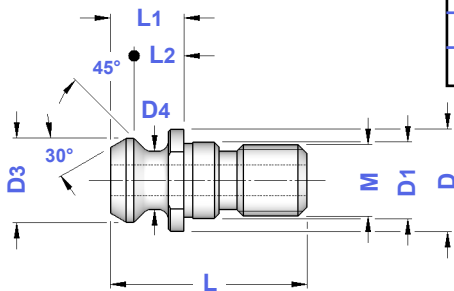
TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	
7388/2B ISO40 - OR	4585	M16	22,5	17,0	18,9	12,9	44,5	16,4	11,1	0078
7388/2B ISO50 - OR	4587	M24	37,0	25,0	29,1	19,6	65,5	25,5	17,9	0080



ISO 7388/2-B

CODOLI ISO 7388/2B - FORATI ISO 7388/2B PULL STUD BOLTS WITH HOLE

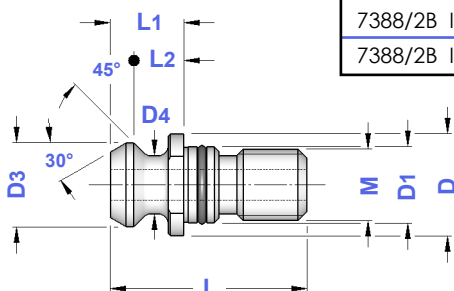
FORATI



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
7388/2B ISO40 - FORATO	3484	M16	22,5	17,0	18,9	12,9	44,5	16,4	11,1	7,3
7388/2B ISO45 - FORATO	3485	M20	30,0	21,0	24,0	16,3	56,0	20,9	14,8	9,2
7388/2B ISO50 - FORATO	3486	M24	37,0	25,0	29,1	19,6	65,5	25,5	17,9	11,5

ISO 7388/2-B

CODOLI ISO 7388/2B - FORATI CON OR ISO 7388/2B PULL STUD BOLTS WITH HOLE AND O RING

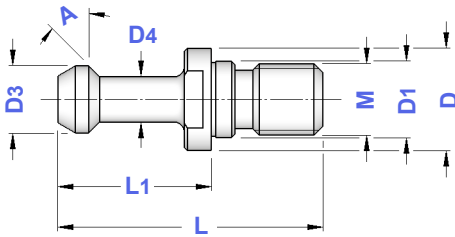


TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro	
7388/2B ISO40 - FORO+OR	3050	M16	22,5	17,0	18,9	12,9	44,5	16,4	11,1	7,3	0078
7388/2B ISO50 - FORO+OR	3052	M24	37,0	25,0	29,1	19,6	65,5	25,5	17,9	11,5	0080

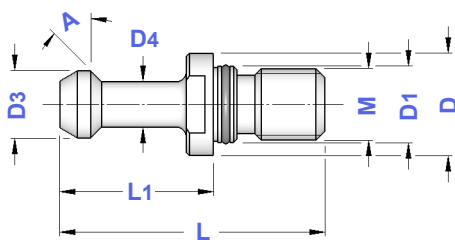


**BT
MAS****CODOLI BT - NON FORATI**
BT PULL STUD BOLTS WITHOUT HOLE**NON
FORATI**

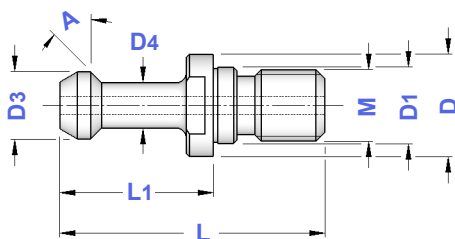
TIPO	Art.	A	M	L	L1	D	D1	D3	D4
BT 30 - 30°	3287	30°	M12	43	23	16,5	12,5	11,0	7,0
BT 30 - 45°	3288	45°	M12	43	23	16,5	12,5	11,0	7,0
BT 35 - 30°	3289	30°	M12	48	28	20,0	13,0	13,0	8,5
BT 35 - 30°	0081	30°	M12	53	28	20,7	13,0	13,7	8,9
BT 35 - 45°	3290	45°	M12	48	28	20,0	13,0	13,0	8,5
BT 40 - 30°	3293	30°	M16	60	35	23,0	17,0	15,0	10,0
BT 40 - 45°	3292	45°	M16	60	35	23,0	17,0	15,0	10,0
BT 40 - 90°	3294	90°	M16	60	35	23,0	17,0	15,0	10,0
BT 45 - 30°	3298	30°	M20	70	40	31,0	21,0	19,0	14,0
BT 45 - 45°	3297	45°	M20	70	40	31,0	21,0	19,0	14,0
BT 50 - 30°	3301	30°	M24	85	45	38,0	25,0	23,0	17,0
BT 50 - 45°	3300	45°	M24	85	45	38,0	25,0	23,0	17,0
BT 50 - 90°	3302	90°	M24	85	45	38,0	25,0	23,0	17,0

**BT
MAS****CODOLI BT - NON FORATI CON OR**
BT PULL STUD BOLTS WITHOUT HOLE - WITH O RING

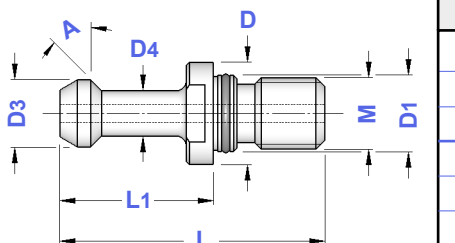
TIPO	Art.	A	M	L	L1	D	D1	D3	D4	
BT 40 - 30° OR	3315	30°	M16	60	35	23	17	15	10	0558
BT 40 - 45° OR	3316	45°	M16	60	35	23	17	15	10	0558
BT 40 - 90° OR	3318	90°	M16	60	35	23	17	15	10	0558
BT 50 - 30° OR	3322	30°	M24	85	45	38	25	23	17	0080
BT 50 - 45° OR	3325	45°	M24	85	45	38	25	23	17	0080
BT 50 - 90° OR	3326	90°	M24	85	45	38	25	23	17	0080


**BT
MAS****CODOLI BT - FORATI**
BT PULL STUD BOLTS WITH HOLE**FORATI**

TIPO	Art.	A	M	L	L1	D	D1	D3	D4	Foro
BT 30 - 30° FORATO	3224	30°	M12	43	23	16,5	12,5	11	7	2,5
BT 30 - 45° FORATO	3225	45°	M12	43	23	16,5	12,5	11	7	2,5
BT 40 - 30° FORATO	3327	30°	M16	60	35	23	17	15	10	4
BT 40 - 45° FORATO	3328	45°	M16	60	35	23	17	15	10	4
BT 40 - 90° FORATO	3330	90°	M16	60	35	23	17	15	10	4
BT 50 - 30° FORATO	3331	30°	M24	85	45	38	25	23	17	6
BT 50 - 45° FORATO	3332	45°	M24	85	45	38	25	23	17	6
BT 50 - 90° FORATO	3333	90°	M24	85	45	38	25	23	17	6

**BT
MAS****CODOLI BT - FORATI CON OR**
BT PULL STUD BOLTS WITH HOLE AND O RING

TIPO	Art.	A	M	L	L1	D	D1	D3	D4	Foro	
BT 40 - 30° FORO+OR	3429	30°	M16	60	35	23	17	15	10	4	0558
BT 40 - 45° FORO+OR	3430	45°	M16	60	35	23	17	15	10	4	0558
BT 40 - 90° FORO+OR	3431	90°	M16	60	35	23	17	15	10	4	0558
BT 50 - 30° FORO+OR	3500	30°	M24	85	45	38	25	23	17	6	0080
BT 50 - 45° FORO+OR	3501	45°	M24	85	45	38	25	23	17	6	0080
BT 50 - 90° FORO+OR	3502	90°	M24	85	45	38	25	23	17	6	0080

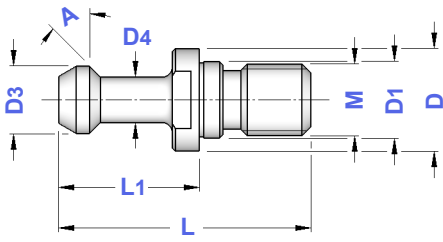



BT  **DIN 69871**

CODOLI - NON FORATI
BT PULL STUD BOLTS WITHOUT HOLE

NON FORATI

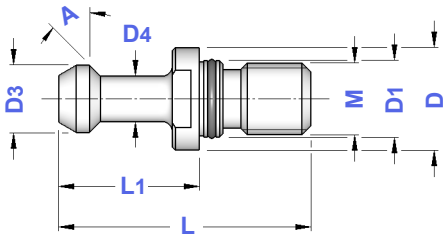
TIPO	Art.	A	M	L	L1	D	D1	D3	D4
SK 40 - 30°	3286	30°	M16	57	32	23	17	15	10
SK 40 - 45°	3291	45°	M16	57	32	23	17	15	10
SK 40 - 90°	3296	90°	M16	57	32	23	17	15	10




BT  **DIN 69871**

CODOLI - NON FORATI CON OR
BT PULL STUD BOLTS WITHOUT HOLE - WITH O RING

TIPO	Art.	A	M	L	L1	D	D1	D3	D4	
SK 40 - 30° OR	4631	30°	M16	57	32	23	17	15	10	0558
SK 40 - 45° OR	4632	45°	M16	57	32	23	17	15	10	0558
SK 40 - 90° OR	4633	90°	M16	57	32	23	17	15	10	0558

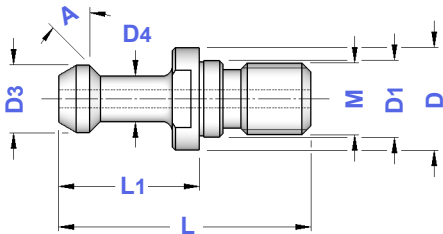



BT  **DIN 69871**

CODOLI - FORATI
BT PULL STUD BOLTS WITH HOLE

FORATI

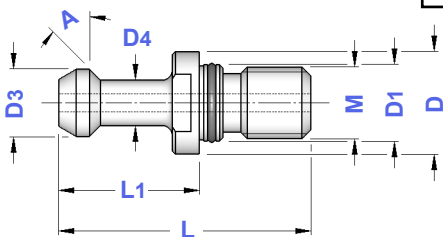
TIPO	Art.	A	M	L	L1	D	D1	D3	D4	Foro
SK 40 - 30° FORATO	4634	30°	M16	57	32	23	17	15	10	4
SK 40 - 45° FORATO	4635	45°	M16	57	32	23	17	15	10	4
SK 40 - 90° FORATO	4636	90°	M16	57	32	23	17	15	10	4



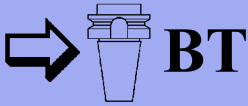
BT  **DIN 69871**

CODOLI - FORATI CON OR
BT PULL STUD BOLTS WITH HOLE AND O RING

TIPO	Art.	A	M	L	L1	D	D1	D3	D4	Foro	
SK 40 - 30° FORO+OR	4637	30°	M16	57	32	23	17	15	10	4	0558
SK 40 - 45° FORO+OR	4638	45°	M16	57	32	23	17	15	10	4	0558
SK 40 - 90° FORO+OR	4639	90°	M16	57	32	23	17	15	10	4	0558



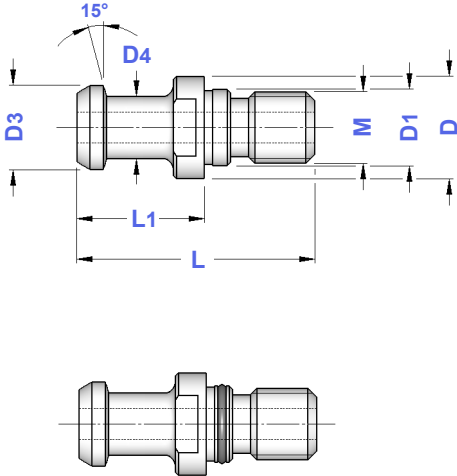
DIN
69871



BT

CODOLI JIS B 6339 - FORATI
JIS B 6339 PULL STUD BOLTS WITH HOLE

JIS B 6339



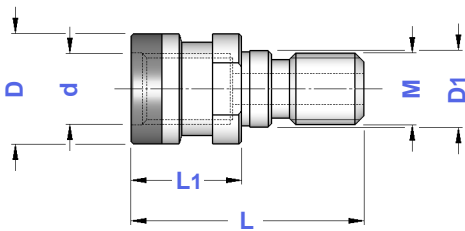
TIPO	Art.	M	D	D1	D3	D4	L	L1	Foro
6339 ISO 30 - FORATO	3334	M12	16,5	12,5	12	8	43	23,4	4
6339 ISO 40 - FORATO	4588	M16	23	17	19	14	54	29	7

CODOLI JIS B 6339 - FORATI CON OR
PULL STUD BOLTS JIS B 6339 WITH HOLE AND O RING

TIPO	Art.	M	D	D1	D3	D4	L	L1	Foro	
6339 ISO 40 - FORO+OR	3097	M16	23	17	19	14	54	29	4	0558
6339 ISO 40 - FORO+OR	3317	M16	23	17	19	14	54	29	7	0558
6339 ISO 50 - FORO+OR	3335	M24	38	25	28	21	74	34	10	0080

**OTT
SYSTEM**

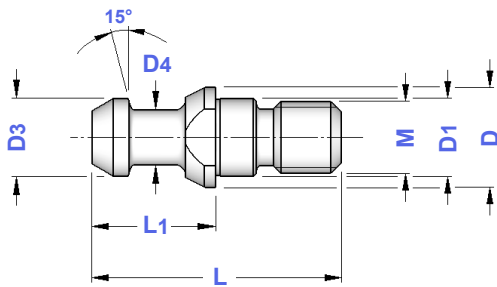
CODOLI ADATTATORI - OTT SYSTEM
OTT SYSTEM - ADAPTOR STUD BOLTS



TIPO	Art.	M	d	D	D1	L1	
OTT M16/L 53 - TC 40	3487	M16	M16	25,3	17	25	7461
OTT M16/L 56 - BT 40	3466	M16	M16	25,3	17	28	7461
OTT M24/L 65 - CONO 50	0087	M24	M24	39,6	25	25	—

**ALTA
VELOCITA'**

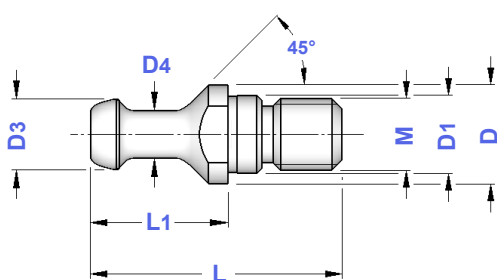
CODOLI ALTA VELOCITA' PER ISO 20
HIGH SPEED PULL STUD BOLTS FOR ISO 20 SHANK



TIPO	Art.	M	D	D1	D3	D4	L	L1
ISO 20 - M 8/L 28	3491	M 8	11	8,5	8,5	6	28,0	14

BIESSE

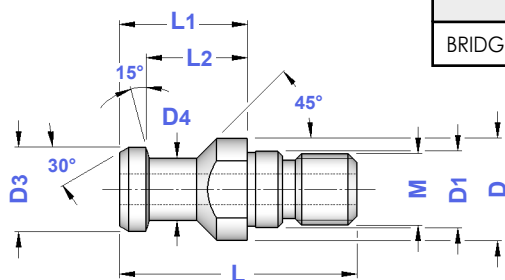
CODOLI TIPO BIESSE
PULL STUD BOLTS BIESSE TYPE



TIPO	Art.	M	D	D1	D3	D4	L	L1
BIESSE ISO 30 - M12	3492	M12	17	13	12	8	44	24

BRIDGEPORT

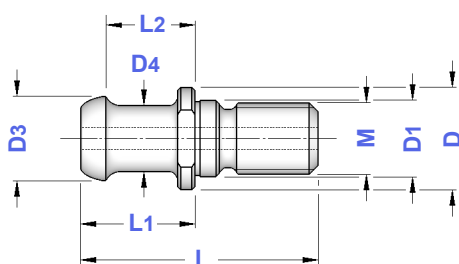
CODOLI TIPO BRIDGEPORT PULL STUD BOLTS BRIDGEPORT TYPE



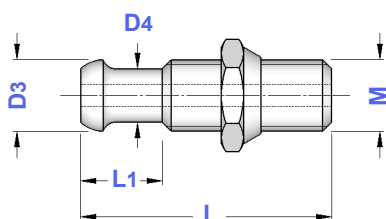
TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
BRIDGEPORT ISO 40 - M16	3359	M16	23	17	19	14	54	29	23	7

CB FERRARI

CODOLI TIPO CB FERRARI PULL STUD BOLTS CB FERRARI TYPE



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
CB FERRARI ISO 40 - M16	4597	M16	23	17	19	15	54	26	20,31	5

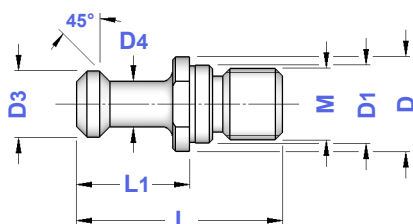


CODOLI TIPO CB FERRARI CON DADO PULL STUD BOLTS CB FERRARI WITH NUT TYPE

TIPO	Art.	M	D3	D4	L	L1	Foro
CB FERRARI ISO 40 - M16	3493	M16	16	12	57	18,5	5

CHIRON

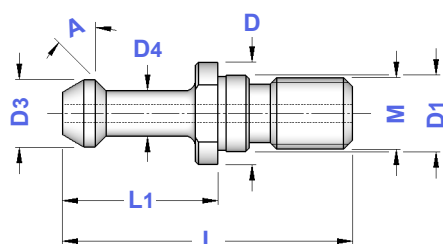
CODOLI TIPO CHIRON PULL STUD BOLTS CHIRON TYPE



TIPO	Art.	M	D	D1	D3	D4	L	L1
CHIRON ISO30 - M 12	4593	M12	16	13	10	6	36	20

CINCINNATI

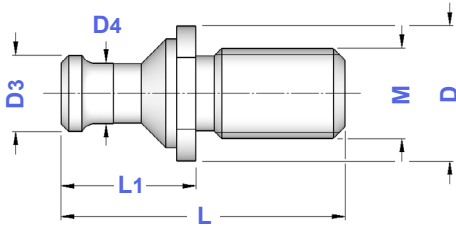
CODOLI TIPO CINCINNATI PULL STUD BOLTS CINCINNATI TYPE



TIPO	Art.	A	M	L	L1	D	D1	D3	D4	Foro
SK 40 - 45° FORATO	4583	45°	M16	67,3	36,6	22,2	17	15	10,3	3,8
SK 40 - 45° FORATO	4586	45°	M16	67,3	39,4	22,2	17	15	10,3	3,8

CORREA

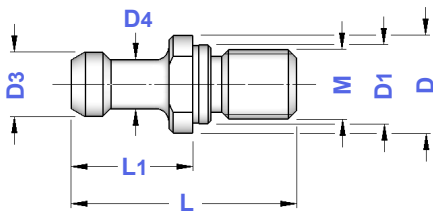
CODOLI TIPO CORREA CORREA TYPE PULL STUD BOLTS CORREA TYPE



TIPO	Art.	M	D	D3	D4	L	L1
CORREA ISO 50 - M 24	4594	M 24	36	20	16	76	36

CORTINI

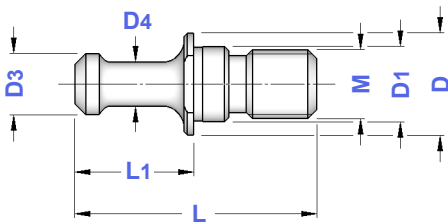
CODOLI TIPO MECCANICA CORTINI PULL STUD BOLTS MECCANICA CORTINI TYPE



TIPO	Art.	M	D	D1	D3	D4	L	L1
CORTINI ISO 30 - M 12	0064	M 12	16	13	10	7	39	21

FAMUP

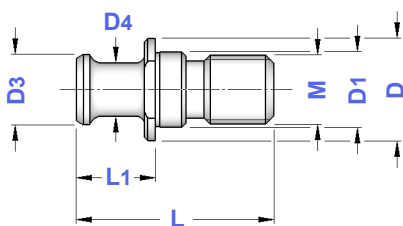
CODOLI TIPO FAMUP PULL STUD BOLTS FAMUP TYPE



TIPO	Art.	M	D	D1	D3	D4	L	L1
FAMUP ISO 30 - M 12	2756	M 12	16	13	9,8	5,8	40	20
FAMUP ISO 40 - M 16	3527	M 16	23	17	13,8	9,8	55	27
FAMUP ISO 40 - M 16	4590	M 16	23	17	13,8	9,8	58	30

GLORIA

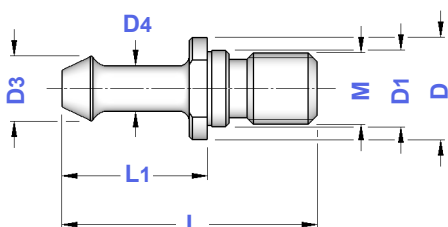
CODOLI TIPO GLORIA PULL STUD BOLTS GLORIA TYPE



TIPO	Art.	M	D	D1	D3	D4	L	L1
GLORIA ISO 40 - M 16	3471	M 16	23	17	16	12	45	18

OLIVETTI

CODOLI TIPO OLIVETTI OCN PULL STUD BOLTS OLIVETTI OCN TYPE

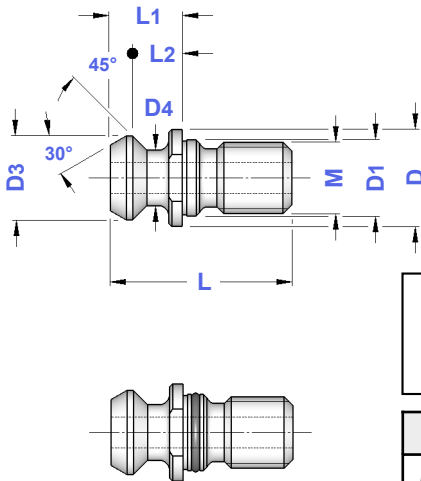


TIPO	Art.	M	D	D1	D3	D4	L	L1
OLIVETTI ISO 40 - M 16	4591	M 16	23	17	14,3	10	58	33

MAZAK

CODOLI TIPO MAZAK - FORATI

PULL STUD BOLTS MAZAK TYPE WITH HOLE



TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
MAZAK ISO 40 - M16	4589	M16	21,8	17	18,79	12,44	41,25	16,25	11,17	7
MAZAK ISO 40 - M16	4592	M16	22,0	17	18,79	12,44	44,10	19,10	14,02	7
MAZAK ISO 50 - M24	3269	M24	35,5	25	28,95	20,82	65,40	25,40	17,78	10

CODOLI TIPO MAZAK - FORATI CON OR

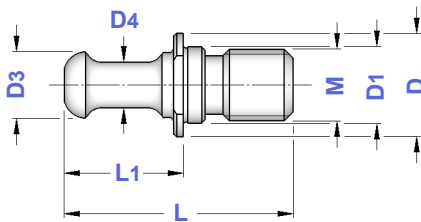
PULL STUD BOLTS MAZAK TYPE WITH HOLE AND O RING

TIPO	Art.	M	D	D1	D3	D4	L	L1	L2	Foro
MAZAK ISO 40 - M16 - FORO+OR	4772	M16	21,8	17	18,79	12,44	41,25	16,25	11,17	7 0558
MAZAK ISO 40 - M16 - FORO+OR	4773	M16	22,0	17	18,79	12,44	44,10	19,10	14,02	7 0558
MAZAK ISO 50 - M24 - FORO+OR	4774	M24	35,5	25	28,95	20,82	65,40	25,40	17,78	10 0080

RAMBAUDI

CODOLI TIPO RAMBAUDI

PULL STUD BOLTS RAMBAUDI TYPE

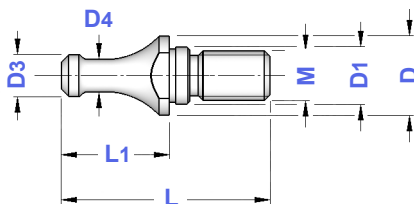


TIPO	Art.	M	D	D1	D3	D4	L	L1
RAMBAUDI ISO 40 - M 16	4595	M16	24,0	17	14,6	10	52,0	27,0
RAMBAUDI ISO 50 - M 24	4596	M24	35,8	25	20,0	16	79,5	39,5

SCM MORBIDELLI

CODOLI TIPO SCM / MORBIDELLI

PULL STUD BOLTS SCM / MORBIDELLI TYPE

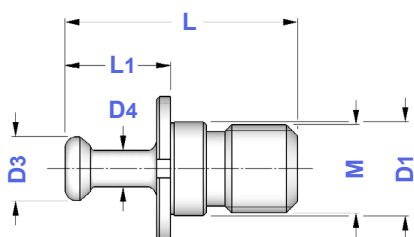


TIPO	Art.	M	D	D1	D3	D4	L	L1
SCM/MORBIDELLI ISO 30-M10	3358	M10	15	11	8,5	6,5	42,5	21,9

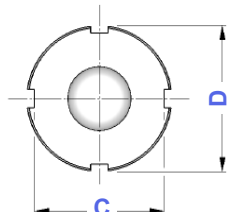
SECMU

CODOLI TIPO SECMU

PULL STUD BOLTS SECMU TYPE

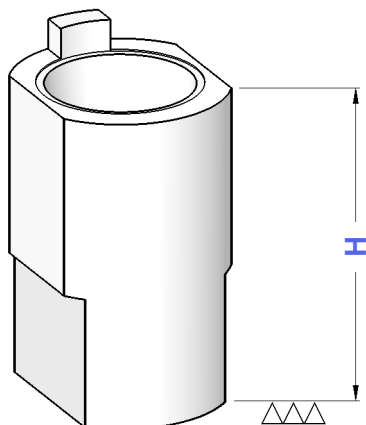


TIPO	Art.	M	D	D1	D3	D4	L	L1	C
SECMU ISO 50 - M 24	3496	M24	40	25	17,5	9,8	64	29	36



ATTREZZI BMU

BOCCOLE DI MONTAGGIO in ACCIAIO STEEL TOOLING CLAMPERS



TIPO	Art.	H
BMU - CONO 30	2190	70
BMU - CONO 40	2191	95
BMU - CONO 50	2193	130

Costruiti in acciaio temperato,
bruniti e rettificati

Made with hardened steel,
burnished and grinded

ATTREZZI SMD

SUPPORTI DI MONTAGGIO A 2 POSIZIONI DOUBLE POSITION TIGHTENING FIXTURES

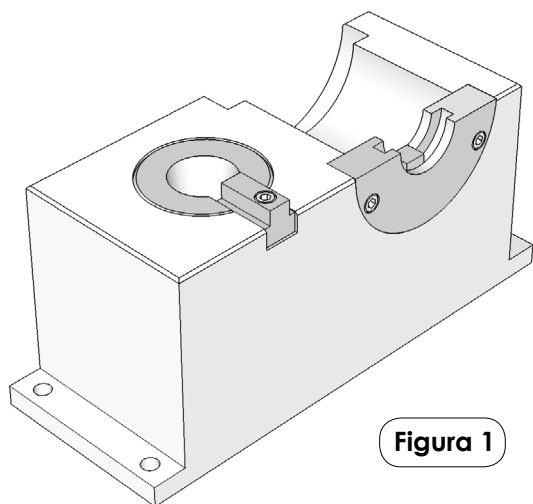


Figura 1

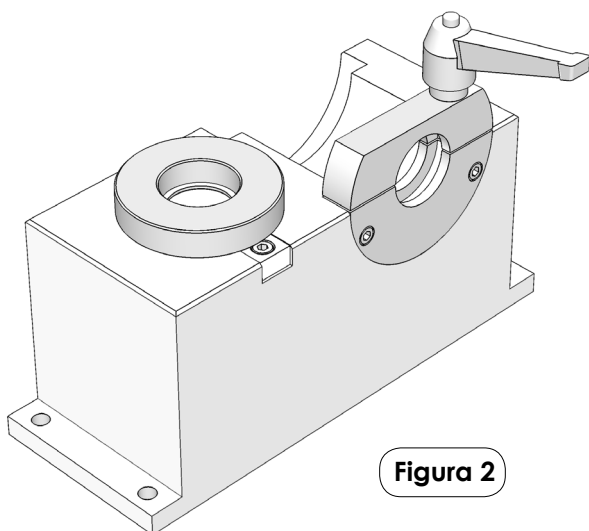


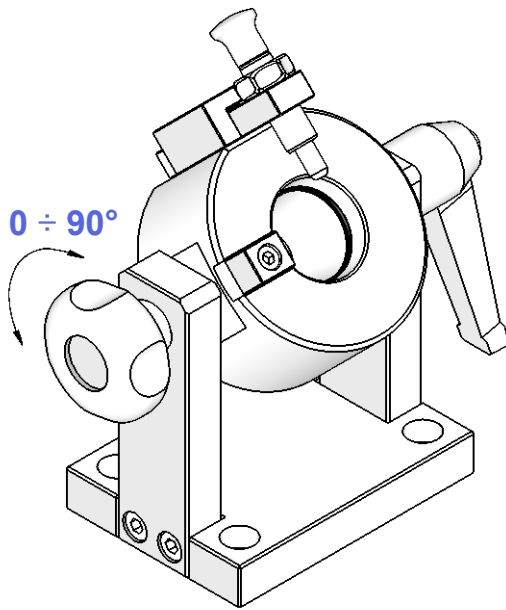
Figura 2

TIPO	Art.	Figura	L x P x H
SMD - ISO 30 / DIN 2080	4605	1	350 x 135 x 155
SMD - ISO 40 / DIN 2080	4606		
SMD - ISO 50 / DIN 2080	4607		
SMD - TC 30 / DIN 69871	4608		
SMD - TC 40 / DIN 69871	4609		
SMD - TC 50 / DIN 69871	4610		
SMD - BT 30 / MAS 403	4611		
SMD - BT 40 / MAS 403	4612		
SMD - BT 50 / MAS 403	4613		




SMD - HSK 32 A+C	4618	2	350 x 135 x 155
SMD - HSK 40 A+C	4619		
SMD - HSK 50 A+C	4620		
SMD - HSK 63 A+C	4621		
SMD - HSK 100 A+C	4622		
SMD - HSK 40 B+D	9490		
SMD - HSK 50 B+D	9491		
SMD - HSK 63 B+D	9492		
SMD - HSK 100 B+D	9493		
SMD - HSK 40 E+F	4623		
SMD - HSK 50 E+F	4624		
SMD - HSK 63 E+F	4625		

SMD - CAPTO C 32 - PSC 32	9494	2	350 x 135 x 155
SMD - CAPTO C 40 - PSC 40	9495		
SMD - CAPTO C 50 - PSC 50	9496		
SMD - CAPTO C 63 - PSC 63	9497		
SMD - CAPTO C 80 - PSC 80	9498		
SMD - CAPTO C 100 - PSC 100	9499		



SMD - VDI 16 / DIN 69880	9341	2	350 x 135 x 155
SMD - VDI 20 / DIN 69880	4614		
SMD - VDI 30 / DIN 69880	4615		
SMD - VDI 40 / DIN 69880	4616		
SMD - VDI 50 / DIN 69880	4617		
SMD - VDI 60 / DIN 69880	9342		





ISO DIN 2080 - DIN 69871 - BT
ISO SHANKS

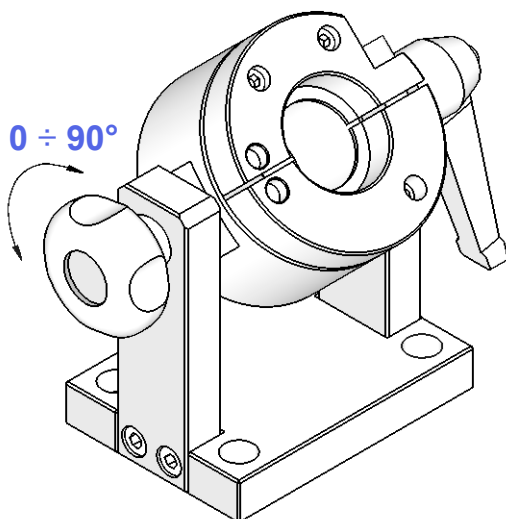
TIPO	Art.	L x P x H			
SMU - CONO 30	4438	135 x 100 x 155	1031	1032	1033
SMU - CONO 40	4439				
SMU - CONO 45	4440	135 x 100 x 160			
SMU - CONO 50	4441	135 x 100 x 195			

HSK DIN 69893 (A+C - B+D - E - F)
HSK DIN 69893 SHANKS

TIPO	Art.	L x P x H		
SMU - HSK 25	4598	135 x 100 x 175	1032	1033
SMU - HSK 32	4599			
SMU - HSK 40	4600			
SMU - HSK 50	4601			
SMU - HSK 63	4602			
SMU - HSK 80	4603	135 x 100 x 205		
SMU - HSK 100	4604			

POLYGON-SHANK (ISO 26623-1) - KM
POLYGON and KM SHANKS

TIPO	Art.	L x P x H		
SMU - KM 25	4598	135 x 100 x 175	1032	1033
SMU - KM 32 - PSC 32	4599			
SMU - KM 40 - PSC 40	4600			
SMU - KM 50 - PSC 50	4601			
SMU - KM 63 - PSC 63	4602			
SMU - KM 80 - PSC 80	4603	135 x 100 x 205		
SMU - KM 100 - PSC 100	4604			



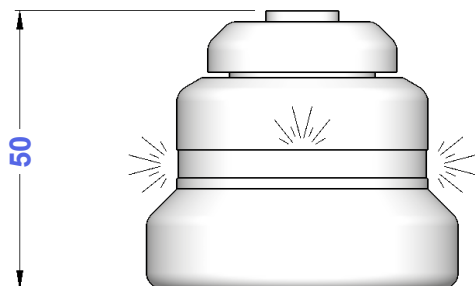
**STRUMENTI
ZOP**

AZZERATORE MAGNETICO LUMINOSO
BRIGHT MAGNETIC RESETTER

BATTERY

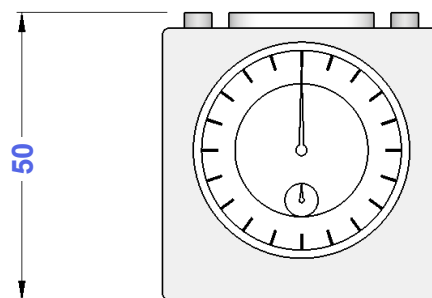


TIPO	Art.	
ZOP 50	0351	0266

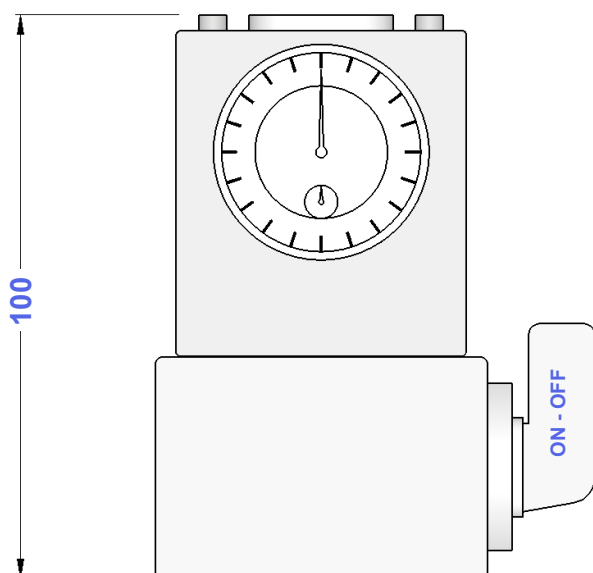


**STRUMENTI
ZDI**

AZZERATORI MAGNETICI CON COMPARATORE
BUILD-IN MAGNETIC RESETTERS WITH COMPARATOR



TIPO	Art.
ZDI 50	0349



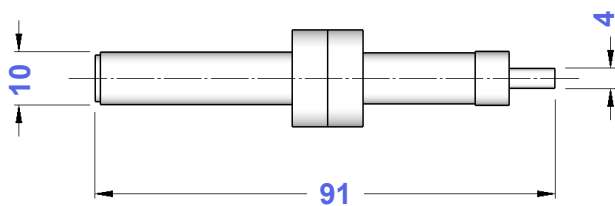
TIPO	Art.
ZDI 100	0354

STRUMENTI CMP

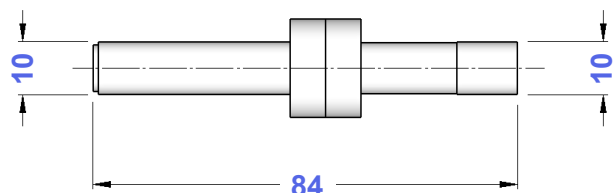
CENTRATORI MECCANICI FLOTTANTI FLOATING POSITION DETECTORS



TIPO	Art.	
CMP 10 - 4	0356	0333



Nella confezione dei CMP è compresa una molla di ricambio
In CMP wrapping is included one spare spring



TIPO	Art.	
CMP 10 - 10	0357	0333

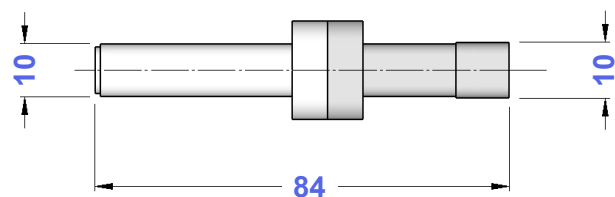
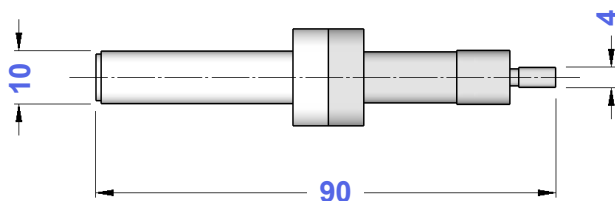


STRUMENTI CMA

CENTRATORI MECCANICI FLOTTANTI ANTIMAGNETICI ANTIMAGNETIC FLOATING POSITION DETECTORS



TIPO	Art.	
CMA 10 - 4	0445	0444



TIPO	Art.	
CMA 10 - 10	0447	0444

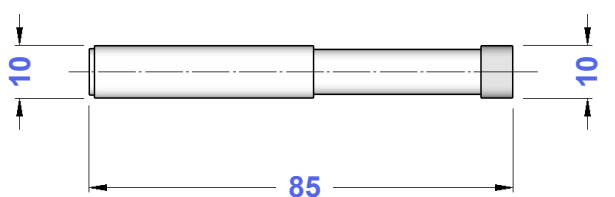


STRUMENTI CMC

CENTRATORE MECCANICO FLOTTANTE ANTIMAGNETICO CON TESTINA CERAMICA ANTIMAGNETIC FLOATING POSITION DETECTOR WITH EARTHENWARE HEAD

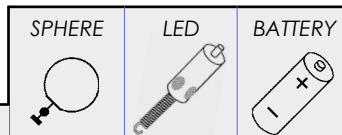


TIPO	Art.	
CMC 10 - 10	0457	0458

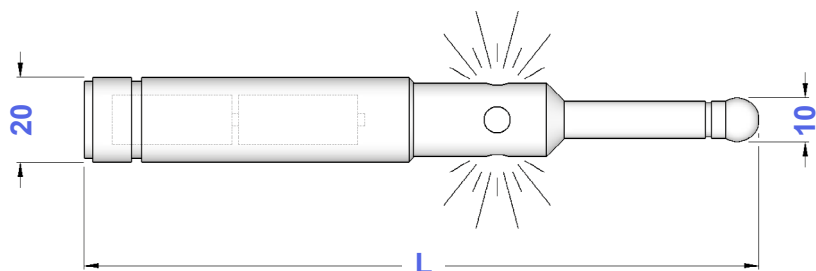


STRUMENTI CSL

CENTRATORI A SFERA LUMINOSI BRIGHT ELECTRONIC POSITION DETECTORS

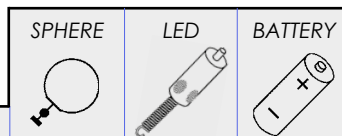


TIPO	Art.	L	SPHERE	LED	BATTERY
CSL 125	0355	125	0587	0545	0562
CSL 160	0358	160	0587	0545	0562

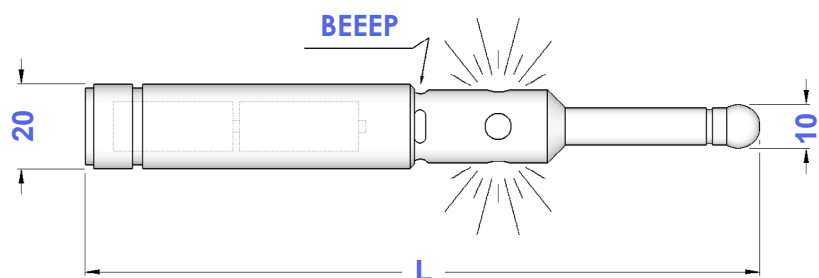


STRUMENTI ES

CENTRATORE A SFERA LUMINOSO E SONORO BRIGHT-SONOROUS ELECTRONIC POSITION DETECTOR

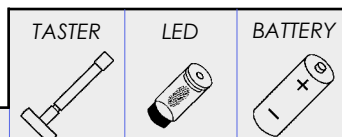


TIPO	Art.	L	SPHERE	LED	BATTERY
ES 20 - 10	0359	160	0587	0549	0562

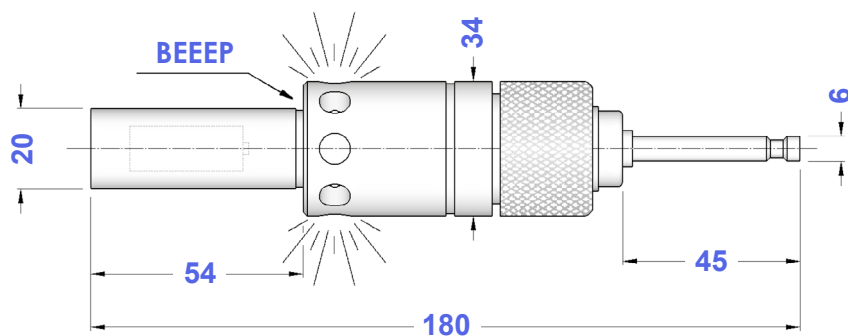


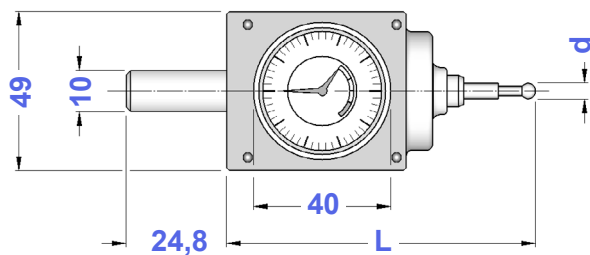
STRUMENTI CTL

CENTRATORE 3D LUMINOSO E SONORO BRIGHT-SONOROUS 3D ELECTRONIC POSITION DETECTOR




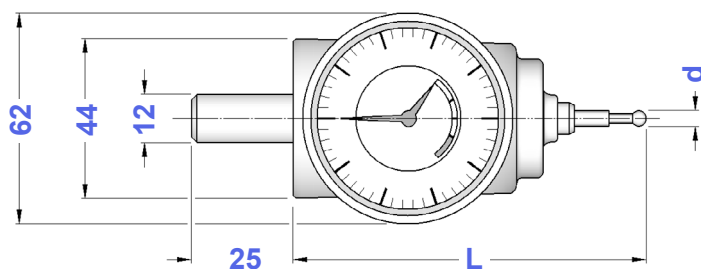
TIPO	Art.	TASTER	LED	BATTERY
CTL 20 - 6	0350	0322	0328	0595






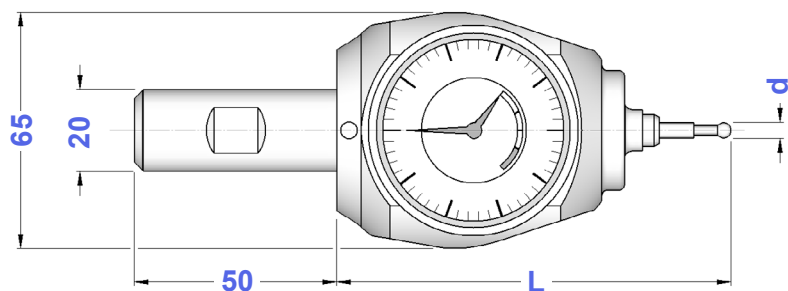
ATTACCO D.10
D.10 SHANK

TIPO	Art.	d	L	
CTZ 10 - 04	0541	4	96	0619
CTZ 10 - 08	0542	8	136	0629




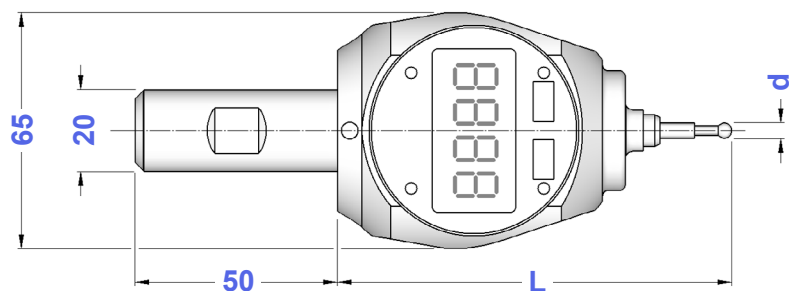
ATTACCO D.12
D.12 SHANK

TIPO	Art.	d	L	
CTN 12 - 04	0543	4	100	0619
CTN 12 - 08	0544	8	140	0629




ATTACCO D.20
D.20 SHANK

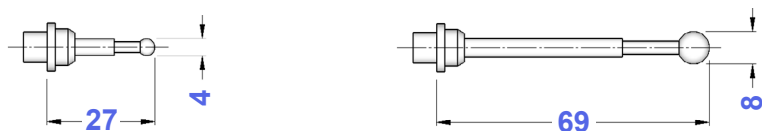
TIPO	Art.	d	L	
CTA 20 - 04	0584	4	113	0619
CTA 20 - 08	0585	8	153	0629



DIGITALE - ATTACCO D.20
DIGITAL - D.20 SHANK

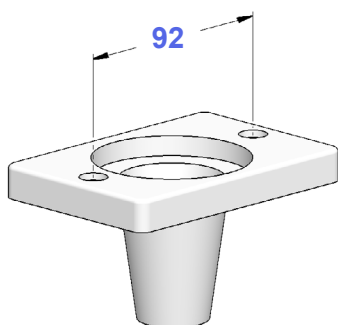
TIPO	Art.	d	L	
CTD 20 - 04	0581	4	113	0619
CTD 20 - 08	0582	8	153	0629

ASTINE CERAMICHE
EARTHENWARE TASTERS

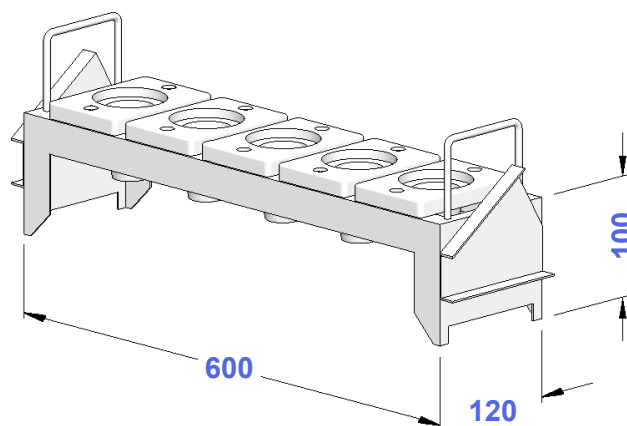



TIPO	Art.
ASTINA CORTA d. 4	0619
ASTINA LUNGA d. 8	0629

BOCCOLE
PLASTIC BUSHES



UNITA' DA BANCO
BENCH UNITIES



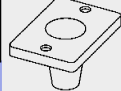
TIPO	Art.	 0033
BOCCOLA ISO 30	4416	
BOCCOLA ISO 40	4417	
BOCCOLA ISO 45	4418	
BOCCOLA ISO 50	4419	

BOCCOLA HSK 32 A+C+E	9440	0033
BOCCOLA HSK 40 A+C+E	9441	
BOCCOLA HSK 50 A+C+E	4430	
BOCCOLA HSK 63 A+C+E	4431	
BOCCOLA HSK 80 A+C+E	9442	
BOCCOLA HSK100 A+C+E	5543	
BOCCOLA HSK 40 B+D+F	9440	0033
BOCCOLA HSK 50 B+D+F	9441	
BOCCOLA HSK 63 B+D+F	4430	
BOCCOLA HSK 80 B+D+F	4431	
BOCCOLA HSK100 B+D+F	9442	
BOCCOLA HSK125 B+D+F	5543	

BOCCOLA CAPTO C 32 / PSC 32	9443	0033
BOCCOLA CAPTO C 40 / PSC 40	9444	
BOCCOLA CAPTO C 50 / PSC 50	9445	
BOCCOLA CAPTO C 63 / PSC 63	9446	
BOCCOLA CAPTO C 80 / PSC 80	9447	

BOCCOLA CM 2	9448	0033
BOCCOLA CM 3	9449	
BOCCOLA CM 4	4400	
BOCCOLA CM 5	4418	

BOCCOLA Ø 32 - VDI 30	5531	0033
BOCCOLA Ø 40 - VDI 40	5532	
BOCCOLA Ø 50 - VDI 50	5533	

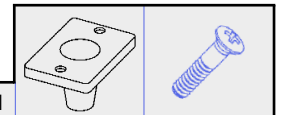
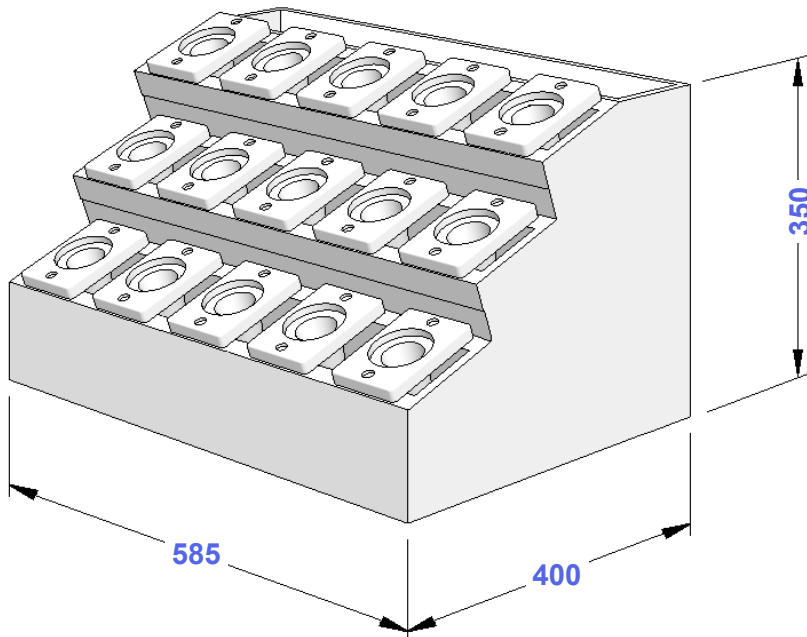
TIPO	Art.	N° SEDI		
UNITÀ ISO 30	4404	6		4416
UNITÀ ISO 40	4405	6		4417
UNITÀ ISO 45	4330	6		4418
UNITÀ ISO 50	4406	5		4419

UNITÀ HSK 32 A+C+E	9450	6	9440
UNITÀ HSK 40 A+C+E	9451	6	9441
UNITÀ HSK 50 A+C+E	4428	6	4430
UNITÀ HSK 63 A+C+E	4429	6	4431
UNITÀ HSK 80 A+C+E	9452	5	9442
UNITÀ HSK100 A+C+E	4794	5	5543
UNITÀ HSK 40 B+D+F	9450	6	9440
UNITÀ HSK 50 B+D+F	9451	6	9441
UNITÀ HSK 63 B+D+F	4428	6	4430
UNITÀ HSK 80 B+D+F	4429	6	4431
UNITÀ HSK100 B+D+F	9452	5	9442
UNITÀ HSK125 B+D+F	4794	5	5543

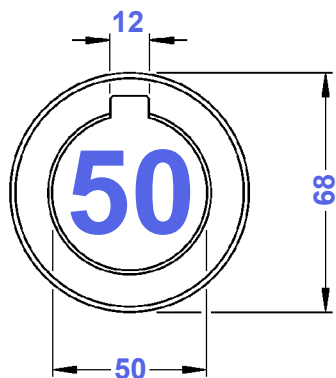
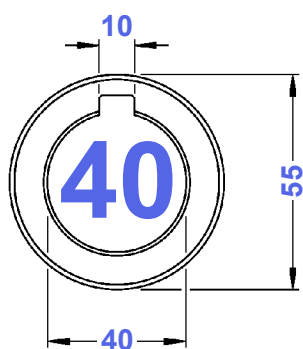
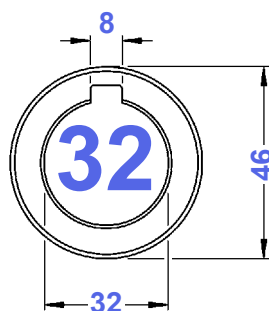
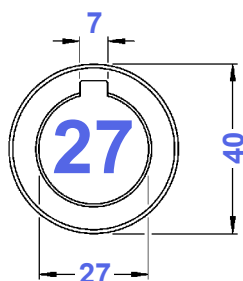
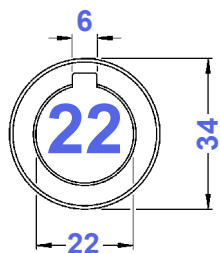
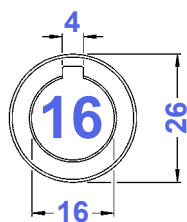
UNITÀ CAPTO C 32 / PSC 32	9453	6	9443
UNITÀ CAPTO C 40 / PSC 40	9454	6	9444
UNITÀ CAPTO C 50 / PSC 50	9455	6	9445
UNITÀ CAPTO C 63 / PSC 63	9456	6	9446
UNITÀ CAPTO C 80 / PSC 80	9457	5	9447

UNITÀ CM 2	9458	6	9448
UNITÀ CM 3	9459	6	9449
UNITÀ CM 4	4329	6	4400
UNITÀ CM 5	4330	6	4418

UNITÀ Ø 32 - VDI 30	5369	5	5531
UNITÀ Ø 40 - VDI 40	5370	5	5532
UNITÀ Ø 50 - VDI 50	5371	4	5533



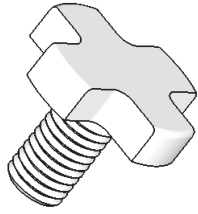
TIPO	Art.	N° SEDI		
MAG. ISO 30	3700	15	4416	0033
MAG. ISO 40	3701	15	4417	
MAG. ISO 45	3702	15	4418	
MAG. ISO 50	3703	12	4419	
MAG. HSK 32 A+C+E	9460	15	9440	0033
MAG. HSK 40 A+C+E	9461	15	9441	
MAG. HSK 50 A+C+E	3750	15	4430	
MAG. HSK 63 A+C+E	3751	15	4431	
MAG. HSK 80 A+C+E	9462	12	9442	
MAG. HSK100 A+C+E	3875	12	5543	
MAG. HSK 40 B+D+F	9460	15	9440	0033
MAG. HSK 50 B+D+F	9461	15	9441	
MAG. HSK 63 B+D+F	3750	15	4430	
MAG. HSK 80 B+D+F	3751	15	4431	
MAG. HSK100 B+D+F	9462	12	9442	
MAG. HSK125 B+D+F	3875	12	5543	
MAG. CAPTO C 32 / PSC 32	9463	15	9443	0033
MAG. CAPTO C 40 / PSC 40	9464	15	9444	
MAG. CAPTO C 50 / PSC 50	9465	15	9445	
MAG. CAPTO C 63 / PSC 63	9466	15	9446	
MAG. CAPTO C 80 / PSC 80	9467	12	9447	
MAG. CM 2	9468	15	9448	0033
MAG. CM 3	9469	15	9449	
MAG. CM 4	3696	15	4400	
MAG. CM 5	3702	15	4418	
MAG. Ø 32 - VDI 30	3705	15	5531	0033
MAG. Ø 40 - VDI 40	3706	15	5532	
MAG. Ø 50 - VDI 50	5557	12	5533	



TIPO	Articolo	Spessori - Thickness
AD - D.16	4084	0,03 - 0,04 - 0,05 - 0,06 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 10,0 - 20,0 - 30,0
AD - D.22	4085	0,03 - 0,04 - 0,05 - 0,06 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 10,0 - 20,0 - 30,0 ————— 60,0 100,0
AD - D.27	4086	0,03 - 0,04 - 0,05 - 0,06 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 10,0 - 20,0 - 30,0 ————— 60,0 100,0
AD - D.32	4087	0,03 - 0,04 - 0,05 - 0,06 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 10,0 - 20,0 - 30,0 ————— 60,0 100,0
AD - D.40	4088	0,03 - 0,04 - 0,05 - 0,06 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 10,0 - 20,0 - 30,0 ————— 60,0 100,0
AD - D.50	4089	0,05 - 0,06 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 10,0 - 20,0 - 30,0 ————— 60,0 100,0

VTC

VITI DI FISSAGGIO FRESA CON TESTA A CROCE MILL LOCKING CROSS HEAD SCREWS

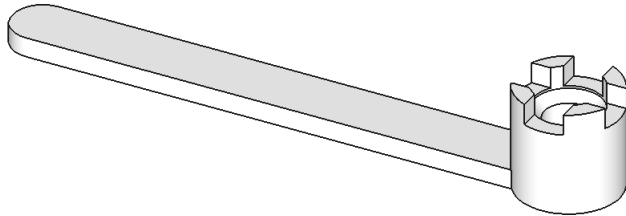


TIPO	Art.	
VTC M 8/D.16	4985	4562
VTC M 10/D.22	4986	4563
VTC M 12/D.27	4987	4564
VTC M 16/D.32	4988	4565
VTC M 20/D.40	4989	4566
VTC M 24/D.50	4990	4567



CH-VTC

CHIAVI PER VITI TESTA A CROCE WRENCHES FOR CROSS HEAD SCREWS

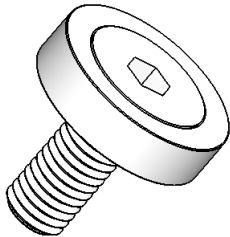


TIPO	Art.	
CH 16 VTC	4562	4985
CH 22 VTC	4563	4986
CH 27 VTC	4564	4987
CH 32 VTC	4565	4988
CH 40 VTC	4566	4989
CH 50 VTC	4567	4990



VTT

VITI DI FISSAGGIO FRESA A TESTA TONDA MILL LOCKING ROUND HEAD SCREWS

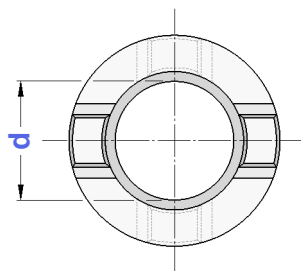
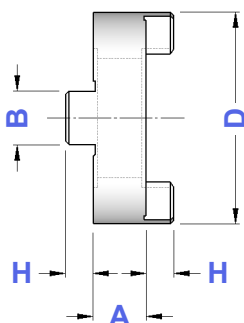


TIPO	Art.	
VTT M 10/D.22	4980	E. 6
VTT M 12/D.27	4981	E. 8
VTT M 16/D.32	4982	E. 10
VTT M 20/D.40	4983	E. 12



AT

GIUNTI DI TRASCINAMENTO PER PORTAFRESA COMBINATI CLUTCH DRIVE RINGS FOR DIN 6358 SHELL END MILL HOLDERS



TIPO	Art.	D	H	A	B
AT - d. 16	4090	32	5,0	10	8
AT - d. 22	4091	40	5,6	12	10
AT - d. 27	4092	48	6,3	12	12
AT - d. 32	4093	58	7,0	14	14
AT - d. 40	4094	70	8,0	14	16
AT - d. 50	4095	90	9,0	16	18

TPF

TASSELLI PER PORTAFRESE FISSI DOWELS FOR FACE MILL HOLDERS

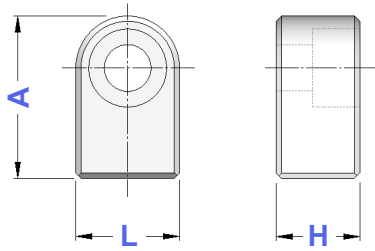


Figura 1

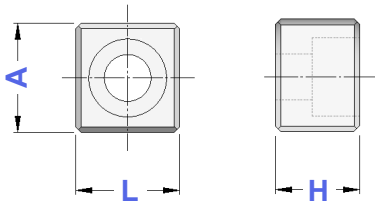
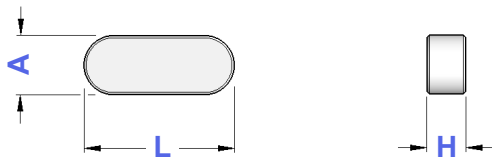


Figura 2

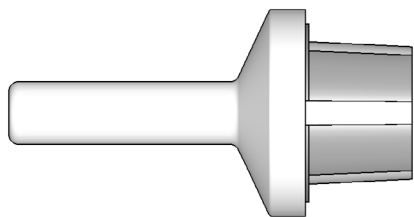
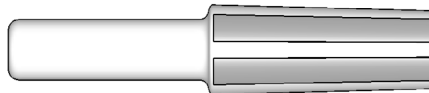
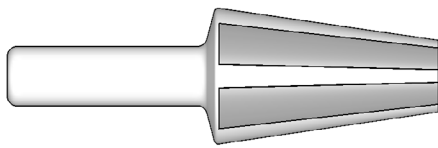
TIPO	Art.	H	L	A	Fig.	
TPF - D. 13	7433	6,5	8,0	13,0	1	0201
TPF - D. 16	7434	7,0	8,0	13,0	1	0201
	7421	10,5	8,0	13,0	1	0255
TPF - D. 22	7435	8,0	10,0	15,6	1	0203
	7427	11,6	10,0	15,6	1	0256
TPF - D. 27	7436	9,0	12,0	18,3	1	0205
	7428	13,3	12,0	18,3	1	7414
TPF - D. 32	7437	11,0	14,0	21,0	1	0482
	7439	15,0	14,0	21,0	1	0099
	7429	20,5	14,0	21,0	1	0099
TPF - D. 40	7438	13,0	16,0	24,0	1	0207
	0210	16,0	15,9	15,5	2	0207
TPF - D. 60	7430	20,5	16,0	24,0	1	0099
	0211	25,0	25,4	28,0	2	0407

CHIAVETTE

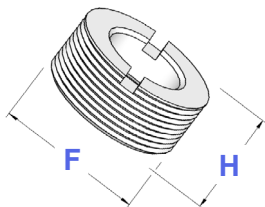
CHIAVETTE KEYS



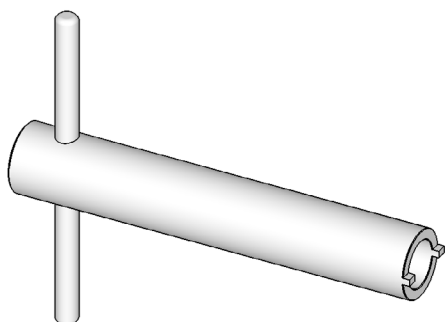
Art.	A	H	L
0101	3,7	2	9,66
0103	3	4	10
0041	4	4	12
0115	4	4	20
0147	4	4	22
0258	5	4	18
0107	5	4	20
0044	6	6	15
0108	6	6	20
0116	6	6	25
0148	6	6	32
0045	7	7	16
0122	7	7	25
0149	7	7	50
0047	8	7	16
0111	8	7	25
0125	8	7	28
0150	8	7	50
0114	10	8	30
0133	10	8	32
0151	10	8	50
0137	12	8	36
0152	12	8	50

TP**TAMPONI PULITORI**
TAPER CLEANER

TIPO	Art.
TP - ISO 30	4407
TP - ISO 40	4408
TP - ISO 45	4409
TP - ISO 50	4410
TP - CM. 1	4411
TP - CM. 2	4412
TP - CM. 3	4413
TP - CM. 4	4414
TP - CM. 5	4415
TP - CM. 6	5065
TP - HSK 32 A/C/E	5205
TP - HSK 40 A/C/E	5206
TP - HSK 50 A/C/E	5207
TP - HSK 63 A/C/E	5208
TP - HSK 80 A/C/E	5209
TP - HSK100 A/C/E	5210

GS-CM**GHIERE SINISTRE PER RIDUZIONI A CONO MORSE**
LEFT THREADED NUTS FOR MORSE TAPER ADAPTERS

TIPO	Art.	F	H	
GS - CM 1	7420	M 12 x 1 SX	6,5	4568
GS - CM 2	7422	M 15 x 1,5 SX	6,0	4569
GS - CM 3	7423	M 20 x 1,5 SX	6,0	4570
GS - CM 4	7424	M 24 x 1,5 SX	8,5	4571
GS - CM 5	7425	M 36 x 2 SX	11,0	4572

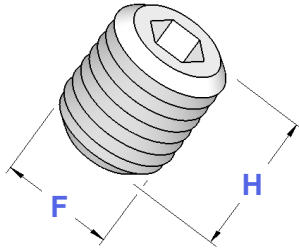
**CH-CM****CHIAVI PER RIDUZIONI A CONO MORSE**
WRENCHES FOR MORSE TAPER ADAPTERS

TIPO	Art.	
CH - CM 1	4568	7420
CH - CM 2	4569	7422
CH - CM 3	4570	7423
CH - CM 4	4571	7424
CH - CM 5	4572	7425



G-WE

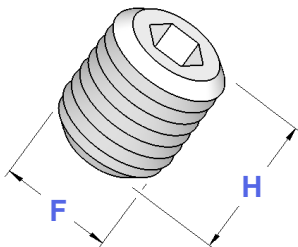
GRANI DI FISSAGGIO PER MANDRINI WELDON WELDON END MILL SCREWS



TIPO	Art.	F x H	Passo
G - WE 6	4970	M 6 x 10	1
G - WE 8	4971	M 8 x 10	1,25
G - WE 10	4972	M 10 x 12	1,5
G - WE 12	4973	M 12 x 16	1,75
G - WE 14	4973	M 12 x 16	1,75
G - WE 16	4974	M 14 x 16	2
G - WE 18	4974	M 14 x 16	2
G - WE 20	4975	M 16 x 16	2
G - WE 25	4976	M 18 x 2 x 20	2
G - WE 32	4977	M 20 x 2 x 20	2
G - WE 40	4977	M 20 x 2 x 20	2
G - WE 50	4978	M 24 x 2 x 20	2

GRANI

GRANI DI REGOLAZIONE E DI FISSAGGIO DIN 913 - DIN 916 SETTING AND LOCKING SCREWS IN ACCORDING WITH DIN 913 - DIN 916



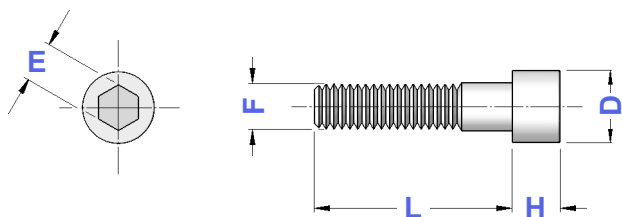
Art.	F x H	Passo
0011	M 4 x 4	0,7
0380	M 4 x 8	0,7
0173	M 4 x 14	0,7
0017	M 5 x 4	0,8
0019	M 5 x 5	0,8
0365	M 5 x 6	0,8
0366	M 5 x 10	0,8
0285	M 5 x 30	0,8
0388	M 5 x 40	0,8
0367	M 6 x 4	1
0368	M 6 x 5	1
0020	M 6 x 6	1
0370	M 6 x 8	1
4970	M 6 x 10	1
0371	M 6 x 12	1
0181	M 6 x 14	1
0208	M 6 x 16	1
0248	M 6 x 20	1
0253	M 6 x 40	1
0372	M 8 x 6	1,25
0021	M 8 x 8	1,25
4971	M 8 x 10	1,25
0375	M 8 x 12	1,25
0382	M 8 x 16	1,25
0183	M 8 x 20	1,25
0249	M 8 x 25	1,25
0284	M 8 x 40	1,25
0223	M 10 x 1 x 8	1
0409	M 10 x 1 x 10	1
0403	M 10 x 1 x 12	1
0385	M 10 x 8	1,5

Art.	F x H	Passo
0060	M 10 x 10	1,5
4972	M 10 x 12	1,5
0376	M 10 x 14	1,5
0377	M 10 x 16	1,5
0186	M 10 x 20	1,5
0250	M 10 x 25	1,5
0417	M 12 x 1 x 12	1
0200	M 12 x 10	1,75
0260	M 12 x 12	1,75
0390	M 12 x 14	1,75
4973	M 12 x 16	1,75
0277	M 12 x 20	1,75
0257	M 12 x 25	1,75
0188	M 12 x 30	1,75
0074	M 14 x 1 x 6	1
0401	M 14 x 1,5 x 16	1,5
0082	M 14 x 10	2
0261	M 14 x 12	2
0068	M 14 x 14	2
4974	M 14 x 16	2
0493	M 16 x 1 x 12	1
0420	M 16 x 1 x 16	1
0404	M 16 x 1,5 x 12	1,5
0073	M 16 x 10	2
0070	M 16 x 12	2
0400	M 16 x 14	2
4975	M 16 x 16	2
0076	M 18 x 2 x 12	2
0075	M 18 x 2 x 17	2
4976	M 18 x 2 x 20	2
0259	M 20 x 2 x 17	2
4977	M 20 x 2 x 20	2
4978	M 24 x 2 x 20	2

segue M10 ➡

VITI

VITI SCREWS



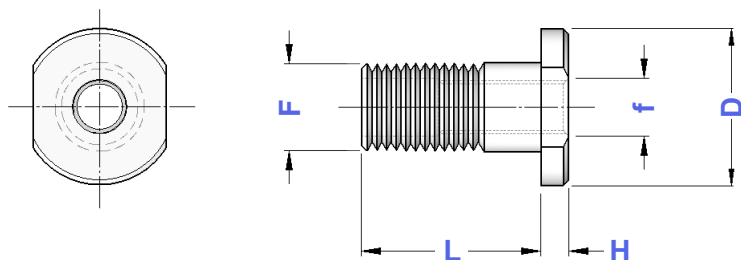
Art.	F	L	D	H	E	Passo
0201	M 3	8	5,5	3	2,5	0,5
0255	M 3	10	5,5	3	2,5	0,5
0203	M 4	10	7,0	4	3	0,7
0256	M 4	12	7,0	4	3	0,7
0205	M 5	12	8,5	5	4	0,8
7414	M 5	18	8,5	5	4	0,8
0484	M 6	10	10,0	6	5	1
0482	M 6	12	10,0	6	5	1
0206	M 6	14	10,0	6	5	1
0207	M 6	18	10,0	6	5	1
7447	M 6	20	8,5	4	4	1
0099	M 6	20	10,0	6	5	1
7415	M 6	25	10,0	6	5	1
0031	M 6	30	10,0	6	5	1
7400	M 6	35	10,0	6	5	1
7418	M 6	50	10,0	6	5	1
0035	M 6	55	10,0	6	5	1

segue ➡

Art.	F	L	D	H	E	Passo
0297	M 8	12	13,0	8	6	1,25
0491	M 8	16	13,0	8	6	1,25
0023	M 8	20	13,0	8	6	1,25
0586	M 8	30	10,0	8	6	1,25
0533	M 8	30	13,0	8	6	1,25
7412	M10	20	16,0	10	8	1,5
7448	M10	30	13,0	10	8	1,5
0120	M10	30	16,0	10	8	1,5
7413	M10	35	16,0	10	8	1,5
7401	M10	45	13,5	10	8	1,5
7405	M10	45	16,0	10	8	1,5
0056	M10	50	16,0	10	8	1,5
0038	M10	70	16,0	10	8	1,5
0407	M12	25	18,0	12	10	1,75
7410	M12	30	18,0	12	10	1,75
7402	M12	35	17,0	12	8	1,75
7403	M12	35	18,0	12	10	1,75
7416	M12	45	18,0	12	10	1,75
0177	M12	50	18,0	12	10	1,75
7455	M12	55	17,0	12	10	1,75
7406	M12	55	18,0	12	10	1,75
0040	M12	70	18,0	12	10	1,75
0055	M12	85	18,0	12	10	1,75
7404	M16	40	20,0	16	10	2
7407	M16	40	21,5	16	14	2
7450	M16	40	24,0	16	14	2
7411	M16	45	21,5	9	12	2
7409	M16	60	20,5	16	14	2
0179	M16	60	21,5	9	12	2
7451	M16	60	24,0	16	14	2
0042	M16	80	20,5	16	14	2
7408	M20	55	30,0	20	17	2,5
7417	M24	60	36,0	13	17	3
0254	M24	90	36,0	13	17	3

RIDUTTORI

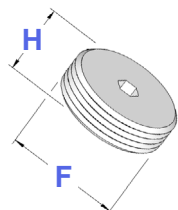
RIDUTTORI REDUCTIONS



Art.	F	f	L	H	D
0276	M10	M 6	19	3	14
0130	M12	M 6	25	3	19
0129	M16	M10	27	3	25
0131	M20	M12	37	6	35

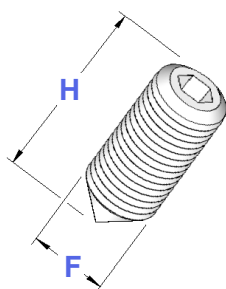
GRANI

GRANI DI REGOLAZIONE E DI FISSAGGIO SETTING AND LOCKING SCREWS



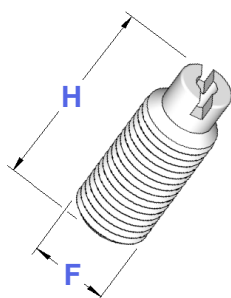
FORO PASSANTE THROUGH HOLE

Art.	F x H	Passo
0190	M 18 x 1,5 x 8	1,5
0191	M 22 x 1,5 x 8	1,5
0195	M 27 x 1,5 x 8	1,5



NON FORATO WITHOUT HOLE

Art.	F x H	Passo
0510	M 4 x 4	0,7
0015	M 4 x 14	0,7
0513	M 5 x 5	0,8
0529	M 5 x 6	0,8
0016	M 5 x 10	0,8
0036	M 5 x 16	0,8
0531	M 6 x 6	1
0557	M 6 x 10	1
0037	M 8 x 8	1,25

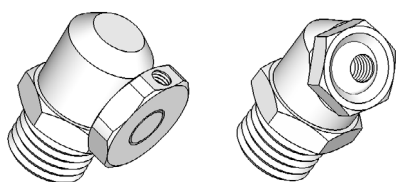


FORO PASSANTE THROUGH HOLE

Art.	F x H	Passo
0233	M 5 x 16	0,8
0235	M 6 x 16	1
0238	M 8 x 20	1,25
0240	M 10 x 25	1,5
0245	M 12 x 30	1,75
0212	M 20 x 20	2,5
0247	M 20 x 30	2,5

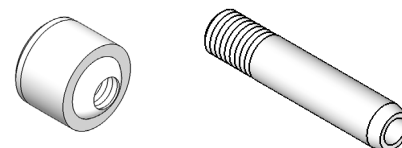
UGELLI

UGELLI E PROLUNGHE NOZZLES AND EXTENSIONS



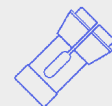
Potete trovare la gamma completa di ugelli e prolunghe a pag. 263

You can find the complete range of nozzles and extensions on page 263

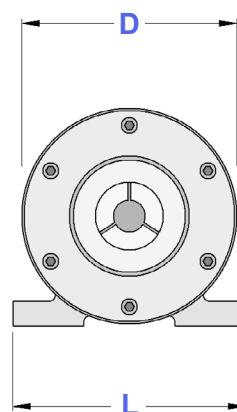
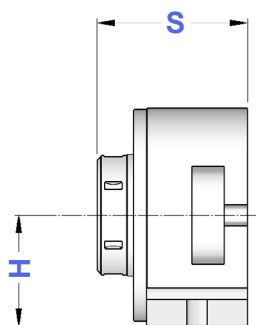
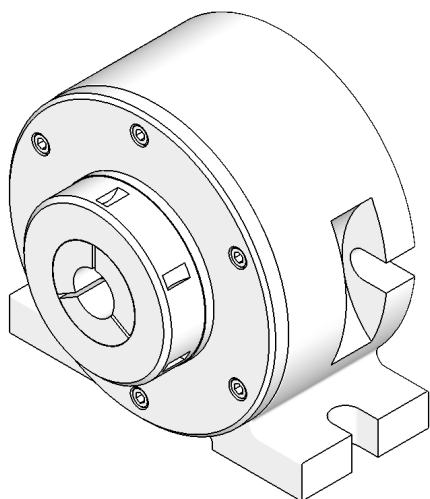


APPARECCHI PNEUMATICI CHIUDIPINZA

PNEUMATIC COLLET CHUCKS

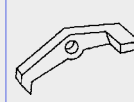
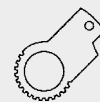


Art.	PRESA MAX	L	D	H	S	Kg. a 5 bar	Kg. a 7 bar	Pinza
2221	∅ 12,5	132	105	54	84	250	350	0722 - 120 E
2222	∅ 18,0	152	130	67	90	410	570	0705 - 140 E
2223	∅ 24,0	152	130	67	90	410	570	0713 - 148 E
2224	∅ 26,0	170	152	77	97	600	840	0701 - 161 E
2226	∅ 42,0	180	165	85	117	700	980	0709 - 173 E

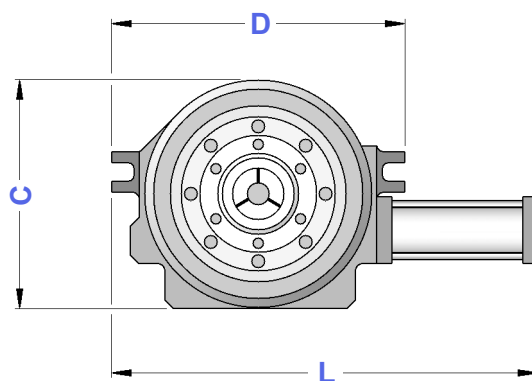
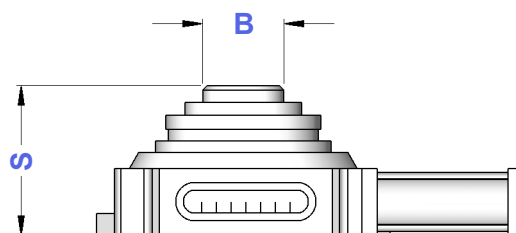
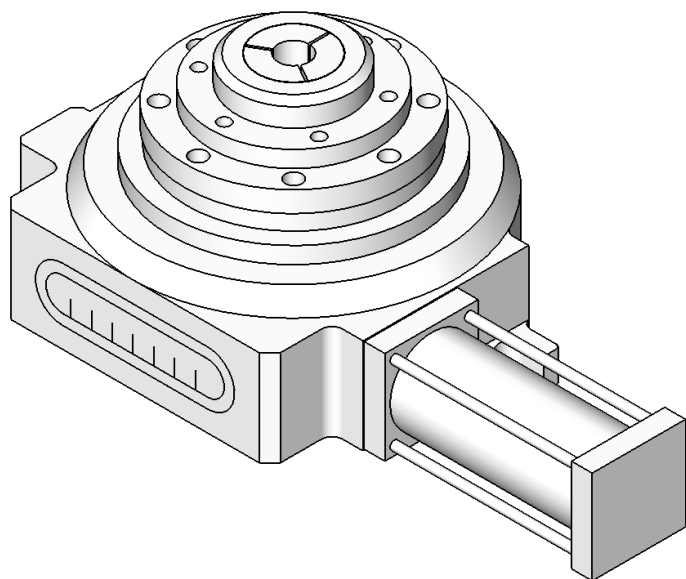


DIVISORI PNEUMATICI CHIUDIPINZA

PNEUMATIC INDEXING FIXTURES COLLET CHUCKS



Art.	PRESA MAX	L	D	C	B	S	Kg. a 5 bar	Kg. a 7 bar	Set. Dentato	Cric. Trasc.	Pinza
2195	∅ 18,0	300	200	155	55	110	410	570	2875	2879	0705 - 140 E
2196	∅ 42,0	420	260	230	80	150	700	980	2884	2888	0709 - 173 E

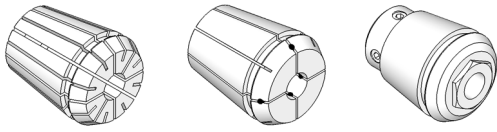


INDICE DELLE PINZE

INDEX OF COLLETS

PINZE ER - DIN 6499

DIN 6499 - ER COLLETS

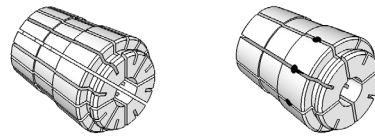


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PINZE TS

TS COLLETS

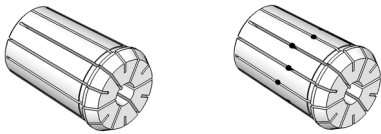


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PINZE EOC - DIN 6388

EOC COLLETS - DIN 6388

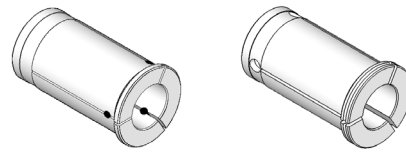


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PINZE CILINDRICHE

CYLINDRICAL COLLETS

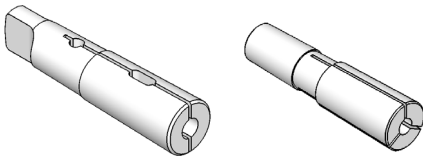


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PINZE CONO MORSE

MORSE TAPER COLLETS

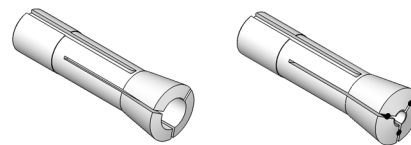


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PINZE BRIDGEPORT R8

BRIDGEPORT R8 COLLETS

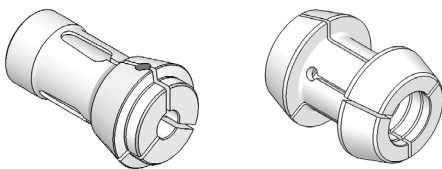


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PINZE PER TORNO

COLLETS FOR LATHE

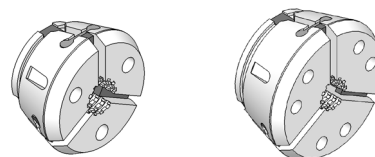


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TESTE DI CHIUSURA

CLAMPING HEADS

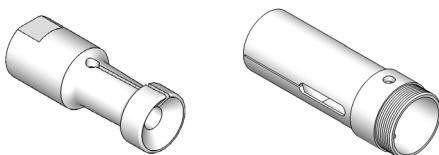


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PINZE DI AVANZAMENTO

FEED FINGERS

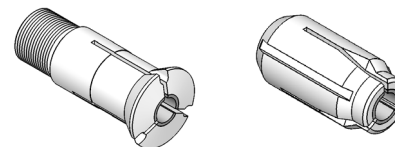


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BUSSOLE CON METALLO DURO

SLEEVES WITH SOLID CARBIDE

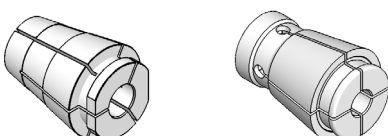


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ALTRE PINZE PORTAUTENSILI

OTHER TOOL COLLETS

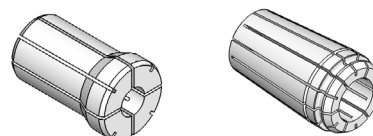


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PINZE TIPO "DA" E "TG"

"DA" AND "TG" TYPE COLLETS



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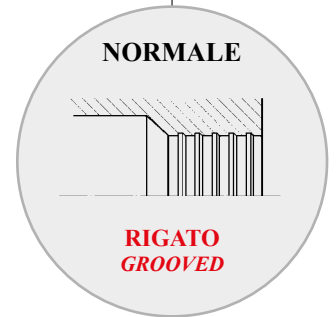
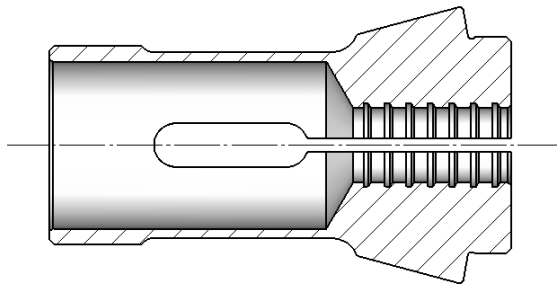
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ESECUZIONI DEGLI INTERNI NELLE PINZE TONDE

BORE EXECUTIONS

PINZA TONDA CON INTERNO RIGATO
a partire da \varnothing 8 mm

GROOVED INSIDE ROUND COLLET
starting from \varnothing 8 mm



Caratteristica: Tenuta assiale in foratura

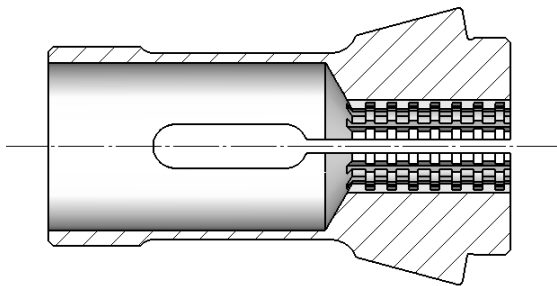
Esempio di Ordinazione \Rightarrow Pinza Tonda Rigata = Art. 0709

Characteristic: *Drilling Axial seal*

Example for Order \Rightarrow 173E Grooved = Art. 0709

PINZA TONDA CON INTERNO QUADRETTATO
a partire da \varnothing 8 mm

SERRATED INSIDE ROUND COLLET
starting from \varnothing 8 mm



Caratteristica: Tenuta assiale in foratura + tenuta in rotazione come momento torcente

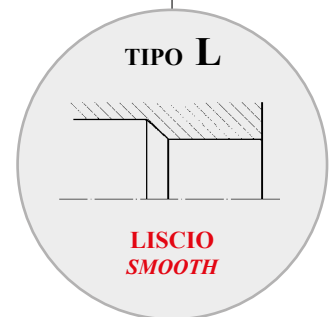
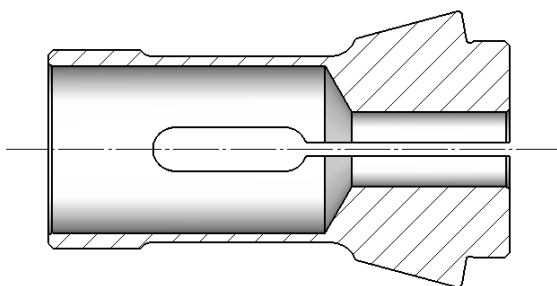
Esempio di Ordinazione \Rightarrow Pinza Tonda Quadrettata = Art. 0709 **S**

Characteristic: *Drilling Axial seal + rotatory seal as twisting moment*

Example for Order \Rightarrow 173E Serrated = Art. 0709 **S**

PINZA TONDA CON INTERNO LISCIO

SMOOTH INSIDE ROUND COLLET






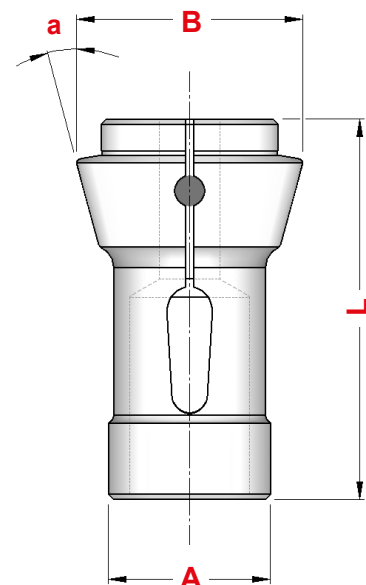
Caratteristica: Adatta per il bloccaggio di diametri finiti: non segna la superficie del materiale

Esempio di Ordinazione \Rightarrow Pinza Tonda Liscia = Art. 0709 **L**




Characteristic: *Suitable to lock finished diameter: doesn't score material surface*

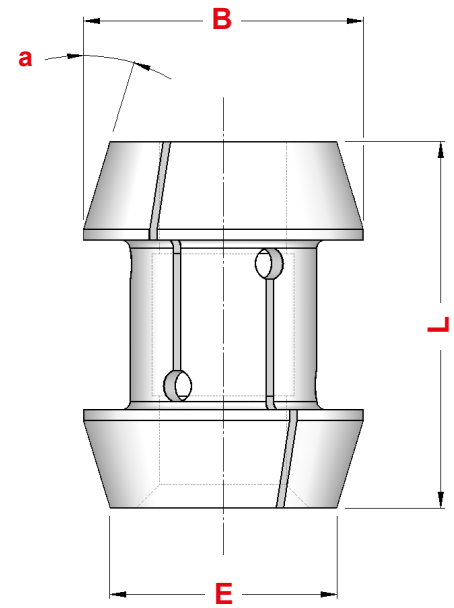
Example for Order \Rightarrow 173E Smooth = Art. 0709 **L**

Tonda Round	Esagonale Hexagonal	Quadra Square	PINZE DI CHIUSURA A CONO SEMPLICE SINGLE CONE CLAMPING COLLETS								DIN 6343		
			Art.	Art.	Art.	A	B	L	α	\varnothing max	\varnothing max	\varnothing max	Einheits
1072	—	—	6,0	10,0	30,0	15°	4,5	—	—	—	—	—	100E
5293	—	—	7,0	10,7	26,0	15°	5,0	—	—	—	—	—	1020E
0721	—	—	8,0	12,0	42,0	16°	6,5	—	—	—	—	—	101E
0725	0949	5000	10,0	15,5	47,5	20°	8,0	6,0	5,0	—	—	—	109E
5232	—	—	10,0	16,0	43,0	15°	7,0	—	—	—	—	—	110E
0347	—	—	12,0	14,5	21,0	16°	8,0	—	—	—	—	—	—
0749	—	—	12,0	17,0	27,0	20°	10,0	—	—	—	—	—	—
1132	—	—	12,0	18,0	64,0	16°	10,0	8,0	7,0	—	—	—	—
0940	0941	0943	13,0	19,0	64,0	16°	10,0	8,0	7,0	—	—	—	116E
0740	0741	0742	14,0	18,0	46,0	13°	10,0	9,0	8,0	—	—	—	117E
0730	—	—	15,0	19,2	24,0	15°	12,0	—	—	—	—	—	—
0722	0723	0724	15,0	21,0	64,0	16°	12,0	10,0	9,0	—	—	—	120E
5308	5309	5310	15,0	22,0	47,0	20°	11,0	9,0	8,0	—	—	—	121E
0913	0914	0915	16,0	22,0	55,0	15°	12,5	11,0	9,0	—	—	—	123E
0813	—	—	17,5	22,0	51,0	15°	14,0	10,0	8,0	—	—	—	125E
5034	5577	—	18,0	24,0	64,0	16°	14,0	12,0	10,0	—	—	—	1248E
0867	0868	0869	18,0	25,0	67,0	15°	13,0	10,0	9,0	—	—	—	127E
0731	—	—	20,0	25,2	28,0	15°	18,0	—	—	—	—	—	—
0954	0955	0956	20,0	26,0	54,0	15°	16,0	12,0	10,0	—	—	—	136E
5299	5300	5301	20,0	27,5	60,0	15°	17,0	15,0	12,0	—	—	—	1299E
0937	0938	0939	20,0	28,0	67,0	16°	16,0	14,0	11,0	—	—	—	138E
0743	0744	0745	22,0	28,0	67,0	13°	16,0	14,0	12,0	—	—	—	139E
0705	0707	0706	22,0	30,0	55,0	15°	18,0	14,0	12,0	—	—	—	140E
5302	5303	5304	22,0	32,0	66,0	16°	17,0	14,0	12,0	—	—	—	1323E
0732	—	—	25,0	30,0	34,0	15°	20,0	17,0	14,0	—	—	—	—
0671	0672	0673	25,0	31,0	54,0	15°	21,0	18,0	15,0	—	—	—	143E
0846	0847	0848	25,0	34,0	65,0	15°	20,0	17,0	14,0	—	—	—	144E
0717	0719	0718	25,0	35,0	77,0	16°	20,0	17,0	15,0	—	—	—	145E
0746	0747	0748	26,0	32,0	67,0	13°	20,0	18,0	15,0	—	—	—	146E
0901	0902	0903	27,0	38,0	72,7	15°	22,0	20,0	16,0	—	—	—	147E
0713	0715	0714	28,0	38,0	70,0	15°	23,0	20,0	17,0	—	—	—	148E
0931	0932	0933	30,0	38,0	65,0	15°	26,0	22,0	18,0	—	—	—	1446E
0727	0728	0729	30,0	42,0	80,0	16°	25,0	23,0	19,0	—	—	—	157E
5305	5306	5307	32,0	40,0	65,0	15°	26,0	23,0	19,0	—	—	—	1473E
5435	—	—	32,0	42,0	80,0	15°	28,0	22,0	18,0	—	—	—	—
0701	0703	0702	32,0	45,0	75,0	15°	26,0	24,0	20,0	—	—	—	161E
0615	0616	0617	35,0	43,0	70,0	15°	25,0	24,0	20,0	—	—	—	162E
0764	0766	0765	35,0	48,0	80,0	15°	30,0	27,0	22,0	—	—	—	163E
0827	0828	0830	36,0	48,0	90,0	15°	30,0	27,0	22,0	—	—	—	—
0970	0972	0973	37,0	47,0	92,0	16°	32,0	27,0	22,0	—	—	—	1536E
0837	0839	0838	38,0	50,3	86,0	15°	32,0	28,0	25,0	—	—	—	—
0919	0920	0921	38,1	49,0	107,5	15°	32,0	27,0	22,0	—	—	—	164E
0861	0862	0863	42,0	55,0	94,0	15°	37,0	32,0	26,0	—	—	—	171E
0709	0711	0710	48,0	60,0	94,0	15°	42,0	38,0	30,0	—	—	—	173E
0666	0667	0668	52,0	63,0	92,0	15°	46,0	38,0	32,0	—	—	—	—
2424	2425	2426	58,0	70,0	94,0	15°	52,0	45,0	36,0	—	—	—	177E
0859	0870	0872	60,0	72,0	102,0	15°	52,0	46,0	36,0	—	—	—	—
0759	0760	0761	66,0	84,0	110,0	15°	60,0	52,0	42,0	—	—	—	185E
0647	0648	0649	80,0	98,0	115,0	15°	70,0	60,0	50,0	—	—	—	—
0826	0829	0831	88,0	106,0	115,0	15°	80,0	68,0	56,0	—	—	—	190E
0851	0852	0853	90,0	107,0	130,0	15°	80,0	68,0	56,0	—	—	—	193E
0681	0683	0684	95,0	117,0	125,0	15°	80,0	68,0	56,0	—	—	—	—
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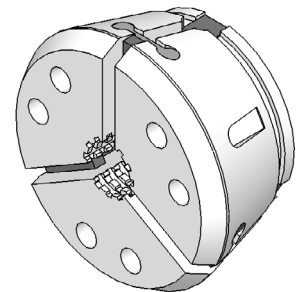
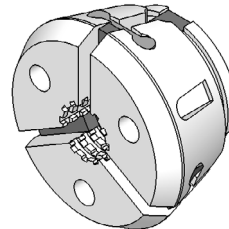
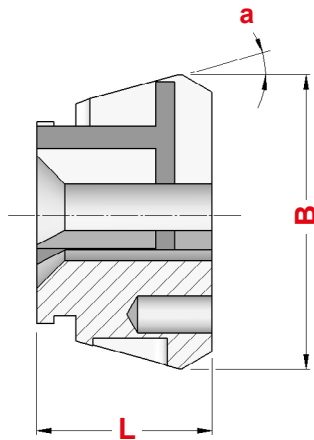
PINZE DI CHIUSURA A DOPPIO CONO DOUBLE CONE CLAMPING COLLETS






