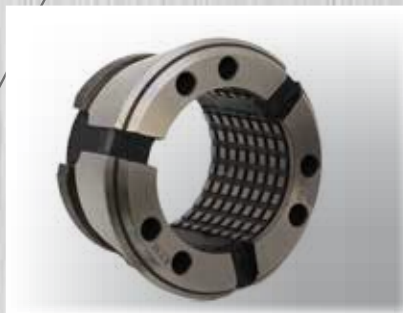


PINZE E UTENSILI
COLLETS AND TOOLS



RTM
MULTISPINDLE ATTACHMENTS



**IL VOSTRO PARTNER
PER L'EQUIPAGGIAMENTO
DEI TORNI AUTOMATICI**
*YOUR PARTNER FOR AUTOMATIC
LATHES EQUIPMENT*



R.T.M. Ricambi

Attiva fin dal 1987 nel settore della torneria automatica, R.T.M. è specializzata nella commercializzazione di parti di ricambio e attrezzature per torni automatici monomandrino, plurimandrino e CNC a fantina mobile e fissa. Sita a Brescia, RTM inizia la propria attività raccogliendo le esigenze del bacino d'utenza locale, per poi avviarsi a diventare, nel corso degli anni, un punto di riferimento a livello nazionale ed in particolare per tutto il polo industriale del nord Italia. La competenza dei nostri collaboratori e l'esperienza sino ad ora acquisita ci permette di assistere con affidabilità i nostri clienti e di offrire un valido supporto alle sempre crescenti richieste di un mercato in continua evoluzione. L'efficiente organizzazione del nostro magazzino ed il suo costante incremento garantiscono la disponibilità a stock di una vasta gamma di articoli.

RTM, all'avanguardia nella tecnologia della torneria di precisione, offre un rapido, specifico e qualificato servizio di assistenza alle aziende utilizzatrici di torni automatici.

RTM spare parts

Active since 1987 in automatic turning equipment, specializes in collets, spare parts and attachments for singlespindle, multispindle and CNC (both traditional and Swiss type) automatic lathes.

Based in Brescia, in the most industrialized part of Italy, RTM starts its activities gathering the needs of local turning factories and it later becomes a point of reference for national customers, particularly for the North Italian industrial pole.

The skills of RTM team and the acquired experience along with the efficient organization of our warehouse and its constant increase allow us to assist our clients with a reliable and professional service, as well as a valid support to the increasing demand of a steadily evolving market.

RTM, at the forefront in the high-precision turning technology, offers a speedy, specific and qualified assistance and guidance to all companies operating in automatic turning.



INDICE - INDEX

PINZE MONOMANDRINO	PAG. 7	DEAD LENGTH COLLETS
PINZE PLURIMANDRINO	PAG.15	MULTI-SPINDLE COLLETS
PINZE CARICATORE	PAG.52	BARLOADER COLLETS
UTENSILI	PAG.61	TOOLS



TIPOLOGIA PINZE - COLLETS TYPES

PROVA DI CONCENTRICITÀ ALLA ROTAZIONE

TEST OF ROTATION CONCENTRICITY

∅ D	L	max
0.5 - 1	3	0.015
1 - 1.6	6	0.02
1.6 - 3	10	0.02
3 - 6	16	0.02
6 - 10	25	0.02
10 - 18	40	0.03
18 - 24	50	0.03
24 - 30	60	0.03
30 - 50	80	0.04
50	100	0.04

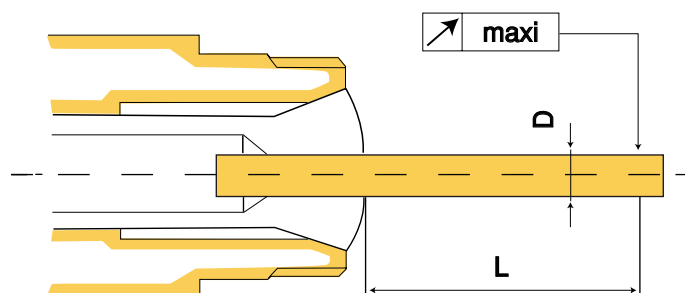
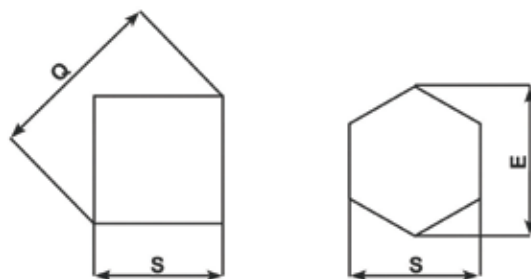


TABELLA PER IL CALCOLO DELLA DIAGONALE

DIAGONAL CALCULATION TABLE



S	Q	E
3	4.2	3.5
4	5.7	4.6
5	7.1	5.8
6	8.5	6.9
7	9.9	8.1
8	11.3	9.2
9	12.7	10.4
10	14.1	11.5
11	15.6	12.7
12	17	13.7
13	18.4	15
14	19.8	16.2
15	21.2	17.3

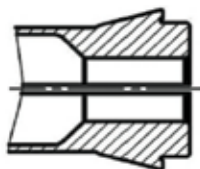
S	Q	E
16	22.6	18.5
17	24	19.6
18	25.4	20.8
19	26.9	21.9
20	28.3	23.1
21	29.7	24.3
22	31.1	25
23	32.5	26.6
24	33.9	27.7
25	35.4	28.9
26	36.8	30.1
27	38.2	31.2
28	39.6	32.4

S	Q	E
29	41	33.5
30	42.4	34.6
31	43.8	35.8
32	45.3	36.9
33	46.7	38.1
34	48.1	39.3
35	49.5	40.4
36	50.9	41.6
37	52.3	42.7
38	53.7	43.9
39	55.2	45
40	56.6	46.2
41	58	47.6

S	Q	E
42	59.4	48.5
43	60.8	49.7
44	62.2	50.8
45	63.6	52
46	65.1	53.1
47	66.5	54.4
48	67.9	55.5
49	69.3	56.6
50	70.7	57.7
51	72.1	59
52	73.5	60.1
53	75	61.2
54	76.4	62.4

S	Q	E
55	77.8	63.5
56	79.2	64.7
57	80.6	65.1
58	82	67
59	83.4	68.2
60	84.4	69.3
61	86.2	70.5
62	87.6	71.6
63	89	72.8
64	90.5	73
65	91.6	74

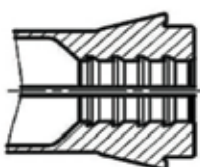
FORME ALESATURA SURFACE FINISHES



FORO LISCIO

SMOOTH BORE

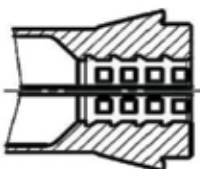
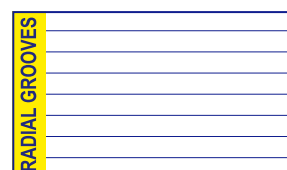
Foro liscio.
Smooth shaped bore.



FORO RIGATO

RIFLED BORE

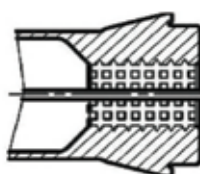
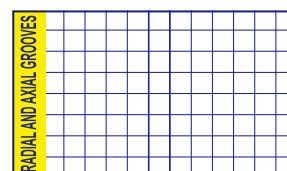
Foro rigato con canalini circolari.
Rifled bore with circular grooves.



FORO ZIGRINATO

KNURLED BORE

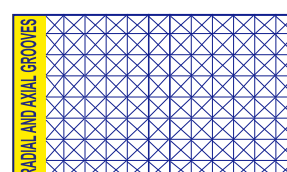
Foro zigrinato con canalini circolari e verticali.
Knurled bore with circular and vertical grooves.



FORO CON DENTATURA FITTA

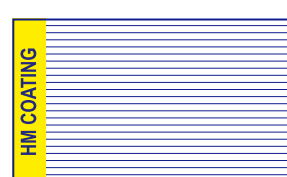
DENSE PYRAMID TOOTHING

Foro a piramide con canalini circolari e verticali.
Pyramid hole with circular and vertical grooves.