Tonda Round	Esagonale Hexagonal	Quadra Square										
			Art.	Art.	Art.	B	L	E	α	\varnothing max	\varnothing max	\varnothing max
0843	0844	0845	26,0	55	18,0	25°	15,0	13,0	11,0			
5337	5338	5339	34,0	56	27,0	17° 30'	26,0	22,0	18,0			
0704	0696	0697	34,5	74	28,0	25°	26,0	22,0	18,0			
0916	0917	0918	40,5	75	33,0	25°	30,0	25,0	21,0			
0883	0884	0885	42,0	82	37,5	17°	30,0	27,0	21,0			
0753	0754	0755	50,0	80	39,0	20°	36,0	32,0	25,0			
0739	0757	0758	60,0	80	49,0	17°	45,0	38,0	30,0			
0756	0762	0763	71,6	100	60,0	17°	55,0	46,0	38,0			
0854	0855	0856	70,0	80	60,0	16°	52,0	45,0	35,0			
0822	0824	0825	81,0	90	70,0	17°	60,0	52,0	40,0			
0927	0928	5053	91,0	100	80,0	17°	70,0	60,0	50,0			
0892	0894	0899	108,0	105	95,0	17°	80,0	68,0	56,0			
0934	0944	0946	130,0	120	115,0	17°	100,0	86,0	70,0			



TESTE DI SERRAGGIO AD INNESTO FRONTALE FRONT LOCK CLAMPING HEADS

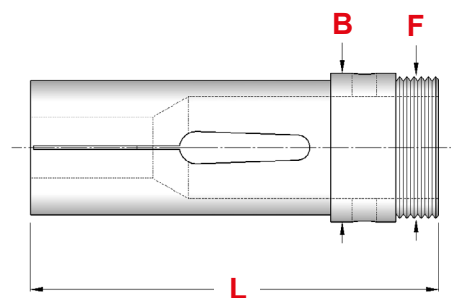
TSH



Tipo	Tonda Round	Esagonale Hexagonal	Quadra Square	B	L	α						Einheits
	Art.	Art.	Art.				LISCIO SMOOTH	RIGATO GROOVED	QUADRETTATO SERRATED	max	max	
TSH.32 G	2090	—	—	57,8	44	12°	6 ÷ 32	—	—	—	—	771E
TSH.32	2091	2092	2097	57,8	47	12°	6 ÷ 7	8 ÷ 11	12 ÷ 32	27,0	22,0	772E
TSH.42 G	2173	—	—	79,3	42	15°	6 ÷ 42	—	—	—	—	781E
TSH.42	2174	2175	2646	79,3	47	15°	6 ÷ 7	8 ÷ 11	12 ÷ 42	36,0	30,0	782E
TSH.52	2203	2204	2205	79,3	46	15°	6 ÷ 52	8 ÷ 11	12 ÷ 52	45,0	36,0	783E
TSH.65 G	2321	—	—	99,5	53	15°	6 ÷ 65	—	—	—	—	787E
TSH.65	2322	2323	2383	99,5	58	15°	6 ÷ 7	8 ÷ 11	12 ÷ 65	56,0	46,0	788E
TSH.80	2647	2648	2649	114,5	53	15°	6 ÷ 80	8 ÷ 11	12 ÷ 80	68,0	56,0	791E
TSH.100	2651	2652	2653	144,5	59	15°	42 ÷ 100	—	42 ÷ 100	86,0	70,0	797E

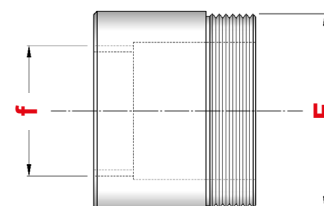
CONTROPINZE DI AVANZAMENTO FEED FINGERS

**DIN
6344**



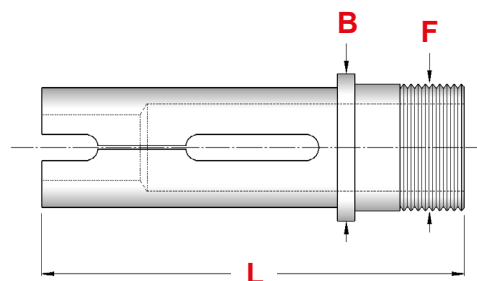
Tonda Round	Esagonale Hexagonal	Quadra Square	Art.	Art.	Art.	B	L	F	∅ max	∅ max	∅ max	Einheits
0603	0604	0605	18	70	M 16 x 1	12,0	11,0	9,0	207E			
0874	0875	0876	24	85	M 22 x 1	19,0	17,0	12,0	220E			
0905	0906	5243	30	95	M 28 x 1	25,0	22,0	17,0	236E			
0612	0613	0614	31	90	M 29 x 1	25,0	22,0	19,0	237E			
0877	0878	0879	42	116	M 40 x 1	36,0	32,0	26,0	254E			
0922	0923	0924	46	123	M 43 x 0,75 SX	40,0	34,0	28,0	258S			
0880	0881	0882	60	140	M 58 x 1	52,0	45,0	36,0	273E			

RIDUTTORE REDUCTION



Art.	Tipo	F	f
2749	INDEX 25 riduzione a INDEX 18	M 29 x 1	M 22 x 1
2750	INDEX 36/B42 riduzione a INDEX 24/B30	M 40 x 1	M 28 x 1
2751	INDEX 36/B42 riduzione a INDEX 25	M 40 x 1	M 29 x 1
2761	INDEX 52/B60 riduzione a INDEX 36/B42	M 58 x 1	M 40 x 1

CONTROPINZE DI AVANZAMENTO PER MANDATA ESTERNA EXTERNAL FEED FINGERS



Tonda Round	Esagonale Hexagonal	Quadra Square	Art.	Art.	Art.	B	L	F	∅ max	∅ max	∅ max	Einheits
0905L	0906L	5243L	42	120	M 36 x 1,5	30,0	26,0	21,0	242E			
0877L	0878L	0879L	56	138	M 50 x 1,5	42,0	36,0	29,0	259E			
0880L	0881L	0882L	75	138	M 68 x 1,5	60,0	52,0	42,0	278E			

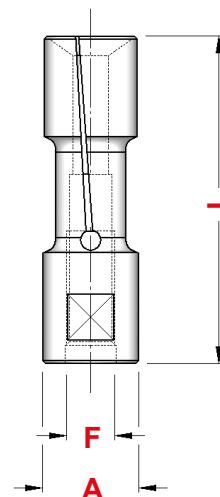


PINZE per CARICATORI CUCCHI

CLAMPING SLEEVES FOR CUCCHI BAR-FEEDERS

Art.	A	L	∅ min	∅ max	F destro
0600	10,0	50	2	8,5	M 6 x 0,75 DX
0601	12,0	52	2	10,5	M 7 x 0,75 DX
0925	14,0	52	2	12,5	M 8 x 1 DX
0174	15,0	52	2	13,5	M 8 x 1 DX
0553	16,0	52	4	14,0	M 8 x 1 DX
0591	20,0	59	3	18,0	M 10 x 1 DX
	22,0	59	19	20,0	
0893	25,0	59	4	23,0	M 14 x 1 DX
1049	30,0	65	10	28,0	M 18 x 1,5 DX
0904	40,0	70	6	37,0	M 25 x 1,5 DX
	42,0	70	38	39,0	
0935	46,0	72	37	42,0	M 25 x 1,5 DX
0945	60,0	80	30	55,0	M 25 x 1,5 DX
0708	65,0	80	55	60,0	M 25 x 1,5 DX
	69,5	80	61	65,0	
	75,0	80	66	70,0	

Art.	A	L	∅ min	∅ max	F sinistro
0607	19,0	60	4	16,0	M 10 x 1 SX
	20,0	60	17	18,0	
0621	23,0	60	4	20,0	M 14 x 1 SX
	25,0	60	21	23,0	
0632	29,0	65	4	26,0	M 18 x 1,5 SX
0646	35,0	70	14	33,0	M 18 x 1,5 SX
0653	37,0	70	10	34,0	M 25 x 1,5 SX
	39,0	70	35	36,0	
	41,0	70	37	39,0	
0654	47,0	70	14	43,0	M 30 x 1,5 SX
	49,0	70	44	45,0	
0690	59,0	80	30	55,0	M 30 x 1,5 SX

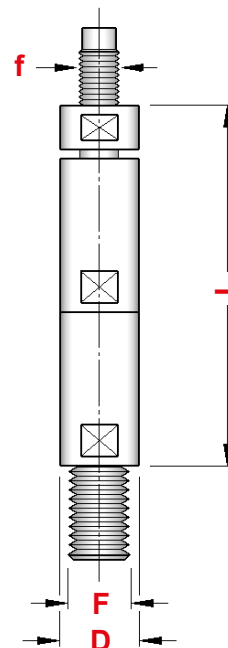


GRUPPI ROTANTI

ROTARY SETS

Art.	D	L	F destro	f destro
1539	10,0	107	M 7 x 1 DX	M 6 x 0,75 DX
1540	12,0	107	M 8 x 1,25 DX	M 7 x 0,75 DX
2199	14,0	107	M 10 x 1,5 DX	M 8 x 1 DX
2200	16,0	107	M 10 x 1,5 DX	M 8 x 1 DX
1541	19,0	118	M 12 x 1,75 DX	M 10 x 1 DX
1543	25,0	118	M 20 x 1,5 DX	M 14 x 1 DX
1544	30,0	123	M 24 x 1,5 DX	M 18 x 1,5 DX
1545	40,0	61	M 28 x 1,5 DX	M 25 x 1,5 DX

FORNIBILI ANCHE NELLA VERSIONE CON FILETTO SINISTRO
AVAILABLE ALSO IN LEFT THREAD VERSION

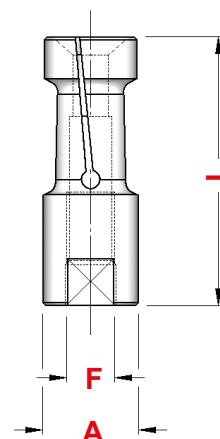




PINZE per CARICATORI IEMCA

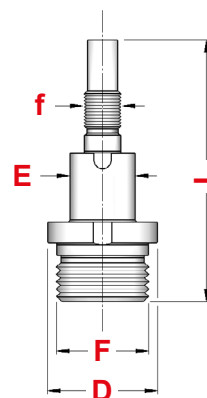
CLAMPING SLEEVES FOR IEMCA BAR-FEEDERS

Art.	A	L	∅ min	∅ max	F destro
0594	7,5	40	2	6,5	M 5 x 0,5 DX
0897	10,0	40	2	8,5	M 6 x 0,75 DX
0593	12,0	42	2	10,5	M 7 x 0,75 DX
0592	15,0	42	2	13,5	M 8 x 1 DX
0929	16,0	42	3	14,0	M 8 x 1 DX
0591	20,0	59	3	18,0	M 10 x 1 DX
	22,0	59	19	20,0	
0891	25,0	59	4	23,0	M 10 x 1 DX
0823	30,0	65	8	28,0	M 10 x 1 DX
	32,0	65	29	30,0	
0904	40,0	70	6	37,0	M 25 x 1,5 DX
	42,0	70	38	39,0	
0935	46,0	72	37	42,0	M 25 x 1,5 DX
0945	60,0	80	30	55,0	M 25 x 1,5 DX
0708	65,0	80	55	60,0	M 25 x 1,5 DX
	69,5	80	61	65,0	
	75,0	80	66	70,0	



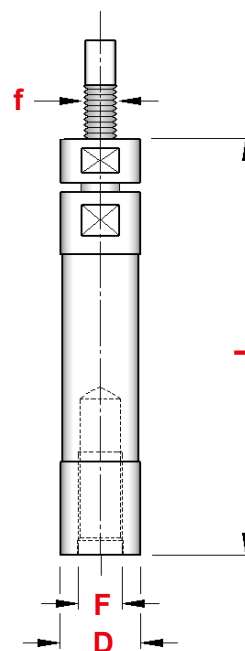
RIDUTTORE REDUCTION

Art.	D	L	F destro	f destro	E
1260	30,0	72	M 25 x 1,5 DX	M 10 x 1 DX	18



GRUPPI ROTANTI ROTARY SETS

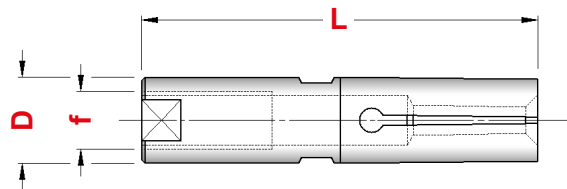
Art.	D	L	F destro	f destro
2621	7,5	126	M 6 x 0,75 DX	M 5 x 0,5 DX
2622	10,0	113	M 8 x 1 DX	M 6 x 0,75 DX
2623	12,0	116	M 10 x 1 DX	M 7 x 0,75 DX
2624	15,0	121	M 12 x 1,5 DX	M 8 x 1 DX
2625	20,0	133	M 14 x 1,5 DX	M 10 x 1 DX
2626	25,0	133	M 14 x 1,5 DX	M 10 x 1 DX
2627	30,0	135	M 14 x 1,5 DX	M 10 x 1 DX



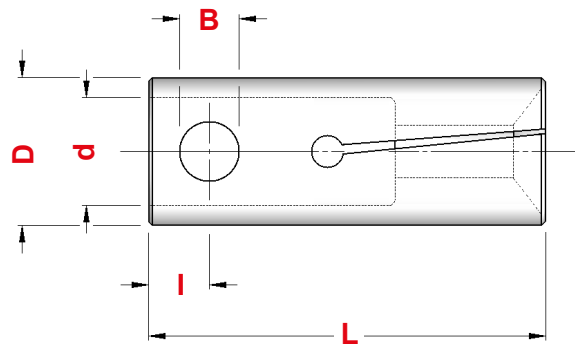
ALTRE PINZE per CARICATORE

OTHER CLAMPING SLEEVES FOR BAR-FEEDER

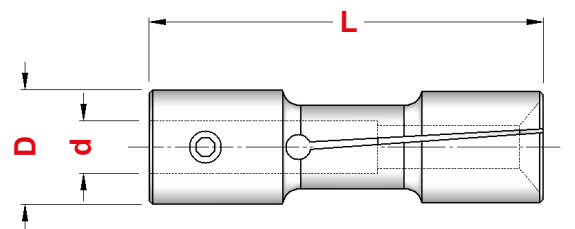
Tonda Round							
Art.	D	L	f	∅ min	∅ max	Einheits	
1308	5,0	37	M 4	1,5	4,0	200E	
1309	6,0	30	M 4	1,5	4,5	—	
1386	7,0	30	M 4	2,0	5,0	—	
1387	7,0	37	M 5	2,0	5,5	208E	
1388	10,0	30	M 5	2,0	8,0	—	
1415	12,0	30	M 6	3,0	9,5	—	
1446	12,5	30	M 6	9,5	10,5	—	
1470	16,5	35	M 8	4,0	14,5	—	



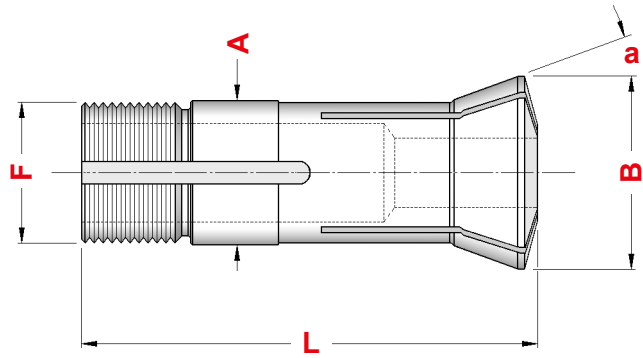
Tonda Round								
Art.	D	L	d	B	l	∅ min	∅ max	Einheits
1647	10	40	7 - H7	4,1	6	2,0	8,0	210E
1663	12	40	8 - H7	4,1	6	3,0	10,0	212E
1676	15	40	11 - H7	6,1	6	2,0	13,0	203E
1744	18	40	11 - H7	6,1	6	3,0	16,0	203E-18
1861	20	65	14 - H7	8,1	7	4,0	18,0	225E
1863	25	65	20 - H7	8,1	7	4,0	23,0	222E
1869	32	65	20 - H7	8,1	7	8,0	30,0	—



Tonda Round						
Art.	D	L	d	∅ min	∅ max	Einheits
1512	25	90	20 - H7	3,0	22,0	2292E
1549	32	90	20 - H7	4,0	30,0	2422E
1566	36	90	20 - H7	5,0	33,0	2490E



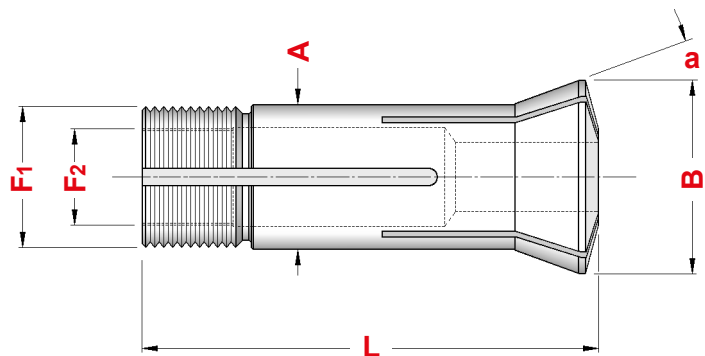
PINZE TIRATE CON FILETTO ESTERNO
DRAWBACK COLLETS WITH EXTERNAL THREAD






Tonda Round	Esagonale Hexagonal	Quadra Square	Art.	Art.	Art.	A	B	L	α	F	\varnothing max	W	Einheits
●	◻	◻	0958	—	—	6,0	10,5	31,0	20°	5,00 x 36 f" 55°	6,0	—	304E
●	◻	◻	0965	—	—	8,0	13,0	35,5	20°	6,82 x 0,62 55°	8,0	—	302E
●	◻	◻	4010	—	—	10,0	14,0	43,6	15°	9,83 x 0,83 45/5°	7,0	W10	314E
●	◻	◻	0948	—	—	12,0	16,0	46,0	15°	11,75 x 1,25 45/5°	10,0	W12	318E
●	◻	◻	0693	0694	0695	13,0	16,0	41,5	15°	M 12,5 x 0,75	10,0	—	—
●	◻	◻	4011	—	—	15,0	20,2	58,3	15°	14,75 x 1,25 45/5°	12,0	W15	3213E
●	◻	◻	0750	—	—	15,0	21,5	55,0	20°	M 13 x 1,00	13,0	—	324E
●	◻	◻	0800	—	—	20,0	26,3	73,0	15°	19,70 x 1,66 45/5°	20,0	W20	349E
●	◻	◻	0966	—	—	20,0	28,0	122,0	17°30'	19,70 x 2,00 45/5°	20,0	—	355E
●	◻	◻	0644	—	—	25,0	33,5	87,0	16°	M 23 x 1,50	22,0	—	—
●	◻	◻	0751	—	—	25,0	33,5	88,0	16°	M 23 x 1,00	22,0	—	363E
●	◻	◻	0674	—	—	25,0	33,7	97,6	15°	24,70 x 15 f" 45/5°	25,0	W25	364E
●	◻	◻	0834	0835	0836	27,0	30,0	57,5	12°	M 24 x 1,00	20,0	—	—
●	◻	◻	5522	5530	5580	31,75	37,3	87,0	10°03'	31,40 x 20 f" 60°	26,0	W 31,75	385E
●	◻	◻	0597	0598	0599	35,0	44,0	103,0	20°	M 32 x 1,50	26,0	—	—
●	◻	◻	0733	0734	0735	40,0	55,0	117,0	20°	35,00 x 1,55 45/5°	30,0	—	—

PINZE TIRATE CON FILETTO ESTERNO ED INTERNO
DRAWBACK COLLETS WITH EXTERNAL AND INTERNAL THREAD

5 C

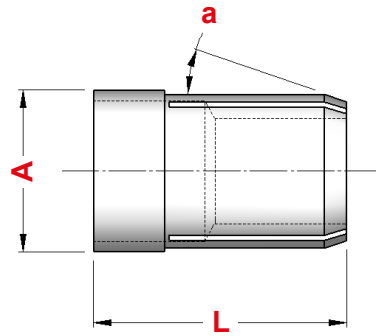


Tonda Round	Art.	A	B	L	α	F1	F2	\varnothing max	Tipo
●	5523	31,75	37,3	87,0	10°03'	31,4 x 20 f" 60°	26,59 x 24 f"	26,0	5C

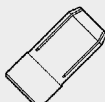
Tonda <i>Round</i>	Esagonale <i>Hexagonal</i>	Quadra <i>Square</i>
		
Art.	Art.	Art.
0957	0832	0833
0950	0951	0952

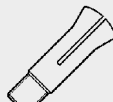
PINZE PER ROTANTI
COLLETS FOR ROTARIES

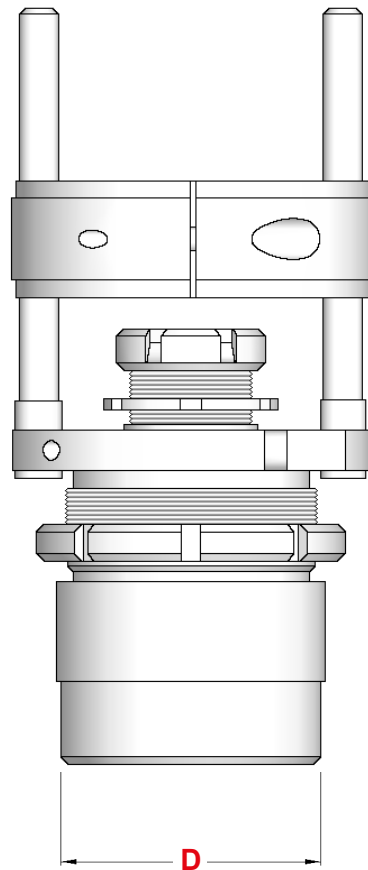
A	L	α
16	35	19°
32	45	19°




APPARECCHI GIREVOLI
SWIVEL DEVICES

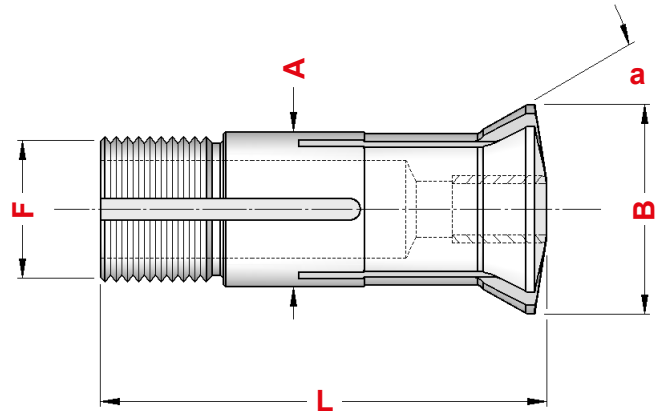
STROHM			
Art.	D	Tipo	
0061	40	STROHM 125	0957
0062	68	STROHM 205	0950
0063	68	STROHM 255	0950

BECHLER			
Art.	D	Tipo	
0065	34	BECHLER 10	0693
0066	56	BECHLER 20	0834




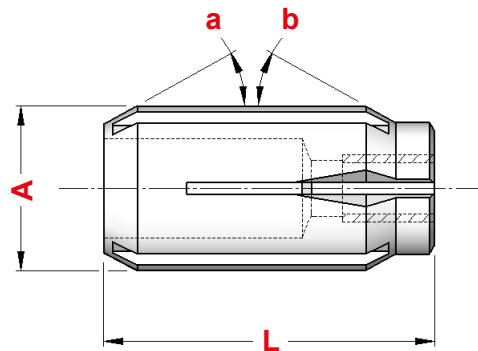
BUSSOLE GUIDA BARRA REGISTRABILI IN METALLO DURO - TIPO TIRATO
EXTERNAL THREAD ADJUSTABLE GUIDE BUSHINGS WITH SOLID CARBIDE

Tonda Round						
	Art.	A	L	B	α	F
	0698	9	44,0	12,5	16°	M 8 x 0,75
	0655	12	50,0	16,0	16°	M 10 x 0,75
	0686	12	50,0	15,0	30°	M 12 x 1,00
	0909	16	59,0	20,5	16°	M 14 x 1,00
	0687	18	60,0	21,8	30°	M 16 x 1,00
	0688	20	55,0	25,0	30°	M 20 x 1,00
	0799	22	68,0	29,0	16°	M 19 x 1,00
	0926	22	68,0	29,0	16°	M 22 x 1,00
	4040	24	61,0	30,0	30°	M 24 x 1,00
	0602	28	81,0	38,0	30°	M 25 x 1,00
	0699	28	82,0	34,0	16°	M 25 x 1,00
	0803	32	71,0	40,0	30°	M 32 x 1,00
	0812	34	87,5	41,0	10°	M 34 x 1,00
	0689	40	71,0	48,0	30°	M 40 x 1,00
	0930	42	82,0	49,0	16°	M 40 x 1,00




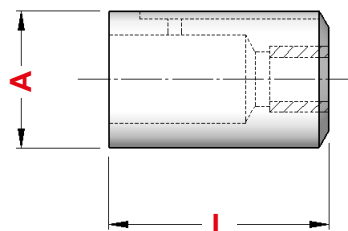
BUSSOLE GUIDA BARRA REGISTRABILI IN METALLO DURO - TIPO SPINTO
PUSH ADJUSTABLE GUIDE BUSHINGS WITH SOLID CARBIDE

Tonda Round					
	Art.	A	L	α	b
	0691	16	40	30°	30°
	0692	20	40	30°	30°
	0887	30	60	29°	29°
	0888	34	60	29°	29°



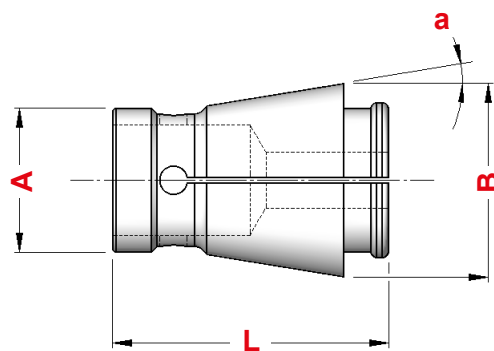
BUSSOLE GUIDA BARRA IN METALLO DURO - TIPO FISSO
FIXED GUIDE BUSHINGS WITH SOLID CARBIDE

Tonda Round			
	Art.	A	L
	4028	13	30
	0677	15	30
	0678	16	30
	0679	20	30
	0680	25	35
	0682	32	45

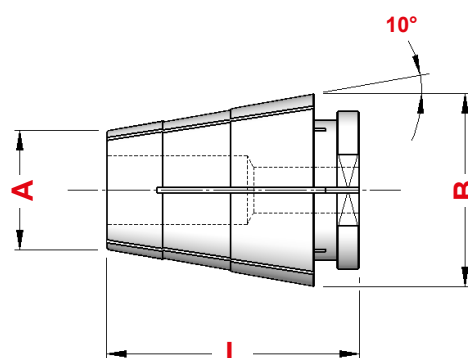


ALTRE PINZE PORTA UTENSILI OTHER TOOL COLLETS

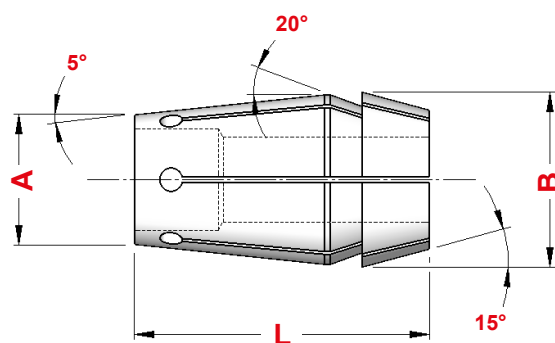
Art.	A	B	L	α	CAPACITA'	Einheits
0771	18	27,0	45	9° 15'	2,0 ÷ 15	413E
0772	26	35,0	50	9° 15'	3,0 ÷ 20	443E
0969	32	40,5	52	10°	4,0 ÷ 26	448E
0773	36	45,0	60	9° 15'	4,0 ÷ 30	—



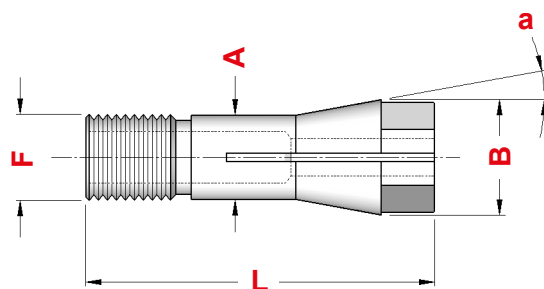
Art.	A	B	L	CAPACITA'	Einheits
0963	10,0	15,5	20,0	2,0 ÷ 6	402E
0486	10,0	17,5	24,0	2,0 ÷ 8	405E
0438	11,0	19,0	30,0	2,0 ÷ 9	—
0971	11,0	20,0	31,0	2,0 ÷ 10	—
0527	13,0	22,0	36,0	2,0 ÷ 12	—
0321	14,0	22,5	32,0	2,0 ÷ 12	—
0439	13,5	24,0	36,0	3,0 ÷ 12	408E
1151	21,0	34,0	45,0	3,0 ÷ 20	441E



Art.	A	B	L	CAPACITA'
0720	23,5	30,0	52,5	2,0 ÷ 20



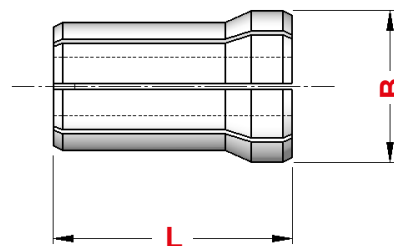
Art.	A	B	L	α	F	\varnothing max	Einheits
0890	6	9	28,5	10°	M 6 x 0,75	5,00	600E
0947	8	11	33,0	10°	M 8 x 0,75	6,00	601E
0537	10	14	34,0	15°	M 10 x 0,75	8,00	6314E
0898	16	21	52,0	15°	M 16 x 1,00	12,00	—



PINZE PORTA UTENSILI - TIPO "DA"
TOOL COLLETS - "DA" TYPE

DA

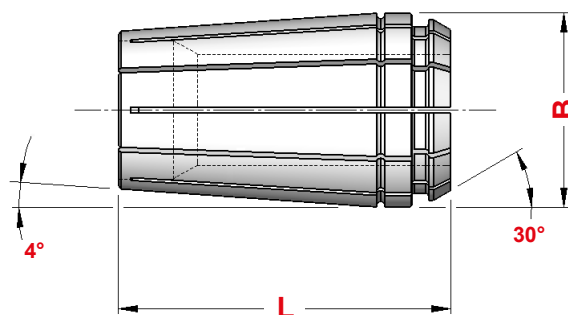
Art.	Tipo	B	L	CAPACITA'	ESPANSIONE	Einheits
5118	DA.300	9,5	25,4	1 ÷ 6,5	0,5	416E
5119	DA.200	13,6	30,3	1 ÷ 10,0	0,5	417E
5120	DA.100	19,4	36,7	1 ÷ 15,0	0,5	418E
5121	DA.180	26,2	41,6	1 ÷ 20,0	0,5	419E
5129	DA.400	36,9	51,0	6 ÷ 25,5	0,5	465E



PINZE PORTAUTENSILI - TIPO "TG"
TOOL COLLETS - "TG" TYPE

TG

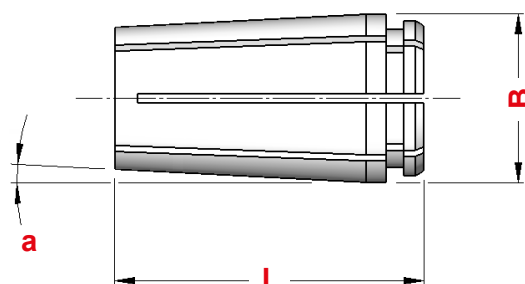
Art.	Tipo	B	L	CAPACITA'	ESPANSIONE	Einheits
1250	TG. 75	27,0	46,9	2,5 ÷ 20	0,5	420E
1251	TG. 100	35,0	60,4	3 ÷ 26	0,5	464E
1252	TG. 150	50,8	76,2	12 ÷ 40	0,5	466E



PINZE PORTA UTENSILI - TIPO BAKUER
TOOL COLLETS - BAKUER TYPE

BAKUER

Art.	Tipo	B	L	α	CAPACITA'	ESPANSIONE
0896	M 2 - 6	11,1	23,0	4°	2,0 ÷ 6,0	0,5
0895	M 3 - 10	15,6	35,0	4°	3,0 ÷ 10,0	0,5
0736	P 4 - 16	25,6	48,0	3°	4,0 ÷ 16,0	0,5
0737	P 6 - 20	29,6	54,0	3°	6,0 ÷ 20,0	0,5
0738	P 8 - 25	35,7	60,0	3°	8,0 ÷ 25,0	0,1
0774	P 10 - 32	44,7	67,0	3°	10,0 ÷ 32,0	0,1

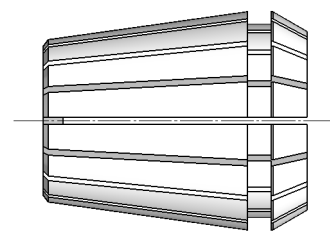


PINZE ER - DIN 6499/B
DIN 6499/B - ER COLLETS

ER

**Potete trovare il programma ER
da pagina 8 a pagina 25.**

*You can find ER program
from page 8 to page 25.*

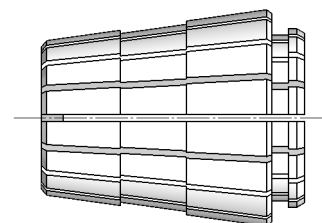


PINZE TS (DIN 6499 COMPATIBILE)
TS COLLETS (COMPATIBLE DIN 6499)

TS

**Potete trovare il programma TS
da pagina 26 a pagina 27.**

*You can find TS program
from page 26 to page 27.*

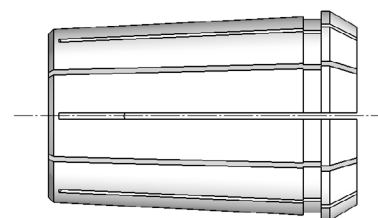


PINZE EOC - DIN 6388
DIN 6388 - EOC COLLETS

EOC

**Potete trovare il programma EOC
da pagina 28 a pagina 30.**

*You can find EOC program
from page 28 to page 30.*

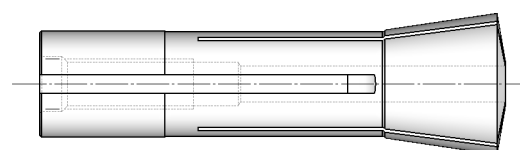


PINZE BRIDGEPORT R8
BRIDGEPORT R8 COLLETS WITH INSIDE THREAD

R 8

**Potete trovare il programma R8
da pagina 70 a pagina 71.**

*You can find R8 program
from page 70 to page 71.*



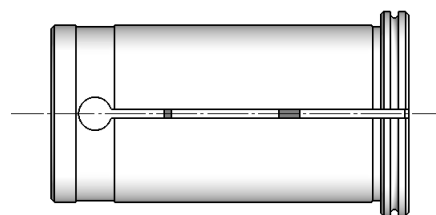
PINZE CILINDRICHE PER MANDRINI A FORTE SERRAGGIO

CYLINDRICAL COLLETS FOR HIGH GRIP DEVICES

PC

Pinze cilindriche di riduzione per Mandrini a Forte Serraggio a pagina 31.

Reduction cylindrical collets for High Grip Chucks on page 31.



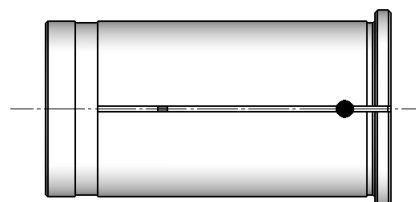
PINZE CILINDRICHE A TENUTA STAGNA PER MANDRINI IDRAULICI

WATERTIGHT CYLINDRICAL COLLETS FOR HYDRAULIC CHUCKS

PH

Pinze cilindriche a tenuta stagna per Mandrini Idraulici a pagina 31.

Water cylindrical collets for Hydraulic Chucks on page 31.



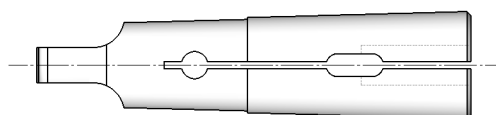
PINZE CONO MORSE PER MASCHI E PUNTE

MT COLLETS FOR MILLING CUTTERS AND TWIST DRILLS

DIN
6328 - 6329

Pinze a Cono Morse per maschi e punte a pagina 55.

Morse Taper collets for milling cutters and twist drills on page 55.



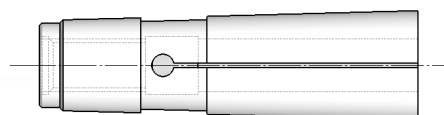
PINZE CONO MORSE CON FILETTO

THREADED MT COLLETS

UNI
4702

Pinze a Cono Morse con filetto UNI 4702 a pagina 55.

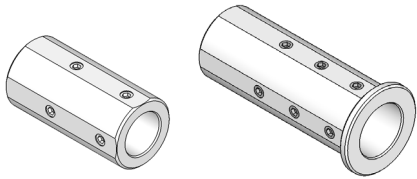
Morse Taper collets with thread UNI 4702 on page 55.



INDICE DELLE BUSSOLE DI RIDUZIONE

INDEX OF REDUCTION SLEEVES

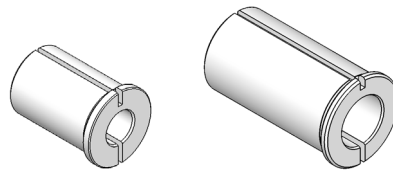
UNIVERSALI UNIVERSAL



Programma
completo
da
pagina

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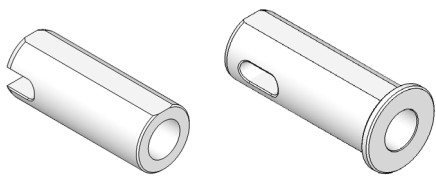
TIPO RZ RZ TYPE



Programma
completo
a
pagina

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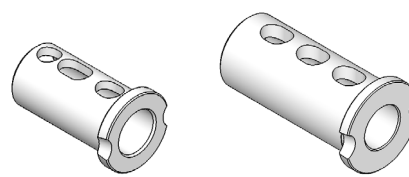
A CONO MORSE MORSE TAPER



Programma
completo
da
pagina

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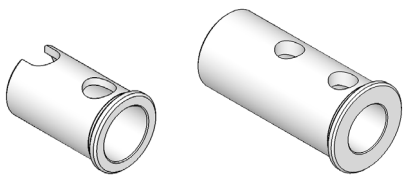
RIDUZIONI PER PORTABARENI REDUCTIONS FOR BORING BAR HOLDERS



Programma
completo
da
pagina

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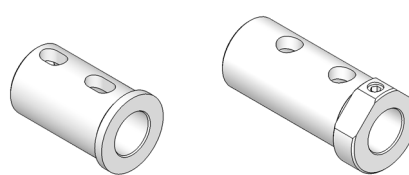
TIPO BIGLIA etc. BIGLIA TYPE etc.



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completo
da
pagina

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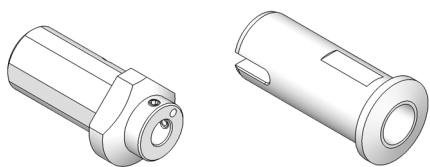
TIPO DAEWOO etc. DAEWOO TYPE etc.



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completo
da
pagina

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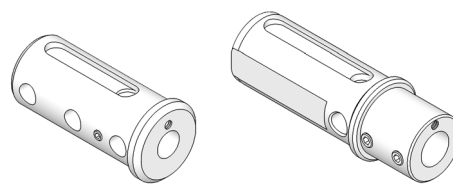
TIPO MAZAK etc. MAZAK TYPE etc.



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completo
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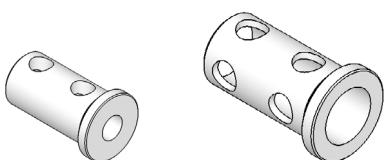
TIPO MORI SEIKI etc. MORI SEIKI TYPE etc.



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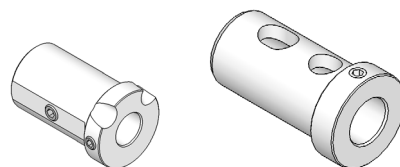
TIPO NAKAMURA TOME etc. NAKAMURA TOME TYPE etc.



Programma
completo
a
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TIPO OKUMA etc. OKUMA TYPE etc.



Programma
completo
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pagina

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E 2.1
E 2.2

BUSSOLE DI RIDUZIONE UNIVERSALI SENZA BATTUTA
UNIVERSAL REDUCTION SLEEVES

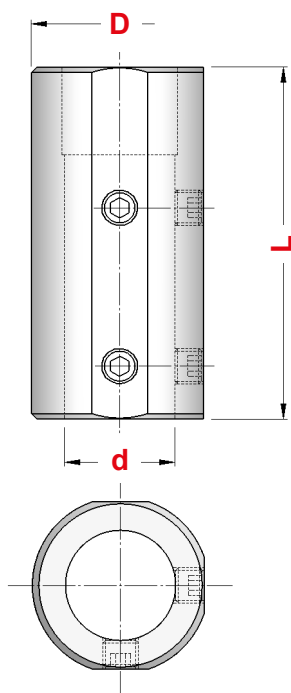
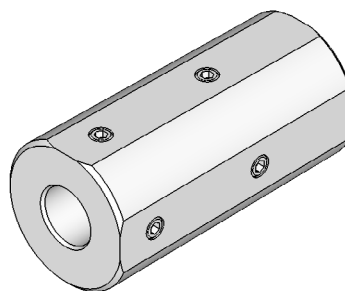


Figura 1

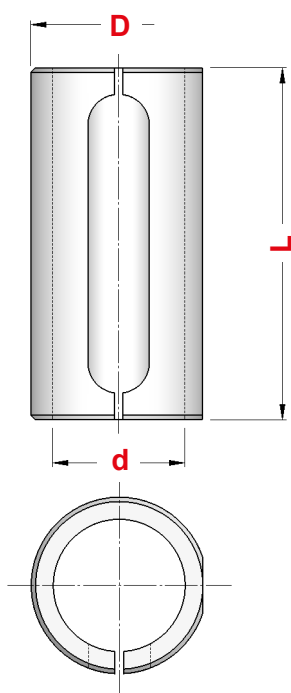


Figura 2



TIPO	Art.	D	d	L	Fig.	
E 2.1 - 20 x 6	2770	20	6	60	1	0365
E 2.1 - 20 x 8	2778	20	8	60	1	0368
E 2.1 - 20 x 10	2779	20	10	60	1	0367
E 2.1 - 20 x 12	2780	20	12	60	1	0367
E 2.1 - 25 x 6	2837	25	6	60	1	0365
E 2.1 - 25 x 8	4300	25	8	60	1	0020
E 2.1 - 25 x 10	4301	25	10	60	1	0020
E 2.1 - 25 x 12	4302	25	12	60	1	0368
E 2.1 - 25 x 14	2771	25	14	60	1	0367
E 2.2 - 25 x 16	4318	25	16	60	2	—
E 2.1 - 32 x 6	2838	32	6	70	1	0366
E 2.1 - 32 x 8	4303	32	8	70	1	4970
E 2.1 - 32 x 10	4304	32	10	70	1	4970
E 2.1 - 32 x 12	4305	32	12	70	1	0370
E 2.1 - 32 x 14	2839	32	14	70	1	0020
E 2.1 - 32 x 16	4306	32	16	70	1	0020
E 2.1 - 32 x 18	2841	32	18	70	1	0020
E 2.1 - 32 x 20	4307	32	20	70	1	0372
E 2.2 - 32 x 25	4319	32	25	70	2	—
E 2.1 - 40 x 6	7059	40	6	80	1	0366
E 2.1 - 40 x 8	4308	40	8	80	1	0181
E 2.1 - 40 x 10	4309	40	10	80	1	0371
E 2.1 - 40 x 12	4310	40	12	80	1	0371
E 2.1 - 40 x 14	2845	40	14	80	1	0371
E 2.1 - 40 x 16	4311	40	16	80	1	4970
E 2.1 - 40 x 18	2847	40	18	80	1	4970
E 2.1 - 40 x 20	4312	40	20	80	1	0021
E 2.1 - 40 x 25	4313	40	25	80	1	0372
E 2.2 - 40 x 32	4320	40	32	80	2	—
E 2.1 - 50 x 12	7061	50	12	90	1	0181
E 2.1 - 50 x 14	7062	50	14	90	1	0181
E 2.1 - 50 x 16	4314	50	16	90	1	0375
E 2.1 - 50 x 18	2792	50	18	90	1	0375
E 2.1 - 50 x 20	4315	50	20	90	1	0375
E 2.1 - 50 x 25	4316	50	25	90	1	4971
E 2.1 - 50 x 32	4317	50	32	90	1	0021
E 2.2 - 50 x 40	4321	50	40	90	2	—
E 2.1 - 60 x 16	8886	60	16	160	1	0183
E 2.1 - 60 x 20	8887	60	20	160	1	0183
E 2.1 - 60 x 25	8888	60	25	160	1	0377
E 2.1 - 60 x 32	8889	60	32	160	1	4972
E 2.1 - 60 x 40	8890	60	40	160	1	0385

EG.1
EG.2

BUSSOLE DI RIDUZIONE UNIVERSALI CON BATTUTA
HEADED REDUCTION SLEEVES

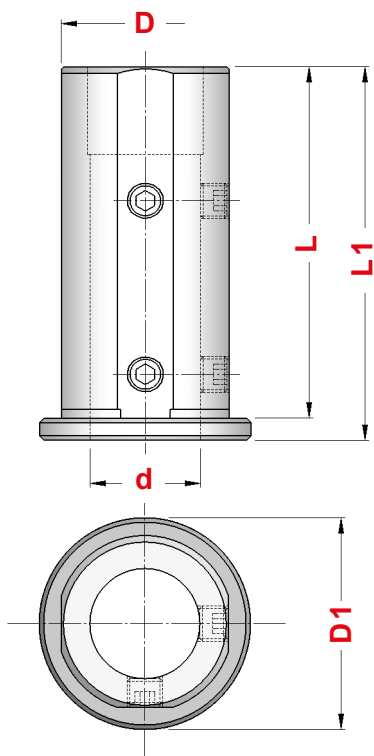
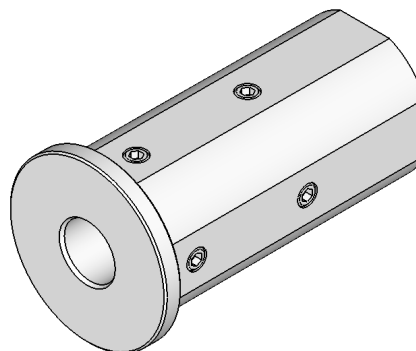


Figura 1

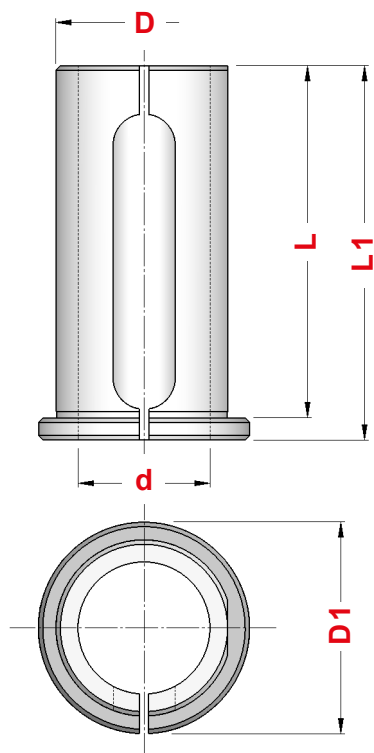



Figura 2

TIPO	Art.	D	d	L	L1	D1	Fig.	
EG.1 - 20 x 6	5964	20	6	50	55	28	1	0365
EG.1 - 20 x 8	5965	20	8	50	55	28	1	0368
EG.1 - 20 x 10	5966	20	10	50	55	28	1	0367
EG.1 - 20 x 12	5967	20	12	50	55	28	1	0367
EG.2 - 20 x 14	5994	20	14	50	55	28	2	—
EG.1 - 25 x 6	5968	25	6	60	65	33	1	0365
EG.1 - 25 x 8	5969	25	8	60	65	33	1	0020
EG.1 - 25 x 10	5970	25	10	60	65	33	1	0020
EG.1 - 25 x 12	5971	25	12	60	65	33	1	0368
EG.1 - 25 x 14	5972	25	14	60	65	33	1	0367
EG.2 - 25 x 16	5995	25	16	60	65	33	2	—
EG.2 - 25 x 18	5996	25	18	60	65	33	2	—
EG.1 - 32 x 6	5973	32	6	70	75	40	1	0366
EG.1 - 32 x 8	5974	32	8	70	75	40	1	4970
EG.1 - 32 x 10	5975	32	10	70	75	40	1	4970
EG.1 - 32 x 12	5976	32	12	70	75	40	1	0370
EG.1 - 32 x 14	5977	32	14	70	75	40	1	0020
EG.1 - 32 x 16	5978	32	16	70	75	40	1	0020
EG.1 - 32 x 18	5979	32	18	70	75	40	1	0020
EG.1 - 32 x 20	5980	32	20	70	75	40	1	0372
EG.2 - 32 x 25	5997	32	25	70	75	40	2	—
EG.1 - 40 x 6	5960	40	6	80	85	48	1	0366
EG.1 - 40 x 8	5981	40	8	80	85	48	1	0181
EG.1 - 40 x 10	5982	40	10	80	85	48	1	0371
EG.1 - 40 x 12	5983	40	12	80	85	48	1	0371
EG.1 - 40 x 14	5984	40	14	80	85	48	1	0371
EG.1 - 40 x 16	5985	40	16	80	85	48	1	4970
EG.1 - 40 x 18	5986	40	18	80	85	48	1	4970
EG.1 - 40 x 20	5987	40	20	80	85	48	1	0021
EG.1 - 40 x 25	5988	40	25	80	85	48	1	0372
EG.2 - 40 x 32	5998	40	32	80	85	48	2	—
EG.1 - 50 x 16	5989	50	16	90	95	58	1	0375
EG.1 - 50 x 18	5990	50	18	90	95	58	1	0375
EG.1 - 50 x 20	5991	50	20	90	95	58	1	0375
EG.1 - 50 x 25	5992	50	25	90	95	58	1	4971
EG.1 - 50 x 32	5993	50	32	90	95	58	1	0021
EG.2 - 50 x 40	5999	50	40	90	95	58	2	—

**EG.3
EG.4**

BUSSOLE DI RIDUZIONE UNIVERSALI LUNGHE CON BATTUTA
EXTENDED HEADED REDUCTION SLEEVES

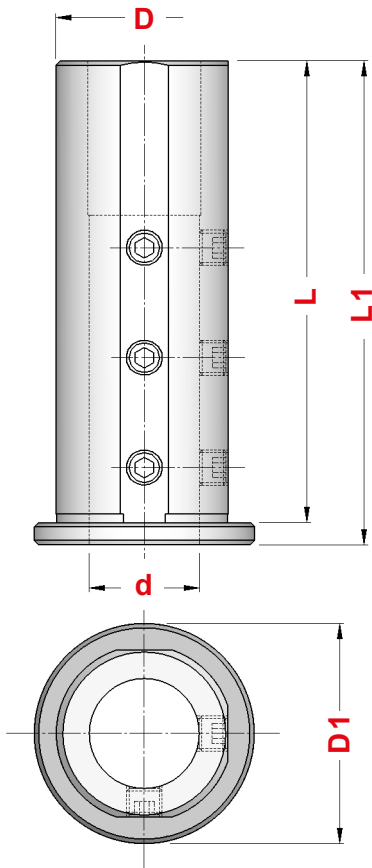


Figura 1

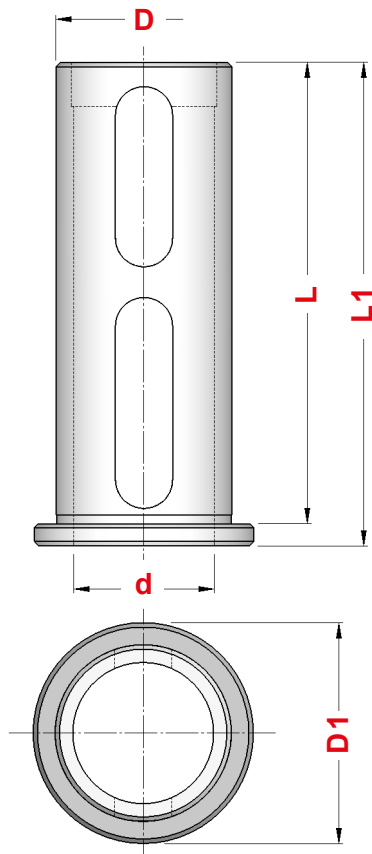
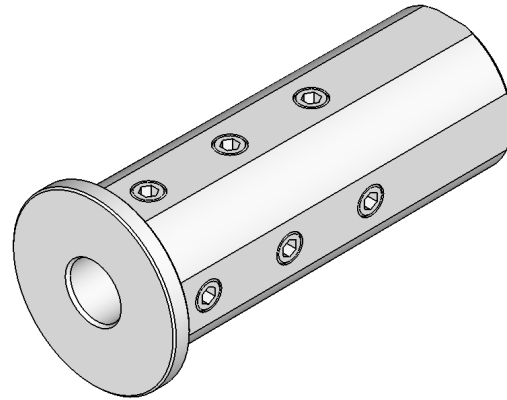

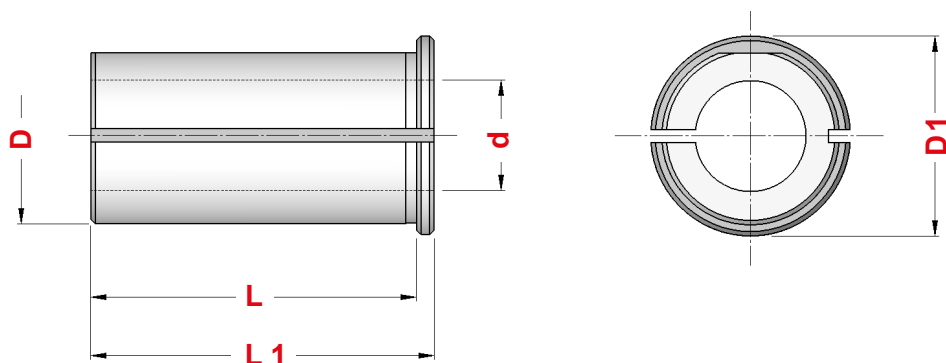


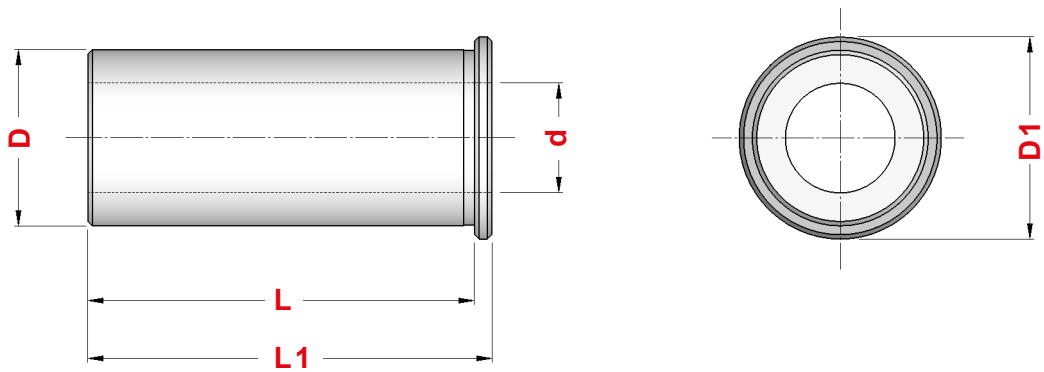
Figura 2



TIPO	Art.	D	d	L	L1	D1	Fig.	
EG.3-32 x 6	5315	32	6	85	90	40	1	0366
EG.3-32 x 8	5316	32	8	85	90	40	1	4970
EG.3-32 x 10	5317	32	10	85	90	40	1	0370
EG.3-32 x 12	5318	32	12	85	90	40	1	0370
EG.3-32 x 14	7042	32	14	85	90	40	1	0370
EG.3-32 x 16	5319	32	16	85	90	40	1	0020
EG.3-32 x 18	7043	32	18	85	90	40	1	0020
EG.3-32 x 20	5320	32	20	85	90	40	1	0367
EG.4-32 x 25	5333	32	25	85	90	40	2	—
EG.3-40 x 6	5321	40	6	105	110	50	1	0366
EG.3-40 x 8	5322	40	8	105	110	50	1	0181
EG.3-40 x 10	5323	40	10	105	110	50	1	0371
EG.3-40 x 12	5324	40	12	105	110	50	1	0371
EG.3-40 x 14	5918	40	14	105	110	50	1	0371
EG.3-40 x 16	5325	40	16	105	110	50	1	4971
EG.3-40 x 18	5919	40	18	105	110	50	1	4971
EG.3-40 x 20	5326	40	20	105	110	50	1	0021
EG.3-40 x 25	5327	40	25	105	110	50	1	0372
EG.4-40 x 32	5334	40	32	105	110	50	2	—
EG.3-50 x 12	5328	50	12	125	130	60	1	0382
EG.3-50 x 14	7044	50	14	125	130	60	1	0382
EG.3-50 x 16	5329	50	16	125	130	60	1	0375
EG.3-50 x 18	7045	50	18	125	130	60	1	0375
EG.3-50 x 20	5330	50	20	125	130	60	1	0375
EG.3-50 x 25	5331	50	25	125	130	60	1	4971
EG.3-50 x 32	5332	50	32	125	130	60	1	0021
EG.4-50 x 40	5335	50	40	125	130	60	2	—
EG.3-60 x 20	8840	60	20	135	140	70	1	0186
EG.3-60 x 25	8841	60	25	135	140	70	1	0377
EG.3-60 x 32	8842	60	32	135	140	70	1	4972
EG.3-60 x 40	8843	60	40	135	140	70	1	0385
EG.4-60 x 50	8844	60	50	135	140	70	2	—
EG.3-80 x 25	8845	80	25	145	150	90	1	4973
EG.3-80 x 32	8846	80	32	145	150	90	1	4973
EG.3-80 x 40	8847	80	40	145	150	90	1	4973
EG.3-80 x 50	8848	80	50	145	150	90	1	4973
EG.4-80 x 60	8849	80	60	145	150	90	2	—



TIPO	Art.	D	d	L	L1	D1
RZ - 20 x 8	5920	20	8	26	30	25
RZ - 20 x 10	5921	20	10	26	30	25
RZ - 20 x 12	5922	20	12	26	30	25
RZ - 20 x 14	5923	20	14	26	30	25
RZ - 20 x 16	5924	20	16	26	30	25
RZ - 25 x 8	5925	25	8	36	40	30
RZ - 25 x 10	5926	25	10	36	40	30
RZ - 25 x 12	5927	25	12	36	40	30
RZ - 25 x 14	5928	25	14	36	40	30
RZ - 25 x 16	5929	25	16	36	40	30
RZ - 25 x 18	5930	25	18	36	40	30
RZ - 25 x 20	5931	25	20	36	40	30
RZ - 32 x 8	5932	32	8	46	50	37
RZ - 32 x 10	5933	32	10	46	50	37
RZ - 32 x 12	5934	32	12	46	50	37
RZ - 32 x 14	5935	32	14	46	50	37
RZ - 32 x 16	5936	32	16	46	50	37
RZ - 32 x 18	5937	32	18	46	50	37
RZ - 32 x 20	5938	32	20	46	50	37
RZ - 32 x 25	5939	32	25	46	50	37
RZ - 40 x 10	5941	40	10	74	78	45
RZ - 40 x 12	5942	40	12	74	78	45
RZ - 40 x 14	5943	40	14	74	78	45
RZ - 40 x 16	5944	40	16	74	78	45
RZ - 40 x 18	5945	40	18	74	78	45
RZ - 40 x 20	5946	40	20	74	78	45
RZ - 40 x 25	5947	40	25	74	78	45
RZ - 40 x 32	5948	40	32	74	78	45
RZ - 50 x 20	5951	50	20	84	88	55
RZ - 50 x 25	5952	50	25	84	88	55
RZ - 50 x 32	5953	50	32	84	88	55
RZ - 50 x 40	5954	50	40	84	88	55
RZ - 60 x 25	5956	60	25	88	92	65
RZ - 60 x 32	5957	60	32	88	92	65
RZ - 60 x 40	5958	60	40	88	92	65
RZ - 60 x 50	5959	60	50	88	92	65



TIPO	Art.	D	d	L	L1	D1
E2.LAV - 25 x 8	1509	25	8	70	74	32
E2.LAV - 25 x 10	1511	25	10	70	74	32
E2.LAV - 25 x 12	1513	25	12	70	74	32
E2.LAV - 25 x 14	1516	25	14	70	74	32
E2.LAV - 25 x 16	1517	25	16	70	74	32
E2.LAV - 25 x 18	1518	25	18	70	74	32
E2.LAV - 25 x 20	1519	25	20	70	74	32
E2.LAV - 32 x 8	2283	32	8	88	92	36
E2.LAV - 32 x 10	2284	32	10	88	92	36
E2.LAV - 32 x 12	2286	32	12	88	92	36
E2.LAV - 32 x 14	2287	32	14	88	92	36
E2.LAV - 32 x 16	2289	32	16	88	92	36
E2.LAV - 32 x 18	2290	32	18	88	92	36
E2.LAV - 32 x 20	2291	32	20	88	92	36
E2.LAV - 32 x 25	2293	32	25	88	92	36
E2.LAV - 40 x 10	2439	40	10	88	92	46
E2.LAV - 40 x 12	2440	40	12	88	92	46
E2.LAV - 40 x 14	2441	40	14	88	92	46
E2.LAV - 40 x 16	2442	40	16	88	92	46
E2.LAV - 40 x 18	2445	40	18	88	92	46
E2.LAV - 40 x 20	2446	40	20	88	92	46
E2.LAV - 40 x 25	2460	40	25	88	92	46
E2.LAV - 40 x 32	2466	40	32	88	92	46

Figura 1

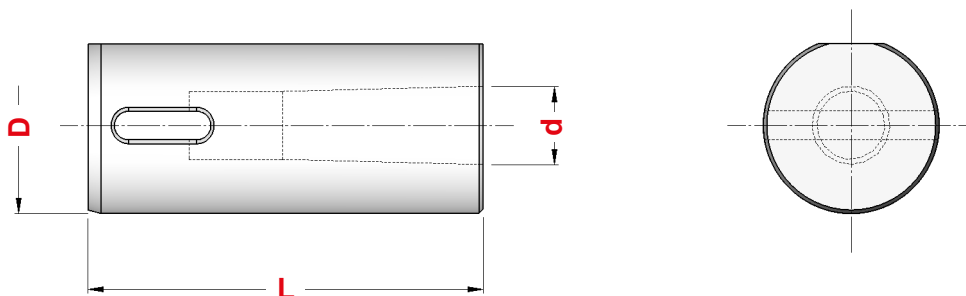
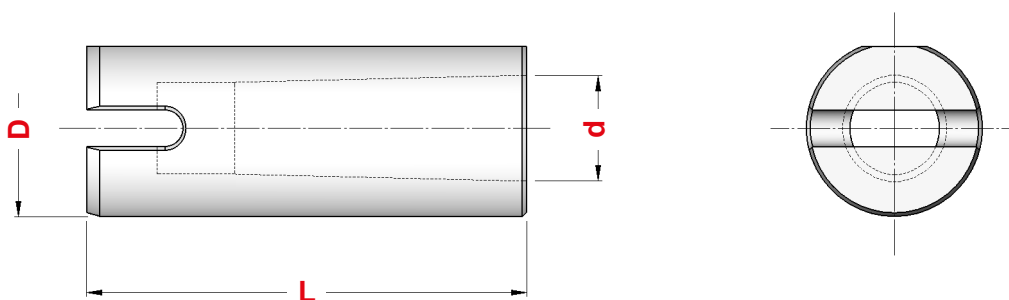


Figura 2



TIPO	Art.	D	CM	d	L	Fig.
E 2.3 - 20 x 1	5217	20	1	12,065	60	2
E 2.3 - 20 x 2	5218	20	2	17,780	90	1
E 2.3 - 25 x 1	5219	25	1	12,065	60	2
E 2.3 - 25 x 2	5220	25	2	17,780	90	1
E 2.3 - 32 x 1	5221	32	1	12,065	60	2
E 2.3 - 32 x 2	4322	32	2	17,780	90	1
E 2.3 - 32 x 3	4323	32	3	23,825	100	2
E 2.3 - 40 x 2	4324	40	2	17,780	90	1
E 2.3 - 40 x 3	4325	40	3	23,825	100	2
E 2.3 - 40 x 4	2857	40	4	31,267	120	2
E 2.3 - 50 x 2	4326	50	2	17,780	90	1
E 2.3 - 50 x 3	4327	50	3	23,825	100	2
E 2.3 - 50 x 4	4328	50	4	31,267	120	2
E 2.3 - 60 x 3	8891	60	3	23,825	160	1
E 2.3 - 60 x 4	8892	60	4	31,267	160	1
E 2.3 - 60 x 5	8893	60	5	44,399	160	2

Figura 1

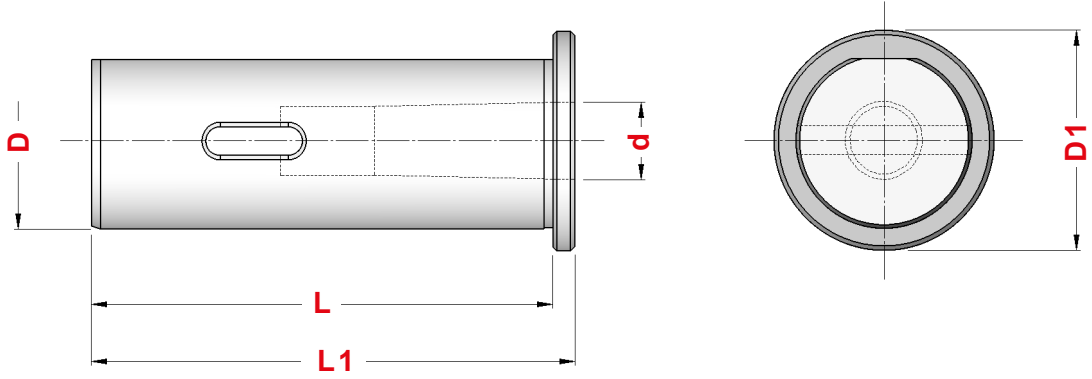
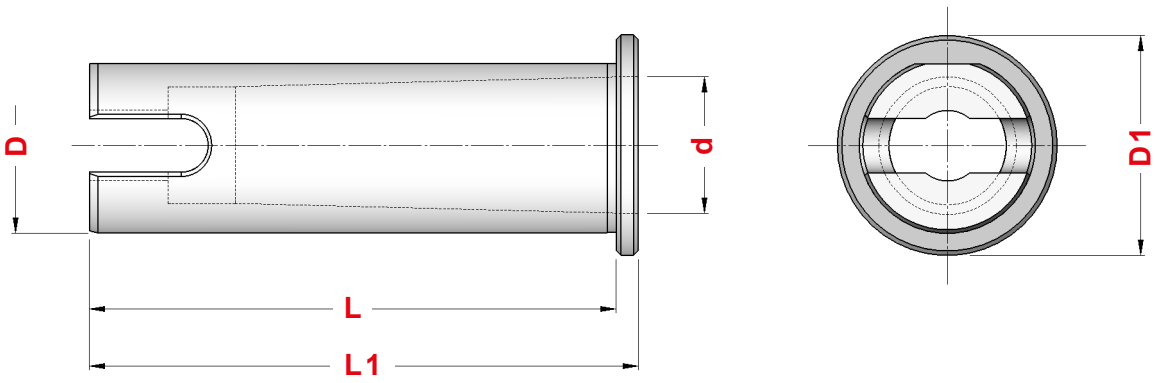
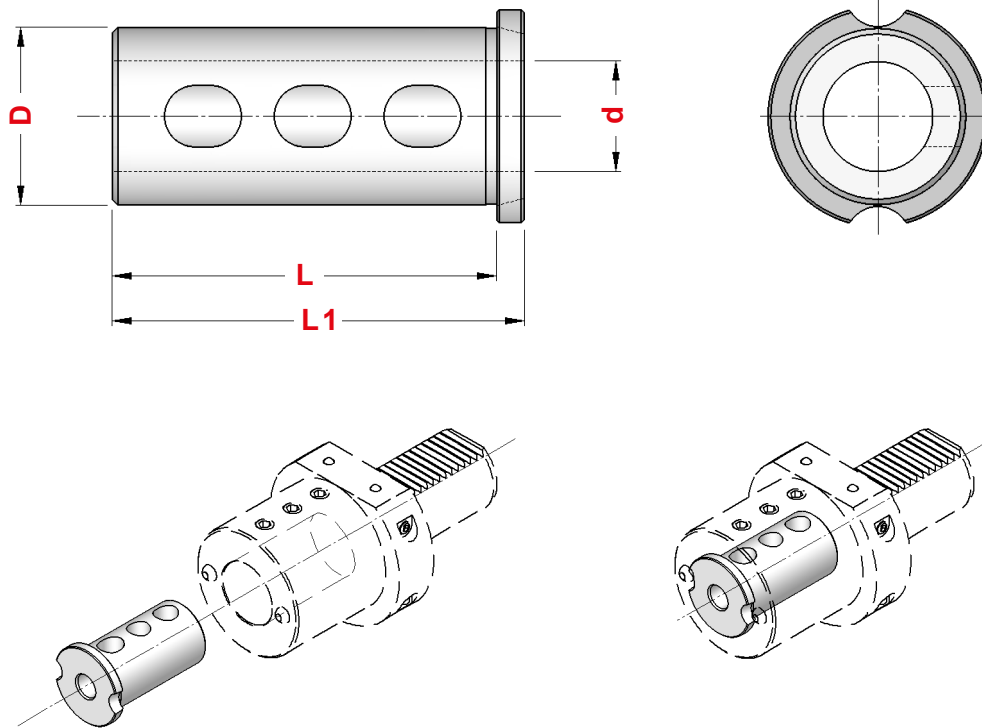


Figura 2

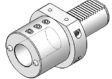
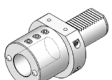
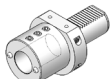


TIPO	Art.	D	CM	d	L	L1	D1	Fig.
E2.G6 - 20 x 1	1722	20	1	12,065	65	70	28	2
E2.G6 - 20 x 2	1723	20	2	17,780	70	75	28	2
E2.G6 - 25 x 1	1786	25	1	12,065	70	75	33	2
E2.G6 - 25 x 2	1787	25	2	17,780	70	75	33	2
E2.G6 - 25 x 3	1788	25	3	23,825	79	98	33	2
E2.G6 - 32 x 1	1376	32	1	12,065	85	90	40	1
E2.G6 - 32 x 2	1377	32	2	17,780	85	90	40	1
E2.G6 - 32 x 3	1378	32	3	23,825	95	100	40	2
E2.G6 - 40 x 2	3245	40	2	17,780	105	110	50	1
E2.G6 - 40 x 3	1232	40	3	23,825	105	110	50	1
E2.G6 - 40 x 4	5603	40	4	31,267	120	125	50	2
E2.G6 - 50 x 2	5961	50	2	17,780	125	130	63	1
E2.G6 - 50 x 3	5962	50	3	23,825	125	130	63	1
E2.G6 - 50 x 4	5963	50	4	31,267	125	130	63	1
E2.G6 - 60 x 3	8894	60	3	23,825	130	140	70	1
E2.G6 - 60 x 4	8895	60	4	31,267	130	140	70	1
E2.G6 - 60 x 5	8896	60	5	44,399	145	155	70	2



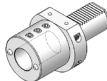
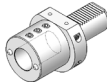
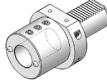
Bussole di riduzione per Portabareni tipo "E2" con attacco VDI 20 - VDI 25 - VDI 30

Headed reduction sleeves for Boring bar Holders "E2" type with shanks VDI 20 - VDI 25 - VDI 30

TIPO	Art.	D	d	L	L1	TIPO E2
E2 .R1 - 25 x 8	5436	25	8	47	52	 E2 - 20x25 E2 - 25x25 E2 - 30x25
E2 .R1 - 25 x 10	5437	25	10	47	52	
E2 .R1 - 25 x 12	5438	25	12	47	52	
E2 .R1 - 25 x 14	5439	25	14	47	52	
E2 .R1 - 25 x 16	5440	25	16	47	52	
E2 .R1 - 25 x 18	5441	25	18	47	52	
E2 .R1 - 25 x 20	5442	25	20	47	52	
E2 .R2 - 32 x 8	5457	32	8	57	62	 E2 - 25x32 E2 - 30x32
E2 .R2 - 32 x 10	5458	32	10	57	62	
E2 .R2 - 32 x 12	5459	32	12	57	62	
E2 .R2 - 32 x 14	5460	32	14	57	62	
E2 .R2 - 32 x 16	5461	32	16	57	62	
E2 .R2 - 32 x 18	5462	32	18	57	62	
E2 .R2 - 32 x 20	5463	32	20	57	62	
E2 .R2 - 32 x 25	5464	32	25	57	62	
E2 .R2 - 40 x 8	5473	40	8	57	62	 E2 - 30x40
E2 .R2 - 40 x 10	5474	40	10	57	62	
E2 .R2 - 40 x 12	5475	40	12	57	62	
E2 .R2 - 40 x 14	5476	40	14	57	62	
E2 .R2 - 40 x 16	5477	40	16	57	62	
E2 .R2 - 40 x 18	5478	40	18	57	62	
E2 .R2 - 40 x 20	5479	40	20	57	62	
E2 .R2 - 40 x 25	5480	40	25	57	62	
E2 .R2 - 40 x 32	5481	40	32	57	62	

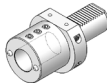
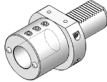
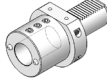
Bussole di riduzione per Portabareni tipo "E2" con attacco VDI 40

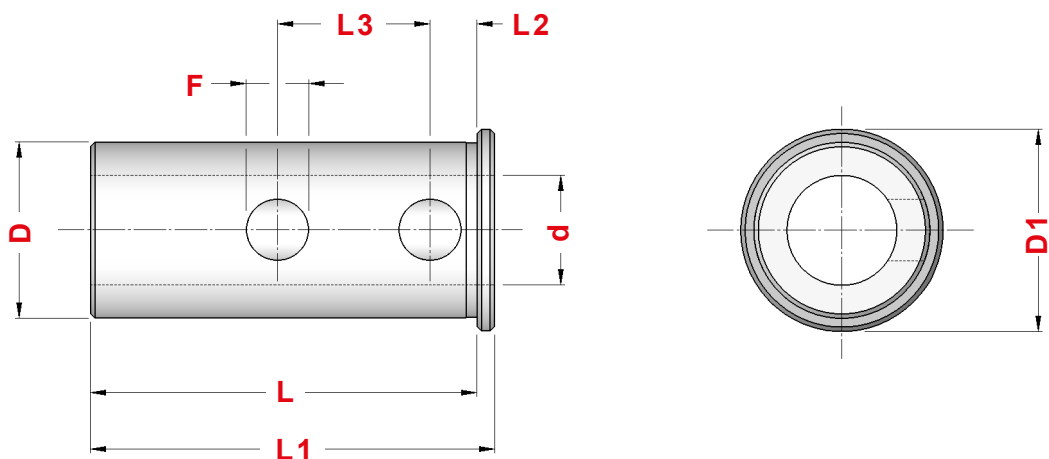
Headed reduction sleeves for Boring bar Holders "E2" type with shank VDI 40

TIPO	Art.	D	d	L	L1	TIPO E2
E2.R2 - 25 x 8	5443	25	8	57	62	 E2 - 40x25
E2.R2 - 25 x 10	5444	25	10	57	62	
E2.R2 - 25 x 12	5445	25	12	57	62	
E2.R2 - 25 x 14	5446	25	14	57	62	
E2.R2 - 25 x 16	5447	25	16	57	62	
E2.R2 - 25 x 18	5448	25	18	57	62	
E2.R2 - 25 x 20	5449	25	20	57	62	 E2 - 40x32
E2.R2 - 32 x 8	5457	32	8	57	62	
E2.R2 - 32 x 10	5458	32	10	57	62	
E2.R2 - 32 x 12	5459	32	12	57	62	
E2.R2 - 32 x 14	5460	32	14	57	62	
E2.R2 - 32 x 16	5461	32	16	57	62	
E2.R2 - 32 x 18	5462	32	18	57	62	 E2 - 40x40
E2.R2 - 32 x 20	5463	32	20	57	62	
E2.R2 - 32 x 25	5464	32	25	57	62	
E2.R3 - 40 x 8	5482	40	8	70	75	
E2.R3 - 40 x 10	5483	40	10	70	75	
E2.R3 - 40 x 12	5484	40	12	70	75	
E2.R3 - 40 x 14	5485	40	14	70	75	
E2.R3 - 40 x 16	5486	40	16	70	75	
E2.R3 - 40 x 18	5487	40	18	70	75	
E2.R3 - 40 x 20	5488	40	20	70	75	
E2.R3 - 40 x 25	5489	40	25	70	75	
E2.R3 - 40 x 32	5490	40	32	70	75	

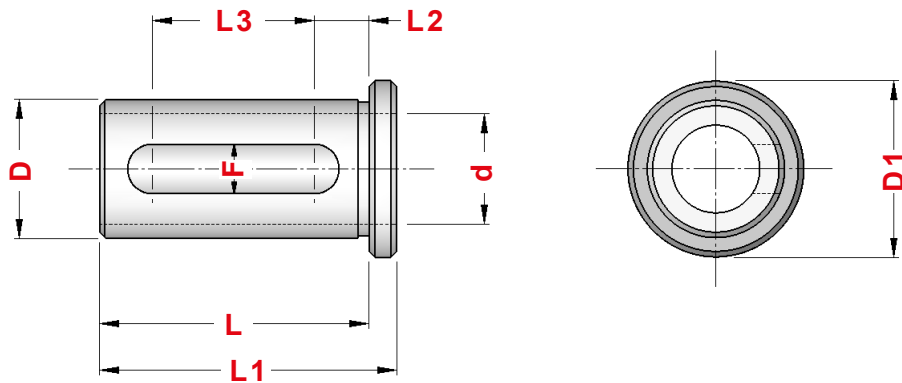
Bussole di riduzione per Portabareni tipo "E2" con attacco VDI 50 - VDI 60 - VDI 80

Headed reduction sleeves for Boring bar Holders "E2" type with shanks VDI 50 - VDI 60 - VDI 80

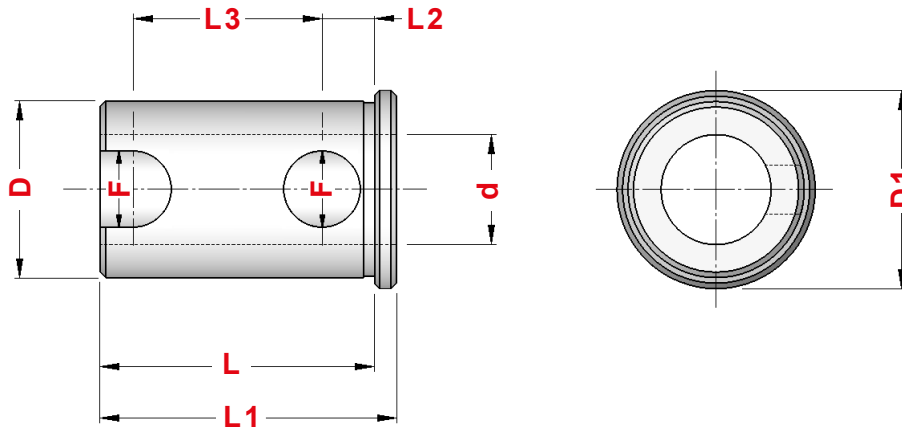
TIPO	Art.	D	d	L	L1	TIPO E2
E2.R3 - 25 x 8	5450	25	8	70	75	 E2 - 50x25 E2 - 60x25 E2 - 80x25
E2.R3 - 25 x 10	5451	25	10	70	75	
E2.R3 - 25 x 12	5452	25	12	70	75	
E2.R3 - 25 x 14	5453	25	14	70	75	
E2.R3 - 25 x 16	5454	25	16	70	75	
E2.R3 - 25 x 18	5455	25	18	70	75	
E2.R3 - 25 x 20	5456	25	20	70	75	 E2 - 50x32 E2 - 60x32 E2 - 80x32
E2.R3 - 32 x 8	5465	32	8	70	75	
E2.R3 - 32 x 10	5466	32	10	70	75	
E2.R3 - 32 x 12	5467	32	12	70	75	
E2.R3 - 32 x 14	5468	32	14	70	75	
E2.R3 - 32 x 16	5469	32	16	70	75	
E2.R3 - 32 x 18	5470	32	18	70	75	 E2 - 50x40 E2 - 60x40 E2 - 80x40
E2.R3 - 32 x 20	5471	32	20	70	75	
E2.R3 - 32 x 25	5472	32	25	70	75	
E2.R3 - 40 x 8	5482	40	8	70	75	
E2.R3 - 40 x 10	5483	40	10	70	75	
E2.R3 - 40 x 12	5484	40	12	70	75	
E2.R3 - 40 x 14	5485	40	14	70	75	
E2.R3 - 40 x 16	5486	40	16	70	75	
E2.R3 - 40 x 18	5487	40	18	70	75	
E2.R3 - 40 x 20	5488	40	20	70	75	
E2.R3 - 40 x 25	5489	40	25	70	75	
E2.R3 - 40 x 32	5490	40	32	70	75	



TIPO	Art.	D	d	L	L1	L2	L3	F	D1
BG.1 - 25 x 8	2823	25	8	70	74	7	28	9	32
BG.1 - 25 x 10	2824	25	10	70	74	7	28	9	32
BG.1 - 25 x 12	1064	25	12	70	74	7	28	9	32
BG.1 - 25 x 14	2722	25	14	70	74	7	28	9	32
BG.1 - 25 x 16	2198	25	16	70	74	7	28	9	32
BG.1 - 25 x 18	2723	25	18	70	74	7	28	9	32
BG.1 - 25 x 20	1212	25	20	70	74	7	28	9	32
BG.1 - 32 x 8	3229	32	8	88	92	9	35	14	36
BG.1 - 32 x 10	3230	32	10	88	92	9	35	14	36
BG.1 - 32 x 12	3231	32	12	88	92	9	35	14	36
BG.1 - 32 x 14	2726	32	14	88	92	9	35	14	36
BG.1 - 32 x 16	3232	32	16	88	92	9	35	14	36
BG.1 - 32 x 18	2737	32	18	88	92	9	35	14	36
BG.1 - 32 x 20	3233	32	20	88	92	9	35	14	36
BG.1 - 32 x 25	3234	32	25	88	92	9	35	14	36
BG.1 - 40 x 10	3240	40	10	88	92	9	35	14	46
BG.1 - 40 x 12	3239	40	12	88	92	9	35	14	46
BG.1 - 40 x 14	2757	40	14	88	92	9	35	14	46
BG.1 - 40 x 16	3238	40	16	88	92	9	35	14	46
BG.1 - 40 x 18	2762	40	18	88	92	9	35	14	46
BG.1 - 40 x 20	3235	40	20	88	92	9	35	14	46
BG.1 - 40 x 25	3236	40	25	88	92	9	35	14	46
BG.1 - 40 x 32	3237	40	32	88	92	9	35	14	46



TIPO	Art.	D	d	L	L1	L2	L3	F	D1
BG.2 - 25 x 8	0022	25	8	49	54	10	29,5	9	32
BG.2 - 25 x 10	0024	25	10	49	54	10	29,5	9	32
BG.2 - 25 x 12	0025	25	12	49	54	10	29,5	9	32
BG.2 - 25 x 14	0091	25	14	49	54	10	29,5	9	32
BG.2 - 25 x 16	0026	25	16	49	54	10	29,5	9	32
BG.2 - 25 x 18	0092	25	18	49	54	10	29,5	9	32
BG.2 - 25 x 20	0034	25	20	49	54	10	29,5	9	32



TIPO	Art.	D	d	L	L1	L2	L3	F	D1
BG.2 - 32 x 8	1083	32	8	50	54	9	35,0	14	36
BG.2 - 32 x 10	1236	32	10	50	54	9	35,0	14	36
BG.2 - 32 x 12	3246	32	12	50	54	9	35,0	14	36
BG.2 - 32 x 14	2604	32	14	50	54	9	35,0	14	36
BG.2 - 32 x 16	3247	32	16	50	54	9	35,0	14	36
BG.2 - 32 x 18	2605	32	18	50	54	9	35,0	14	36
BG.2 - 32 x 20	3248	32	20	50	54	9	35,0	14	36
BG.2 - 32 x 25	3249	32	25	50	54	9	35,0	14	36

Figura 1

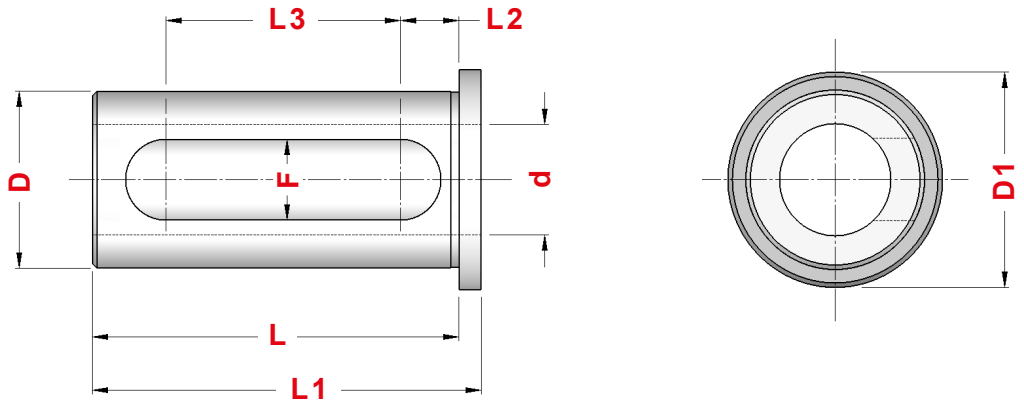


Figura 2

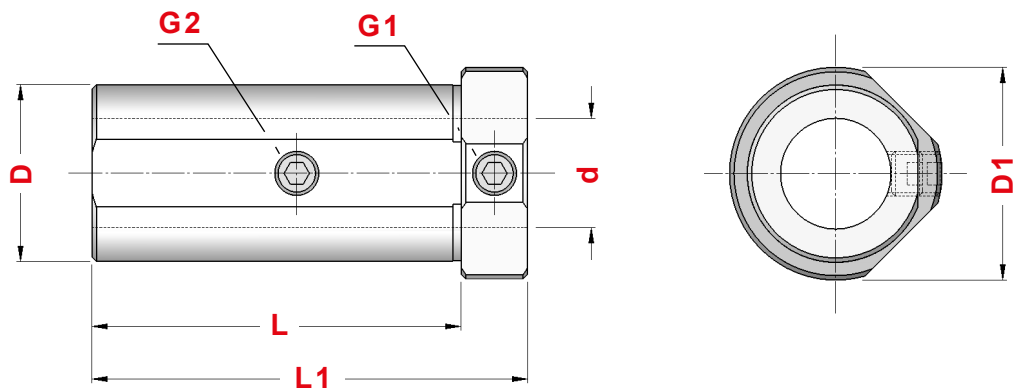
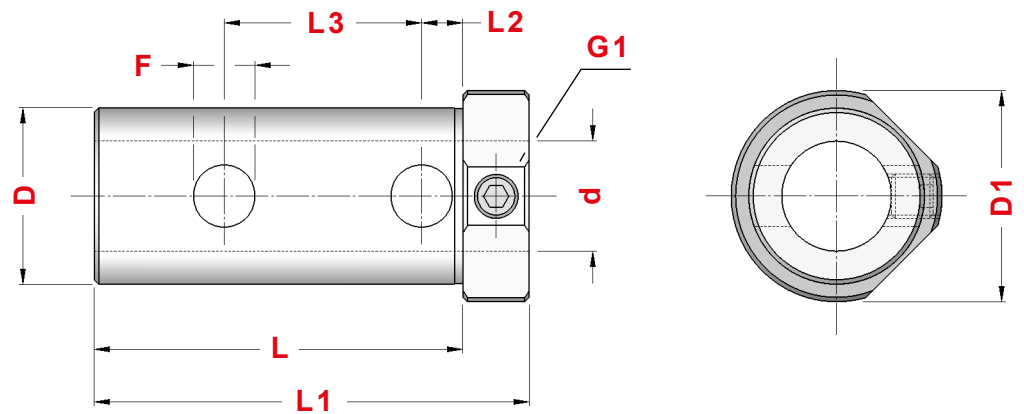
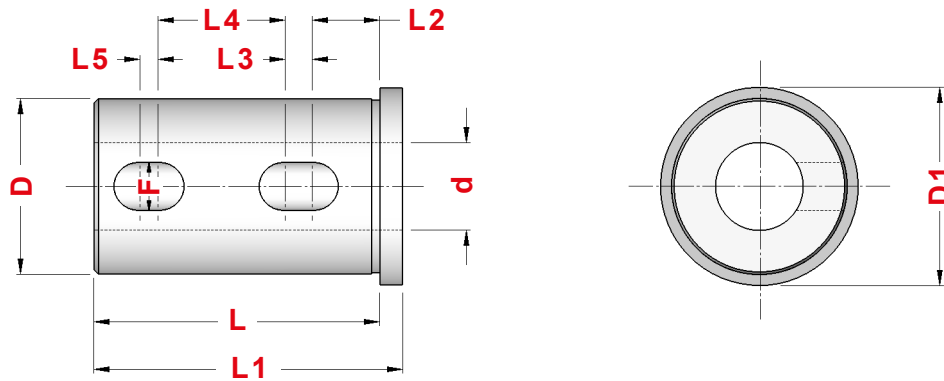


Figura 3

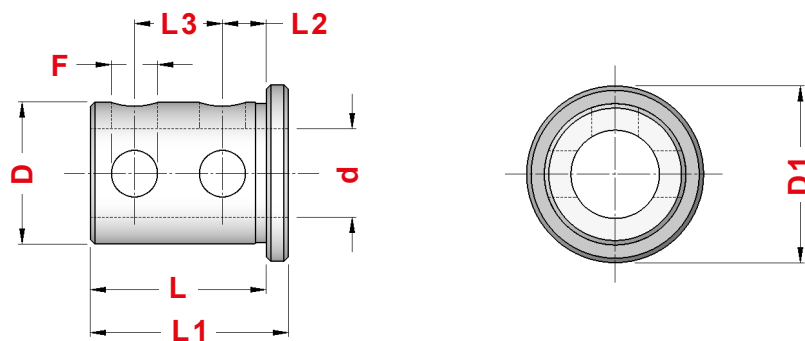


TIPO	Art.	D	d	L	L1	L2	L3	F	D1	Fig.	G1	G2
DW.1 - 20 x 8	8796	20	8	44	47	8,5	27	9	25	1	—	—
DW.1 - 20 x 10	8797	20	10	44	47	8,5	27	9	25	1	—	—
DW.1 - 20 x 12	8798	20	12	44	47	8,5	27	9	25	1	—	—
DW.1 - 20 x 16	8799	20	16	44	47	8,5	27	9	25	1	—	—
DW.1 - 40 x 10	8916	40	10	84	99	—	—	—	48	2	0377	4972
DW.1 - 40 x 12	8917	40	12	84	99	—	—	—	48	2	0377	4972
DW.1 - 40 x 16	8918	40	16	84	99	—	—	—	48	2	0377	0060
DW.1 - 40 x 20	8919	40	20	84	99	9,5	45	14	48	3	4972	—
DW.1 - 40 x 25	8920	40	25	84	99	9,5	45	14	48	3	4972	—
DW.1 - 40 x 32	8921	40	32	84	99	9,5	45	14	48	3	0385	—



DW.2**BUSSOLE DI RIDUZIONE CORTE PER MACCHINE TIPO DAEWOO etc.**
SHORT REDUCTION SLEEVES FOR DAEWOO MACHINES TYPE etc.

TIPO	Art.	D	d	L	L1	L2	L3	L4	L5	F	D1
DW.2 - 40 x 20	8897	40	20	65	70	15	7	28	5	11	45
DW.2 - 40 x 25	8898	40	25	65	70	15	7	28	5	11	45
DW.2 - 40 x 32	8899	40	32	65	70	15	7	28	5	11	45

NT.1**BUSSOLE DI RIDUZIONE PER MACCHINE TIPO NAKAMURA TOME etc.**
REDUCTION SLEEVES FOR NAKAMURA TOME MACHINES TYPE etc.

TIPO	Art.	D	d	L	L1	L2	L3	F	D1
NT.1 - 25 x 6	8874	25	6	40	45	10	20	10,5	32
NT.1 - 25 x 8	8875	25	8	40	45	10	20	10,5	32
NT.1 - 25 x 10	8876	25	10	40	45	10	20	10,5	32
NT.1 - 25 x 12	8877	25	12	40	45	10	20	10,5	32
NT.1 - 25 x 16	8878	25	16	40	45	10	20	10,5	32
NT.1 - 25 x 20	8879	25	20	40	45	10	20	10,5	32

Figura 1

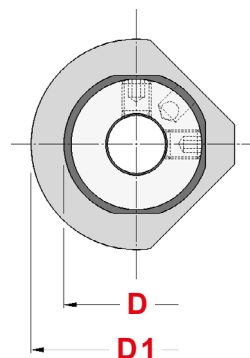
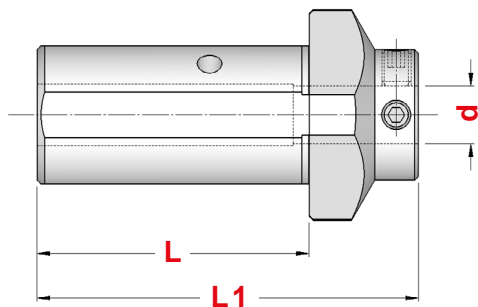


Figura 2

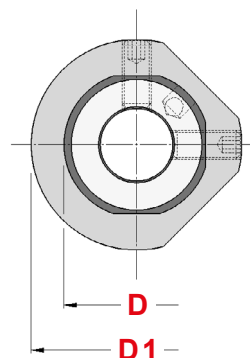
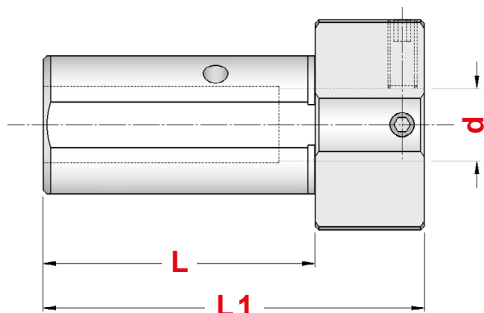
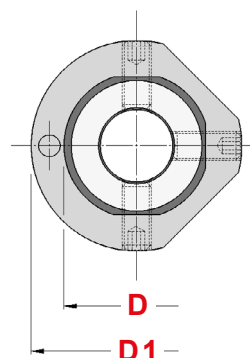
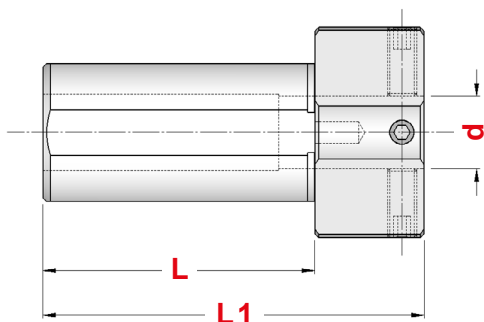



Figura 3

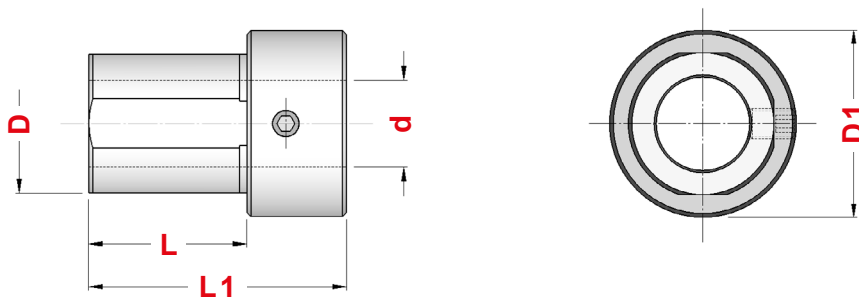


TIPO	Art.	D	d	L	L1	D1	Fig.	
MZ.1 - 32 x 8	8926	32	8	60	85	50	1	0371
MZ.1 - 32 x 10	8927	32	10	60	85	50	1	0371
MZ.1 - 32 x 12	8928	32	12	60	85	50	1	0375
MZ.1 - 32 x 16	8929	32	16	60	85	50	1	4971
MZ.1 - 32 x 20	8930	32	20	60	85	50	3	0375
MZ.1 - 32 x 25	8931	32	25	60	85	50	3	0375
MZ.1 - 40 x 8	5581	40	8	75	105	58	1	0371
MZ.1 - 40 x 10	5582	40	10	75	105	58	1	0371
MZ.1 - 40 x 12	5583	40	12	75	105	58	1	0375
MZ.1 - 40 x 16	5585	40	16	75	105	58	1	4971
MZ.1 - 40 x 20	5587	40	20	75	105	58	2	0183
MZ.1 - 40 x 25	5594	40	25	75	105	58	3	0021
MZ.1 - 40 x 32	5595	40	32	75	105	58	3	0021

MZ.2

BUSSOLE DI RIDUZIONE CORTE PER MACCHINE TIPO MAZAK etc.

SHORT REDUCTION SLEEVES FOR MAZAK MACHINES TYPE etc.



TIPO	Art.	D	d	L	L1	D1	
MZ.2 - 32 x 20	8932	32	20	40	65	42	4971
MZ.2 - 32 x 25	8933	32	25	40	65	42	0021
MZ.2 - 40 x 20	5596	40	20	40	65	50	0382
MZ.2 - 40 x 25	5597	40	25	40	65	50	0375
MZ.2 - 40 x 32	5598	40	32	40	65	50	4971



MZ.3

BUSSOLE DI RIDUZIONE A CONO MORSE PER MACCHINE TIPO MAZAK etc.

MORSE TAPER REDUCTION SLEEVES FOR MAZAK MACHINES TYPE etc.

Figura 1

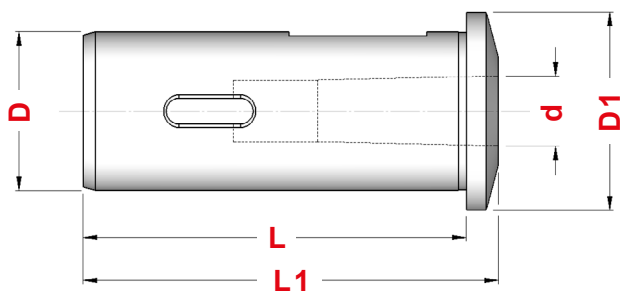
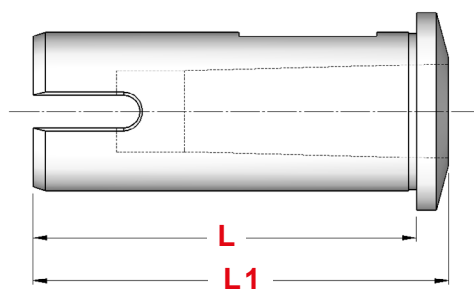


Figura 2



TIPO	Art.	D	CM	d	L	L1	D1	Fig.
MZ.3 - 32 x 1	8983	32	1	12,065	54	66	42	2
MZ.3 - 32 x 2	8984	32	2	17,780	58	70	42	2
MZ.3 - 40 x 1	8985	40	1	12,065	97	105	50	1
MZ.3 - 40 x 2	8986	40	2	17,780	97	105	50	1
MZ.3 - 40 x 3	8987	40	3	23,825	97	105	50	2

Figura 1

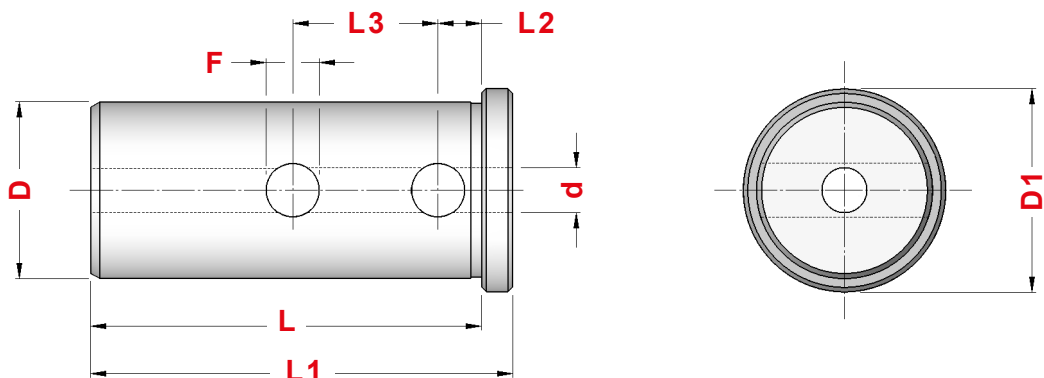
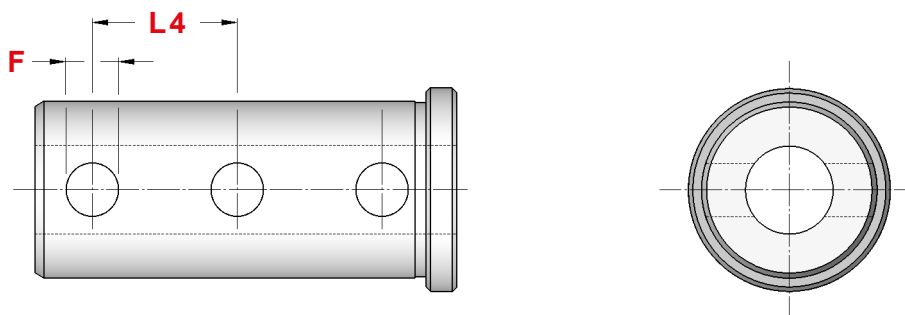
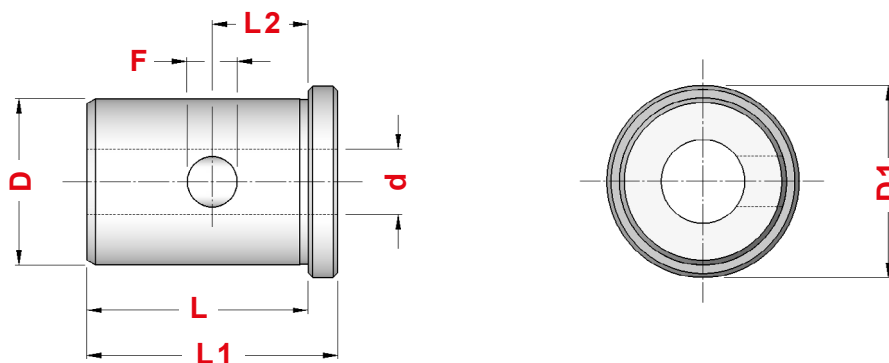


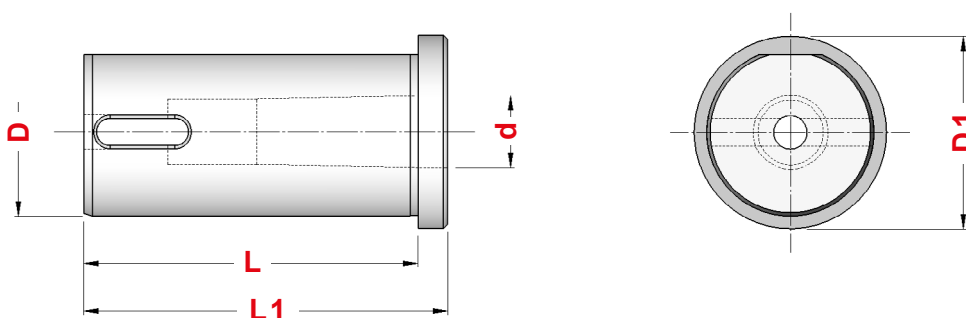
Figura 2



TIPO	Art.	D	d	L	L1	L2	L3	L4	F	D1	Fig.
MS.1 - 25 x 8	8934	25	8	78	83	9	31	30	11	30	2
MS.1 - 25 x 10	8935	25	10	78	83	9	31	30	11	30	2
MS.1 - 25 x 12	8936	25	12	78	83	9	31	30	11	30	2
MS.1 - 25 x 16	8938	25	16	78	83	9	31	30	11	30	2
MS.1 - 25 x 20	8940	25	20	78	83	9	31	30	11	30	2
MS.1 - 32 x 6	7035	32	6	79	86	10	29,5	—	10	38	1
MS.1 - 32 x 8	8941	32	8	79	86	10	29,5	—	10	38	1
MS.1 - 32 x 10	8942	32	10	79	86	10	29,5	—	10	38	1
MS.1 - 32 x 12	8943	32	12	79	86	10	29,5	29,5	10	38	2
MS.1 - 32 x 16	8944	32	16	79	86	10	29,5	29,5	10	38	2
MS.1 - 32 x 20	8945	32	20	79	86	10	29,5	29,5	10	38	2
MS.1 - 32 x 25	8946	32	25	79	86	10	29,5	29,5	10	38	2
MS.1 - 40 x 8	5900	40	8	89	96	10	33	—	12	46	1
MS.1 - 40 x 10	5901	40	10	89	96	10	33	—	12	46	1
MS.1 - 40 x 12	5902	40	12	89	96	10	33	—	12	46	1
MS.1 - 40 x 16	5903	40	16	89	96	10	33	33	12	46	2
MS.1 - 40 x 20	5904	40	20	89	96	10	33	33	12	46	2
MS.1 - 40 x 25	5905	40	25	89	96	10	33	33	12	46	2
MS.1 - 40 x 32	5906	40	32	89	96	10	33	33	12	46	2

MS.2**BUSSOLE DI RIDUZIONE CORTE PER MACCHINE TIPO MORI SEIKI etc.**
SHORT REDUCTION SLEEVES FOR MORI SEIKI MACHINES TYPE etc.

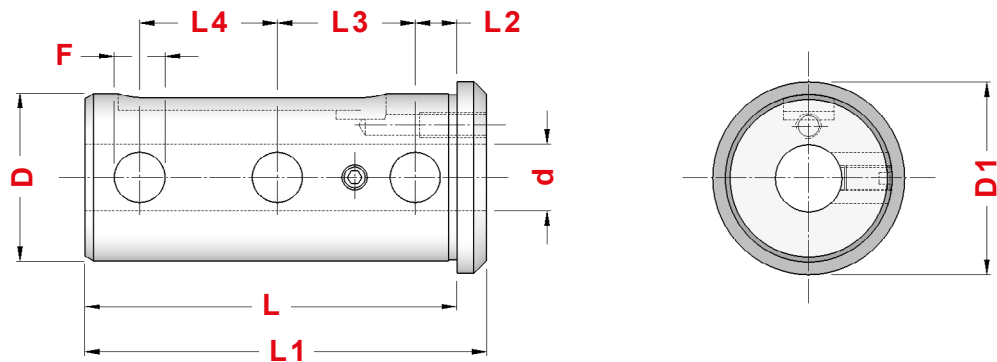
TIPO	Art.	D	d	L	L1	L2	F	D1
MS.2 - 32 x 16	8947	32	16	53	60	20	12	38
MS.2 - 32 x 20	8948	32	20	53	60	20	12	38
MS.2 - 32 x 25	8949	32	25	53	60	20	12	38
MS.2 - 40 x 16	8950	40	16	53	60	23	12	46
MS.2 - 40 x 20	8951	40	20	53	60	23	12	46
MS.2 - 40 x 25	8952	40	25	53	60	23	12	46
MS.2 - 40 x 32	8953	40	32	53	60	23	12	46

MS.4**BUSSOLE DI RIDUZIONE A CM PER MACCHINE TIPO MORI SEIKI etc.**
MORSE TAPER REDUCTION SLEEVES FOR MORI SEIKI MACHINES TYPE etc.

TIPO	Art.	D	CM	d	L	L1	D1
MS.4 - 40 x 1	8958	40	1	12,065	89	96	46
MS.4 - 40 x 2	8959	40	2	17,780	89	96	46
MS.4 - 40 x 3	8960	40	3	23,825	89	108	46
MS.4 - 50 x 4	8961	50	4	31,267	89	135	56

MS.1A

BUSSOLE DI RIDUZIONE CON PASSAGGIO REFRIGERANTE PER MACCHINE TIPO MORI SEIKI etc. THROUGH COOLANT REDUCTION SLEEVES FOR MORI SEIKI MACHINES TYPE etc.

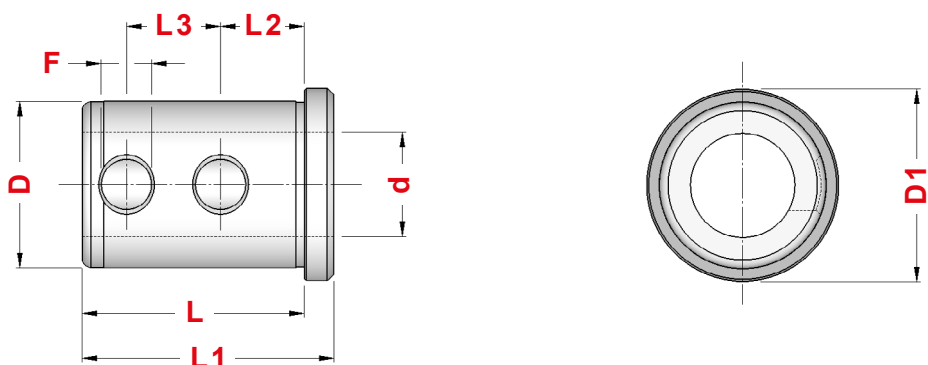


TIPO	Art.	D	d	L	L1	L2	L3	L4	F	D1	
MS.1A - 32 x 8	8850	32	8	78	85	10	29,5	—	10	40	—
MS.1A - 32 x 10	8851	32	10	78	85	10	29,5	—	10	40	—
MS.1A - 32 x 12	8852	32	12	78	85	10	29,5	—	10	40	—
MS.1A - 32 x 16	8853	32	16	78	85	10	29,5	29,5	10	40	—
MS.1A - 32 x 20*	8854	32	20	78	85	10	29,5	29,5	10	40	—
MS.1A - 32 x 25*	8855	32	25	78	85	10	29,5	29,5	10	40	—
MS.1A - 40 x 8	8856	40	8	89	96	10	33	—	12	46	0020
MS.1A - 40 x 10	8857	40	10	89	96	10	33	—	12	46	0020
MS.1A - 40 x 12	8858	40	12	89	96	10	33	—	12	46	0020
MS.1A - 40 x 16	8859	40	16	89	96	10	33	33	12	46	0020
MS.1A - 40 x 20	8860	40	20	89	96	10	33	33	12	46	0020
MS.1A - 40 x 25*	8861	40	25	89	96	10	33	33	12	46	0020
MS.1A - 40 x 32*	8862	40	32	89	96	10	33	33	12	46	—

* = senza foro di refrigerazione - without coolant hole

MS.2A

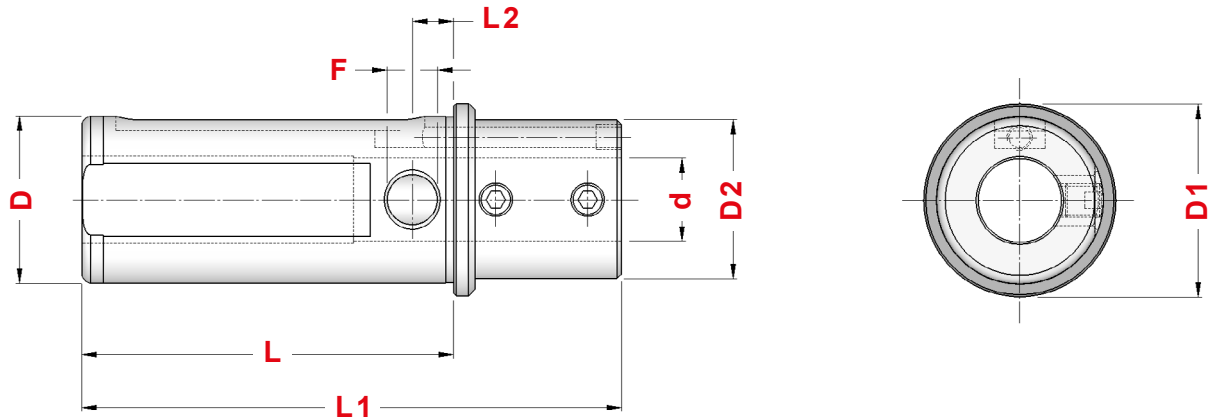
BUSSOLE DI RIDUZIONE CORTE CON PASSAGGIO REFRIGERANTE PER MACCHINE TIPO MORI SEIKI etc. THROUGH COOLANT SHORT REDUCTION SLEEVES FOR MORI SEIKI MACHINES TYPE etc.




TIPO	Art.	D	d	L	L1	L2	L3	F	D1
MS.2A - 40 x 16	8922	40	16	53	60	20	22,5	12	46
MS.2A - 40 x 20	8923	40	20	53	60	20	22,5	12	46
MS.2A - 40 x 25	8924	40	25	53	60	20	22,5	12	46
MS.2A - 40 x 32	8925	40	32	53	60	20	22,5	12	46

MS.3A

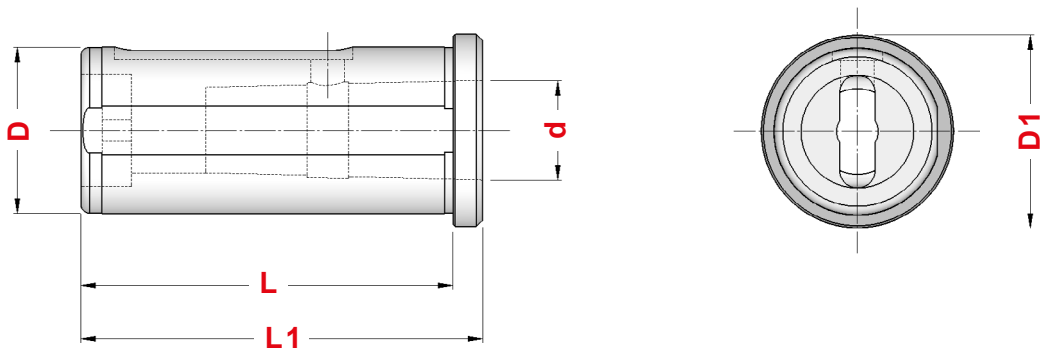
BUSSOLE DI RIDUZIONE PROLUNGATE CON PASSAGGIO REFRIGERANTE
PER MACCHINE TIPO MORI SEIKI etc.
THROUGH COOLANT EXTENDED REDUCTION SLEEVES FOR MORI SEIKI MACHINES TYPE etc.



TIPO	Art.	D	d	L	L1	L2	F	D1	D2	
MS.3A - 40 x 8	8863	40	8	89	129	10	12	46	38	0375
MS.3A - 40 x 10	8864	40	10	89	129	10	12	46	38	0375
MS.3A - 40 x 12	8865	40	12	89	129	10	12	46	38	0375
MS.3A - 40 x 16	8866	40	16	89	129	10	12	46	38	4971
MS.3A - 40 x 20	8867	40	20	89	129	10	12	46	38	0021

MS.4A

BUSSOLE DI RIDUZIONE A CONO MORSE CON PASSAGGIO REFRIGERANTE
PER MACCHINE TIPO MORI SEIKI etc.
THROUGH COOLANT MORSE TAPER REDUCTION SLEEVES FOR MORI SEIKI MACHINES TYPE etc.



TIPO	Art.	D	CM	d	L	L1	D1
MS.4A - 32 x 1	8868	32	1	12,065	78	85	40
MS.4A - 32 x 2	8869	32	2	17,780	78	85	40
MS.4A - 40 x 1	8870	40	1	12,065	89	96	46
MS.4A - 40 x 2	8871	40	2	17,780	89	96	46
MS.4A - 40 x 3	8872	40	3	23,825	89	96	46
MS.4A - 40 x 4	8873	40	4	31,267	109	116	46

OK.1

BUSSE DI RIDUZIONE PER MACCHINE
TIPO OKUMA LT 10M / LT 200M etc.
REDUCTION SLEEVES FOR OKUMA LT10M / LT200M MACHINES TYPE etc.

Figura 1

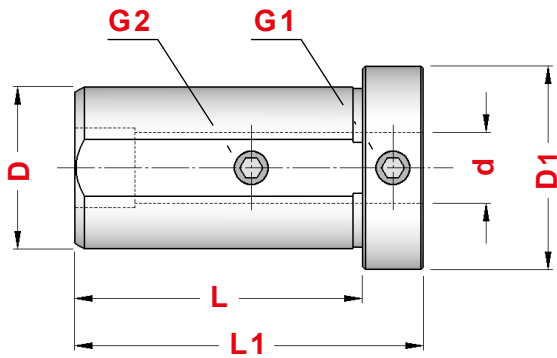
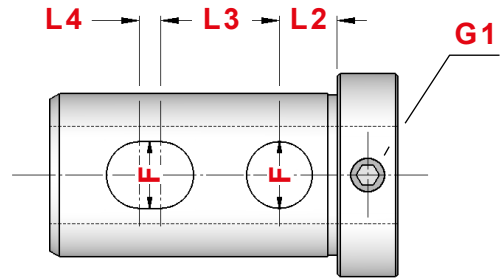


Figura 2



TIPO	Art.	D	d	L	L1	L2	L3	L4	F	D1	Fig.	G1	G2
OK.1 - 32 x 8	8900	32	8	57	69	—	—	—	—	40	1	0382	4971
OK.1 - 32 x 10	8901	32	10	57	69	—	—	—	—	40	1	0382	4971
OK.1 - 32 x 12	8902	32	12	57	69	—	—	—	—	40	1	0375	0021
OK.1 - 32 x 16	8904	32	16	59	71	11,5	35	4	13	40	2	0375	—
OK.1 - 32 x 20	8906	32	20	59	71	11,5	35	4	13	40	2	4971	—
OK.1 - 32 x 25	8907	32	25	59	71	11,5	35	4	13	40	2	0021	—

OK.2

BUSSE DI RIDUZIONE PER MACCHINE
TIPO OKUMA LT 15M / LT 300M etc.
REDUCTION SLEEVES FOR OKUMA LT15M / LT300M MACHINES TYPE etc.

Figura 1

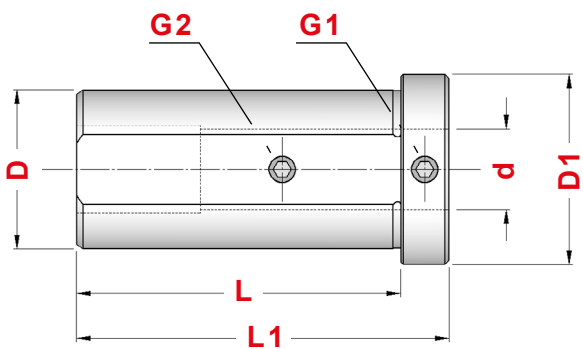
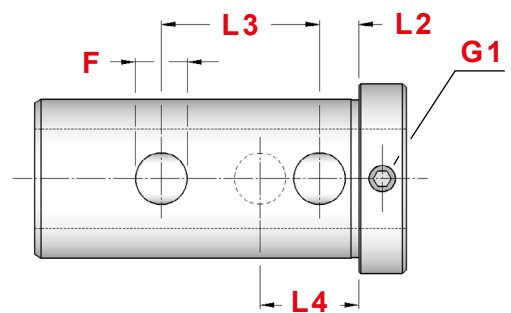


Figura 2



TIPO	Art.	D	d	L	L1	L2	L3	L4	F	D1	Fig.	G1	G2
OK.2 - 40 x 10	8962	40	10	82	94	—	—	—	—	48	1	0183	0375
OK.2 - 40 x 12	8963	40	12	82	94	—	—	—	—	48	1	0382	0375
OK.2 - 40 x 16	8964	40	16	82	94	—	—	—	—	48	1	0382	4971
OK.2 - 40 x 20	8965	40	20	82	94	—	—	—	—	48	1	0375	0021
OK.2 - 40 x 25	8966	40	25	82	94	10	40	25	13	48	2	0375	—
OK.2 - 40 x 32	8967	40	32	82	94	10	40	25	13	48	2	0021	—

OK.4
OK.5

BUSSOLE DI RIDUZIONE PER MACCHINE
TIPO OKUMA LB 15II / LB 15IIMW etc.
REDUCTION SLEEVES FOR OKUMA LB 15II / LB 15IIMW MACHINES TYPE etc.

Figura 1

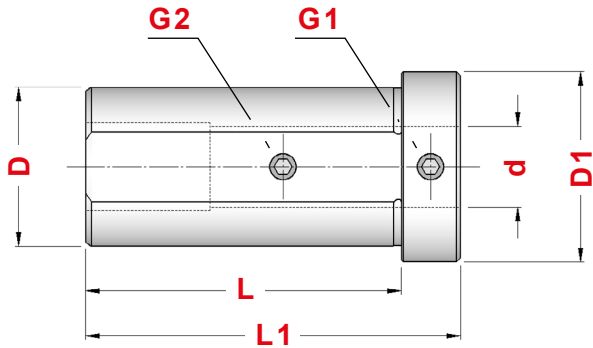
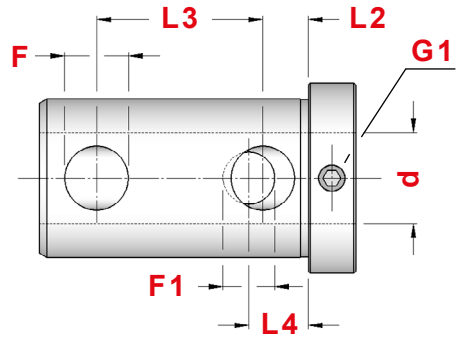


Figura 2



TIPO	Art.	D	d	L	L1	L2	L3	L4	F	F1	D1	Fig.	G1	G2
OK.4 - 40 x 10	8971	40	10	80	95	—	—	—	—	—	48	1	0183	0375
OK.4 - 40 x 12	8972	40	12	80	95	—	—	—	—	—	48	1	0377	4972
OK.4 - 40 x 16	8973	40	16	80	95	—	—	—	—	—	48	1	0377	0060
OK.4 - 40 x 20	8974	40	20	80	95	—	—	—	—	—	48	1	4972	0385
OK.4 - 40 x 25	8975	40	25	68	80	11,5	42	15	16	13	48	2	4971	—
OK.4 - 40 x 32	8976	40	32	68	80	11,5	42	15	16	13	48	2	0021	—

Figura 1

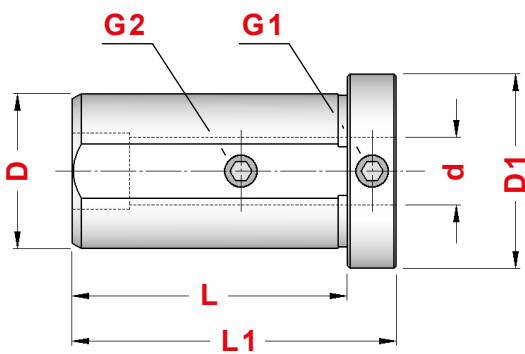
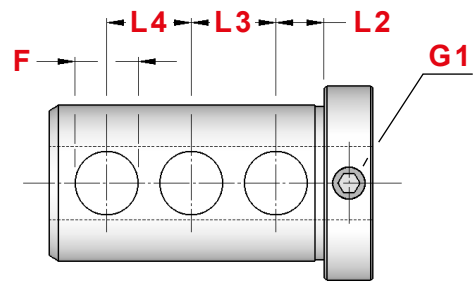


Figura 2



TIPO	Art.	D	d	L	L1	L2	L3	L4	F	D1	Fig.	G1	G2
OK.5 - 40 x 10	8977	40	10	77	89	—	—	—	—	48	1	0183	0375
OK.5 - 40 x 12	8978	40	12	77	89	—	—	—	—	48	1	0382	0375
OK.5 - 40 x 16	8979	40	16	77	89	—	—	—	—	48	1	0382	4971
OK.5 - 40 x 20	8980	40	20	77	89	—	—	—	—	48	1	0382	0021
OK.5 - 40 x 25	8981	40	25	77	89	10	29	29	12	48	2	0375	—
OK.5 - 40 x 32	8982	40	32	77	89	10	29	29	12	48	2	0021	—

OK.7

BUSSOLE DI RIDUZIONE PER MACCHINE TIPO OKUMA MACTURN 250 / MULTUS etc. REDUCTION SLEEVES FOR OKUMA MACTURN 250 / MULTUS MACHINES TYPE etc.

Figura 1

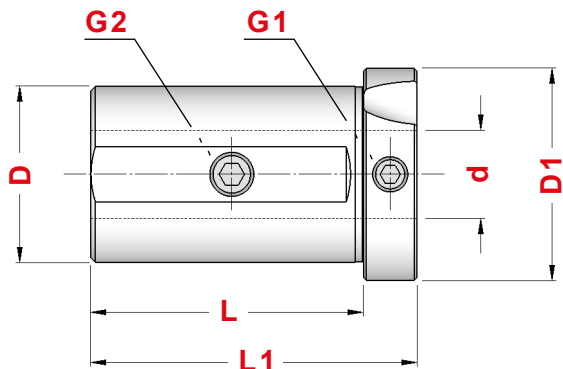
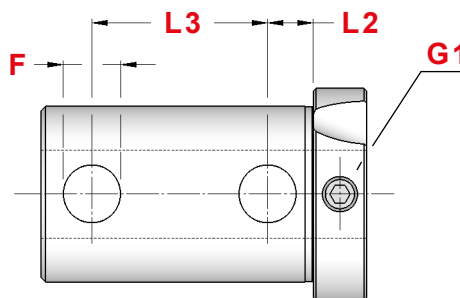
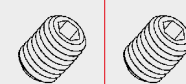


Figura 2

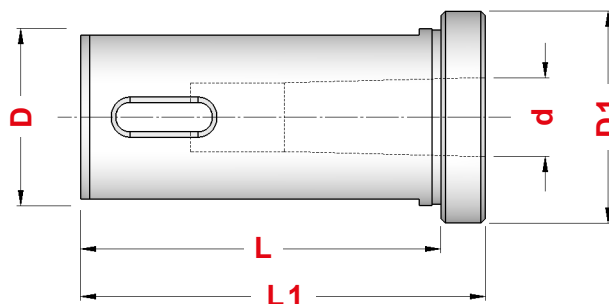


TIPO	Art.	D	d	L	L1	L2	L3	F	D1	Fig.	G1	G2
OK.7 - 40 x 10	8910	40	10	62	74	—	—	—	48	1	0382	0375
OK.7 - 40 x 12	8911	40	12	62	74	—	—	—	48	1	0382	0375
OK.7 - 40 x 16	8912	40	16	62	74	—	—	—	48	1	0382	0060
OK.7 - 40 x 20	8913	40	20	62	74	—	—	—	48	1	0375	0060
OK.7 - 40 x 25	8914	40	25	62	74	11,5	40	13	48	2	0375	—
OK.7 - 40 x 32	8915	40	32	62	74	11,5	40	13	48	2	0021	—



OK.6

BUSSOLE DI RIDUZIONE A CONO MORSE PER MACCHINE TIPO OKUMA etc. MORSE TAPER REDUCTION SLEEVES FOR OKUMA MACHINES TYPE etc.



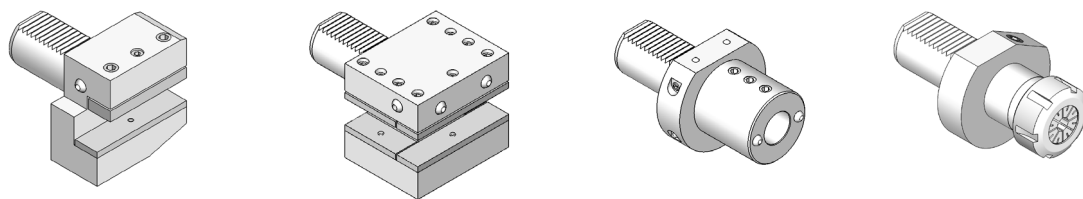
TIPO	Art.	D	CM	d	L	L1	D1
OK.6 - 40 x 1	8968	40	1	12,065	82	87	48
OK.6 - 40 x 2	8969	40	2	17,780	82	92	48
OK.6 - 40 x 3	8970	40	3	23,825	82	112	48

INDICE DEI PORTAUTENSILI PER TORNI AUTOMATICI

INDEX OF TOOLHOLDERS FOR AUTOMATIC LATHES

ATTACCO VDI - DIN 69880

DIN 69880 - VDI SHANK

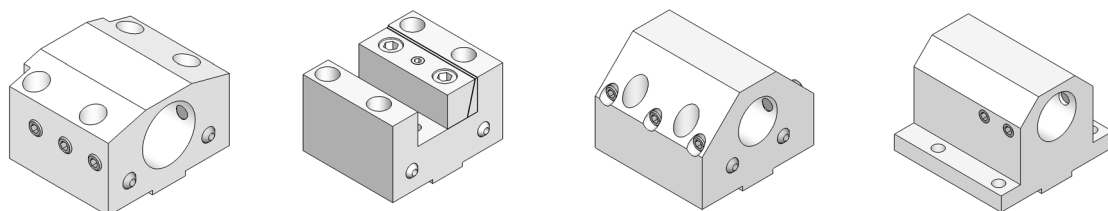


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PORTAUTENSILI RADIALI

RADIAL TOOLHOLDERS

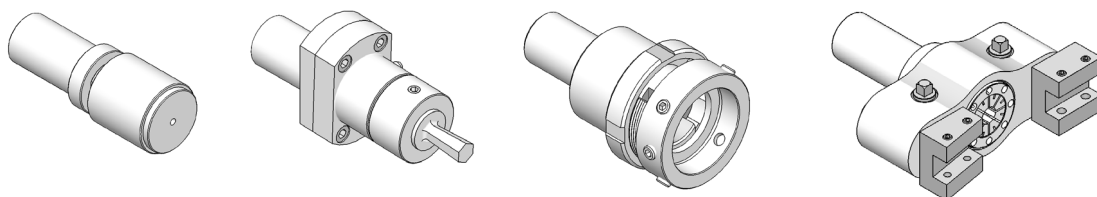


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PORTAUTENSILI ATTACCO CILINDRICO

CILINDRICAL SHANK TOOLHOLDERS

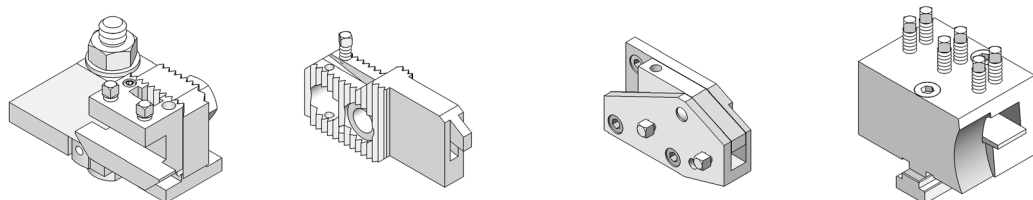


Programma completo da pagina

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PORTAUTENSILI PER TORNI AUTOMATICI

TOOLHOLDERS FOR AUTOMATIC LATHES

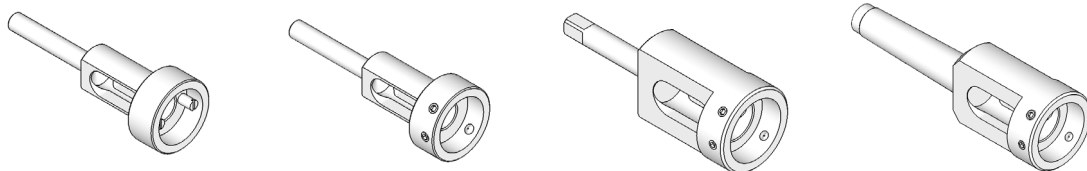


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PORTAFILIERA FISSI

FIXED THREADING DIE HOLDERS

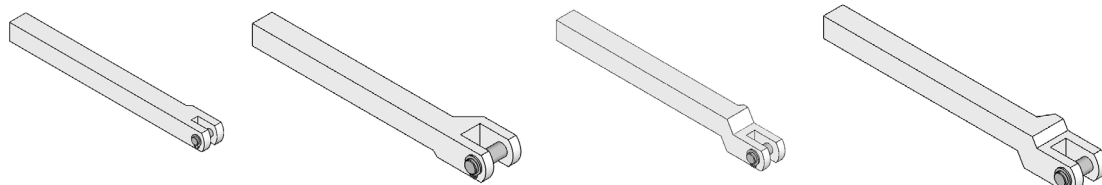


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PORTAGODRONI

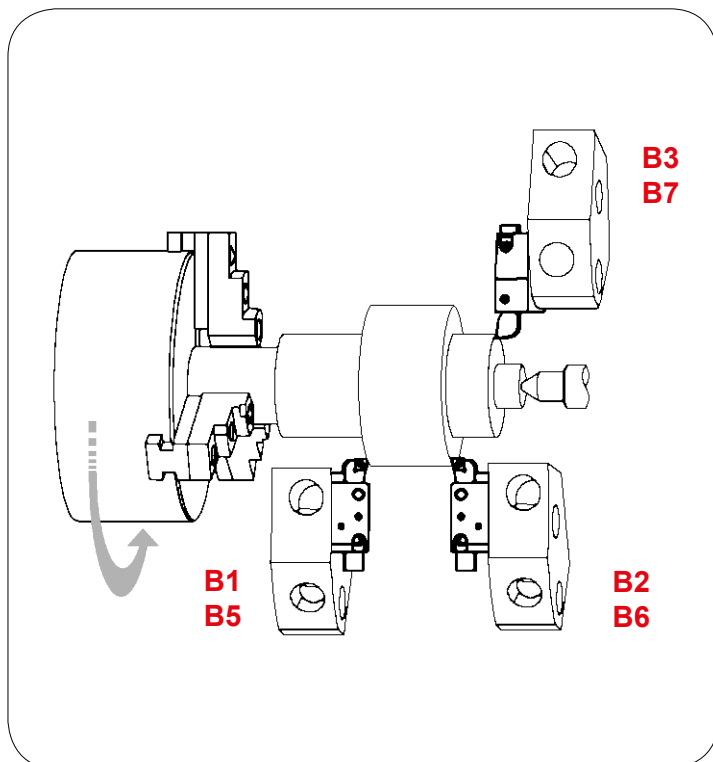
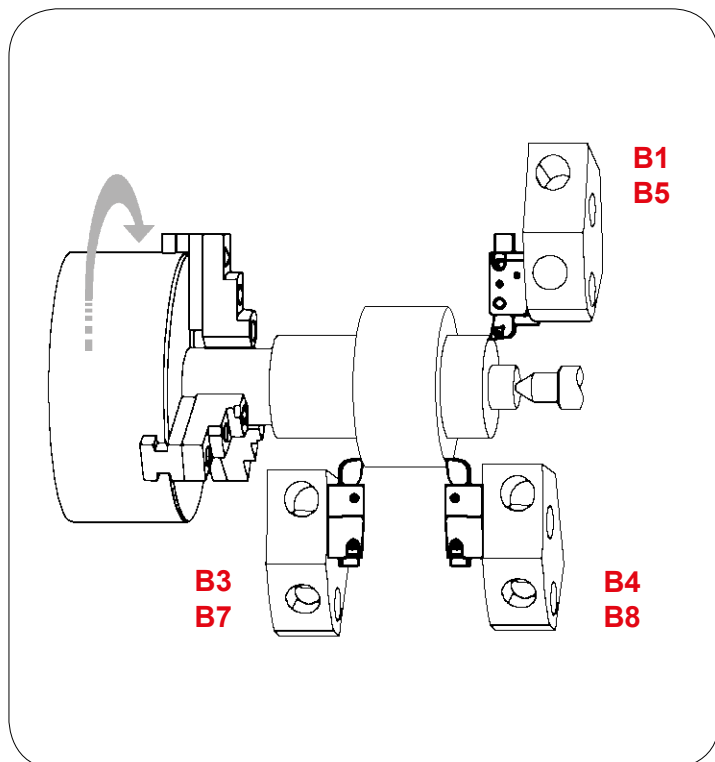
KNURLING-WHEEL HOLDERS



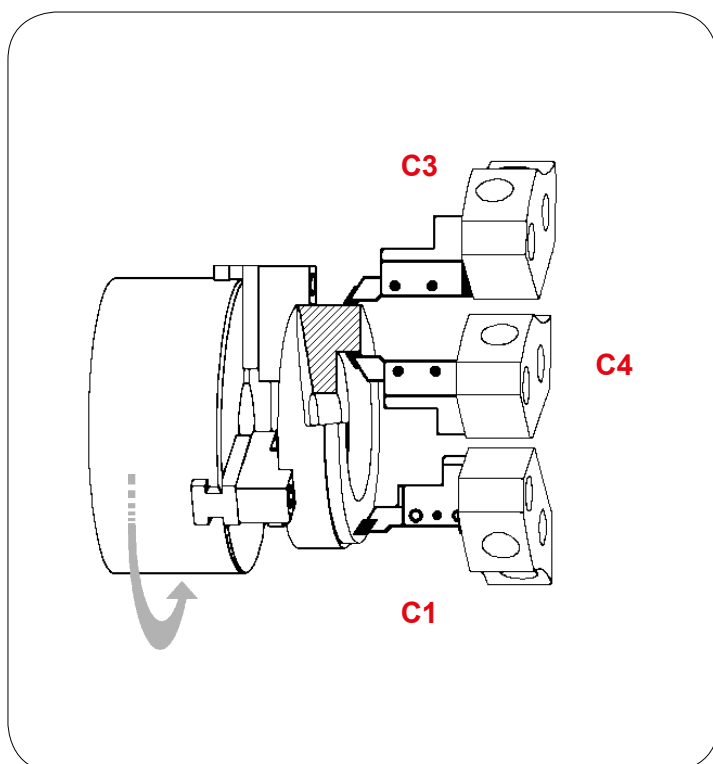
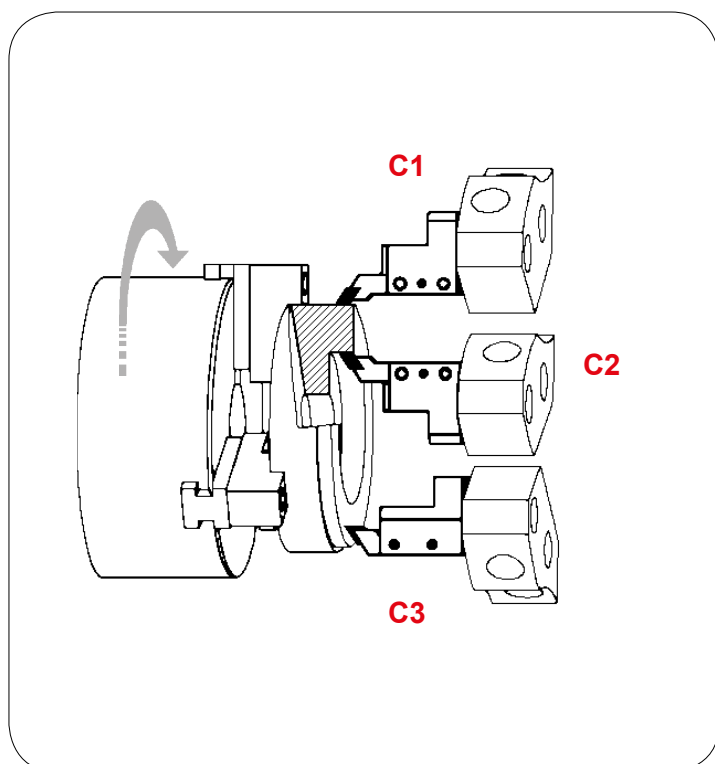
Programma completo a pagina

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IMPIEGO DEI PORTAUTENSILI RADIALI VDI - DIN 69880
USE OF RADIAL TOOLHOLDERS VDI - DIN 69880

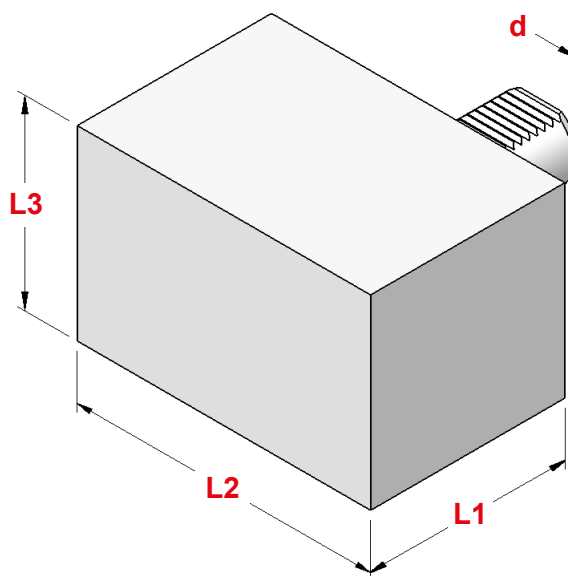


IMPIEGO DEI PORTAUTENSILI ASSIALI VDI - DIN 69880
USE OF AXIAL TOOLHOLDERS VDI - DIN 69880



**VDI
DIN 69880**

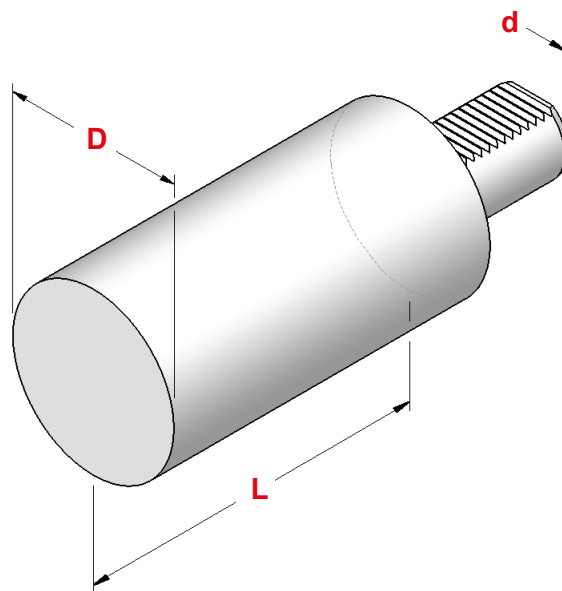
**PORTAUTENSILI LAVORABILI
BLANK TOOLHOLDERS**



TIPO	Art.	d	L1	L2	L3
A1- 16x44	5600	16	44	78	44
A1- 20x65	5634	20	65	100	60
A1- 30x85	5616	30	85	130	76
A1- 40x100	5635	40	100	151	96
A1- 50x125	5636	50	125	160	120
A1- 60x160	9356	60	160	165	125

**VDI
DIN 69880**

**PORTAUTENSILI LAVORABILI
BLANK TOOLHOLDERS**

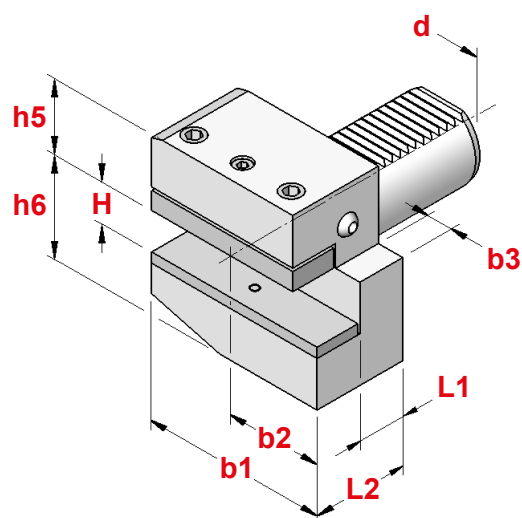


TIPO	Art.	d	D	L
A2- 16x60	5602	16	40	60
A2- 20x70	5637	20	50	70
A2- 30x100	5615	30	68	100
A2- 30x240	5638			240
A2- 40x120	5639	40	83	120
A2- 40x320	5640			320
A2- 50x135	5641	50	98	135
A2- 50x400	5642			400
A2- 60x150	9357	60	123	150
A2- 60x480	9358			480

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE DESTRI CORTI
RADIAL TOOLHOLDERS - RIGHT HAND - SHORT TYPE

B1

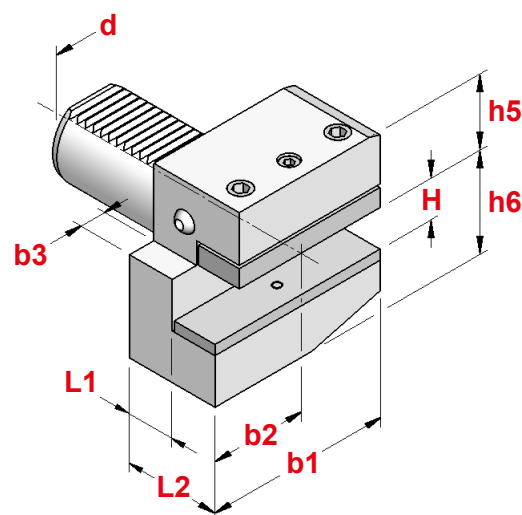


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B1 - 16x12x24	5605	16	42	23,0	5,0	12	13	24
B1 - 16x12x34	5607						23	34
B1 - 20x16x30	5643	20	55	30,0	7,0	16/12	16	30
B1 - 20x16x40	5644						26	40
B1 - 30x20x40	5617	30	70	35,0	10,0	20/16	22	40
B1 - 30x20x60	5738						42	60
B1 - 40x25x44	5649	40	85	42,5	12,5	25/20	22	44
B1 - 50x32x55	5795	50	100	50,0	16,0	32/25	30	55
B1 - 60x32x60	9359	60	125	62,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE SINISTRI CORTI
RADIAL TOOLHOLDERS - LEFT HAND - SHORT TYPE

B2

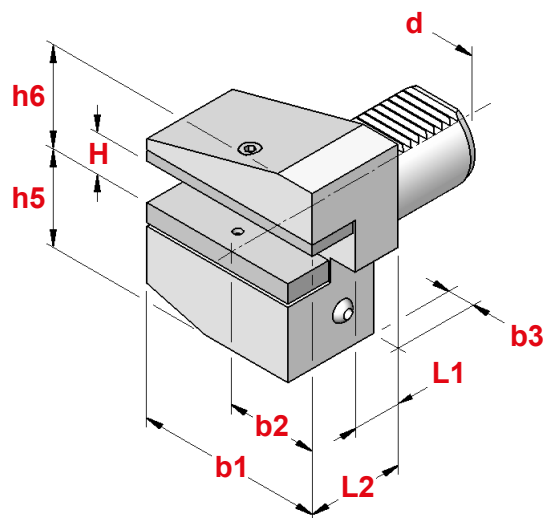


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B2 - 16x12x24	9324	16	42	23,0	5,0	12	13	24
B2 - 16x12x34	9325						23	34
B2 - 20x16x30	5650	20	55	30,0	7,0	16/12	16	30
B2 - 20x16x40	5651						26	40
B2 - 30x20x40	5624	30	70	35,0	10,0	20/16	22	40
B2 - 30x20x60	5739						42	60
B2 - 40x25x44	5656	40	85	42,5	12,5	25/20	22	44
B2 - 50x32x55	5796	50	100	50,0	16,0	32/25	30	55
B2 - 60x32x60	9360	60	125	62,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE ROVESCIA TI DESTRI CORTI
RADIAL UPSIDE-DOWN TOOLHOLDERS - RIGHT HAND - SHORT TYPE

B3

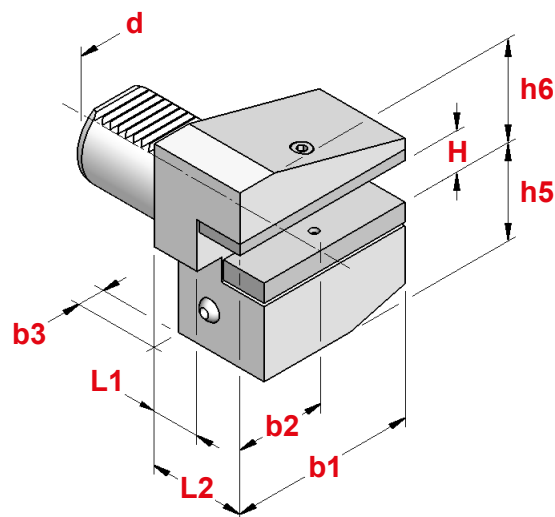


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B3 - 16x12x24	5654	16	42	23,0	5,0	12	13	24
B3 - 16x12x34	5655						23	34
B3 - 20x16x30	5657	20	55	30,0	7,0	16/12	16	30
B3 - 20x16x40	5658						26	40
B3 - 30x20x40	5621	30	70	35,0	10,0	20/16	22	40
B3 - 30x20x60	5662						42	60
B3 - 40x25x44	5663	40	85	42,5	12,5	25/20	22	44
B3 - 50x32x55	5797	50	100	50,0	16,0	32/25	30	55
B3 - 60x32x60	9361	60	125	62,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE ROVESCIA TI SINISTRI CORTI
RADIAL UPSIDE-DOWN TOOLHOLDERS - LEFT HAND - SHORT TYPE

B4

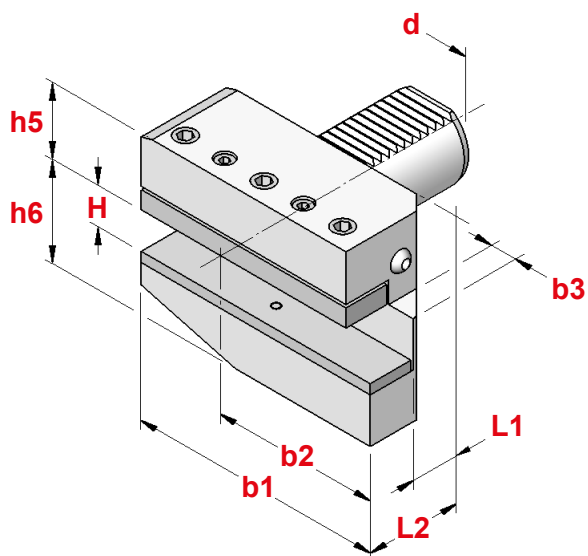


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B4 - 16x12x24	9326	16	42	23,0	5,0	12	13	24
B4 - 16x12x34	9327						23	34
B4 - 20x16x30	5664	20	55	30,0	7,0	16/12	16	30
B4 - 20x16x40	5665						26	40
B4 - 30x20x40	5627	30	70	35,0	10,0	20/16	22	40
B4 - 30x20x60	5647						42	60
B4 - 40x25x44	5670	40	85	42,5	12,5	25/20	22	44
B4 - 50x32x55	5798	50	100	50,0	16,0	32/25	30	55
B4 - 60x32x60	9362	60	125	62,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE DESTRI LUNGHI
RADIAL TOOLHOLDERS - RIGHT HAND - LONG TYPE

B5

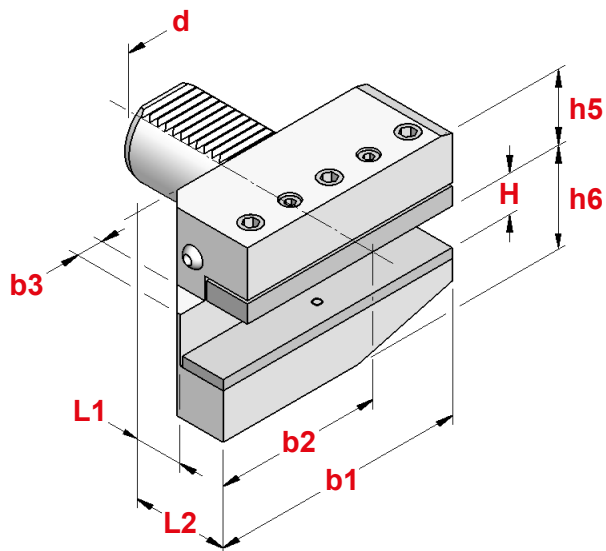


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B5 - 16x12x24	9328	16	58	39,0	5,0	12	13	24
B5 - 16x12x34	9329						23	34
B5 - 20x16x30	5671	20	75	50,0	7,0	16/12	16	30
B5 - 20x16x40	5687						26	40
B5 - 30x20x40	5620	30	100	65,0	10,0	20/16	22	40
B5 - 30x20x60	5648						42	60
B5 - 40x25x44	5677	40	118	75,5	12,5	25/20	22	44
B5 - 50x32x55	5802	50	130	80,0	16,0	32/25	30	55
B5 - 60x32x60	9363	60	145	82,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE SINISTRI LUNGHI
RADIAL TOOLHOLDERS - LEFT HAND - LONG TYPE

B6

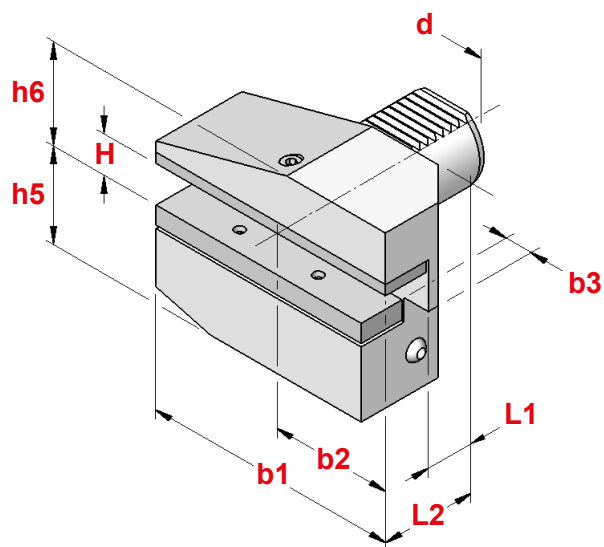


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B6 - 16x12x24	9330	16	58	39,0	5,0	12	13	24
B6 - 16x12x34	9331						23	34
B6 - 20x16x30	5678	20	75	50,0	7,0	16/12	16	30
B6 - 20x16x40	5688						26	40
B6 - 30x20x40	5619	30	100	65,0	10,0	20/16	22	40
B6 - 30x20x60	5682						42	60
B6 - 40x25x44	5684	40	118	75,5	12,5	25/20	22	44
B6 - 50x32x55	5791	50	130	80,0	16,0	32/25	30	55
B6 - 60x32x60	9364	60	145	82,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE ROVESCIA TI DESTRI LUNGHI
RADIAL UPSIDE-DOWN TOOLHOLDERS - RIGHT HAND - LONG TYPE

B7

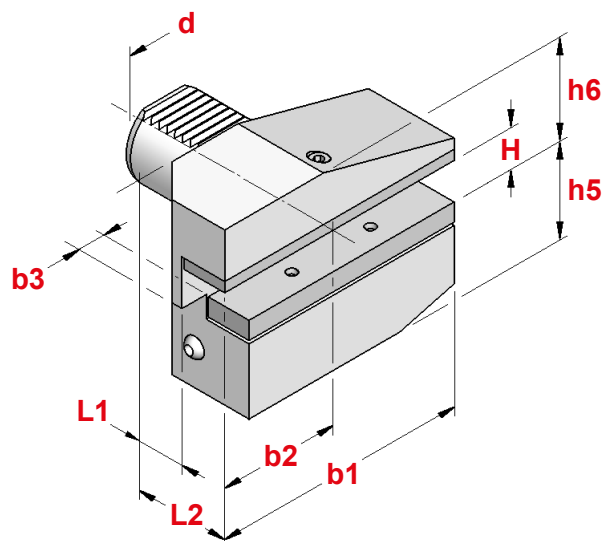


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B7 - 16x12x24	9332	16	58	39,0	5,0	12	13	24
B7 - 16x12x34	9333						23	34
B7 - 20x16x30	5685	20	75	50,0	7,0	16/12	16	30
B7 - 20x16x40	5686						26	40
B7 - 30x20x40	5689	30	100	65,0	10,0	20/16	22	40
B7 - 30x20x60	5699						42	60
B7 - 40x25x44	5692	40	118	75,5	12,5	25/20	22	44
B7 - 50x32x55	5803	50	130	80,0	16,0	32/25	30	55
B7 - 60x32x60	9365	60	145	82,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE TRASVERSALE ROVESCIA TI SINISTRI LUNGHI
RADIAL UPSIDE-DOWN TOOLHOLDERS - LEFT HAND - LONG TYPE

B8

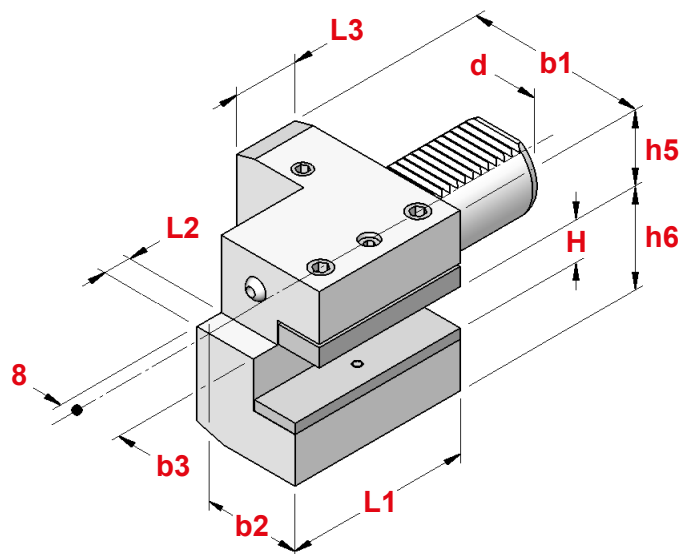


TIPO	Art.	d	b1	b2	b3	H	L1	L2
B8 - 16x12x24	9334	16	58	39,0	5,0	12	13	24
B8 - 16x12x34	9335						23	34
B8 - 20x16x30	5693	20	75	50,0	7,0	16/12	16	30
B8 - 20x16x40	5745						26	40
B8 - 30x20x40	5697	30	100	65,0	10,0	20/16	22	40
B8 - 30x20x60	5698						42	60
B8 - 40x25x44	5700	40	118	75,5	12,5	25/20	22	44
B8 - 50x32x55	5804	50	130	80,0	16,0	32/25	30	55
B8 - 60x32x60	9366	60	145	82,5	16,0	32/25	30	60

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE LONGITUDINALE DESTRI
AXIAL TOOLHOLDERS - RIGHT HAND

C1

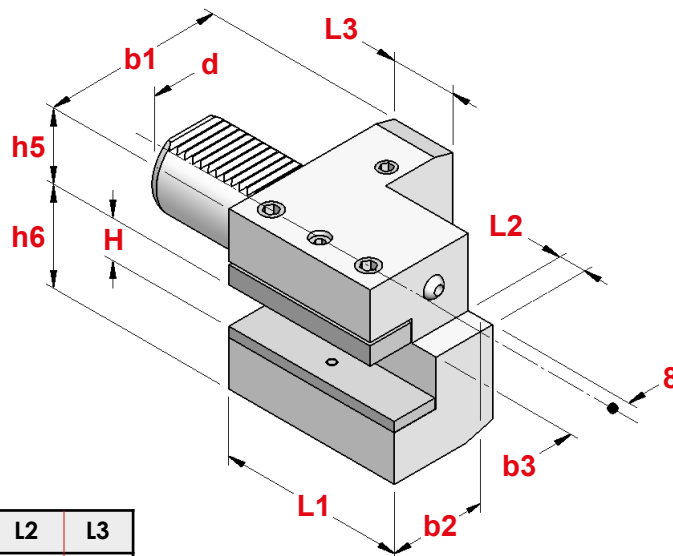


TIPO	Art.	d	b1	b2	b3	H	L1	L2	L3
C1- 16x12x44	5702	16	43	24,0	13,0	12	44	5,0	20
C1- 20x16x50	5704	20	65	40,0	26,0	16/12	50	—	30
C1- 20x16x55	5701	20	52	27,0	13,0	16/12	55	7,0	30
C1- 30x20x70	5703	30	70	35,0	17,0	20/16	70	10,0	30
C1- 40x25x85	5705	40	85	42,5	21,0	25/20	85	12,5	30
C1- 50x32x100	5806	50	100	50,0	26,0	32/25	100	16,0	40
C1- 60x32x125	9367	60	125	62,5	33,0	32/25	125	16,0	40

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE LONGITUDINALE SINISTRI
AXIAL TOOLHOLDERS - LEFT HAND

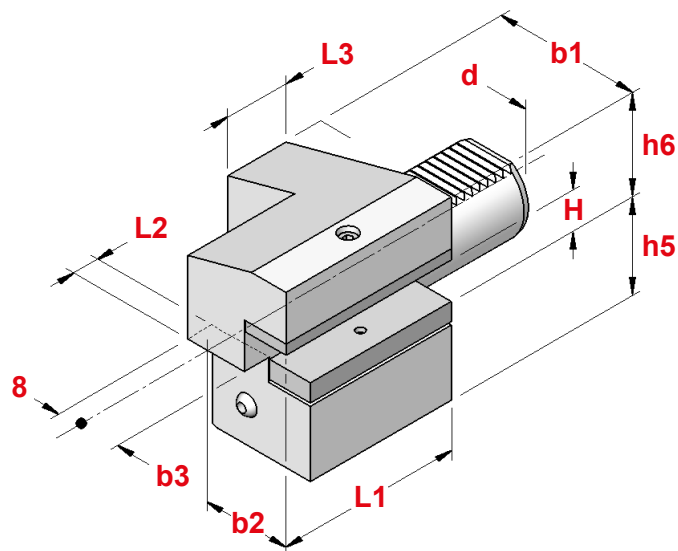
C2



TIPO	Art.	d	b1	b2	b3	H	L1	L2	L3
C2- 16x12x44	5707	16	43	24,0	13,0	12	44	5,0	20
C2- 20x16x50	5722	20	65	40,0	26,0	16/12	50	—	30
C2- 30x20x70	5724	30	76	41,0	23,0	20/16	70	10,0	30
C2- 40x25x85	5727	40	90	47,5	25,5	25/20	85	12,5	30
C2- 50x32x100	5807	50	105	55,0	30,5	32/25	100	16,0	40
C2- 60x32x125	9368	60	125	62,5	33,0	32/25	125	16,0	40

**VDI
DIN 69880**

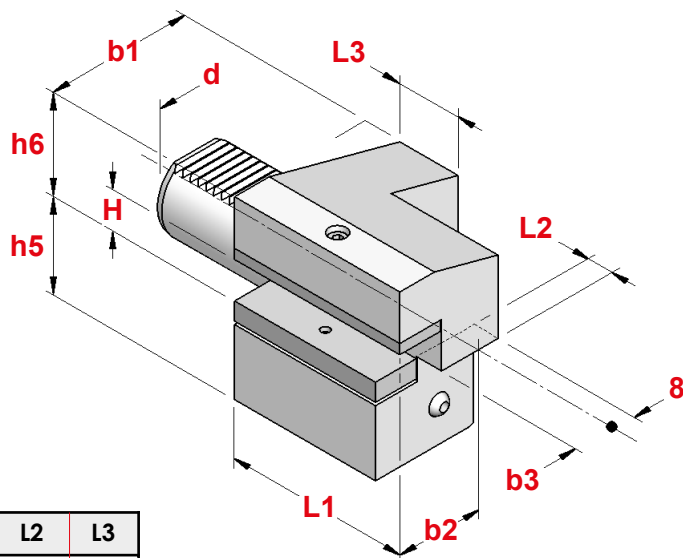
PORTAUTENSILI CON SEDE LONGITUDINALE ROVESCIAI DESTRI
AXIAL UPSIDE-DOWN TOOLHOLDERS - RIGHT HAND



TIPO	Art.	d	b1	b2	b3	H	L1	L2	L3
C3- 16x12x44	5716	16	43	24,0	13,0	12	44	5,0	20
C3- 20x16x50	5736	20	65	40,0	26,0	16/12	50	—	30
C3- 20x16x55	5737	20	52	27,0	13,0	16/12	55	7,0	30
C3- 30x20x70	5740	30	70	35,0	17,0	20/16	70	10,0	30
C3- 40x25x85	5742	40	85	42,5	21,0	25/20	85	12,5	30
C3- 50x32x100	5808	50	100	50,0	26,0	32/25	100	16,0	40
C3- 60x32x125	9369	60	125	62,5	33,0	32/25	125	16,0	40

**VDI
DIN 69880**

PORTAUTENSILI CON SEDE LONGITUDINALE ROVESCIAI SINISTRI
AXIAL UPSIDE-DOWN TOOLHOLDERS - LEFT HAND

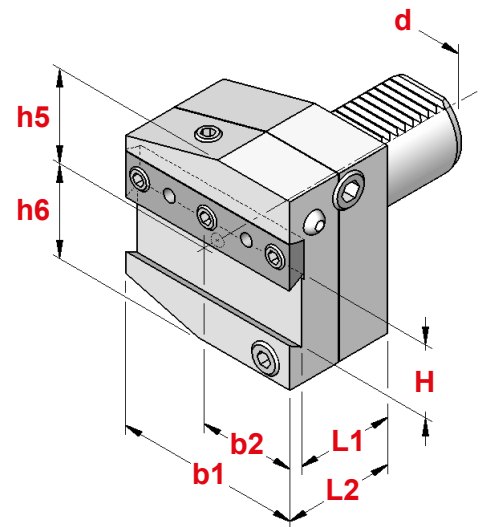


TIPO	Art.	d	b1	b2	b3	H	L1	L2	L3
C4- 16x12x44	5614	16	43	24,0	13,0	12	44	5,0	20
C4- 20x16x50	5743	20	65	40,0	26,0	16/12	50	—	30
C4- 30x20x70	5618	30	76	41,0	23,0	20/16	70	10,0	30
C4- 40x25x85	5746	40	90	47,5	25,5	25/20	85	12,5	30
C4- 50x32x100	5809	50	105	55,0	30,5	32/25	100	16,0	40
C4- 60x32x125	9370	60	125	62,5	33,0	32/25	125	16,0	40

**VDI
DIN 69880**

PORTAUTENSILI REGOLABILI CON SEDE PER LAMA DA TAGLIO DESTRI
TOOLHOLDERS FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT - RIGHT HAND

CUT 1

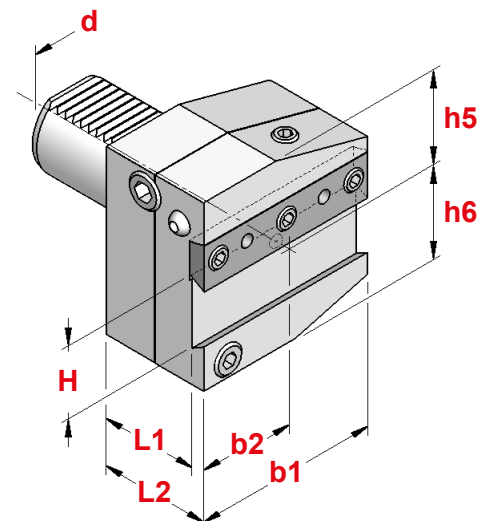


TIPO	Art.	d	b1	b2	H	h5	h6	L1	L2
CUT1-20x26	7917	20	60	30,0	26	28	36,0	44	50
CUT1-30x26	7918	30	70	35,0	26	32	39,0	44	50
CUT1-40x26	7919	40	85	42,5	26	43	41,5	44	50
CUT1-40x32	7920	40	85	42,5	32	43	41,5	44	50
CUT1-50x26	7921	50	100	50,0	26	43	45,0	44	50
CUT1-50x32	7922	50	100	50,0	32	43	45,0	44	50
CUT1-60x32	7923	60	125	62,5	32	48	55,0	44	50

**VDI
DIN 69880**

PORTAUTENSILI REGOLABILI CON SEDE PER LAMA DA TAGLIO SINISTRI
TOOLHOLDERS FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT - LEFT HAND

CUT 2

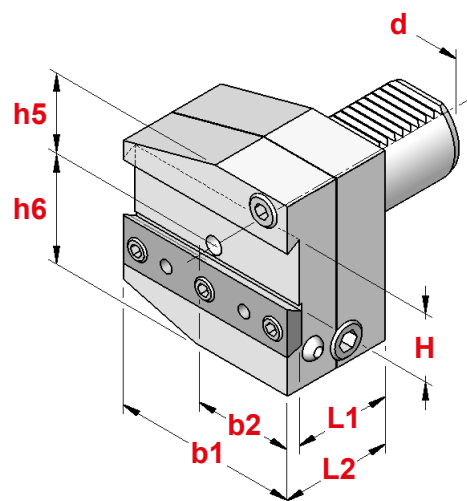


TIPO	Art.	d	b1	b2	H	h5	h6	L1	L2
CUT2-20x26	7924	20	60	30,0	26	28	36,0	44	50
CUT2-30x26	7925	30	70	35,0	26	32	39,0	44	50
CUT2-40x26	7926	40	85	42,5	26	43	41,5	44	50
CUT2-40x32	7927	40	85	42,5	32	43	41,5	44	50
CUT2-50x26	7928	50	100	50,0	26	43	45,0	44	50
CUT2-50x32	7929	50	100	50,0	32	43	45,0	44	50
CUT2-60x32	7930	60	125	62,5	32	48	55,0	44	50

**VDI
DIN 69880**

**PORTAUTENSILI REGOLABILI CON SEDE PER LAMA DA TAGLIO
ROVESCIA TI DESTRI**
UPSIDE-DOWN TOOLHOLDERS FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT - RIGHT HAND

CUT 3

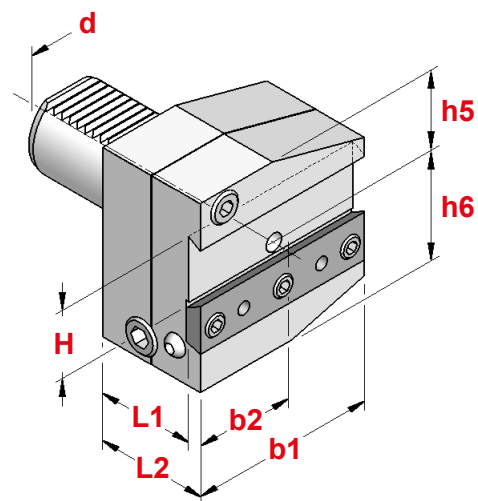


TIPO	Art.	d	b1	b2	H	h5	h6	L1	L2
CUT3-30x26	7931	30	70	35,0	26	38	35,0	44	50
CUT3-40x26	7932	40	85	42,5	26	43	41,5	44	50
CUT3-40x32	7933	40	85	42,5	32	43	41,5	44	50
CUT3-50x26	7934	50	100	50,0	26	43	45,0	44	50
CUT3-50x32	7935	50	100	50,0	32	43	45,0	44	50
CUT3-60x32	7936	60	125	62,5	32	48	55,0	44	50

**VDI
DIN 69880**

**PORTAUTENSILI REGOLABILI CON SEDE PER LAMA DA TAGLIO
ROVESCIA TI SINISTRI**
UPSIDE-DOWN TOOLHOLDERS FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT - LEFT HAND

CUT 4

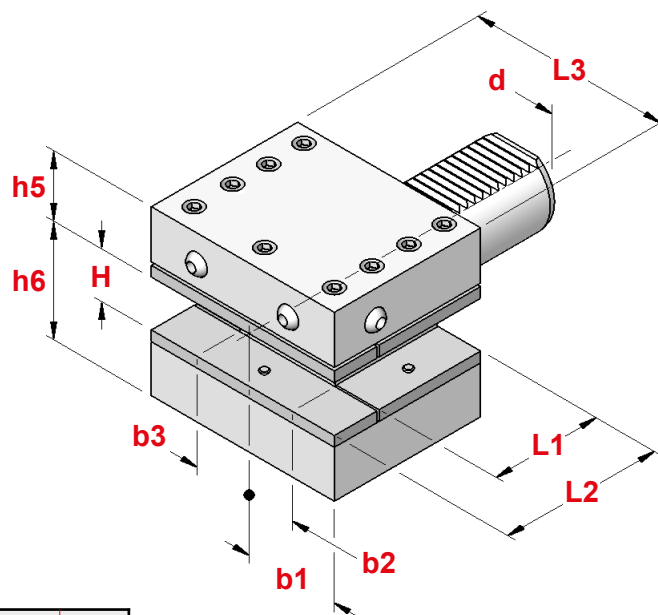


TIPO	Art.	d	b1	b2	H	h5	h6	L1	L2
CUT4-30x26	7937	30	70	35,0	26	38	35,0	44	50
CUT4-40x26	7938	40	85	42,5	26	43	41,5	44	50
CUT4-40x32	7939	40	85	42,5	32	43	41,5	44	50
CUT4-50x26	7940	50	100	50,0	26	43	45,0	44	50
CUT4-50x32	7941	50	100	50,0	32	43	45,0	44	50
CUT4-60x32	7942	60	125	62,5	32	48	55,0	44	50

**VDI
DIN 69880**

PORTAUTENSILI A PIU' SEDI RETTANGOLARI
TOOLHOLDERS WITH MULTIPLE SEATS

D1

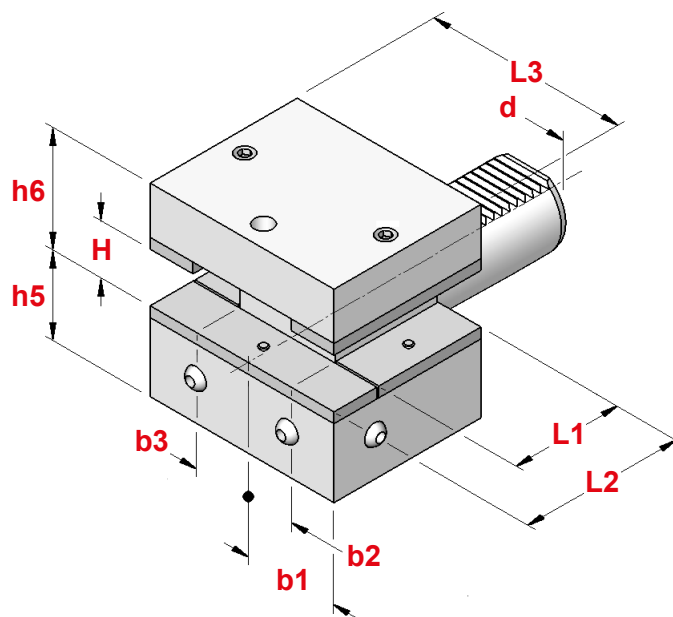


TIPO	Art.	d	b1	b2	b3	H	L1	L2	L3
D1- 30x20x60	5748	30	35,0	17	23,0	20/16	42	60	76
D1- 40x25x72	5750	40	42,5	21	25,5	25/20	50	72	90
D1- 50x32x85	5810	50	50,0	26	30,5	32/25	60	85	105
D1- 60x32x110	9371	60	57,5	33	33,0	32/25	85	110	115

**VDI
DIN 69880**

PORTAUTENSILI A PIU' SEDI RETTANGOLARI ROVESCIA TI
UPSIDE-DOWN TOOLHOLDERS WITH MULTIPLE SEATS

D2

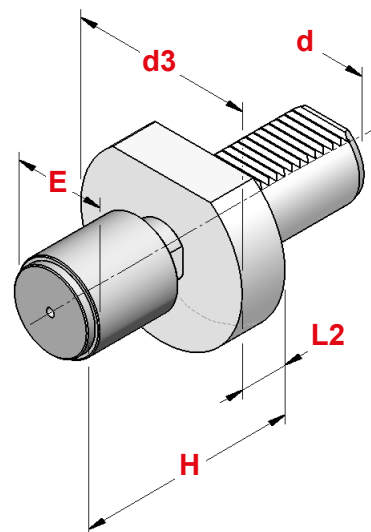


TIPO	Art.	d	b1	b2	b3	H	L1	L2	L3
D2- 30x20x60	5752	30	35,0	17	23,0	20/16	42	60	76
D2- 40x25x72	5754	40	42,5	21	25,5	25/20	50	72	90
D2- 50x32x85	5811	50	50,0	26	30,5	32/25	60	85	105
D2- 60x32x110	9372	60	57,5	33	33,0	32/25	85	110	115

**VDI
DIN 69880**

FERMOBARRA ROTANTI REGOLABILI
ROTARY ADJUSTABLE BAR-STOP

BS 1

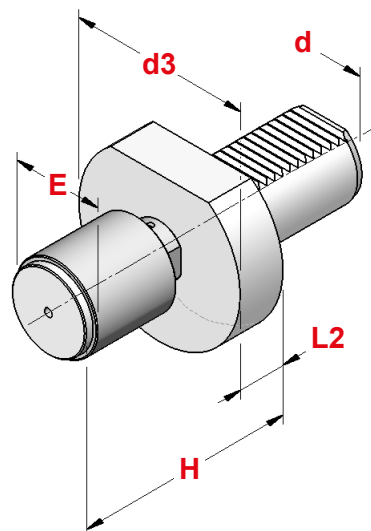


TIPO	Art.	d	H	d3	L2	E
BS 1 - 20 x 34	7943	20	74 - 87	50	30	34
BS 1 - 20 x 42	7944	20	82 - 95	50	30	42
BS 1 - 30 x 42	7945	30	68 - 100	68	16	42
BS 1 - 30 x 56	7946	30	68 - 100	68	16	56
BS 1 - 40 x 42	7947	40	74 - 100	83	22	42
BS 1 - 40 x 56	7948	40	74 - 100	83	22	56
BS 1 - 50 x 42	7949	50	82 - 110	98	30	42
BS 1 - 50 x 56	7950	50	82 - 110	98	30	56

**VDI
DIN 69880**

FERMOBARRA ROTANTI REGOLABILI AMMORTIZZATI
DAMPED ROTARY ADJUSTABLE BAR-STOP

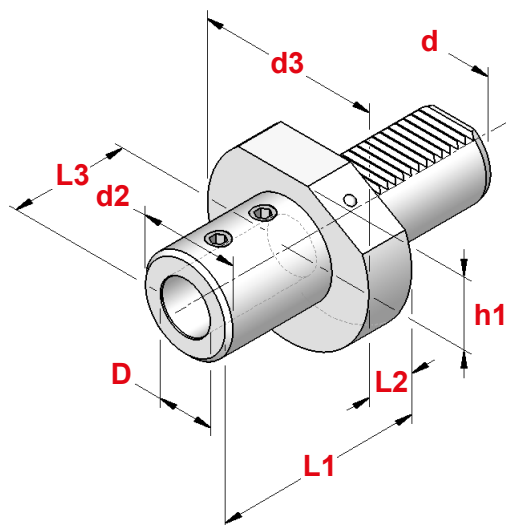
BS 2



TIPO	Art.	d	H	d3	L2	E
BS 2 - 20 x 34	5787	20	82 - 95	50	30	34
BS 2 - 20 x 42	5788	20	82 - 95	50	30	42
BS 2 - 30 x 42	5789	30	68 - 100	68	16	42
BS 2 - 30 x 56	3586	30	68 - 100	68	16	56
BS 2 - 40 x 42	5790	40	74 - 100	83	22	42
BS 2 - 40 x 56	3587	40	74 - 100	83	22	56
BS 2 - 50 x 42	5832	50	82 - 110	98	30	42
BS 2 - 50 x 56	3588	50	82 - 110	98	30	56

CARATTERISTICHE: a differenza del normale fermobarra rotante, nel modello ammortizzato, oltre al cuscinetto radiale ed al reggispinta, è presente una serie di molle a tazza per meglio assorbire eventuali urti della barra.

CHARACTERISTICS: unlike normal rotary bar stop, inside damped model, besides radial bearing and thrust bearing, there is a set of spring washers in order to absorb well any bar shoves.



TIPO	Art.	d	d2	D	L1	L2	L3	
E1-20x6*	9343	20	25	6	50	18	36	4970
E1-20x8*	9344	20	28	8	50	18	36	4971
E1-20x10*	9345	20	35	10	54	18	40	4972
E1-20x12*	9346	20	42	12	59	18	45	4973
E1-20x16	5728	20	36	16	67	18	54	0403
E1-20x20	5729	20	40	20	67	18	54	0403
E1-20x25	5730	20	45	25	71	18	58	0417
E1-30x6*	9347	30	25	6	50	22	36	4970
E1-30x8*	9348	30	28	8	50	22	36	4971
E1-30x10*	9349	30	35	10	54	22	40	4972
E1-30x12*	9350	30	42	12	59	22	45	4973
E1-30x16	5731	30	36	16	67	22	54	0403
E1-30x20	5732	30	40	20	67	22	54	0403
E1-30x25	5733	30	45	25	71	22	58	0417
E1-30x32	5734	30	52	32	75	22	61	0417
E1-30x40	5735	30	65	40	90	22	72	0493
E1-40x6*	9351	40	25	6	50	22	36	4970
E1-40x8*	9352	40	28	8	50	22	36	4971
E1-40x10*	9353	40	35	10	54	22	40	4972
E1-40x12*	9354	40	42	12	58	22	45	4973
E1-40x16	5833	40	36	16	67	22	54	0403
E1-40x20	5834	40	40	20	67	22	54	0403
E1-40x25	5835	40	45	25	75	22	59	0417
E1-40x32	5836	40	52	32	75	22	61	0417
E1-40x40	5837	40	65	40	90	22	73	0493
E1-40x50	9355	40	70	50	100	22	83	0493
E1-50x16	5838	50	36	16	80	30	54	0403
E1-50x20	5839	50	40	20	80	30	54	0403
E1-50x25	5840	50	45	25	80	30	59	0417
E1-50x32	5841	50	52	32	80	30	63	0417
E1-50x40	5842	50	65	40	90	30	73	0493
E1-50x50	5843	50	75	50	100	30	83	0493
E1-60x16	9373	60	36	16	80	30	54	0403
E1-60x20	9374	60	40	20	80	30	54	0403
E1-60x25	9375	60	45	25	80	30	59	0417
E1-60x32	9376	60	52	32	80	30	63	0417
E1-60x40	9377	60	65	40	90	30	73	0493
E1-60x50	9378	60	75	50	100	30	83	0493

* = L'asse del grano di bloccaggio utensile è inclinato di 2° al fine di migliorarne il presettaggio

* = Tool locking screw axis is 2° inclined in order to improve its presetting.