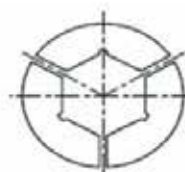


RIVESTIMENTO IN METALLO DURO

HM COATING



FORME STANDARD DELLE PINZE STANDARD COLLET FORMS



SI ESEGUONO PINZE CON FORME SPECIALI A RICHIESTA

SPECIAL FORM COLLETS ARE AVAILABLE ON REQUEST



PINZE MONOMANDRINO

COLLETS FOR SINGLE SPINDLE LATHES

PINZE A SPINTA CONO SEMPLICE	PAG.9	DEAD LENGTH COLLETS
PINZE A SPINTA DOPPIO CONO	PAG.10	DEAD LENGTH COLLETS DOUBLE CONE
PINZE ER	PAG.10	ER RANGE COLLETS
PINZE A CAMBIO RAPIDO TIPO HAINBUCH	PAG.11	HAINBUCH TYPE CLAMPING HEADS
BUSSOLE IN METALLO DURO PER FANTINE MOBILI	PAG.12	CARBIDE GUIDE BUSHINGS FOR SLIDING HEADSTOCK
PINZE SPINGIBARRA PER TORNI MONOMANDRINO	PAG.14	FEED FINGERS FOR SINGLE SPINDLE LATHES



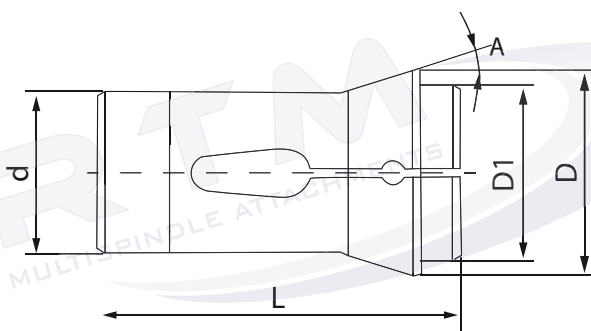
PINZE



COLLETS

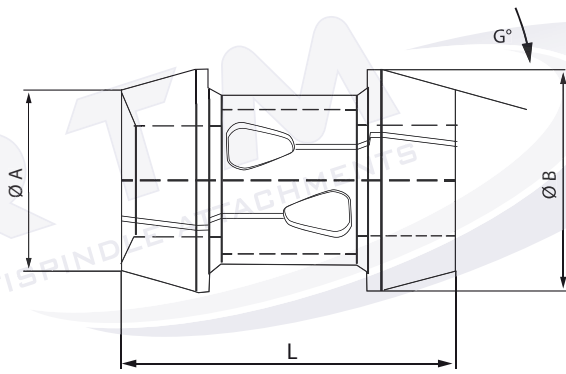


PINZE A SPINTA CONO SEMPLICE - DEAD LENGTH COLLETS



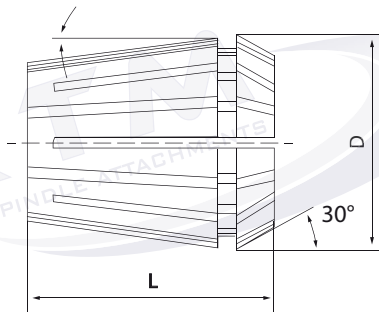
Cod.	Desc.	d	D	L	a	Max	
100 E	F6-599	6.0	10.0	30.0	15°	4.5	-
101 E	F8-577	8.0	12.0	42.0	16°	6.0	-
116 E	F13-357	13.0	19.0	64.0	16°	10.0	8.0
120 E	F15-580	15.0	21.0	64.0	16°	12.0	10.0
121 E	F15-358	15.0	22.0	47.0	20°	10.0	9.0
1212 E	F16-1076	16.0	21.0	64.0	16°	13.0	11.0
123E	F16-104	16.0	22.0	55.0	15°	13.0	11.0
127E	F18-85	18.0	25.0	67.0	15°	12.0	10.0
128E	F18-579	18.0	24.0	64.0	16°	12.0	10.0
136 E	F20-201	20.0	26.0	54.0	15°	16.0	12.0
138 E	F20-87	20.0	28.0	67.0	16°	16.0	12.0
140 E	BA15	22.0	30.0	55.0	15°	18.0	15.0
143 E	F25-581	25.0	31.0	54.0	15°	16.0	14.0
144E	F25-91	25.0	34.0	65.0	15°	20.0	17.0
145 E	F25-64	25.0	35.0	77.0	16°	20.0	17.0
146 E	F26-90	26.0	32.0	67.0	13°	20.0	17.0
147E	F27-22	27.0	38.0	72.7	15°	23.0	20.0
148 E	BA20	28.0	38.0	70.0	15°	23.0	20.0
1446 E	F30-101	30.0	38.0	65.0	15°	25.0	22.0
157 E	F30-63	30.0	42.0	80.0	16°	25.0	22.0
161 E	BA25	32.0	45.0	75.0	15°	26.0	23.0
162 E	F35-67	35.0	43.0	70.0	15°	25.0	22.0
163 E	BA30	35.0	48.0	80.0	15°	30.0	26.0
1536 E	F37-740	37.0	47.0	92.0	16°	32.0	28.0
BA32	BA32	38.0	50.0	86.0	15°	32.0	28.0
164 E	F38-72	38.08	49.0	108.0	15°	32.0	28.0
171 E	BA36	42.0	55.0	94.0	15°	36.0	32.0
173 E	BA42	48.0	60.0	94.0	15°	42.0	36.0
177 E	BA52	58.0	70.0	94.0	15°	52.0	45.0
185 E	BA60	66.0	84.0	110.0	15°	60.0	52.0
187 E	F72	72.0	90.0	142.0	15°	64.0	55.0
BA70	BA70	80.0	98.0	115.0	15°	70.0	60.0
190E	F88	88.0	106.0	115.0	15°	80.0	69.0
193E	F90	90.0	107.0	130.0	15°	80.0	69.0
BA80	BA80	95.0	117.0	125.0	15°	80.0	70.0
196E	F112	112.0	138.0	120.0	15°	100.0	86.0
BA100	BA100	115.0	135.0	140.0	15°	100.0	86.0

PINZE A SPINTA DOPPIO CONO - DEAD LENGTH COLLETS - DOUBLE CONE



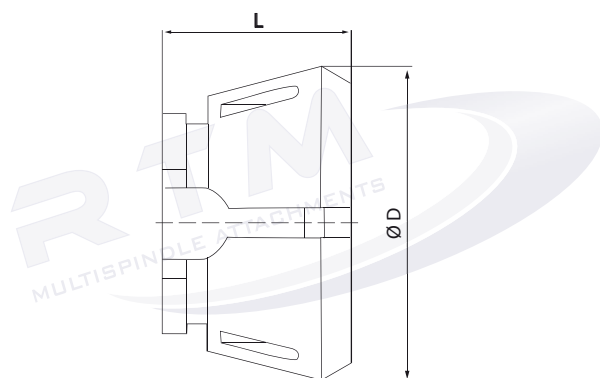
Cod.	A	B	L	a		Max	
BD32	39.0	50.0	70.0	17°		32.0	27.0
BD36	41.0	52.0	80.0	17°		36.0	31.0
BD42	46.0	57.0	80.0	17°		42.0	36.0
BD45	49.0	60.0	80.0	17°		45.0	38.0
BD52	60.0	70.0	80.0	16°		52.0	45.0
BD55	60.0	71.0	100.0	17°		55.0	45.0
BD60	70.0	81.0	90.0	17°		64.0	52.0
BD70	80.0	91.0	100.0	17°		70.0	60.0
BD80	95.0	108.0	105.0	17°		80.0	68.0
BD100	115.0	130.0	120.0	17°		100.0	86.0

PINZE ER - ER RANGE COLLETS



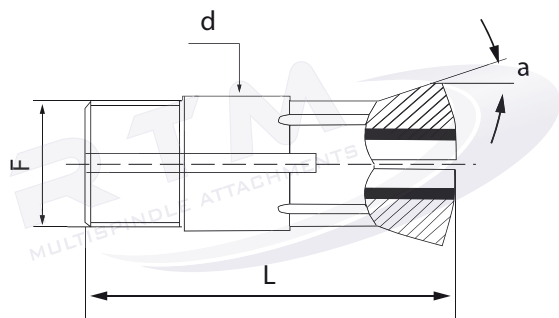
Cod.	Desc.	D	L		Max	
4260E	ER8	8.5	13.5		5.0	-
4009E	ER11	11.5	18.0		7.0	-
426E	ER16	17.0	27.0		12.0	-
428E	ER20	21.0	31.0		15.0	-
430E	ER25	26.0	35.0		20.0	-
470E	ER32	33.0	40.0		25.0	-
472E	ER40	41.0	46.0		30.0	-

PINZE A CAMBIO RAPIDO TIPO HAINBUCH - HAINBUCH TYPE CLAMPING HEADS



Cod.		D	L	Max	
SK32BZI		58.8	47.0	32.0	27.0
SK32BZIG	LISCIA / SMOOTH	58.8	47.0	32.0	27.0
SK42BZI		79.3	47.0	42.0	36.0
SK42BZIG	LISCIA / SMOOTH	79.3	47.0	42.0	36.0
SK52BZI		79.2	46.0	52.0	45.0
SK52BZIG	LISCIA / SMOOTH	79.2	46.0	52.0	45.0
SK65BZI		99.15	58.0	65.0	56.0
SK65BZIG	LISCIA / SMOOTH	99.15	58.0	65.0	56.0
SK80BZI		114.5	53.0	80.0	68.0
SK80BZIG	LISCIA / SMOOTH	114.5	53.0	80.0	68.0
SK100BZI		144.5	59.0	100.0	86.0

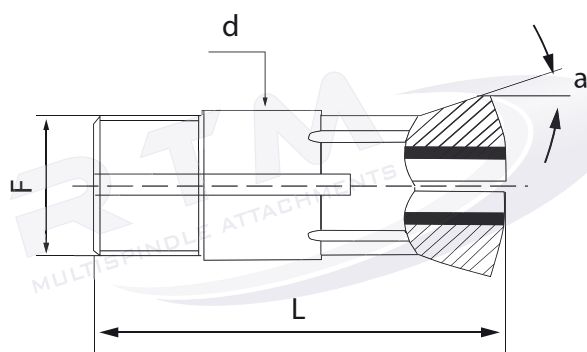
BUSSOLE IN METALLO DURO PER FANTINE MOBILI CARBIDE GUIDE BUSHINGS FOR SLIDING HEADSTOCK