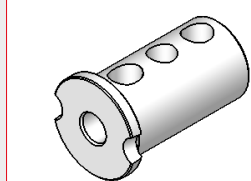
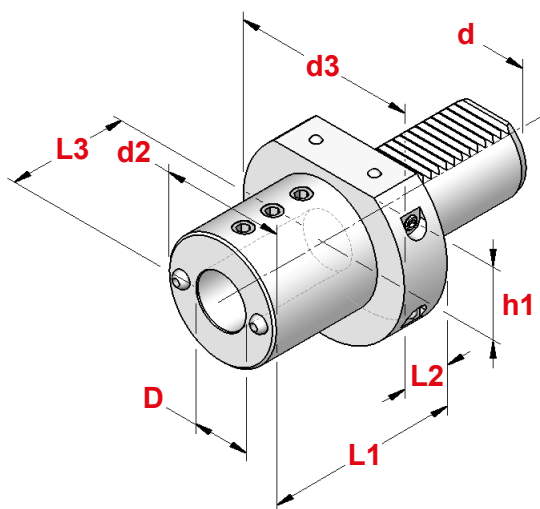
Dove trovare questi Articoli
Where to find those Items



Grani di bloccaggio - pag. 197
Locking screws - page 197



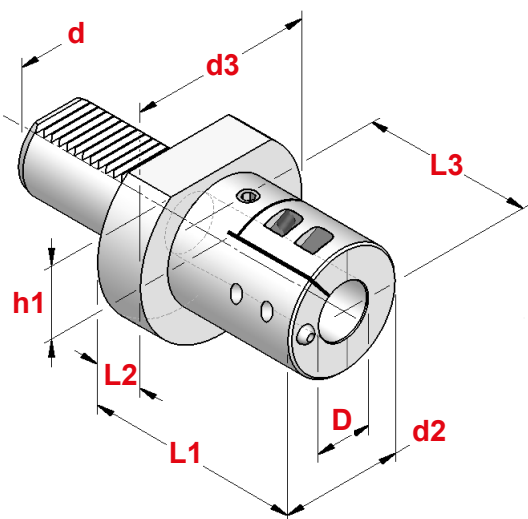
E2



**Bussole di riduzione per
Portabareni tipo E2
pag. 224**

*Reduction sleeves for
Boring bar holders E2 type
page 224*

TIPO	Art.	d	d2	D	L1	L2	L3	
E2-16x6	9336	16	32	6	44	13	34	0371
E2-16x8	9337	16	32	8	44	13	34	0371
E2-16x10	9338	16	32	10	44	13	34	0371
E2-16x12	9339	16	40	12	44	13	34	0375
E2-16x16	9340	16	40	16	44	13	34	0375
E2-20x6	5725	20	40	6	50	18	42	0208
E2-20x8	5762	20	40	8	50	18	42	0208
E2-20x10	5763	20	40	10	50	18	42	0382
E2-20x12	5764	20	40	12	50	18	42	0382
E2-20x16	5765	20	42	16	50	18	42	0375
E2-20x20	5766	20	49	20	50	18	42	0375
E2-20x25	5767	20	49	25	60	18	52	4971
E2-30x6	5741	30	55	6	60	22	43	0248
E2-30x8	5768	30	55	8	60	22	43	0248
E2-30x10	5769	30	55	10	60	22	43	0248
E2-30x12	5631	30	55	12	60	22	43	0183
E2-30x16	5632	30	55	16	60	22	55	0183
E2-30x20	5633	30	55	20	60	22	54	0382
E2-30x25	5622	30	55	25	60	22	54	0382
E2-30x30	5623	30	67	30	75	22	61	0382
E2-30x32	5629	30	67	32	75	22	61	0382
E2-30x40	5628	30	67	40	75	22	66	0382
E2-40x6	5747	40	55	6	75	22	43	0248
E2-40x8	5749	40	55	8	75	22	43	0183
E2-40x10	5751	40	55	10	75	22	43	0183
E2-40x12	5770	40	55	12	75	22	58	0183
E2-40x16	5771	40	55	16	75	22	61	0186
E2-40x20	5772	40	55	20	75	22	61	0377
E2-40x25	5773	40	55	25	75	22	61	0186
E2-40x30	5786	40	82	30	75	22	61	0377
E2-40x32	5774	40	82	32	75	22	61	0186
E2-40x40	5775	40	82	40	90	22	76	0377
E2-40x50	5785	40	98	50	100	—	86	0260
E2-50x12	5805	50	68	12	90	30	71	0249
E2-50x16	5812	50	68	16	90	30	76	0250
E2-50x20	5813	50	68	20	90	30	76	0257
E2-50x25	5814	50	68	25	90	30	76	0257
E2-50x30	5801	50	69	30	90	30	76	0277
E2-50x32	5815	50	69	32	90	30	76	0277
E2-50x40	5816	50	98	40	90	—	76	4973
E2-50x50	5817	50	98	50	100	—	86	0260
E2-60x16	9379	60	68	16	90	30	76	0250
E2-60x20	9380	60	68	20	90	30	76	0257
E2-60x25	9381	60	68	25	90	30	76	0257
E2-60x32	9382	60	68	32	90	30	76	0277
E2-60x40	9383	60	98	40	90	30	76	0277
E2-60x50	9384	60	98	50	100	30	86	4973



TIPO	Art.	d	d2	D	L1	L2	L3	
ES 2 - 30x 6	7951	30	32	6	75	22	65	0371
ES 2 - 30x 8	7952	30	34	8	75	22	65	0371
ES 2 - 30x 10	7953	30	38	10	75	22	65	0375
ES 2 - 30x 12	7954	30	38	12	75	22	65	0375
ES 2 - 30x 16	7955	30	42	16	75	22	70	4972
ES 2 - 30x 20	7956	30	42	20	75	22	66	4972
ES 2 - 30x 25	7957	30	48	25	75	22	66	4972
ES 2 - 30x 32	7958	30	56	32	75	22	65	4972
ES 2 - 30x 40	7959	30	65	40	75	22	67	0390
ES 2 - 40x 6	7960	40	32	6	75	22	65	0371
ES 2 - 40x 8	7961	40	34	8	75	22	65	0371
ES 2 - 40x 10	7962	40	38	10	75	22	65	0375
ES 2 - 40x 12	7963	40	38	12	75	22	65	0375
ES 2 - 40x 16	7964	40	42	16	75	22	68	4972
ES 2 - 40x 20	7965	40	42	20	85	22	80	4972
ES 2 - 40x 25	7966	40	48	25	85	22	76	4972
ES 2 - 40x 32	7967	40	56	32	85	22	76	4972
ES 2 - 40x 40	7968	40	65	40	97	22	90	0390
ES 2 - 50x 16	7969	50	42	16	93	30	85	4972
ES 2 - 50x 20	7970	50	42	20	93	30	85	4972
ES 2 - 50x 25	7971	50	48	25	98	30	90	4972
ES 2 - 50x 32	7972	50	56	32	98	30	90	4972
ES 2 - 50x 40	7973	50	65	40	115	30	105	0390
ES 2 - 50x 50	7974	50	76	50	125	30	112	0390
ES 2 - 60x 25	7975	60	48	25	98	30	90	4972
ES 2 - 60x 32	7976	60	56	32	98	30	90	4972
ES 2 - 60x 40	7977	60	65	40	115	30	105	0390
ES 2 - 60x 50	7978	60	76	50	125	30	112	0390

CARATTERISTICHE

- La chiusura a collare favorisce il fissaggio di utensili particolarmente lunghi e risulta adatta a barení antivibranti in metallo duro
- Fissaggio effettuato con 3 viti : una direttamente sul piano mentre le altre due stringono a collare lo stelo cilindrico.
- Frontalmente viene tracciata la riga di riferimento per posizionare i barení con stelo totalmente cilindrico.

CHARACTERISTICS

- Collar gripping helps clamping of particularly long tools and turns out suitable for vibration-damping boring bars with hard metal shank.
- Fixing occurs by 3 screws : one directly on flat on the shank, differently the other two grip the cylindrical shank as collar.
- On the front is engraved the reference mark to set boring bars with completely cylindrical shank.

Dove trovare questi Articoli
Where to find those Items

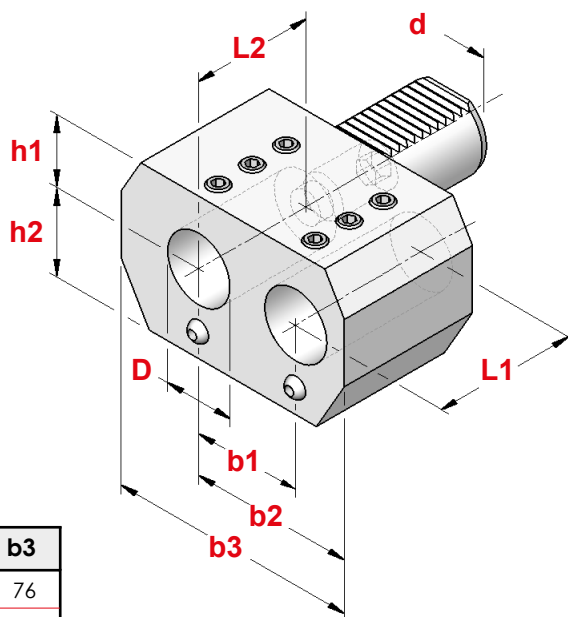


Grani di bloccaggio - pag. 197
Locking screws - page 197

**VDI
DIN 69880**

PORTABARENI DOPPI DESTRI
DOUBLE BORING BAR HOLDERS - RIGHT HAND

ES 7

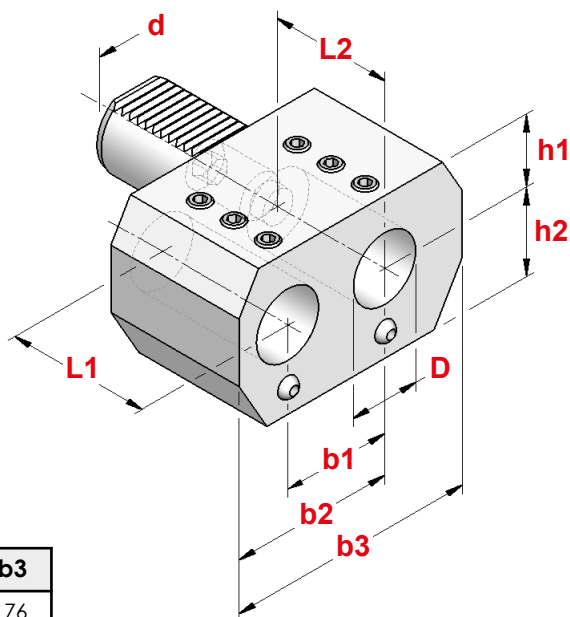


TIPO	Art.	d	D	h1	h2	L1	L2	b1	b2	b3
ES 7 - 20x16	7979	20	16	25,0	25,0	45	42	32	51	76
ES 7 - 20x20	7980	20	20	25,0	25,0	45	42	32	51	76
ES 7 - 30x25	7981	30	25	28,0	32,0	56	52	45	65	95
ES 7 - 40x32	7982	40	32	32,5	40,0	66	60	50	75	115
ES 7 - 50x32	7983	50	32	32,5	47,5	66	60	50	75	115
ES 7 - 50x50	7984	50	50	35,0	49,0	90	80	68	103	152

**VDI
DIN 69880**

PORTABARENI DOPPI SINISTRI
DOUBLE BORING BAR HOLDERS - LEFT HAND

ES 8



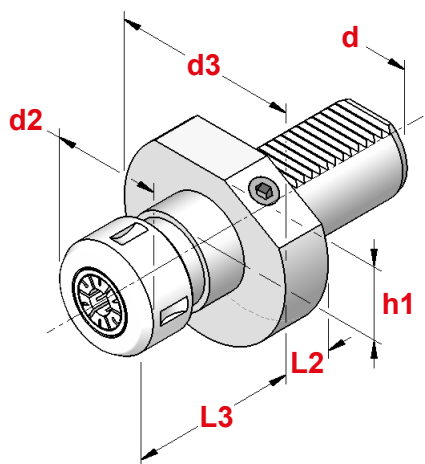
TIPO	Art.	d	D	h1	h2	L1	L2	b1	b2	b3
ES 8 - 20x16	7985	20	16	25,0	25,0	45	42	32	51	76
ES 8 - 20x20	7986	20	20	25,0	25,0	45	42	32	51	76
ES 8 - 30x25	7987	30	25	28,0	32,0	56	52	45	65	95
ES 8 - 40x32	7988	40	32	32,5	40,0	66	60	50	75	115
ES 8 - 50x32	7989	50	32	32,5	47,5	66	60	50	75	115
ES 8 - 50x50	7990	50	50	35,0	49,0	90	80	68	103	152

VDI DIN 69880

PORTAPINZE PER PINZE EOC DIN 6388 DIN 6388 COLLET CHUCKS



E3



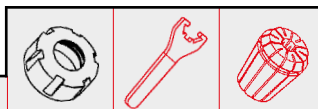
TIPO	Art.	d	d2	CAPACITA'	L2	L3			
E3-16x16	5609	16	43	2 ÷ 16	13	44	4067	2883	0768
E3-20x16	5610	20	43	2 ÷ 16	18	39	4067	2883	0768
E3-30x16	5611	30	43	2 ÷ 16	22	35	4067	2883	0768
E3-30x20	5612	30	52	2 ÷ 20	22	40	4008	2908	0783
E3-30x25	5613	30	60	2 ÷ 25	22	53	4068	2909	0769
E3-30x32	5626	30	72	4 ÷ 32	22	68	4069	2910	0770
E3-40x16	5282	40	43	2 ÷ 16	22	35	4067	2883	0768
E3-40x20	5283	40	52	2 ÷ 20	22	40	4008	2908	0783
E3-40x25	5645	40	60	2 ÷ 25	22	53	4068	2909	0769
E3-40x32	5646	40	72	4 ÷ 32	22	68	4069	2910	0770
E3-50x25	5652	50	60	2 ÷ 25	30	45	4068	2909	0769
E3-50x32	5653	50	72	4 ÷ 32	30	60	4069	2910	0770
E3-60x25	9385	60	60	2 ÷ 25	30	45	4068	2909	0769
E3-60x32	9386	60	72	4 ÷ 32	30	60	4069	2910	0770

Pinze EOC da pag. 28
DIN 6388 Collets from page 28

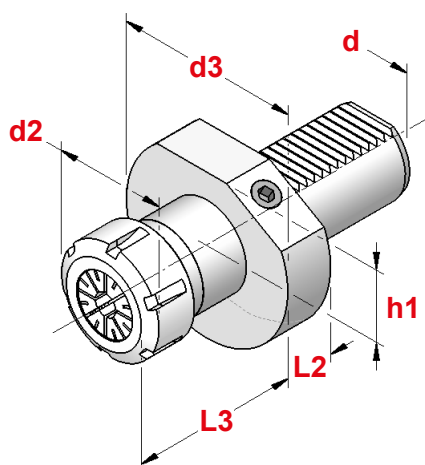


VDI DIN 69880

PORTAPINZE PER PINZE ER DIN 6499 DIN 6499 COLLET CHUCKS



E4



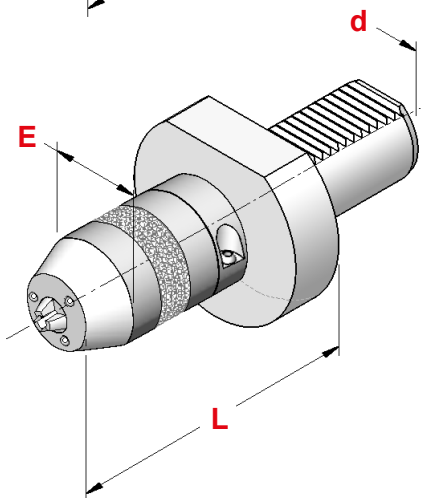
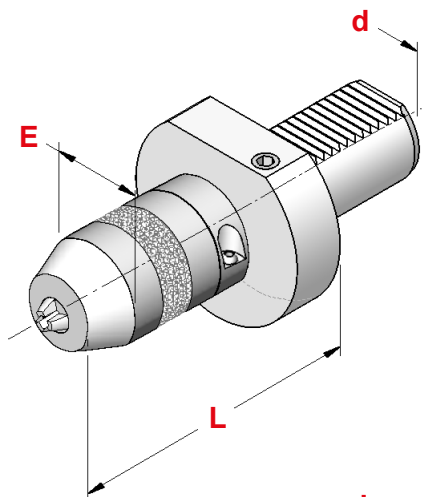
TIPO	Art.	d	d2	CAPACITA'	L2	L3			
E4-16x16	3076	16	32	1 ÷ 10	13	31	4993	3698	0364
E4-16x20	3078	16	35	1 ÷ 13	13	31	4994	3699	0787
E4-20x16	3547	20	32	1 ÷ 10	18	26	4993	3698	0364
E4-20x20	3303	20	35	1 ÷ 13	18	41	4994	3699	0787
E4-20x25	3304	20	42	1 ÷ 16	18	47	4995	3669	0996
E4-20x32	3549	20	50	2 ÷ 20	18	49	4996	3670	0988
E4-30x16	3550	30	32	1 ÷ 10	22	26	4993	3698	0364
E4-30x20	3551	30	35	1 ÷ 13	22	37	4994	3699	0787
E4-30x25	3305	30	42	1 ÷ 16	22	35	4995	3669	0996
E4-30x32	3306	30	50	2 ÷ 20	22	56	4996	3670	0988
E4-30x40	3307	30	63	3 ÷ 30	22	58	4997	3671	0821
E4-40x20	3553	40	35	1 ÷ 13	22	37	4994	3699	0787
E4-40x25	3554	40	42	1 ÷ 16	22	35	4995	3669	0996
E4-40x32	3308	40	50	2 ÷ 20	22	56	4996	3670	0988
E4-40x40	3309	40	63	3 ÷ 30	22	58	4997	3671	0821
E4-50x25	2304	50	42	1 ÷ 16	30	37	4995	3669	0996
E4-50x32	2320	50	50	2 ÷ 20	30	62	4996	3670	0988
E4-50x40	3311	50	63	3 ÷ 30	30	50	4997	3671	0821
E4-60x32	9387	60	50	2 ÷ 20	30	48	4996	3670	0988
E4-60x40	9388	60	63	3 ÷ 30	30	50	4997	3671	0821

Pinze ER da pag. 8
DIN 6499 Collets from page 8



VDI DIN 69880

AUTOSERRANTI CON PASSAGGIO CENTRALE DEL REFRIGERANTE MONOLITHIC DRILL CHUCKS WITH MIDDLE COOLING PASSING



TIPO	Art.	d	E	L	CAPACITA'	
VDI 20 - DCU 13 C	9303	20	50	88	1 ÷ 13	2372
VDI 30 - DCU 13 C	9304	30	50	93	1 ÷ 13	
VDI 30 - DCU 16 C	9305	30	50	98	3 ÷ 16	2372
VDI 40 - DCU 13 C	9306	40	50	93	1 ÷ 13	
VDI 40 - DCU 16 C	9307	40	50	98	3 ÷ 16	2372
VDI 50 - DCU 13 C	9308	50	50	100	1 ÷ 13	
VDI 50 - DCU 16 C	9309	50	50	105	3 ÷ 16	2372

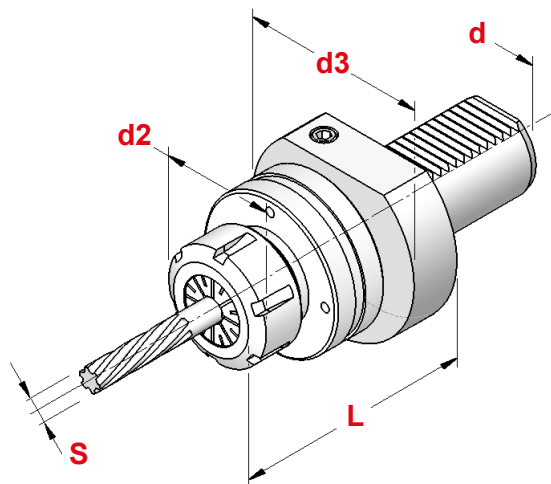
CON UGELLI DI REFRIGERAZIONE WITH COOLING NOZZLES

TIPO	Art.	d	E	L	CAPACITA'	
VDI 30 - DCU 13 E	9312	30	63	93	1 ÷ 13	2372
VDI 30 - DCU 16 E	9313	30	63	98	3 ÷ 16	
VDI 40 - DCU 13 E	9314	40	63	93	1 ÷ 13	2372
VDI 40 - DCU 16 E	9315	40	63	98	3 ÷ 16	
VDI 50 - DCU 13 E	9316	50	63	100	1 ÷ 13	2372
VDI 50 - DCU 16 E	9317	50	63	105	3 ÷ 16	

VDI DIN 69880

PORTA ALESATORI FLOTTANTI PER PINZE ER DIN 6499 FLOATING REAMER HOLDERS FOR DIN 6499 COLLETS

TIPO	Art.	d	d2	d3	S	L	CAPACITA'			
VDI 20 RM - ER 25	9300	20	42	57	1	57	1 ÷ 16	4995	3669	0996
VDI 30 RM - ER 32	9301	30	50	68	1,5	72	2 ÷ 20	4996	3670	0988
VDI 40 RM - ER 32	9302	40	50	83	1,5	74	2 ÷ 20	4996	3670	0988



Pinze ER da pag. 8

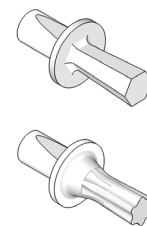
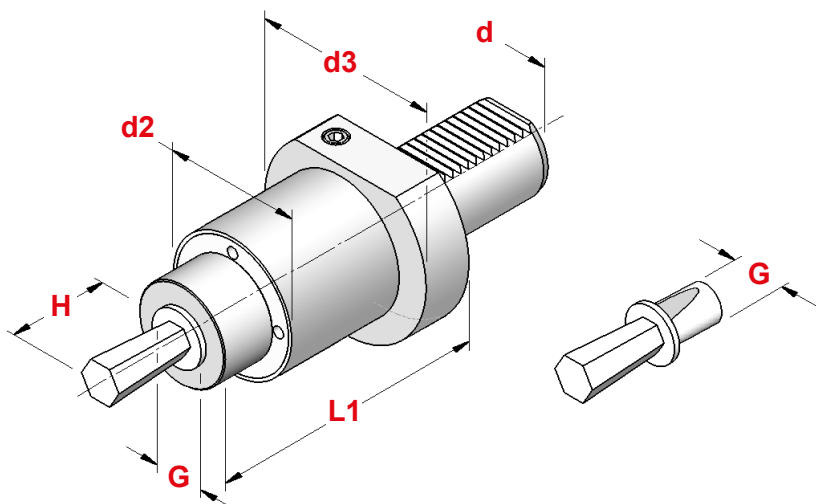
DIN 6499 Collets from page 8



VDI DIN 69880

PORTAUTENSILI A BROCCIARE BROACH TOOLHOLDERS

TIPO	Art.	d	d2	d3	G	L1	H
VDI 20 - G 12	9319	20	44	50	12	57	25
VDI 30 - G 12	9320	30	58	68	12	83	25
VDI 30 - G 16	9321	30	58	68	16	83	40
VDI 40 - G 12	9322	40	58	83	12	83	25
VDI 40 - G 16	9323	40	58	83	16	83	40



Potete trovare la gamma completa di Brocche a pag. 269

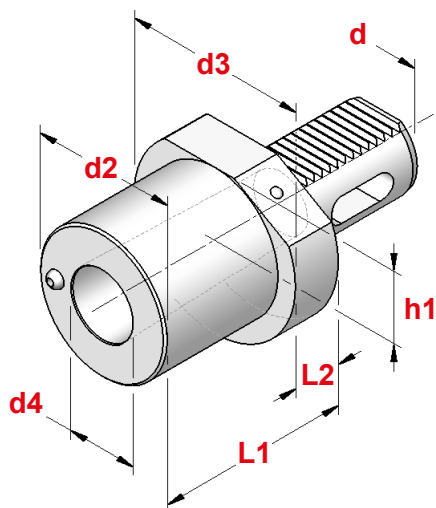
You can complete range of Broaches on page 269

VDI DIN 69880

PORTAUTENSILI CON SEDE CONO MORSE MORSE TAPER TOOLHOLDERS

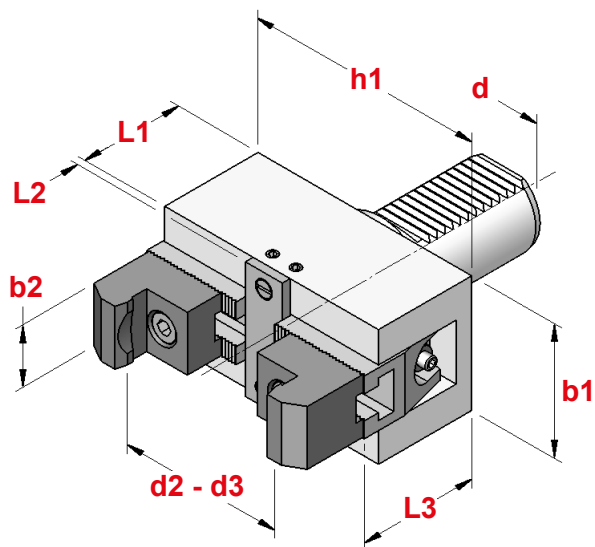


TIPO	Art.	d	d2	CM	d4	L1	L2
F 16-MK-D1	5709	16	—	1	12,065	31,5	—
F 16-MK-D2	5710	16	—	2	17,780	72,0	—
F 20-MK-D1	5776	20	—	1	12,065	23,0	—
F 20-MK-D2*	5792	20	45	2	17,780	41,0	22
F 30-MK-D1	5630	30	—	1	12,065	27,0	—
F 30-MK-D2	5625	30	55	2	17,780	36,0	27
F 30-MK-D3	5818	30	55	3	23,825	66,0	41
F 40-MK-D1	5723	40	55	1	12,065	23,0	22
F 40-MK-D2	5777	40	55	2	17,780	36,0	22
F 40-MK-D3	5778	40	58	3	23,825	36,0	22
F 40-MK-D4	5779	40	68	4	31,267	80,0	22
F 50-MK-D2	5819	50	55	2	17,780	36,0	30
F 50-MK-D3	5820	50	58	3	23,825	45,0	30
F 50-MK-D4	5821	50	68	4	31,267	55,0	30
F 50-MK-D5*	5949	50	75	5	44,399	72,0	30
F 60-MK-D2	9389	60	55	2	17,780	35,0	30
F 60-MK-D3	9390	60	58	3	23,825	45,0	30
F 60-MK-D4	9391	60	68	4	31,267	55,0	30
F 60-MK-D5	9392	60	98	5	44,399	64,0	30



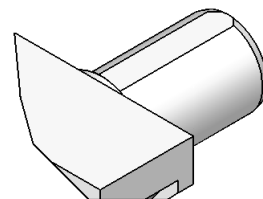
* = Per poter ospitare il Cono Morse indicato, il codolo cilindrico è privo di dentatura.

* = Without toothing.



TIPO	Art.	d	d2	d3	b1	b2	h1	L1	L2	L3
H1-16	5661	16	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1-20	5679	20	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1-30	5680	30	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1-40	5681	40	6 ÷ 66	54 ÷ 110	60	28	110	48	4	53
H1-50	5683	50	10 ÷ 75	62 ÷ 125	65	28	130	67	5	73
H1-60	9393	60	10 ÷ 75	62 ÷ 125	65	28	130	67	5	73

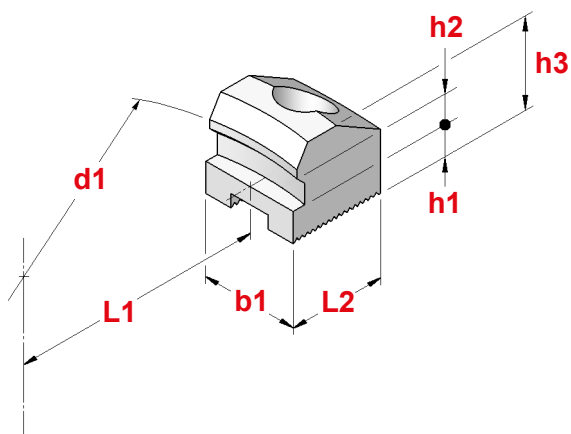
**CON ATTACCO CILINDRICO
Pag. 275**
WITH STRAIGHT SHANK



La confezione dello Stringibarra comprende 2 coppie di griffe per poter stringere l'intera gamma delle misure (d2-d3).

Bar Clamp wrapping includes 2 couples of jaws to allow clamping the complete range of dimensions (d2-d3).

**GRIFFE
JAWS**

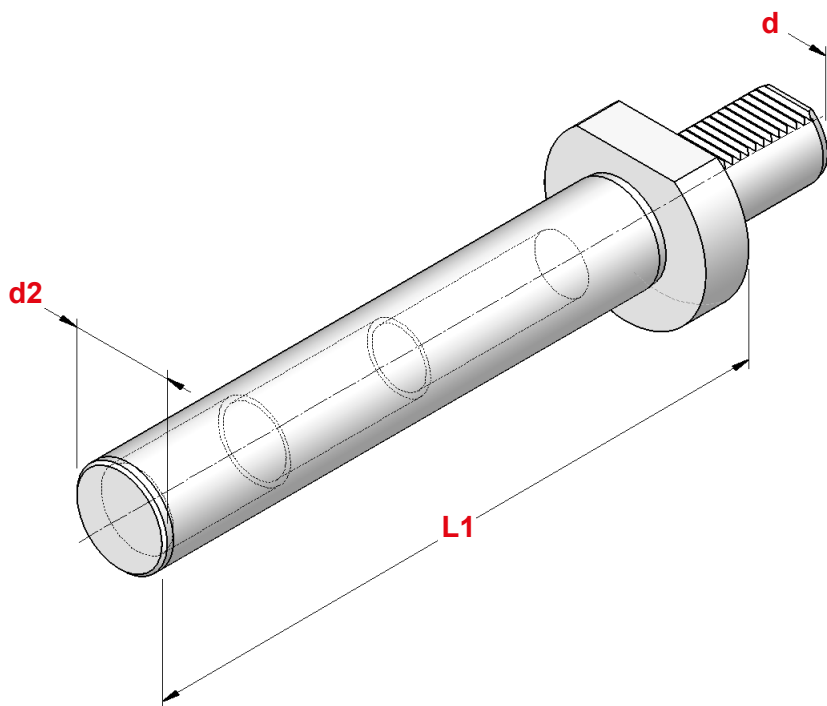


TIPO	Art.	d1	b1	L1	L2	h1	h2	h3
H1.10 30 - 40	5822	75	28	35	28	9	10	26
H1.11 30 - 40	5823	125	28	42	36	18	10	34
H1.10 50 - 60	5824	75	28	35	28	17	10	42
H1.11 50 - 60	5825	125	28	42	36	24	10	42

**VDI
DIN 69880**

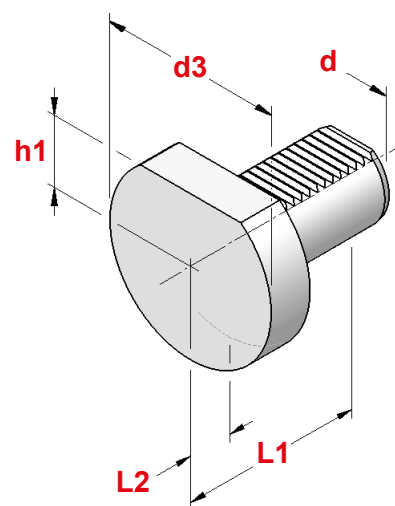
BARRE DI CONTROLLO
TEST ARBORS

TIPO	Art.	d	d2	L1
VDI 16	7894	16	25	200
VDI 20	7895	20	30	220
VDI 30	7896	30	40	230
VDI 40	7897	40	50	300
VDI 50	7898	50	50	300
VDI 60	7899	60	60	300

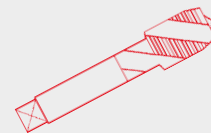


**VDI
DIN 69880**

TAMPONI DI PROTEZIONE IN PLASTICA O IN ACCIAIO
PLASTIC OR STEEL BLANKING PLUGS

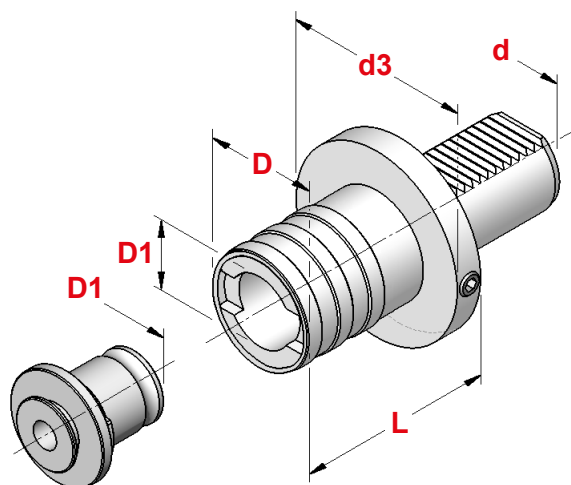


IN PLASTICA PLASTIC TYPE		IN ACCIAIO STEEL TYPE		d	d3	h1	L1	L2
TIPO	Art.	TIPO	Art.					
Z2 - 16	7991	Z2 - 16 S	7993	16	40	18,0	45	13
Z2 - 20	5826	Z2 - 20 S	7994	20	50	23,0	56	16
Z2 - 30	5827	Z2 - 30 S	7995	30	68	28,0	71	16
Z2 - 40	5828	Z2 - 40 S	7996	40	83	32,5	83	20
Z2 - 50	5829	Z2 - 50 S	7997	50	98	35,0	98	20
Z2 - 60	7992	Z2 - 60 S	7998	60	123	42,5	114	20



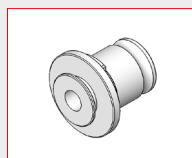
TIPO	Art.	d	d3	L	D	D1	COMPENSAZIONE	
VDI 20 - B.1	5760	20	50	55	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
VDI 20 - B.2	5761	20	50	77	55	31	-15 + 15	M 6 ÷ M 20 (*M30)
VDI 30 - B.1	5780	30	68	55	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
VDI 30 - B.2	5781	30	68	77	55	31	-15 + 15	M 6 ÷ M 20 (*M30)
VDI 40 - B.1	5782	40	83	55	38	19	- 9 + 9	M 3 ÷ M 12 (*M16)
VDI 40 - B.2	5783	40	83	77	55	31	-15 + 15	M 6 ÷ M 20 (*M30)
VDI 40 - B.3	5784	40	83	120	79	48	-24 + 24	M14 ÷ M 33 (*M48)
VDI 50 - B.2	5793	50	98	77	55	31	-15 + 15	M 6 ÷ M 20 (*M30)
VDI 50 - B.3	5794	50	98	108	79	48	-24 + 24	M14 ÷ M 33 (*M48)

* Bussole con grani
Adapters with screws

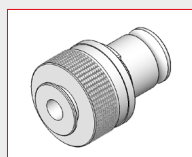


Dove trovare questi Articoli

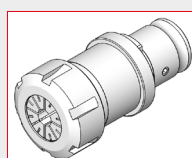
Where to find those Items



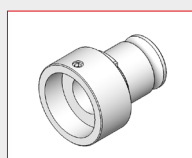
Bussole senza frizione - pag. 172
Tap Adapters without clutch - page 172



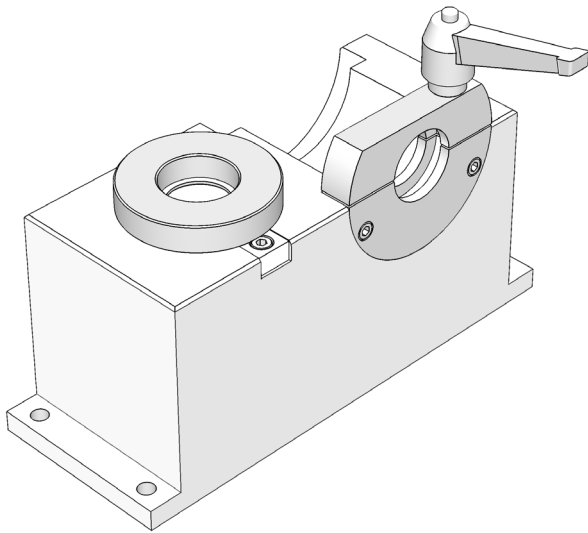
Bussole con frizione - pag. 173
Tap Adapters with clutch - page 173



Riduzioni da bussola a pinza ER - pag. 175
Reductions from adapter to ER collet - page 175



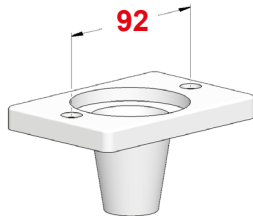
Bussole porta filiere - pag. 175
Threading die adapters - page 175



SUPPORTO DI MONTAGGIO VDI

VDI TIGHTENING FIXTURES

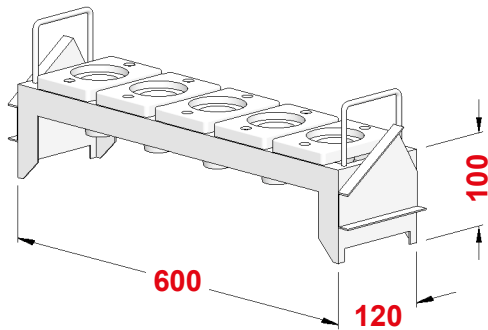
TIPO	Art.	L x P x H
SMD - VDI 16/DIN 69880	9341	350 x 135 x 155
SMD - VDI 20/DIN 69880	4614	
SMD - VDI 30/DIN 69880	4615	
SMD - VDI 40/DIN 69880	4616	
SMD - VDI 50/DIN 69880	4617	
SMD - VDI 60/DIN 69880	9342	



BOCCOLE VDI

VDI PLASTIC BUSHES

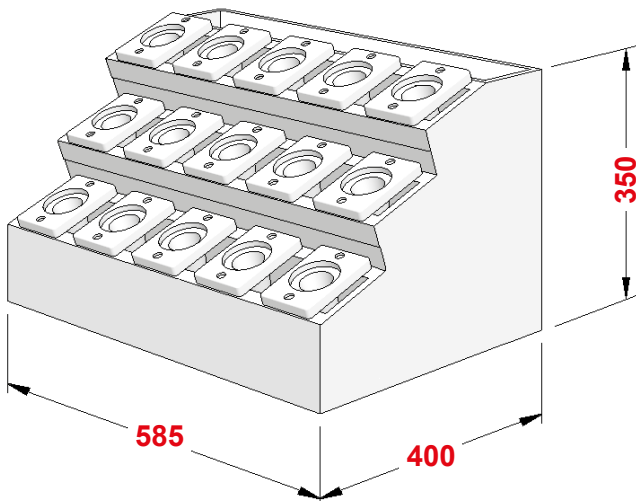
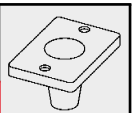
TIPO	Art.	
BOCCOLA VDI 30 - Ø 32	5531	0033
BOCCOLA VDI 40 - Ø 40	5532	0033
BOCCOLA VDI 50 - Ø 50	5533	0033



UNITA' DA BANCO VDI

VDI BENCH UNITIES

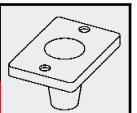
TIPO	Art.	N° SEDI	
UNITA' VDI 30 - Ø 32	5369	5	5531
UNITA' VDI 40 - Ø 40	5370	5	5532
UNITA' VDI 50 - Ø 50	5371	4	5533



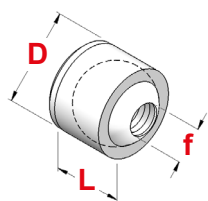
MAGAZZINI PORTAUTENSILI VDI

VDI TOOLHOLDERS STORES

TIPO	Art.	N° SEDI	
MAGAZZINO VDI 30 - Ø 32	3705	15	5531
MAGAZZINO VDI 40 - Ø 40	3706	15	5532
MAGAZZINO VDI 50 - Ø 50	5557	12	5533

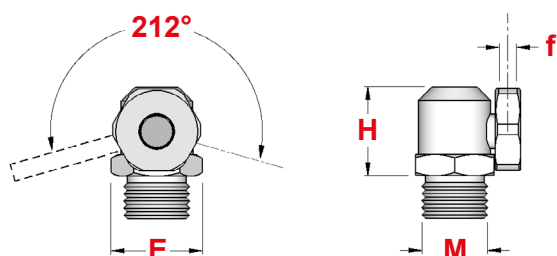


UGELLI A SFERA
SPHERE COOLANT NOZZLES



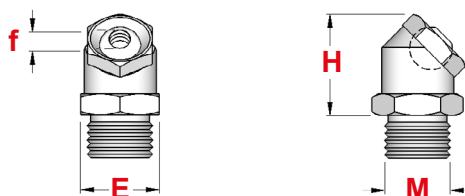
Art.	D	L	f
9200	6	5	M 2,5
9201	8	6	M 4
9202	10	7	M 5
9203	12	8	M 5
9204	12	8	M 6
9205	14	9	M 8
9206	16	10	M 10x1

UGELLI PER ALTA PRESSIONE ORIENTABILI
ORIENTABLE COOLANT NOZZLES FOR HIGH PRESSURE



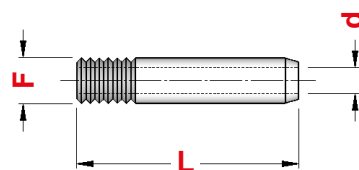
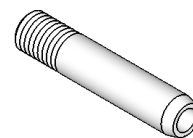
Art.	f	E	M	H
9240	M 4	12	1/8	17
9241	M 5	14	1/8	18
9242	M 6	17	1/4	21

UGELLI A SFERA PER ALTA PRESSIONE
SPHERE COOLANT NOZZLES FOR HIGH PRESSURE



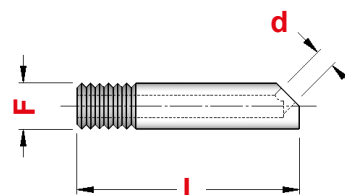
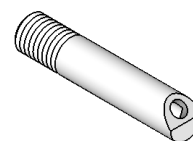
Art.	f	E	M	H
9235	M 3	16	1/8	19
9236	M 5	18	1/4	21
9237	M 6	20	3/8	23
9238	M 8	23	3/8	27

PROLUNGHE PER UGELLI
EXTENSIONS FOR COOLANT NOZZLES



Art.	F	d	L
9210	M 3	1,5	25
9211	M 4	1	30
9212	M 4	2	30
9213	M 5	2	30
9214	M 5	3	40
9215	M 6	2	35
9216	M 6	3	50
9217	M 6	4	50
9218	M 8	2	40
9219	M 8	3	40
9220	M 8	4	40
9221	M 8	5	50
9222	M10x1	2	40
9223	M10x1	4	40
9224	M10x1	6	50
9225	M10x1	8	50

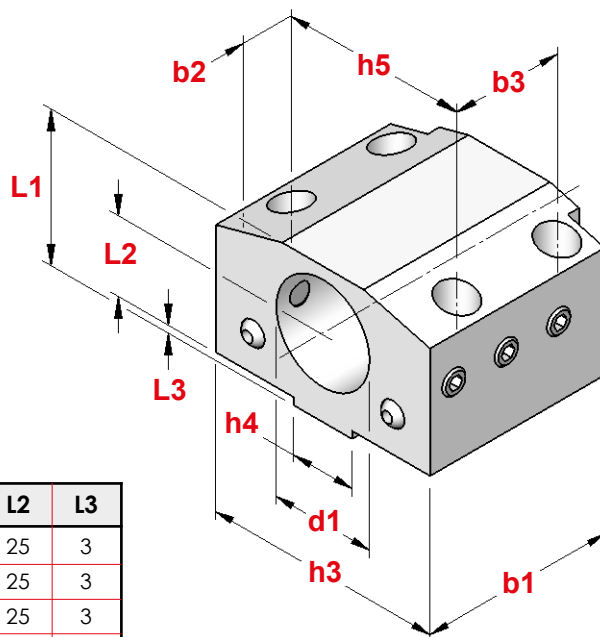
PROLUNGHE PER UGELLI A 45°
45° EXTENSIONS FOR COOLANT NOZZLES



Art.	F	d	L
9230	M 5	2,5	23
9231	M 6	3	30
9232	M 8	4	35

PORTABARENI LONGITUDINALI PER TORRETTE DUPLOMATIC, BARUFFALDI, SAUTER E ALTRE
 LONGITUDINAL BORING BAR HOLDERS FOR DUPLOMATIC, BARUFFALDI, SAUTER TURRETS AND OTHERS

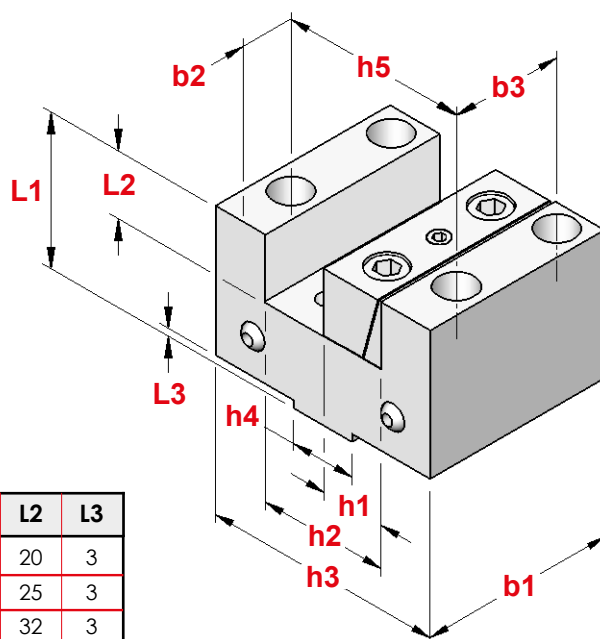
PU1



TIPO	Art.	d1	h3	h4	h5	b1	b2	b3	L1	L2	L3
PU1 20-20	7900	20	74	20	57	60	17,5	34	48	25	3
PU1 20-25	7901	25	74	20	57	60	17,5	34	48	25	3
PU1 20-32	7902	32	74	20	57	60	17,5	34	48	25	3
PU1 20-40	7903	40	74	20	57	60	17,5	34	60	32	3
PU1 25-20	7904	20	92	25	71	75	22,0	43	58	30	3
PU1 25-25	7905	25	92	25	71	75	22,0	43	58	30	3
PU1 25-32	7906	32	92	25	71	75	22,0	43	58	30	3
PU1 25-40	7907	40	92	25	71	75	22,0	43	58	30	3
PU1 25-50	7908	50	92	25	71	75	22,0	43	73	38	3
PU1 32-25	7909	25	115	32	90	95	26,0	57	73	35	3
PU1 32-32	7910	32	115	32	90	95	26,0	57	73	35	3
PU1 32-40	7911	40	115	32	90	95	26,0	57	73	35	3
PU1 32-50	7912	50	115	32	90	95	26,0	57	73	35	3
PU1 32-60	7913	60	115	32	90	95	26,0	57	83	40	3

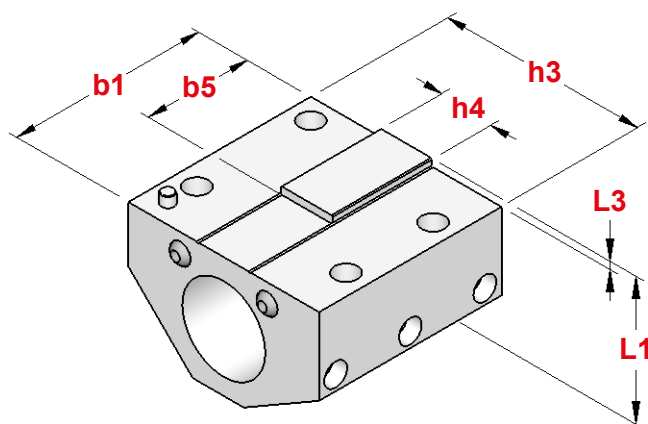
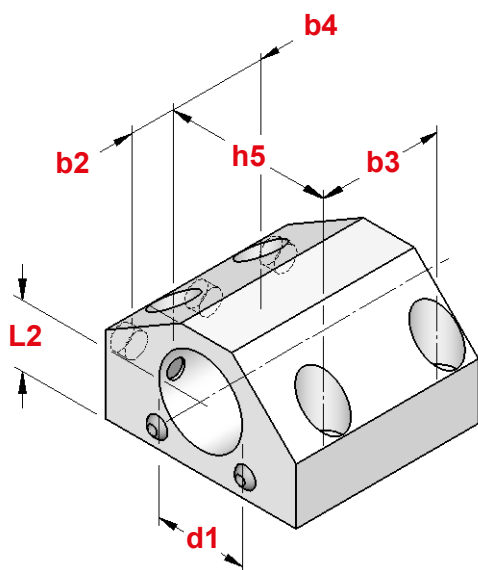
PORTAUTENSILI LONGITUDINALI PER TORRETTE DUPLOMATIC, BARUFFALDI, SAUTER E ALTRE
 LONGITUDINAL TOOL HOLDERS FOR DUPLOMATIC, BARUFFALDI, SAUTER TURRETS AND OTHERS

PU2



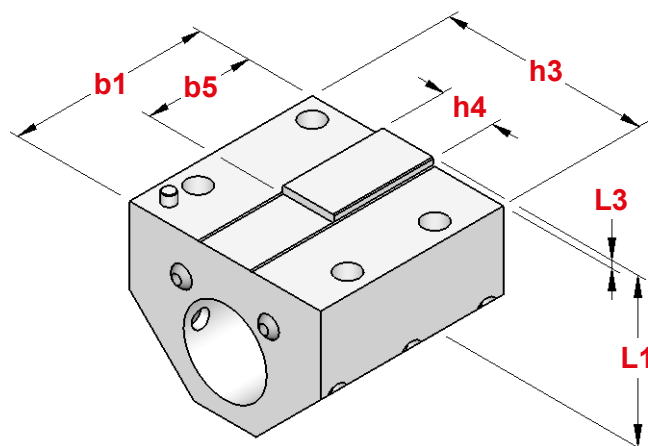
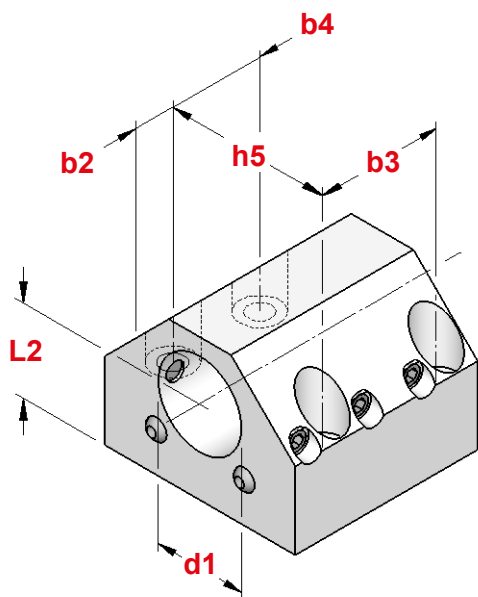
TIPO	Art.	h1	h2	h3	h4	h5	b1	b2	b3	L1	L2	L3
PU2 20-20	7914	20	40	74	20	57	60	17,5	34	43	20	3
PU2 25-25	7915	25	50	92	25	71	75	22,0	43	53	25	3
PU2 32-32	7916	32	64	115	32	90	95	26,0	57	63	32	3

PORTABARENI LONGITUDINALI PER TORNI BIGLIA B 1000
 LONGITUDINAL BORING BAR HOLDERS FOR BIGLIA B 1000 LATHES



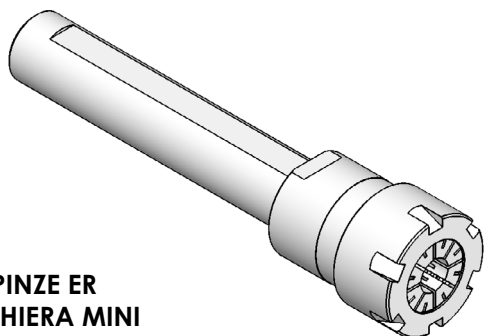
TIPO	Art.	d1	h3	h4	h5	b1	b2	b3	b4	b5	L1	L2	L3
BIGLIA 10.57.20.01	5799	32	92	25	72	88	23	55	42	48	61,5	30	3,5
BIGLIA 10.57.20.02	5800	40	92	25	72	88	23	55	42	48	61,5	30	3,5

PORTABARENI LONGITUDINALI PER TORNI BIGLIA B 56 e B 500
 LONGITUDINAL BORING BAR HOLDERS FOR BIGLIA B 56 AND B 500 LATHES

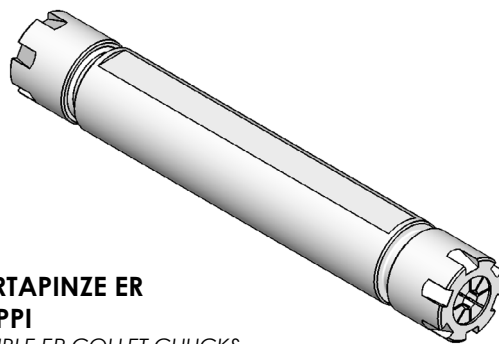


TIPO	Art.	d1	h3	h4	h5	b1	b2	b3	b4	b5	L1	L2	L3
BIGLIA 10.57.20.14	5830	32	92	25	72	88	23	55	42	48	71,5	40	3,5
BIGLIA 10.57.20.16	5831	40	92	25	72	88	23	55	42	48	71,5	40	3,5

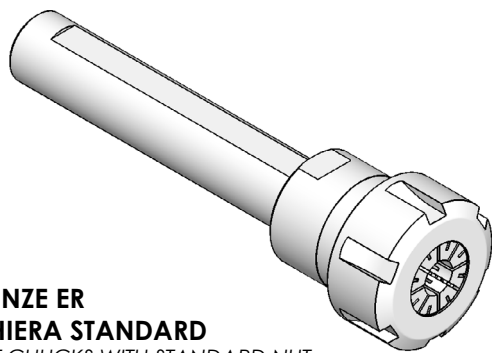
ALTRI PORTAUTENSILI CON ATTACCO CILINDRICO PRESENTI SUL CATALOGO GENERALE
OTHER STRAIGHT SHANK TOOL HOLDERS ON GENERAL CATALOGUE



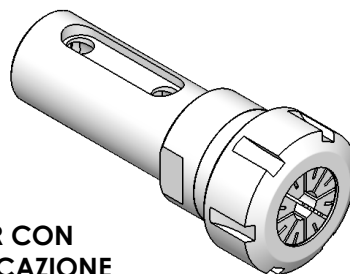
**PORTAPINZE ER
CON GHIERA MINI**
ER COLLET CHUCKS WITH SMALL NUT
da pag. 32



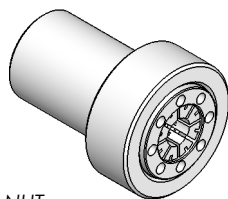
**PORTAPINZE ER
DOPPI**
DOUBLE ER COLLET CHUCKS
pag. 34



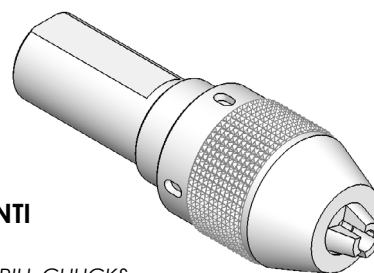
**PORTAPINZE ER
CON GHIERA STANDARD**
ER COLLET CHUCKS WITH STANDARD NUT
da pag. 36



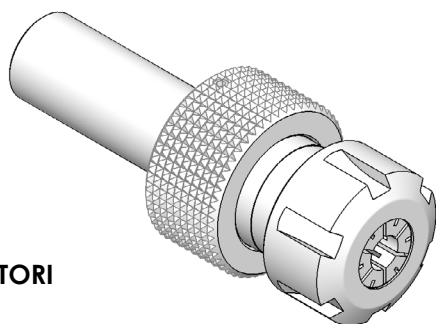
**PORTAPINZA ER CON
FORI DI LUBRIFICAZIONE**
*ER COLLET CHUCKS WITH
COOLANT HOLES*
pag. 38



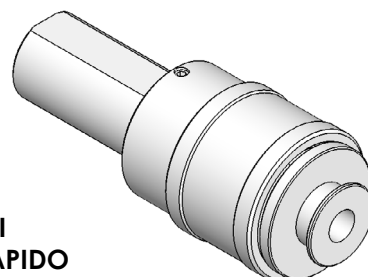
**PORTAPINZE ER
CON GHIERA INTERNA**
ER COLLET CHUCKS WITH INSIDE NUT
pag. 34



**AUTOSERRANTI
INTEGRALI**
MONOLITHIC DRILL CHUCKS
pag. 38



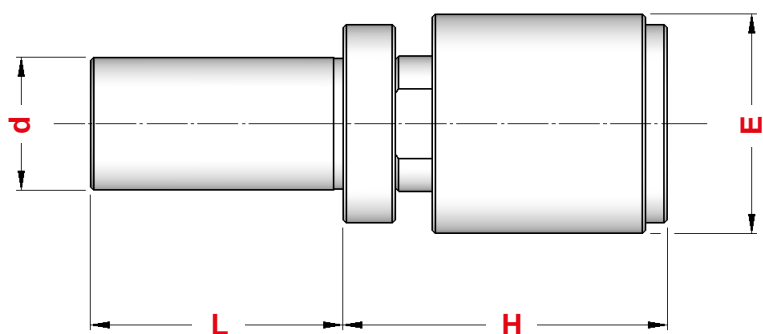
**PORTA ALESATORI
OSCILLANTI**
FLOATING REAMER HOLDERS
pag. 39



**MASCHIATORI
A CAMBIO RAPIDO**
QUICK CHANGE TAP HOLDERS
pag. 40

FERMOBARRA ROTANTI REGOLABILI CON ATTACCO CILINDRICO

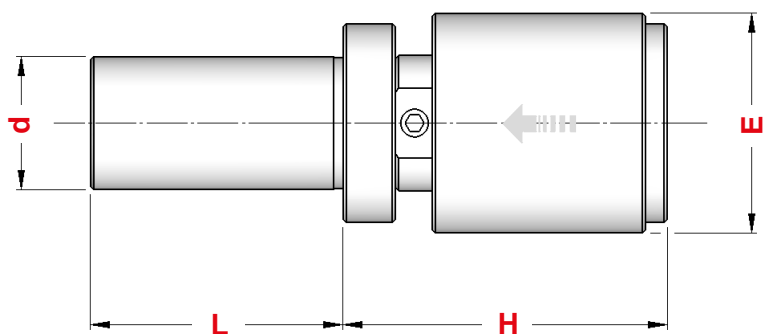
STRAIGHT SHANK ROTARY ADJUSTABLE BAR-STOP



Art.	d	L	H	E
1520	16,00	32	36 - 62	20
1719	19,05	32	36 - 62	20
1720	19,05	46	45 - 75	26
1447	20,00	50	62 - 100	34
1448	22,00	50	62 - 100	34
1449	25,00	50	62 - 100	34
1459	25,00	50	62 - 100	42
1460	25,00	50	62 - 100	56
1450	25,40	50	62 - 100	34
1592	25,40	50	62 - 100	42
1622	25,40	50	62 - 100	56
1730	30,00	50	62 - 100	42
1735	30,00	50	62 - 100	56
2403	31,75	50	62 - 100	42
2433	31,75	50	62 - 100	56
1732	32,00	50	62 - 100	42
1773	32,00	50	62 - 100	56
1736	40,00	70	62 - 100	42
1797	40,00	70	62 - 100	56

FERMOBARRA ROTANTI REGOLABILI AMMORTIZZATI CON ATTACCO CILINDRICO

DAMPED STRAIGHT SHANK ROTARY ADJUSTABLE BAR-STOP

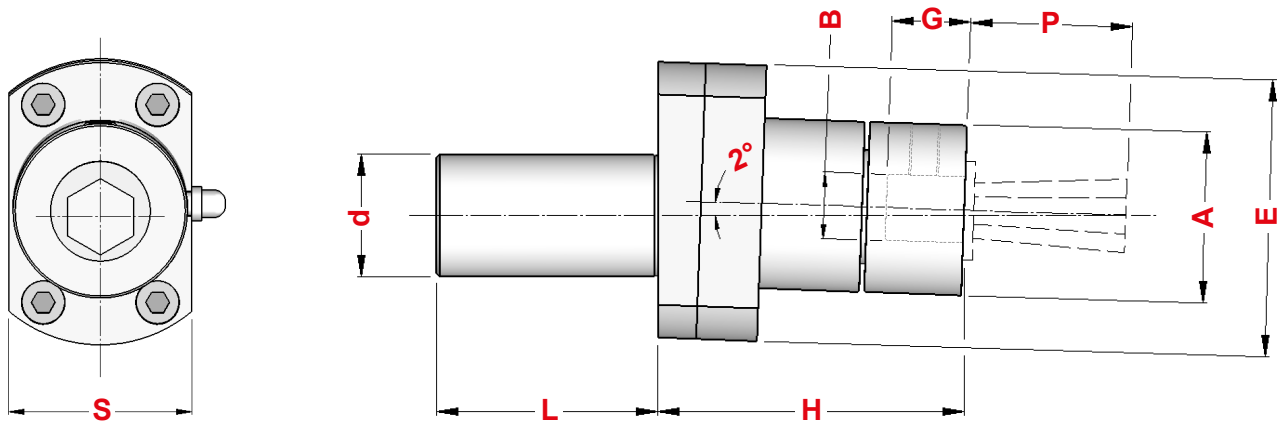


Art.	d	L	H	E
2628	19,05	46	58 - 100	34
2629	20,00	35	62 - 90	34
2630	20,00	50	62 - 100	34
2635	25,00	50	62 - 100	34
2421	25,00	50	62 - 100	42
2447	25,00	50	62 - 100	56
0985	25,40	50	62 - 100	34
1024	25,40	50	62 - 100	42
1062	25,40	50	62 - 100	56
1537	30,00	50	62 - 100	42
1552	30,00	50	62 - 100	56
1560	31,75	50	62 - 100	42
1565	31,75	50	62 - 100	56
1025	32,00	50	62 - 100	42
1063	32,00	50	62 - 100	56
1061	40,00	70	62 - 100	42
1073	40,00	70	62 - 100	56

CARATTERISTICHE: a differenza del normale fermobarra rotante, nel modello ammortizzato, oltre al cuscinetto radiale ed al reggispira, è presente una serie di molle a tazza per meglio assorbire eventuali urti della barra.

CHARACTERISTICS: unlike normal rotary bar stop, inside damped model, besides radial bearing and thrust bearing, there is a set of spring washers in order to absorb well any bar shoves.

BROCCIATORI CON ATTACCO CILINDRICO STRAIGHT SHANK BROACHING TOOLHOLDERS

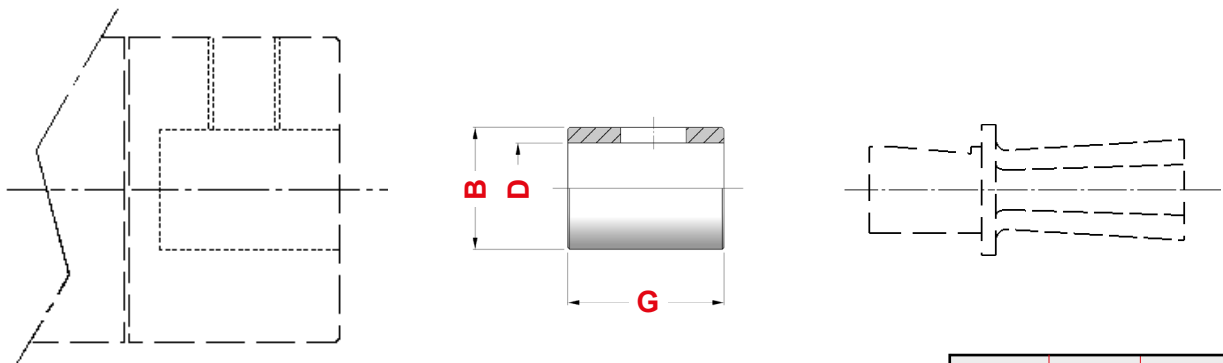


Art.	d	L	H	G	P	A	E	S	B
2312	16,00	35	42	10	18	22	50	30	8
2448	19,05	40	51	16	25	30	53	36	12
1680	20,00	40	51	16	25	30	53	36	12
1705	22,00	45	76	21	25	42	68	44	16
1707	25,00	45	76	21	25	42	68	44	16
2450	25,40	45	76	21	25	42	68	44	16
1731	30,00	45	76	21	25	42	68	44	16
2451	31,75	50	76	21	25	42	68	44	16
2709	32,00	50	76	21	25	42	68	44	16
2712	40,00	50	76	21	25	42	68	44	16

Per il corretto funzionamento si consiglia di rispettare la quota "P" come riportato in tabella
For the right operation, is recommended to respect "P" dimension as quoted in the table

Possiamo fornire i Brocciatori anche con attacco Cono Morse
Also available with Morse Taper shank

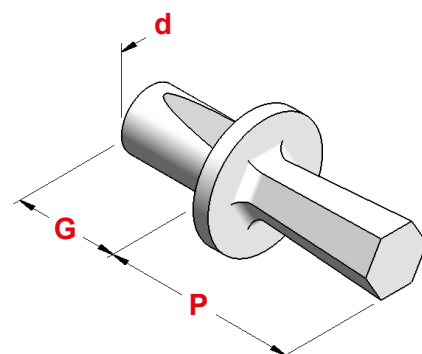
RIDUTTORE PER SEDE BROCCIA DA GAMBO 16 A GAMBO 12 REDUCTION FOR BROACH SEAT FROM 16 TO 12 SHANK



Art.	B	D	G
2351	16	12	20,5

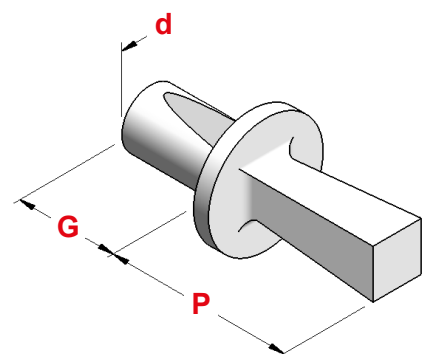
BROCCE ESAGONALI HEXAGONAL BROACHES

d	G	P	Esagonale Hexagonal	HSS			
				Articolo	in HSS RIVESTITO con : HSS COATED with :		
				TiN Articolo	TiCN Articolo	INOX-PLUS Articolo	
5	7	10	1 ÷ 5	9030	9035	9040	9045
8	9	18	1 ÷ 10	9031	9036	9041	9046
12	15	25	1 ÷ 17	9032	9037	9042	9047
16	19	25	1 ÷ 32	9033	9038	9043	9048



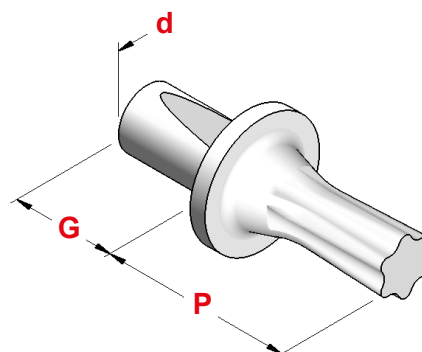
BROCCE QUADRE SQUARE BROACHES

d	G	P	Quadro Square	HSS			
				Articolo	in HSS RIVESTITO con : HSS COATED with :		
				TiN Articolo	TiCN Articolo	INOX-PLUS Articolo	
5	7	10	1,5 ÷ 4	9050	9055	9060	9065
8	9	18	1,5 ÷ 8	9051	9056	9061	9066
12	15	25	1,5 ÷ 14	9052	9057	9062	9067
16	19	25	1,5 ÷ 25	9053	9058	9063	9068



BROCCE TORX * TORX BROACHES

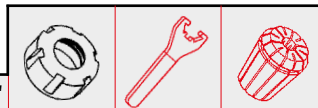
d	G	P	Torx * Torx	HSS			
				Articolo	in HSS RIVESTITO con : HSS COATED with :		
				TiN Articolo	TiCN Articolo	INOX-PLUS Articolo	
8	9	18	5 ÷ 30	9070	9075	9080	9085
12	15	25	5 ÷ 55	9071	9076	9081	9086
16	19	25	60	9072	9077	9082	9087



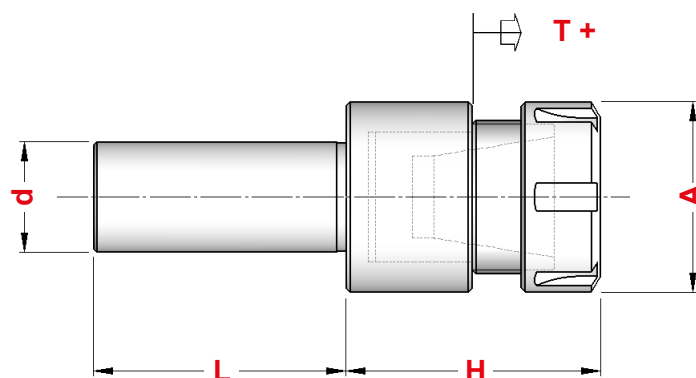
* Marchio registrato / Trade Mark

MEP

**MASCHIATORI AD ESTRAZIONE
CON ATTACCO CILINDRICO E PINZA ER**
DRAW-OUT TAP HOLDERS WITH ER - DIN 6499 COLLET



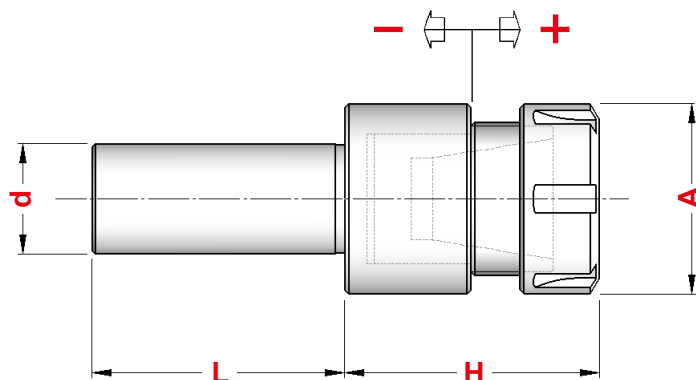
TIPO	Art.	d	L	H	T+	A	CAPACITA'			
d 16 MEP - ER 20	3152	16,00	32	63	+ 11	35	1 ÷ 13	4994	3699	0787
d 19,05 MEP - ER 20	3163	19,05	50	63	+ 11	35	1 ÷ 13	4994	3699	0787
d 20 MEP - ER 20	3164	20,00	50	63	+ 11	35	1 ÷ 13	4994	3699	0787
d 25 MEP - ER 25	3552	25,00	50	61	+ 15	42	1 ÷ 16	4995	3669	0996
d 25 MEP - ER 32	3165	25,00	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 25,4 MEP - ER 25	3166	25,40	50	61	+ 15	42	1 ÷ 16	4995	3669	0996
d 25,4 MEP - ER 32	3555	25,40	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 30 MEP - ER 32	1553	30,00	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 31,75 MEP - ER 32	3556	31,75	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 32 MEP - ER 32	3559	32,00	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 40 MEP - ER 32	3560	40,00	70	65	+ 16	50	2 ÷ 20	4996	3670	0988

**MCP**

**MASCHIATORI A DOPPIA COMPENSAZIONE
CON ATTACCO CILINDRICO E PINZA ER**
DOUBLE COMPENSATION TAP HOLDERS WITH ER - DIN 6499 COLLET

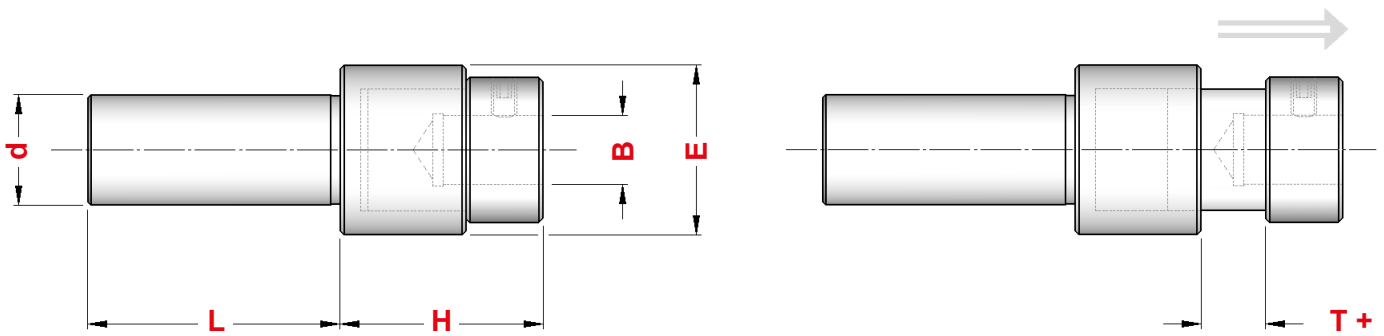


TIPO	Art.	d	L	H	COMPENSAZIONE	A	CAPACITA'			
d 16 MCP- ER 20	3561	16,00	32	67	- 4 + 7	35	1 ÷ 13	4994	3699	0787
d 19,05 MCP- ER 20	3562	19,05	50	67	- 4 + 7	35	1 ÷ 13	4994	3699	0787
d 20 MCP- ER 20	3563	20,00	50	67	- 4 + 7	35	1 ÷ 13	4994	3699	0787
d 25 MCP- ER 25	3572	25,00	50	67	- 6 + 9	42	1 ÷ 16	4995	3669	0996
d 25 MCP- ER 32	3573	25,00	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 25,4 MCP- ER 25	3574	25,40	50	67	- 6 + 9	42	1 ÷ 16	4995	3669	0996
d 25,4 MCP- ER 32	3575	25,40	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 30 MCP- ER 32	3576	30,00	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 31,75 MCP- ER 32	3577	31,75	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 32 MCP- ER 32	3578	32,00	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 40 MCP- ER 32	3579	40,00	70	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988



ME

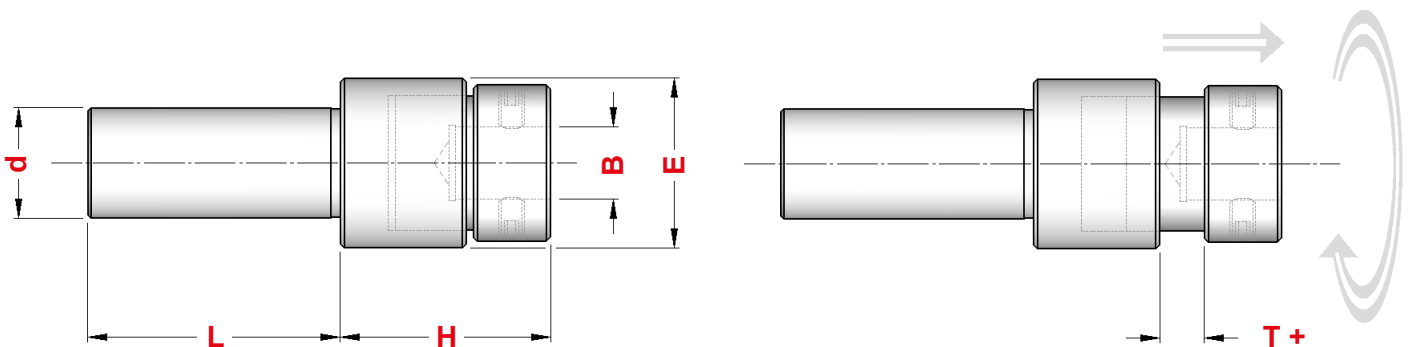
MASCHIATORI AD ESTRAZIONE CON ATTACCO CILINDRICO
 STRAIGHT SHANK DRAW-OUT TAP HOLDERS



TIPO	Art.	d	L	H	E	T+	B
d 16 ME	1658	16,00	32	29	29	+ 8	10
d 19,05 ME	1451	19,05	50	38	34	+ 12	12
d 20 ME	1452	20,00	50	38	34	+ 12	12
d 25 ME	1725	25,00	50	49	42	+ 16	18
d 25,4 ME	1453	25,40	50	49	42	+ 16	18
d 31,75 ME	1454	31,75	50	49	58	+ 16	25
d 32 ME	2402	32,00	50	49	58	+ 16	25

MS

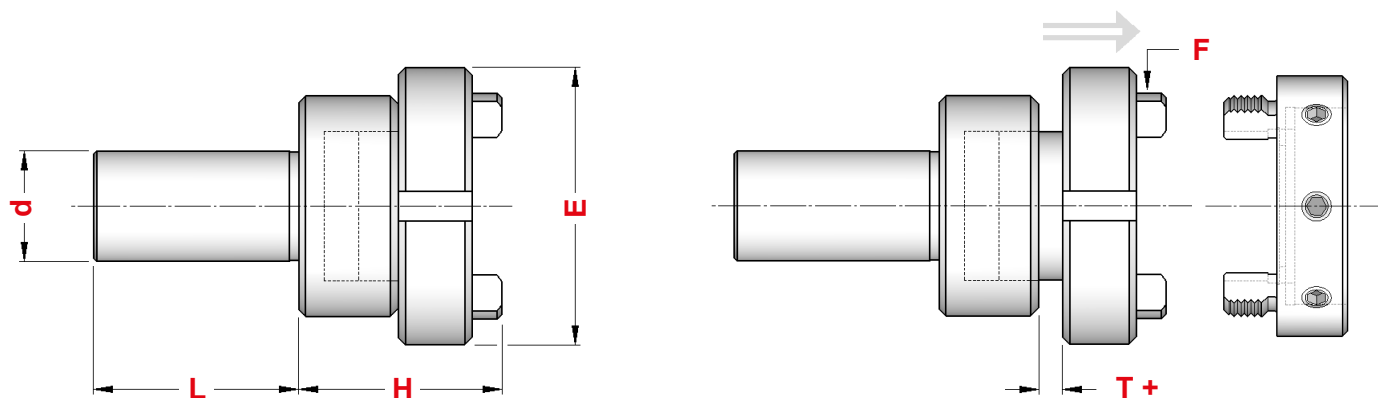
MASCHIATORI A SGANCIAMENTO CON ATTACCO CILINDRICO
 STRAIGHT SHANK OFF HOOK TAP HOLDERS



TIPO	Art.	d	L	H	E	T+	B
d 20 MS	1368	20,00	50	44	51	mm 4	18
d 22 MS	1369	22,00	50	44	51	mm 4	18
d 25 MS	1370	25,00	50	44	51	mm 4	18
d 25,4 MS	1367	25,40	50	44	51	mm 4	18
d 30 MS	2074	30,00	50	54	51	mm 4	25
d 31,75 MS	2422	31,75	50	54	51	mm 4	25
d 32 MS	1706	32,00	50	54	51	mm 4	25

PFE

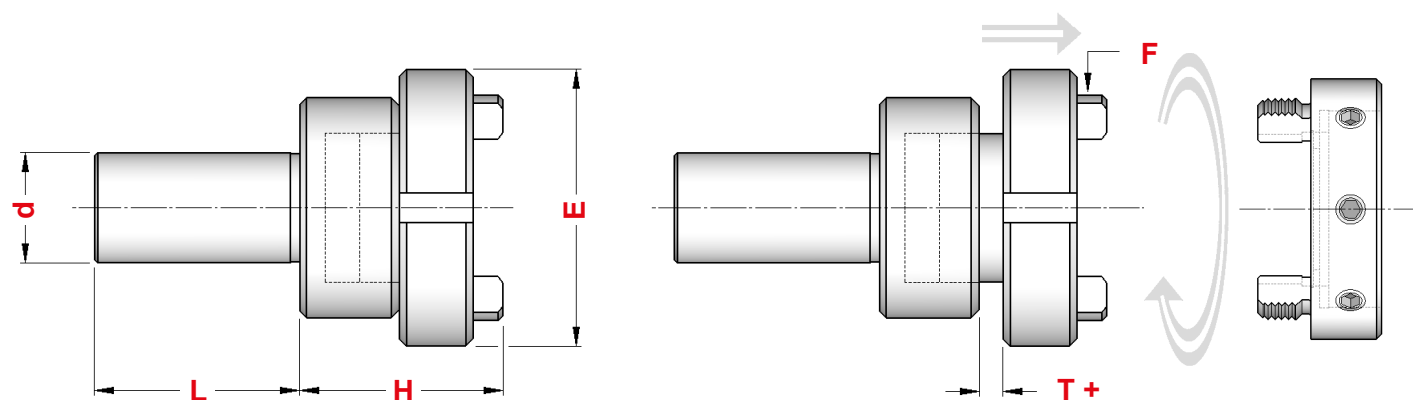
PORTAFILIERE AD ESTRAZIONE CON ATTACCO CILINDRICO STRAIGHT SHANK DRAW-OUT THREADING DIE HOLDERS



TIPO	Art.	d	L	H	E	T+	F
d 16 PFE	1637	16,00	32	33	36	mm 8	M28 x1,0
d 19,05 PFE	1814	19,05	32	42	56	mm 12	M48 x1,5
d 20 PFE	1640	20,00	32	42	56	mm 12	M48 x1,5
d 22 PFE	1641	22,00	46	59	70	mm 16	M60 x1,5
d 25 PFE	1650	25,00	46	59	70	mm 16	M60 x1,5
d 25,4 PFE	1872	25,40	46	59	70	mm 16	M60 x1,5
d 30 PFE	1646	30,00	46	59	70	mm 16	M60 x1,5
d 31,75 PFE	1807	31,75	46	59	70	mm 16	M60 x1,5
d 32 PFE	1916	32,00	46	59	70	mm 16	M60 x1,5
d 40 PFE	2556	40,00	85	51	70	mm 16	M60 x1,5

PFS

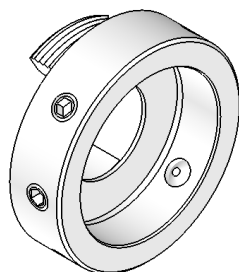
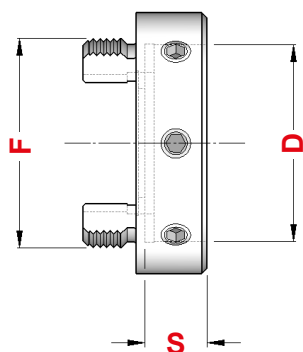
PORTAFILIERE A SGANCIAMENTO CON ATTACCO CILINDRICO STRAIGHT SHANK OFF HOOK THREADING DIE HOLDERS



TIPO	Art.	d	L	H	E	T+	F
d 19,05 PFS	0369	19,05	50	46	57	mm 4	M48 x1,5
d 20 PFS	1630	20,00	50	46	57	mm 4	M48 x1,5
d 22 PFS	1890	22,00	50	51	71	mm 4	M60 x1,5
d 25 PFS	1891	25,00	50	51	71	mm 4	M60 x1,5
d 25,4 PFS	1889	25,40	50	51	71	mm 4	M60 x1,5
d 30 PFS	1668	30,00	50	51	71	mm 4	M60 x1,5
d 31,75 PFS	2249	31,75	50	51	71	mm 4	M60 x1,5
d 32 PFS	1653	32,00	50	51	71	mm 4	M60 x1,5

CAPPELLOTTI PER PORTAFILIERE AD ESTRAZIONE E A SGANCIAMENTO

CAPS FOR DRAW OUT AND OFF HOOK THREADING DIE HOLDERS



Art.	D	S	F
0054	16	5	M28 x 1,0
0059	20	5	M28 x 1,0
1712	20	7	M28 x 1,0
0067	25	9	M28 x 1,0
1848	30	11	M28 x 1,0

1824	20	5	M48 x 1,5
1806	20	7	M48 x 1,5
1803	25	9	M48 x 1,5
1808	30	11	M48 x 1,5
1852	38	10	M48 x 1,5
1809	38	14	M48 x 1,5
1810	45	14	M48 x 1,5
1877	45	18	M48 x 1,5
2006	50	16	M48 x 1,5
2007	55	16	M48 x 1,5

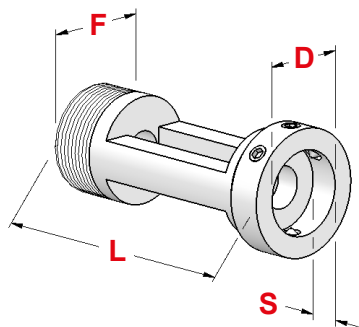
1600	25	9	M60 x 1,5
1811	30	11	M60 x 1,5
1804	38	10	M60 x 1,5
1812	38	14	M60 x 1,5
1813	45	14	M60 x 1,5
1911	45	18	M60 x 1,5
1805	50	16	M60 x 1,5
1815	55	16	M60 x 1,5
1816	65	18	M60 x 1,5
1862	75	20	M60 x 1,5

PORTAFILIERE PER APPARECCHIO FORO-FILETTI TRAUB, SAIC E ITS

THREADING DIE HOLDERS FOR TRAUB, SAIC AND ITS DRILL-THREAD DEVICE

TRAUB A.15 - 20 - 25

Art.	D	S	L	F
1043	16	5	27	M25 x 1,5 SX
1044			45	
1045			66	
1046	20	7	32	M25 x 1,5 SX
1047			46	
1055	25	9	31	M25 x 1,5 SX
1056			46	
1057			62	
1058	30	11	32	M25 x 1,5 SX
1059			46	
1060			62	
1067	38	14	32	M25 x 1,5 SX
1068			46	
1069			72	



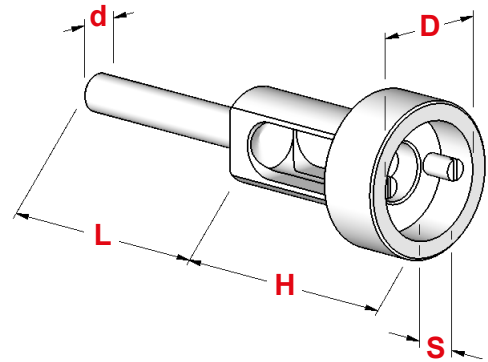
SAIC B.26 - ITS 26

Art.	D	S	L	F
1603	16	5	27	M26 x 1,5 SX
1604			46	
1605			69	
1606	20	7	32	M26 x 1,5 SX
1607			46	
1608			68	
1609	25	9	31	M26 x 1,5 SX
1610			46	
1611			68	
1612	30	11	32	M26 x 1,5 SX
1613			48	
1614			68	
1615	38	14	36	M26 x 1,5 SX
1616			44	
1617			67	

PORTAFILIERA FISSI
FIXED THREADING DIE HOLDERS

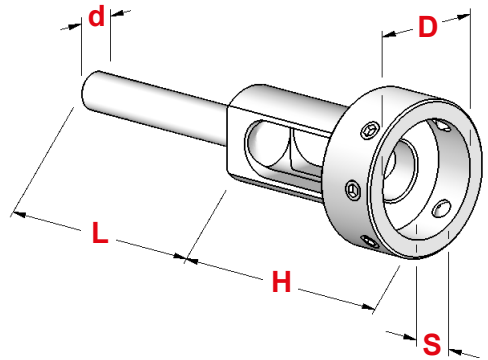
FISSAGGIO FRONTALE
FRONT FIXING

Art.	D	S	d	H	L
1094	16	5	8	40	40
1075	20	5	8	43	45
1096	20	7	8	43	45
1104	25	9	8	50	45
1106	30	11	8	50	45
1084	35	12	8	60	50



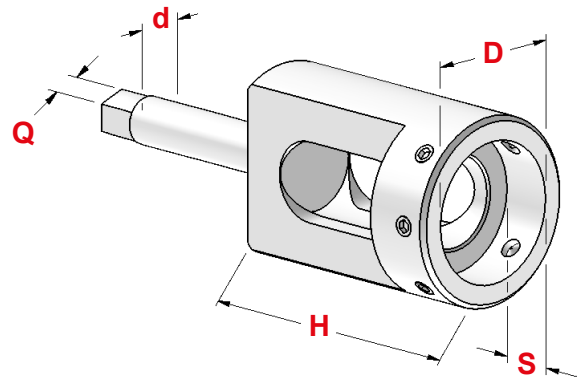
FISSAGGIO LATERALE
LATERAL FIXING

Art.	D	S	d	H	L
1093	16	5	8	40	40
1075	20	5	8	43	45
1095	20	7	8	43	45
1103	25	9	8	50	45
1105	30	11	8	50	45
1125	38	10	8	56	50
1107	38	14	8	56	50



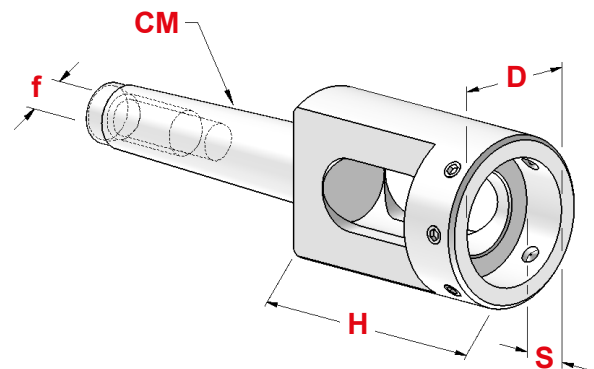
TIPO MAGGIORATO
INCREASED TYPE

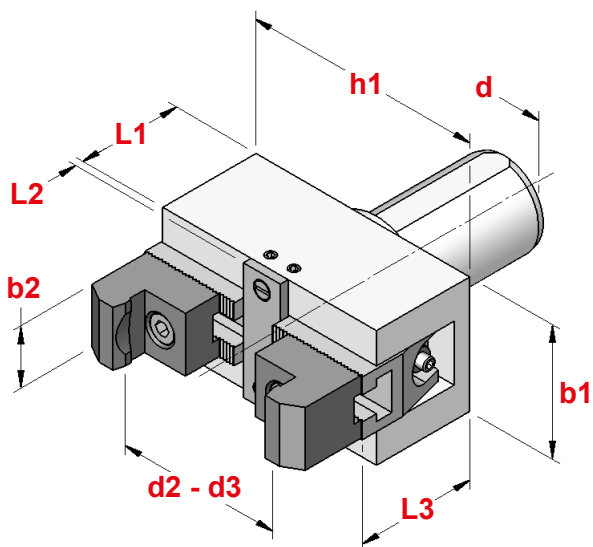
Art.	D	S	d	Q	H
2486	16	5	9	7	60
2540	20	7	9	7	60
2536	25	9	9	7	60
2537	30	11	10	8	60
2538	38	10	10	8	60
2544	38	14	12	9	60
2539	45	14	12	9	66
2558	45	18	14	11	66



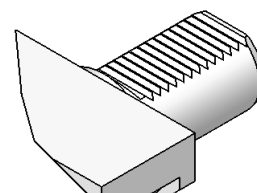
ATTACCO CONO MORSE
MORSE TAPER SHANK

Art.	D	S	CM	f	H
2727	16	5	2	M 10	60
2728	20	7	2	M 10	60
2729	25	9	2	M 10	60
2731	30	11	2	M 10	60
2735	38	10	2	M 10	60
2767	38	14	2	M 10	60
2776	45	14	2	M 10	66
2786	45	18	2	M 10	66





CON ATTACCO VDI
WITH VDI SHANK



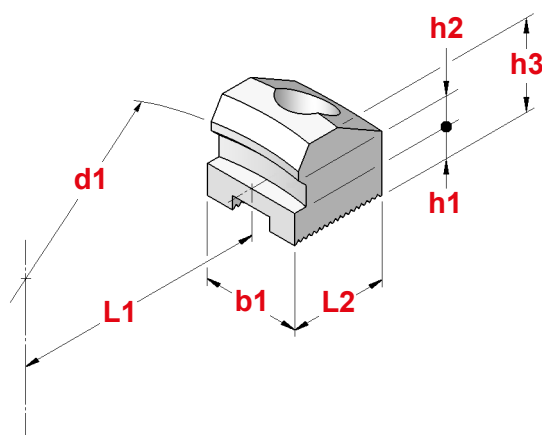
Pag. 259

TIPO	Art.	d	d2	d3	b1	b2	h1	L1	L2	L3
H1.CIL 25	5422	25	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1.CIL 32	5423	32	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1.CIL 40	5424	40	6 ÷ 66	54 ÷ 110	60	28	110	48	4	53
H1.CIL 50	5425	50	10 ÷ 75	62 ÷ 125	65	28	130	67	5	73

La confezione dello Stringibarra comprende 2 coppie di griffe per poter stringere l'intera gamma delle misure (d2-d3).

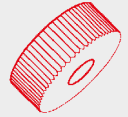
Bar Clamp wrapping includes 2 couples of jaws to allow clamping the complete range of dimensions (d2-d3).

GRIFFE JAWS

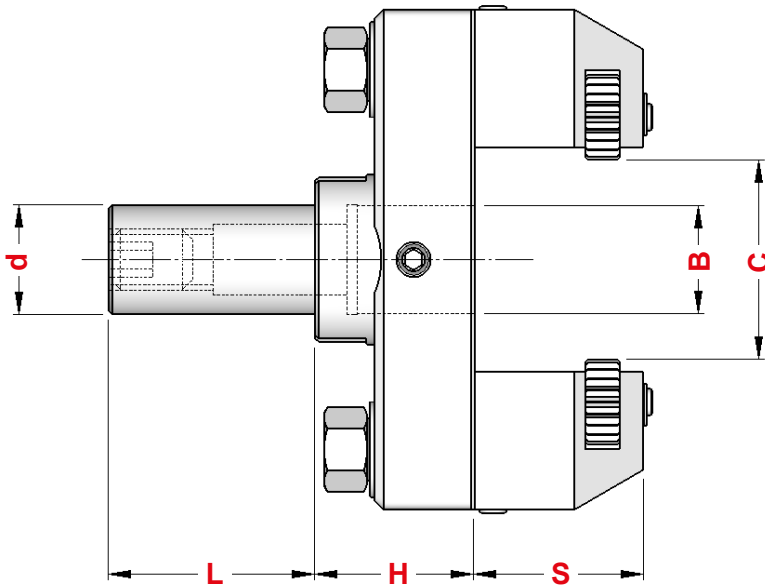


TIPO	Art.	d1	b1	L1	L2	h1	h2	h3
H1.10 30 - 40	5822	75	28	35	28	9	10	26
H1.11 30 - 40	5823	125	28	42	36	18	10	34
H1.10 50 - 60	5824	75	28	35	28	17	10	42
H1.11 50 - 60	5825	125	28	42	36	24	10	42

PORTAGODRONI DOPPI REGISTRABILI CON ATTACCO CILINDRICO
 STRAIGHT SHANK ADJUSTABLE DOUBLE KNURLING -WHEEL HOLDERS

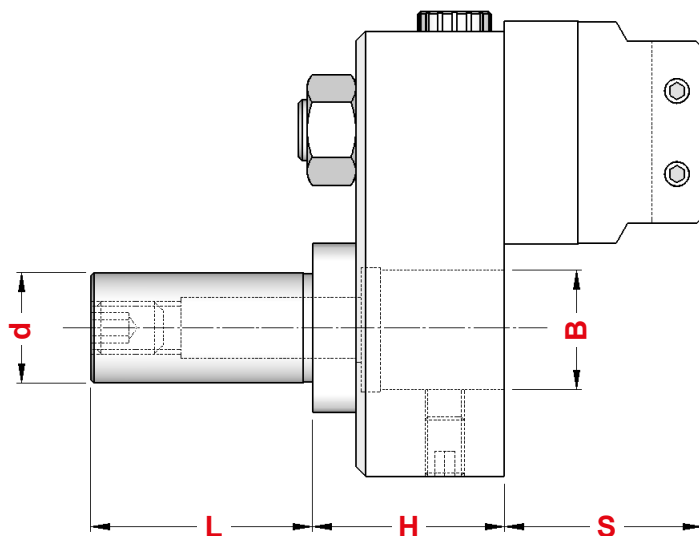


Art.	d	L	H	S	C	B	GODRONE
1874	19,05	42	28	33	5 ÷ 26	15	20 x 8 x 6
0327	20,00	42	28	33	5 ÷ 26	15	20 x 8 x 6
0338	22,00	50	35	40	6 ÷ 56	25	20 x 8 x 6
0339	25,00	50	35	40	6 ÷ 56	25	20 x 8 x 6
1875	25,40	50	35	40	6 ÷ 56	25	20 x 8 x 6
0352	30,00	50	35	40	6 ÷ 56	25	20 x 8 x 6
0361	31,75	50	35	40	6 ÷ 56	25	20 x 8 x 6
0362	32,00	50	35	40	6 ÷ 56	25	20 x 8 x 6

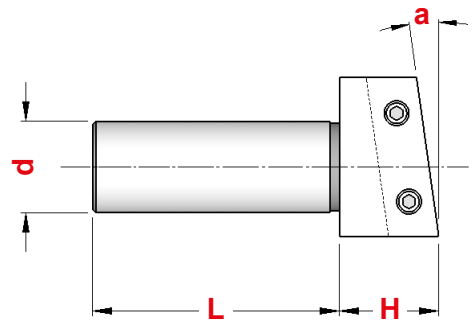
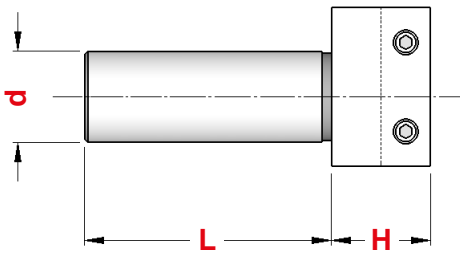


PORTAUTENSILI REGISTRABILI RADIALI CON ATTACCO CILINDRICO
 STRAIGHT SHANK RADIAL ADJUSTABLE TOOLHOLDERS

Art.	d	L	H	S	B
1864	22,00	50	38	38	25
1013	25,00	50	38	38	25
1014	25,40	50	38	38	25
1867	30,00	50	38	38	25
1853	31,75	50	38	38	25
1879	32,00	50	38	38	25



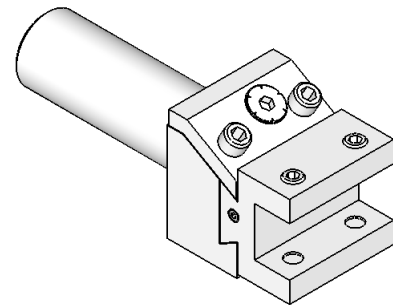
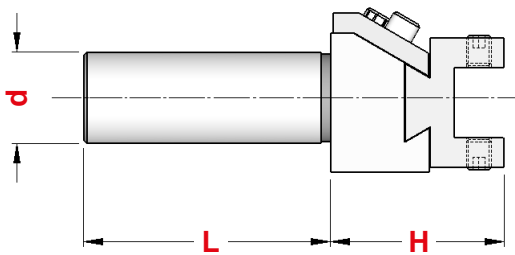
PORTABARRETTE FISSI
FIXED TOOLPOSTS



Art.	d	L	H
2763	12	32	14
2768	12	40	14
2453	15	42	18
2783	15	60	18
1100	15	75	20
2069	18	50	20
2785	18	75	20
1034	22	85	24

Art.	d	L	H	α
2454	15	42	18	8°
2864	15	60	18	8°
1101	15	75	22	15°
1102	15	75	50	45°
2070	18	50	24	8°
2876	18	75	25	8°
1035	22	85	27	15°
1036	22	85	55	45°

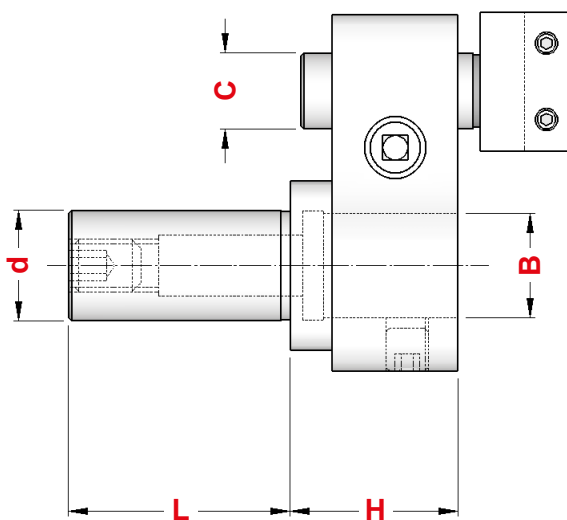
PORTABARRETTE REGISTRABILI CENTESIMALI
CENTESIMAL ADJUSTABLE TOOLPOSTS



Art.	d	L	H
0163	15	42	40
2679	15	60	40
0164	18	50	40
2680	18	75	40

PORTAUTENSILI COMBINATI SEMPLICI TORNIRE-FORARE CON ATTACCO CILINDRICO

STRAIGHT SHANK TURN AND DRILL SIMPLE TOOLHOLDERS



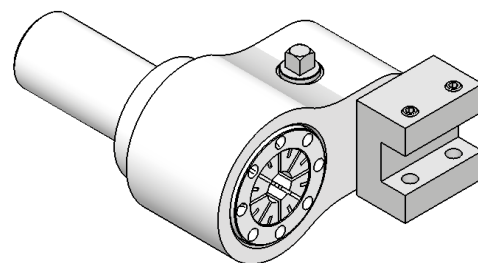
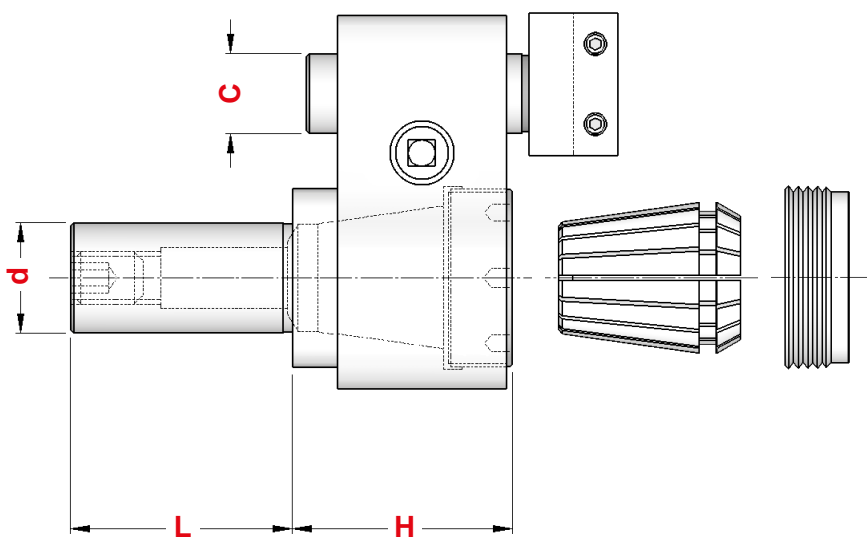
Art.	d	L	H	C	B	
2066	19,05	46	26	15	15	2453
1223	20,00	46	26	15	15	2453
2346	22,00	50	36	18	25	2069
1333	25,00	50	36	18	25	2069
2065	25,40	50	36	18	25	2069
2088	30,00	50	36	18	25	2069
2449	31,75	50	36	18	25	2069
1219	32,00	50	36	18	25	2069

PORTAUTENSILI COMBINATI SEMPLICI TORNIRE-FORARE CON ATTACCO CILINDRICO E PINZA ER

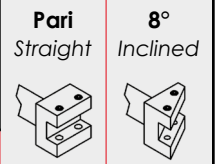
STRAIGHT SHANK TURN AND DRILL SIMPLE TOOLHOLDERS WITH ER-DIN 6499 COLLET



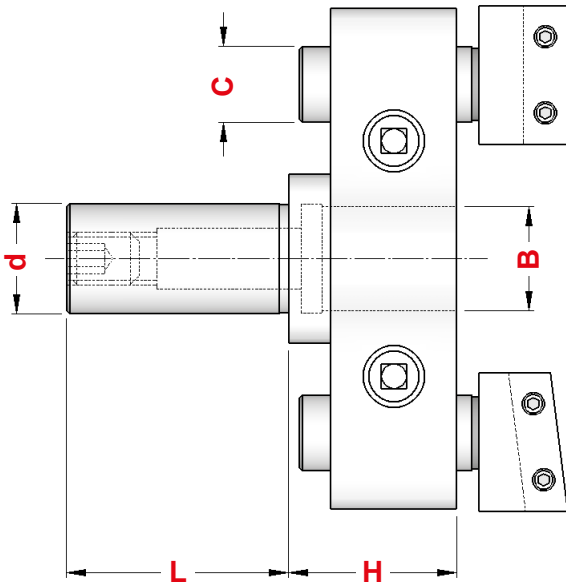
Art.	d	L	H	C	CAPACITA'				
2418	19,05	46	34	15	1,0 ÷ 13	2453	2869	3171	0787
1172	20,00	46	34	15	1,0 ÷ 13	2453	2869	3171	0787
1679	22,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1899	25,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
2419	25,40	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1721	30,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1968	31,75	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1181	32,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988



PORTAUTENSILI COMBINATI DOPPI TORNIRE-FORARE CON ATTACCO CILINDRICO
 STRAIGHT SHANK TURN AND DRILL DOUBLE TOOLHOLDERS



Art.	d	L	H	C	B		
2073	19,05	46	32	15	15	2453	2454
1224	20,00	46	32	15	15	2453	2454
2089	22,00	50	48	18	25	2069	2070
2093	25,00	50	48	18	25	2069	2070
2072	25,40	50	48	18	25	2069	2070
2094	30,00	50	48	18	25	2069	2070
2443	31,75	50	48	18	25	2069	2070
1225	32,00	50	48	18	25	2069	2070

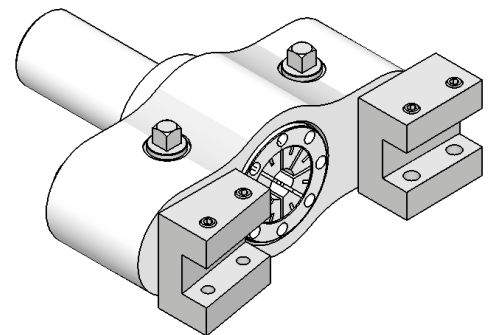
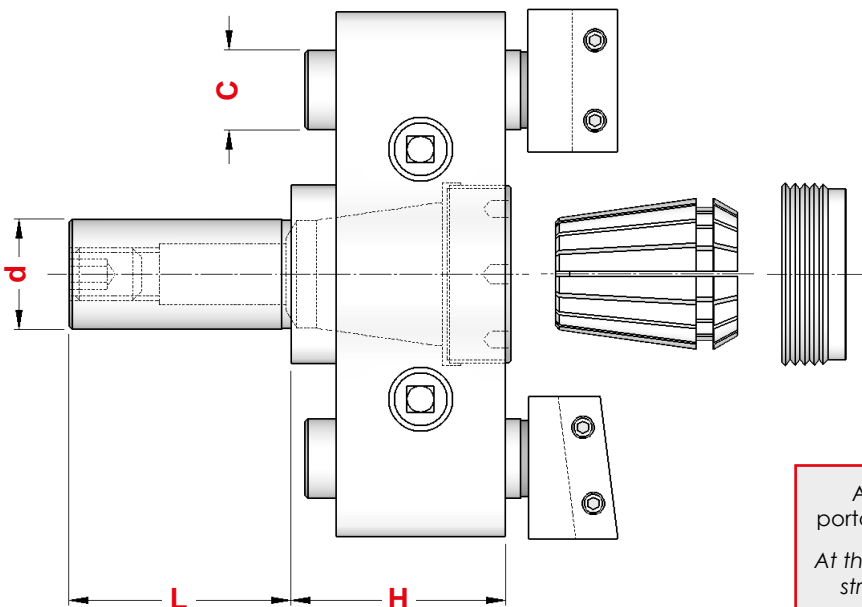


Al momento dell'ordine specificare se si desidera un portabarrette pari e uno inclinato 8° oppure entrambi pari.
 At the moment of the order please specify if it is needed one straight toolpost and one 8° inclined or if both straight.

PORTAUTENSILI COMBINATI DOPPI TORNIRE-FORARE CON ATTACCO CILINDRICO E PINZA ER
 TURN AND DRILL DOUBLE TOOLHOLDERS WITH ER-DIN 6499 COLLET

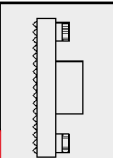


Art.	d	L	H	C	CAPACITA'					
2504	19,05	46	34	15	1,0 ÷ 13	2453	2454	2869	3171	0787
1183	20,00	46	34	15	1,0 ÷ 13	2453	2454	2869	3171	0787
1969	22,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
1970	25,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
2505	25,40	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
2013	30,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
2078	31,75	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
1199	32,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988

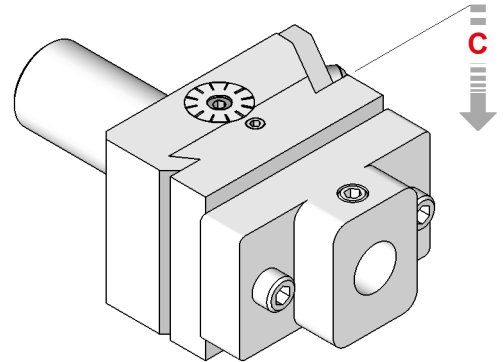
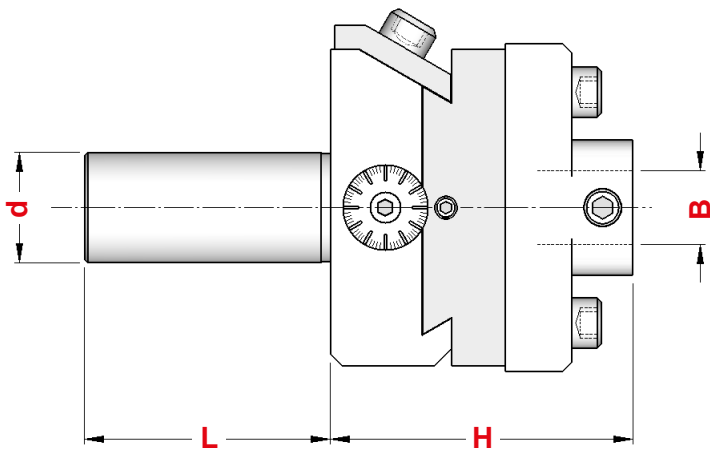


Al momento dell'ordine specificare se si desidera un portabarrette pari e uno inclinato 8° oppure entrambi pari.
 At the moment of the order please specify if it is needed one straight toolpost and one 8° inclined or if both straight.

PORTAUTENSILI MICROMETRICI PER INTERNI CON ATTACCO CILINDRICO
 STRAIGHT SHANK MICROMETRIC SETTING BORING TOOLHOLDERS

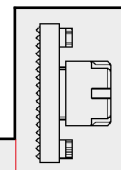


Art.	d	L	H	B	C	
1501	16,00	32	46,5	12	10	—
1701	19,05	50	54	15	18	2987
1868	20,00	50	54	15	18	2987
1870	25,00	50	54	18	18	2988
1871	25,40	50	54	18	18	2988
2488	32,00	50	54	18	18	2988

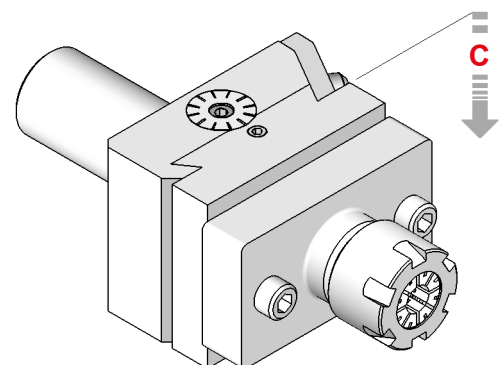
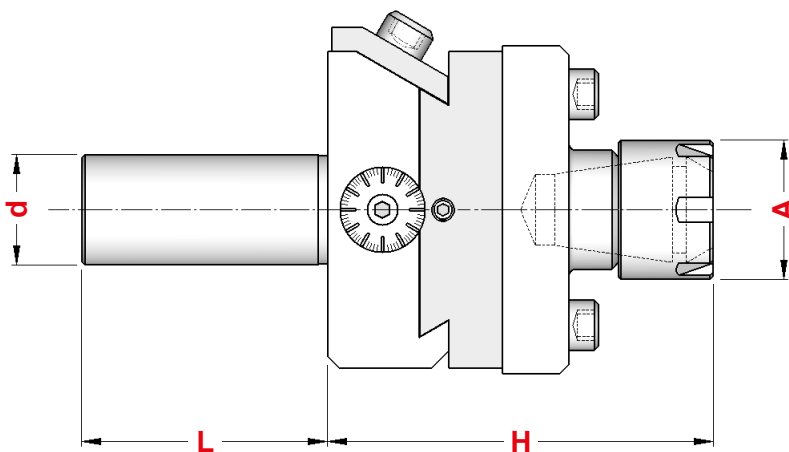


**PORTAUTENSILI MICROMETRICI PER INTERNI
 CON ATTACCO CILINDRICO E PINZA ER**

MICROMETRIC SETTING BORING TOOLHOLDERS WITH ER-DIN 6499 COLLET

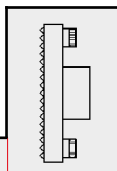


Art.	d	L	H	A	CAPACITA'	C				
1662	19,05	50	70	28	1,0 ÷ 13	18	2989	1230	5720	0787
1664	20,00	50	70	28	1,0 ÷ 13	18	2989	1230	5720	0787
1666	25,00	50	75	35	1,0 ÷ 16	18	2990	1231	5721	0996
1672	25,40	50	75	35	1,0 ÷ 16	18	2990	1231	5721	0996

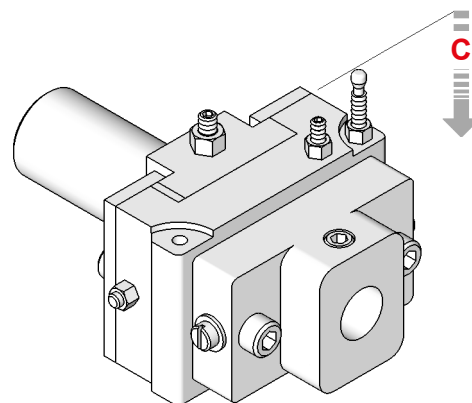
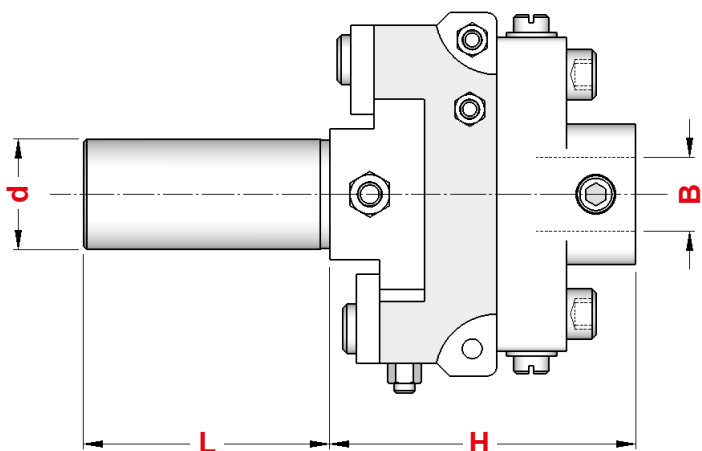


PORTAUTENSILI OSCILLANTI PER RECESSI CON ATTACCO CILINDRICO

STRAIGHT SHANK SLIDING TOOLHOLDERS FOR RECESSES

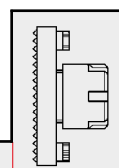


Art.	d	L	H	B	C	
2497	19,05	46	52	15	20	2987
1559	20,00	46	52	15	20	2987
2498	25,00	50	60	18	24	2988
2499	25,40	50	60	18	24	2988
1765	30,00	50	60	18	24	2988
2399	31,75	50	60	18	24	2988
1961	32,00	50	60	18	24	2988

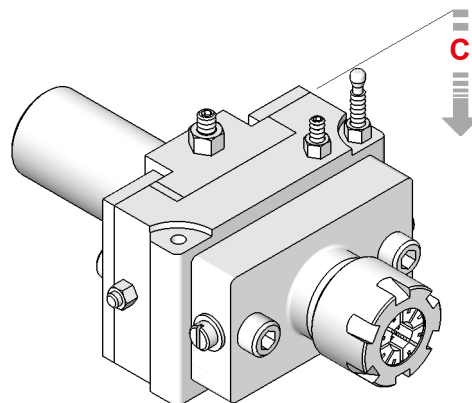
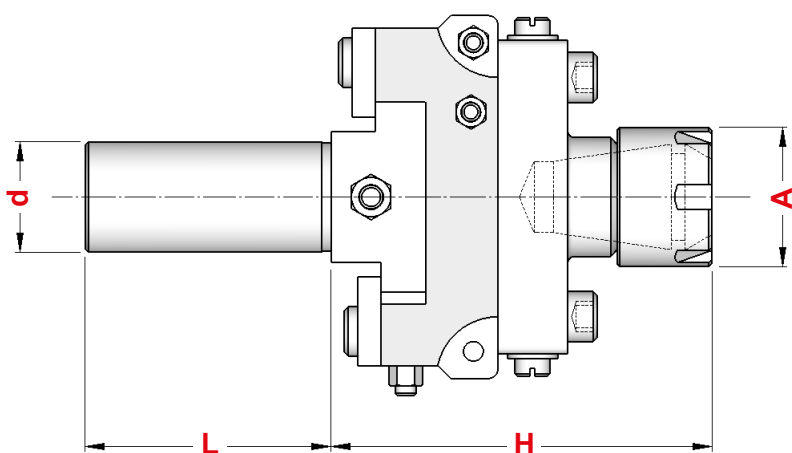


PORTAUTENSILI OSCILLANTI PER RECESSI CON ATTACCO CILINDRICO E PINZA ER

SLIDING TOOLHOLDERS FOR RECESSES WITH ER-DIN 6499 COLLET

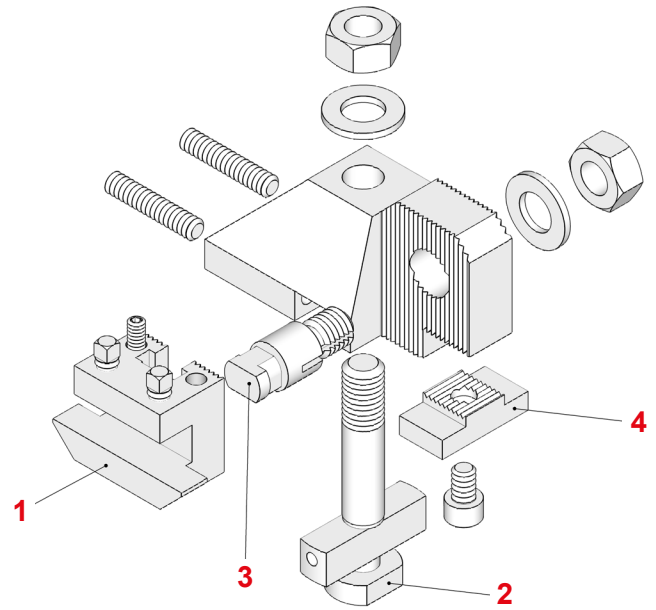
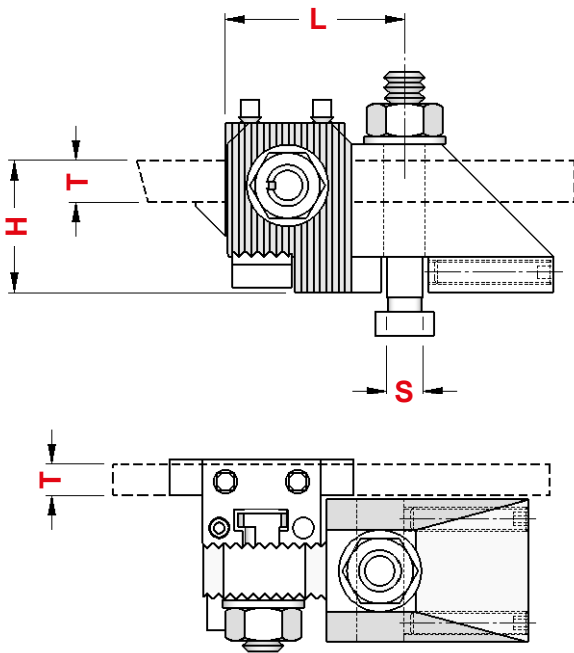


Art.	d	L	H	A	CAPACITA'	C				
1943	19,05	46	68	28	1,0 ÷ 13	20	2989	1230	5720	0787
1766	20,00	46	68	28	1,0 ÷ 13	20	2989	1230	5720	0787
2003	25,00	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
2023	25,40	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
1798	30,00	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
2024	31,75	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
2032	32,00	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996



PORTAUTENSILI TRASVERSALI PER INDEX E TRAUB

CROSSWISE TOOLHOLDERS FOR INDEX AND TRAUB



INDEX 12 - 18 - 25 TRAUB TD.16 - 26 - 36

L	H min	H max	T	S
46	16	32	10 x 10	10

Pos.	Art.	DESCRIZIONE
—	1880	Portautensile completo
1	2105	Portabarretta Semplice
2	2308	Perno di fissaggio Portautensile
3	2309	Perno di fissaggio Portabarretta
4	2753	Tassello di battuta
—	2656	Barretta dentata - Tooth Bar

INDEX 24 - 29 - 36 - 42 INDEX B.30 - 42

L	H min	H max	T	S
60	19	42	14 x 14	12

Pos.	Art.	DESCRIZIONE
—	1317	Portautensile completo
1	1984	Portabarretta Semplice
2	1986	Perno di fissaggio Portautensile
3	1987	Perno di fissaggio Portabarretta
4	2754	Tassello di battuta

INDEX 52 - 60 INDEX B.60

L	H min	H max	T	S
60	19	42	14 x 14	14

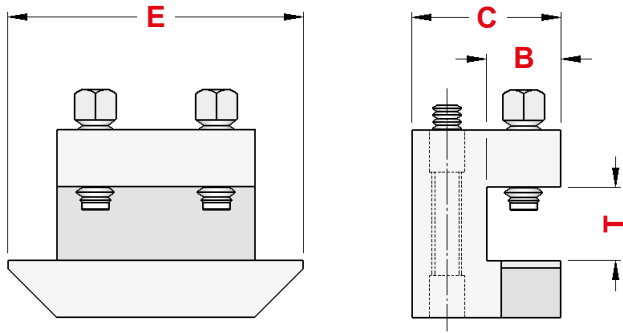
Pos.	Art.	DESCRIZIONE
—	2703	Portautensile completo
1	1984	Portabarretta Semplice
2	2285	Perno di fissaggio Portautensile
3	1987	Perno di fissaggio Portabarretta
4	2754	Tassello di battuta

TRAUB TB.30 - 42 - 60

L	H min	H max	T	S
60	19	42	14 x 14	15

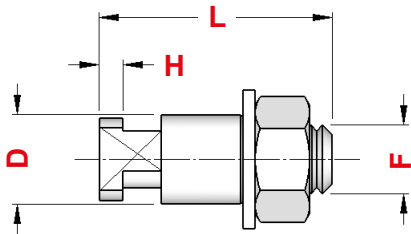
Pos.	Art.	DESCRIZIONE
—	2707	Portautensile completo
1	1984	Portabarretta Semplice
2	2397	Perno di fissaggio Portautensile
3	1987	Perno di fissaggio Portabarretta
4	2754	Tassello di battuta

PORTABARRETTE PER PORTAUTENSILI TRASVERSALI - TOOLPOSTS FOR CROSSWISE TOOLHOLDERS



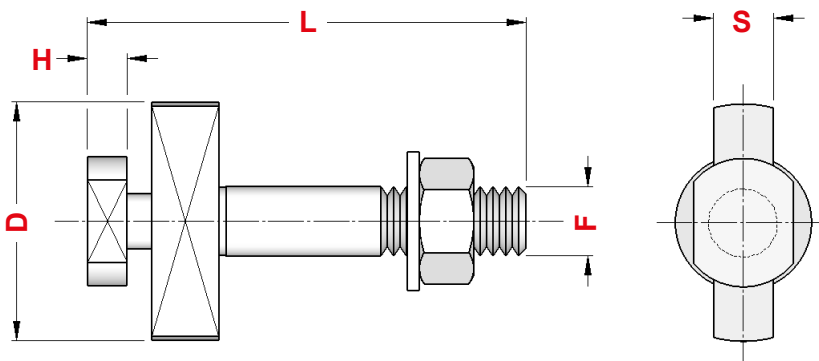
Art.	T	B	E	C	Passo	Tool
2105	10,5	10	48	22,5	1,5	10 x 10
2353	10,5	20,5	48	32	1,5	10 x 20
1984	15	15	60	30	1,5	14 x 14
1985	15	28,5	60	45	1,5	14 x 20
2662	16,2	32,5	64	52,5	1,5	16 x 32
2603	13	18	59	26	2	12 x 20

PERNI DI FISSAGGIO PORTABARRETTE - LOCKING PINS FOR TOOLPOSTS



Art.	F	D	L	H
2309	M 10	14	37	4
1987	M 14	18	47	5

PERNI DI FISSAGGIO PORTAUTENSILI TRASVERSALI - LOCKING PINS FOR CROSSWISE TOOLHOLDERS



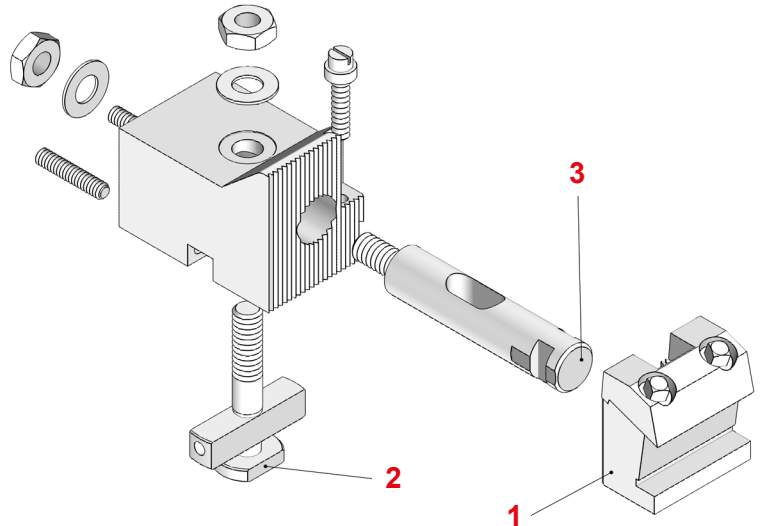
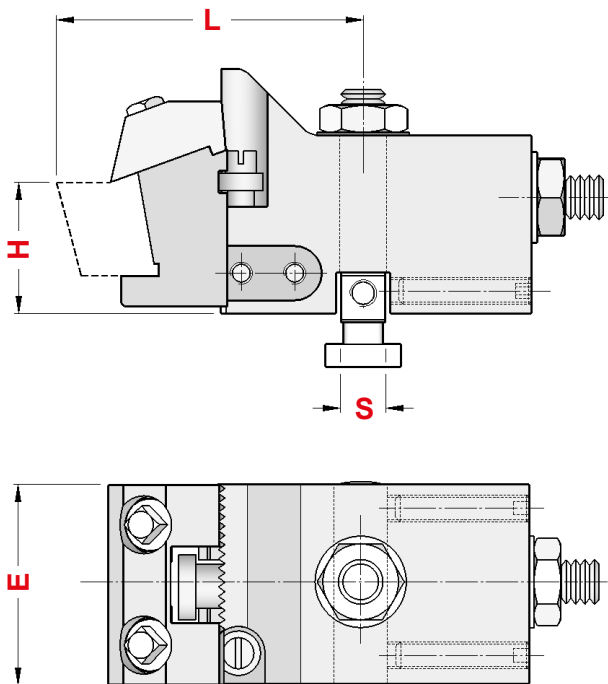
Art.	S	F	L	H	D
2308	10	M 10	59	5	29
1986	12	M 14	88	8	48
2285	14	M 14	88	8	48
2397	15	M 14	88	8	48

TASSELLI DI BATTUTA PER PORTAUTENSILI TRASVERSALI - DOWELS FOR CROSSWISE TOOLHOLDERS



Art.	L	C	H	Fig.
2753	30	30	13	1
2754	40	20	18	2

PORTAUTENSILI TRASVERSALI A SABLONARE PER INDEX E TRAUB
CROSSWISE TOOLHOLDERS FOR INDEX AND TRAUB



INDEX 12 - 18 - 25
TRAUB TD.16 - 26 - 36

L	H	E	S
65	23	45	10

Pos.	Art.	DESCRIZIONE
—	1601	Portautensile completo
1	2412	Portabarretta
2	2852	Perno di fissaggio Portautensile
3	2872	Perno di fissaggio Portabarretta

INDEX 24 - 29 - 36 - 42
INDEX B.30 - 42

L	H	E	S
87	30	50	12

Pos.	Art.	DESCRIZIONE
—	2017	Portautensile completo
1	2413	Portabarretta Semplice
2	1986	Perno di fissaggio Portautensile
3	2873	Perno di fissaggio Portabarretta

INDEX 52 - 60
INDEX B.60

L	H	E	S
87	30	50	14

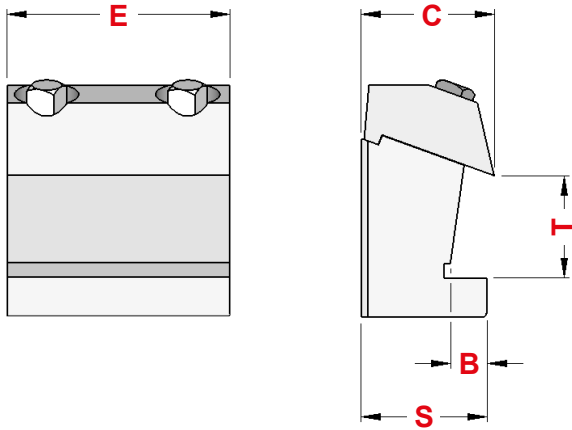
Pos.	Art.	DESCRIZIONE
—	2595	Portautensile completo
1	2413	Portabarretta Semplice
2	2285	Perno di fissaggio Portautensile
3	2873	Perno di fissaggio Portabarretta

TRAUB TB.30 - 42 - 60

L	H	E	S
87	30	50	15

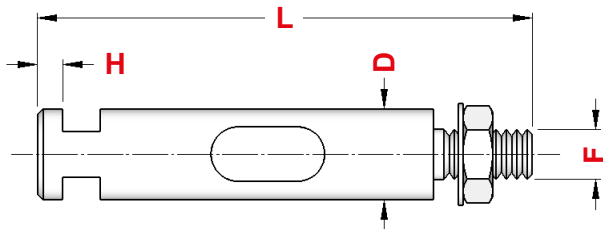
Pos.	Art.	DESCRIZIONE
—	2599	Portautensile completo
1	2413	Portabarretta Semplice
2	2397	Perno di fissaggio Portautensile
3	2873	Perno di fissaggio Portabarretta

PORTABARRETTE PER PORTAUTENSILI A SABLONARE - TOOLPOSTS FOR CROSSWISE TOOLHOLDERS



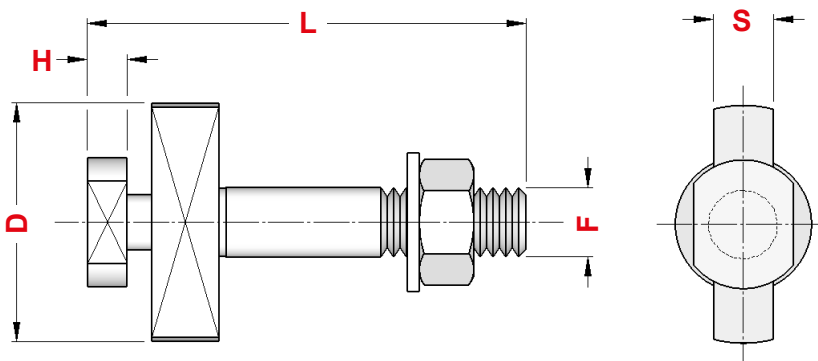
Art.	T	B	E	S	C	Passo	Tool
2412	22	7	45	24	24	1,5	25x45
2413	20	11	50	33	32	1,5	25x49
0622	24	16	48	41	34	2	25x49

PERNI DI FISSAGGIO PORTABARRETTE A SABLONARE - LOCKING PINS FOR TOOLPOSTS



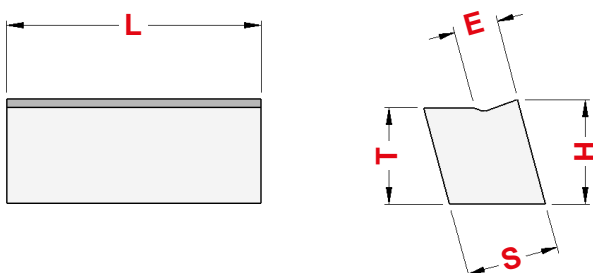
Art.	F	D	L	H
2872 (A)	M 10	18	100	5
2872 (B)	M 10	20	97	6
2873 (A)	M 14	20	128	7
2873 (B)	M 14	25	122	7

PERNI DI FISSAGGIO PORTAUTENSILI A SABLONARE - LOCKING PINS FOR CROSSWISE TOOLHOLDERS



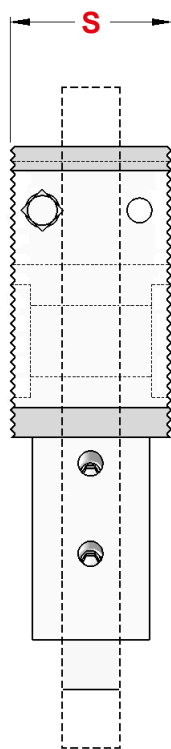
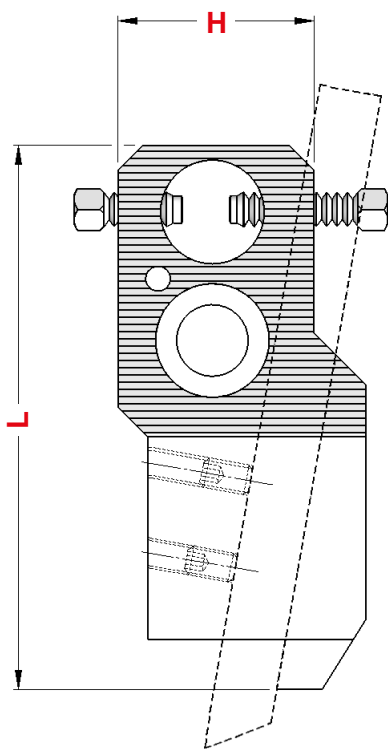
Art.	S	F	L	H	D
2852	10	M 10	67	5	48
1986	12	M 14	88	8	48
2285	14	M 14	88	8	48
2397	15	M 14	88	8	48

UTENSILI A SABLONARE - TOOLS



Art.	H	T	E	L	S
0389	25	23	6	45	14
0069	25	22	9	49	20

PORTAUTENSILI PER CARRELLI VERTICALI INDEX
 INDEX TOOLPOSTS FOR VERTICAL SLIDES

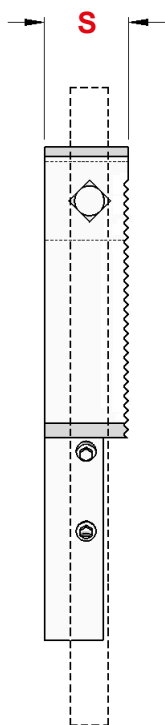
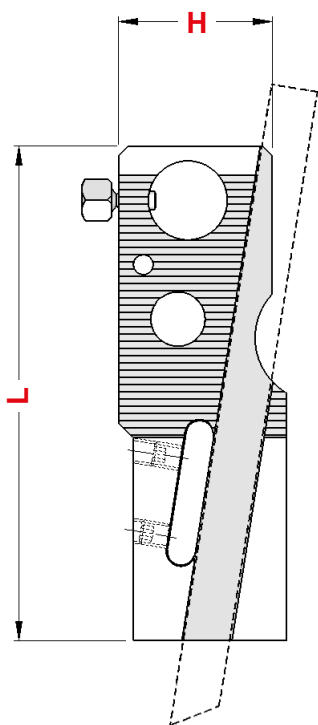


INDEX 12-18-25-DG.12
DO.12-ER.16-ER.25

Art.	L	H	S	UTENSILE
2583	82	35	26	Quadro (10 x 10)
2588	82	33	19	Piatto (10 x 4)
2586	82	33	19	Trapezio (10 x 4)

INDEX B.30-42-60-C.29

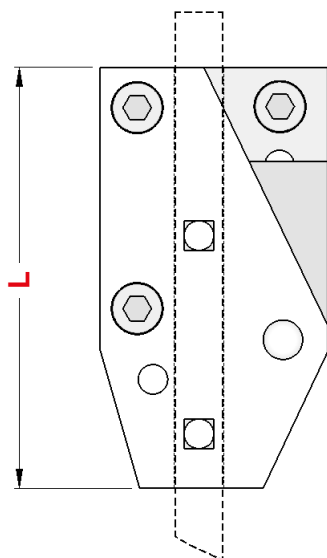
Art.	L	H	S	UTENSILE
2585	105	50	32	Quadro (14 x 14)
2587	109	40	23	Trapezio (15 x 6)



INDEX 12-18-25
DG.12-DO.12

Art.	L	H	S	UTENSILE
2589	82	33	15	Piatto (10 x 8)

PORTAUTENSILI PER CARRELLI VERTICALI TRAUB , SAIC E STROHM
 TOOLHOLDERS FOR TRAUB, SAIC AND STROHM VERTICAL SLIDES



TRAUB A.15-20-25

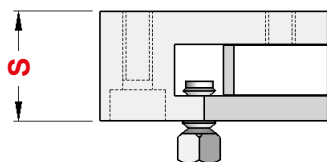
Art.	L	S	UTENSILE
1456	85	22	10 x 10

Art.	L	S	UTENSILE
2755	85	22	10 x 10

TRAUB A.26-36-42-60
TB.30-42-60

Art.	L	S	UTENSILE
1458	102	25	12 x 12

Art.	L	S	UTENSILE
2620	80	19	8 x 8

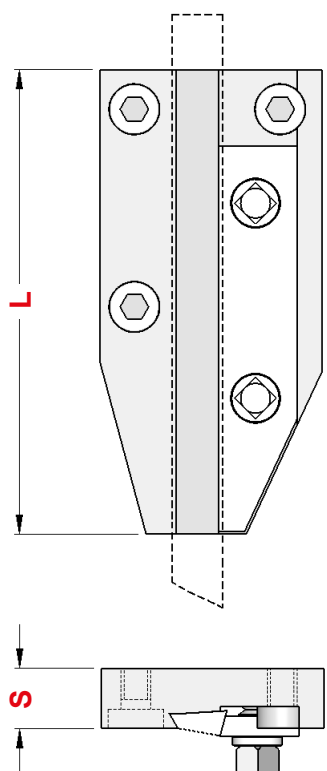


SAIC B.26-30

Art.	L	S	UTENSILE
1594	85	22	10 x 10

Art.	L	S	UTENSILE
1372	105	28	12 x 12

PORTAUTENSILI PER CARRELLI VERTICALI - UTENSILI A SEZIONE TRAPEZOIDALE
 HOLDERS FOR TRAPEZOIDAL TOOLS - VERTICAL SLIDES



TRAUB A.15-20-25

Art.	L	S	UTENSILE
1087	93	12	13 x 2 x 1 13 x 3 x 2

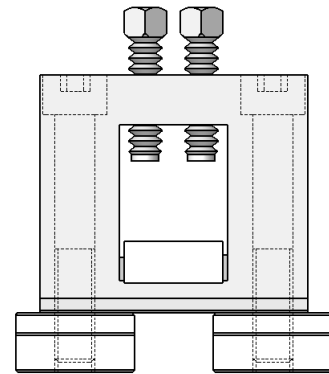
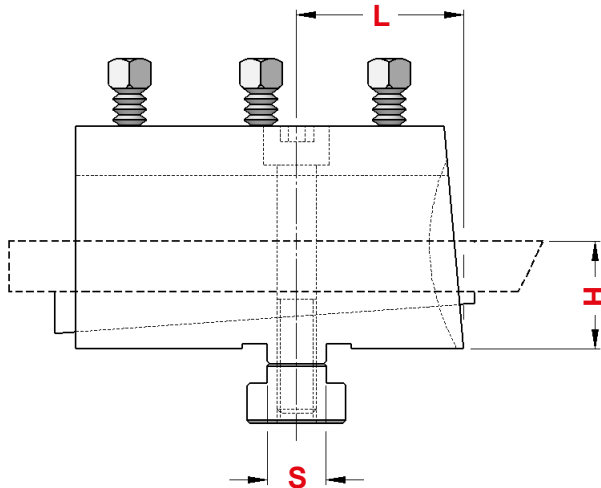
SAIC B.26-30

Art.	L	S	UTENSILE
0979	93	12	10 x 3 x 2

SAIC B.45

Art.	L	S	UTENSILE
0980	108	12	17 x 3 x 2 17 x 4 x 3

PORTAUTENSILI TRASVERSALI ANTERIORI - TIPO FISSO CHIUSO
FORE TOOLHOLDERS FOR CROSS SLIDE - FIXED CLOSED TYPE



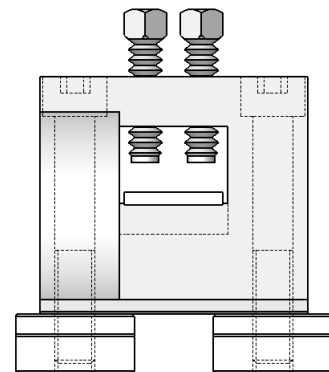
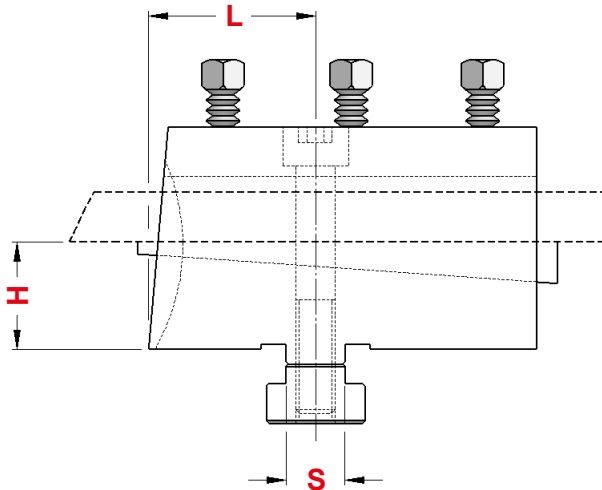
TRAUB A.15 - 20 - 25
GIORGI GM.20 - 25 - 32
ITS 26 - SAIC B.26 - 30

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	TIPO	H	L	S	UTENSILE
1291	DOPPIO / Double	22	36	12	10 x 20
1295	TRIPLO / Triple	22	36	12	10 x 30
1830	QUADRUPLO / Quadruple	22	36	12	10 x 40

Art.	TIPO	H	L	S	UTENSILE
1293	DOPPIO / Double	40	65	15	12 x 25
1297	TRIPLO / Triple	40	65	15	12 x 40

PORTAUTENSILI TRASVERSALI POSTERIORI - TIPO FISSO CHIUSO
REAR TOOLHOLDERS FOR CROSS SLIDE - FIXED CLOSED TYPE



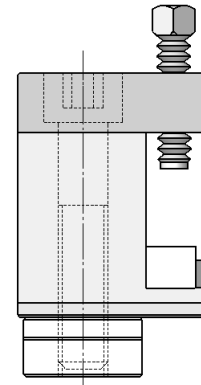
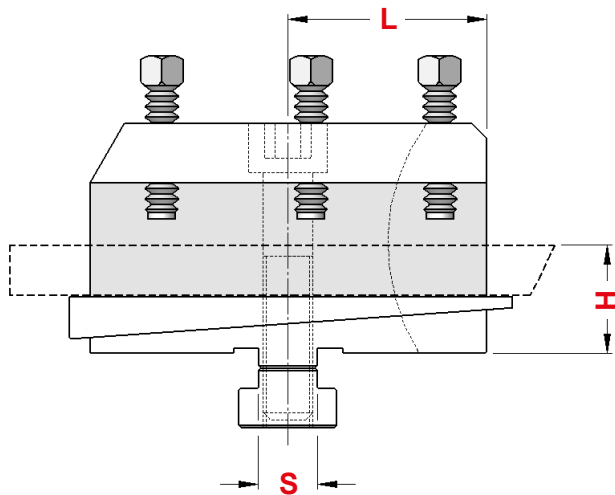
TRAUB A.15 - 20 - 25
GIORGI GM.20 - 25 - 32
ITS 26 - SAIC B.26 - 30

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	TIPO	H	L	S	UTENSILE
1292	DOPPIO / Double	22	36	12	10 x 20
1296	TRIPLO / Triple	22	36	12	10 x 30
1831	QUADRUPLO / Quadruple	22	36	12	10 x 40

Art.	TIPO	H	L	S	UTENSILE
1294	DOPPIO / Double	40	65	15	12 x 25
1298	TRIPLO / Triple	40	65	15	12 x 40

PORTAUTENSILI TRASVERSALI ANTERIORI - TIPO FISSO APERTO
 FORE TOOLHOLDERS FOR CROSS SLIDE - FIXED OPEN TYPE



TRAUB A.15 - 20 - 25
GIORGI GM.20 - 25 - 32
ITS 26 - SAIC B.26 - 30

TRAUB TD.16 - 26 - 36

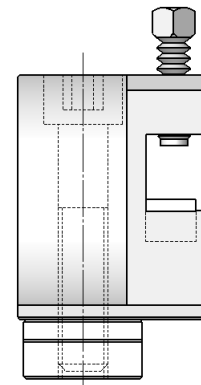
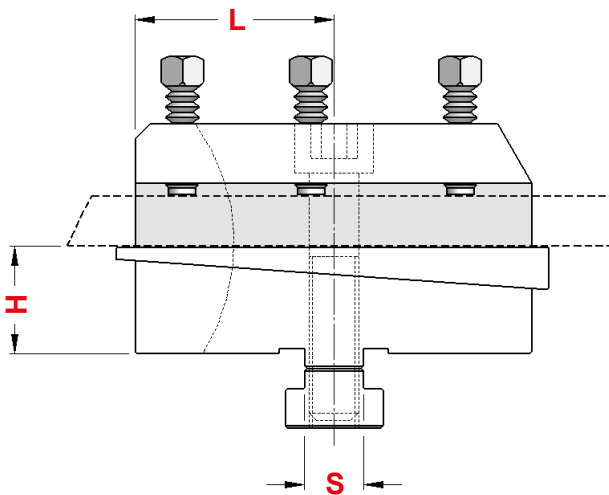
TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	H	L	S	UTENSILE
1561	22	38	12	10 x 10

Art.	H	L	S	UTENSILE
1514	30	50	10	12 x 12

Art.	H	L	S	UTENSILE
1303	40	62,5	15	12 x 12

PORTAUTENSILI TRASVERSALI POSTERIORI - TIPO FISSO APERTO
 REAR TOOLHOLDERS FOR CROSS SLIDE - FIXED OPEN TYPE



TRAUB A.15 - 20 - 25
GIORGI GM.20 - 25 - 32
ITS 26 - SAIC B.26 - 30

TRAUB TD.16 - 26 - 36

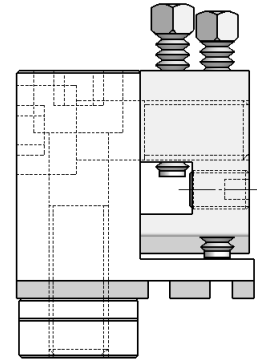
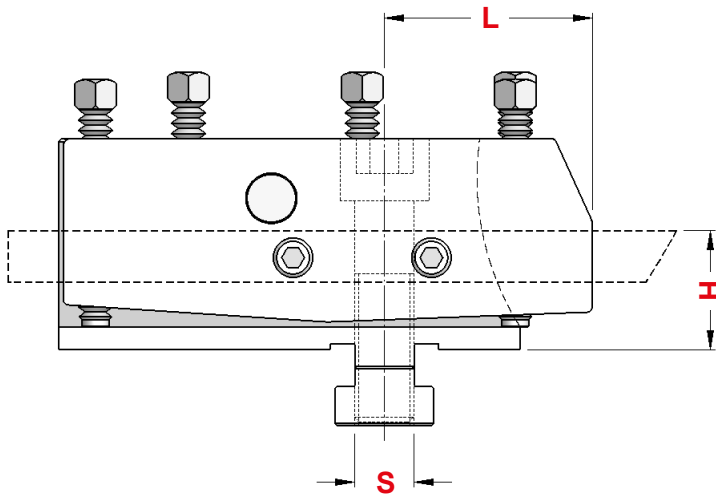
TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	H	L	S	UTENSILE
1563	22	38	12	10 x 10

Art.	H	L	S	UTENSILE
1515	30	50	10	12 x 12

Art.	H	L	S	UTENSILE
1304	40	62,5	15	12 x 12

PORTAUTENSILI TRASVERSALI ANTERIORI - TIPO OSCILLANTE CHIUSO
 FORE TOOLHOLDERS FOR CROSS SLIDE - SWINGING CLOSED TYPE



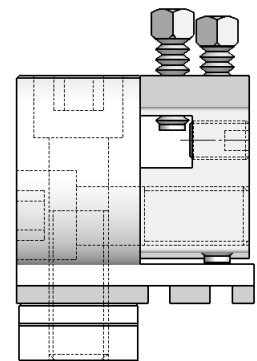
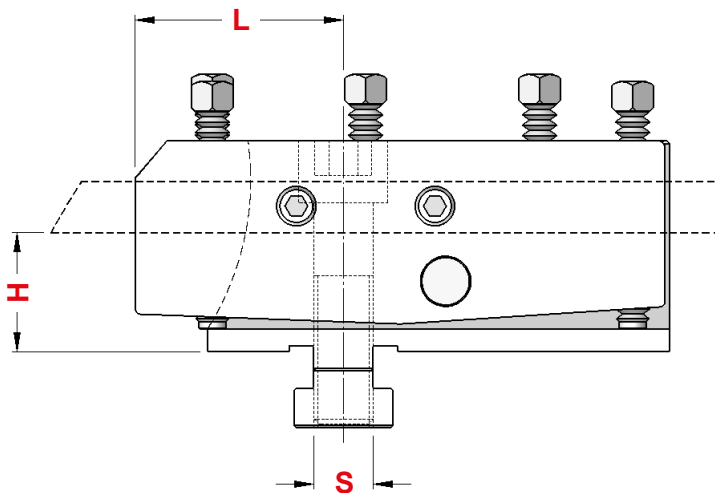
TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	H	L	S	UTENSILE
1007	22	41	12	10 x 10

Art.	H	L	S	UTENSILE
1009	40	58	15	12 x 12

PORTAUTENSILI TRASVERSALI POSTERIORI - TIPO OSCILLANTE CHIUSO
 REAR TOOLHOLDERS FOR CROSS SLIDE - SWINGING CLOSED TYPE



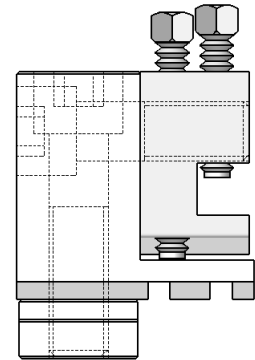
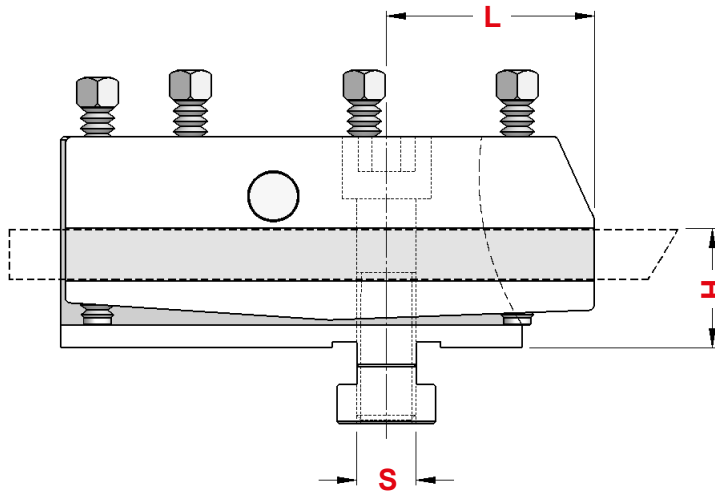
TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	H	L	S	UTENSILE
1008	22	41	12	10 x 10

Art.	H	L	S	UTENSILE
1010	40	58	15	12 x 12

PORTAUTENSILI TRASVERSALI ANTERIORI - TIPO OSCILLANTE APERTO
 FORE TOOLHOLDERS FOR CROSS SLIDE - SWINGING OPEN TYPE



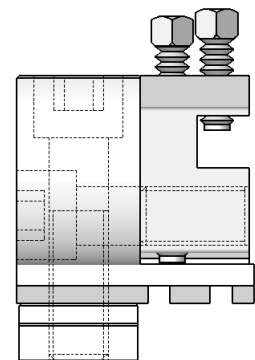
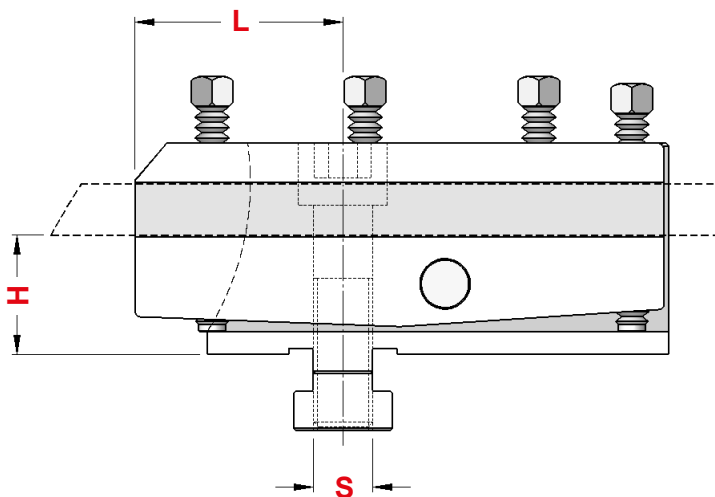
TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	TIPO	H	L	S	UTENSILE
1322	SEMPLICE / Simple	22	41	12	10 x 10
1330	DOPPIO / Double	22	41	12	10 x 20

Art.	TIPO	H	L	S	UTENSILE
2481	SEMPLICE / Simple	40	62	15	12 x 12
2487	DOPPIO / Double	40	62	15	12 x 25

PORTAUTENSILI TRASVERSALI POSTERIORI - TIPO OSCILLANTE APERTO
 REAR TOOLHOLDERS FOR CROSS SLIDE - SWINGING OPEN TYPE



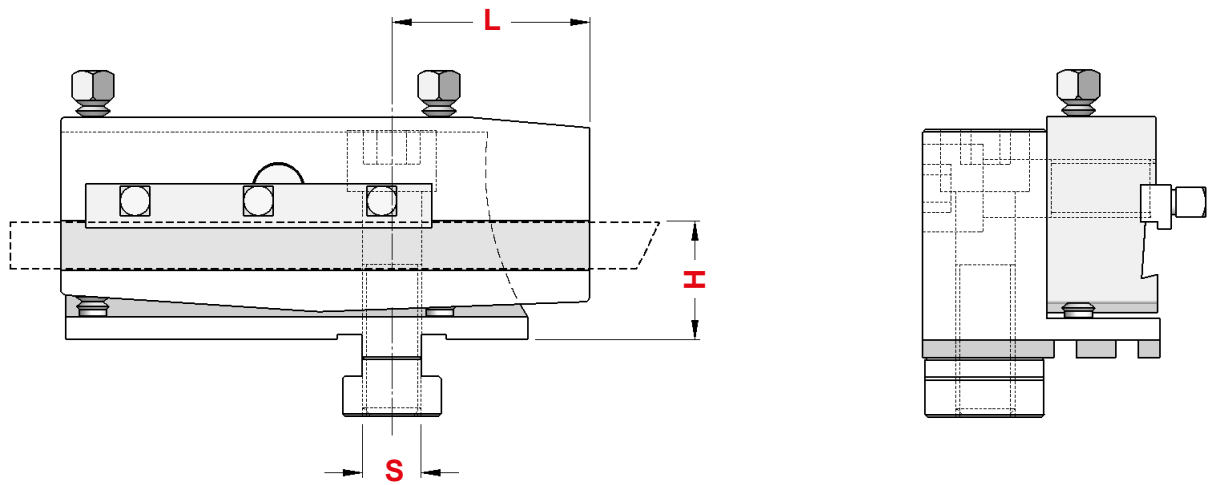
TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
ITS 60 - SAIC B.45

Art.	TIPO	H	L	S	UTENSILE
1323	SEMPLICE / Simple	22	41	12	10 x 10
1331	DOPPIO / Double	22	41	12	10 x 20

Art.	TIPO	H	L	S	UTENSILE
2482	SEMPLICE / Simple	40	62	15	12 x 12
2489	DOPPIO / Double	40	62	15	12 x 25

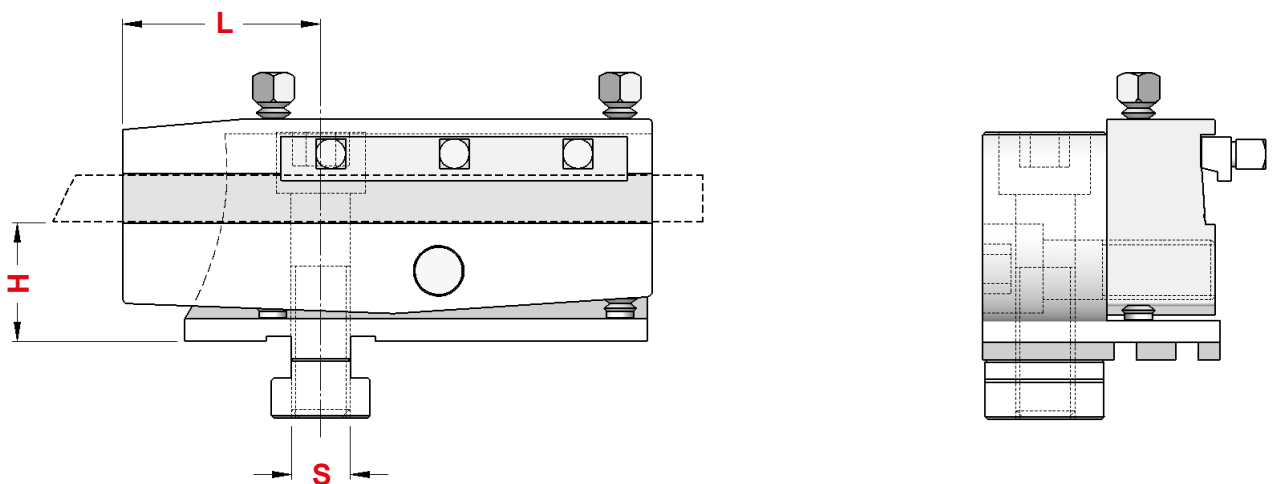
PORTAUTENSILI TRASVERSALI ANTERIORI - TIPO OSCILLANTE
PER UTENSILI A SEZIONE TRAPEZOIDALE
FORE TOOLHOLDERS FOR CROSS SLIDE - SWINGING FOR TRAPEZOID TOOLS



TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26

Art.	H	L	S	UTENSILE
1485	22	40	12	13 x 3 x 2

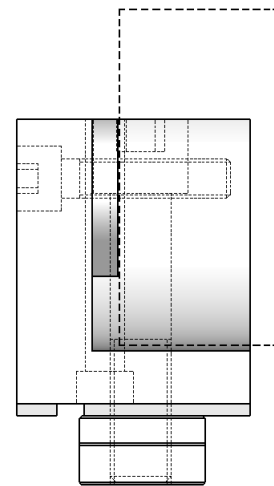
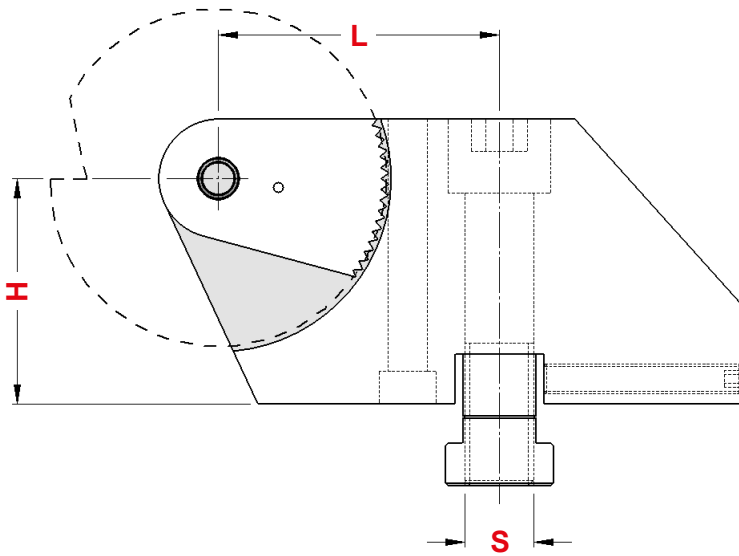
PORTAUTENSILI TRASVERSALI POSTERIORI - TIPO OSCILLANTE
PER UTENSILI A SEZIONE TRAPEZOIDALE
REAR TOOLHOLDERS FOR CROSS SLIDE - SWINGING FOR TRAPEZOID TOOLS



TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26

Art.	H	L	S	UTENSILE
1484	22	40	12	13 x 3 x 2

PORTAUTENSILI TRASVERSALI ANTERIORI - TIPO FISSO
PER UTENSILI A DISCO
 FORE TOOLHOLDERS FOR CROSS SLIDE - FIXED FOR ROUND TOOLS



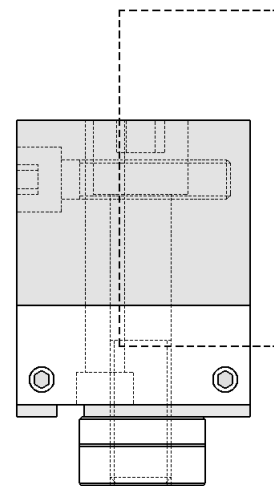
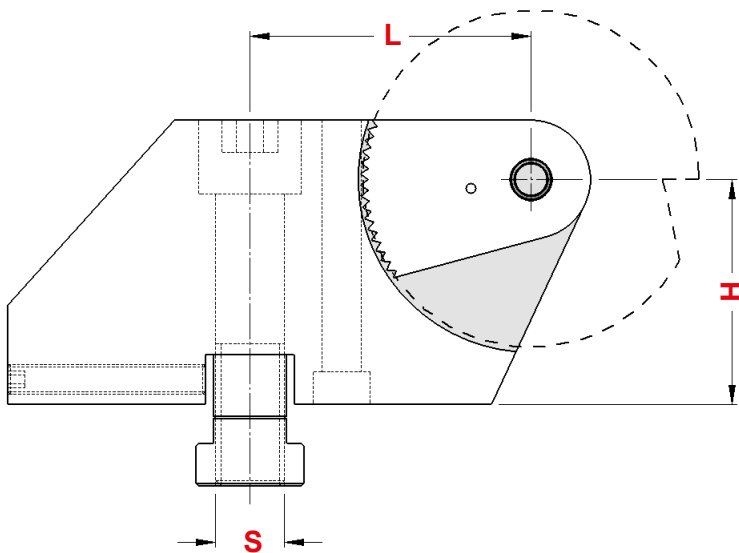
TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26 - 30

TRAUB A.26 - 36 - 42 - 60
ITS 60 - SAIC B.45

Art.	TIPO	H	L	S
1003	ANTERIORE	22	43	12

Art.	TIPO	H	L	S
1005	ANTERIORE	40	55	15

PORTAUTENSILI TRASVERSALI POSTERIORI - TIPO FISSO
PER UTENSILI A DISCO
 REAR TOOLHOLDERS FOR CROSS SLIDE - FIXED FOR ROUND TOOLS



TRAUB A.15 - 20 - 25
ITS 26 - SAIC B.26 - 30

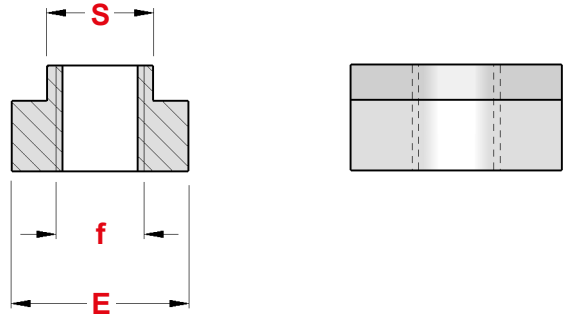
TRAUB A.26 - 36 - 42 - 60
ITS 60 - SAIC B.45

Art.	TIPO	H	L	S
1004	POSTERIORE	22	43	12

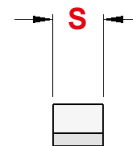
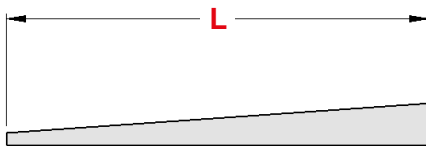
Art.	TIPO	H	L	S
1006	POSTERIORE	40	55	15

TASSELLI DI BLOCCAGGIO PER PORTAUTENSILI ORIZZONTALI
TOOLHOLDERS LOCKING DOWELS FOR ORIZONTAL TOOL HOLDERS

MACCHINA	Art.	f	E	S
GIORGI GM.20 - 25 - 32	1149	M 10	20	12
	1150	M 12	20	12
ITS 26	1149	M 10	20	12
	1150	M 12	20	12
ITS 36 - 42 - 60	1131	M 10	22	15
	1667	M 12	22	15
	1591	M 14	22	15
SAIC B.26 - 30	1149	M 10	20	12
	1150	M 12	20	12
SAIC B.45	1131	M 10	22	15
	1667	M 12	22	15
	1591	M 14	22	15
TRAUB A.15 - 20 - 25	1149	M 10	20	12
	1150	M 12	20	12
TRAUB A.36 - 42 - 60	1131	M 10	22	15
	1667	M 12	22	15
	1591	M 14	22	15



BIETTE
WEDGES



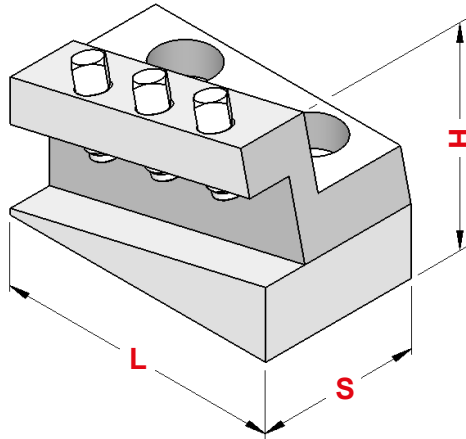
TRAUB A.15 - 20 - 25
GIORGI GM.20 - 25 - 32
ITS 26 - SAIC B.26 - 30

Art.	S	L
1170	10	85
1536	20	85
2029	30	85

TRAUB A.26 - 36 - 42 - 60
TRAUB TB.30 - 42 - 60
TRAUB TD.16 - 26 - 36
ITS 60 - SAIC B.45

Art.	S	L
1656	15	120
1576	25	120
1828	40	120

PORTAUTENSILI PER CARRELLI TORNITURA LONGITUDINALE TRAUB E SAIC
 LONGITUDINAL TURNING TOOLHOLDERS TRAUB AND SAIC



TRAUB A.15 - 20 - 25

Art.	L	H	S	UTENSILE
1457	66	44	37	10 x 10

TRAUB A.26 - 36 - 42 - 60

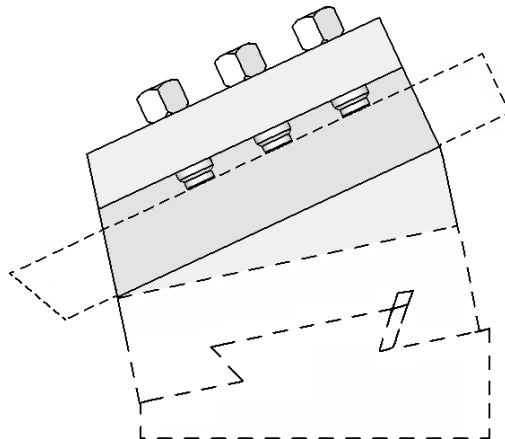
Art.	L	H	S	UTENSILE
1472	98	49	72,5	12 x 12

TRAUB TB.30 - 42 - 60

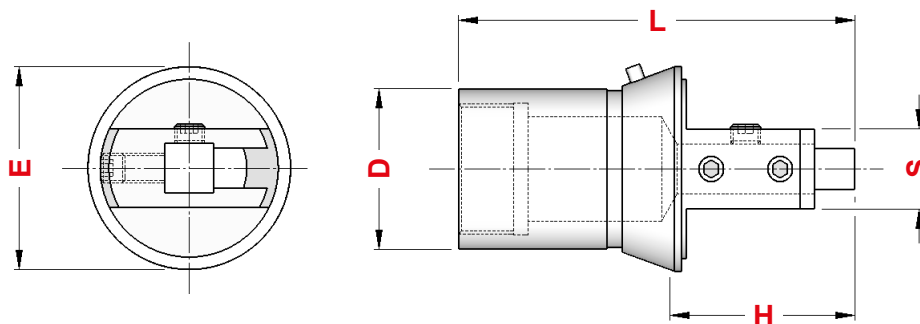
Art.	L	H	S	UTENSILE
2102	63	50	50	12 x 12

SAIC B.26 - 30

Art.	L	H	S	UTENSILE
1457	66	44	37	10 x 10

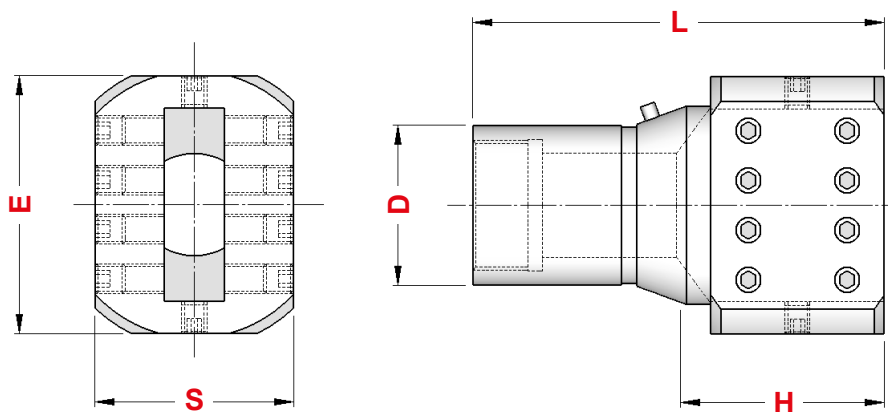


PORTABARRETTE PER INDEX TIPO E/ER 42 - 60
TOOLPOSTS FOR INDEX E/ER 42-60 TYPE



Art.	D	L	H	E	S	UTENSILE
1655	32	80	40	41	16	10 x 10
1654	32	80	40	41	19	14 x 14
1467	32	80	40	41	25	16 x 16
0635	32	80	40	41	28	16 x 20

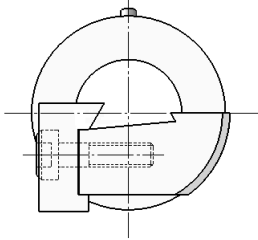
PORTABARRETTE MULTIPLO PER INDEX TIPO E/ER 42 - 60
MULTIPLE TOOLPOST FOR INDEX E/ER 42-60 TYPE



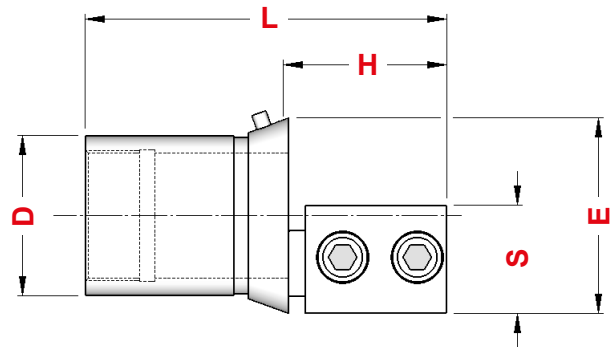
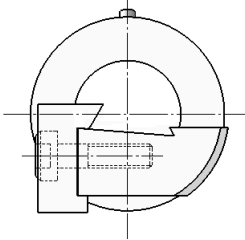
Art.	D	L	H	E	S	SEDE UTENSILE
1466	32	82	42	52	40	42 x 12

PORTABARRETTE A TRONCARE PER INDEX TIPO E/ER 42-60
 CUTTING OFF TOOLPOSTS FOR INDEX E/ER 42-60 TYPE

Taglio Destro
 Right Cut

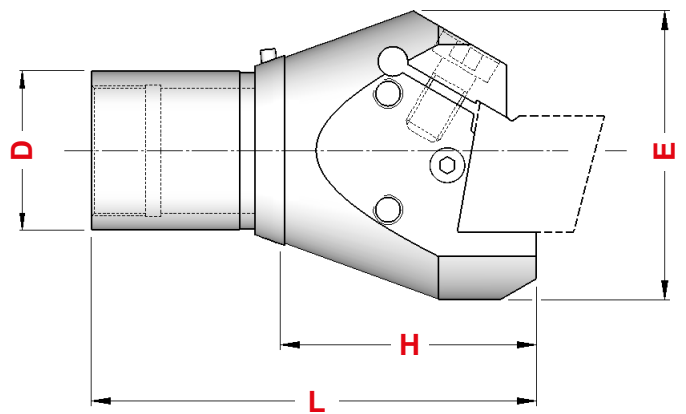
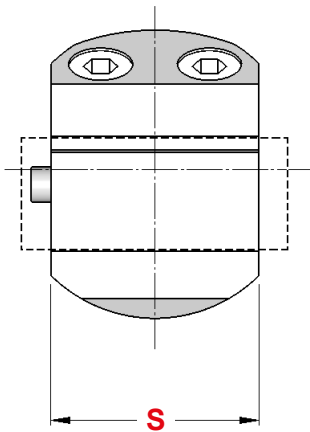


Taglio Sinistro
 Left Cut

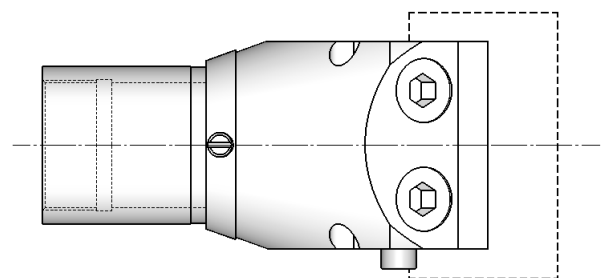


Art.	TIPO	D	L	H	E	S	UTENSILE
1468	DESTRO / Right	32	82	42	41	22	17 x 4 x 3
1469	SINISTRO / Left	32	82	42	41	22	17 x 4 x 3

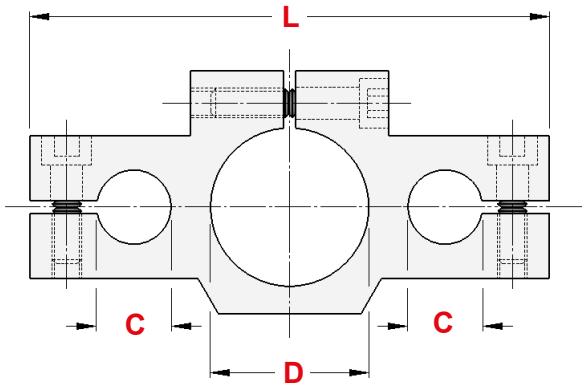
PORTAUTENSILE A PROFILO COSTANTE PER INDEX TIPO E/ER 42-60
 CONSTANT OUTLINE TOOLHOLDER FOR INDEX E/ER 42-60 TYPE



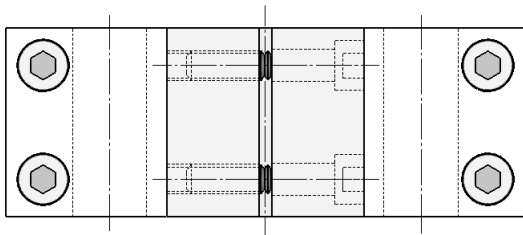
Art.	D	L	H	E	S	SEDE UTENSILE
2781	32	90	50	57	42	25 x 42



FLANGIA PORTABARRETTA TOOLPOST FLANGE



Art.	D	C	L
1022	30	15	98
1583	32	15	105
1584	36	15	110
1029	40	22	125
1490	42	22	125
1030	45	22	125
1491	46	22	125



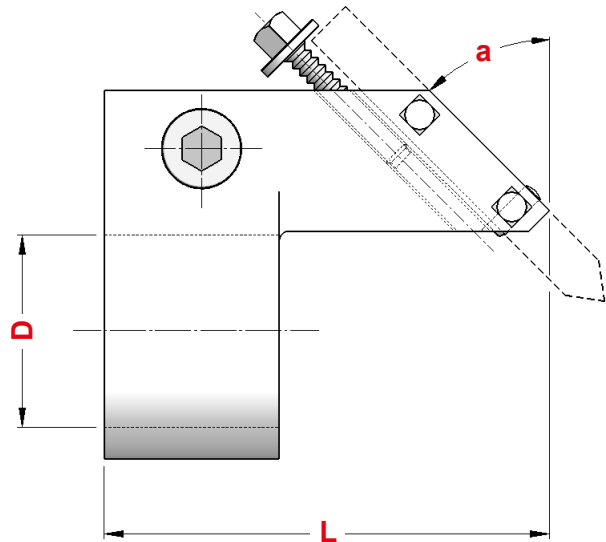
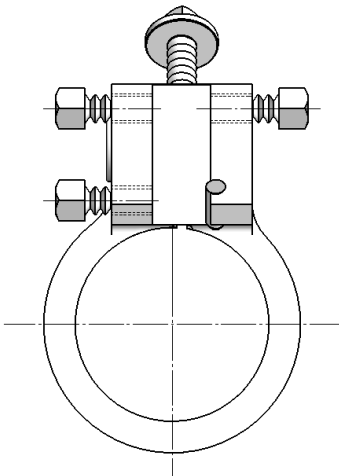


**Potete trovare
i Portabarrette
a pag. 277**

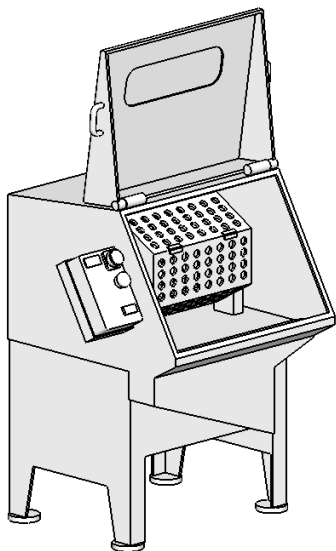
*You can find Toolposts
on page 277*



PORTAUTENSILI PER FINITURA E SMUSSO FINISHING AND BLUNTING TOOLPOSTES



Art.	D	L	α	UTENSILE
2098	23	60	15°	8 x 8
1256	26	36	30°	8 x 8
1016	30	70	15°	8 x 8
1015	30	75	30°	8 x 8
1026	30	80	45°	8 x 8
1269	36	80	45°	10 x 10
2086	40	76	15°	10 x 10
2095	40	80	30°	10 x 10
1027	40	90	45°	10 x 10
2096	42	90	45°	10 x 10



LAVATRICE DA Kg.50
WASHING MACHINE CAPACITY Kg.50

Lavatrice con cestello rotante per il lavaggio o la barilatura di minuterie metalliche tornite o tranciate. La macchina è dotata di PLC per la gestione del ciclo di lavaggio; il posizionamento per il carico e lo scarico del cestello avviene in automatico. La rimozione delle scorie di lavaggio è facilitata dalla presenza di un ampio sportello posteriore. La macchina viene fornita assemblata e pronta all'uso. A richiesta la lavatrice può essere dotata di resistenze per il riscaldamento fino a 40° del liquido di lavaggio. Utilizzare solo prodotti chimici specifici seguendo le indicazioni del fabbricante.

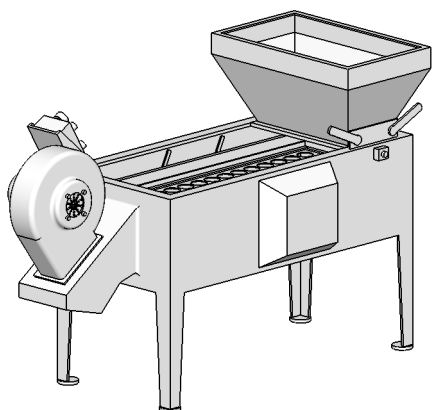
- Velocità rotazione cesto giri/1' 13
- Dimensioni cesto Ø esterno mm 360 x mm 500 lunghezza
- Sgrassante in vasca litri 150/160
- Potenza installata kw. 0,75 (220/380 V trifase 50 Hz)
- Ingombro macchina / Peso mm 1.225 x 866 x H 1.261 / kg 136

LAVATRICE DA Kg.100
WASHING MACHINE CAPACITY Kg.100

Macchina con caratteristiche e funzionamento uguali al modello da Kg.50 ma date le maggiori dimensioni è possibile avere un carico di lavaggio doppio.

- Velocità rotazione cesto giri/1' 13
- Dimensioni cesto Ø esterno mm 360 x mm 1.000 lunghezza
- Sgrassante in vasca litri 240/250
- Potenza installata kw. 1 (220/380 V trifase 50 Hz)
- Ingombro macchina / Peso mm 1.725 x 866 x H 1.261 / kg 212

SETACCIATRICE
SIFTING MACHINE



Grazie alla doppia funzione di vibrazione e ventilazione questa macchina è ideale per la separazione di minuterie metalliche dai trucioli di lavorazione e/o dai granuli dopo la barilatura. Viene consegnata completa di piedini antivibranti ed un setaccio a scelta nella gamma di produzione.

- Accessori opzionali :
- la dimensione dei setacci è mm 1.320 x 500 e sono disponibili con maglie quadre da :
mm 2,7 - 4 - 6 - 8 - 10 - 12 - 15 - 18 - 22 - 26
 - convogliatore di trucioli per evacuatore
 - flange per il fissaggio degli antivibranti a pavimento
 - inverter per la regolazione della frequenza di vibrazione
 - Dimensioni pezzi setacciabili mm 1,5 - 60
 - Capacità carico sul setaccio Kg 40
 - Potenza installata kw. 0,7 (220/380 V trifase 50 Hz)
 - Rumorosità della macchina a vuoto dbA < 70
 - Ingombro macchina / Peso mm 2.046 x 949 x H 1.318 / Kg 176

BARRETTE IN ACCIAIO SUPER RAPIDO **TENAX**

RODS IN SUPERRAPID STEEL

Il marchio TENAX produce barrette trattate e rettificate. La gamma presentata comprende acciai con diverso tenore di Cobalto per rispondere alle differenti esigenze di lavorazione, velocità e tipologie di materiale. Scegliete il vostro tipo di barretta tra TENAX 1, 2 e 3

TENAX brand produces hardened and grinded rods. Presented range includes steels with different titer in Cobalt to meet the different working needs, speeds and materials. Chose your kind of rod between TENAX 1, 2 and 3.