Cod.	Ref.	d	L	a	F	Ø Max
T7-29		7	29	30°	M6X0.5	3.0
T7-30		7	30	16°	M6X0.5	3.5
T9-26		9	26	30°	M6X0.5	4.0
T9-44		9	44	16°	M8X0.75	4.0
T9-50		9	50	30°	M8X0.6	4.0
T11-50		11	50	30°	M10X0.6	7.5
T11-53-M10.075		11	53	16°	M10X0.75	6.0
T11-53-M10.080		11	53	16°	M10X0.80	6.0
T12-50-M10.075		12	50	16°	M10X0.75	7.0
T12-50-M12.1		12	50	30°	M12X1	7.0
T13-41.5		13	41.5	15°	M12.5X0.75	9.0
T14-64		14	64	16°	M13X0.75	10.0
T16-58		16	58	16°	M14X1	10.0
T16-59		16	59	16°	M14X1	10.0
T16-61		16	61	30°	M15X1	10.0
T17-61		17	61	30°	M15X1	12.0
T18-59-M16.1	853T	18	59	30°	M16X1	13.0
T18-59-M18.1		18	59	30°	M18X1	13.0
T20-55		20	55	30°	M20X1	13.0
T21-56.4		21	56.4	12°	M18X1	15.0
T21-57.4		21	57.4	12°	M18X1	14.0
T21-65.5		21	65.5	12°	M18X1	14.0
T22-68-M19.1	1354T	22	68	16°	M19X1	14.0
T22-68-M22.1	39001T	22	68	16°	M22X1	17.0
T22-68-M22.1- R		22	68	16°	M22X1	17.0
T22-68		22	68	16°	M22X1	17.0
T23-72		23	72	16°	M22X1	17.0
T24-61	605T	24	61	30°	M24X1	17.0
T25-71		25	71	30°	M25X1	16.0
T26-77		26	77	16°	M25X1	20.0

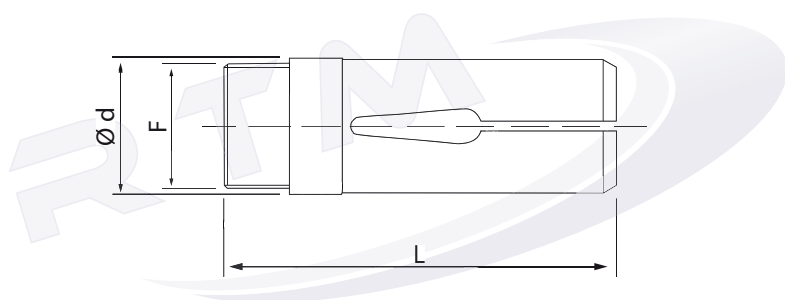
BUSSOLE IN METALLO DURO PER FANTINE MOBILI

CARBIDE GUIDE BUSHINGS FOR SLIDING HEADSTOCK



Cod.	Ref.	d	L	a	F	Ø Max
T27-57.5		27	57.5	12°	M24X1	18.0
T27-67.5		27	67.5	12°	M24X1	18.0
T28-81	1357T	28	81	30°	M25X1	20.0
T28-82-M25.1	223T	28	82	16°	M25X1	20.0
T28-82-M27.1		28	82	16°	M27X1	22.0
T30-70		30	70	16°	M28X1	23.0
T32-71		32	71	30°	M32X1	21.0
T34-87.5	227T	34	87.5	10°	M34X1	27.0
T40-72M36.1		40	72	30°	M36X1	27.0
T40-72-M40.1		40	72	30°	M40X1	28.0
T41-54		41	54	10°	M38X1	32.0
T42-82-C16	229T	42	82	16°	M40X1	32.0
T42-82-C16-M		42	82	16°	M42X1	35.0
T42-82-C16-R		42	82	16°	M40X1	32.0
T42-82-C20		42	82	20°	M40X1	32.0
T44-87		44	87	20°	M40X1	32.0
T45-82		45	82	16°	M42X1	32.0
T46-92		46	92	16°	M45X1	38.0
T48-81-C10		48	81	10°	M46X1	38.0
T48-81-C30	106T	48	81	30°	M48X1.25	42.0
T48-82		48	82	16°	M46X1	38.0

PINZE SPINGIBARRA PER TORNI MONOMANDRINO FEED FINGERS FOR SINGLE SPINDLE LATHES



Cod.	Desc.	d	L	F	Max	
207E	DG12	18.0	70.0	M16X1 Sx/Lh	12.0	11.0
217E	DG12/16	21.0	70.0	M20X1 Sx/Lh	16.0	14.0
220E C	C19	24.0	85.0	M22X1 Sx/Lh	18.0	16.0
236E C	29	30.0	95.0	M28X1 Sx/Lh	24.0	21.0
237E A	A25	31.0	90.0	M29X1 Sx/Lh	25.0	22.0
254E B	42	42.0	116.0	M40X1 Sx/Lh	36.0	30.0
273E B	B60	60.0	140.0	M58X1 Sx/Lh	52.0	45.0

CHIAVETTE PER PINZE / INDEXING KEYS FOR COLLETS

Chiave / Key	Pinze / Collets
15X5X6,5	BA 36/42/52/60/70 BD 36/45/52/60/70
21,65X6X9	BA 80/100/120 BD 80/100

GOMMINI PER PINZE / RUBBER INSERTS

Cod.	Gommino per pinze / Rubber Insert
G06	Ø 6
G08	Ø 8

PINZE SPECIALI A DISEGNO SPECIAL DRAWING COLLETS



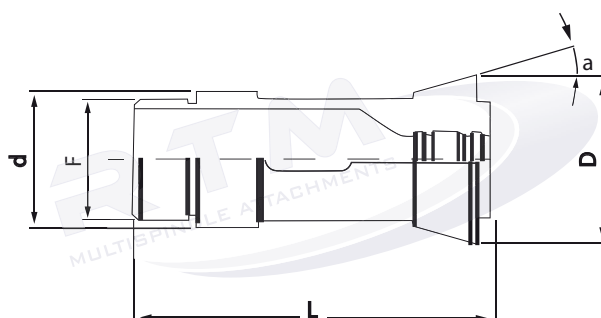


PINZE PLURIMANDRINO - COLLETS FOR MULTI-SPINDLE LATHES

PINZE DAVENPORT	PAG.16	DAVENPORT COLLETS
PINZE EUROTURNO	PAG.17	EUROTURNO COLLETS
PINZE GILDEMEISTER	PAG.18	GILDEMEISTER COLLETS
PINZE GRIDLEY	PAG.22	GRIDLEY COLLETS
PINZE INDEX	PAG.23	INDEX COLLETS
PINZE MORI-SAY	PAG.25	MORI-SAY COLLETS
PINZE PITTLER	PAG.27	PITTLER COLLETS
PINZE SCHÜTTE	PAG.28	SCHÜTTE COLLETS
PINZE TORNOS	PAG.31	TORNOS COLLETS
PINZE WICKMAN	PAG.33	WICKMAN COLLETS
PINZE PLURIMANDRINO TIPO HAINBUCH	PAG. 35	HAINBUCH TYPE COLLETS

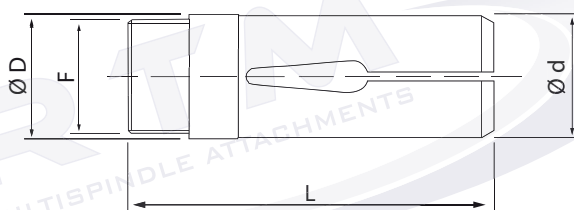


STRINGIBARRA DAVENPORT DAVENPORT CLAMPING COLLETS



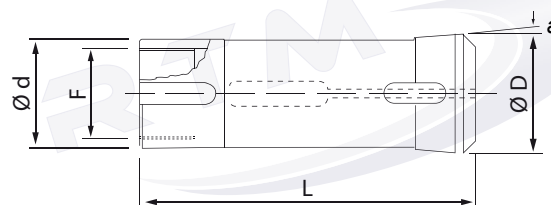
Cod.	d	D	L	a	F	Max
9/16"	26.95	30.19	114.3	15°	Ø 26.53 X 16 fil"	13.0 11.0
3/4"	31.01	38.15	114.3	15°	Ø 29.72 X 16 fil"	19.0 16.0
11/16"	31.01	38.15	114.0	15°	Ø 29.72 X 16 fil"	19.0 16.0

SPINGIBARRA DAVENPORT DAVENPORT FEED FINGERS



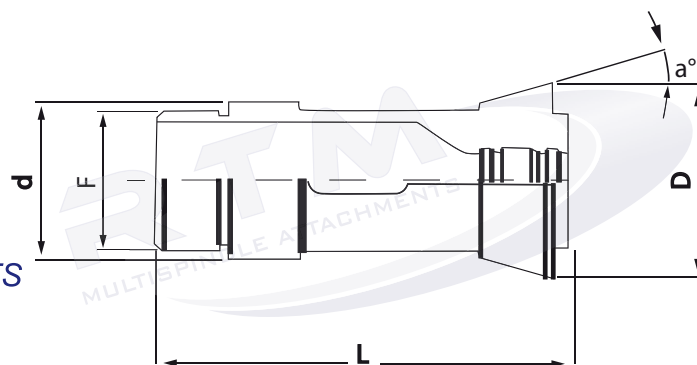
Cod.	d	D	L	F	Max
9/16"	20.60	20.60	87.3	Ø17.95X 20 fil"	13.0 11.0
3/4"	25.14	25.14	94.8	Ø 23.84 X 32 fil"	19.0 16.0
11/16"	25.14	25.14	95.4	Ø 23.84 X 32 fil"	19.0 16.0

MANDRINO DA RIPRESA DAVENPORT DAVENPORT PICK UP COLLETS



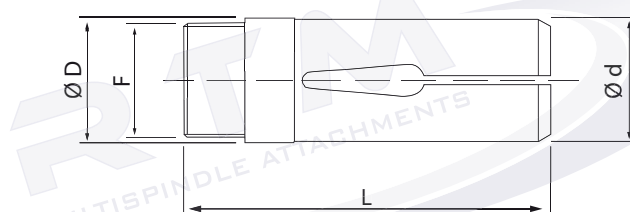
Cod.	d	D	L	F	Max
9/16"	20.60	20.60	87.3	Ø17.95X 20 fil"	13.0 11.0
3/4"	25.14	25.14	94.8	Ø 23.84 X 32 fil"	19.0 16.0
11/16"	25.14	25.14	95.4	Ø 23.84 X 32 fil"	19.0 16.0

STRINGIBARRA EUROTURN EUROTURN CLAMPING COLLETS



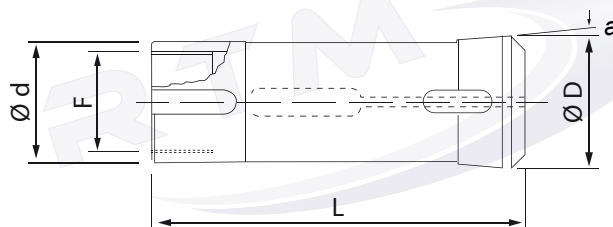
Cod.	Desc.	d	D	L	a	F	Max	
9012-E	EUROTURN 20	34.0	42.0	90.0	16°	m30 X 1 Sx/Lh	20.0	17.0
9034-E	EUROTURN 6/26 WICKMAN TYPE	41.3	54.5	132.0	15°	Ø 37.8 X 24 Sx/Lh	25.0	22.0
	EUROTURN 6/25 NEW BRITAIN 1" TYPE	41.15	54.48	130.18		Ø 1.484" X 24 Sx/Lh	25.4	22.0
9070-E	EUROTURN 32 SCHÜTTE TYPE	53.0	69.3	136.0	15°	m47 X 1.5 Sx/Lh	32.0	28.0
9067-E	EUROTURN 32 ACME GRIDLEY TYPE	52.24	64.70	152.00	15°	Ø 46 X 20 fil" Sx/Lh	32.0	27.0
9112-E	EUROTURN 42	62.9	78.3	157.0	15°	m56 X 1.5 Sx/Lh	42.0	36.0

SPINGIBARRA EUROTURN EUROTURN FEED FINGERS



Cod.	Desc.	d	D	L	F	Max	
9258-E	EUROTURN 20	25.0	25.0	90.0	M24X1	20.0	17.0
9276-E	EUROTURN 6/26 WICKMAN TYPE	31.0	31.0	133.0	Ø 30.07 X 24 Sx/Lh	25.0	22.0
	EUROTURN 6/26 NEW BRITAIN 1" TYPE		31.75	133.35	1.185"X24 Sx/Lh	25.4	23.0
9319-E	EUROTURN 32 SCHÜTTE TYPE	40.0	43.0	130.0	M38 x 1.5	32.0	28.0
9285-E	EUROTURN 32 ACME GRIDLEY TYPE	38.0	39.5	168.0	Ø 36.5 X 20 Sx/Lh	32.0	27.0
9372-E	EUROTURN 42	48.0	51.0	158.0	M48X1.5	42.0	36.0

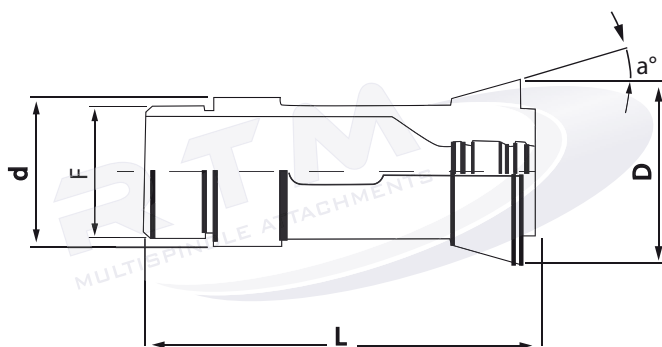
MANDRINO DA RIPRESA EUROTURN EUROTURN PICK UP COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
C0002800	EUROTURN 20	28.0	32.0	64.0	8°	m24 X 1.5 Sx/Lh	23.0	20.0
Q0003550	EUROTURN 32	35.5	40.0	80.0	8°	Bayonet Ø 27 X 2.7 - 30°	32.0	27.0
Q0004700	EUROTURN 42	47.0	52.5	73.0	8°	Bayonet Ø 29 x 2.7 - 30°	42.0	36.0

STRINGIBARRA GILDEMEISTER

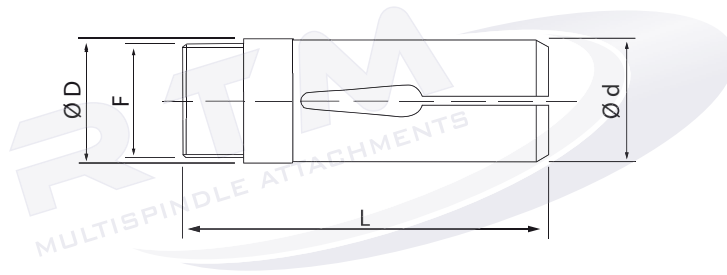
GILDEMEISTER CLAMPING COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
9013E	AS12	26.8	34.0	88.0	15°5'	M24X1.0 Sx/Lh	12.0	10.0
9023E	GM16	30.0	39.0	80.5	15°	AtcB 27.12x1,5 60	16.0	14.0
9012E	AS16/20 GS/ GM 20	34.0	42.0	90.0	16°	M30X1.0 Sx/Lh	24.0	19.0
9017E	AS16/20 GS/ GM20 Mod. 25	38.0	45.5	90.0	16°	M34.5X0.75 Sx/Lh	27.0	24.0
9044E	AS22	45.0	60.4	159.0	15°	M40X1.5 Sx/Lh	22.0	19.0
9045E	AS25	45.0	60.4	164.0	15°	M40X1.0 Sx/Lh	34.0	28.0
9046E	GS25	45.0	60.4	164.0	15°	M40X1.5 Sx/Lh	34.0	28.0
9046ER	GS 25 V. 32	45.0	60.4	164.0	15°	M42X1.5 Sx/Lh	34.0	28.0
Q1104101	GM26	41.0	53.0	106.0	15°	AtcB 37x2,7 30'	26.0	22.0
9069E	AS32 GM32/35	53.0	69.4	139.0	15°	M48X1.5 Sx/Lh	38.0	31.0
9081E	GS35/36/42	56.0	72.4	137.0	15°	M52X1.5 Sx/Lh	42.0	35.0
9115E	GM42	64.0	80.5	134.0	15°	M59X1.5 Sx/Lh	45.0	40.0
9132E	AA/AV/AS48	70.0	90.4	167.5	15°	M65X1.5 Sx/Lh	53.0	45.0
9151E	GS50	75.0	97.4	165.0	15°	M68X1.5 Sx/Lh	50.0	43.0
9178E	AA/AV/AS67	90.0	115.4	183.5	15°	M85X1.5 Sx/Lh	67.0	55.0
9209E	AS/AV 82	109.0	138.4	189.0	15°	M102X1.5 Sx/Lh	90.0	77.0
9239E	AS100	128.0	160.4	250.0	15°	M122X1.5 Sx/Lh	110.0	94.0