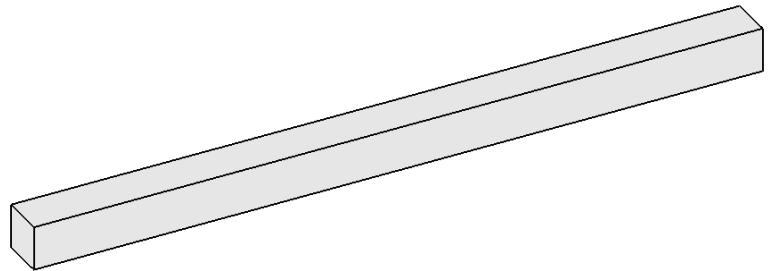
TIPO	% Cobalto	% Vanadio
TENAX 1	10,5	3,5
TENAX 2	9	1,2
TENAX 3	5	1,9

Barrette quadre

Gamma da Q. 4 a Q. 30
Lunghezza mm 150 e mm 200

Square Rods

Range from square 4 to square 30
Length mm 150 and mm 200

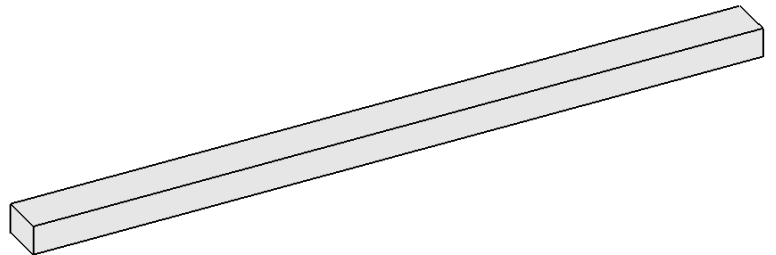


Barrette piatte

Gamma da 8x6 a 40x30
Lunghezza mm 150 e mm 200

Flat Rods

Range from 8x6 to 40x30
Length mm 150 and mm 200

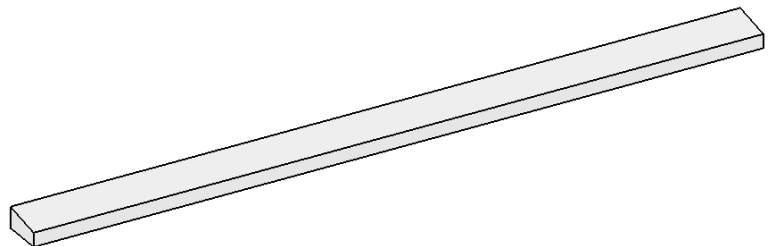


Barrette trapezoidali

Gamma da 10x3x2 a 30x6x5
Lunghezza mm 150 e mm 200

Trapezoidal Rods

Range from 10x3x2 to 30x6x5
Length mm 150 and mm 200

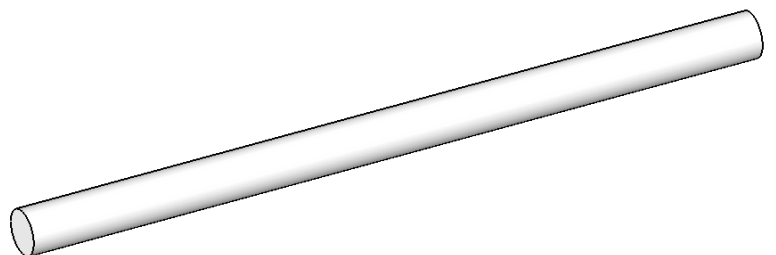


Barrette tonde

Gamma da \varnothing 2 a \varnothing 30
Lunghezza mm 100, mm 150 e mm 200

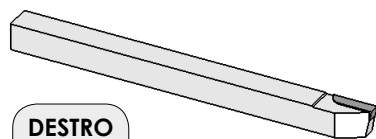
Round Rods

Range from \varnothing 2 to \varnothing 30
Length mm 100, mm 150 and mm 200

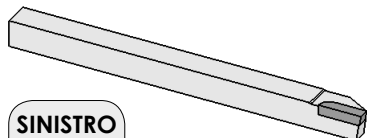


UTENSILI SALDOBRASATI CON METALLO DURO PER PASSATA

BRAZED WELDED CARBIDE TOOLS FOR TURNING



DESTRO
RIGHT



SINISTRO
LEFT

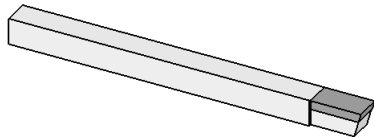
STELO	Destro	Sinistro	L	PLACCHETTA
	Right	Left		GRADO 895
Art.	Art.	Art.		
6 x 6	9251	9261	130	20 x 3 x 2
7 x 7	9252	9262	140	20 x 3 x 2
8 x 8	9253	9263	140	20 x 3 x 2
10 x 10	9254	9264	150	20 x 4 x 2,5
12 x 12	9255	9265	160	20 x 4 x 2,5
14 x 14	9256	9266	160	20 x 5 x 3
16 x 16	9257	9267	160	20 x 6 x 3
20 x 20	9258	9268	160	20 x 8 x 4

CON PLACCHETTA MAGGIORATA


10 x 10	9259	9269	150	20 x 5 x 3
12 x 12	9260	9270	160	20 x 5 x 3

UTENSILI SALDOBRASATI CON METALLO DURO FRONTALE A INCASSO-TUFFO

BRAZED WELDED CARBIDE TOOLS FOR AXIAL TURNING

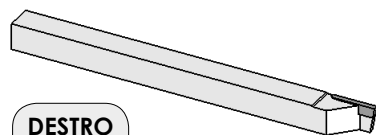


PLACCHETTA
GRADO 883

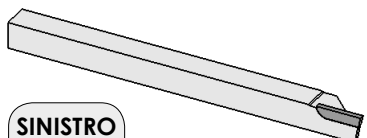
STELO	Art.	L	
8 x 8	9271	140	16 x 8 x 2,5
10 x 10	9272	150	20 x 10 x 3
12 x 12	9273	160	20 x 12 x 3
14 x 14	9274	160	20 x 14 x 4
16 x 16	9275	160	20 x 16 x 4
20 x 20	9276	160	20 x 20 x 4
25 x 25	9277	160	20 x 25 x 5

UTENSILI SALDOBRASATI CON METALLO DURO A TRONCARE


BRAZED WELDED CARBIDE TOOLS FOR PARTING-OFF AND GROOVING



DESTRO
RIGHT

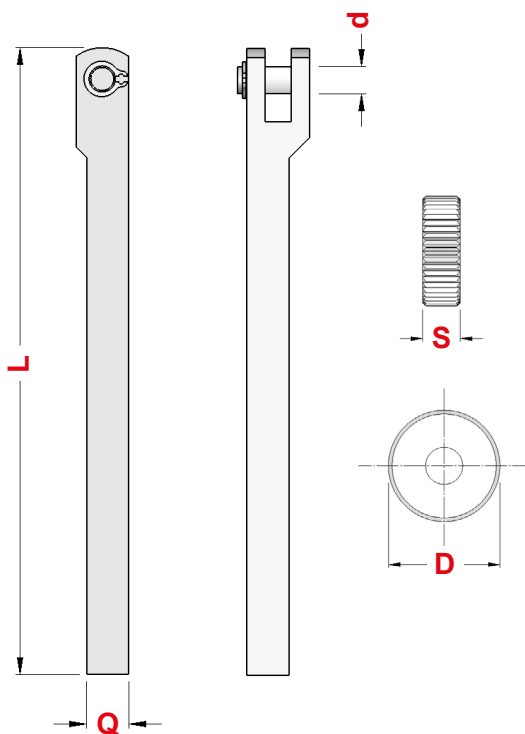
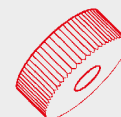


SINISTRO
LEFT

STELO	Destro	Sinistro	L	PLACCHETTA
	Right	Left		GRADO 883
Art.	Art.	Art.		
6 x 6	9281	9291	130	20 x 3 x 2
7 x 7	9282	9292	140	20 x 3 x 2
8 x 8	9283	9293	140	20 x 3 x 2
10 x 10	9284	9294	150	20 x 4 x 2,5
12 x 12	9285	9295	160	20 x 4 x 2,5
14 x 14	9286	9296	160	20 x 5 x 3
16 x 16	9287	9297	160	20 x 6 x 3
20 x 20	9288	9298	160	20 x 8 x 4

PORTAGODRONI PER RICALCO CON STELO QUADRO

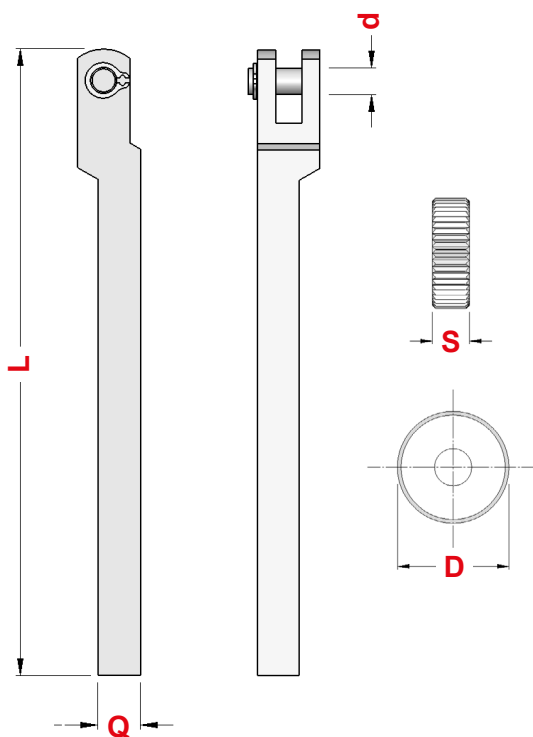
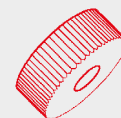
SQUARE SHANK KNURLING-WHEEL HOLDERS



Art.	Q	L	D	d	S	PERNO	GODRONE
1280	6 x 6	120	12	4	4	0094	12 x 4 foro ø 4
1281	6 x 6	120	15	5	5	0204	15 x 5 foro ø 5
1282	7 x 7	120	12	4	4	0094	12 x 4 foro ø 4
1283	7 x 7	120	15	5	5	0204	15 x 5 foro ø 5
1284	8 x 8	120	12	4	4	0094	12 x 4 foro ø 4
1285	8 x 8	120	15	5	5	0204	15 x 5 foro ø 5
1352	10 x 10	120	12	4	4	0094	12 x 4 foro ø 4
1286	10 x 10	120	15	5	5	0204	15 x 5 foro ø 5
1410	10 x 10	120	20	6	6	0267	20 x 6 foro ø 6
1287	10 x 10	120	20	6	8	0267	20 x 8 foro ø 6
1411	10 x 10	120	20	6	10	0096	20 x 10 foro ø 6
1360	12 x 12	120	15	5	5	0204	15 x 5 foro ø 5
1362	12 x 12	120	20	6	6	0267	20 x 6 foro ø 6
1288	12 x 12	120	20	6	8	0267	20 x 8 foro ø 6
1363	12 x 12	120	20	6	10	0096	20 x 10 foro ø 6
1364	16 x 16	120	20	6	8	0267	20 x 8 foro ø 6
1371	16 x 16	120	20	6	10	0267	20 x 10 foro ø 6
1381	20 x 20	120	20	6	8	0267	20 x 8 foro ø 6
1461	20 x 20	120	20	6	10	0096	20 x 10 foro ø 6

PORTAGODRONI PER RICALCO CON STELO QUADRO - DISASSATI

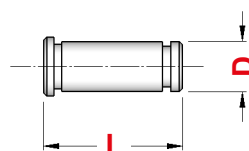
MISALIGNED SQUARE SHANK KNURLING-WHEEL HOLDERS



Art.	Q	L	D	d	S	PERNO	GODRONE
2111	8 x 8	120	12	4	4	0094	12 x 4 foro ø 4
2112	8 x 8	120	15	5	5	0204	15 x 5 foro ø 5
2113	10 x 10	120	15	5	5	0204	15 x 5 foro ø 5
2114	10 x 10	130	20	6	8	0267	20 x 8 foro ø 6
2115	12 x 12	130	20	6	8	0267	20 x 8 foro ø 6

PERNI PER PORTAGODRONI

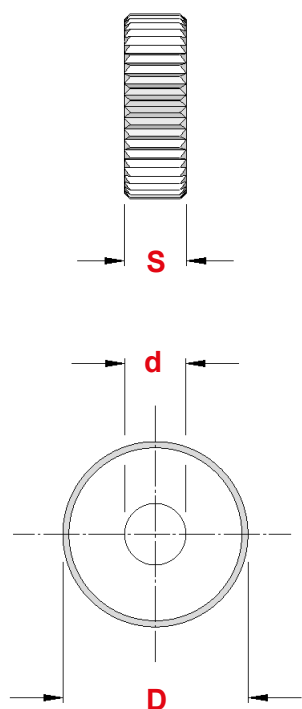
PINS FOR KNURLING-WHEEL HOLDERS

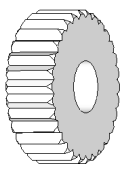
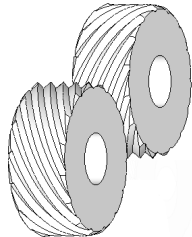
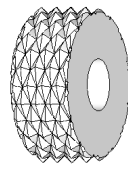


Art.	d	L
0094	4	14
0204	5	14
0267	6	18
0096	6	20

GODRONI IN HSS PER DEFORMAZIONE E RICALCO

KNURLING WHEELS



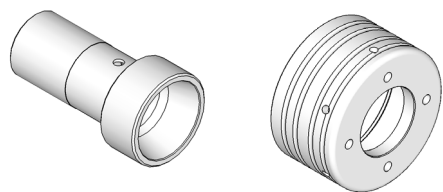
	TIPO	Dimensioni D x S x d	Art.	Passo - Step
	DIRITTO	8 x 4 x 3	9101	0,3 - 0,4 - 0,5 - 0,6 - 0,7 0,8 - 0,9 - 1,0 - 1,2 - 1,5
		10 x 4 x 3	9102	
		10 x 4 x 4	9103	
		12 x 4 x 4	9104	
		15 x 4 x 4	9105	
		15 x 5 x 4	9106	
		15 x 5 x 5	9107	
		20 x 6 x 6	9108	
		20 x 8 x 6	9109	
		20x10x 6	9110	
	DESTRO 45°	8 x 4 x 3	9111	0,3 - 0,4 - 0,5 - 0,6 - 0,7 0,8 - 1,0 - 1,2 - 1,5
		10 x 4 x 3	9112	
		10 x 4 x 4	9113	
		12 x 4 x 4	9114	
		15 x 4 x 4	9115	
		15 x 5 x 4	9116	
		15 x 5 x 5	9117	
		20 x 6 x 6	9118	
		20 x 8 x 6	9119	
		20x10x 6	9120	
	SINISTRO 45°	8 x 4 x 3	9121	0,3 - 0,4 - 0,5 - 0,6 - 0,7 0,8 - 1,0 - 1,2 - 1,5
		10 x 4 x 3	9122	
		10 x 4 x 4	9123	
		12 x 4 x 4	9124	
		15 x 4 x 4	9125	
		15 x 5 x 4	9126	
		15 x 5 x 5	9127	
		20 x 6 x 6	9128	
		20 x 8 x 6	9129	
		20x10x 6	9130	
DESTRO 30°	15 x 4 x 4	9135	0,4 - 0,5 - 0,6 - 0,8 1,0 - 1,2 - 1,5 - 2,0	
	15 x 5 x 4	9136		
	20 x 8 x 6	9139		
SINISTRO 30°	15 x 4 x 4	9145	0,4 - 0,5 - 0,6 - 0,8 1,0 - 1,2 - 1,5 - 2,0	
	15 x 5 x 4	9146		
	20 x 8 x 6	9149		
	INCROCIATO 45° SPORGENTE	10 x 4 x 3	9152	0,3 - 0,4 - 0,5 - 0,6 - 0,7 0,8 - 1,0 - 1,2 - 1,5
		10 x 4 x 4	9153	
		12 x 4 x 4	9154	
		15 x 4 x 4	9155	
		15 x 5 x 4	9156	
		15 x 5 x 5	9157	
		20 x 6 x 6	9158	
		20 x 8 x 6	9159	
	20x10x 6	9160		
	INCROCIATO 45° INCASSATO	15 x 4 x 4	9175	0,3 - 0,4 - 0,5 - 0,6 0,8 - 1,0 - 1,2 - 1,5
		15 x 5 x 4	9176	
		15 x 5 x 5	9177	
		20 x 8 x 6	9179	
15 x 4 x 4		9185		
SPINATO 30° SPORGENTE	15 x 5 x 4	9186	0,4 - 0,5 - 0,6 - 0,8 1,0 - 1,2 - 1,5 - 2,0	
	20 x 8 x 6	9189		
	15 x 4 x 4	9195		
SPINATO 30° INCASSATO	15 x 5 x 4	9196	0,4 - 0,5 - 0,6 - 0,8 1,0 - 1,2 - 1,5	
	20 x 8 x 6	9199		

Tutte le versioni sono fornibili in **Metallo Duro**
All the types can be supplied in **Hard Metal**

INDICE DEI RICAMBI PER TORNIO AUTOMATICO

INDEX OF SPARES FOR AUTOMATIC LATHES

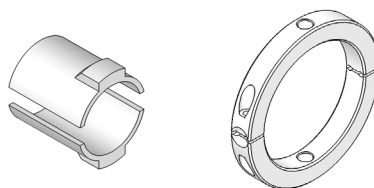
BICCHIERI E CUFFIE SLEEVES AND NOSE CAPS



Programma
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da
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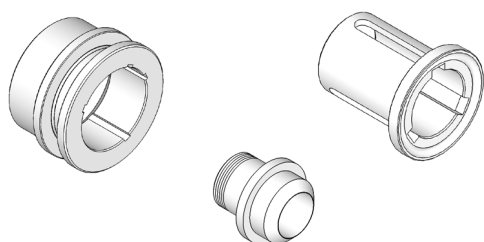
SETTORI DI CHIUSURA PINZA TWIN SECTORS FOR COLLET CLOSING



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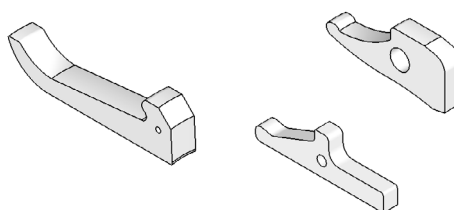
MANICOTTI SCORREVOLI CHUCK LEVER SLEEVES



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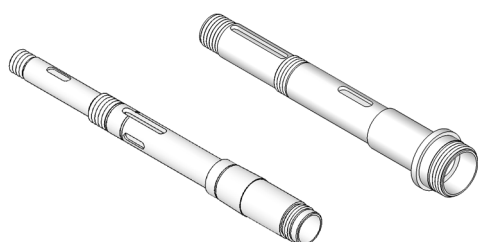
LEVETTE DI CHIUSURA PINZA LEVERS FOR COLLET CLOSING



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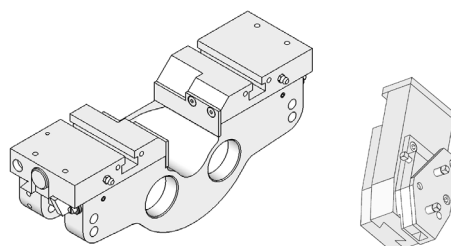
MANDRINI PRINCIPALI MAIN SPINDLES



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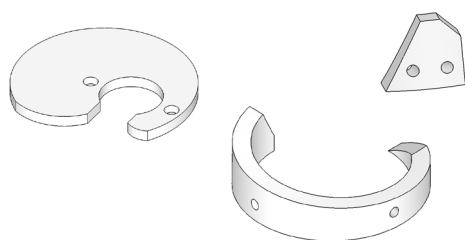
SUPPORTI E CARRELLI MOUNTINGS AND SLIDES



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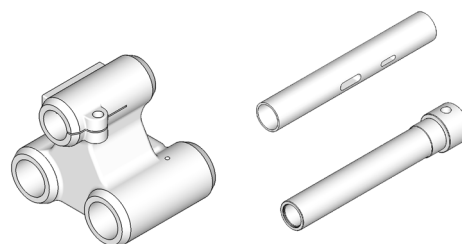
CAMMES E PORTACAMMES CAMMS



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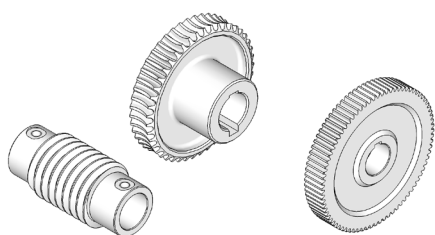
CONTROPUNTE E CANOTTI TAILSTOCKS AND SLEEVES



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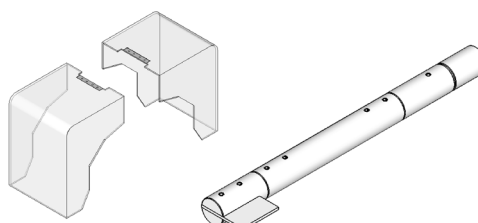
INGRANAGGI GEARS



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BANDIERINE E CAPPOTTE BAR PUSHERS AND COVERS

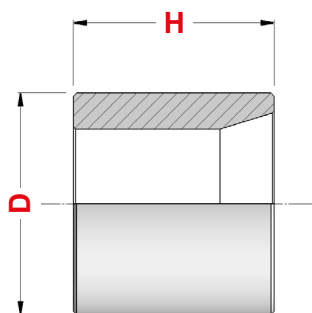


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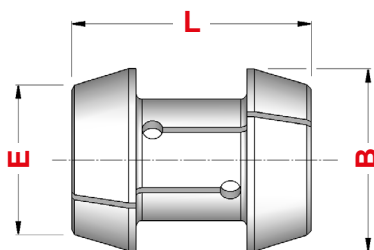
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BICCHIERI E GHIERE PER PINZE DOPPIO CONO

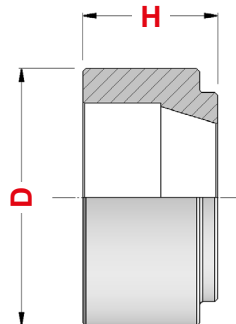
SLEEVES AND NOSE CAPS FOR DOUBLE CONE COLLETS



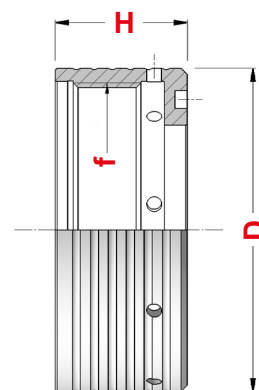
SEMICONO POSTERIORE
REAR SEMICONE



PINZA DOPPIO CONO
DOUBLE CONE COLLET



SEMICONO ANTERIORE
HEAD SEMICONE



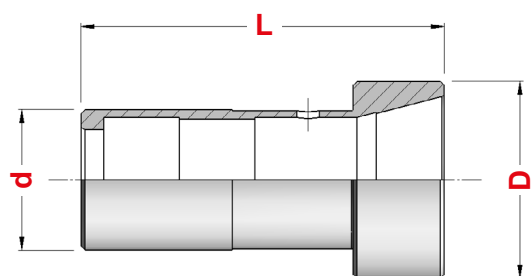
GHIERA
NOSE CAP

R = Riduzione per altro modello di pinza
Reduction for other kind of collet

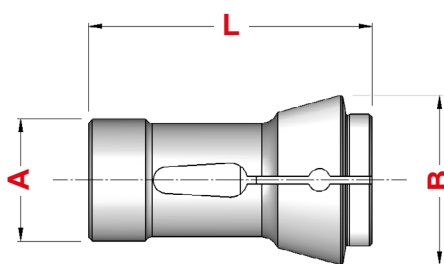
MACCHINA	Art.	D	H	Art.	B	L	E	Art.	D	H	Art.	D	H	f
BIGLIA 110 - 131S	2480 SP	104	60	0927	91	100	80	—	—	—	2480 C	152	54	128 x 1,5
BIGLIA 110 - 131S R	2471 SP	104	60	0756	71,6	100	60	—	—	—	2471 C	152	54	128 x 1,5
BIGLIA 110 - 131S R	2469 SP	104	80	0739	60	80	49	—	—	—	2469 C	152	54	128 x 1,5
BIGLIA 131 B.10 R	5726 SP	104/70	195	0739	60	80	49	—	—	—	2469 C	152	54	128 x 1,5
BIGLIA 131 S.4 R	3179 SP	104/70	134	0756	71,6	100	58	—	—	—	2471 C	152	54	128 x 1,5
CASER TA.26	1774 SP	38	24	0704	34,5	74	28	1774 SA	48	27	1774 C	73,5	40	61 x 3
CASER TA.30 R	1778 SP	42	36	0704	34,5	74	28	1778 SA	52	40	1778 C	75	39	64 x 3
CASER TA.50	1835 SP	60/84	103	0854	70	80	60	1835 SA	84	36	1835 C	108	53	98 x 3
GIORGI GM.25	1826 SP	37	38	0704	34,5	74	28	1826 SA	50	37	1851 C	79	42	70 x 3 SX
GIORGI GM.32 R	1851 SP	44	39	0704	34,5	74	28	1851 SA	56	42	1508 C	79	42	70 x 3 SX
ITS 26	1826 SP	37	38	0704	34,5	74	28	1826 SA	50	37	1769 C	74	39	61 x 3
SAIC B.26	1770 SP	37	55	5337	34	56	27	1770 SA	50	37	1826 C	77	38	68 x 3
SAIC B.26	1826 SP	37	38	0704	34,5	74	28	1826 SA	50	37	1826 C	77	38	68 x 3
SAIC A.30 - 32	2393 SP	42	39	0916	40,5	75	33	2393 SA	55	37	2393 C	80	39,5	72 x 2
SAIC B.45	1779 SP	58/68	84	0739	60	80	49	1779 SA	70	30	1779 C	103	50	88 x 4
TRAUB A.15	1772 SP	33	15	0843	26	55	18	—	—	—	1772 C	52	45	43,5 x 2
TRAUB A.25	1791 SP	37	40	0704	34,5	74	28	1791 SA	52	37	1791 C	72	39	62 x 2,5
TRAUB TD.26	1734 SP	40	40	0704	34,5	74	28	1734 SA	54	28	1734 C	78	40	70 x 3
TRAUB A.42	1785 SP	54	58	0753	50	80	39	1785 SA	68	38	1785 C	91	46	80 x 3
TRAUB TB.42	1785 SP	54	58	0753	50	80	39	1785 SA	68	38	1785 C	91	46	80 x 3
TRAUB TK.42	1785 SP	54	58	0753	50	80	39	1785 SA	68	38	1785 C	91	46	80 x 3
TRAUB A.60 R	1767 SP	74	67	0739	60	80	49	1956 SA	86	45	1956 C	105	44,5	98 x 3
TRAUB TB.60 R	1956 SP	74	89	0739	60	80	49	1956 SA	86	45	1956 C	105	44,5	98 x 3
UNAMUNO 25	1791 SP	37	40	0704	34,5	74	28	1791 SA	52	37	1791 C	72	39	62 x 2,5

BICCHIERI E GHIERE PER PINZE CONO SEMPLICE

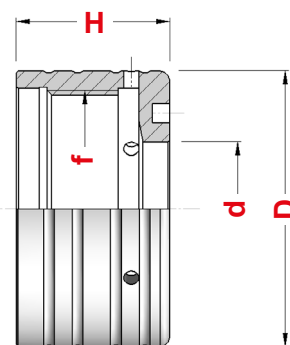
SLEEVES AND NUTS FOR SINGLE CONE COLLETS



BICCHIERE
COLLET SLEEVE



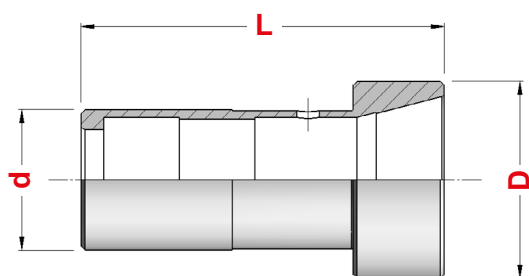
PINZA CONO SEMPLICE
SINGLE CONE COLLET



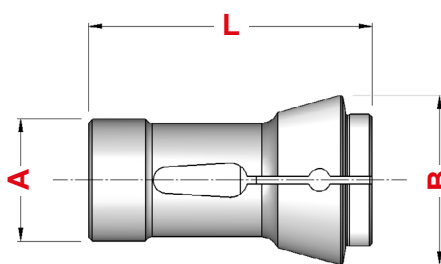
GHIERA
NOSE CAP

R = Riduzione per altro modello di pinza
Reduction for other kind of collet

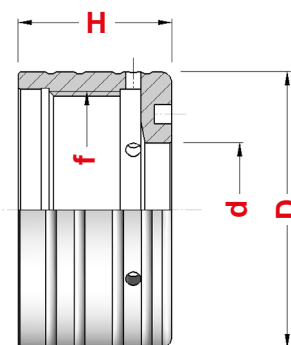
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ATA 40	1900	60	70	103	0666	—	52	63	92	—	—	—	—	—
BECHET RM.1968 R	1657	36	40	82	0717	145E	25	35	77	—	—	—	—	—
BECHLER A.10	1628	20	24	62	0740	117E	14	18	46	—	—	—	—	—
BECHLER BR.16	1795	34	40	91	0743	139E	22	28	67	—	—	—	—	—
BECHLER BR.20	1796	34	42	100	0746	146E	26	32	67	—	—	—	—	—
BROWN E SHARPE 00G	2313	30,15	33,35	60	—	141E	23,8	28,57	63,5	—	—	—	—	—
CASER TA.26	1952	38	48	79	0701	161E	32	45	75	2254	73,5	35	40	61 x 3
CASER TA.30	1739	42	52	88	0764	163E	35	48	80	1366	75	39	39	64 x 3
FEINLER FA.10	1752	20	24	86	0722	120E	15	21	64	0104	38	15,5	23	32 x 1,5
FEINLER FA.15	1751	27	32/37	61	0705	140E	22	30	55	1195	46	22,5	26	40 x 1,5
GAUTHIER GM.12	1643	18	24	97,8	0722	120E	15	21	64	—	—	—	—	—
GIORGI GM.20	2699	34	46	82	0713	148E	28	38	70	2631	72	29	41	60 x 2,5 Sg N
GIORGI GM.25	1745	37	50	92	0701	161E	32	45	75	1760	79	35	42	70 x 3 Sg N
GIORGI GM.30	2241	44	56	92,2	0764	163E	35	48	80	2247	79	39	42	70 x 3 Sg N
GIORGI GM.32	1493	44	56	92,2	0837	—	38	50,3	86	1508	79	42	42	70 x 3 Sg N
GIORGI GM.32 R	2616	44	56	92,2	0701	161E	32	45	75	1760	79	35	42	70 x 3 Sg N
INDEX 12	1133	28	38	68	0705	140E	22	30	55	2255	64,5	22	31,5	52 x 2 Sg N-SX
INDEX DG.12	1270	30	38	63,5	0671	143E	25	31	54	1271	62	24	23	52 x 2 Sg N-SX
INDEX DG.12 R	1272	30	38	63,5	0705	140E	22	30	55	1279	62	22	23	52 x 2 Sg N-SX
INDEX ON-OR.12	0348	30	32	64	0954	136E	20	26	54	2264	45	20	41	40 x 1,5 Sg N-SX
INDEX 18	1143	34	46	82	0713	148E	28	38	70	2256	68	29	31,5	58 x 2 Sg N-SX
INDEX C.19	1687	34	48	82	0713	148E	28	38	70	1695	73	29	34	63 x 2 Sg N-SX
INDEX 24	1177	42	58	92	0764	163E	35	48	80	1347	88	39	38,5	74 x 2 Sg N-SX
INDEX 25	1953	42	52	82	0615	162E	35	43	70	1659	72	35	31,5	63 x 2 Sg N-SX
INDEX 25 R	1954	42	52	82	0713	148E	28	38	70	2328	72	29	31,5	63 x 2 Sg N-SX
INDEX E.26 - ER.26	1177	42	58	92	0764	163E	35	48	80	1001	83	39	13	con FORI
INDEX C.29	1177	42	58	92	0764	163E	35	48	80	1306	84,5	39	35	74 x 2 Sg N-SX
INDEX B.30	1177	42	58	92	0764	163E	35	48	80	1479	88	39	38,5	74 x 2 Sg N-SX
INDEX 36 - B.42	1967	56	70	104	0709	173E	48	60	94	1239	97	51	38,5	85 x 2 Sg N-SX
INDEX 36 - B.42 R	1355	56	70	104	0764	163E	35	48	80	1356	97	39	38,5	85 x 2 Sg N-SX
INDEX E.42 - ER.42	1967	56	70	104	0709	173E	48	60	94	2597	102	51	30	85 x 2 Sg N-SX



BICCHIERE
COLLET SLEEVE



PINZA CONO SEMPLICE
SINGLE CONE COLLET

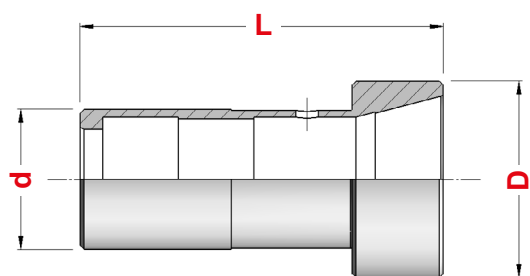


GHIERA
NOSE CAP

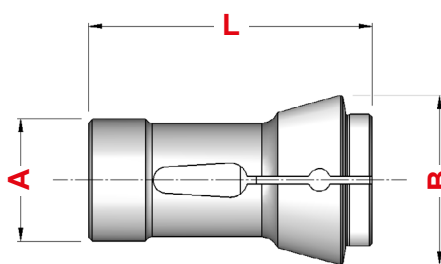
R = Riduzione per altro modello di pinza
Reduction for other kind of collet

MACCHINA	Art.	d	D	L	Art.	Einheits	A	B	L	Art.	D	d	H	f
INDEX E.42 - ER.42 R	1355	56	70	104	0764	163E	35	48	80	1930	102	39	30	85 x 2 Sg N-SX
INDEX 52	1267	74	94	108	0759	185E	66	84	110	1240	117	74,5	41,5	108 x 2 Sg N-SX
INDEX 52 R	1011	74	94	108	0709	173E	48	60	94	1021	117	51	41,5	108 x 2 Sg N-SX
INDEX B.60	1228	74	94	120	0759	185E	66	84	110	2682	122	74,5	34	108 x 2 Sg N-SX
INDEX B.60 R	2683	74	94	120	0709	173E	48	60	94	2684	122	51	34	108 x 2 Sg N-SX
INDEX E.60 - ER.60	1228	74	94	120	0759	185E	66	84	110	1185	136	74,5	16	con FORI
INDEX E.60 - ER.60 R	2683	74	94	120	0709	173E	48	60	94	1933	136	51	16	con FORI
ITS 26 - TCA.301	1745	37	50	92	0701	161E	32	45	75	1076	74	35	39	61 x 3
ITS TCA.42	1334	58,8	70	140	0709	173E	48	60	94	1337	108	52	34,5	92 x 2
ITS 60	1948	80	92	137	0759	185E	66	84	110	1915	124	74,5	38	110 x 2
ITS 60 R	2127	80	92	137	0709	173E	48	60	94	1494	124	51	38	110 x 2
LOGOS LE.42	2240	58	63	116,5	0709	173E	48	60	94	2126	92,5	51	22	75 x 2 Sg N-SX
LOGOS LE.52	1480	69	75	127	0859	—	60	72	102	—	—	—	—	—
MAS 40	1900	60	70	103	0666	—	52	63	92	—	—	—	—	—
PETERMAN P.7R	0590	21	25	55	5308	121E	15	22	47	—	—	—	—	—
PROTEO TL.32	1525	42	52	97	0837	—	38	50,3	86	1526	72	42	39	62 x 2,5
SAIC B.26	1745	37	50	92	0701	161E	32	45	75	2253	77	35	38	68 x 2
SAIC A.30 - B.30	2495	42	55	96	0764	163E	35	48	80	2392	79	39	39	66 x 3
SAIC A.30 - B.30 R	1361	42	55	96	0701	161E	32	45	75	1442	79	35	39	66 x 3
SAIC 32	1562	44	55	97	0837	—	38	50,3	86	1564	80	39	42	72 x 2
SAIC B.45	1343	58	70	130	0709	173E	48	60	94	1344	103	51	50	88 x 4
SKODA 40	1900	60	70	103	0666	—	52	63	92	—	—	—	—	—
STROHM M.45	0411	12	15	66	0721	101E	8	12	42	—	—	—	—	—
STROHM 105 - 125	1752	20	24	86	0722	120E	15	21	64	0398	34	16	20	30 x 1,5 Sg N-SX
STROHM 205	1780	35	40	100	0717	145E	25	35	77	1631	63	28	40	56 x 1,5 Sg N-SX
STROHM 255	1740	38	45	110	0727	157E	30	42	80	2250	63	35	40	56 x 1,5 Sg N-SX
TAREX TAR.52	1842	65	99	112	2424	177E	58	70	94	1850	129	62	47	114 x 2,5 Sg N-SX
TAREX TAR.52	—	—	—	—	2424	177E	58	70	94	1677	115	62	42	99 x 2,5 Sg N-SX
TAREX L.52 R	1675	65	76	110	0709	173E	48	60	94	1678	115	51	42	99 x 2,5 Sg N-SX
TAREX TAR.64	1817	80	100	176	—	187E	72	90	142	2431	148	80	44	124 x 2,5 Sg N-SX
TORNOS M.4	0411	12	15	66	0721	101E	8	12	42	—	—	—	—	—
TORNOS M.7R - M.S7	0090	18	23	88	0940	116E	13	19	64	—	—	—	—	—

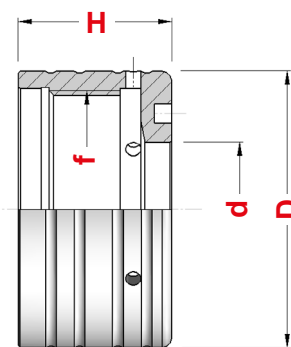
BICCHIERI E GHIERE PER PINZE CONO SEMPLICE
SLEEVES AND NUTS FOR SINGLE CONE COLLETS



BICCHIERE
COLLET SLEEVE



PINZA CONO SEMPLICE
SINGLE CONE COLLET



GHIERA
NOSE CAP

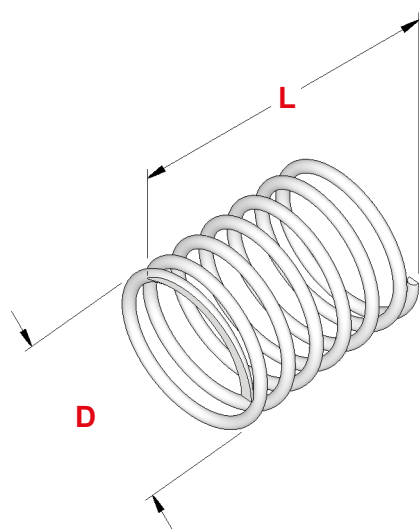
R = Riduzione per altro modello di pinza
Reduction for other kind of collet

MACCHINA	Art.	d	D	L	Art.	Einheits	A	B	L	Art.	D	d	H	f
TORNOS R.10	2700	22	26	90	0722	120E	15	21	64	0290	37	16,5	17	33 x 1,25 SX
TORNOS M.15 - R.16	2681	28	32	95	0937	138E	20	28	67	—	—	—	—	—
TORNOS ENC.164	1348	30	30	69	0954	136E	20	26	54	—	—	—	—	—
TORNOS M.25	1802	38	45	110	0727	157E	30	42	80	—	—	—	—	—
TORNOS M.25	2676	40	50	91	0727	157E	30	42	80	—	—	—	—	—
TRAUB A.15	1750	33	33	52	0705	140E	22	30	55	2244	53	22	45	44 x 2
TRAUB TC.15	1748	28	38	70	0705	140E	22	30	55	1688	63	22	37	52 x 3
TRAUB TD.16	1937	28	40	70	0705	140E	22	30	55	—	—	—	—	—
TRAUB A.20	1747	34	42	67	0713	148E	28	38	70	2245	63	29	39	52 x 3
TRAUB A.25	1755	37	52	96	0701	161E	32	45	75	1759	72	35	39	62 x 2,5
TRAUB A.25 R	1775	37	52	96	0705	140E	22	30	55	1776	72	22	39	62 x 2,5
TRAUB A.26	1742	40	52	96	0701	161E	32	45	75	1759	72	35	39	62 x 2,5
TRAUB TD.26	0775	40	54	95	0701	161E	32	45	75	2378	78	35	40	70 x 3
TRAUB TD.36	2099	50	68	115	0861	171E	42	55	94	2085	86	43,5	40	80 x 3
TRAUB A.42	1743	54	68/75	114	0709	173E	48	60	94	1763	91	51	46	80 x 3
TRAUB A.42 R	1820	54	68/75	114	0701	161E	32	45	75	1821	91	35	46	80 x 3
TRAUB TB.42	1743	54	68/75	114	0709	173E	48	60	94	1763	91	51	46	80 x 3
TRAUB TB.42 R	1820	54	68/75	114	0701	161E	32	45	75	1821	91	35	46	80 x 3
TRAUB TB.42 L=140	1238	54	68/75	140	0709	173E	48	60	94	—	—	—	—	—
TRAUB TG.42	1074	54	65/75	115	0709	173E	48	60	94	—	—	—	—	—
TRAUB TK.42	1743	54	68/75	114	0709	173E	48	60	94	1763	91	51	46	80 x 3
TRAUB TNS.42	1338	60	70	135	0709	173E	48	60	94	1339	130	51	23	con FORI
TRAUB A.60	1551	74	86/93	114	0759	185E	66	84	110	2248	105	74,5	44,5	98 x 3
TRAUB A.60 R	2246	74	86/93	114	0709	173E	48	60	94	2259	105	51	44,5	98 x 3
TRAUB TB.60	1196	74	86/93	138	0759	185E	66	84	110	2248	105	74,5	44,5	98 x 3
TRAUB TB.60 R	2258	74	86/93	138	0709	173E	48	60	94	2259	105	51	44,5	98 x 3
TRAUB TF.60	1881	82	95	138	0759	185E	66	84	110	1883	140	74,5	22	con FORI
TRAUB TNF.60	1884	75	95	138	0759	185E	66	84	110	1883	140	74,5	22	con FORI
TRAUB TNF.60 R	1487	75	95	138	0709	173E	48	60	94	1500	140	51	22	con FORI
UNAMUNO 15	1751	27	32/37	61	0705	140E	22	30	55	1195	46	22,5	26	40 x 1,5
UNAMUNO 25	1755	37	52	96	0701	161E	32	45	75	1759	72	35	39	62 x 2,5

MOLLE PER BICCHIERI PORTAPINZA

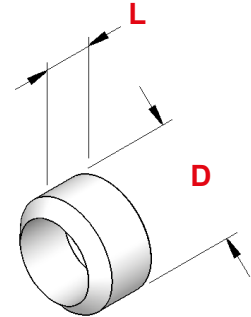
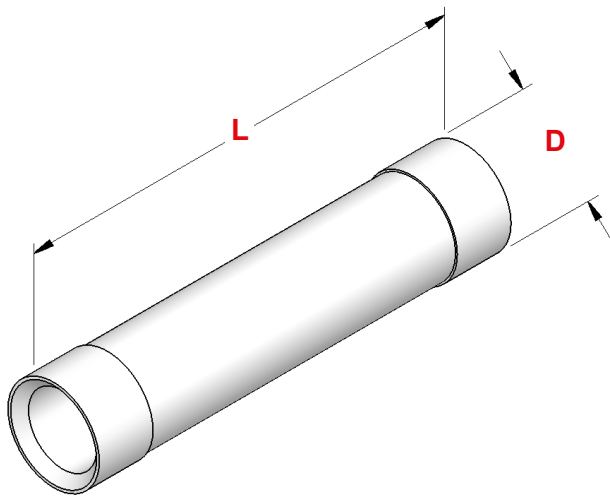
SPRINGS FOR COLLET SLEEVES

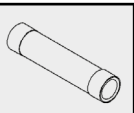

R = Riduzione per altro modello di pinza
Reduction for other kind of collet



MACCHINA	Art.	D	L	Art.	Art.	Einheits
CASER TA.26	1278	31,0	15	1952	0701	161E
FEINLER FA.10	1273	14,7	28	1752	0722	120E
FEINLER FA.15	5708	21,5	22	1751	0705	140E
GIORGI GM.25	1154	31,0	32	1745	0701	161E
GIORGI GM.30	1905	34,5	30	2241	0764	163E
GIORGI GM.32	2513	37,5	30	1493	0837	—
GIORGI GM.32 R	1154	31,0	32	2616	0701	161E
INDEX 12	1359	21,5	31	1133	0705	140E
INDEX DG.12 R	5708	21,5	22	1272	0705	140E
INDEX ON-OR.12	2326	19,5	15	0348	0954	136E
INDEX 18	2507	27,5	22	1143	0713	148E
INDEX C.19	2507	27,5	22	1687	0713	148E
INDEX 24	1905	34,5	30	1177	0764	163E
INDEX 25	1905	34,5	30	1953	0615	162E
INDEX 25 R	2507	27,5	22	1954	0713	148E
INDEX E.26 - ER.26	1905	34,5	30	1177	0764	163E
INDEX C.29 - B.30	1905	34,5	30	1177	0764	163E
INDEX 36 - B.42	0498	47,0	30	1967	0709	173E
INDEX 36 - B.42 R	1905	34,5	30	1355	0764	163E
INDEX E.42 - ER.42	0498	47,0	30	1967	0709	173E
INDEX E.42 - ER.42 R	1905	34,5	30	1355	0764	163E
INDEX 52 R	2514	47,0	40	1011	0709	173E
INDEX B.60 - ER.60 R	2514	47,0	40	2683	0709	173E
ITS 26	1154	31,0	32	1745	0701	161E
ITS TCA.42	2514	47,0	40	1334	0709	173E
ITS 60	2515	65,5	60	1948	0759	185E
ITS 60 R	2514	47,0	40	2127	0709	173E
SAIC B.26	1154	31,0	32	1745	0701	161E
SAIC A.30 - B.30	2511	34,5	27	2495	0764	163E
SAIC B.30 R	1154	31,0	32	1361	0701	161E
SAIC B.45	2514	47,0	40	1343	0709	173E
STROHM 105 - 125	1273	14,7	28	1752	0722	120E
TAREX L.52 R	2514	47,0	40	1675	0709	173E
TORNOS R.10	1273	14,7	28	2700	0722	120E
TRAUB A.15	2506	21,5	17	1750	0705	140E
TRAUB TC.15	1359	21,5	31	1748	0705	140E
TRAUB A.20	1135	27,5	8	1747	0713	148E
TRAUB A.25	2543	31,0	27	—	0701	161E
TRAUB A.25	2510	31,0	37	1755	0701	161E
TRAUB A.25 R	5708	21,5	22	1775	0705	140E
TRAUB A.26	2510	31,0	37	1742	0701	161E
TRAUB TD.26	2510	31,0	37	0775	0701	161E
TRAUB TD.36	2347	41,5	44	2099	0861	171E
TRAUB A.42	2514	47,0	40	1743	0709	173E
TRAUB A.42 R	2510	31,0	37	1820	0701	161E
TRAUB TB.42	2514	47,0	40	1743	0709	173E
TRAUB TB.42 R	2510	31,0	37	1820	0701	161E
TRAUB TK.42	2514	47,0	40	1743	0709	173E
TRAUB A.60 R	2514	47,0	40	2246	0709	173E
TRAUB TB.60	2515	65,5	60	1196	0759	185E
TRAUB TB.60 R	2514	47,0	40	2258	0709	173E
UNAMUNO 15	5708	21,5	22	1751	0705	140E
UNAMUNO 25	2510	31,0	37	1755	0701	161E

TUBI E DISTANZIALI DI CHIUSURA PINZA
TUBES AND SPACERS FOR COLLET CLOSING

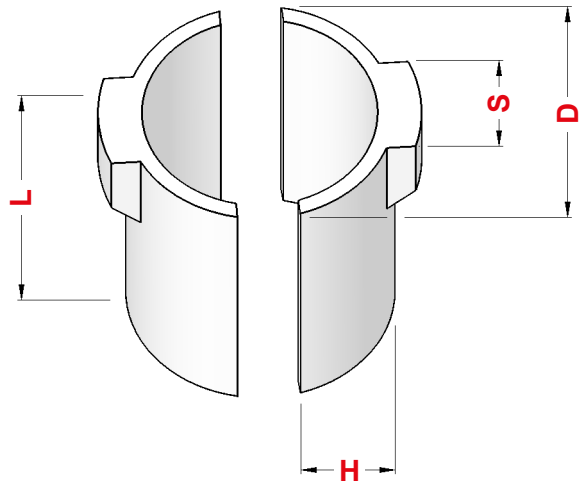


MACCHINA						
	Art.	D	L	Art.	D	L
FEINLER FA.10	2197	16,8	165	0209	16,8	12
FEINLER FA.15	2025	23	190	0145	23	10,5
FEINLER FA.15	2025	23	190	1318	23	12
GIORGI GM.20	2282	26,5	208	2301	26,5	29,5
GIORGI GM.32	1327	38,5	203	1506	38,5	26,5
ITS 26	1483	32	132	0232	32,8	26
SAIC B.26	1483	32	132	2303	32,8	24
SAIC B.26	1483	32	132	0232	32,8	26
SAIC A.30	1274	36,8	205	1275	36,8	27
SAIC B.30	2294	36,8	128	1275	36,8	27
SAIC B.45	2295	56	226	2310	55,8	21
STROHM 45	—	—	—	0167	11	7
STROHM 105	1636	16,8	73,5	1174	16,8	11
STROHM 125	2020	16,8	78	1175	16,8	10
STROHM 205	—	—	—	2305	32	26
STROHM 255	2650	36,8	71	2306	37	27
TRAUB A.15 - TC.15	1353	21	156	1350	21	21
TRAUB A.15 - TC.15	1351	21	176	1350	21	21
TRAUB A.20	2037	28	158	0353	28	24
TRAUB A.25	1483	32	132	1365	32	24
TRAUB A.25	1483	32	132	2314	32	26
TRAUB TD.26	2292	34	203	2315	34	15
TRAUB A.42	1882	51	230	2530	51	29
TRAUB TB.42	—	—	—	2531	51,8	25
TRAUB A.60	1534	70	234	2063	70	30
TRAUB TB.60	—	—	—	2063	70	30
UNAMUNO 15	0608	22	190	0083	22	19
UNAMUNO 15	0609	22	210	0083	22	19

SETTORI IN ACCIAIO DI CHIUSURA PINZA

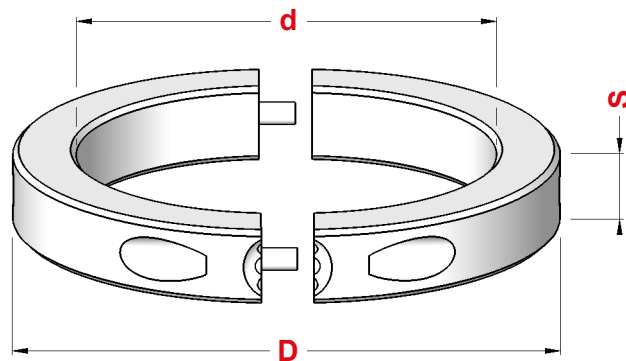
STEEL TWIN SECTORS FOR COLLET CLOSING

MACCHINA	Art.	D	L	S	H
ATA 25	2009	38	50	15,5	14,0
ATA 40	2010	53	50	19,5	20,0
INDEX DG.12	0303	24	36	11,6	8,0
INDEX 12 - ON.12 - OR.12	2866	30	34	11,5	10,1
INDEX 18 - C.19	2307	30	40	14,0	10,5
INDEX 25	1138	36	40	14,0	13,0
INDEX 24 - C.29 - B.30	1960	37	42	15,8	13,0
INDEX 36 - 42 - B.42	1108	48	52	19,5	18,4
INDEX 52 - 60 - B.60	2297	67	52	19,5	27,3
LOGOS L.24	0156	36	30	11,5	12,0
LOGOS L.42	1127	52	50	18,0	19,5
LOGOS L.52	2034	62	40	18,0	21,0
LOGOS L.64 - L.68	1771	72	50	21,0	25,0
SKODA 40 - MAS 40	2010	53	50	19,5	20,0
TAREX L.32	2377	38	50	14,5	11,5
TAREX L.42	1128	47	50	15,5	16,0
TAREX L.52	1129	57	50	15,5	21,0
TAREX L.52	1471	57	50	21,5	21,0
TAREX L.64	1139	70	50	24,5	22,3



SETTORI IN BRONZO DI CHIUSURA PINZA

BRONZE TWIN SECTORS FOR COLLET CLOSING



SETTORI PER CHIUSURA PINZA

BRONZE TWIN SECTORS FOR COLLET CLOSING

MACCHINA	Art.	D	d	S
INDEX 12 - 18 - C.19	2617	83	62,0	14
INDEX 25	2795	90	68,5	14
INDEX C.29	2675	93	72,0	14
INDEX 24 - 36 - 42	2643	118	92,0	18
INDEX B.30 - B.42	2643	118	92,0	18
INDEX 52 - 60 - B.60	0818	133	110,0	18

SETTORI PER FRIZIONE CAMBIO VELOCITA'

BRONZE TWIN SECTORS FOR SPEED CHANGE CLUTCH

MACCHINA	Art.	D	d	S
INDEX 12	2849	100	76,0	14
INDEX 18 - C.19	2015	101	82,0	14
INDEX 25	3199	106	88,0	14
INDEX C.29	2565	113	95,0	14
INDEX B.30	2566	136	105,0	18
INDEX 36 - 42 - B.42	2573	136	116,0	18
INDEX 52 - 60 - B.60	2596	152	133,0	18

MANICOTTI SCORREVOLI
CHUCK LEVER SLEEVES AND OUTSIDE RINGS

MACCHINA	MANICOTTI CHUCK LEVER SLEEVES					ANELLI ESTERNI OUTSIDE RINGS					MARTELLETTI CHUCK LEVERS			
	Art.	D	d	L	Fig.	Art.	D	L	S	Fig.	Art.	S	L	H
CASER TA.26	0991BI	50	42	75	1	2011	80	42	30,5	5	0796	9,5	70	18
CASER TA.30	1037BI	55,5	47	75	1	1037AE	85	41	30,5	5	0796	9,5	70	18
FEINLER FA.10	1724	30	—	43	2	—	—	—	—	—	0850	7	50	19
FEINLER FA.15	1441	35	—	46	2	1406	59	45	—	6	0850	7	50	19
GILDEMEISTER AS.32	5608	106	48	44	4	—	—	—	—	—	—	—	—	—
GIORGI GM. 20	1726	47	35	85	1	2036	76	43	30	5	0817	10	74	22
GIORGI GM. 32	1727	56	46	85	1	2038	91	43	30	5	0817	10	74	22
INDEX 12	2031BI	44	34	72	1	2031AE	80	54	14	7	0778	11,8	74	20
INDEX 18 - C.19	1733BI	50	39	72	1	1733AE	80	54	14	7	0781	13,5	74	20
INDEX 24 - 29 - B.30	2518BI	68	48	94	1	2518AE	115	76	18	7	0811	15,5	100	24,2
INDEX 25	2529BI	56	44	72	1	2529AE	86	54	14	7	0781	13,5	74	20
INDEX ER.25	1028BI	58	48	85	1	—	—	—	—	—	0781	13,5	74	20
INDEX C.29	5706BI	60	48	72	1	5706AE	90	54	14	7	0782	15,5	74	20
INDEX 36 - 42	2474BI	80	59	94	1	2474AE	115	76	18	7	0780	19,8	100	24,2
INDEX B.42	2474BI	80	59	94	1	2474AE	115	76	18	7	0780	19,8	100	24,2
INDEX 52 - 60	0900BI	98	76	94	1	0900AE	128	55,5	18	7	0780	19,8	100	24,2
INDEX B.60	0900BI	98	76	94	1	0900AE	128	55,5	18	7	0780	19,8	100	24,2
ITS 26	0991BI	50	42	75	1	0991AE	78	46	30,5	5	0798	10	71	18
ITS 26	1012BI	55	42	80	1	1012AE	84	42,5	30,5	5	0784	10	73	19,5
SAIC B.26	0991BI	50	42	75	1	0991AE	78	46	30,5	5	0798	10	71	18
SAIC A.30	1486BI	55	47	86	1	1012AE	84	42,5	30,5	5	0797	14,5	73	24,5
SAIC B.30	0651BI	55	47	74	1	0651AE	81,5	44,3	30,5	5	0815	12	71	18
SAIC B.45	1757BI	84	67	81	1	1757AE	115	47	32,5	5	0801	14,5	82	23,5
STROHM 45	1924	25	—	32	2	—	—	—	—	—	0192	6	44	16
STROHM 105 - 125	1440	30	—	44	2	2049	54	35	—	6	0791	7	50	21
STROHM 205	1926	55	—	77	3	—	—	—	—	—	0196	12	90,5	31
STROHM 255	1927	60	—	77	3	—	—	—	—	—	0197	13,8	92	26
TRAUB A.15	1257BI	37	30	65,3	1	1257AE	57	40	22,5	5	0795	9	62	17
TRAUB A.15	1321BI	42	30	72	1	1321AE	70	46	30,5	5	0793	10	70	18
TRAUB A.15	0990BI	42	30	72	1	1321AE	70	46	30,5	5	0776	12	70	18
TRAUB TC.15	0990BI	42	30	72	1	0990AE	50	43,5	—	8	0776	12	70	18
TRAUB TD.16	1017BI	42	32	78	1	1017AE	50	45	—	8	0974	12	74	18,3
TRAUB A.20	0989BI	45	38	74	1	0989AE	72	46	30,5	5	0793	10	70	18
TRAUB A.25	0991BI	50	42	75	1	0991AE	78	46	30,5	5	0793	10	70	18
TRAUB A.25	1382BI	50	42	75	1	0991AE	78	46	30,5	5	0776	12	70	18
TRAUB TB.25	1382BI	50	42	75	1	0991AE	78	46	30,5	5	0776	12	70	18
TRAUB TC.25	1382BI	50	42	75	1	0991AE	78	46	30,5	5	0776	12	70	18
TRAUB TD.26	5606BI	52	40	78	1	5606AE	60	45	—	8	0974	12	74	18,3
TRAUB TB.30	2490BI	65	52	90	1	2490AE	110	47	32,5	5	0792	18	84	22
TRAUB A.42	1019BI	79	60	76	1	1019AE	112	45	32,5	5	0794	14	70	20,7
TRAUB TB.42	1741BI	80	65	90	1	1741AE	118	45	32,5	5	0792	18	84	22
TRAUB TK.42	1741BI	80	65	90	1	1741AE	118	45	32,5	5	0792	18	84	22
TRAUB A.60	1825BI	96	80	76	1	1301AE	128	45	32,5	5	0794	14	70	20,7
TRAUB TB.60	1301BI	96	82	90	1	1301AE	128	45	32,5	5	0792	18	84	22
UNAMUNO 15	1441	35	—	46	2	—	—	—	—	—	0850	7	50	19
UNAMUNO 25	1091BI	55	47	78	1	1091AE	65	34	—	8	0782	15,5	74	20

MANICOTTI
CHUCK LEVER SLEEVES

Fig. 1

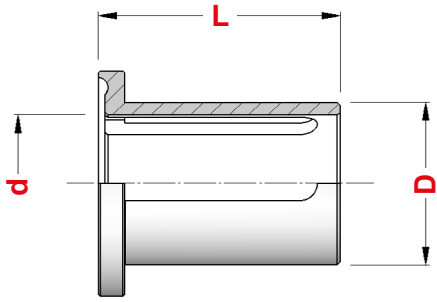


Fig. 3

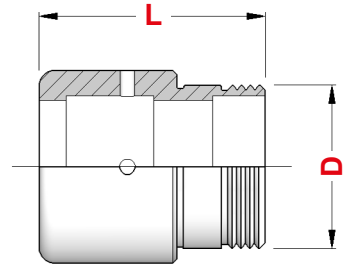


Fig. 2

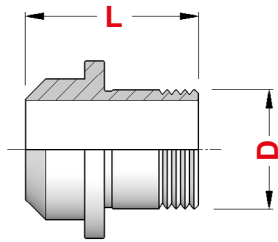
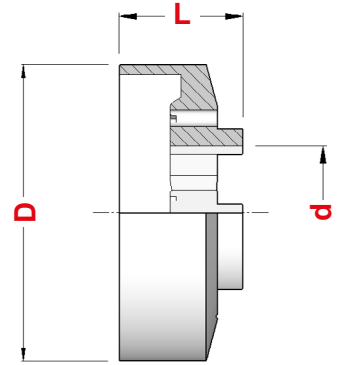


Fig. 4



ANELLI ESTERNI
OUTSIDE RINGS

Fig. 5

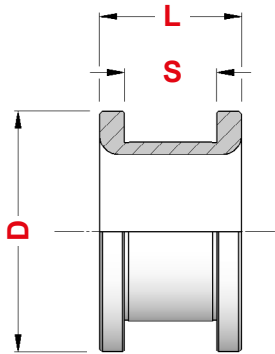


Fig. 7

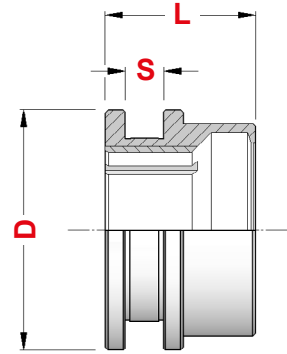


Fig. 6

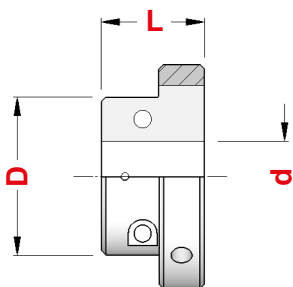
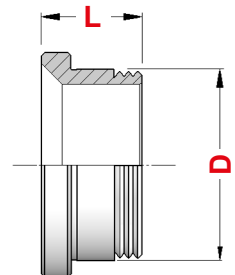
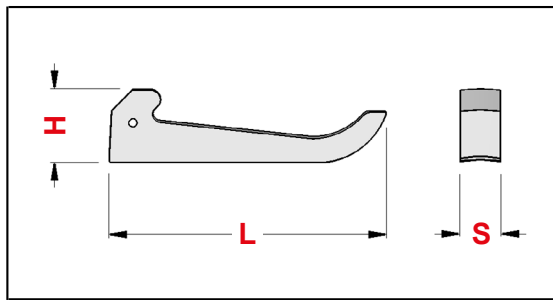


Fig. 8





LEVETTE DI CHIUSURA PINZA LEVERS FOR COLLET CLOSING

MACCHINA	Art.	S	L	H	Foro	Figura
AKEBONO MINC 26	2087	15	84	30	—	1
ATA 25	1465	15,5	103,5	26,7	—	2
ATA 40	1464	19,5	103,5	26,7	2,5	2
BECHET RM.7/10/12	0312	8	67,5	23	5	3
BECHLER A.7 - BR.10	0315	6	54,5	16	4	3
BECHLER BR.16 - 20	0314	12	76,2	28,6	6	4
BODEM P.26 - 32	0790	14,5	55	24	8	5
BODEM P.46B - P.52B	0794	14	70	20,7	2	1
BROWN & SHARPE 00	2296	12,5	61	15,5	—	2
BROWN & SHARPE 38	2039	22	103	23	—	2
B S A 25	0781	13,5	74	20	—	2
CAMPORESI T.25	0793	10	70	18	2	1
CAMPORESI T.42/60	2819	19,8	75	20	3	1
CASER TA.26/30	0796	9,5	70	18	2	1
CASER TA.45/50	0814	14	92	27	—	6
CERIOTTI RV.32	1153	8	60	24	7	7
CERIOTTI RVS.36	0817	10	74	22	6	8
CITIZEN G.16	2125	6	52	17,5	4	9
EMIMEC 26	0801	14,5	82	23,5	2,5	1
FEINLER FA.10/15	0850	7	50	19	6	9
GAUTIER GM.12	0311	6	57	15,5	4	3
GILDEMEISTER AS.16/20	2343	9	67,5	18,5	2,5	10
GILDEMEISTER AS.25	2339	20	65	21,8	—	11
GILDEMEISTER AS.28	2345	13	34	15,4	—	12
GILDEMEISTER AS.32	2382	24	73	24	—	13
GILDEMEISTER AS.32	2826	24	66	25	—	11
GILDEMEISTER AS.48	1249	30	74	25,7	—	11
GILDEMEISTER AS.48	2384	30	80	25,7	—	13
GIORGI GM.25/30/32	0817	10	74	22	6	8
HANWHA 26	2055	12	85	22	—	2
IMAMI IC.16 - R.28	0819	12	75	25	—	1
INDEX 12	0778	11,8	74	20	—	2
INDEX ON - OR - DG.12	0185	11,8	66	17,2	—	2
INDEX 18 - C.19 - 25 - ER.25	0781	13,5	74	20	—	2
INDEX 24 - C.29	0782	15,5	74	20	—	2
INDEX 24 - C.29 - B.30	0811	15,5	100	24,2	—	2
INDEX E.25 IDRAULICA	2178	13,8	66	17,2	—	2
INDEX KS.32 - 42 - 50	2179	20	88	23	—	14
INDEX 36/52/60 - B.42/60	0780	19,8	100	24,2	—	2
ITS 26	0798	10	71	18	2	1
ITS 26	0784	10	73	19,5	6	15
ITS 36 - 42 - 60	0975	17,5	88	28	8	16
IRALAG 25 - 35 - 45	2821	16	70	40	12	17
LOGOS L.18 - L.25	0781	13,5	74	17,2	—	2
LOGOS L.30	0811	15,5	100	24,2	—	2
LOGOS L.36 - 42 - 52	0806	18,4	100	23	—	2
LOGOS L.64	2004	21,3	100	24,2	—	2
MANURHIN PF - TR.22/25	0807	12	70,6	24	7	18
MANURHIN PF - TR.32/42	0808	15,5	91	32,5	10	18

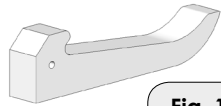


Fig. 1

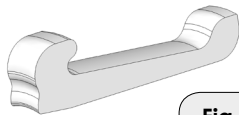


Fig. 2

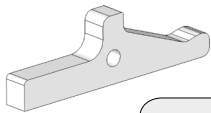


Fig. 3

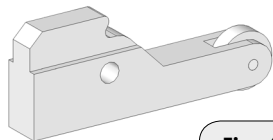


Fig. 4

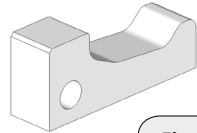


Fig. 5



Fig. 6



Fig. 7

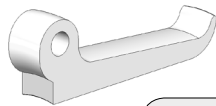


Fig. 8

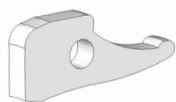


Fig. 9

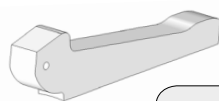


Fig. 10

segue →

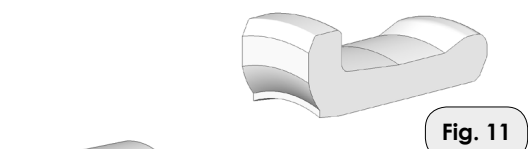


Fig. 11

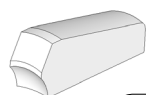


Fig. 12

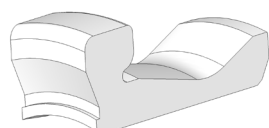


Fig. 13

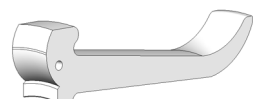


Fig. 14

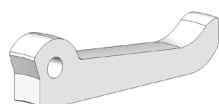


Fig. 15

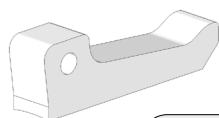


Fig. 16

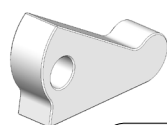


Fig. 17

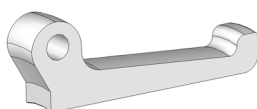


Fig. 18

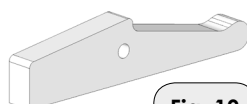


Fig. 19

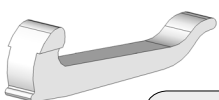


Fig. 20



Fig. 21

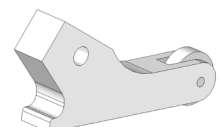


Fig. 22

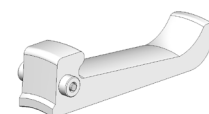


Fig. 23

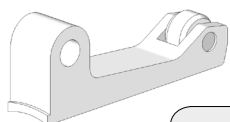


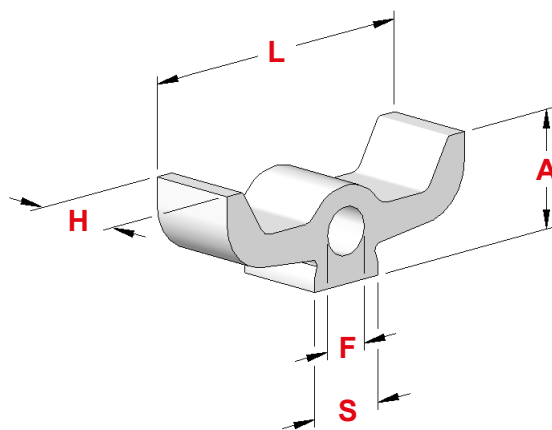
Fig. 24

MACCHINA	Art.	S	L	H	Foro	Figura
MUPEM TR.16/26	0974	12	74	18,3	2	14
MUPEM TR.32	2828	17	101	31	9	18
MUPEM TR.42	2708	20	112	34	10	18
PETERMANN P.7	0295	7	55	16,2	4	3
PETERMANN P.7R	0317	7	68	19	4	3
PETERMANN P.10 - 16 - 20	2759	10	99	22	5	19
RAVETTA 32	0786	12	81	21	2	1
RAVETTA 32	2052	20	81	21	—	1
SAIC DP.5/26	0785	10	53	28	8	7
SAIC B.26	0798	10	71	18	2	1
SAIC A.30/32	0797	14,5	73	24,5	6	18
SAIC B.30	0815	12	71	18	2	1
SAIC B.45	0801	14,5	82	23,5	2,5	1
SCHAUBLIN 102/120HP	2298	13,5/12	62,2	19	—	20
STAR NC.16	2183	10	73	27	6	3
STAR KNC.32B	2184	12	50	25,5	8	9
STEINHAUSER STF.16	1126	12	67,5	18,8	2,5	2
STEINHAUSER STF.25	2502	12	68	23	8	18
STEINHAUSER STF.36	2574	14	81	22,2	3	2
STROHM 45	0192	6	44	16	4,5	9
STROHM 75-105-125	0791	7	50	21	6	9
STROHM 75-105-125-NAR	1800	7	50	21	8	9
STROHM 205-255	0196	12	90,5	31	9	3
STROHM 205-255	0197	13,8	92	26	8	21
TAREX L.32 - 42 - 52	0811	15,5	100	24,2	—	2
TAREX L.42 - 52 - 64	2004	21,5	100	24,2	—	2
TAREX TH.64/90 C/RULLI	0110	25	76	37	10	22
TORNOS T.4	2706	6	43	16	4,5	3
TORNOS M.7	2311	6	45	22	4	9
TORNOS M.7	0182	7	58	18,3	5	3
TORNOS M.7	0194	7	58	18,3	6	3
TORNOS R.7 - R.10	0185	11,8	66	17,2	—	2
TORNOS NA.12	2390	9	55	21,3	6	3
TORNOS M.15	2697	9	71,3	24,3	7	3
TORNOS R.16	0781	13,5	74	20	—	2
TORNOS 20	2579	12	91	30	8	3
TORNOS RR.20	2582	13,5	82	21	2	1
TORNOS M.28/30/32	0669	14	108,5	28	9	3
TRAUB A.15	0795	9	62	17	—	1
TRAUB A.15/20/25	0793	10	70	18	2	1
TRAUB TC.15 - A.15/25	0776	12	70	18	2	1
TRAUB TD.16/26/36	0974	12	74	18,3	2	14
TRAUB A.26/36/42/45/60	0794	14	70	20,7	2	1
TRAUB TB.30/42/60 - TK.42	0792	18	84	22	—	23
TSUGAMI S.20/BS.20/NP.20	2053	12	57	17	—	2
TSUGAMI S.20/BS.20/BE	2054	8	56	13	—	2
TSUGAMI NP.20	2055	12	85	22	—	2
TSUGAMI BS 32	2055	12	85	22	—	2
UNAMUNO 15	0850	7	50	19	6	9
UNAMUNO 25	0782	15,5	74	20	—	2
WICKMAN 1"	2391	18,25	77	26,1	11,11	24
WICKMAN 1" 3/8	2478	22	101,5	37,5	11,11	24
WICKMAN 1" 3/8 - 1" 3/4	2479	27,8	100	35,7	14,28	24
WICKMAN 2" 1/4	0942	25	106	38	14,28	24
WICKMAN 2" 1/4	2400	25	122	37,5	14,28	18
WIRTH & GRUFFAT TCN.12	0492	7	67,8	16,5	4	3
YATOR 42	0650	15,5	98	30	3	2

LEVETTE PER FRIZIONE CLUTCH LEVERS

LEVETTE PER FRIZIONE CLUTCH LEVERS

MACCHINA	Art.	A	F	H	L	S
ATA 40	0268	21	8	20,0	50,0	14
INDEX 12-18-25-C19	0291	17	7	13,8	45,0	12
INDEX 24-E26-ER26	2721	20	8	15,8	50,0	14
INDEX C 29	0563	17	7	15,8	45,0	12
INDEX B30	2724	18	8	15,8	50,0	14
INDEX 36-52	2744	20	8	19,8	50,0	14
INDEX B42-60	2746	22	8	19,8	46,0	14



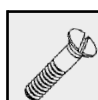
LEVETTE PER FRIZIONE CAMBIO VELOCITA' LEVERS FOR SPEED CHANGE CLUTCH

MACCHINA	Art.	A	F	H	L	S
CAMBIO INDEX B30	2746	22	8	19,8	46,0	14
CAMBIO INDEX B42-60	2744	20	8	19,8	50,0	14

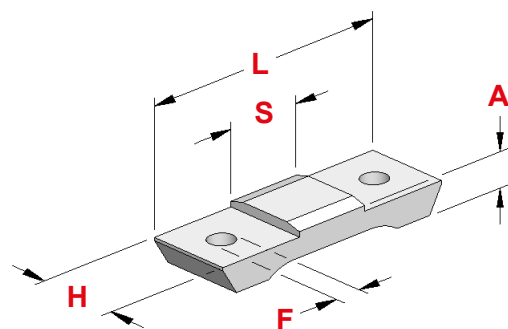
PIASTRINE PER FRIZIONE CLUTCH PADS

PIASTRINE PER FRIZIONE CLUTCH PADS

MACCHINA	Art.	A	F	H	L	S	Vite Art.
INDEX 12-18-25-C19	0269	6	5 x 0,5	14	40,0	12	2215
INDEX 24-E26-ER26	2705	8	5 x 0,5	16	45,5	16	2220
INDEX C 29	0564	6	5 x 0,5	16	39,5	12	2215
INDEX B30	2705	8	5 x 0,5	16	45,5	16	2220
INDEX 36-52	2745	8	5 x 0,5	20	45,5	16	2220
INDEX B42-60	2747	7	5 x 0,5	20	40,2	10	2281

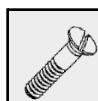


Vite
Art.



PIASTRINE PER FRIZIONE CAMBIO VELOCITA' PADS FOR SPEED CHANGE CLUTCH

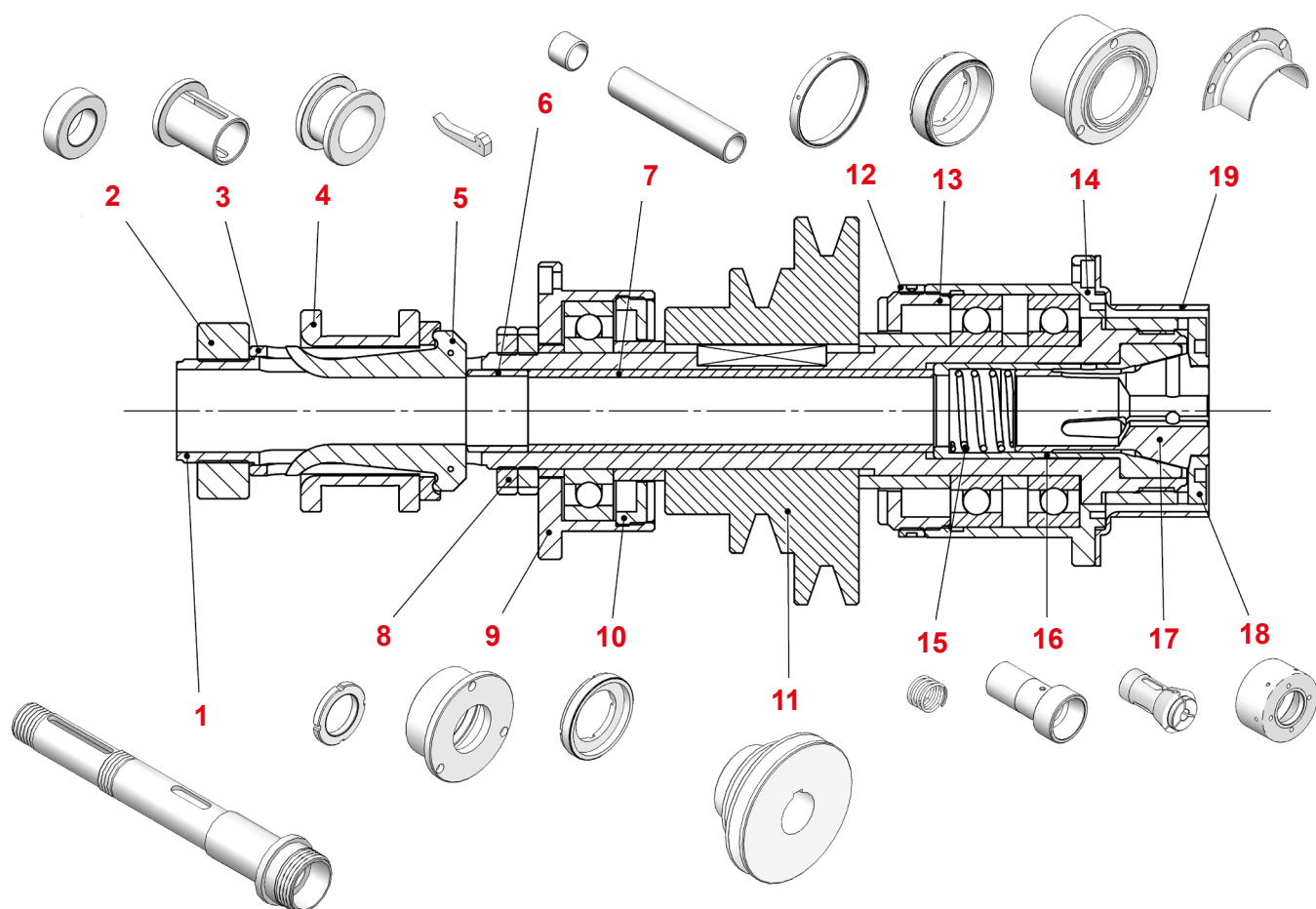
MACCHINA	Art.	A	F	H	L	S	Vite Art.
CAMBIO INDEX B30	2747	7	5 x 0,5	20	40,2	10	2281
CAMBIO INDEX B42-60	2745	8	5 x 0,5	20	45,5	16	2220



Vite
Art.

MANDRINI PRINCIPALI TRAUB

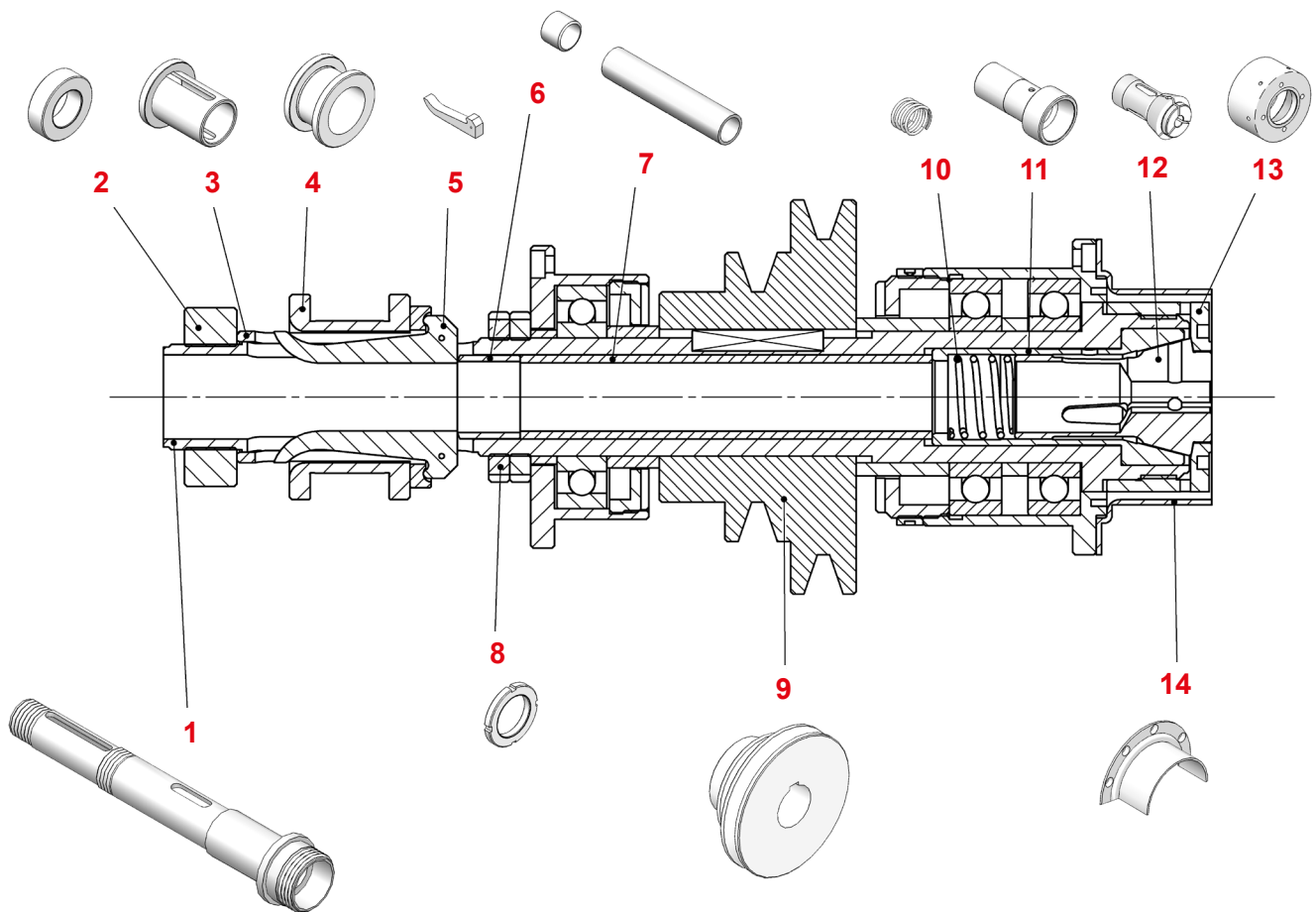
MAIN SPINDLES FOR TRAUB



Pos.	COMPONENTI	TRAUB A.15		TRAUB A.20	TRAUB A.25		TRAUB A.42	TRAUB A.60
		Art.	Art.	Art.	Art.	Art.	Art.	Art.
1	Mandrino Principale	1311	1332	1002	2158	2180	2159	2302
2	Ghiera Registro Manicotto	0857	0857	1997	1998	1998	1999	1996
3	Manicotto Porta Leve	1257 BI	1321 BI	0989 BI	0991 BI	1382 BI	1019 BI	1825 BI
4	Anello Scorrevole	1257 AE	1321 AE	0989 AE	0991 AE	0991 AE	1019 AE	1301 AE
5	Levette di chiusura	0795	0793	0793	0793	0776	0794	0794
6	Distanziale Compensatore	1350	1350	0353	1365	1365	2530	2063
7	Tubo Spingi Pinza	1351	1351	2037	1483	1483	1882	1534
8	Ghiera Registro Mandrino	1983	1983	1989	1990	1990	1992	1994
9	Alloggiamento Cuscinetti Posteriore	—	—	—	2155	2155	—	—
10	Ghiera Bloccaggio Cuscinetti - Post.	—	—	—	2266	2266	—	—
11	Puleggia Velocità x Cinghia Sez. 13	1749	1749	1567	1305	1305	2163	2316
12	Controghiera Allogg. Cuscinetti Ant.	1164	1164	—	1349	1349	—	—
13	Ghiera Bloccaggio Cuscinetti - Ant.	—	—	—	2275	2275	—	—
14	Alloggiamento Cuscinetti Anteriore	2156	2156	—	2154	2154	—	—
15	Molla per Bicchiere	2506	2506	1135	2510	2510	2514	2515
16	Bicchiere Porta Pinza	1750	1750	1747	1755	1755	1743	1551
17	Pinza di Serraggio	0705	0705	0713	0701	0701	0709	0759
18	Ghiera di Serraggio Pinza	2244	2244	2245	1759	1759	1763	2248
19	Paraspruzzi	—	—	—	2233	2233	—	—

MANDRINI PRINCIPALI FEINLER - ITS E SAIC

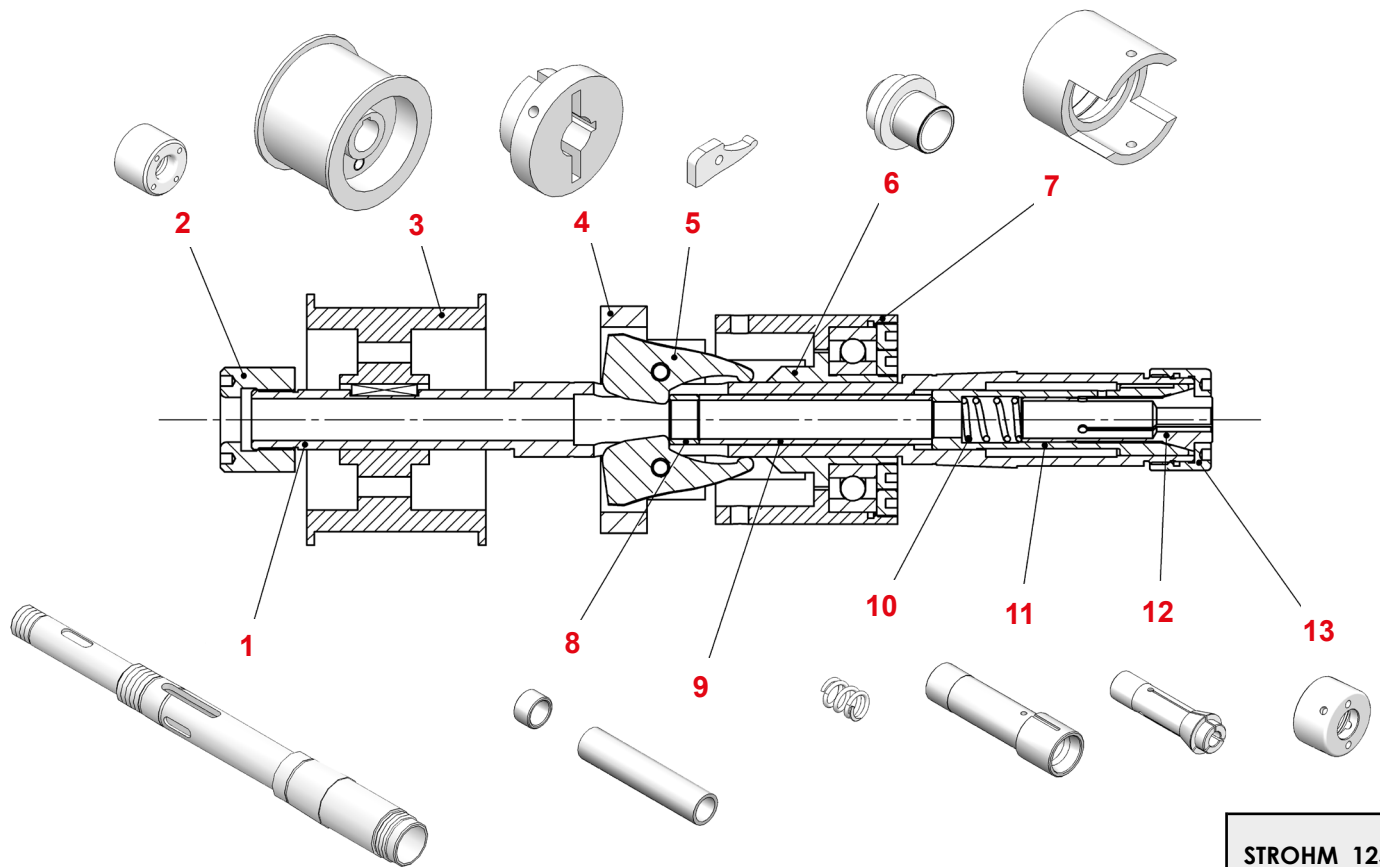
MAIN SPINDLES FOR FEINLER - ITS AND SAIC



Pos.	COMPONENTI	FEINLER FA.15	ITS 26	SAIC B.26		SAIC B.30
		Art.	Art.	Art.	Art.	Art.
1	Mandrino Principale	1849	1697	2230	1697	2517
2	Ghiera Registro Manicotto	1634	2319	2319	2319	2758
3	Manicotto Porta Leve	1406	1012 BI	0991 BI	0991 BI	0651 BI
4	Anello Scorrevole	1441	1012 AE	0991 AE	0991 AE	0651 AE
5	Levette di chiusura	0850	0784	0798	0798	0815
6	Distanziale Compensatore	1318	0232	0232	0232	1275
7	Tubo Spingi Pinza	2025	1483	1483	1483	1274
8	Ghiera Registro Mandrino	—	1990	1990	1990	—
9	Puleggia Velocità	1639	1711	1711	1711	2100
10	Molla per Bicchiere	5708	1154	1154	1154	2511
11	Bicchiere Porta Pinza	1751	1745	1745	1745	2495
12	Pinza di Serraggio	0705	0701	0701	0701	0764
13	Ghiera di Serraggio Pinza	1195	2253	2253	1076	2392
14	Paraspruzzi	—	2233	2233	2233	—

MANDRINO PRINCIPALE STROHM 125

MAIN SPINDLE FOR STROHM 125



STROHM 125		
Pos.	COMPONENTI	Art.
1	Mandrino Principale	2134
2	Ghiera Registro Manicotto	2106
3	Puleggia Velocità	2021
4	Blocco Porta Leve	2049
5	Levette di chiusura	0791
6	Anello Scorrevole	1440
7	Corpo Esterno	1754
8	Distanziale Compensatore	1175
9	Tubo spingi Pinza	2020
10	Molla per Bicchiere	1273
11	Bicchiere Porta Pinza	1752
12	Pinza di Serraggio	0722
13	Ghiera di Serraggio Pinza	0398

ALTRI MANDRINI PRINCIPALI

OTHER MAIN SPINDLES

	BECHLER AS.20 - BR.20	INDEX 36 - 42	TORNOS 7	TRAUB A.26
COMPONENTE	Art.	Art.	Art.	Art.
Mandrino Principale	2208	3023	2366	1762

SUPPORTO E CARRELLI VERTICALI TRAUB E SAIC

MOUNTING AND VERTICAL SLIDES FOR TRAUB AND SAIC

COMPLETI COMPOUNDS C

2 C

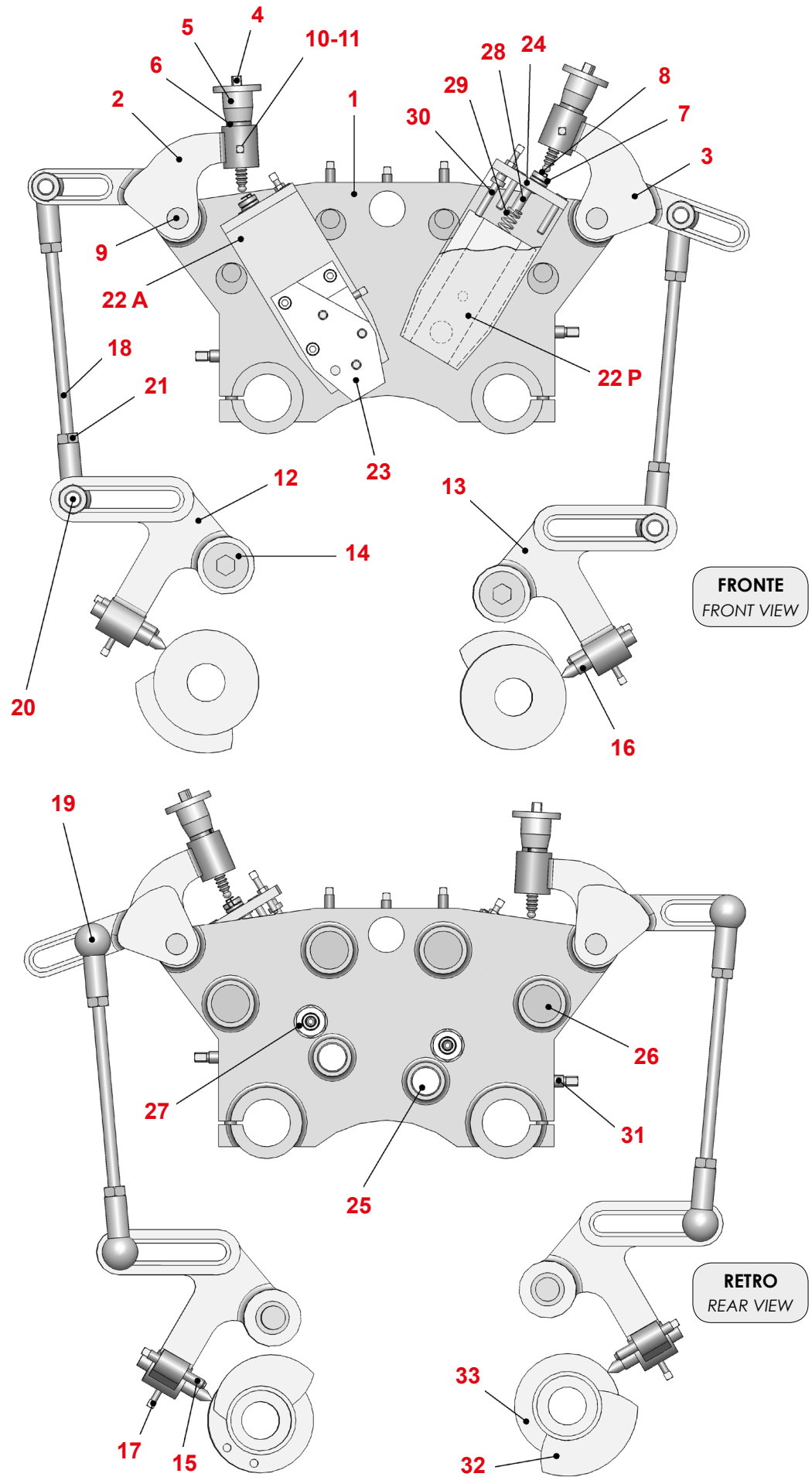
3 C

12 C

13 C

18 C

22 C



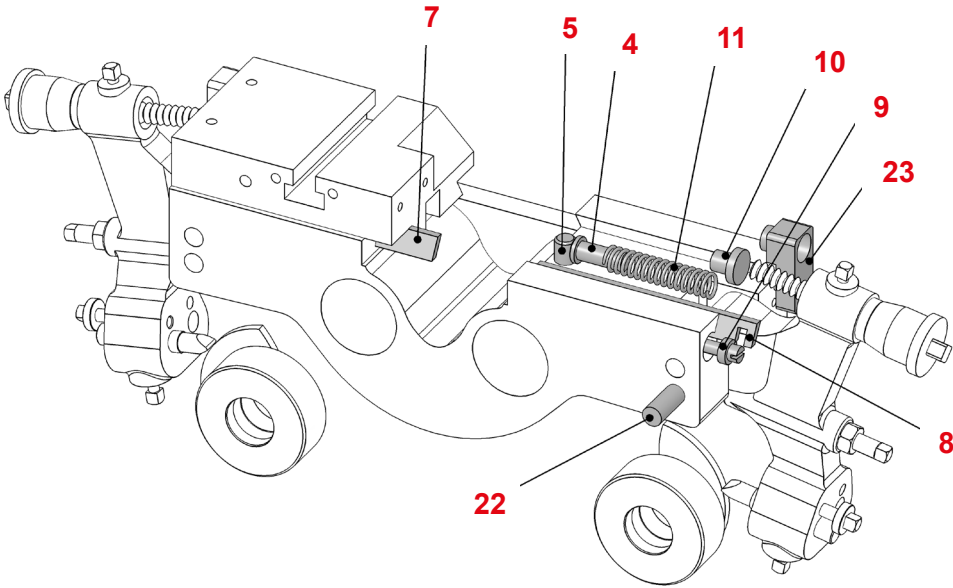
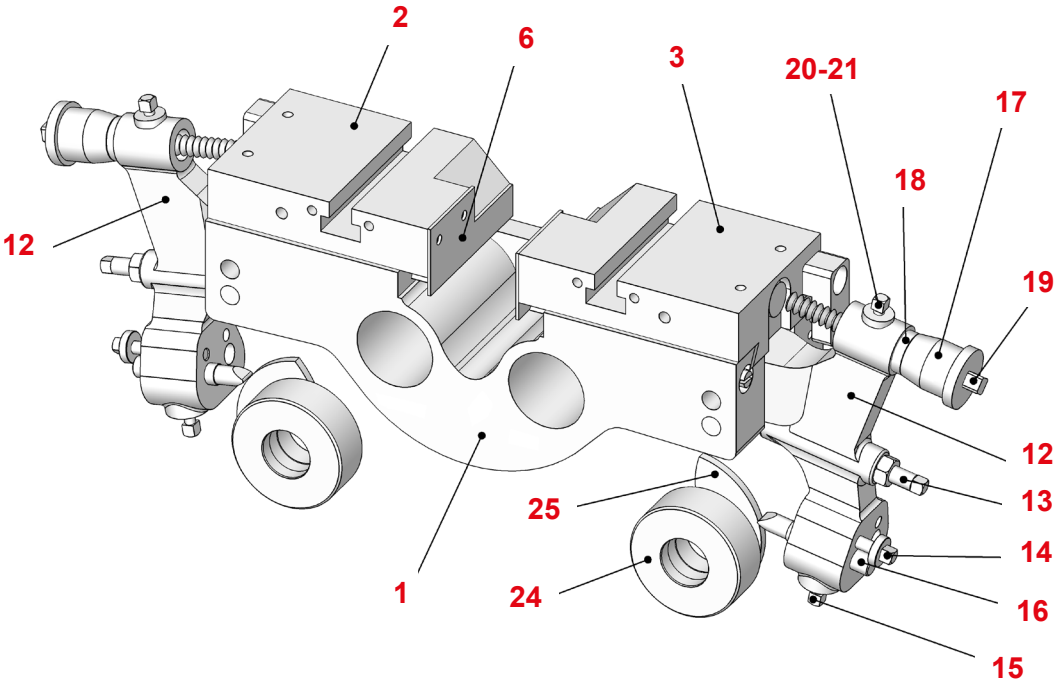
		TRAUB A.15 - 20 - 25	TRAUB A.36 - 42 - 60	TRAUB TB.30 - 42 - 60	SAIC B.26 - 30 Versione Originale	SAIC B.26 - 30 Adattato TRAUB A.25	SAIC B.45
Pos.	COMPONENTI	Art.	Art.	Art.	Art.	Art.	Art.
1	Supporto Carrelli	2166	1312	—	2210	1383	—
2	Leva Superiore Anteriore	1325	2171	—	2211	1325	2432
3	Leva Superiore Posteriore	1335	2172	—	—	1335	2430
4	Vite per Nonio	1973	1973	—	2048	1973	2642
5	Nonio Graduato	1578	1578	1578	2041	1578	2640
6	Tamburo Graduato	1718	1718	—	2040	1718	2641
7	Pastiglia Spintore	1163	1163	—	—	1163	—
8	Molla per Pastiglia	0014	0014	—	—	0014	—
9	Spina Fulcro	0589	0239	—	0589	0589	—
10	Vite Bloccaggio Nonio	2148 6x20	2148 6x30	—	2148 6x20	2148 6x20	2148 7x20
11	Pastiglia in Ottone per Vite	0123	0123	—	0123	0123	1980
12	Leva Inferiore Anteriore	2160	2169	—	2213	2213	2438
13	Leva Inferiore Posteriore	2161	2170	—	2214	2214	2436
14	Perno Fulcro	1423	2122	—	1384	1384	—
15	Vite Registro Ritorno Leva	2148 7x60	2148 8x60	—	2148 7x60	2148 7x60	2148 8x60
16	Becco Camme	1244	1209	1209	1244	1244	1209
17	Vite Bloccaggio Becchi	2148 6x20	2148 8x30	—	2148 6x20	2148 6x20	2148 7x20
18	Asta di Collegamento	2030	2107	—	1261	1261	—
19	Sede Sferica	1624	1421	—	1262	1262	—
20	Perno Sferico	1134	1121	—	1265	1265	—
21	Dado di Registro	0105	0106	—	0105	0105	—
22 A	Carrello Verticale Anteriore	1475	1496	1324	1498	1498	—
22 P	Carrello Verticale Posteriore	1475	1496	1324	1498	1498	—
23	Portautensile	1456	1458	1458	1594	1594	1372
24	Piastra di Pressione	1140	0469	2058	1266	1266	1289
25	Perno di Attacco	1660	2121	included in 1324	2045	2045	1632
26	Perno di Registro	1661	2124	2057	2047	2047	1633
27	Bussola di Registro Longitudinale	2028	2028	included in 1324	2046	2046	2288
28	Perno per Molla	1136	1136	included in 1324	1136	1136	—
29	Molla	0004	0002	0005	0004	0004	—
30	Vite Registro Lardone	1505	1505	1505	1505	1505	—
31	Vite di Bloccaggio Carrello	2076	0530	—	2076	2076	—
32	Camme	0659	0663	0657	0502	0502	—
33	Tamburo Porta Camme	1431	1346	2444	2632	2632	—