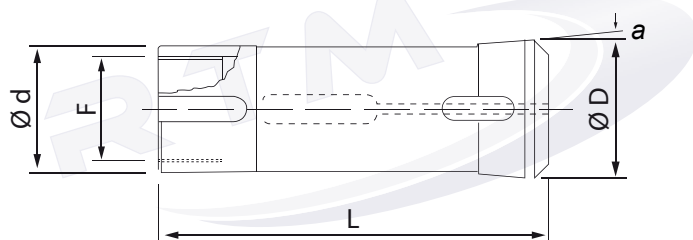
SPINGIBARRA GILDEMEISTER

GILDEMEISTER FEED FINGERS



Cod.	Desc.	d	D	L	F	Max	
9259E	AS12	17.5	19.5	82.0	M17X1.0	12.0	10.0
9268E	GM16	20.0	22.0	86.0	M20X1.0	16.0	14.0
9258E	AS16/20 GS/ GM20	25.0	25.0	90.0	M24X1.0	20.0	17.0
9288E	AS16/20 GS/GM20 Mod. 25	30.0	30.5	90.0	M28.5X0.75	25.0	22.0
9287E	AS25	32.5	33.0	140.0	M30X1.0 Sx/Lh	25.0	21.0
9289E	GS25	34.2	30.0	140.0	M30X1.0	25.0	22.0
9289ER (22.10.158)	GS25 V 32	37.5	38.5	140.0	M36X1.0	32.0	28.0
L1103140	GM26	30.5	31.4	108.0	M29.5X0.75	26.0	22.0
9316E	AS/AV 32	40.0	39.8	136.0	M38X1.5 Sx/Lh	32.0	27.0
9333E	GS35/36/42	45.0	43.8	136.0	M42X1.5 Sx/Lh	35.0	30.0
9336E dx	AS/GM32 Right thread	40.0	41.2	136.0	M38X1.5	32.0	28.0
9336E sx	AS/GM32 Left thread	40.0	41.2	136.0	M38X1.5 Sx/Lh	32.0	28.0
9335E dx	GM35 Right thread	41.0	41.2	136.0	M39X1.0	35.0	31.0
9335E sx	GM35 Left thread	41.0	41.2	136.0	M39X1.0 Sx/Lh	35.0	31.0
9374E	GM42	50.2	51.5	136.0	M48X1.5	42.0	37.0
9368E	AV/AA/AS48	56.0	57.0	136.0	M54X1.5 Sx/Lh	48.0	42.0
9401E	GS 50/51	60.0		160.0	M57X1.5 Sx/Lh	50.0	43.0
9447E	AA/AV/AS67	76.0	77.5	170.0	M74X1.5 Sx/Lh	67.0	58.0
9475E	AS/AV82	94.0	93.0	18.0	M88X1.5 Sx/Lh	82.0	70.0
9483E	AS100	114.0	113.0	235.0	M108X1.5 Sx/Lh	100.0	87.0

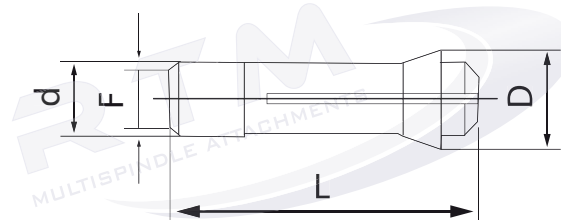
MANDRINO DA RIPRESA GILDEMEISTER GILDEMEISTER PICK-UP COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
C1101580	AS12	15.8	22.0	85.0	5°	M13X0.75 Sx/Lh	12.0	10.0
Q0001870	GM16	18.7	25.0	51.5	8°	Atcb 21x1.5 60°	16.0	14.0
C1102600	AS16/20 GS/ GM20 PNEUMATIC	26.0	28.5	80.0	6°	21.5X0.75	20.0	17.0
C0002800	AS16/20 GS/ GM20 HYDRAULIC	28.0	32.0	64.0	8°	M24X1.5 Sx/Lh	25.0	20.0
Q0002800	GM20 CNC	28.0	32.0	73.0	8°	Atcb 24.8x2.7	24.5	21.0
C1103701	GS25	37.0	45.0	78.0	15°	M30X1.5	32.0	28.0
Q0002870	GM26	28.7	35.0	64.5	8°	Atcb Ø31X1.5 60°	26.0	22.0
C1103000	AS25/32	30.0	34.7	63.0	15°	M20X1.0	24.0	21.0
C1103000	AS25/32	30.0	34.7	63.0	15°	M20X1.5	22.0	21.0
C0003900	AS32 / GM32/35	39.0	44.0	90.0	8°	M34X1 Sx/Lh	35.0	28.0
C1103802	AS32	38.0	43.1	80.0	15°	M24X1.5	32.0	28.0
Q0003900	GM32/35	39.0	44.0	82.0	8°	Atcb Ø11x4	32.0	28.0
Q0004700	GM42	47.0	52.5	73.0	8°	Atcb Ø29x2.7	42.0	36.0
C0005600	AS48	56.0	60.0	95.0	8°	M51X1 Sx/Lh	48.0	42.0
C1104502	AS48	45.0	65.1	90.0	5°	M28x1.5	48.0	42.0
C1104504	AS67	45.0	90.1	100.0	5°	M28X1.5	67.0	58.0

MANDRINO FRONTALE GILDEMEISTER

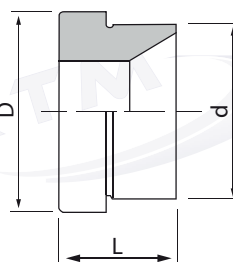
GILDEMEISTER FRONTAL SPINDLE



Cod.	Desc.	d	D	L	Max	
PPGD20	AS16/20 GS/GM20	20.0	26.0	60.0	20.0	-

ANELLI GUIDABARRA GILDEMEISTER

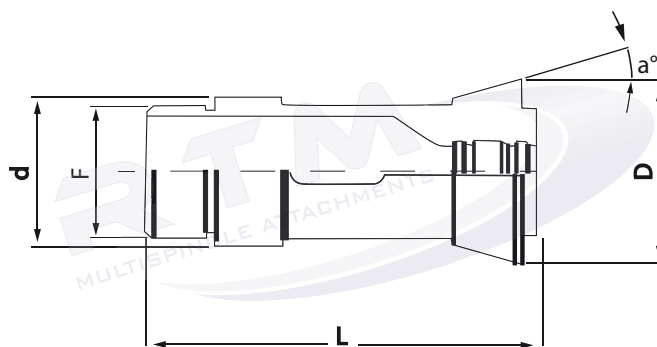
GILDEMEISTER GUIDE RINGS



Cod.	Desc.	d	D	L	Max	
T1101900	AS12	19.0	0.0	10.0	12.0	11.0
T1101851	GM16	16.0	18.5	18.0	20.0	17.0
T1101850	GM16	18.5	0.0	12.0	16.0	14.0
T1102850	AS16/20 GS/ GM20	28.5	0.0	10.0	25.0	22.0
T1102851	AS16/20 GS/ GM20	25.0	28.5	25.0	20.0	17.0
T1103020	AS25	26.3	30.2	8.0	25.0	22.0
T1104381	AS25	33.0	43.8	27.0	25.0	22.0
T1103600	GS25	32.5	36.0	44.0	32.0	27.0
T1103023	GM26	32.0	37.5	36.0	26.0	22.0
T1104001	GM32	40.0	47.8	43.0	32.0	27.0
T1104201	GM35	42.0	47.8	43.0	35.0	30.0
T1104700	GM42	47.0	52.0	43.0	42.0	36.0
T1103590	AS32	32.7	35.9	9.0	32.0	27.0
T1104380	AS32	33.0	43.8	27.0	32.0	27.0
T1105190	AA-AS48	49.7	51.9	16.0	48.0	42.0
T1105750	AA-AS48	49.0	57.5	35.0	8.0	42.0
T1107200	AS67	67.9	72.0	17.5	67.0	58.0
T1107201	AS67	68.7	72.0	23.0	67.0	58.0
T1108000	AS67	68.0	80.0	52.0	67.0	58.0
T1108610	AS80	83.5	86.1	28.0	80.0	69.0
T1109150	AS80	83.0	91.5	62.0	80.0	69.0

STRINGIBARRA GRIDLEY

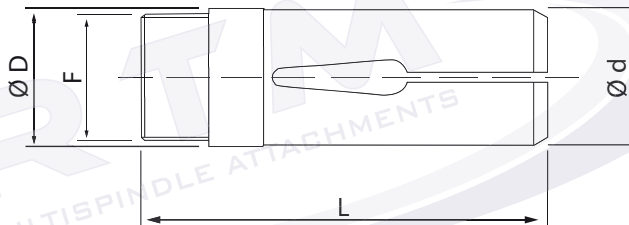
GRIDLEY CLAMPING COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
C2602370	7/16 "	23.77	29.3	78.6	15°	20.64X32F" sx/lh	11.0	10.0
9005 E	9/16 "	29.3	35.4	105.7	15°	25.4 x 20f " sx/lh	20.0	17.0
9038 E	1"	44.4	54.3	139.7	12° 30	39.7 x 18f " sx/lh	34.0	29.0
9067 E	1" 1/4	52.3	64.7	152.0	15°	46 x 20f " sx/lh	38.0	32.0
9109 E	1" 5/8	63.5	73.4	158.7	12° 30	55.5 x 16f " sx/lh	48.0	41.0
9141 E	2"	76.8	95.5	180.0	15°	68,2 x 16f " sx/lh	58.0	50.0
9181 E	2" 5/8	92.07	111.0	165,1	15°	85,7 x 18f "	80.0	69.0
9214 E	3" 1/2	114.0	146.0	202.0	14° 30	106,3 x 18f "sx/lh	98.0	84.0

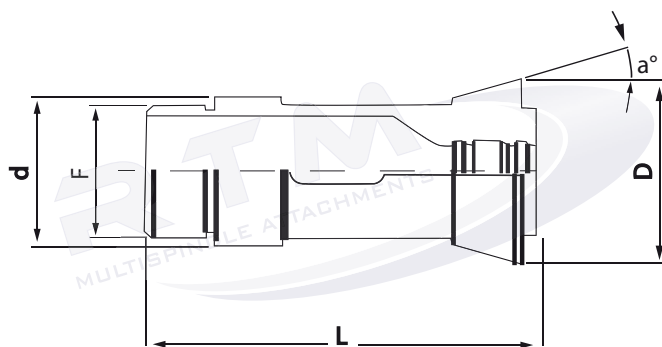
SPINGIBARRA GRIDLEY

GRIDLEY FEED FINGERS



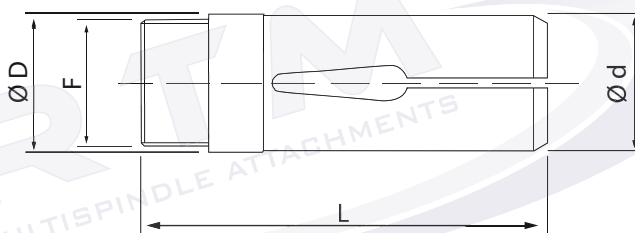
Cod.	Desc.	d	D	L	F	Max	
L2601680	7/16 "	15.8	16.8	73.4	15.08x32F" sx/lh	11.0	10.0
9252E	9/16"	18.0	19.7	69.4	17.4X32F" sx/lh	14.0	12.0
9278E	1"	32.0	34.92	136.5	31.7X20F" sx/lh	26.0	22.0
9285E	1" 1/4	38.0	39.2	168.3	36.45X20F" sx/lh	32.0	27.0
9361E	1" 5/8	47.63	52.1	152.4	47.6x20F" sx/lh	40.5	35.0
9405E	2"		62.7	171.4	58.7x24F" sx/lh	51.0	44.0
9446E	2" 5/8		76.2	177.8	73X24F" sx/lh	67.0	58.0
9479E	3" 1/2		99.2	259.5	95.2X18F" sx/lh	89.0	77.0

STRINGIBARRA INDEX INDEX CLAMPING COLLETS



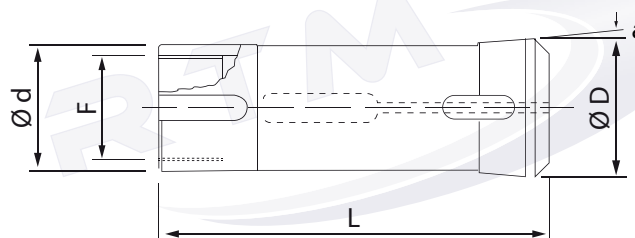
Cod.	Desc.	A	B	L	a	F	Max	
9007E	MS16	32.0	41.5	84.0	15°	M28x100 Sx/Lh	16.0	14.0
9033E	KS20 - KS22	40.0	55.2	105.5	15°	M35x150 Sx/Lh	14.0	12.0
9039E	KS25 - MS25	46.0	60.3	120.0	16°	M40x150 Sx/Lh	20.0	17.0
9070E	KS32	53.0	69.0	136.0	16°	M47x150 Sx/Lh	25.0	22.0
9108E	KS42	62.0	82.4	180.0	15°	M58x150 Sx/Lh	24.0	20.0
9133E	KS50	70.0	92.0	157.0	15°	M65x200 Sx/Lh	25.0	21.0
9181E	MS/KS 67-8	92.07	111.0	165.0	15°	Ø85.72x18 Sx/Lh	77.0	65.0

SPINGIBARRA INDEX INDEX FEED FINGERS



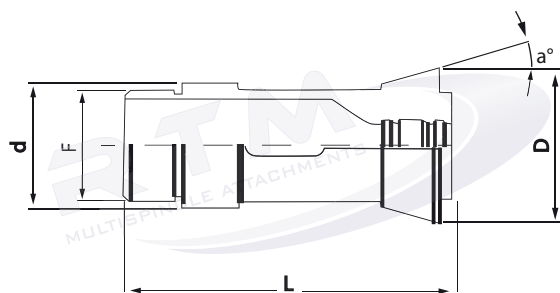
Cod.	Desc.	d	L	F	Max	
9255E	MS16	25.0	88.0	M23x100	18.0	15.0
9273E	KS20 - KS22	30.8	102.0	M28x150	22.0	19.0
9282E	KS25 - MS25	35.0	118.0	M33x150	25.0	22.0
9319E	KS32	41.8	130.0	M38x150	32.0	28.0
9364E	KS 42	54.0	170.0	M50x100 Sx/Lh	42.0	36.0
9402E	KS50	60.0	156.0	M57x100 Sx/Lh	50.0	43.0
9445E	MS/KS67-8	77.0	179.0	Ø73x24 Sx/Lh	66.0	47.0

MANDRINO DA RIPRESA INDEX INDEX PICK-UP COLLETS



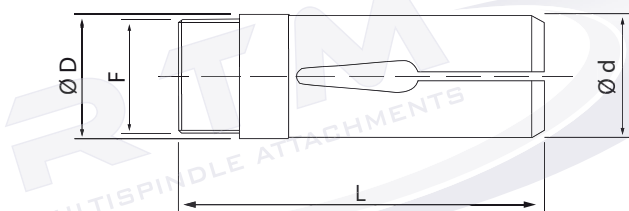
Cod.	Desc.	d	D	L	a	F	Max	
9039PU	MS25	25.0	31.0	59.0	15°		21.0	18.0
9039PUGM	MS25	25.0	35.4	65.0	15°		25.0	21.0
9108PU	KS 32/42/50	36,5	49.0	49.8	15°	M28x1.5 Sx/Lh	30.0	25.0

STRINGIBARRA MORI-SAY MORI-SAY CLAMPING COLLETS



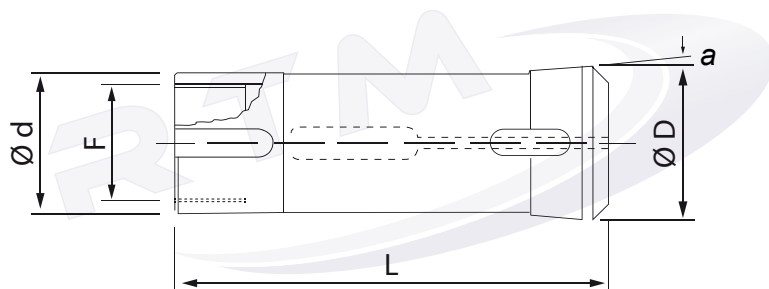
Cod.	Desc.	d	D	L	a	F	Max
9007E	PENTA TMZ518	32.0	42.0	84.0	15°	M28X1 Sx/Lh	19.0 17.0
9012E	6/20	34.0	42.0	90.0	16°	M30X1 Sx/Lh	24.0 19.0
9034E	6/25-626	41.3	54.5	132.0	15°	Ø37,8 X 24 Sx/Lh	30.0 24.0
9069E	6/32-8/32 Type Gildemeister	53.0	69.4	139.0	15°	M48X1.5 Sx/Lh	38.0 31.0
9070E	6/32-8/32 Type Schütte	53.0	69.3	136.5	15°	M47X1.5 Sx/Lh	38.0 32.0
9112E	6/42-8/42 Type Schütte	62.9	78.3	157.0	15°	M56X1.5 Sx/Lh	49.0 41.0
9139E	6/51	75.0	97.8	187.0	15°	M68X1.5 Sx/Lh	51.0 44.0
9142E	6/57	76.86	95.5	181.0	15°	Ø72,46 X 22 Sx/Lh	62.0 53.0
9178E	6/67	90.0	115.4	183.0	15°	M85X1.5 Sx/Lh	66.0 57.0
9181E	6/67	92.07	111.0	165.0	15°	Ø85,72 X 18 Sx/Lh	77.0 65.0

SPINGIBARRA MORI-SAY MORI-SAY FEED FINGERS



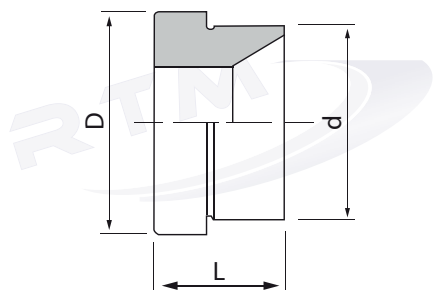
Cod.	Desc.	d	D	L	F	Max
9258E	6/20	25.0	25.0	90.0	M24X1	20.0 17.0
9276E	6/25-626	31.0	31.9	133.0	Ø30,07X24 Sx/Lh	25.0 22.0
9319E	6/32-8/32 Type Schütte	40.0	42.0	130.0	M38X1.5	32.0 28.0
9336E	6/32-8/32 Type Gildemeister	39.8	41.2	136.0	M38X1.5 Sx/Lh	32.0 28.0
9372E	6/42-8/42 Type Schütte	48.0	51.0	158.0	M48X1.5	42.0 36.0
9406E	6/51	58.0	62.0	180.0	M58X1.5	51.0 44.0
9409E	6/57	64.3	65.0	71.5	Ø65,509X22 Sx/Lh	57.0 49.0
9445E	6/67	74.0	76.0	179.0	Ø73X24 Sx/Lh	66.0 47.0
9447E	6/67	76.0	77.5	170.0	M74X1.5 Sx/Lh	67.0 58.0