COMPLETI
COMPOUNDS **C**

		TRAUB A.15 - 20 - 25	TRAUB A.36 - 42 - 60	TRAUB TB.30 - 42 - 60	SAIC B.26 - 30 Versione Originale	SAIC B.26 - 30 Adattato TRAUB A.25
Pos.	COMPLETI	Art.	Art.	Art.	Art.	Art.
2 C	Completo Leva Sup. Anteriore Pos. 2 + Posizioni da 4 a 11	7300	7306	—	—	7300
3 C	Completo Leva Sup. Posteriore Pos. 3 + Posizioni da 4 a 11	7301	7307	—	—	7301
12 C	Completo Leva Inf. Anteriore Pos. 12 + Posizioni da 14 a 17	7302	7308	—	7313	7313
13 C	Completo Leva Inf. Posteriore Pos. 13 + Posizioni da 14 a 17	7303	7309	—	7314	7314
18 C	Completo Asta di Collegamento Pos. 18 + Posizioni da 19 a 21	7304	7310	—	7315	7315
22 C	Completo Carrello Verticale Pos. 22 + Posizioni da 23 a 30	7305	7311	7312	7316	7316

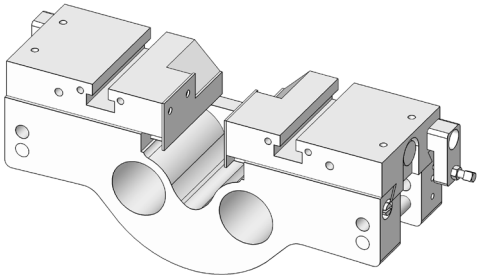
CARRELLI TRASVERSALI - ORIZZONTALI TRAUB

CROSSWISE SLIDES FOR TRAUB

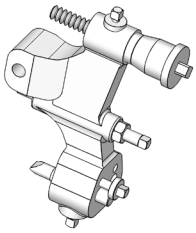


COMPLETI **C**
COMPOUNDS

1 C



12 C



CARRELLI TRASVERSALI - ORIZZONTALI TRAUB

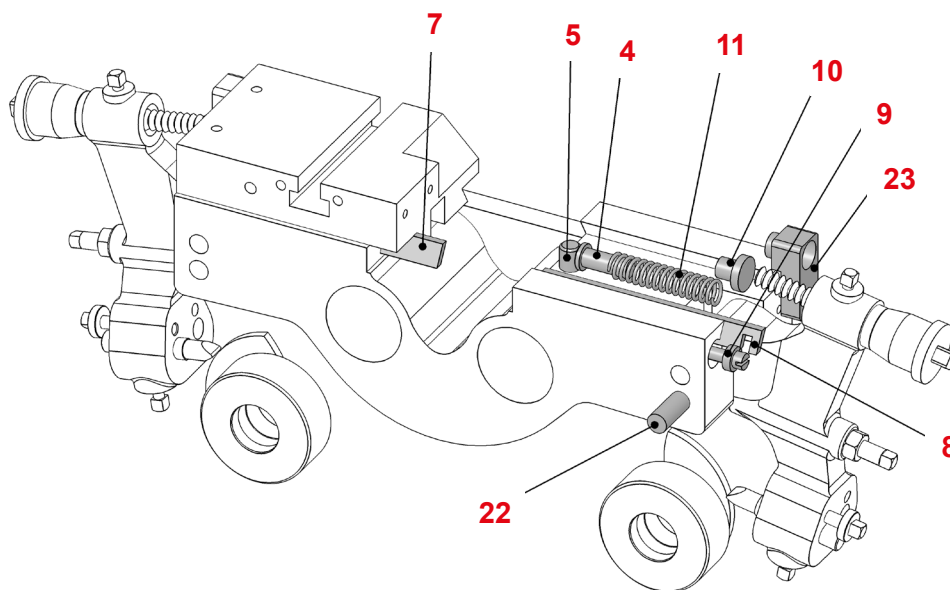
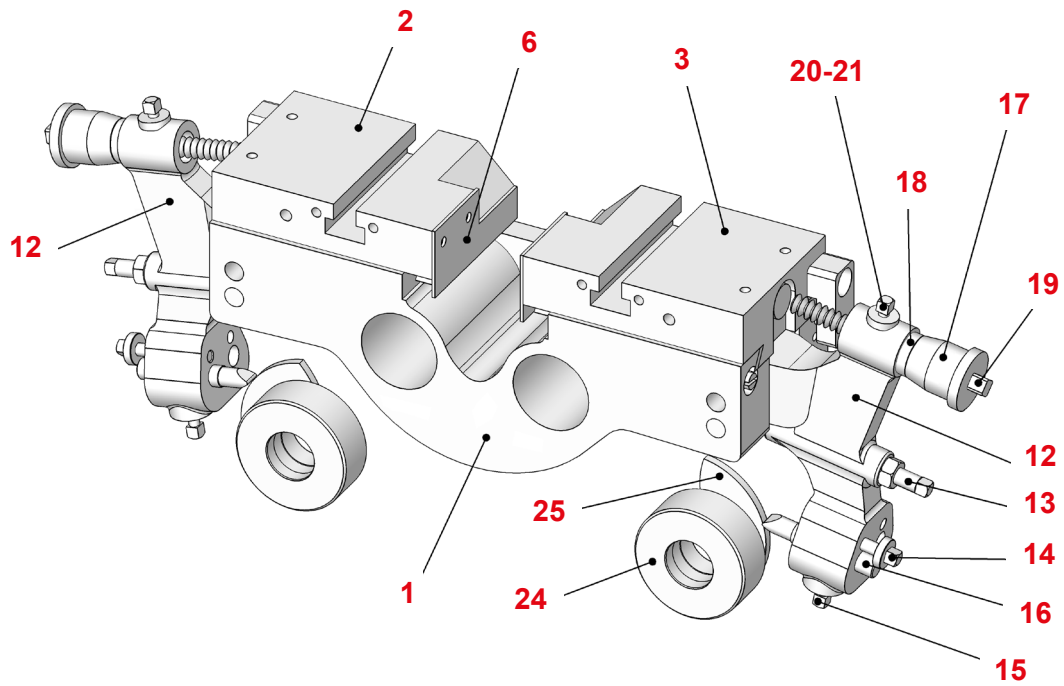
CROSSWISE SLIDES FOR TRAUB

		TRAUB A.15 - 20 - 25	TRAUB A.36 - 42	TRAUB A.60	TRAUB TB.42 - 60
Pos.	COMPONENTI	Art.	Art.	Art.	Art.
1	Supporto Slitte	—	—	—	—
2	Slitta Anteriore	—	—	—	—
3	Slitta Posteriore	—	—	—	—
4	Perno Guida Molla	0236	—	—	—
5	Perno Battuta Molla	1099	—	—	—
6	Lamierino di Protezione	1122	—	—	—
7	Lardone Anteriore	—	—	—	—
8	Lardone Posteriore	—	—	—	—
9	Vite Registro Lardone	1505	—	—	—
10	Perno di Arresto	1142	1142	1142	—
11	Molla	0004	0165	0165	—
12	Leva d.10 Carrello Trasversale Anteriore / Posteriore	1845	1829	2459	1316
13	Vite di Registro Leva	2148 7x70	0485	0523	—
14	Vite di Registro Tastatori	1255	1255	1255	—
15	Vite di Bloccaggio Tastatori	2148 7x30	2148 6x30	2148 7x30	—
16	Tastatore Camme	1244	1209	1209	—
17	Nonio Graduato Foro d. 7 / Hole d. 7	0475	—	—	—
	Nonio Graduato Foro d. 10 / Hole d. 10	1578	1578	1578	—
18	Indice Graduato Foro d. 7 / Hole d. 7	0489	—	—	—
	Indice Graduato Foro d. 10 / Hole d. 10	1718	1718	1718	—
19	Vite per Nonio M7x1	0476	—	—	—
	Vite per Nonio M10x1	1171	1171	1171	—
20	Vite di Bloccaggio Nonio	2148 6x20	2148 6x30	2148 6x20	—
21	Pastiglia in Ottone d.5	0123	0123	0123	—
22	Spina Fulcro per Leva	1156	1793	1793	—
23	Arresto Per Slitte	1580	1580	1580	—
24	Porta Camme	1430	1345	1345	2444
25	Camme	0658	0662	0662	0657

COMPLETI
COMPOUNDS **C**

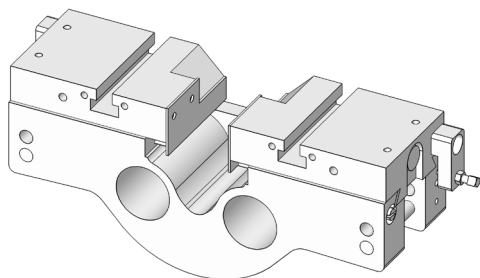
		TRAUB A.15 - 20 - 25	TRAUB A.36 - 42	TRAUB A.60
Pos.	COMPLETI	Art.	Art.	Art.
1 C	Completo Carrello Trasversale Posizioni da 1 a 11	2151	1018	2219
12 C	Completo Leva d.10 per Carrello Trasversale Posizioni da 12 a 21	7317	7318	7319

CARRELLI TRASVERSALI - ORIZZONTALI ITS E SAIC
 CROSSWISE SLIDES FOR ITS AND SAIC

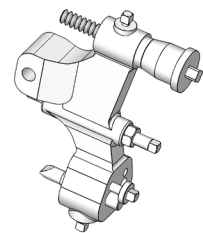


COMPLETI **C**
 COMPOUNDS

1 C



12 C



CARRELLI TRASVERSALI - ORIZZONTALI ITS E SAIC

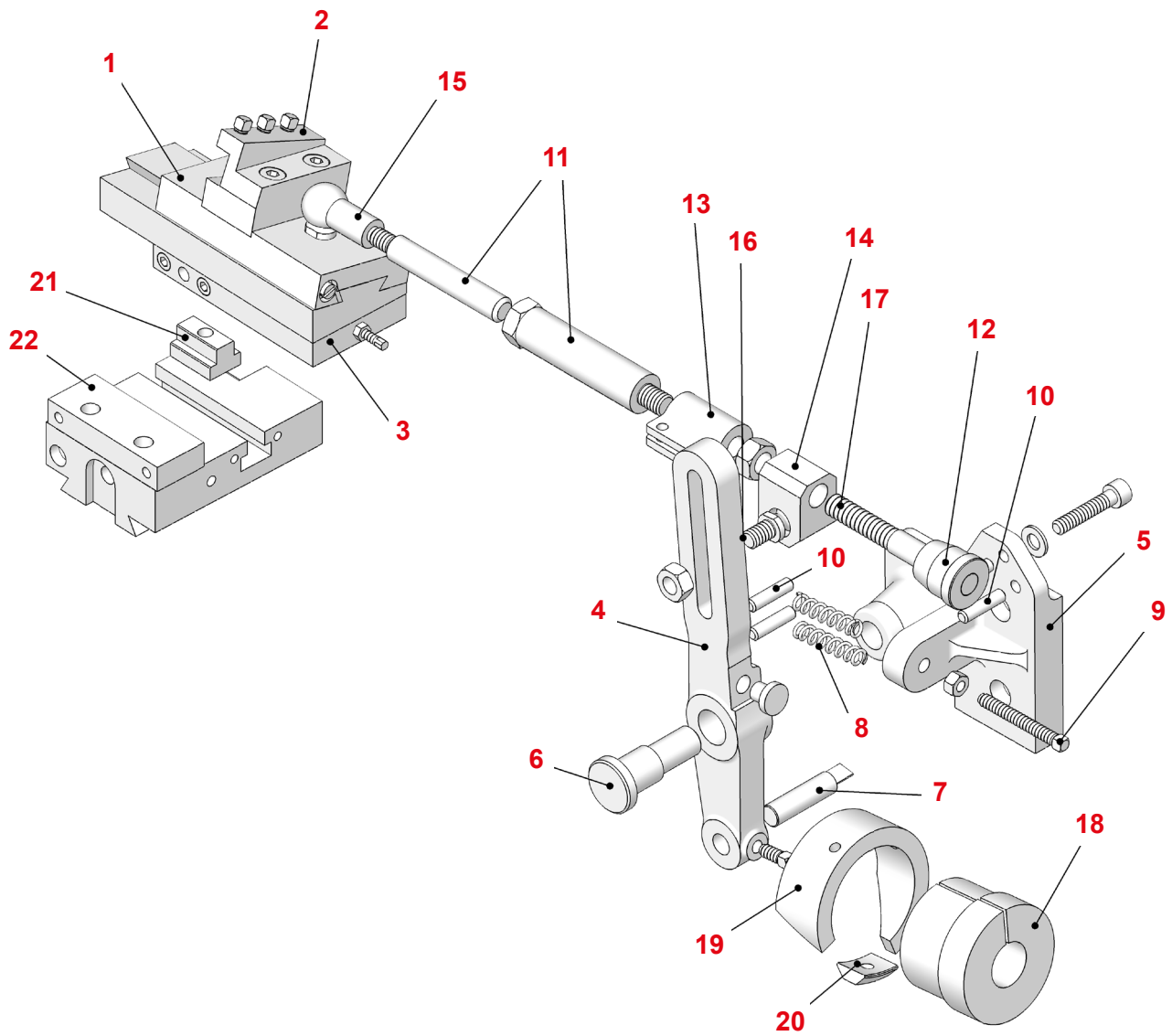
CROSSWISE SLIDES FOR ITS AND SAIC

		SAIC B.26 - 30	ITS 26	SAIC B.45
Pos.	COMPONENTI	Art.	Art.	Art.
1	Supporto Slitte	—	—	—
2	Slitta Anteriore	—	—	—
3	Slitta Posteriore	—	—	—
4	Perno Guida Molla	0236	0236	—
5	Perno Battuta Molla	1099	1099	—
6	Lamierino di Protezione	1122	1122	—
7	Lardone Anteriore	—	—	—
8	Lardone Posteriore	—	—	—
9	Vite Registro Lardone	1092	—	—
10	Perno di Arresto	1142	1142	—
11	Molla	0004	0004	—
12 A	Leva Carrello Trasversale Anteriore Foro d. 8 / Hole d. 8	1737	—	—
	Leva Carrello Trasversale Anteriore Foro d. 10 / Hole d. 10	1845	1845	—
	Leva Carrello Trasversale Anteriore Foro d. 12 / Hole d. 12	—	—	2434
12 P	Leva Carrello Trasversale Posteriore Foro d. 8 / Hole d. 8	1738	—	—
	Leva Carrello Trasversale Posteriore Foro d. 10 / Hole d. 10	1845	1845	—
	Leva Carrello Trasversale Posteriore Foro d. 12 / Hole d. 12	—	—	2437
13	Vite di Registro Leva	2148 7x70	2148 7x70	—
14	Vite di Registro Tastatori	1255	1255	1255
15	Vite di Bloccaggio Tastatori	2148 7x30	2148 7x30	2148 8x30
16	Tastatore Camme	1244	1244	1209
17	Nonio Graduato Foro d. 8 / Hole d. 8	2041	0316	—
	Nonio Graduato Foro d. 10 / Hole d. 10	1578	1578	—
	Nonio Graduato Foro d. 12 / Hole d. 12	—	—	2640
18	Indice Graduato Foro d. 8 / Hole d. 8	2040	0319	—
	Indice Graduato Foro d. 10 / Hole d. 10	1718	1718	—
	Indice Graduato Foro d. 12 / Hole d. 12	—	—	2641
19	Vite per Nonio M8x1	2265	0378	—
	Vite per Nonio M10x1	1171	1171	—
	Vite per Nonio M12x1	—	—	2642
20	Vite di Bloccaggio Nonio	2148 6x20	2148 6x20	2148 6x20
21	Pastiglia in Ottone d.5	0123	0123	0123
22	Spina Fulcro per Leva	1156	1156	—
23	Arresto Per Slitte	1580	1580	—
24	Porta Camme	2352	2352	—
25	Camme	0658	0658	0662

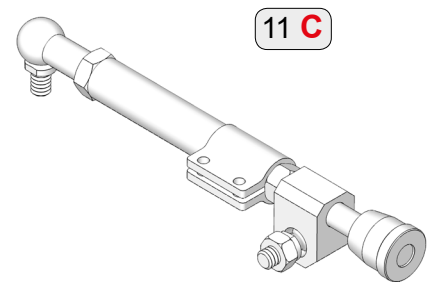
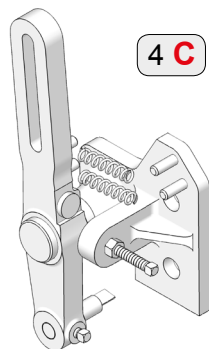
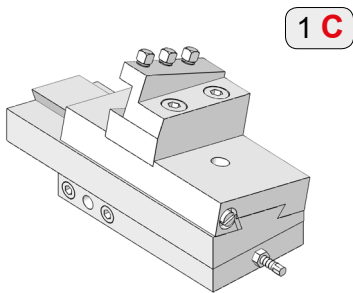
		SAIC B.26 - 30	ITS 26
Pos.	COMPLETI	Art.	Art.
1 C	Completo Carrello Trasversale Posizioni da 1 a 11	2181	2123
12 C	Completo Leva Foro d. 8 per Carrello Trasversale Posizioni da 12 a 21	7320	—
	Completo Leva Foro d.10 per Carrello Trasversale Posizioni da 12 a 21	7317	7317

CARRELLI TORNITURA LONGITUDINALE TRAUB E SAIC

LONGITUDINAL TURNING SLIDES FOR TRAUB AND SAIC



COMPLETI
COMPOUNDS **C**



CARRELLI TORNITURA LONGITUDINALE TRAUB E SAIC

LONGITUDINAL TURNING SLIDES FOR TRAUB AND SAIC

		TRAUB A.15 - 20 - 25	SAIC B.26 - 30	TRAUB A.36 - 42 - 60	TRAUB TB.30 - 42 - 60
Pos.	COMPONENTI	Art.	Art.	Art.	Art.
1	Carrello Tornitura Longitudinale	1495	1495	1753	2143
2	Porta Utensile	1457	1457	1472	2102
3	Supporto Carrello	—	—	1709	—
4	Leva Tornitura Longitudinale	1822	1822	1931	2142
5	Supporto Leva	1823	1823	1919	2141
6	Perno di Fissaggio	1179	1179	1179	0532
7	Tastatore con Rullo	0293	0293	1210	0551
	Tastatore a Penna (in alternativa al Tastatore con Rullo)	0224	0224	0294	—
8	Molla di Ritorno	0010	0010	0298	0524
9	Vite di Registro	2148 7x60	2148 7x60	2148 8x60	—
10	Perno Tendi Molla	0540	0540	0299	—
11	Asta con Registro d. 10	1530	1530	—	—
	Asta con Registro d. 12	1524	1524	—	—
12	Nonio Graduato Foro d. 10 / Hole d. 10	1578	1578	1578	—
	Nonio Graduato Foro d. 12 / Hole d. 12	1620	1620	—	—
13	Morsetto per Asta con Registro	1625	1625	—	—
14	Supporto Sferico per Asta con Registro	1619	1619	0535	—
15	Sede Sferica per Asta con Registro	1624	1624	1421	—
16	Perno Sferico per Asta con Registro	1134	1134	1121	—
17	Vite per Nonio	1621	1621	—	—
18	Porta Camme	1432	1432	2152	2164
19	Camme	0661	0661	0665	0664
20	Tassello Curvo	—	—	1148	1148
21	Tassello di Bloccaggio	1548	1548	—	—
22	Registro Carrello	0464	0464	—	—

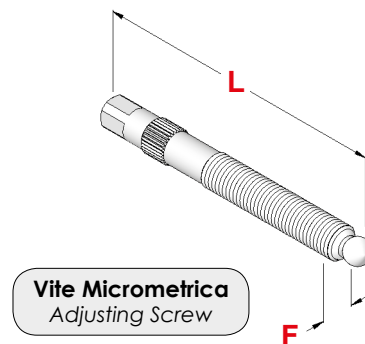
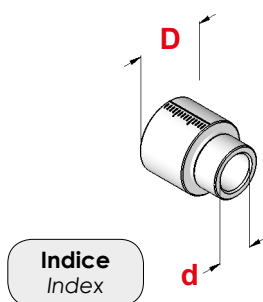
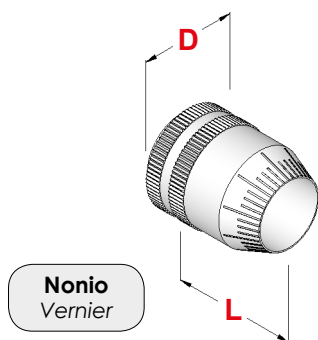
COMPLETI
COMPOUNDS **C**

		TRAUB A.15 - 20 - 25	SAIC B.26 - 30	TRAUB A.36 - 42 - 60	TRAUB TB.30 - 42 - 60
Pos.	COMPLETI	Art.	Art.	Art.	Art.
1 C	Completo Carrello Tornitura Longitudinale Posizioni da 1 a 3	7321	7321	7325	7328
4 C	Completo Leva Tornitura Longitudinale Posizioni da 4 a 10	7322	7322	7326	7329*
11 C	Completo Asta con Registro d. 10 Posizioni da 11 a 17	7323	7323	7327	7330
	Completo Asta con Registro d. 12 Posizioni da 11 a 17	7324	7324	—	—

* Posizioni da 4 a 8
Positions from 4 to 8

NONI, INDICI E VITI MICROMETRICHE PER CARRI VERTICALI

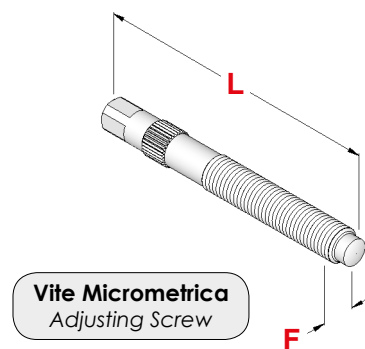
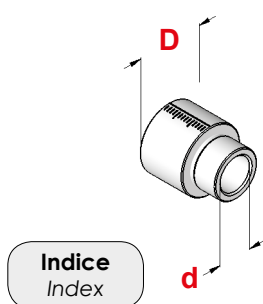
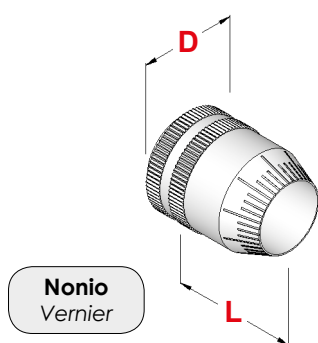
VERNIERS, INDEXES AND ADJUSTING SCREWS FOR VERTICAL SLIDES



MACCHINA	Art.	D	L	Art.	D	d	Art.	F	L
ITS 26	0316	35	24	0319	29	11	2064	8 x 1	72
SAIC B.26 - 30	2041	30	37	2040	16	11	2048	8 x 1	91
SAIC B.45	2640	30	46	2641	20	16	2642	12 x 1	105
STROHM 125	2644	30	42	2645	27	11	—	—	—
TRAUB A.15 (t.v.)	0475	20	20	0489	16	11	2071	7 x 1	69
TRAUB A.15 - 20 - 25	1578	31	29	1718	21	15	1973	10 x 1	87
TRAUB A.36 - 42 - 60	1578	31	29	1718	21	15	1973	10 x 1	87
TRAUB TB.30 - 42 - 60	1578	31	29	—	—	—	—	—	—

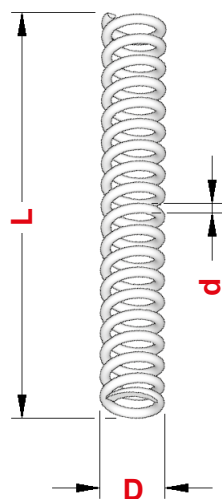
NONI, INDICI E VITI MICROMETRICHE PER CARRI TRASVERSALI

VERNIERS, INDEXES AND ADJUSTING SCREWS FOR CROSSWISE SLIDES



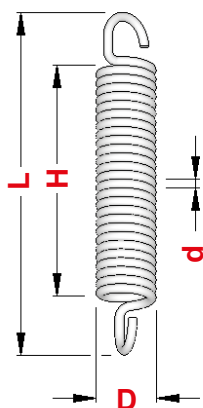
MACCHINA	Art.	D	L	Art.	D	d	Art.	F	L	Art.
ITS 26	0316	35	24	0319	29	11	0378	8 x 1	72	—
SAIC B.26 - 30	2041	26	34	2040	16	11	2265	8 x 1	86	—
SAIC B.45	2640	30	46	2641	20	16	2642	12 x 1	105	—
TRAUB A.15 (t.v.)	0475	20	21	0489	16	11	0476	7 x 1	69	—
TRAUB A.15 - 20 - 25	1578	31	29	1718	21	15	1171	10 x 1	87	—
TRAUB A.26	—	—	—	—	—	—	—	—	—	2079
TRAUB A.36 - 42 - 60	1578	31	29	1718	21	15	1171	10 x 1	87	—
TRAUB TB.30 - 42 - 60	2077	74	28	—	—	—	0625	tr. 25 x 3	121	0118

MOLLE PREMENTI PUSHING SPRINGS



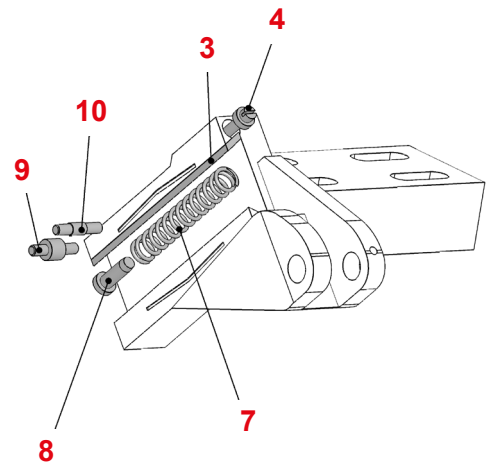
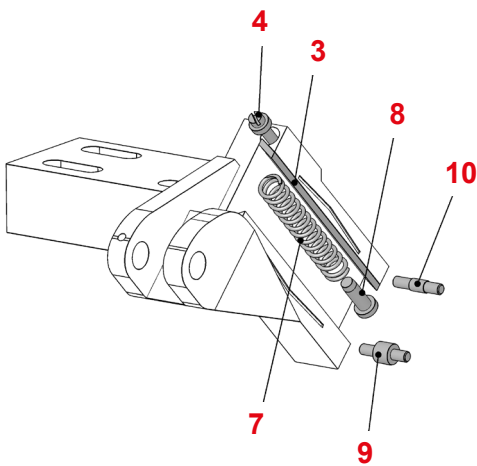
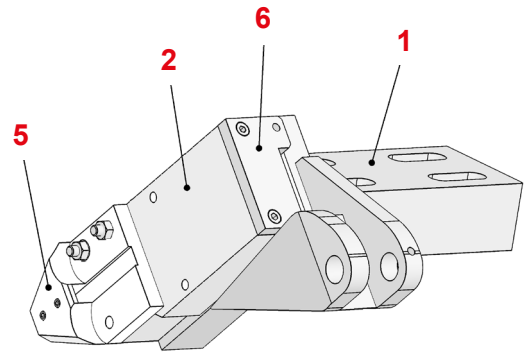
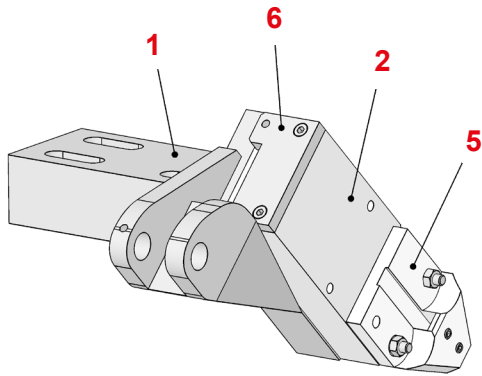
MACCHINA	Posizione - Position	Art.	D	L	d
CASER TA. 26 - 30	Carri Verticali / Carri Orizzontali	0043	11,5	87	2,0
CASER TA. 45 - 50	Carri Verticali / Carri Orizzontali	1854	15,6	138	3,0
GILDEMEISTER	Slitte P/Utensili	0050	14,5	100	2,5
GIORGI GM 20 - 25 - 32	Carri Verticali / Carri Orizzontali	1856	12,5	100	1,8
INDEX 25	Carri Orizzontali	0049	11,5	180	1,7
SAIC B.26 - 30	Carri Verticali / Carri Orizzontali	0004	13,0	100	2,0
	Ritorno Alberino (App. Fora Filetti)	1080	17,0	35	1,0
	Ribaltamento (App. Fora Filetti)	1857	12,5	19	3,0
	Disco Frizione	0032	7,0	50	1,0
	Fermo Barra Verticale	0448	17,0	86	2,0
STROHM 75 - 105 - 125	Carri Verticali	0008	9,0	125	1,2
TORNOS M4 - T4	Carri Verticali	1858	7,0	100	0,8
TORNOS M7 - MS7	Carri Verticali	1859	9,5	110	1,1
TRAUB A.15 - 20 - 25	Carri Verticali / Carri Orizzontali	0004	13,0	100	2,0
	Ritorno Canotti (App. Fora Filetti)	0001	10,0	176	1,5
		1928	14,0	121	1,5
	Ritorno Alberino (App. Fora Filetti)	1080	17,0	35	1,0
	Disco Frizione	0032	7,0	50	1,0
TRAUB TD.16 - 26 - 36	Carri Verticali	2332	15,0	215	2,0
	Carri Orizzontali	1975	11,5	155	1,6
TRAUB A.36 - 42 - 60	Carri Orizzontali	0165	14,0	120	2,2
	Carri Verticali	0002	13,0	155	2,0
	Disco Frizione	0419	10,0	60	1,5
TRAUB TB.30 - 42 - 60	Carri Verticali / Carri Orizzontali	0005	15,0	195	2,0
	Fermo Barra Verticale	2607	36,0	130	2,5
	Carri Tornitura Longitudinale	0524	14,0	327	2,0
—	Portamaschi e Portafilire	0046	14,0	30	1,0
—	Portamaschi e Portafilire	0030	15,0	40	1,2

MOLLE A TRAZIONE PULLING SPRINGS



MACCHINA	Posizione - Position	Art.	D	L	H	d
ITS 26	Ritorno Canotto (App. Fora Filetti)	1082	10	102	72	1,2
SAIC B.26 - 30	Ribaltamento (App. Fora Filetti)	0010	16	65	46	2,0
	Ritorno (App. Fora Filetti)	1086	11	159	123	1,8
	Ritorno Canotto (App. Fora Filetti)	0999	10	100	80	1,2
TRAUB A.15 - 20 - 25	Fermo Barra	0012	13	58	32	1,5
	Leva Tornitura Longitudinale	0010	16	65	46	2,0
	Ribaltamento (App. Fora Filetti)	0028	10	73	53	1,5
TRAUB A.36 - 42 - 60	Fermo Barra	0027	15	71	45	2,0
	Leva Tornitura Longitudinale	0298	16	129	97	2,2
TRAUB TB.30 - 42 - 60	Fermo Barra Verticale	2655	20	129	89	3,0

CARRELLI VERTICALI TRAUB TD.16 - 26 - 36
 VERTICAL SLIDES FOR TRAUB TD.16-26-36



CARRELLO VERTICALE ANTERIORE
 FORE VERTICAL SLIDE

CARRELLO VERTICALE POSTERIORE
 REAR VERTICAL SLIDE

		TRAUB TD.16 - 26 - 36
Pos.	COMPONENTI	Art.
1	Slitta Femmina	2109
2	Slitta Maschio	
3	Lardone con Vite di Registro	
4	Vite Registro Lardone	1505
5	Porta Utensile	2755
6	Piastrina per Molla	2318
7	Molla	2332
8	Perno Guidamolla	2333
9	Perno Fulcro Porta Utensile	2334
10	Perno Fissaggio Porta Utensile	2357

		TRAUB TD.16 - 26 - 36
Pos.	COMPONENTI	Art.
1	Slitta Femmina	2209
2	Slitta Maschio	
3	Lardone con Vite di Registro	
4	Vite Registro Lardone	1505
5	Porta Utensile	2755
6	Piastrina per Molla	2385
7	Molla	2332
8	Perno Guidamolla	2333
9	Perno Fulcro Porta Utensile	2334
10	Perno Fissaggio Porta Utensile	2357

PORTA CAMME A DISCO

DISK CAMS HOLDERS

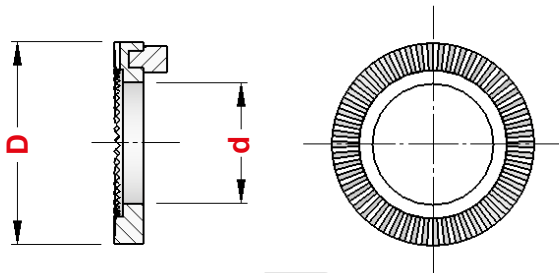


Fig. 1

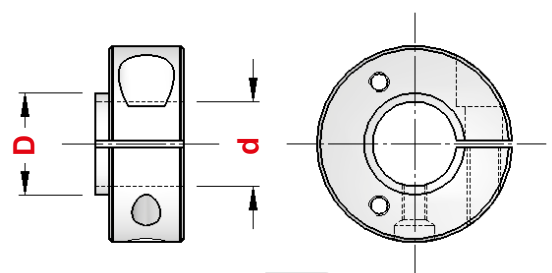


Fig. 2

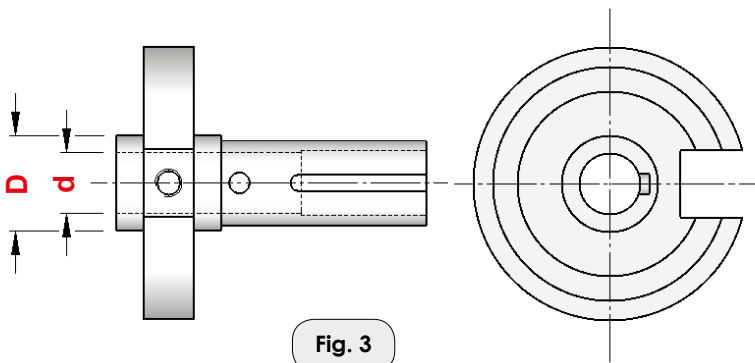


Fig. 3

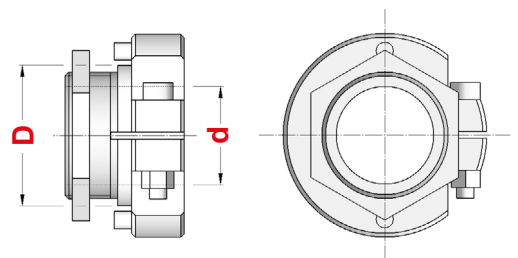






Fig. 4

MACCHINA	CARRI	Art.	D	d	Figura	 Art.	 Art.	 Art.	 Art.
INDEX DG.12	Trasversali	1893	50	30	1	—	—	—	—
INDEX 12 - 18 - 25	Trasversali	1897	56	32	1	—	—	—	—
INDEX 12 - 18 - 25	Verticali	1898	66	42	1	—	—	—	—
INDEX C.19 - C.29	Trasversali - Verticali	3182	60	36	1	—	—	—	—
INDEX 24 - 36 - 42 - 52 - 60	Trasversali	2936	68	40	1	—	—	—	—
INDEX B.42 - 60	Trasversali - Verticali	2936	68	40	1	—	—	—	—
ITS 26	Trasversali	2352	30	25	2	0658	—	—	—
ITS 26	Verticali	2632	46	25	2	0502	—	—	—
SAIC B.26 - 30	Trasversali	2352	30	25	2	0658	—	—	—
SAIC B.26 - 30	Verticali	2632	46	25	2	0502	—	—	—
STROHM 75 - 105 - 125	Trasversali	1777	28	18	3	—	—	—	—
TRAUB A.15 - 20 - 25	Trasversali	1430	30	25	2	0658	—	—	—
TRAUB A.15 - 20 - 25	Fermo Barra	1430	30	25	2	—	0516	—	—
TRAUB A.15 - 20 - 25	Verticali	1431	45	25	2	0659	—	—	—
TRAUB A.15 - 20 - 25	Ribaltamento Foro- Filetto	1547	36	25	2	—	—	0514	0515
TRAUB TD.16 - 26 - 36	Trasversali - Verticali	1463	40	30	4	—	—	—	—
TRAUB A.36 - 42 - 60	Trasversali - Fermo Barra	1345	40	32	2	0662	0517	—	—
TRAUB A.36 - 42 - 60	Verticali	1346	58	32	2	0663	—	—	—
TRAUB TB.30 - 42 - 60	Trasversali - Verticali	2444	45	35	2	0657	—	—	—

PORTA CAMME AD ANELLO
RING CAMS HOLDERS

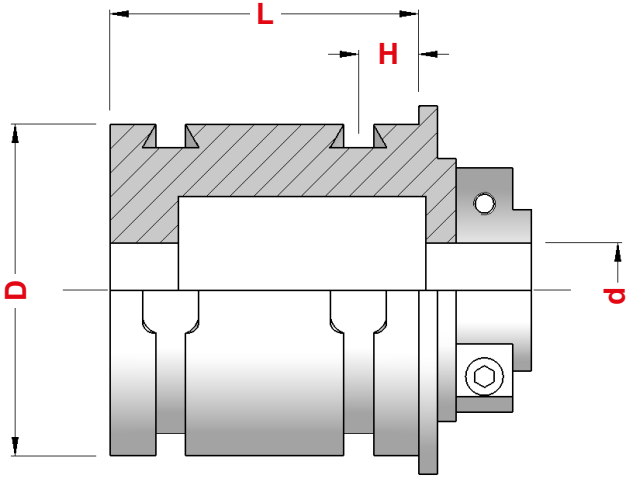


Fig. 1

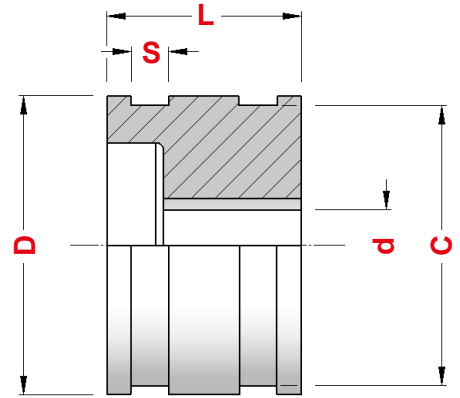


Fig. 2

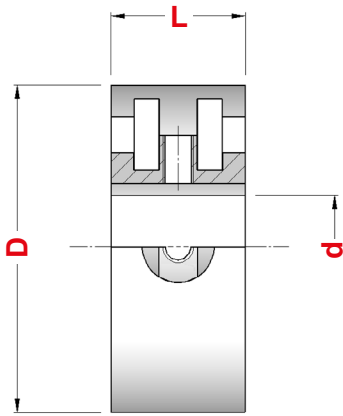


Fig. 3

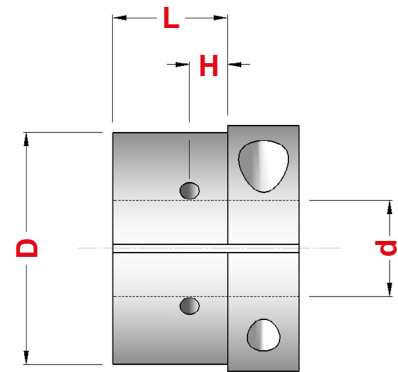


Fig. 4

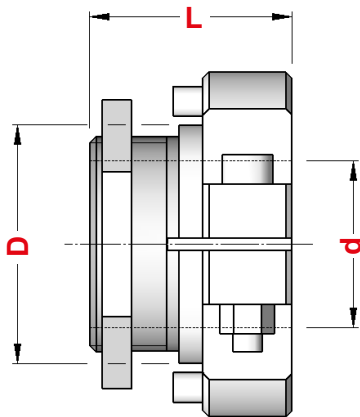


Fig. 5

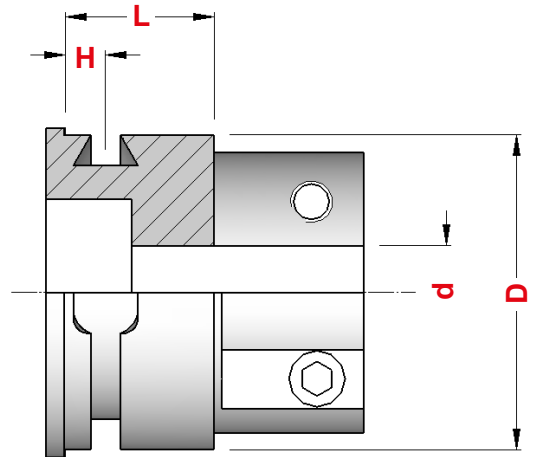
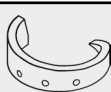






Fig. 6


PORTA CAMME AD ANELLO

RING CAMS HOLDERS

Per CONTROPUNTA <i>For Tailstock</i>							
MACCHINA	Art.	Figura	D	d	L	H	
GIORGI GM.20 - 25 - 32	2177	1	88	25	82	15	0503
ITS 26	2177	1	88	25	82	15	0503
ITS 36 - 42	2144	1	125	40	158	20	0664
SAIC A.26 - 30 - 32	2177	1	88	25	82	15	0503
SAIC B.26 - 30	2177	1	88	25	82	15	0503
SAIC A.30	1979	1	95	25	93	15	0660
SAIC B.45	2144	1	125	40	158	20	0664
SAIC B.45 - 3 Mandrini	2189	1	125	40	85	15	—
TRAUB A.15 - 20 - 25	1979	1	95	25	93	15	0660
TRAUB TD.16 - 26 - 36	1995	1	110	30	132	12,5	—
TRAUB A.36 - 42 - 60	2144	1	125	40	158	20	0664
TRAUB TB.30 - 42 - 60	2164	1	125	35	158	20	0664

Per APERTURA - CHIUSURA PINZA <i>For Open - Close Collet</i>										
MACCHINA	Art.	Figura	D	d	L	C	S			
SAIC B.26 - 30	1834	2	80	22	52	74	10	0636	0637	0638
STROHM 125	2008	3	64	22	27	—	—	—	—	—
STROHM 205 - 255	1020	3	86	28	35	—	—	—	—	—
TRAUB A.15 - 20 - 25	1832	2	80	20	52	74	10	0636	0637	0638
TRAUB TD.16 - 26 - 36	2157	2	115	30	73	110	54	—	—	—
TRAUB A.36 - 42 - 60	2168	2	120	28	72	110	15	2394	2395	2396
TRAUB TB.30 - 42 - 60	2176	2	140	30	92	130	15	1443	1444	1445
TRAUB TB.30 - 42 - 60	2167	2	140	35	80	130	15	1443	1444	1445

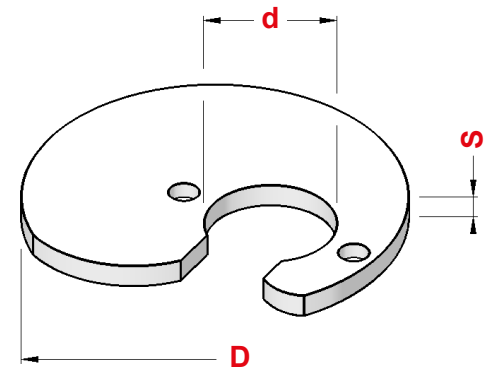
Per TORNITURA LONGITUDINALE <i>For Longitudinal Turning</i>							
MACCHINA	Art.	Figura	D	d	L	H	
GIORGI GM.20 - 25 - 32	1432	4	60	25	30	10	0661
ITS 26	1432	4	60	25	30	10	0661
SAIC B.26 - 30	1432	4	60	25	30	10	0661
TRAUB A.15 - 20 - 25	1432	4	60	25	30	10	0661
TRAUB TD.16 - 26 - 36	1463	5	40	30	19	—	—
TRAUB A.36 - 42 - 60	2152	6	95	32	100	15	0665
TRAUB TB.30 - 42 - 60	2164	1	125	35	158	20	0664

Per APPARECCHIO FORO-FILETTO <i>For Drill - Thread Device</i>							
MACCHINA	Art.	Figura	D	d	L	H	
ITS 26 (D = 84)	1310	6	84	25	28	11	1521
ITS 26 (D = 88)	1246	6	88	25	39	15	1531
SAIC B.26 - 30	1310	6	84	25	28	11	1521
SAIC A.30	1979	1	95	25	93	15	1555
TRAUB A.15 - 20 - 25	1979	1	95	25	93	15	1555

CAMME A DISCO PER CARRI TRASVERSALI E VERTICALI

DISK CAMS FOR CROSSWISE AND VERTICAL SLIDES

MACCHINA	CARRI	Art.	D	d	S
CASER TA.26 - 30	Trasversali - Verticali	0658	76	30	10
CASER TA.42 - 45 - 50	Trasversali - Verticali	0662	96	40	12
FEINLER FA.10 - 15	Trasversali - Verticali	0658	76	30	10
GIORGI GM. 20 - 25	Trasversali	0658	76	30	10
GIORGI GM. 30 - 32	Trasversali	0658	76	30	10
ITS 26	Trasversali	0658	76	30	10
ITS 26	Verticali	0502	80	46	10
ITS 36 - 42 - 60	Trasversali - Verticali	0675	130	45	12
SAIC A.26 - 30 - 32	Trasversali - Verticali	0658	76	30	10
SAIC B.26 - 30	Trasversali	0658	76	30	10
SAIC B.26 - 30	Verticali	0502	80	46	10
SAIC B.45	Trasversali	0662	96	40	12
TRAUB A.15 - 20 - 25	Trasversali	0658	76	30	10
TRAUB A.15 - 20 - 25	Verticali	0659	90	45	10
TRAUB A.26	Trasversali - Verticali	0662	96	40	12
TRAUB A.36 - 42 - 60	Trasversali	0662	96	40	12
TRAUB A.36 - 42 - 60	Verticali	0663	118	58	12
TRAUB TB.30 - 42 - 60	Trasversali - Verticali	0657	160	45	12



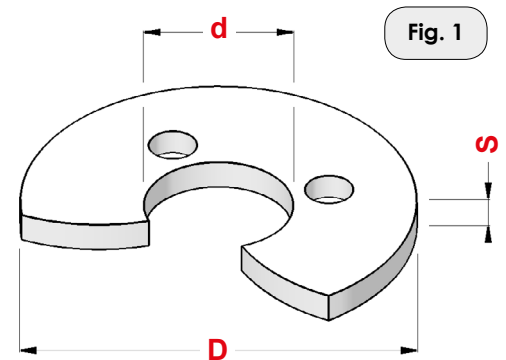
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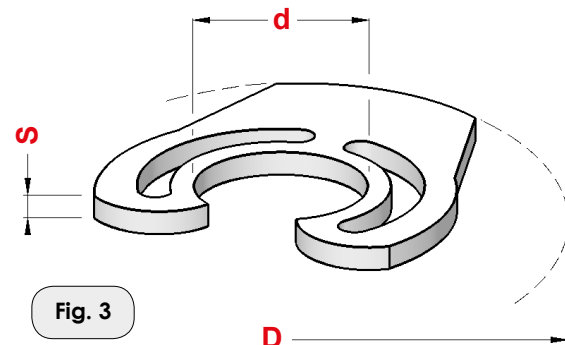
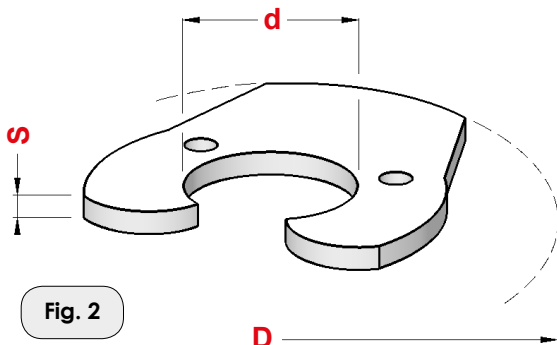
CAMME A DISCO PER RIBALTAMENTO APPARECCHIO FORO-FILETTI

DISK CAMS FOR DRILL-THREAD DEVICE

MACCHINA	Art.	Gradi	Corsa	D	d	S	Figura
ITS 26	1581	120° - 150° 180° - 220°	0	106	30	12	1
SAIC B.26 - 30	1582	120° - 150° 180° - 220°	0	88	30	10	1



MACCHINA	Art.	Gradi	Corsa	D	d	S	Figura
TRAUB A.15 - 20 - 25	0514	-----	-----	90	36	5	2
TRAUB A.15 - 20 - 25	0515	-----	-----	90	36	5	3



CAMME PER FERMO BARRA DISK CAMS FOR BAR STOP

MACCHINA	Art.	Gradi	R	d	Figura
GIORGI GM. 20 - 25 - 30 - 32	1130	46°	36	30	1
ITS 26	1130	46°	36	30	1
SAIC B.26 - 30	1130	46°	36	30	1
SAIC B.45	0517	42°	47	40	1
TRAUB A.15 - 20 - 25	0516	46°	36	30	1
TRAUB A.36 - 42 - 60	0517	42°	47	40	1
TRAUB TB.30 - 42 - 60	0596	48°	80	45	2

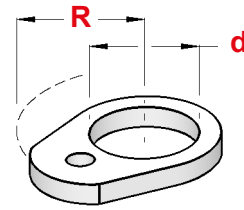


Fig. 1

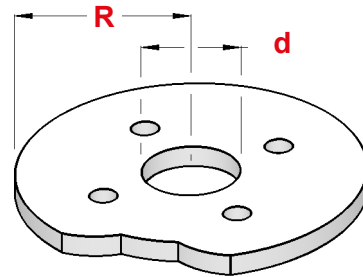
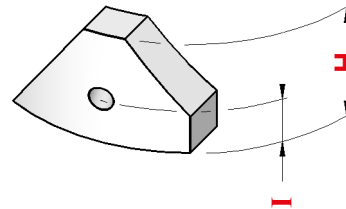


Fig. 2

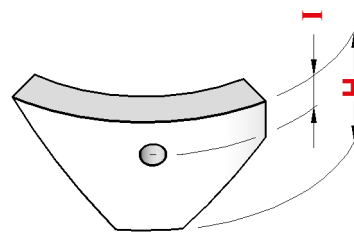
CAMME PER APERTURA e CHIUSURA PINZA RING CAMS FOR COLLET OPEN-CLOSE

MACCHINA	Art.	H	I	Figura
GIORGI GM. 20 - 25 - 30 - 32	0636	24	11	1
ITS 26				
SAIC A.26 - 30 - 32				
SAIC B.26 - 30				
TRAUB A.15 - 20 - 25	2394	32	12,5	1
TRAUB A.36 - 42 - 60				
TRAUB TB.30 - 42 - 60				
	1443	42,5	12,5	1



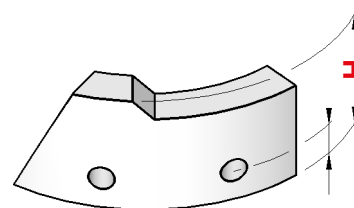
Camma Contro
Counter Cam
Fig. 1

MACCHINA	Art.	H	I	Figura
GIORGI GM. 20 - 25 - 30 - 32	0637	29	11	2
ITS 26				
SAIC A.26 - 30 - 32				
SAIC B.26 - 30				
TRAUB A.15 - 20 - 25	2395	39	12,5	2
TRAUB A.36 - 42 - 60				
TRAUB TB.30 - 42 - 60				
	1444	47	12,5	2



Camma Apertura
Opening Cam
Fig. 2

MACCHINA	Art.	H	I	Figura
GIORGI GM. 20 - 25 - 30 - 32	0638	32	11	3
ITS 26				
SAIC A.26 - 30 - 32				
SAIC B.26 - 30				
TRAUB A.15 - 20 - 25	2396	35	12,5	3
TRAUB A.36 - 42 - 60				
TRAUB TB.30 - 42 - 60				
	1445	49	12,5	3

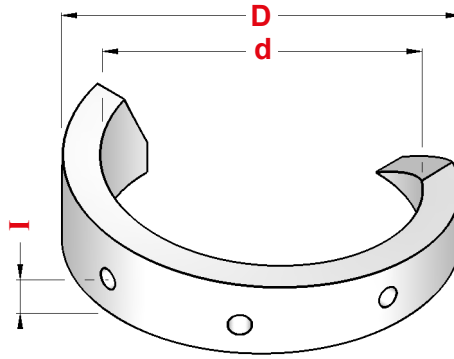


Camma Chiusura
Closing Cam
Fig. 3

CAMME PER CONTROPUNTA A FORARE

RING CAMS FOR BORE TAILSTOCK

MACCHINA	Art.	D	d	I
GIORGI GM. 20 - 25 - 30 - 32	0503	108	88	15
ITS 26	0503	108	88	15
ITS 36 - 42 - 60	0664	150	125	20
SAIC A.26 - 30 - 32	0503	108	88	15
SAIC B.26 - 30	0503	108	88	15
SAIC B.45	0664	150	125	20
TRAUB A.15 - 20 - 25	0660	115	95	15
TRAUB A.36 - 42 - 60	0664	150	125	20
TRAUB TB.30 - 42 - 60	0664	150	125	20



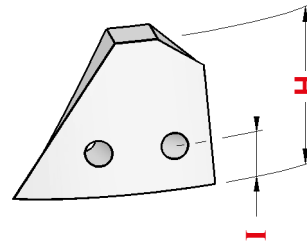
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CAMME PER RITORNO CONTROPUNTA

RING CAMS FOR TAILSTOCK RETURN

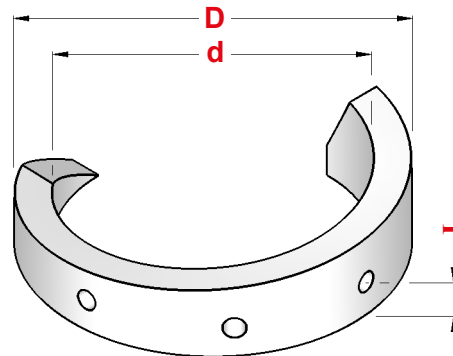
MACCHINA	Art.	Gradi	H	I
GIORGI GM. 20 - 25 - 30 - 32	0507	56°	62	20
ITS 26	0507	56°	62	20
ITS 36 - 42 - 60	0512	90°	125	20
SAIC A.26 - 30 - 32 / B.26 - 30	0507	56°	62	20
SAIC B.45	0512	90°	125	20
TRAUB A.15 - 20 - 25	0511	60°	70	20
TRAUB A.36 - 42 - 60	0512	90°	125	20
TRAUB TD.16 - 26 - 36	0685	90°	112	20



CAMME PER TORNITURA LONGITUDINALE

RING CAMS FOR LONGITUDINAL TURNING

MACCHINA	Art.	D	d	I
CASER TA 26 - 30	0661	80	60	10
GIORGI GM. 20 - 25 - 30 - 32	0661	80	60	10
ITS 26	0661	80	60	10
ITS 36 - 42 - 60	0665	115	95	15
SAIC A.26 - 30 - 32	0661	80	60	10
SAIC B.26 - 30	0661	80	60	10
TRAUB A.15 - 20 - 25	0661	80	60	10
TRAUB A.36 - 42 - 60	0665	115	95	15
TRAUB TB.30 - 42 - 60	0664	150	125	20



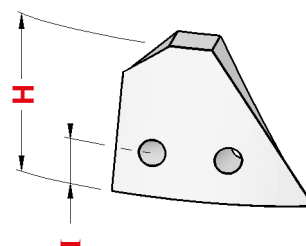
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CAMME PER RITORNO TORNITURA LONGITUDINALE

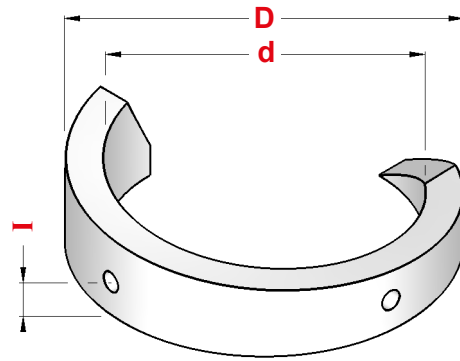
RING CAMS FOR LONGITUDINAL TURNING RETURN

MACCHINA	Art.	Gradi	H	I
CASER TA 26 - 30	0505	50°	49	10
GIORGI GM. 20 - 25 - 30 - 32	0505	50°	49	10
ITS 26	0505	50°	49	10
ITS 36 - 42 - 60	0506	90°	125	20
SAIC A.26 - 30 - 32 / B.26 - 30	0505	50°	49	10
SAIC B.45	0506	90°	125	20
TRAUB A.15 - 20 - 25	0505	50°	49	10



CAMME PER FORARE - APPARECCHIO FORO-FILETTI
 DRILLING RING CAMS FOR DRILL-THREAD DEVICE

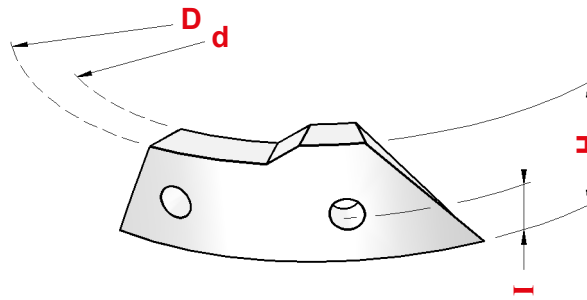
MACCHINA	Art.	D	d	I
GIORGI GM. 20-25-30-32	1510	104	80	11
ITS 26 (d = 84)	1521	108	84	11
ITS 26 (d = 88)	1531	108	88	15
SAIC A.26-30-32	1521	108	84	11
SAIC B.26-30	1521	108	84	11
TRAUB A.15-20-25	1555	115	95	15



Sul listino sono elencati tutti i **GRADI** e le **CORSE** disponibili

On price list are listed all **DEGREES** and **STROKES** available

CAMME PER IMBOCCO FILETTO - APPARECCHIO FORO-FILETTI
 THREAD ENTRANCE CAMS FOR DRILL-THREAD DEVICE

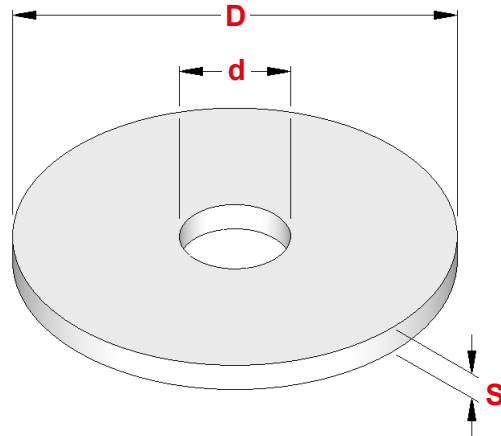


MACCHINA	Art.	Gradi	D	d	I	H
GIORGI GM. 20-25-30-32	1579	40°	104	80	11	24
		50°				
		60°				
		70°				
		80°				
ITS 26 (d = 84)	1585	40°	108	84	11	30
		50°				
		60°				
		70°				
		80°				
ITS 26 (d = 88)	1587	40°	108	88	15	30
		50°				
		60°				
		70°				
		80°				
SAIC A.26-30-32 SAIC B.26-30	1585	40°	108	84	11	30
		50°				
		60°				
		70°				
		80°				
TRAUB A.15-20-25	1588	40°	115	95	15	30
		50°				
		60°				
		70°				
		80°				
100°						

DISCHI IN ACCIAIO PER CAMME

STEEL DISKS FOR CAMS

Art.	D	d	S
2671 078030	78	30	10
2671 088030	88	30	10
2671 090045	90	45	10
2671 098040	98	40	12
2671 100028	100	28	8
2671 106030	106	30	12
2671 110020	110	20	8
2671 115030	115	30	6
2671 118058	118	58	12
2671 120020	120	20	8
2671 120028	120	28	8
2671 120030	120	30	7
2671 125020	125	20	8
2671 125028	125	28	8
2671 125032	125	32	8
2671 125042	125	42	8
2671 130030	130	30	6
2671 130045	130	45	12
2671 140020	140	20	8
2671 140036	140	36	8
2671 150040	150	40	10
2671 150050	150	50	10
2671 156028	156	28	8
2671 160026	160	26	10
2671 160032	160	32	8
2671 160040	160	40	10
2671 160045	160	45	12
2671 166032	166	32	8
2671 175035	175	35	10
2671 180020	180	20	8
2671 200026	200	26	10
2671 200030	200	30	10
2671 200032	200	32	8
2671 200036	200	36	8
2671 200040	200	40	10
2671 240040	240	40	10
2671 260026	260	26	10



DISCHI IN GHISA PER CAMME

CAST IRON DISKS FOR CAMS

Art.	D	d	S
2672 120020	120	20	8
2672 120028	120	28	8
2672 125020	125	20	8
2672 125028	125	28	8
2672 150050	150	50	10
2672 156028	156	28	8
2672 160026	160	26	10
2672 175035	175	35	10
2672 180020	180	20	8
2672 200026	200	26	10
2672 205050	205	50	10
2672 260026	260	26	10

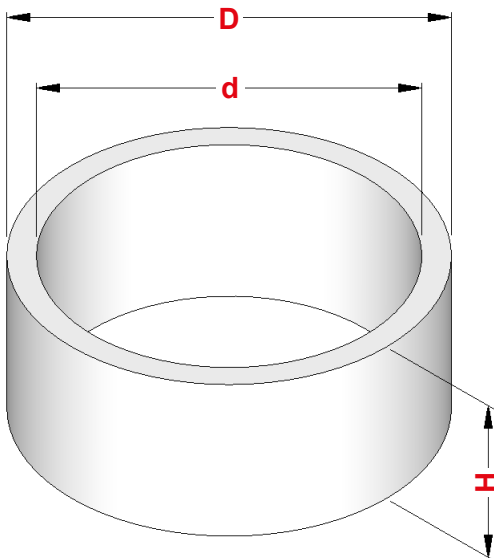
ANELLI IN ACCIAIO PER CAMME

STEEL RINGS FOR CAMS

Art.	H	D	d
2673 060040	40	80	60
2673 060050	50		
2673 060060	60		
2673 060070	70		
2673 060080	80		
2673 078050	50	99	78
2673 078060	60		
2673 078070	70		
2673 078080	80		
2673 080030	30	104	80
2673 080040	40		
2673 080050	50		
2673 080080	80		
2673 080100	100		
2673 084030	30	108	84
2673 084040	40		
2673 084050	50		
2673 084060	60		
2673 084070	70		
2673 084080	80		
2673 084090	90		
2673 088040	40		
2673 088050	50		
2673 088060	60		
2673 088070	70		
2673 088080	80		
2673 088090	90		
2673 088100	100		
2673 088110	110		
2673 088120	120		

Art.	H	D	d
2673 095040	40	115	95
2673 095050	50		
2673 095060	60		
2673 095070	70		
2673 095080	80		
2673 095090	90		
2673 095100	100		
2673 095110	110		
2673 095120	120		
2673 104050	50	120	104
2673 110040	40	130	110
2673 110050	50		
2673 110060	60		
2673 110070	70		
2673 110080	80		
2673 110090	90		
2673 110100	100		
2673 110110	110		
2673 110120	120		
2673 125050	50	150	125
2673 125060	60		
2673 125070	70		
2673 125080	80		
2673 125090	90		
2673 125100	100		
2673 125110	110		
2673 125120	120		
2673 125130	130		
2673 125140	140		
2673 125150	150		

segue ➡



ANELLI IN GHISA PER CAMME

CAST IRON RINGS FOR CAMS

Art.	H	D	d
2674 104050	50	120	104
2674 136050	50	160	136
2674 176071	71	200	176

TASSELLI DI BLOCCAGGIO PER CAMME CAM LOCKING DOWELS

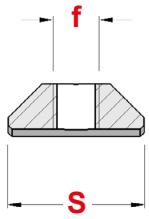


Fig. 1

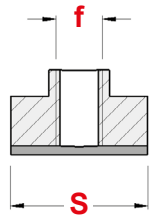
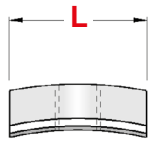


Fig. 2

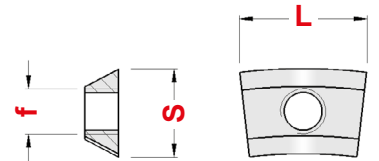
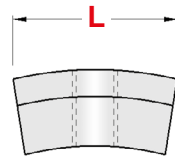
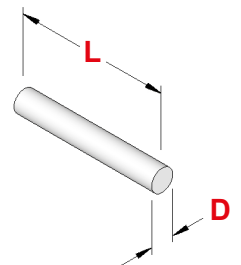
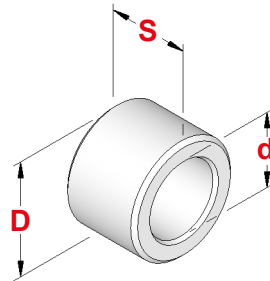
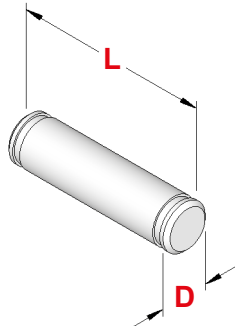
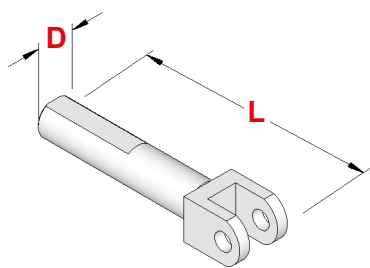
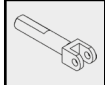





Fig. 3

MACCHINA	CAMME	Art.	f	S	L	Figura
CASER TA.26 - 30	Contropunta - Foro Filetto	2578	M 8	15,5	22	1
GIORGI GM.20 - 25 - 32	Contropunta	2576	M 6	15	22	1
GIORGI GM.20 - 25 - 32	Foro Filetto	1137	M 6	19	20	1
ITS 26	Contropunta - Foro Filetto	2576	M 6	15	22	1
ITS 36 - 42 - 60	Contropunta - Torretta	2658	M 8	16	29	2
SAIC B.26 - 30	Contropunta - Foro Filetto	2576	M 6	15	22	1
STROHM 75 - 105 - 125	Apparecchio 3 Mandrini	1144	M 5	11,2	14	1
STROHM 75 - 105 - 125	Apparecchio 3 Mandrini	1145	M 6	11,2	14	1
STROHM 75 - 105 - 125	Carri Verticali	1146	M 6	11,5	15	3
STROHM 205 - 255	Apparecchio 3 Mandrini	1197	M 8	21	24	1
TRAUB A.15 - 20 - 25	Contropunta - Foro Filetto	1147	M 6	18	18	1
TRAUB TD.16 - 26 - 36	Contropunta	1147	M 6	18	18	1
TRAUB A.36 - 42 - 60	Contropunta - Torretta	1148	M 8	20	24	1
TRAUB TB.30 - 42 - 60	Contropunta - Torretta	1148	M 8	20	24	1

SPINTORI PER CAMME STROHM 75 - 105 - 125 CAM PUSHERS FOR STROHM 75 - 105 - 125



MACCHINA	Posizione													
		Art.	D	L	Art.	D	L	Art.	D	d	S	Art.	D	L
STROHM 75-105-125	Fantina	1191	12	75	0288	6	23	1193	14,25	9,25	10	0442	1,5	9,8

TASTATORI IN ACCIAIO

STEEL TASTERS

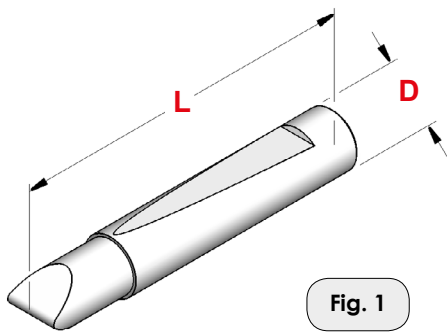


Fig. 1

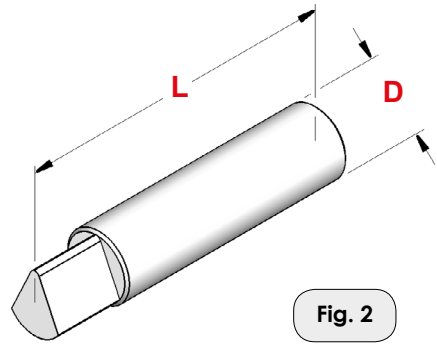


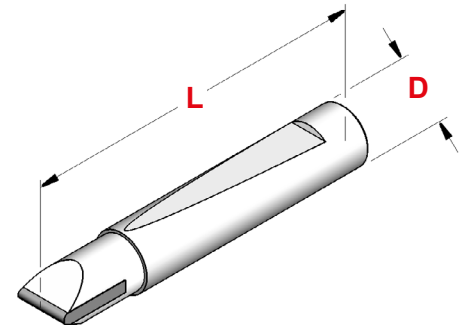
Fig. 2

MACCHINA	CARRI	Art.	D	L	Figura
GIORGI GM.20 - 25 - 32	Verticali - Orizzontali	1244	10	60	1
ITS 26	Verticali - Orizzontali	1244	10	60	1
ITS 26	Tornitura Longitudinale	0224	12	55	2
ITS 36 - 42 - 60	Verticali - Orizzontali	1209	12	75	1
SAIC B.26 - 30	Verticali - Orizzontali	1244	10	60	1
SAIC B.26 - 30	Tornitura Longitudinale	0224	12	55	2
SAIC B.45	Verticali - Orizzontali	1209	12	72	1
TRAUB A.15 - 20 - 25	Verticali - Orizzontali	1244	10	60	1
TRAUB A.15 - 20 - 25	Tornitura Longitudinale	0224	12	55	2
TRAUB A.36 - 42 - 60	Verticali - Orizzontali	1209	12	72	1
TRAUB A.36 - 42 - 60	Tornitura Longitudinale	0294	14	65	2
TRAUB TD.16 - 26 - 36	Verticali - Orizzontali	1244	10	60	1
TRAUB TB.30 - 42 - 60	Verticali	1209	12	72	1
TRAUB TB.30 - 42 - 60	Orizzontali	0567	16	60	1

TASTATORI CON METALLO DURO

TASTERS WITH SOLID CARBIDE

MACCHINA	CARRI	Art.	D	L
BECHLER AR.10	Verticali - Orizzontali	1669	10	65
GIORGI GM.20 - 25 - 32	Verticali - Orizzontali	1670	10	60
ITS 26	Verticali - Orizzontali	1670	10	60
ITS 36 - 42 - 60	Verticali - Orizzontali	1671	12	75
SAIC B.26 - 30	Verticali - Orizzontali	1670	10	60
SAIC B.45	Verticali - Orizzontali	1671	12	75
STROHM 125	Verticali - Orizzontali	1673	7	27
TRAUB A.15 - 20 - 25	Verticali - Orizzontali	1670	10	60
TRAUB A.36 - 42 - 60	Verticali - Orizzontali	1671	12	75
TRAUB TD.16 - 26 - 36	Verticali - Orizzontali	1670	10	60
TRAUB TB.30 - 42 - 60	Verticali - Orizzontali	1671	12	75



PERNI E RULLI PER CAMME

PINS AND ROLLERS FOR CAMS

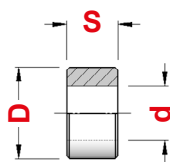


Fig. 1

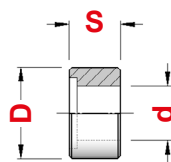


Fig. 2

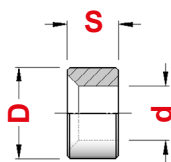


Fig. 3

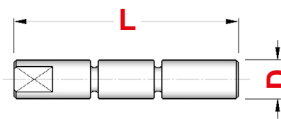


Fig. 4

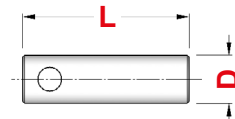


Fig. 5

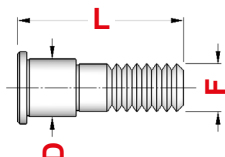


Fig. 6

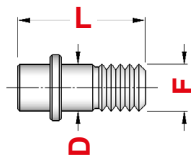


Fig. 7

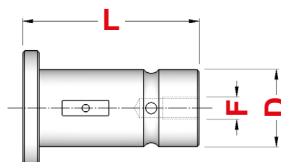


Fig. 8

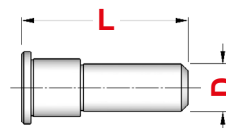


Fig. 9

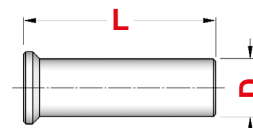


Fig. 10

MACCHINA	Posizione	Perno Pin				Rullo Roller				Completo Complete		
		Art.	D	L	F	Fig.	Art.	D	d		S	Fig.
ATA 25 - 40	Torretta / Carri	2669	10	40	—	4	2668	17	10	14	1	—
BROWN & SHARPE 00	Carri	0088	6,35	28,5	—	5	0287	12,7	6,35	9,5	1	—
CASER TA.26 - 30	Contropunta etc.	1066	12	26	10x1	6	0057	18	12	11	1	—
DAR 46	Carri	0329	8	30	—	4	0109	18	8	12	1	—
	Torretta	0360	8	47	—	4	1123	18	8	14	1	—
FEINLER FA.10 - 15	Contropunta	2760	10	29,5	M10	7	0534	18	10	10	1	—
	Ap.Ch. Pinza	2797	10	34	M10	7	0234	16	8	8	1	—
GILDEMEISTER AS.32	Carri	2608	18	40	M5	8	2609	29,5	18	13	2	—
GILDEMEISTER AS.48	Carri	3201	20	45	M6	8	3202	30	20	15	2	—
GIORGI GM.20 - 25 - 32	Contropunta Ap.Ch. Pinza	0626	11	36	M10	6	0627	17	11	14	2	—
INDEX ON.12 - DG.12	Torretta / Carri	1801	6	28	—	4	0346	14	6	8	1	—
INDEX ON.12 - OR.12	Carri	—	—	—	—	—	0234	16	8	8	1	—
INDEX 12 - 18 - 25	Torretta / Carri	1589	6	36	—	4	0213	14	6	12	1	—
	Torretta / Carri	1590	6	40	—	4	0213	14	6	12	1	—
INDEX 24 - C.19 - C.29	Torretta / Carri	2701	7	40	—	4	2702	16	7	12	1	—
INDEX 36 - 42 - 52	Torretta / Carri	0360	8	47	—	4	1123	18	8	14	1	—
INDEX B.30 - 42 - 60	Torretta / Carri	0360	8	47	—	4	1123	18	8	14	1	—
INDEX OR.12 - DG.12	Doppio Scatto Torr.	—	7	22	6x0,75	6	2855	10,8	7	7	1	1698
INDEX 12 - 18 - 25 - C.19	Doppio Scatto Torr.	—	9	24	6x0,75	6	0127	12,8	9	8	1	0124
INDEX 24 - 36 - 42 - 52	Doppio Scatto Torr.	—	12	32	8x1	6	0265	17,8	12	10	1	0264
INDEX B.30 - 42 - 60	Doppio Scatto Torr.	—	12	32	8x1	6	0265	17,8	12	10	1	0264
ITS 26	Contropunta Ap.Ch. Pinza	1955	10	37	—	9	0627	17	11	14	2	—
	Contropunta	2732	12	42	—	10	2734	18	12	12	3	—
	Ap.Ch. Pinza	0052	10	41,3	—	9	0528	17	12	13	2	—
ITS 36 - 42 - 60	Torretta	2732	12	42	—	10	2734	18	12	12	3	—
	Contropunta Ap.Ch. Pinza	2733	12	66	—	10	2734	18	12	12	3	—
LOGOS L.42 - 52	Torretta / Carri	0329	8	30	—	4	0109	18	8	12	1	—

segue ➔

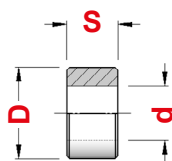


Fig. 1

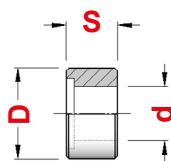


Fig. 2

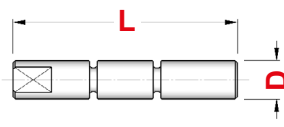


Fig. 4

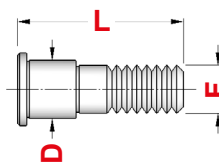


Fig. 6

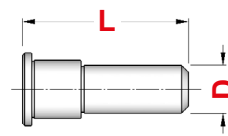


Fig. 9

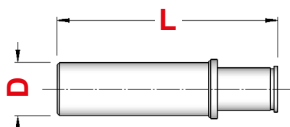


Fig. 11

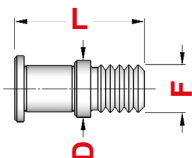


Fig. 12

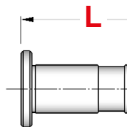


Fig. 13

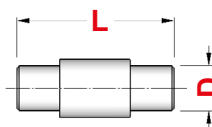
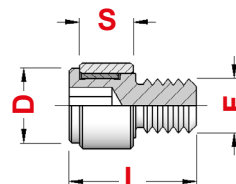


Fig. 14

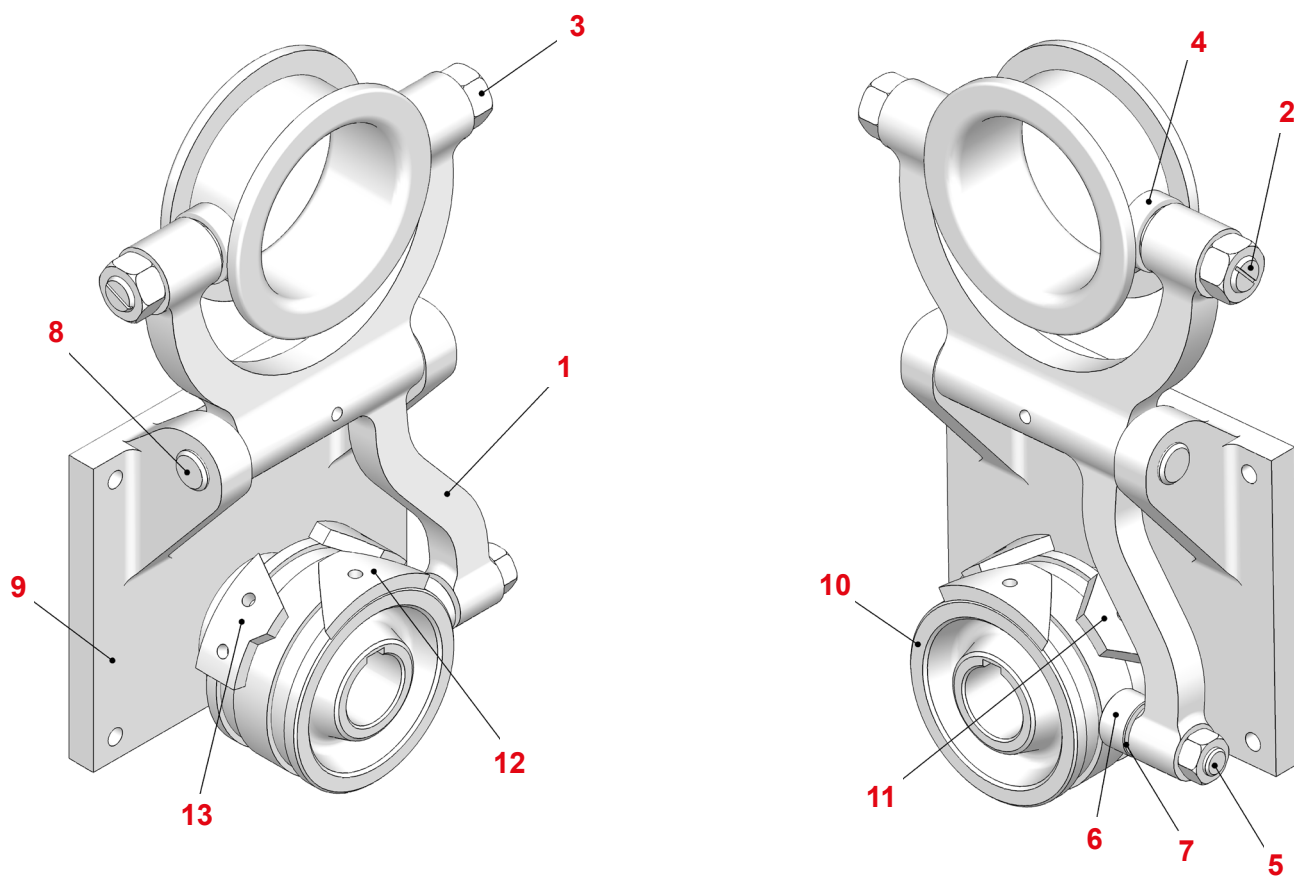


Completo

MACCHINA	Posizione	Perno Pin					Rullo Roller					Rullini Needle Roller			Completo Complete
		Art.	D	L	F	Fig.	Art.	D	d	S	Fig.	Art.	D	L	Art.
MAS 32 - 40 - 50	Torretta / Carri	2669	10	40	—	4	2668	17	10	14	1	—	—	—	—
SAIC B.26 - 30	Ap.Ch. Pinza	1955	10	37	—	9	0627	17	11	14	2	—	—	—	
	Contropunta Foro-Filetto	1158	12	30	M10	6	1159	18	12	10	2	—	—	—	
	Ap.Ch. Pinza	0052	10	41,3	—	9	0528	17	12	13	2	—	—	—	
	Tornitura Longit.	—	12	52	—	11	1577	16	12	10	1	—	—	—	0293
SAIC A.30	Contropunta Ap.Ch. Pinza	1162	12	24	M10	6	1577	16	12	10	1	—	—	—	
	Contropunta Ap.Ch. Pinza	0483	12	23	M10	12	1577	16	12	10	1	0478	1	6,8	1699
SAIC B.45	Contropunta Ap.Ch. Pinza	2050	18	44	M14	6	2051	24,5	18	14	2	—	—	—	
SKODA A.50A	Torretta / Carri	2669	10	40	—	4	2668	17	10	14	1	—	—	—	
TAREX L.42 - 52	Torretta / Carri	0058	8	42	—	4	0374	18	8	18	1	—	—	—	
TAREX H.64	Torretta	2654	10	28,5	M8	6	—	20	10	10	1	—	—	—	
TRAUB A.15 - 20 - 25	Tornitura Longit.	—	12	52	—	11	1577	16	12	10	1	—	—	—	0293
	Foro-Filetto	1162	12	24	M10	6	1577	16	12	10	1	—	—	—	
	Foro-Filetto	0483	12	23	M10	12	1577	16	12	10	1	0478	1	6,8	1699
	Contropunta Ap.Ch. Pinza	1700	12	35	M10	6	1577	16	12	10	1	—	—	—	
TRAUB TD.16 - 26 - 36	Torretta Ap.Ch. Pinza	0463	10	28	—	13	1959	20	10	8	1	—	—	—	
	Torretta Ap.Ch. Pinza	0463	10	28	—	13	0494	20	13	8	1	0495	1,5	7,8	1988
	Guida Asta Torretta	0330	8	33	—	14	0331	12	8	10	—	—	—	—	
	Spina di Sicurezza	0397	4	32	—	4	—	—	—	—	—	—	—	—	
TRAUB A.36 - 42 - 60	Tornitura Longit.	—	14	52	—	11	1577	16	12	10	1	—	—	—	1210
	Contropunta	1161	15	36	M12	6	1574	20	15	11	1	—	—	—	
	Contropunta Ap.Ch. Pinza	1160	15	40	M12	6	1575	25	15	14	2	—	—	—	
TRAUB TB.30 - 42 - 60	Fermo Barra Vert.	0483	12	23	M10	12	1577	16	12	10	1	0478	1	6,8	1699
	Torretta Ap.Ch. Pinza etc.	1683	15	34	M12	12	1684	22	15	12	2	0410	1,5	11,8	0551
	Guida Asta Torretta	0330	8	33	—	14	0331	12	8	10	—	—	—	—	

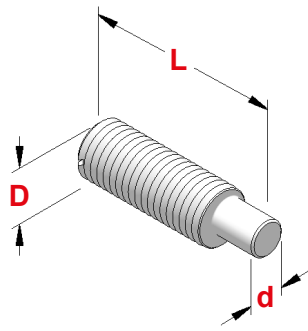
DISPOSITIVO DI APERTURA E CHIUSURA PINZA TRAUB E SAIC

OPENING-CLOSING COLLET DEVICE FOR TRAUB AND SAIC



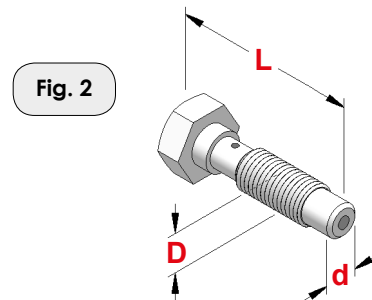
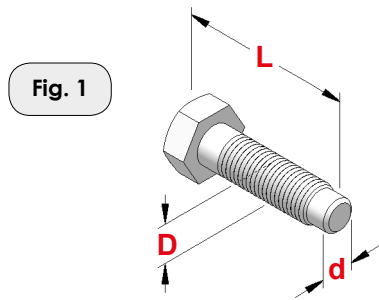
Pos.	COMPONENTI	TRAUB	TRAUB	TRAUB	TRAUB	TRAUB	SAIC	SAIC
		A.15 - 20 - 25	A.36 - 42	A.60	TB.30 - 42	TB.60	B.26 - 30	B.45
Art.	Art.	Art.	Art.	Art.	Art.	Art.	Art.	Art.
1	Leva Forcella	1837	1838	1839	1302	1307	1478	1833
2	Perno Eccentrico per Cuscinetto	1168	1715	1715	2104	2104	1168	1715
3	Dado	1169	1717	1717	1717	1717	1169	1717
4	Cuscinetto	2360	2363	2363	2524	2524	2360	2363
5	Perno per Rullo	1700	1160	1160	1683	1683	1158	2050
6	Rullo	1577	1575	1575	1684	1684	1159	2051
7	Rullini	—	—	—	0410	0410	—	—
8	Spina Fulcro Leva	1599	1433	1433	1433	1433	—	—
9	Carter Supporto Leva	2188	1860	1860	2185	2185	2216	2232
10	Porta Camme	1832	2168	2168	2176	2176	1834	—
11	Camme Contro	0636	2394	2394	1443	1443	0636	—
12	Camme Apertura	0637	2395	2395	1444	1444	0637	—
13	Camme Chiusura	0638	2396	2396	1445	1445	0638	—

PERNI PORTA CUSCINETTO PER APERTURA E CHIUSURA PINZA TRAUB
SHAFT JOURNAL FOR OPENING-CLOSING COLLET FOR TRAUB



MACCHINA	Perno <i>Pin</i>		D	d	L	Eccentrico
	Art.					
TRAUB A.15 - 20 - 25	1168		12 x 1	10	43	0,75
TRAUB A.36 - 42 - 60	1715		16 x 1	12	54	1,5
TRAUB TB.30 - 42 - 60	2104		16 x 1	10	54,5	1,5

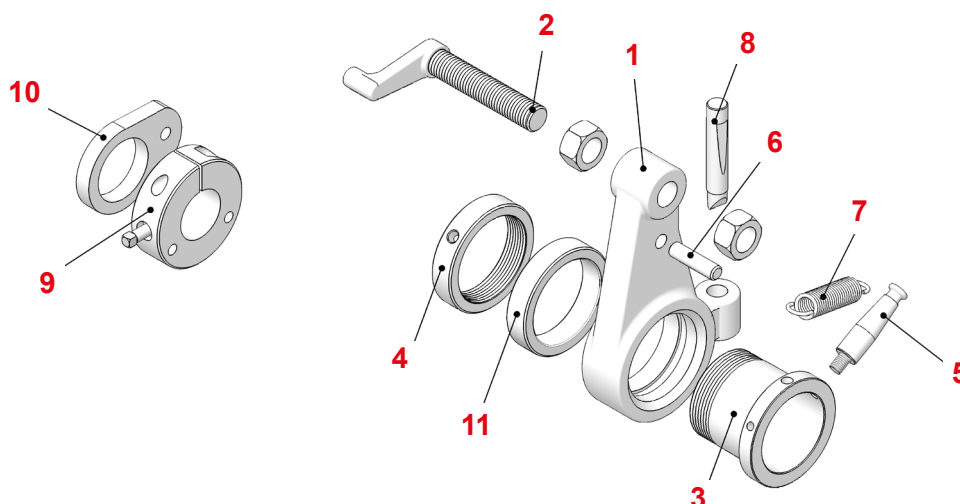
PERNI PORTA CUSCINETTO PER APERTURA E CHIUSURA PINZA INDEX
SHAFT JOURNAL FOR OPENING-CLOSING COLLET FOR INDEX



MACCHINA	Perno <i>Pin</i>		D	d	L	Fig.
	Art.					
INDEX 12 - 18 - 25	2541		10 x 1	8	33	1
	2542		10 x 1	8	41	1
INDEX C.19	2560		10 x 1	8	45	2
	2561		10 x 1	8	49	1
INDEX 24 - 36 - 52	2577		12 x 1	10	34	1
	2584		12 x 1	10	45	1
INDEX C.29	2590		10 x 1	8	40	2
	2592		10 x 1	8	44	1
INDEX B.30 - 42	2638		12 x 1	10	53	1
	2639		12 x 1	10	53	2
INDEX B.60	2663		12 x 1	10	45	1
	2664		12 x 1	10	45	2

FERMO BARRA ORIZZONTALE

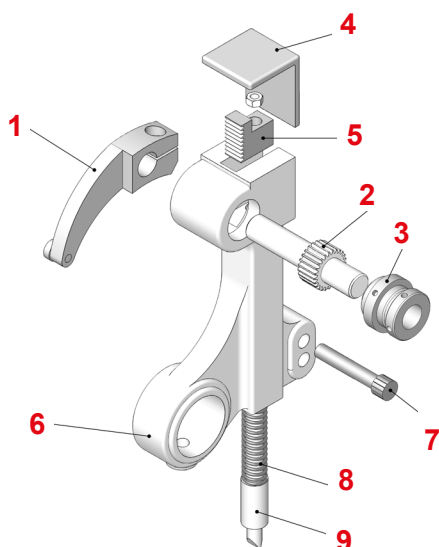
HORIZONTAL BAR STOP DEVICE



Pos.	COMPONENTI	TRAUB			TRAUB	SAIC B.26	ITS 26
		A.15 - 20 - 25			A.36 - 42 - 60	GIORGI 25	
		Leva Diritta	Leva Curva	Leva Doppia	Leva Diritta	Leva Diritta	Leva Curva
Art.	Art.	Art.	Art.	Art.	Art.	Art.	
1	Leva	1841	1844	1840	1843	1841	1844
2	Puntalino Fermo Barra	0987	0981	0987	0982	0987	0981
3	Bussola per Leva	1473	1473	1473	1474	1473	1473
4	Ghiera di Registro	1523	1523	1523	1268	1523	1523
5	Perno Lungo Tendi Molla	1155	1155	1155	1155	1155	1155
6	Perno Corto Tendi Molla	0588	0588	0588	0299	0588	0588
7	Molla di Trazione	0012	0012	0012	0027	0012	0012
8	Tastatore	1244	1244	1244	1209	1244	1244
9	Porta Camma	1430	1430	1430	1345	1430	1430
10	Camma	0516	0516	0516	0517	0516	0516
11	Anello di Battuta per Bussola	1178	1178	1178	1248	1178	1178