MANDRINO DA RIPRESA MORI-SAY MORI-SAY PICK-UP COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
							●	⬡
C0002800	6/20	28.0	32.0	64.0	8°	M24X1.5 Sx/Lh	24.0	20.0
Q0003550	6/25-626-6/32-8/32	35.5	40.0	80.0	8°	AtcBØ27x2,7-30	32.0	27.0
A2205200	6-8/32	52.0	60.5	60.0	15°			
Q0004700	6/42-8/42	47.0	52.5	73.0	8°	AtcBØ29x2.7	42.0	36.0
Q4506000	6/57-6/67	60.0	72.6	75.0	15°	10'AtcBØ29x2.5	51.0	42.0

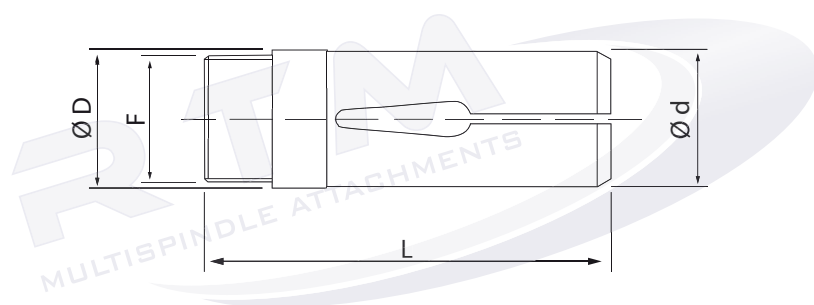
ANELLI GUIDABARRA MORI-SAY MORI-SAY GUIDE RINGS



Cod.	Desc.	d	D	L	Max	
					●	⬡
TMS620	6/20	24.0	25.0	28.2	20.0	17.0
TMS625	6/25	0.0	30.0	18.0	25.0	22.0
TMS626	626	35.0	42.5	40.0	26.0	23.0
TMS632	6/32-8/32	0.0	36.0	18.0	32.0	28.0
TMS642	6/42-8/42	0.0	46.0	18.0	42.0	36.0
TMS667	6/67	0.0	75.0	25.0	67.0	57.0

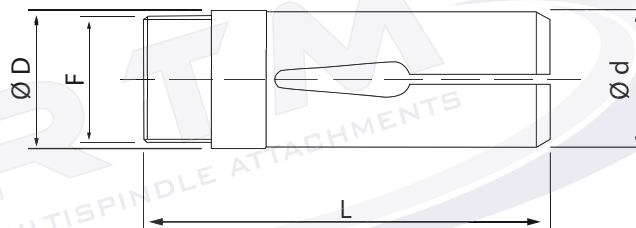
STRINGIBARRA PITTLER

PITTLER CLAMPING COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
9038 E	PRC 25/8	44.4	54.3	139.7	12°	30 39.7 x 18f " Sx/Lh	34.0	29.0
9039 E	PS 26 SAS 26/8	46.0	60.3	120.0	15°	M40 x 150 Sx/Lh	33.0	28.0
	32/6	53.0	69.3	133.0	15°	M48 x 1.5	38.0	32.0
9067 E	PRB 32 PRC 32	52.3	64.7	152.0	15°	46 x 20f " Sx/Lh	38.0	32.0
9078 E	PRC 36	56.92	69.7	152.0	15°	50.8 x 20f " Sx/Lh	42.0	36.0
9081 E	PS 36	56.0	72.4	137.0	15°	M52 x 150 Sx/Lh	42.0	36.0
9141 E	PRB 50 PRC 50	76.8	95.5	180.0	15°	68.2 x 16f " Sx/Lh	58.0	50.0
9151 E	PS 51	75.0	97.4	155.0	15°	M68 x 150 Sx/Lh	58.0	50.0
9206 E	PRC 72	106.0	127,7	225.0	15°	96.8 x 18f " Sx/Lh	86.0	74.0
9236 E	PRC 100	136.5	165.7	224.0	15°	128.5 x 18f " Sx/Lh	120.0	103.0
9240 E	PRC 120	153.82	180.0	240.0	15°	M148 x 150 Sx/Lh	138.0	119.0

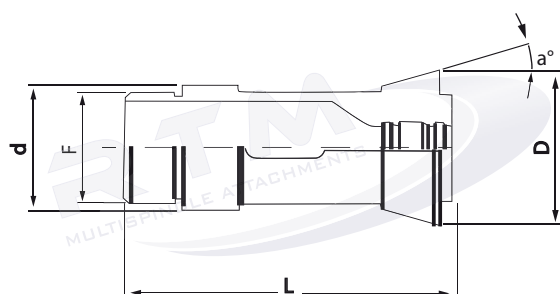
SPINGIBARRA PITTLER PITTLER FEED FINGERS



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
9278 E	PRC 25/8	31.75	34.92	136.5	31.7x20f" Sx/Lh	25.5	22.0
9282 E	PS 26 SAS 26/8	33.0	35.0	118.0	M33X150°	26.0	22.0
9285 E	PRB 32 - PRC 32	38.0	39.2	168.3	36.45X20f" Sx/Lh	32.0	27.0
9330 E	PRC 36	43.2	44.3	168.0	41.2X20f" Sx/Lh	36.0	31.0
9333 E	PS 36	43.8	45.0	136.0	M42.0X150 Sx/Lh	36.0	31.0
9405 E	PRB 50 PRC 50	59.0	62.7	171.4	58.7X24f" Sx/Lh	51.0	44.0
9401 E	PS 51	59.0	60.0	160.0	M57X150 Sx/Lh	51.0	44.0
9472 E	PRC 72	85.0	92.0	214.0	85.7X24f" Sx/Lh	75.0	64.0
9482 E	PRC 100	114.3	116.0	273.0	111,1X18f" Sx/Lh	102.0	88.0
9484 E	PRC 120	135.0	138.0	280.0	M132X150 Sx/Lh	122.0	105.0

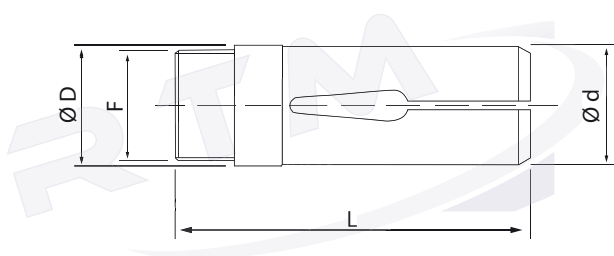
STRINGIBARRA SCHÜTTE

SCHÜTTE CLAMPING COLLETS



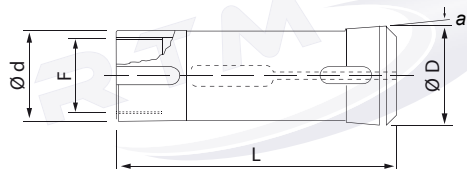
Cod.	Desc.	d	D	L	a	F	Max	
							●	⬢
9015E	SF13	25.0	36.1	75.0	15°	M22X1 Sx/Lh	13.0	11.0
9006E	SB16	30.0	40.5	80.0	15°	M26X1 Sx/Lh	16.0	14.0
9007E	SE16/18	32.0	42.0	84.0	15°	M28X1 Sx/Lh	19.0	17.0
90076H	SG18-AG20 Cil.	32.0	41.8	84.0	15°	M28X1 Sx/Lh	19.0	17.0
90078H	SG18-AG20 Con.	32.0	41.5	84.0	15°	M30X1 Sx/Lh	23.0	19.0
9016E	SF20	32.0	41.5	84.0	15°	M30X1 Sx/Lh	20.0	17.0
9039E	VD/SD/SE25-AF/SF26	46.0	60.3	120.0	15°	M40X1.5 Sx/Lh	30.0	28.0
9049E	VD/SD 25/26	46.0	60.3	112.0	15°	M40X1.5 Sx/Lh	25.0	22.0
SEF0020	36PC	56.0	72.0	39.0	15°	M52X1.5 Sx/Lh	36.0	31.0
9070E	VD/SD/SF/AF32	53.0	69.3	136.5	15°	M47X1.5 Sx/Lh	38.0	32.0
9112E	AD40-SF42	62.9	78.3	157.0	15°	M56X1.5 Sx/Lh	49.0	41.0
9139E	AF-SF51-SD/VD50	75.0	97.8	187.0	15°	M68X1.5 Sx/Lh	51.0	44.0
9179E	VD/SD/SF63	90.0	115.3	212.0	15°	M82X1.5 Sx/Lh	63.0	55.0
9187E	AF/SF67	89.9	115.4	180.0	15°	M85X1.5 Sx/Lh	70.0	63.0
9210E	AF/SF81-SD/VD80	109.0	138.8	241.0	15°	M100X1.5 Sx/Lh	80.0	73.0