FERMO BARRA VERTICALE

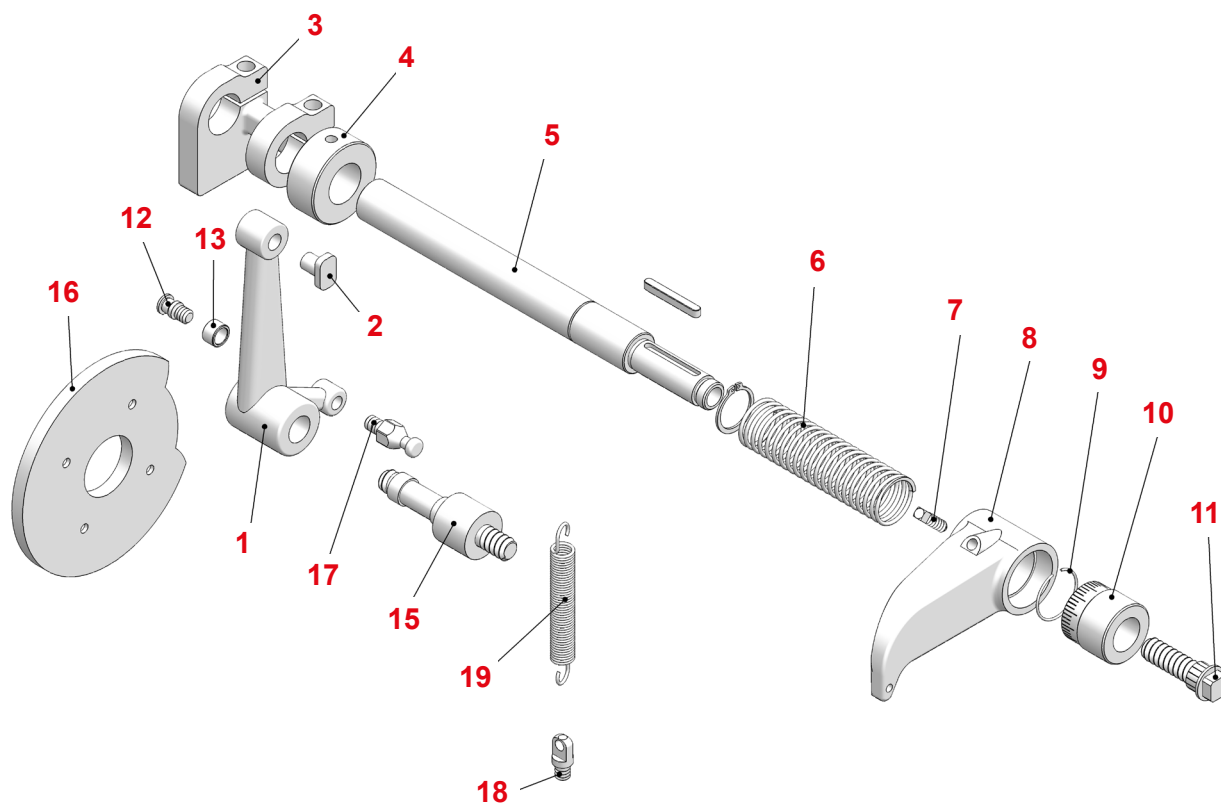
VERTICAL BAR STOP DEVICE



Pos.	COMPONENTI	TRAUB	SAIC B.26 - 30
		A.15 - 20 - 25	ITS 26 GIORGI 25
Art.	Art.	Art.	Art.
1	Puntalino Fermo Barra	4002	4002
2	Pignone	—	—
3	Ghiera di Registro	4003	4003
4	Lamierino di Protezione	—	—
5	Cremagliera	4005	4005
6	Corpo Fusione	—	—
7	Perno Fissaggio Fusione	4007	4007
8	Molla Ritorno Tastatore	0448	0448
9	Tastatore	4006	4006

FERMO BARRA VERTICALE TRAUB

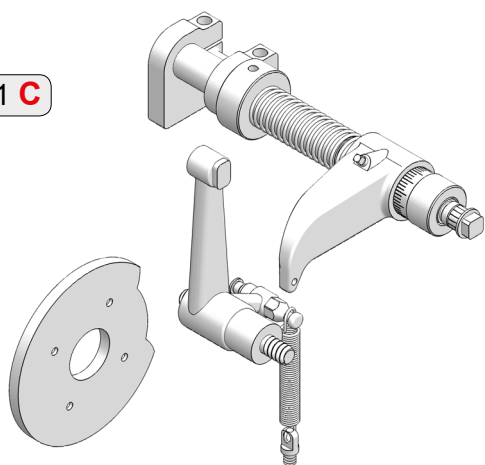
VERTICAL BAR STOP DEVICE FOR TRAUB TB



TRAUB
TB.30 - 42 - 60

Pos.	COMPONENTI	Art.
1	Leva di Comando	1949
2	Pastiglia Pattino	1950
3	Morsetto	1951
4	Anello di Battuta	2493
5	Albero	2494
6	Molla	2607
7	Vite di Bloccaggio	2148 8x30
8	Fermo Barra	2615
9	Molla a Tazza	2696
10	Nonio Graduato	2704
11	Vite di Registro	2710
12	Perno per Rullo	0483
13	Rullo per Camma	1577
14	Rullini	0478
15	Spina Fulcro Leva	2711
16	Camma	0596
17	Perno 1 per Molla	1097
18	Perno 2 per Molla	1098
19	Molla di Trazione	2655

1 C



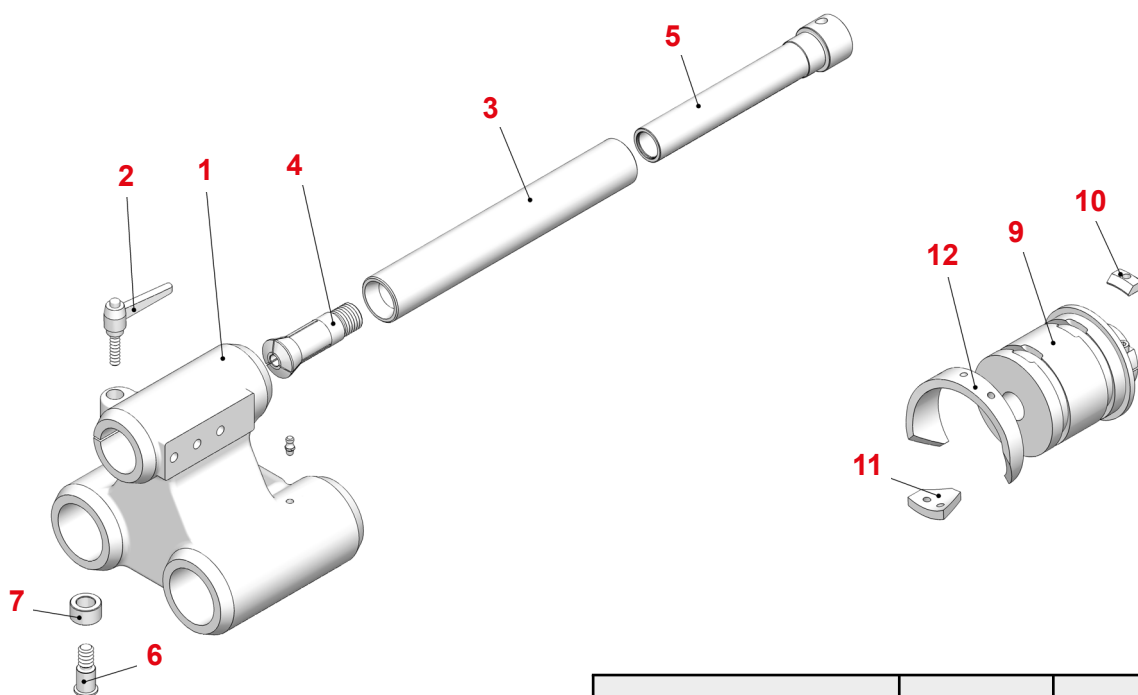
COMPLETI **C**
COMPOUNDS

TRAUB
TB.30 - 42 - 60

Pos.	COMPLETI	Art.
1 C	Completo Fermo Barra Verticale Posizioni da 1 a 19	7331

CONTROPUNTA TAILSTOCK

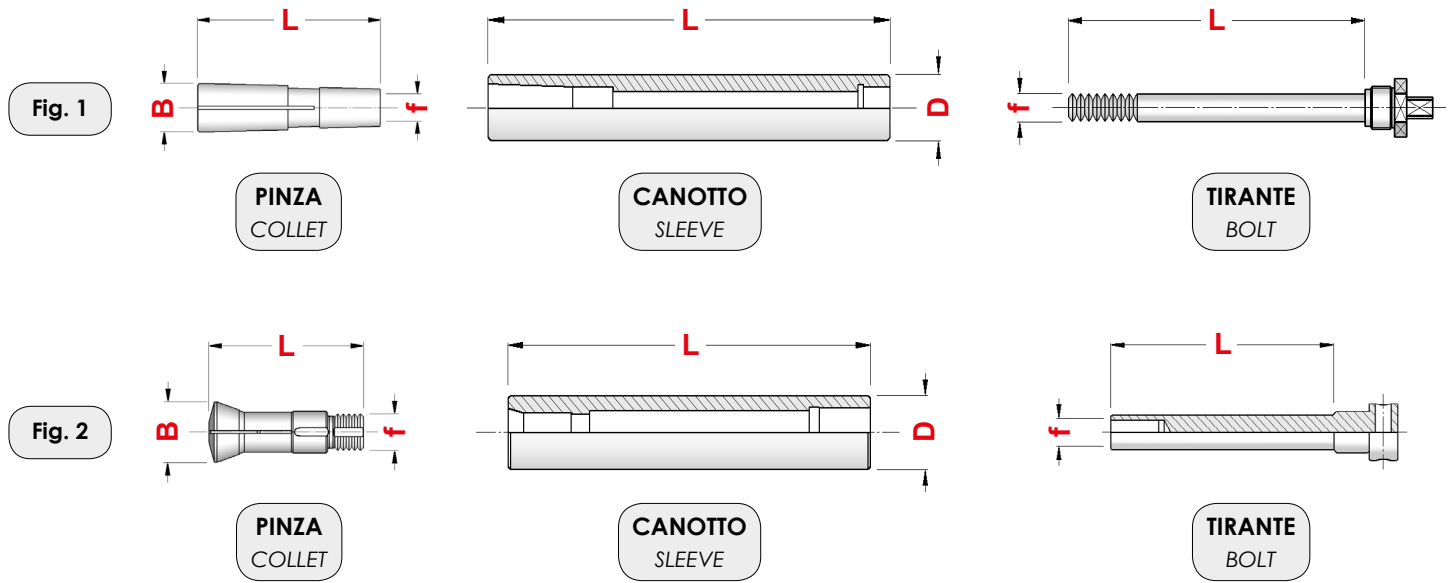
		TRAUB A.15 - 20 - 25	TRAUB A.36 - 42 - 60	TRAUB TB.30 - 42 - 60	FEINLER FA.15
Pos.	COMPONENTI	Art.	Art.	Art.	Art.
1	Contropunta con Maniglia	2150	2146	2147	2236
2	Maniglia	2257	2337	Viti / Screws	2512
3	Canotto Porta Pinza	1482	1827	1827	—
4	Pinza	0750	0751	0751	0750
5	Tirante	1077	1481	1481	—
6	Perno per Rullo	1700	1160	1683	2760
7	Rullo	1577	1575	1684	0534
8	Rullini	—	—	0410	—
9	Porta Camme	1979	2144	2164	—
10	Tassello Curvo	1147	1148	1148	—
11	Camma Ritorno	0511	0512	0512	—
12	Camma Foratura	0660	0664	0664	—



Pos.	COMPONENTI	SAIC B.26 - 30		SAIC B.45	SAIC B.50	ITS 26
		FORO d.30	FORO d.36			
Art.	Art.	Art.	Art.	Art.	Art.	Art.
1	Contropunta con Maniglia	2527	2145	—	2235	2570
2	Maniglia	2257	2257	—	Viti / Screws	2257
3	Canotto Porta Pinza	—	1892	—	—	—
4	Pinza	0752	0752	0712	0865	0752
5	Tirante	1965	1965	—	—	1965
6	Perno per Rullo	1158	1158	2050	2050	2732
7	Rullo	1159	1159	2051	2051	2734
8	Rullini	—	—	—	—	—
9	Porta Camme	2177	2177	—	—	2177
10	Tassello Curvo	2576	2576	1148	1148	2576
11	Camma Ritorno	0507	0507	0512	—	0507
12	Camma Foratura	0503	0503	0664	—	0503

CANOTTI E TIRANTI PER CONTROPUNTA

SLEEVES AND BOLTS FOR TAILSTOCK

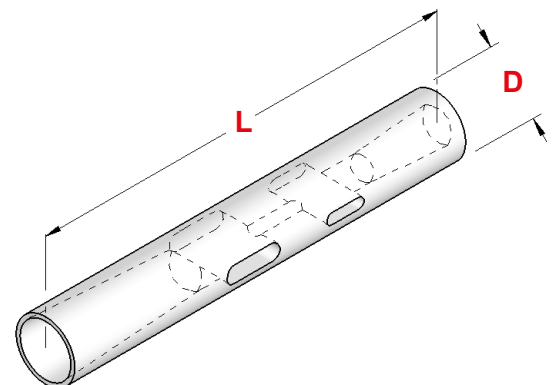


MACCHINA	Posizione	Fig.	Pinza Collet					Canotto Sleeve			Tirante Bolt		
			Art.	Einheits	f	B	L	Art.	D	L	Art.	f	L
GIORGI GM.32	Contropunta - Tailstock	1	0752	503E	M10	18	69	2861	32	190	1965	M10	125
SAIC B.26	Contropunta - Tailstock	1	0752	503E	M10	18	69	1892	36	190	1965	M10	125
	Fora Filetti - Drill Thread	1	0752	503E	M10	18	69	2035	23	250	1570	M10	184
SAIC B.45	Contropunta - Tailstock	1	0712	536E	M12	24,1	85,5	2848	42	250	1836	M12	166
TRAUB A.15 - 20 - 25	Contropunta - Tailstock	2	0750	324E	13x1	21,5	55	1482	30	178	1077	13x1	138
	Fora Filetti - Drill Thread	2	0750	324E	13x1	21,5	55	1065	30	230	1078	13x1	190
TRAUB A.36 - 42 - 60	Contropunta - Tailstock	2	0751	363E	23x1	33,5	88	1827	40	268	1481	23x1	202
TRAUB TB.42 - 60	Contropunta - Tailstock	2	0751	363E	23x1	33,5	88	1827	40	268	1481	23x1	202

CANOTTI DOPPI A CONO MORSE PER CONTROPUNTA

MORSE TAPER DOUBLE SLEEVES FOR TAILSTOCK

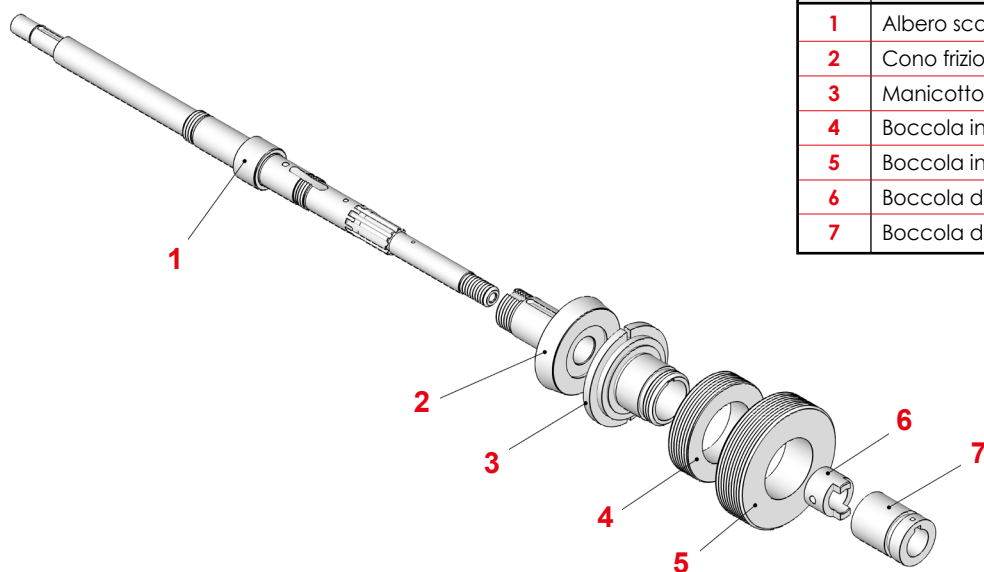
MACCHINA	TIPO	Art.	D	L
GIORGI GM.20 - 25 - 32	CM / 2 - 3	2816	32	200
SAIC B.26	CM / 2 - 3	2817	36	200
SAIC B.45	CM / 2 - 4	2844	42	270
TRAUB A.15 - 20 - 25 etc.	CM / 1 - 3	1085	30	200
	CM / 2 - 3	2798	30	200
TRAUB TD.16 - 26 - 36	CM / 1 - 3	1085	30	200
	CM / 2 - 3	2798	30	200
TRAUB A.36 - 42 - 60	CM / 2 - 4	2843	40	270
TRAUB TB.30 - 42 - 60	CM / 2 - 4	2843	40	270



GRUPPO FRIZIONE STROHM 75 - 105 - 125

CLUTCH DEVICE FOR STROHM 75 - 105 - 125

STROHM
75 - 105 - 125

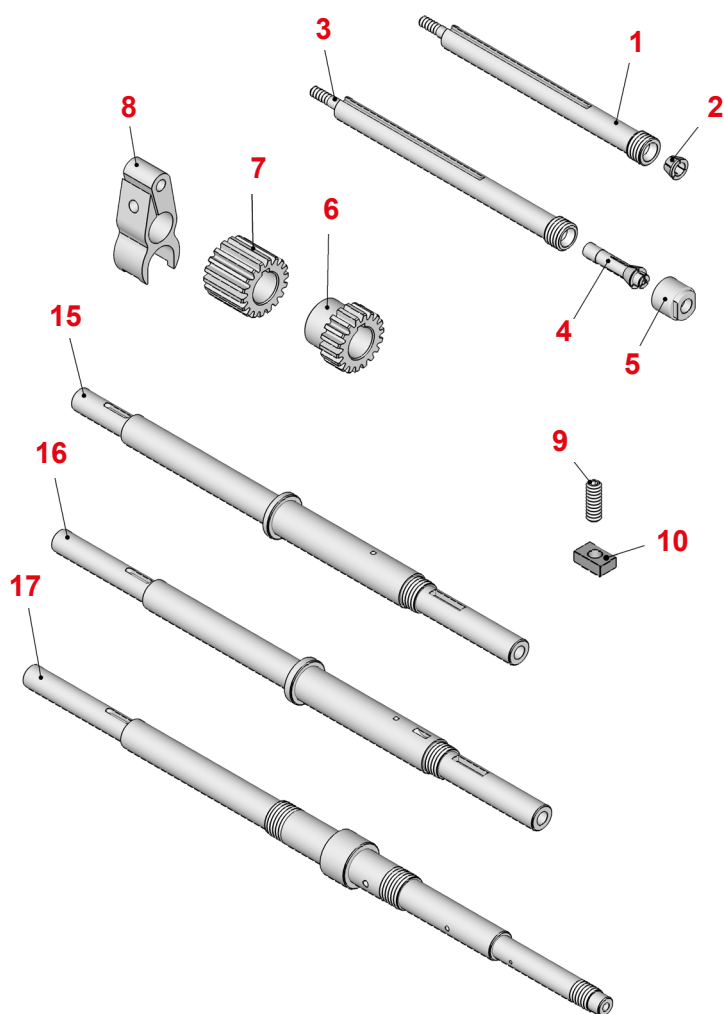


Pos.	COMPONENTI	Art.
1	Albero scanalato	2501
2	Cono frizione scanalato	2614
3	Manicotto frizione	2044
4	Boccola in tela M.65 x 1,5	0305
5	Boccola in tela M.80 x 1,5	2602
6	Boccola di trascinamento D.25	0262
7	Boccola di trascinamento D.30	0263

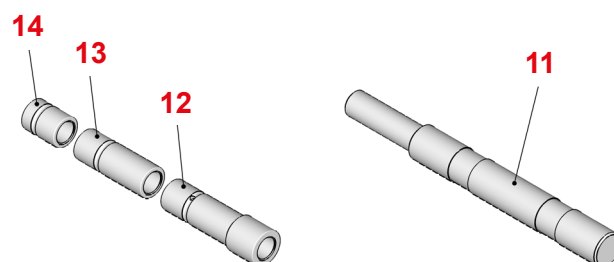
APPARECCHIO COMBINATO 3 MANDRINI STROHM 75 - 105 - 125

3 SPINDLE COMBI DEVICE FOR STROHM 75 - 105 - 125

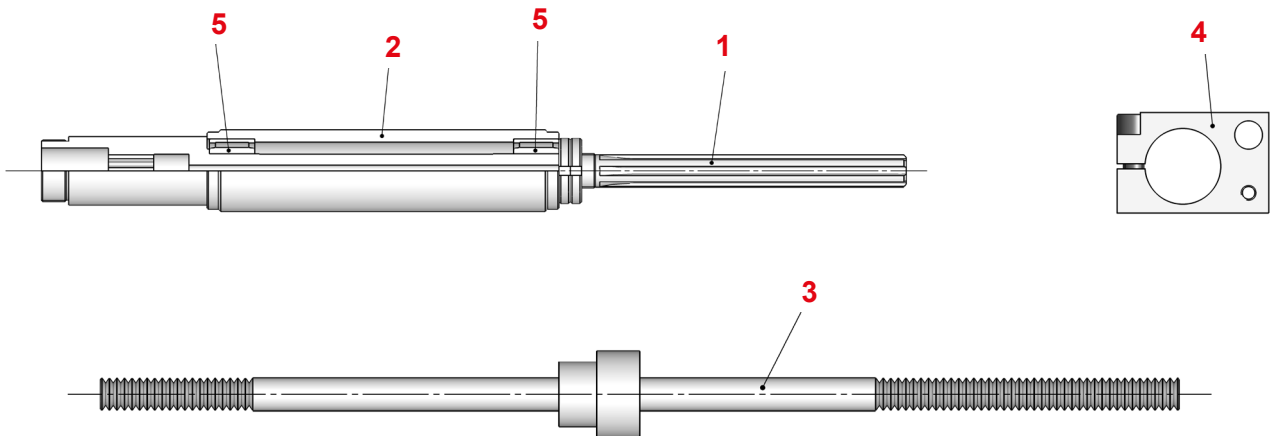
STROHM
75 - 105 - 125



Pos.	COMPONENTI	Art.
1	Mandrino a Filettare	1200
2	Cono Portafiliera D.8	0396
3	Mandrino a Forare	1201
4	Pinza	0721
5	Ghiera serraggio Pinza	0308
6	Ingranaggio Z.18 - L.10 - Foro 13	1259
7	Ingranaggio Z.18 - L.21 - Foro 13	1258
8	Forcella di Bloccaggio	1247
9	Perno per Pattino - M8 - L.23	2637
10	Pattino di Scorrimento	2636
11	Albero Eccentrico	0997
12	Bronzina D.21/18 - L.70 - Foro 13	1204
13	Bronzina D.18 - L.50 - Foro 13	1205
14	Bronzina D.18 - L.24 - Foro 13	1206
15	Albero per Puleggia L.330	2135
16	Albero per Puleggia L.362	2136
17	Albero per Puleggia L.430	2137

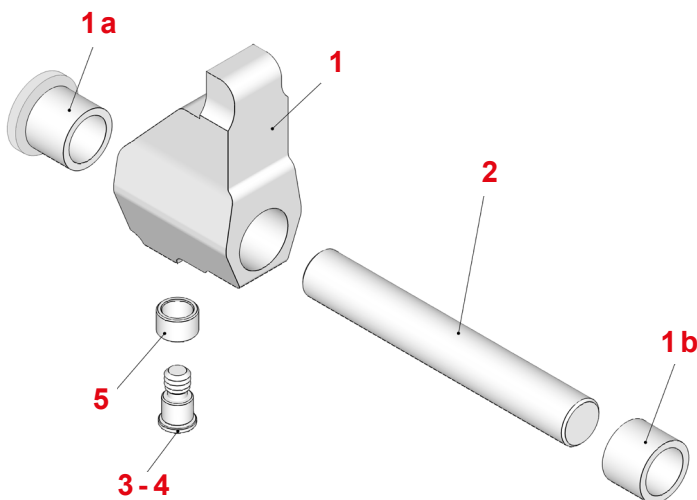


APPARECCHIO FORO-FILETTI
DRILL-THREAD DEVICE



Pos.	COMPONENTI	TRAUB	SAIC	SAIC	ITS	CASER
		A.15 - 20 - 25	B.26 - 30	A.30 - 32	26	TA.26 - 30
		Art.	Art.	Art.	Art.	Art.
1	Albero Scanalato Corto	0984	—	—	—	—
	Albero Scanalato Lungo	2084	1429	1533	—	2336
2	Canotto per Albero Corto	2782	—	—	—	—
	Canotto per Albero Lungo	2784	2329	1504	1746	—
3	Tirante per Albero Lungo	0983	0983	—	—	—
4	Morsetto Blocca Canotti	2569	—	—	—	—
5	Cuscinetti a Rullini	—	—	—	—	—

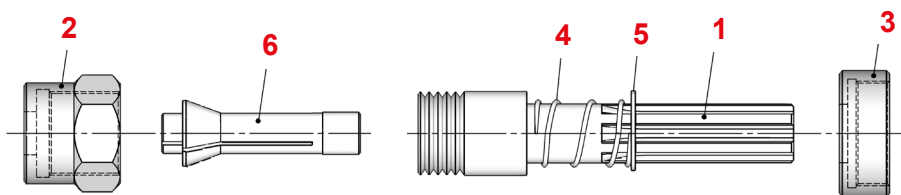
SPINTORE PER APPARECCHIO FORO-FILETTI TRAUB A.15 - 20 - 25
DRILL-THREAD DEVICE PUSHER FOR TRAUB A.15 - 20 - 25



Pos.	COMPONENTI	TRAUB
		A.15 - 20 - 25
		Art.
1	Spintore Completo di Boccole	1488
1a	Boccola Anteriore	2793
1b	Boccola Posteriore	2794
2	Albero d. 20	1974
3	Perno per Rullo Senza Rullini	1162
4	Perno per Rullo Con Rullini	0483
5	Rullo	1577
—	Rullini	0478

MANDRINI PER APPARECCHIO FORO-FILETTI TRAUB A.15 - 20 - 25

HOLDERS FOR DRILL-THREAD DEVICE FOR TRAUB A.15-20-25

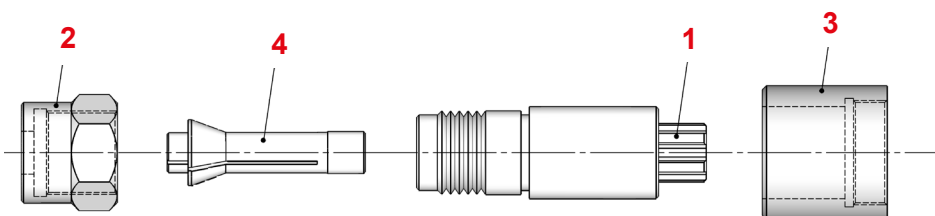


PORTA MASCHI TAP HOLDER

TRAUB
A.15 - 20 - 25

COMPLETO	Art.
Completo Mandrino Porta Maschi Posizioni da 1 a 5	7332

Pos.	COMPONENTI	Art.
1	Alberino Scanalato (con ghiera)	1184
2	Ghiera	1182
3	Anello di Fissaggio per Alberino	1081
4	Molla	1080
5	Seeger	1079
6	Pinza	0725

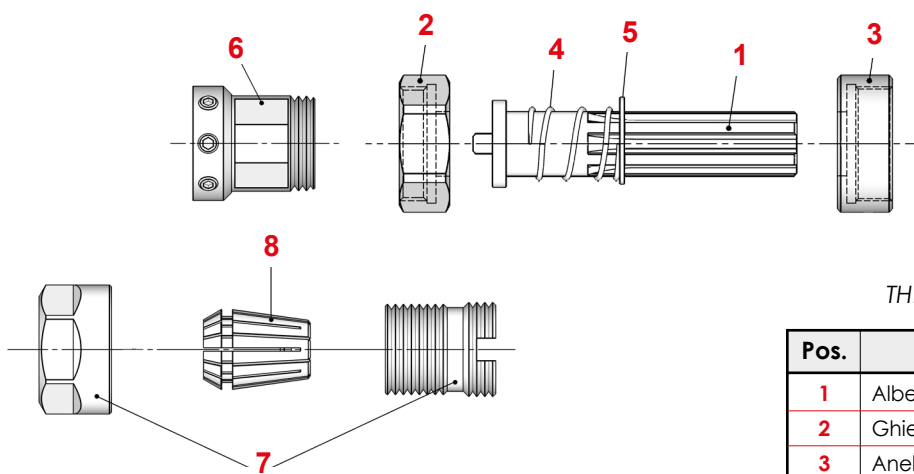


PORTA PUNTE DRILL HOLDER

TRAUB
A.15 - 20 - 25

COMPLETO	Art.
Completo Mandrino Porta Punta Posizioni da 1 a 3	7333

Pos.	COMPONENTI	Art.
1	Alberino scanalato (con ghiera)	1462
2	Ghiera	1182
3	Anello di Fissaggio per Alberino	1180
4	Pinza	0725



PORTA FILIERA THREADING DIE HOLDER

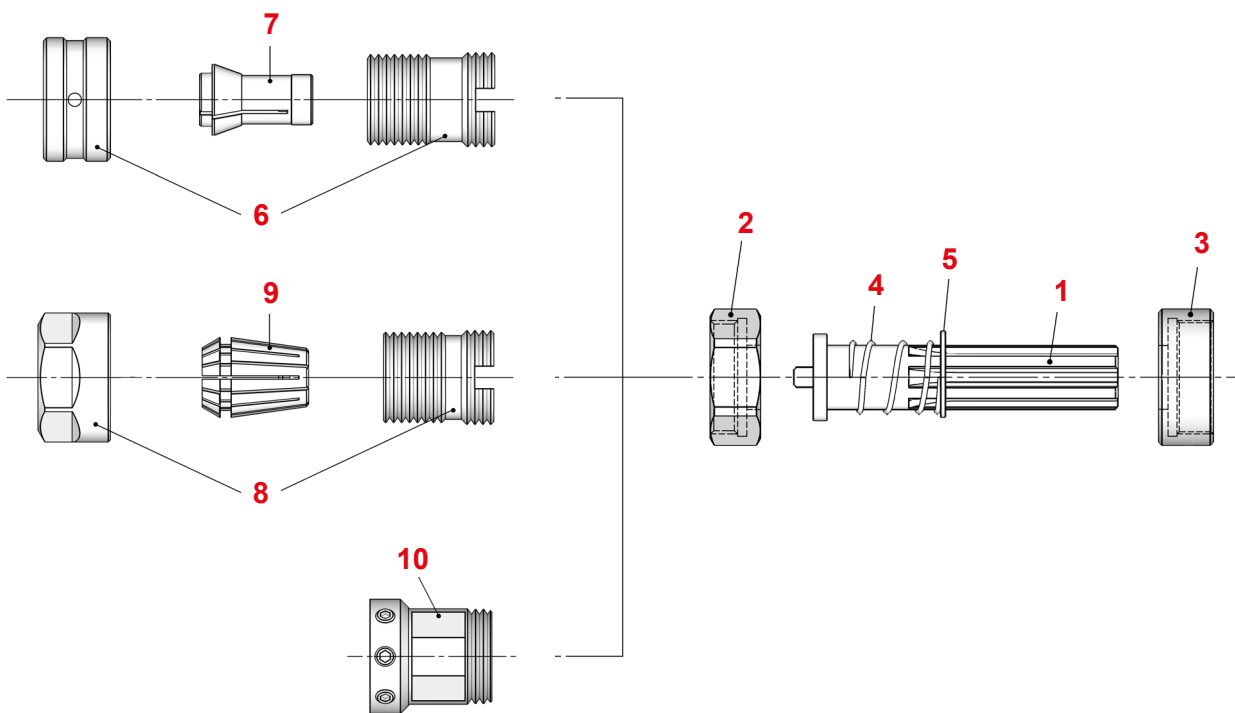
TRAUB
A.15 - 20 - 25

COMPLETO	Art.
Completo Mandrino Porta Filiera Posizioni da 1 a 5	7334

Pos.	COMPONENTI	Art.
1	Alberino Scanalato	1070
2	Ghiera	1071
3	Anello di Fissaggio per Alberino	1081
4	Molla	1080
5	Seeger	1079
6	Portafiliera - Vedi pag./See on page 273	—
7	Mandrino Portapinza ER 20 con ghiera	2633
8	Pinza ER 20	0787
	Pinza ER 20 Con Quadro	0787 MF

MANDRINO PER APPARECCHIO FORO-FILETTI SAIC E ITS

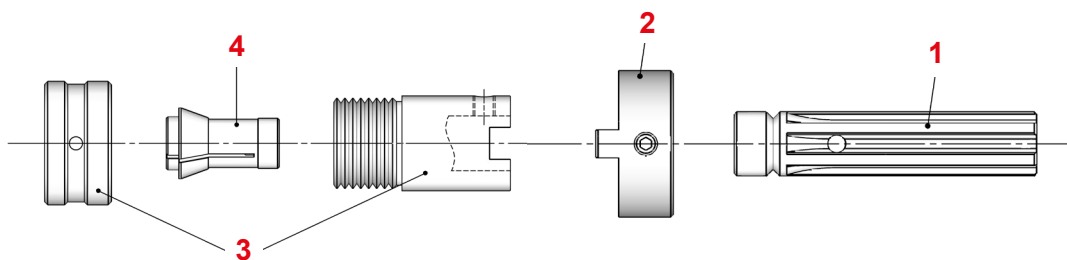
HOLDER FOR DRILL-THREAD DEVICE FOR SAIC AND ITS



COMPLETO SAIC B.26-30	Art.
Completo Mandrino Posizioni da 1 a 5	7335

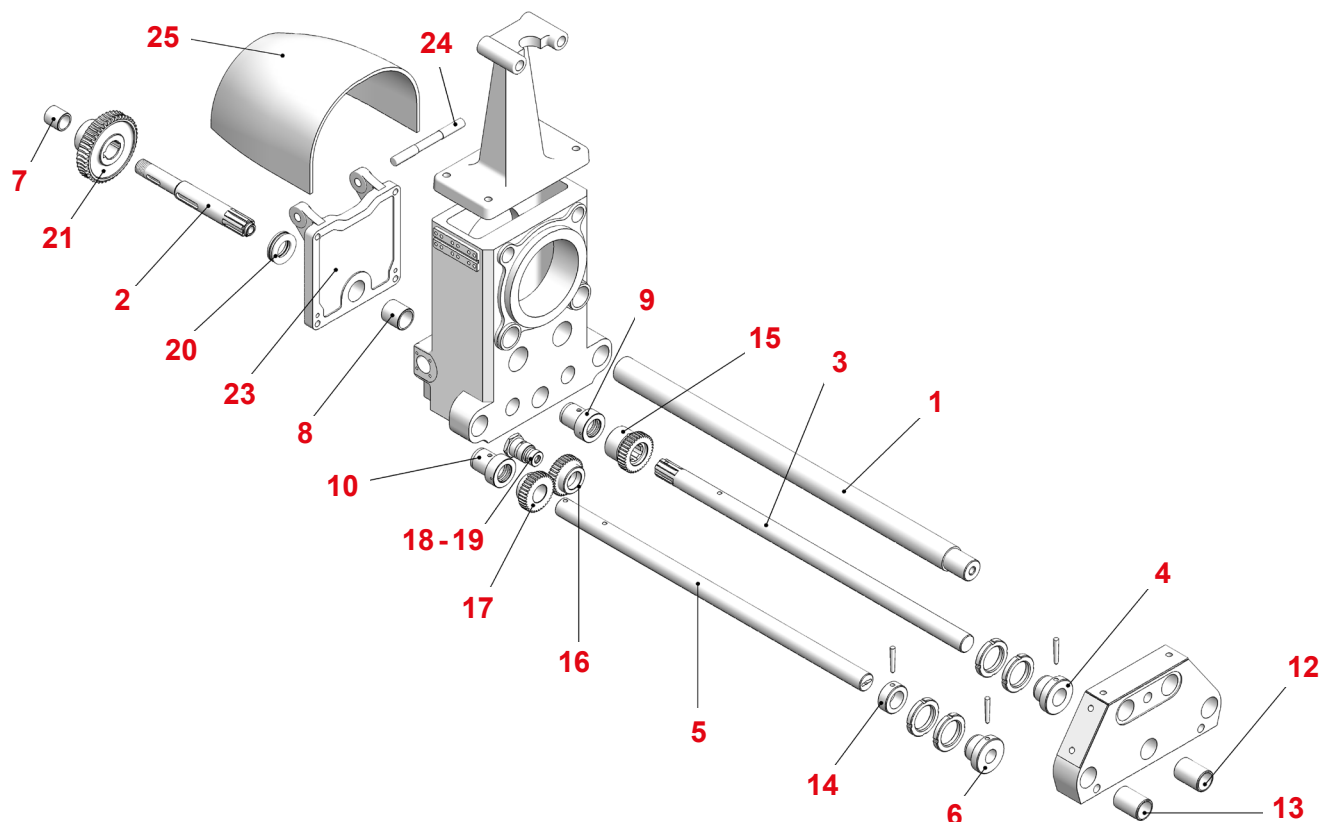
COMPLETO ITS 26	Art.
Completo Mandrino Posizioni da 1 a 5	7336

Pos.	COMPONENTI	SAIC	ITS
		B.26 - 30	26
Art.	Art.		
1	Alberino Scanalato	1070	1070
2	Ghiera	0575	0575
3	Anello di Fissaggio per Alberino	0128	0237
4	Molla	1080	1080
5	Seeger	1079	1079
6	Mandrino Portapinza con ghiera	1689	1689
7	Pinza	0749	0749
	Pinza Con Quadro	0749 Q	0749 Q
8	Mandrino Portapinza ER 20 con ghiera	2634	2634
9	Pinza ER 20	0787	0787
	Pinza ER 20 Con Quadro	0787 MF	0787 MF
10	Portafiliera - Vedi pag./See on page 273	—	—



Pos.	COMPONENTI	SAIC
		A.30 - 32
Art.	Art.	
1	Alberino Scanalato	0098
2	Anello di Fissaggio per Alberino	2791
3	Mandrino Portapinza con ghiera	2557
4	Pinza	0749
	Pinza Con Quadro	0749 Q

FANTINA - ALBERI PORTA CAMME
SLIDING HEADSTOCK - CAM SHAFT HOLDERS

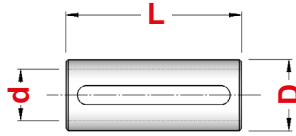


Pos.	COMPONENTE	TRAUB	TRAUB	SAIC	SAIC	ITS
		A.15 - 20 - 25	A.36 - 42 - 60	B.26 - 30	B.45	26
Art.	Art.	Art.	Art.	Art.	Art.	Art.
1	Albero di Guida Contropunta	2138	4960	—	—	—
2	Albero Centrale Porta Corona	1320	1476	1642	—	—
3	Albero Centrale Porta Camme	2132	3022	2202	—	2202
4	Boccola di Registro Completa per Albero Centrale	0162	—	0143	—	0143
5	Albero Laterale Anteriore Porta Camme	2133	3021	2201	—	2201
	Albero Laterale Posteriore Porta Camme	2133	3021	2201	—	2201
6	Boccola di Registro Completa per Albero Laterale	—	—	0198	—	0198
7	Boccola Intermedia	2575	—	—	—	—
8	Boccola di Guida per Albero Corona	1088	2725	—	2718	—
9	Boccola Anteriore per Albero Centrale Fantina	1434	1886	2769	2719	2769
10	Boccola Albero Laterale per Fantina	1434	1885	1492	1499	1492
11	Boccola Posteriore Albero Centrale Fantina	—	1887	—	—	—
12	Boccola Albero Centrale per Supporto	1435	1936	2769	—	2769
13	Boccola Albero Laterale per Supporto	1435	1935	2769	—	2769
14	Anello di Fermo per Albero Laterale	1618	—	—	—	—
15	Ingranaggio per Albero Centrale	1408	1878	1542	1910	1542
16	Ingranaggio Intermedio	1407	—	2380	1909	2380
17	Ingranaggio per Albero Laterale	1385	1550	1635	1912	1635
18	Perno per Ingranaggio Intermedio	1263	1198	0670	—	0670
19	Vite di Bloccaggio per Perno	0539	2730	—	—	—
20	Cuscinetto per Albero Corona	0435	2748	0435	—	0435
21	Corona in Bronzo	0994	0995	1976	1379	1290
23	Carter per Forcella	2188	1860	2216	2232	2228
24	Spina Fulcro Leva	1599	1433	—	—	—
25	Carter Copri Manicotto	2187	2182	—	—	—

PERNI E BOCCOLE PORTA INGRANAGGI PRODUZIONE

PINS AND SLEEVES PRODUCTION GEARS HOLDER

Boccola
Sleeve



Perno
Pin

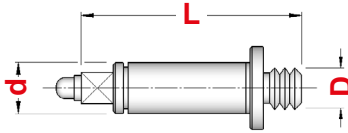


Fig. 1

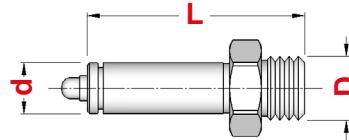


Fig. 2

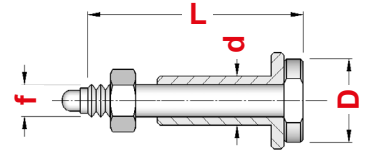


Fig. 3

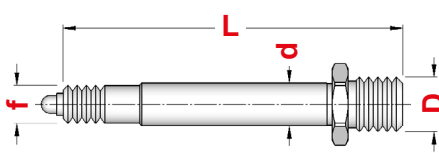


Fig. 4

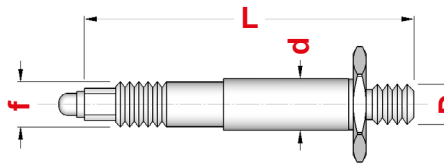


Fig. 5

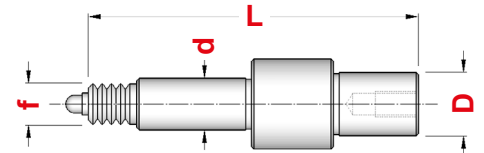


Fig. 6

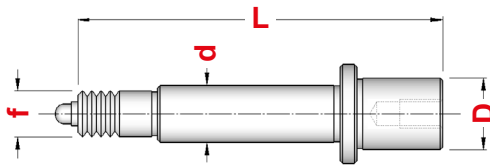


Fig. 7

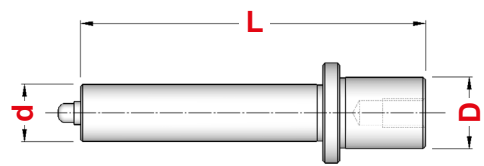


Fig. 8

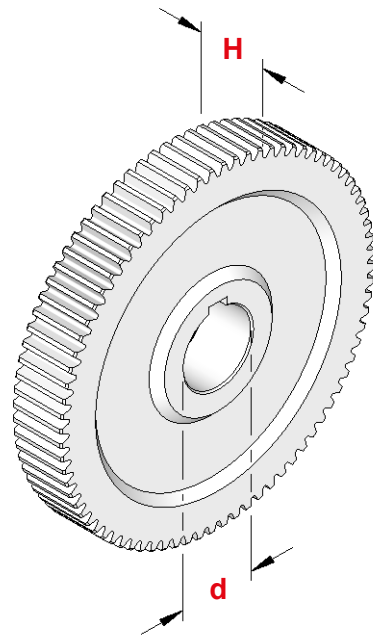
MACCHINA	Posizione	Perno Pin						Boccola Sleeve			Art.	Dimens.	Art.	
		Art.	D	d	L	f	Fig.	Art.	D	d				L
GIORGI GM. 20	Superiore - Up	1920	18x2,5	16	96	—	2	1941	23	16	35	1681	5x5x30	1124
	Centrale - Mid	1921	12x1,75	16	74	—	1	1941	23	16	35	1681	5x5x30	
	Inferiore - Low	1923	18x2,5	16	116	—	2	1942	23	16	70,5	1682	5x5x65	
SAIC B.26	Superiore - Up	1957	14x2	15	91	10x1,5	4	1938	23	15	55	0570	6x4x35	—
	Centrale - Mid	1357	26	15	68	10x1,5	3	1358	23	15	36	1674	6x4x30	—
	Inferiore - Low	1958	14x2	15	108	12x1	4	1947	23	15	75	0570	6x4x35	—
SAIC B.45	Superiore - Up	2551	20x1,5	16	140	14x1,5	4	2552	23	16	58	0571	6x4x55	—
	Centrale - Mid	2549	12x1,75	16	104	14x1,5	5	2550	23	16	41	1674	6x4x30	—
	Inferiore - Low	2547	20x1,5	16	140	14x1,5	4	2548	23	16	80	1685	6x4x60	—
TRAUB A.15 - 20 - 25	Superiore - Up	1118	20x1,5	16	68	—	2	1117	22	16	38	1674	6x4x30	1124
	Centrale - Mid	1116	12x1,75	16	69	—	1	1115	22	16	36	1674	6x4x30	
	Inferiore - Low	1120	20x1,5	16	90	—	2	1119	22	16	62	0571	6x4x55	
TRAUB A.36 - 42 - 60	Superiore - Up	1112	20x1,5	16	126	14x2	4	1111	22	16	47	0570	6x4x35	—
	Centrale - Mid	1114	12x1,75	16	99	14x2	1	1113	22	16	40	1674	6x4x30	—
	Inferiore - Low	1110	20x1,5	16	126	14x2	4	1109	22	16	71	1685	6x4x60	—
TRAUB TB.30 - 42 - 60	Superiore - Up	1597	25	20	129	16x2	7	1598	30	20	64	1686	8x7x55	—
	Centrale - Mid	1595	25	16/20	117	—	6	1596	30	20	41	0579	8x7x30	—
	Inferiore - Low	2736	25	20	130	16x2	6	1596	30	20	41	0579	8x7x30	—
	—	2738	25	20	121	—	8	1598	30	20	64	1686	8x7x55	—

INGRANAGGI PER TORNI AUTOMATICI TRAUB

GEARS FOR TRAUB AUTOMATIC LATHES

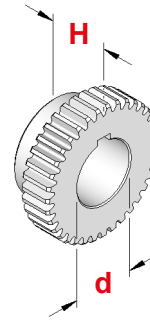
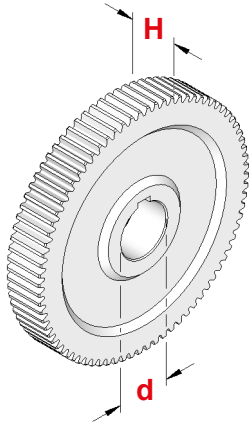
CAMBIO PRODUZIONE PRODUCTION CHANGE					
MACCHINA	Art.	Z	Modulo	d	H
TRAUB A.15-20-25	1038	25	1,25	22	16
	1054	30			
	1039	35			
	1040	40			
	1041	45			
	1042	50			
	1050	75			
	1051	80			
	1052	90			
	1053	100			
TRAUB A.36-42-60	1690	25	1,25	22	18
	1691	30			
	1692	35			
	1693	40			
	1694	45			
	1696	50			
	1568	75			
	1569	80			
	1571	90			
	1572	100			
TRAUB TB.30-42-60	2401	36	1,25	30	18
	2404	39			
	2405	43			
	2406	47			
	2407	50			
	2408	66			
	2411	83			
	2427	99			
	2428	102			
	2429	106			
	2435	110			
	2456	113			
TRAUB TD.16-26-36	2468	26	1,25	16	16
	2470	31			
	2472	33			
	2473	36			
	2475	39			
	2476	42			
	2477	48			
	2483	60			
	2484	66			
	2485	69			
	2491	72			
	2492	74			
	2496	77			
2508	82				

CAMBIO VELOCITA' MANDRINO SPINDLE SPEED CHANGE						
MACCHINA	Art.	Z	Modulo	d	H	
TRAUB TD.16-26-36	2317	58	1,5	25 > 5° 30'	16	
	2325	63				
	2327	67				
	2330	72				
	2335	76				
	2361	80				
	TRAUB TD.16-26-36	2362	84	1,5	25 > 5° 30'	18
		2525	27			
		2526	31			
		2528	35			
		2532	39			
		2533	44			
TRAUB TD.16-26-36	2534	48	1,5	25 > 5° 30'	18	
	2535	53				



INGRANAGGI PER TORNI AUTOMATICI INDEX

GEARS FOR INDEX AUTOMATIC LATHES

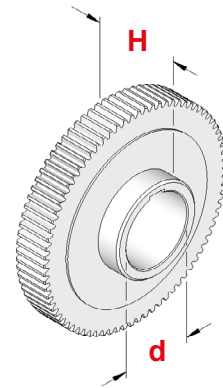


CAMBIO PRODUZIONE
PRODUCTION CHANGE

MACCHINA	Art.	Z	Modulo	d	H
INDEX 12-18-25	2299	20	1,5	22	18
	2340	24			
	2341	25			
	1507	27			
	2342	30			
	2300	35			
	1556	36			
	2274	40			
	1354	50			
	1535	55			
	2324	60			
	1538	65			
	2348	70			
	2338	75			
	1532	85			
1703	90				
1546	100				
INDEX 24 INDEX 36-42 INDEX 52-60	2267	20	2	25	22
	2268	24			
	2269	25			
	2344	27			
	2270	30			
	2271	35			
	2272	40			
	2273	45			
	2349	50			
	5604	60			
	2350	65			
	1799	70			
	1768	75			
	1764	80			

CAMBIO VELOCITA' MANDRINO
SPINDLE SPEED CHANGE

MACCHINA	Art.	Z	Modulo	d	H
INDEX 24 INDEX 36-42 INDEX 52-60	2465	26	3	40 > 6°	62
	2463	28		62	103
	2467	37		58	54
	2461	47		58	90
	1855	56		58	43
	1929	46		4	68
2516	50	38	70		



IN TELA PER FILETTATORE
FOR THREADING DEVICE

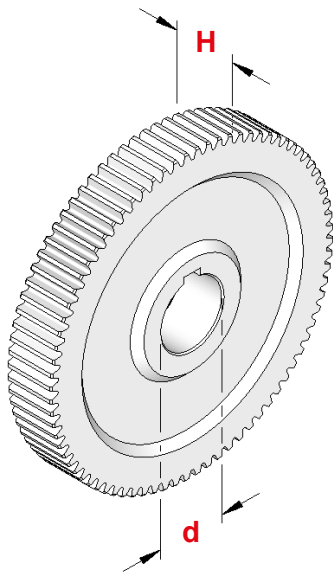
MACCHINA	Art.	Z	Modulo	d	H
INDEX 25-ER.25	1940	31	4	33 > 6°	32
	2691	48	2	30	30
	2720	60	2	30	30
	2693	64	2	30	30
	INDEX B.30-42-60	2688	45	2	20
2689		47	2	20	51
2690		47	2	34	25
2691		48	2	30	30
2692		56	2	34	25
2694		60	2	34	34
2693		64	2	30	30

INGRANAGGI CAMBIO PRODUZIONE PER ALTRI TORNI AUTOMATICI

GEARS FOR OTHER AUTOMATIC LATHES

CAMBIO PRODUZIONE PRODUCTION CHANGE

MACCHINA	Art.	Z	Modulo	d	H
ITS 26	1038	25	1,25	22	16
	1054	30			
	1039	35			
	1040	40			
	1041	45			
	1042	50			
	1050	75			
	1051	80			
	1052	90			
	1053	100			

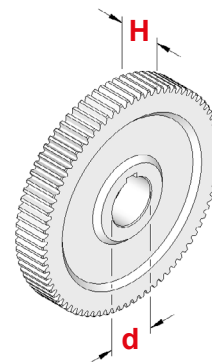


CAMBIO PRODUZIONE PRODUCTION CHANGE

MACCHINA	Art.	Z	Modulo	d	H
STROHM 75-105-125	2354	25	1	14	14
	2355	35			
	2356	42			
	2358	50			
	2359	52			
	1389	56			
	1390	58			
	1391	65			
	1392	67			
	1393	70			
	1394	76			
	1395	79			
	1396	83			
	1397	92			
	1409	93			
	1398	95			
	1399	96			
	1400	99			
	1401	105			
	1402	110			
1403	117				
1404	125				
1405	133				
1455	175				
STROHM 205-255	1412	20	1,5	20	16
	1413	34			
	1414	52			
	1417	56			
	1418	61			
	3077	106			

CAMBIO PRODUZIONE PRODUCTION CHANGE

MACCHINA	Art.	Z	Modulo	d	H
SAIC B.26-30 GIORGI GM.25-30-42	0526	25	1,25	23	16
	0465	30			
	0466	35			
	0467	40			
	0468	45			
	2128	50			
	2129	75			
	2130	80			
	2131	90			
	1934	100			



FLANGE E CORONE PER CATENA

FLANGE AND CHAIN GEARS

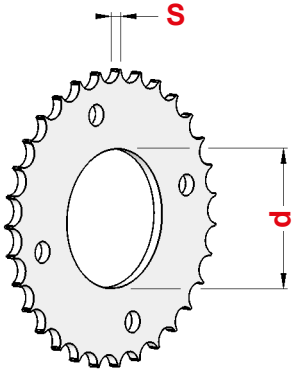


Fig. 1

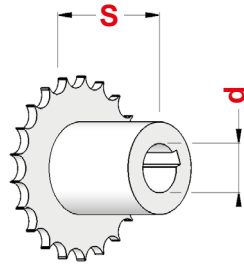


Fig. 2

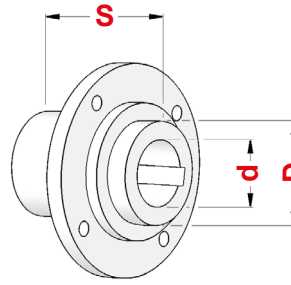


Fig. 3

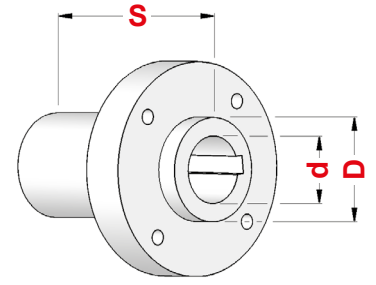
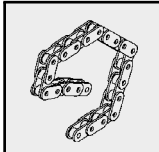

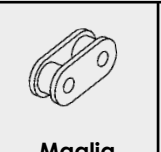

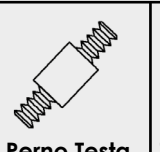
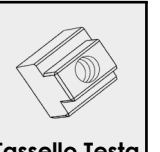


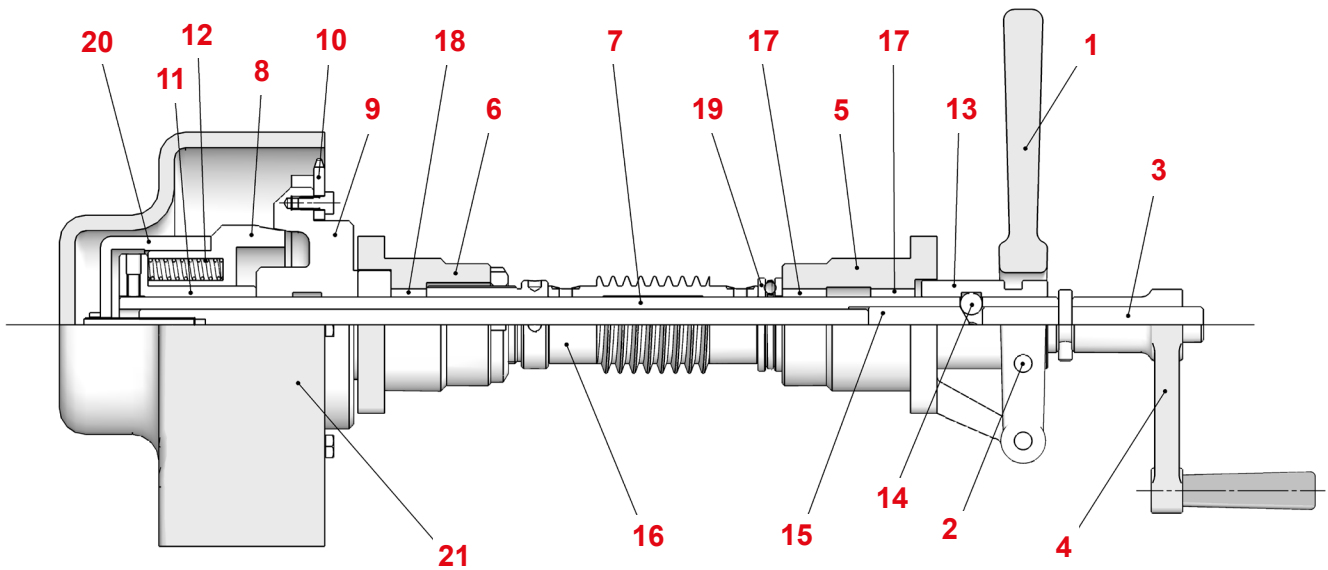
Fig. 4

MACCHINA	Posizione - Position	CORONE PER CATENA CHAIN GEARS					FLANGE FLANGE				
		Art.	Z	d	S	Figura	Art.	D	d	S	Figura
SAIC B.26 - 30	Tendi Catena - Chain Tightener	1648	Z 17	14	28	2	—	—	—	—	—
	Pompa Acqua - Water Pump	1649	Z 17	14	35	2	—	—	—	—	—
	Motore - Engine	2365	Z 17	14	43	2	—	—	—	—	—
	Trasmissione - Drive	1264	Z 27	33	3,5	1	1651	33	23	39	3
	Trasmissione - Drive	2364	Z 27	37	3,5	1	1652	37	23	59	4
	Frizione - Clutch	1299	Z 45	75	3,5	1	1329	—	—	—	—
SAIC B.45	Trasmissione - Drive	1756	Z 64	37	3,5	1	1652	37	23	59	4
	Motore - Engine	1819	Z 17	22	67	2	—	—	—	—	—
	Tendi Catena - Chain Tightener	1818	Z 27	35	5,5	1	—	—	—	—	—
	Frizione - Clutch	1758	Z 45	98	5,5	1	—	—	—	—	—
TRAUB A.15 - 20 - 25	Trasmissione - Drive	1761	Z 64	150	5,5	1	—	—	—	—	—
	Pompa Acqua - Water Pump	0652	Z 17	12	22	2	—	—	—	—	—
	Motore - Engine	1186	Z 17	20	3,5	1	1993	20	14	43	—
	Trasmissione - Drive	1187	Z 27	45	3,5	1	2217	45	22	29	3
	Tendi Catena - Chain Tightener	1187	Z 27	45	3,5	1	2388	45	16	22	3
TRAUB A.36 - 42 - 60	Frizione - Clutch	1299	Z 45	75	3,5	1	1329	—	—	—	—
	Trasmissione - Drive	1300	Z 65	150	3,5	1	2218	150	22	48	3
	Motore - Engine	1971	Z 17	20	5,5	1	—	—	—	—	—
	Trasmissione - Drive	2386	Z 27	45	5,5	1	2217	45	22	29	3
TRAUB A.36 - 42	Tendi Catena - Chain Tightener	2386	Z 27	45	5,5	1	2388	45	16	22	3
	Trasmissione - Drive	1497	Z 65	150	5,5	1	2075	150	22	55	3
TRAUB A.60	Frizione - Clutch	1602	Z 45	75	5,5	1	—	—	—	—	—
TRAUB TB.30 - 42 - 60	Frizione - Clutch	2387	Z 45	95	5,5	1	2455	—	—	—	—
TRAUB TB.30 - 42 - 60	Trasmissione - Drive	2787	Z 21	30	23	2	—	—	—	—	—

MACCHINA	1 mt Catena	Dimensione	     				
			Giunto Catena	Maglia Falsa	Testa di Cavallo	Perno Testa di Cavallo	Tassello Testa di Cavallo
SAIC B.26 - 30	1876	3/8" x 5/32"	1623	0113	—	—	—
TRAUB A.15 - 20 - 25	1876	3/8" x 5/32"	1623	0113	0117	0102	1150
TRAUB A.36 - 42 - 60	1888	3/8" x 7/32"	0112	1626	1629	0102	1150

GRUPPO FRIZIONE TRAUB E SAIC

CLUTCH DEVICE FOR TRAUB AND SAIC



		TRAUB A.15 - 20 - 25	TRAUB A.36 - 42 - 60	SAIC B.26 - 30
Pos.	COMPONENTI	Art.	Art.	Art.
1	Leva di innesto	1313	1314	—
2	Pastiglia di Innesto	0583	0387	—
3	Spina di Innesto	0139	—	—
4	Manovella	1846	1847	—
	Manovella con arresto	2056	—	—
5	Supporto Anteriore per Albero	2238	—	—
6	Supporto Posteriore per Albero	2239	—	—
7	Albero	1315	1328	1023
8	Cono di Accoppiamento	1319	2457	1319
9	Disco di Accoppiamento	1329	2455	1329
10	Corona Dentata Z.45 (Foro d. 75)	1299	—	1299
	Corona Dentata Z.45 (Foro d. 95)	—	2387	—
11	Bussola per Molle	1638	0606	—
12	Molle	0032	0419	0032
13	Bussola Scorrevole per Sfere	1586	2398	—
14	Sfere	d. 8	d. 10	—
15	Perno di Spinta Sfere	0300	—	—
16	Vite Senza Fine	1436	1437	2101
17	Cuscinetto a Rullini Anteriore	0343	0428	—
18	Cuscinetto a Rullini Posteriore	0344	0429	—
19	Cuscinetto a Sfere	0345	0435	0345
20	Calotta di Chiusura	0332	1220	0332
21	Carter	2186	—	—

VITI SENZA FINE E CORONE IN BRONZO PER FRIZIONE

WORMS AND WORM WHEELS FOR CLUTCH

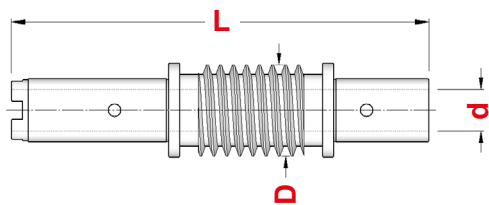


Fig. 1

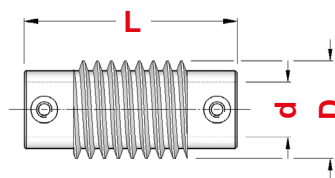


Fig. 2

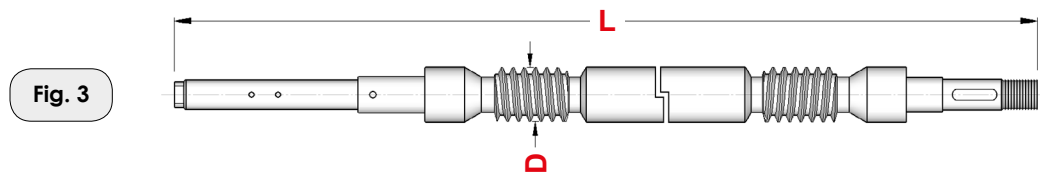


Fig. 3

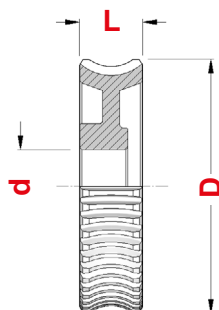


Fig. 4

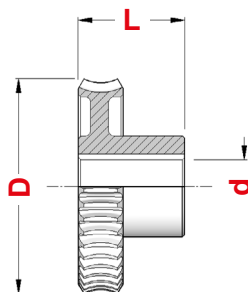


Fig. 5

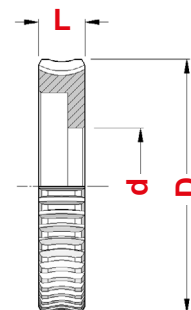
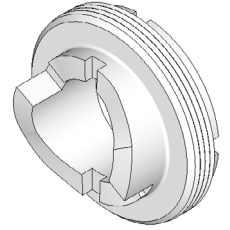
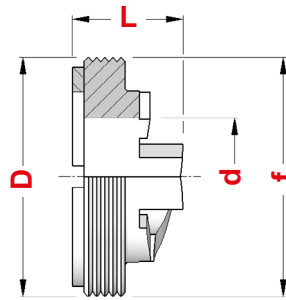


Fig. 6

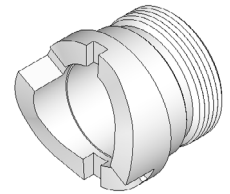
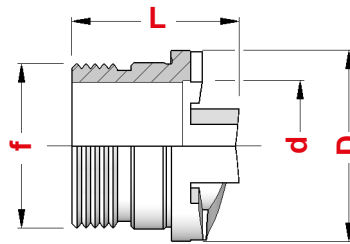
MACCHINA	VITI SENZA FINE WORMS						CORONE IN BRONZO WORM WHEELS					
	Art.	d	D	L	Elica	Fig.	Art.	d	D	L	Elica	Fig.
CASER TA.26 - 30	2207	—	39	485	DX	1	—	—	—	—	—	—
CASER TA.45 - 50	—	—	—	—	—	—	1489	40	98	40	DX	4
FEINLER 15	0631	15	34	40	DX	2	—	—	—	—	—	—
GIORGI GM.25 - 30 - 32	2659	20	40	71	DX	2	—	—	—	—	—	—
ITS 26	2101	20	40	60	DX	2	1290	20	97	34	DX	5
ITS 26	2103	20	40	60	DX	2	2083	40	98,5	20	DX	6
SAIC B.26	2101	20	40	60	DX	2	1290	20	97	34	DX	5
SAIC B.26 - 30	2101	20	40	60	DX	2	1976	25	97	46	DX	5
SAIC A.30	2503	—	40	355	DX	1	—	—	—	—	—	—
SAIC B.45	1380	25	42	110	DX	2	1379	35	122	35	DX	5
STROHM 75 - 105 - 125	1438	16	38	200	DX	1	0992	22	96	35	DX	5
STROHM 205 - 255	1439	18	42,5	252	DX	1	0993	28	133	52	DX	5
TORNOS M.7	—	—	—	—	—	—	2119	22	97	44	DX	5
TORNOS R.10	1978	14	34	180	DX	1	2120	22	97	38	DX	5
TRAUB A.15 - 20 - 25	1436	20	40	60	DX	2	0994	25	96	48	DX	5
TRAUB TD.16 - 26 - 36	2206	—	30	584	DX - SX	3	1558	56	114	22	DX	6
							1557	56	114	22	SX	6
TRAUB A.36 - 42 - 60	1437	25	43,8	95	DX	2	0995	35	122	30	DX	4
TRAUB TB.30 - 42 - 60	1437	25	43,8	95	DX	2	2331	35	122	52	DX	5
TRAUB TB.30 - 42 - 60	1713	25	43,8	95	SX	2	1326	35	122	52	SX	5

ARTIGLI PER VITE SENZA FINE STROHM 75 - 105 - 125
 WORMS CLUTCH FOR STROHM 75-105-125

MACCHINA	Art.	d	D	L	f
STROHM 75 - 105 - 125	1253	16	34	15	34 x 1,5



MACCHINA	Art.	d	D	L	f
STROHM 75 - 105 - 125	1254	16	24,5	21	21 x 1



INGRANAGGI PER CAMBIO AVANZAMENTI STROHM
 FEED CHANGER GEARS FOR STROHM

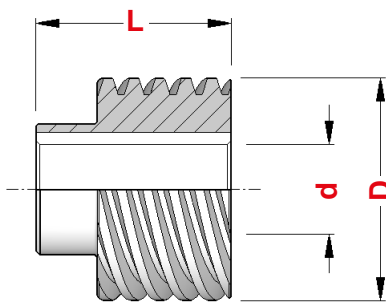


Fig. 1

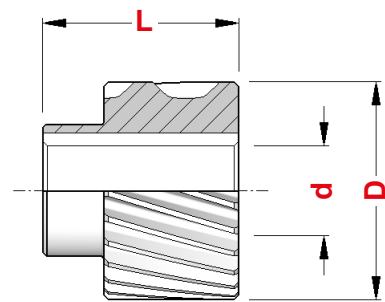


Fig. 2

MACCHINA	VITI SENZA FINE WORMS						CORONE IN BRONZO WORM WHEELS					
	Art.	d	D	L	Elica	Fig.	Art.	d	D	L	Elica	Fig.
STROHM 75 - 105 - 125	1865	25	60	52	DX	1	1866	25	58	52	DX	2
STROHM 205 - 255	0628	25	73	53	DX	1	0634	25	71,5	53	DX	2

TASSELLI PER SCATTO TORRETTA INDEX

DOWELS FOR INDEX TURRET RELEASE



MACCHINA	TIPO	Art.	D	S	Figura	
INDEX 12 - 18 - 25	DESTRO - RIGHT	2410	6,5	8	2	0095
	SINISTRO - LEFT	2409	6,5	8	1	
INDEX C.19 - 29	DESTRO - RIGHT	0519	6,5	8	2	
	SINISTRO - LEFT	0518	6,5	8	1	
INDEX 24 - 36 - 52	DESTRO - RIGHT	2277	8,2	10	4	0274
	SINISTRO - LEFT	2276	8,2	10	3	
INDEX 36 - 42 - 52	DESTRO - RIGHT	2279	8,2	10	2	
	SINISTRO - LEFT	2278	8,2	10	1	
	OSCILLANTE - SWINGING	2280	10,0	—	5	

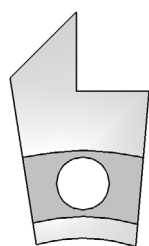


Fig. 1
Sinistro
Left hand

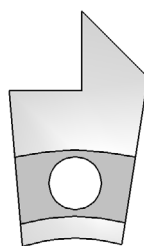


Fig. 2
Destro
Right hand

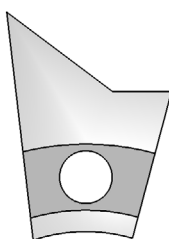
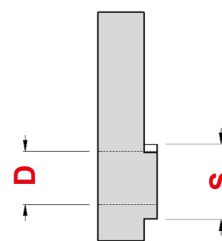


Fig. 3
Sinistro
Left hand

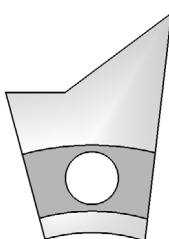


Fig. 4
Destro
Right hand

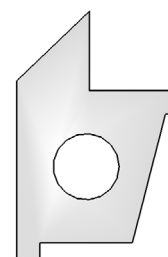
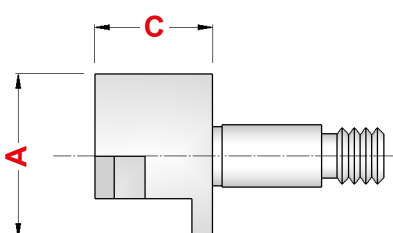
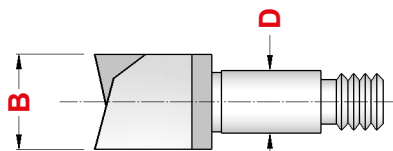


Fig. 5
Oscillante
Swinging

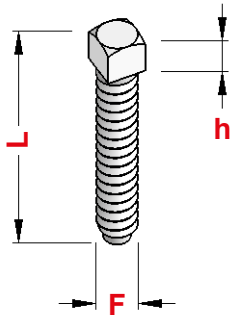
SELETTORI PER SCATTO TORRETTA INDEX

SELECTORS FOR INDEX TURRET RELEASE



MACCHINA	TIPO	Art.	D	A	B	C
INDEX 12 - 18 - 25	3/6 SCATTI - 3/6 SPRINGS	0270	8	21	12	15
INDEX C.19 - 29	3/6 SCATTI - 3/6 SPRINGS	2678	10	18	14	18
INDEX 36 - 52	3/6 SCATTI - 3/6 SPRINGS	2677	10	24	14	18
INDEX B.30 - 42 - 60	3/6 SCATTI - 3/6 SPRINGS	2678	10	18	14	18

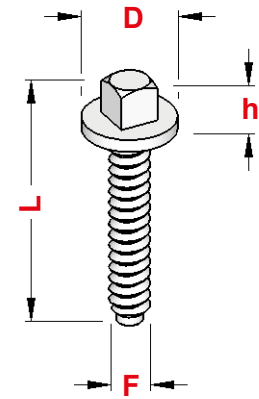
VITI A TESTA QUADRA
SQUARE HEADED SCREWS



SENZA COLLARE
WITHOUT COLLAR

Art.	F	L	h
2148 - 5x15	M 5	15	5
2148 - 5x40	M 5	40	5
2148 - 6x15	M 6	15	6
2148 - 6x20	M 6	20	6
2148 - 6x30	M 6	30	6
2148 - 6x42	M 6	42	6
2148 - 6x50	M 6	50	6
2148 - 6x90	M 6	90	6
2148 - 7x15	M 7	15	6
2148 - 7x20	M 7	20	6
2148 - 7x32	M 7	32	6
2148 - 7x40	M 7	40	6
2148 - 7x50	M 7	50	6
2148 - 7x60	M 7	60	6
2148 - 7x76	M 7	76	6
2148 - 8x20	M 8	20	6
2148 - 8x30	M 8	30	6
2148 - 8x40	M 8	40	6
2148 - 8x50	M 8	50	6
2148 - 8x60	M 8	60	6
2148 - 8x70	M 8	70	6
2148 - 8x80	M 8	80	6
2148 - 10x30	M 10	30	6
2148 - 10x38	M 10	38	6
2148 - 10x48	M 10	48	6
2148 - 10x58	M 10	58	6

2016 - 8x1x20	M 8x1	20	6
2016 - 8x1x25	M 8x1	25	6
2016 - 8x1x30	M 8x1	30	6
2016 - 8x1x35	M 8x1	35	6

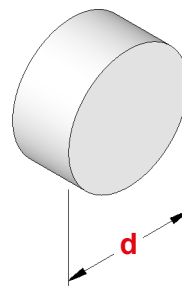


CON COLLARE
WITH COLLAR

Art.	F	L	D	h
2149 - 6x20	M 6	20	10	9
2149 - 6x30	M 6	30	10	9
2149 - 6x40	M 6	40	10	9
2149 - 7x20	M 7	20	12	9
2149 - 7x30	M 7	30	12	9
2149 - 7x40	M 7	40	12	9
2149 - 7x50	M 7	50	12	9
2149 - 8x20	M 8	20	12	10
2149 - 8x28	M 8	28	12	10
2149 - 8x50	M 8	50	12	10
2149 - 10x30	M 10	30	15	10

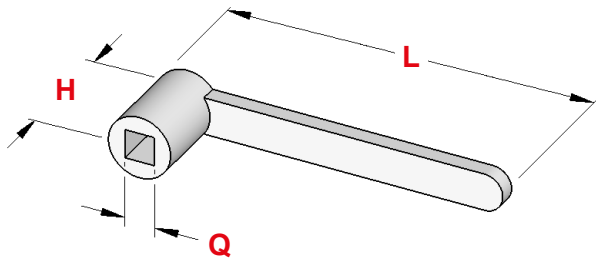
2082 - 6x15	M 6	15	14	6
2082 - 6x20	M 6	20	14	6

PASTIGLIE IN OTTONE
BRASS TABLETS



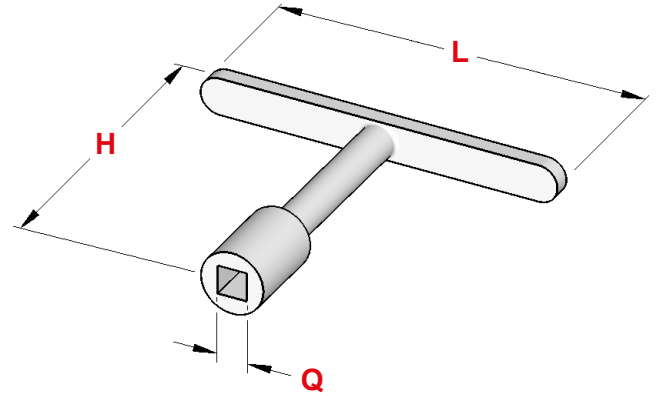
Art.	d	Filetto
0123	5	M 6
1980	6	M 7
1981	6,5	M 8
1982	8,5	M 10

CHIAVE A "PIPA"
"PIPE" TYPE WRENCH



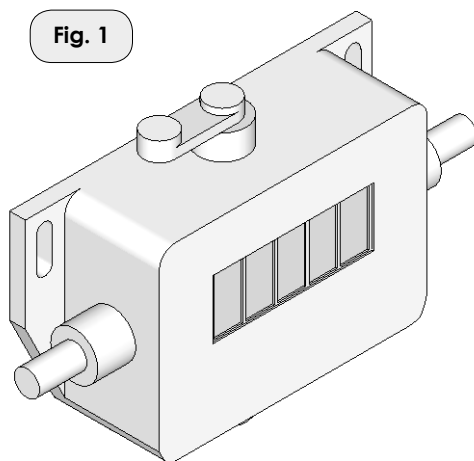
Art.	Q	H	L
1901	6	22	73
1902	8	22	83

CHIAVE A "T"
"T" TYPE WRENCH



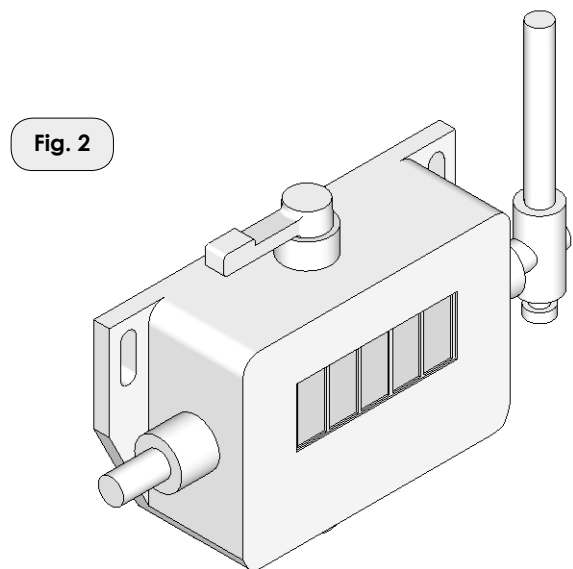
Art.	Q	H	L
1903	6	80	73
1904	8	85	83

CONTAGIRI
REVOLUTIONS COUNTERS



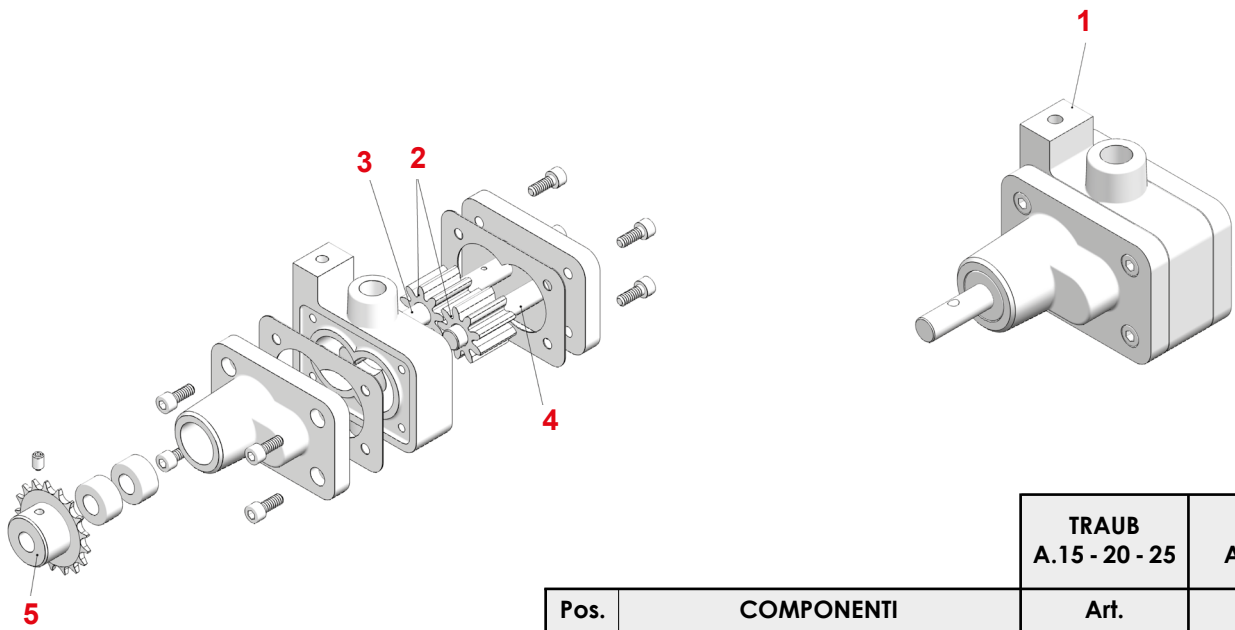
CONTAGIRI TIPO	Art.	Figura	Cifre
CONTAGIRI DESTRO <i>Right Revolutions Counter</i>	1166	1	5
CONTAGIRI SINISTRO <i>Left Revolutions Counter</i>	1167	1	5

CONTACOLPI
STROKES COUNTERS



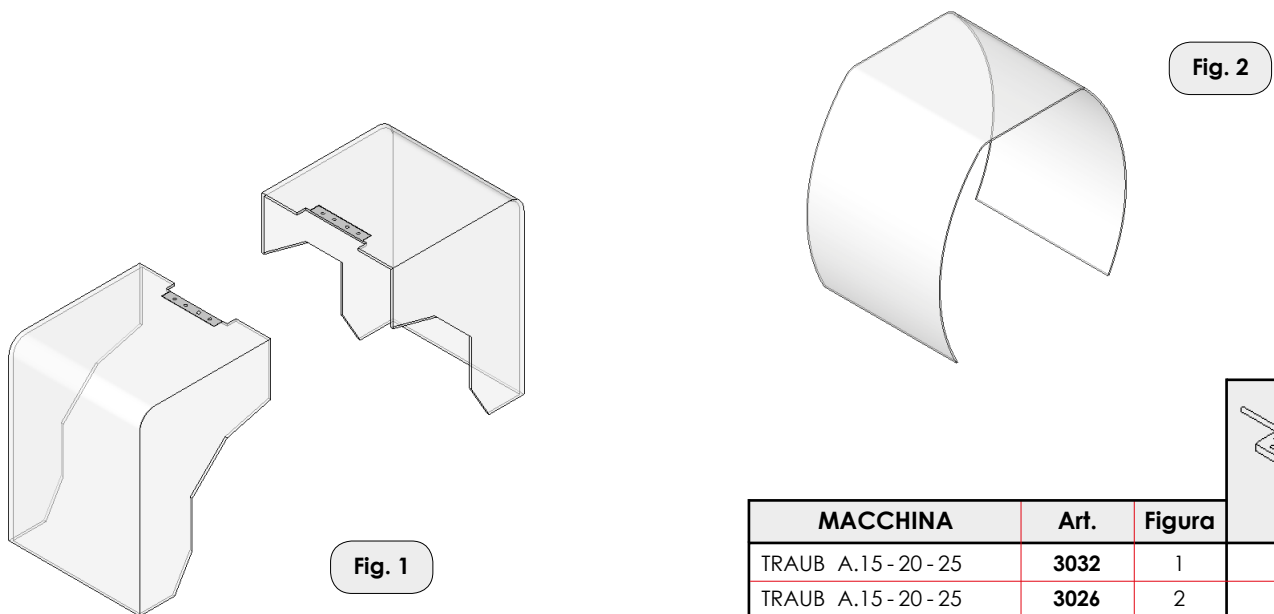
CONTACOLPI TIPO	Art.	Figura	Cifre
CONTACOLPI DESTRO <i>Right Strokes Counter</i>	1728	2	5
CONTACOLPI SINISTRO <i>Left Strokes Counter</i>	1729	2	5

POMPA PER ACQUA COOLING PUMP



Pos.	COMPONENTI	TRAUB A.15 - 20 - 25	TRAUB A.42 - 60
		Art.	Art.
1	Pompa Completa	2153	2452
2	Ingranaggi	1522	0610
3	Alberino Lungo	1277	0611
4	Alberino Corto	1276	—
5	Mozzo per Catena	0652	—

CAPPOTE DI PROTEZIONE OILSPASH COVERS



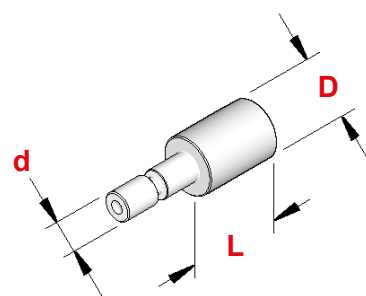
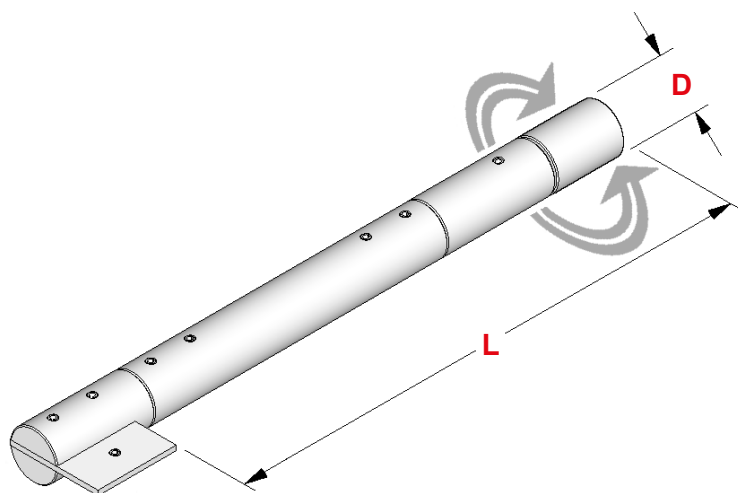
MACCHINA	Art.	Figura	Art.
TRAUB A.15 - 20 - 25	3032	1	3035
TRAUB A.15 - 20 - 25	3026	2	—
TRAUB A.36 - 42 - 60	3033	1	3035
TRAUB A.36 - 42 - 60	3027	2	—
TRAUB TB.30 - 42 - 60	3033	1	3035

BANDIERINE SPINGIBARRA A 1 ROTANTE

SINGLE REVOLVING BAR PUSHERS

Rotante
Revolving

MACCHINA	Art.	D	L	Art.	D	d	L
CASER TA.26 - 30	3002	25	525	2162	24	20	38
FEINLER FA.15	3006	14	490	2108	14,5	12	23
SAIC B.26 - 30	3011	27/24	410	2162	24	20	38
SAIC B.45	3014	44	max 800	2192	45	35	45
STROHM 125	3004	12	690	2194	12	10	46
TRAUB A.15	3006	14	490	2108	14,5	12	23
TRAUB A.20	3070	20	450	2110	20	16	28
TRAUB A.25	3009	24	500	2162	24	20	38

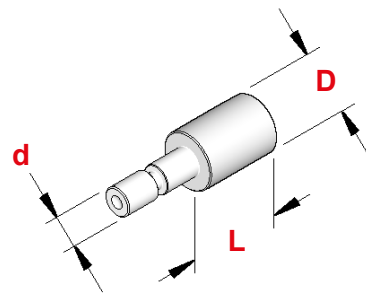
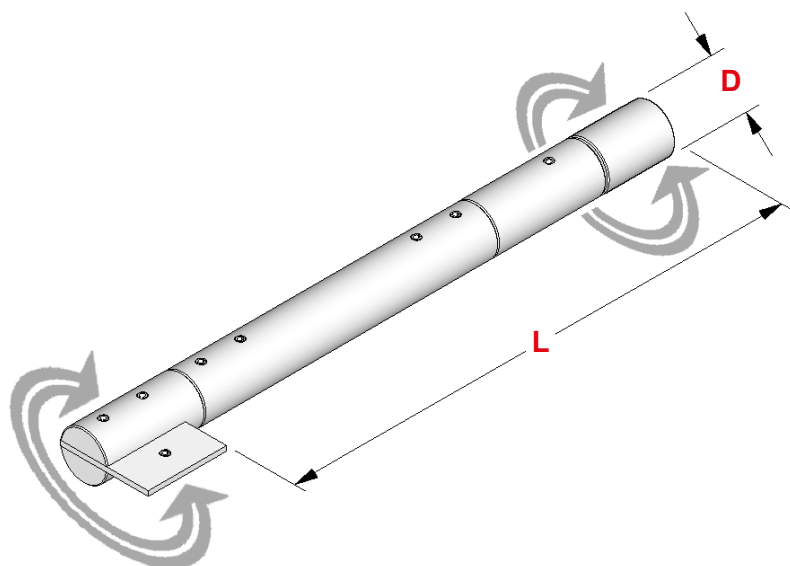


BANDIERINE SPINGIBARRA A 2 ROTANTI

DOUBLE REVOLVING BAR PUSHERS

Rotante
Revolving

MACCHINA	Art.	D	L	Art.	D	d	L
FEINLER FA.15	2914	14	480	2108	14,5	12	23
TRAUB A.15	2914	14	480	2108	14,5	12	23
TRAUB A.20	2972	20	450	2110	20	16	28
TRAUB A.25	2994	24	500	2162	24	20	38
TRAUB A.42	2998	40	max 800	2165	40	35	45



RICAMBI VARI - OTHER SPARES

MACCHINA	DESCRIZIONE	Art.
BECHLER AS.20-BR.20	MANDRINO PRINCIPALE	2208
FEINLER FA.10-15	PULEGGIA a 1 GOLA per POMPA ACQUA	1896
FEINLER FA.10-15	PULEGGIA a 3 GOLE per POMPA ACQUA	1908
INDEX 24-36-42-52-60	BOCCOLA IN BRONZO per ALBERO AVANZAMENTO TORRETTA (Rif 7997)	0630
INDEX 24-36-42-52-60	ALBERO ECCENTRICO per TORRETTA (Rif 27149)	0639
INDEX 24-36-42-52-60	CORONA per CATENA Z=25 FORO=65 (Rif 27543)	0623
INDEX 24-36-42-52-60	CORONA per CATENA Z=25 FORO=85 (Rif 27565)	0620
INDEX 24-36-42-52-60	BOCCOLA COMANDO INGRANAGGI per AVANZAMENTO (Rif 1/7077)	2777
INDEX 36-42	MANDRINO PRINCIPALE COMPLETO DI GHIERA	3023
INDEX 36-42	GHIERA DI REGISTRO per BRONZINA ANTERIORE MANDRINO PRINCIPALE (Rif 67282)	1873
ITS 26	CARTER SUPPORTO LEVA FORCELLA per APERTURA e CHIUSURA PINZA	2228
STROHM 75-105-125	BIETTA PER PORTABARRETTA VERTICALE	0053
STROHM 125	LEVA PER CAMMA BASCULA	2667
STROHM 125	VITE PER CAMMA Quadro 14 - M7x20	0425
STROHM 125	PASTIGLIA PER CARRI VERTICALI	2825
STROHM 125	ASTUCCIO De.40 per BOCCOLA REGISTRABILE D.20	0119
STROHM 125	GHIERA PER ASTUCCIO REGISTRABILE (M36x1)	0126
STROHM 205-255	PERNO per MANICOTTO SCORREVOLE	0496
STROHM 205-255	MANDRINO A FORARE per COMBINATO	1336
STROHM 205-255	FORCELLA DI BLOCCAGGIO MANDRINO per COMBINATO	0858
TORNOS M.7	MANDRINO PRINCIPALE	2366
TORNOS M.7	BRONZINA per MANDRINO PRINCIPALE	2367
TORNOS M.7-R.10	BIETTA per P/BARRETTA VERTICALE	0053
TORNOS R.10	ALBERO per FRIZIONE	1710
TORNOS R.10	MANDRINO A FILETTARE per COMBINATO	1554
TORNOS R.10	ASTUCCIO De.42 per BOCCOLA REGISTRABILE D.20	2581
TORNOS R.10	GHIERA PER ASTUCCIO REGISTRABILE (M36x1)	0126
TRAUB A.15-20-25	CINGHIA DENTATA per FRESA FILETTI	2766
TRAUB A.26	MANDRINO PRINCIPALE	1762
TRAUB TD.16-26-36	LEVA per SCATTO TORRETTA	2752
TRAUB TD.16-26-36	SETTORE per SCATTO TORRETTA	2846
TRAUB TB.30-42-60	INGRANAGGIO Z=56 per TORRETTA	2665
TRAUB TB.42-60	SETTORE con TASSELLO per APERTURA E CHIUSURA PINZA	2670
TRAUB TB.42-60	CINGHIA DENTATA 40T10 L=1390 per MANDRINO PRINCIPALE	2764
TRAUB TB.42-60	CINGHIA DENTATA 40T10 L=1460 per MANDRINO PRINCIPALE	2765
TRAUB TB.42-60	PULEGGIA per MANDRINO PRINCIPALE (VERSIONE con TORRETTA ELETTRICA)	4009