SPINGIBARRA SCHÜTTE SCHÜTTE FEED FINGERS



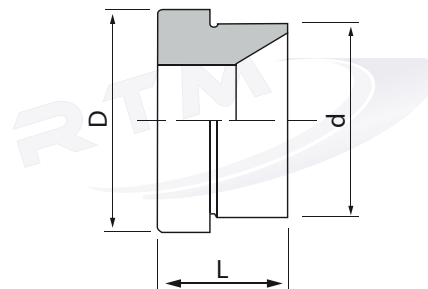
Cod.	Desc.	d	D	L	F	Max ● ●
9261E	SF13	17.0	19.6	77.0	M18X1	11.0 11.0
9254E	SB16		23.0	88.0	M21X1 DXoSX	16.0 14.0
9255E	SE16/18- SG18-AG20	23.0	25.0	88.0	M23X1	16.0 17.0
9262E	SF20	25.0	27.0	88.0	M25X1	17.0 16.0
9282E	VD/SD/SE25-AF/ SF26	33.0	35.0	118.0	M33X1.5	23.0 19.0
9319E	VD/SD/SF/AF32	40.0	42.0	130.0	M38X1.5	32.0 28.0
	36PC	43.8	45.0	136.0	M42X1.5 Sx/Lh	36.0 25.0
9372E	AD40-SF42	48.0	51.0	158.0	M48X1.5	36.0 28.0
9406E	VD/SD50/AF/SF51	58.0	62.0	180.0	M58X1.5	51.0 44.0
9450E	SD/VD/SF63	72.0	77.0	210.0	M72X1.5 Sx/Lh	63.0 55.0
9456E	SF67	78.0	78.0	196.0	M75X1.5 Sx/Lh	67.0 50.0
9474E	SD80	90.0	92.8	226.5	M88X1.5 Sx/Lh	80.0 70.0

MANDRINO DA RIPRESA SCHÜTTE SCHÜTTE PICK-UP COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
	SF13	20.0	24.0	45.0	15°	M16X1.5 Sx/Lh	14.0	
C2202500	SE16	25.0	35.1	58.0	15°	M18X1.5 Sx/Lh	18.0	16.0
Q2202500	SG18-AG20	25.0	32.1	91.5	15°10°		19.0	16.0
C0002800	SE16/25	28.0	32.0	64.0	8°	M24X1.5 Sx/Lh	24.0	20.0
C2202800	SF20/SF26	28.0	36.0	53.0	15°10°	M24X1.5 Sx/Lh	22.0	19.0
C2203200	SE25-SF26	32.0	46.0	71.0	15°	M22X1.5 Sx/Lh	26.0	23.0
	SF26	34.0	42.0	53.0	15°		26.0	23.0
Q0003550	SE25-SF26	35.5	40.0	80.0	8°10°	AtcBØ27x2.7 30°	32.0	27.0
C0003900	SD/SF/AF32	39.0	44.0	90.0	8°	M34X1 Sx/Lh	35.0	28.0
	VD/SD 32	39.0	50.6	81.0	15°	M26X1.5 Sx/Lh	26.0	23.0
A2204400	S32PC-S36PC	44.0	54.0	76.0	15°		34.0	29.0
Q0004700	AD40-SF42	47.0	52.5	73.0	8°	AtcBØ29x2.7 30°	42.0	36.0
A2205200	AD40-SF42	52.0	60.5	60.0	15° 10°		40.0	35.0
	AD40	39.0	60.6	81.0	15°	M26X1.5 Sx/Lh	26.0	23.0
C0005600	AD40-SF42-SF51	56.0	60.0	95.0	8°	M51X1 Sx/Lh	48.0	42.0
q0007500	sd/sf 63	75.0	86.0	150.0	7°30°	AtcB 21x4	68.0	59.0
A2206300	SF50/51	63.0	71.6	60.0				
A2205900	S51PC	59.0	67.0	76.0				

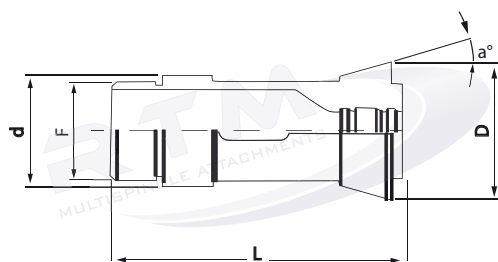
BOCCOLE GUIDABARRA SCHÜTTE SCHÜTTE GUIDE RINGS



Cod.	Desc.	d	D	L	Max	
					●	◻
T2202800	SE16/18	28.0	-	24.0	18.0	16.0
T2202801	SF20	28.0	-	22.0	20.0	17.0
T2203800	SE25	38.0	-	28.0	26.0	22.0
T2203801	SD25	38.0	46.0	25.0	26.0	22.0
T2204001	SF/SF26 - VD32	40.0	-	28.0	32.0	27.0
T2203900	SD32	39.0	48,8	29.0	32.0	27.0
T2204600	SD32	46.0	53.0	30.0	32.0	27.0
T2205000	AD40/SF42	50.0	54.0	33.0	42.0	36.0
T2205200	AD40/SF42	52.0	-	36.0	42.0	36.0
T2206180	AD40/SF42	50.8	61.8	44.0	42.0	36.0
T2206500	SD/VD50 - SF51	65.0	75.0	35.0	51.0	44.0
T2208500	SD63	85.0	-	35.0	63.0	55.0

STRINGIBARRA TORNOS

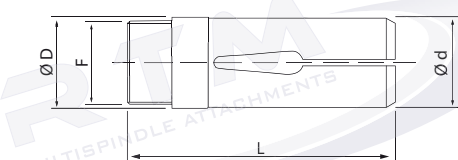
TORNOS CLAMPING COLLETS



Cod.	Desc.	d	D	L	a	F	Max ● ◆	
9001E	BS-AS14	25.0	35.0	75.0	15°	M22X1	14.0	11.0
9021E	SAS16	25.0	35.0	94.0	15°30'	M25X1	16.0	14.0
9018E	BS22/20	36.0	45.0	107.0	15°	M33X1.25	23.0	19.0
9019 E	BS22	35.0	45.0	107.0	15°30'	M33X1	22.0	19.0
9018E	BS 20/22	36.0	45.0	107.0	15°45'	M33X1.25	23.0	19.0
9020E	BS20 B	36.0	45.0	107.0	15°30'	M33X1.25	20.0	17.0
9039E	MULTI-DECO 26/32	46.0	60.3	120.0	15°	M40X1.5 Sx/Lh	30.0	28.0
9012E	MULTI-DECO 20	34.0	42.0	90.0	16°	M30X1.0 Sx/Lh	24.0	19.0
9081E	SAS36	56.0	72.4	139.0	15°	M52X1.5 Sx/Lh	36.0	31.0

SPINGIBARRA TORNOS

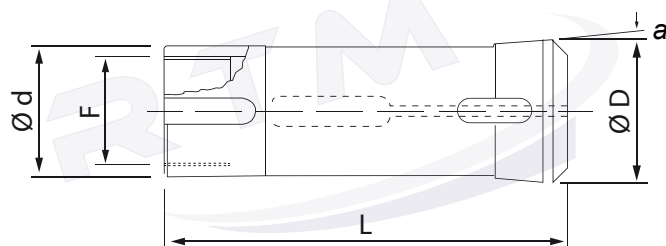
TORNOS FEED FINGERS



Cod.	Desc.	d	D	L	F	Max ● ◆	
9251E	AS14	17.5	18.0	70.0	M16X0.75	14.0	11.0
9251E Mod.	AS14	17.5	18.0	70.0	M17X0.75	14.0	11.0
9265E	SAS16	20.5	22.8	98.0	M20X0.75	16.0	14.0
9266E	BS20B	25.3	27.7	116.0	M25X1	20.0	17.0
9258E	MULTI - DECO 20	25.0	-	90.0	M24X1	20.0	18.0
9263E	BS22	29.7	-	116.0	M27X1	23.0	20.0
9282E	MULTI - DECO 26	37.0	-	118.0	M33X1.5	26.0	22.0
9333E	SAS36	44.0	-	136.0	M42X1.5 Sx/Lh	36.0	30.0

MANDRINO DA RIPRESA TORNOS

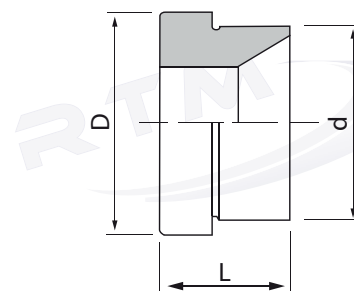
TORNOS PICK-UP COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
F16/830	AS14-SAS16	16.0	21.0	66.0	16°	M14X0.75	13.0	8.0
145-E	BS20B	25.0	35.0	77.0	16°		20.0	17.0
Q0002800	MULTI-DECO 20	28.0	32.0	73.0	8°	ATCBØ24.8X2.7	24.5	21.0
Q0003550	MULTI-DECO 26	35.5	40.0	80.0	8°	ATCBØ27X2.7	32.0	27.0
171-E	SAS36	42.0	55.0	94.0	15°		36.0	32.0

BOCCOLE GUIDABARRA TORNOS

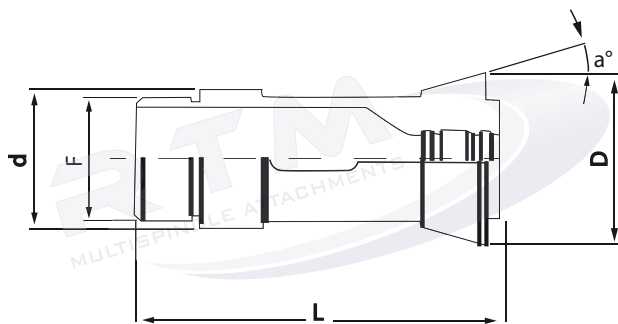
TORNOS GUIDE RINGS



Cod.	Desc.	d	D	L	Max	
T1302400	SAS16	0.0	M24x1 Sx/Lh	15.0	16.0	14.0

STRINGIBARRA WICKMAN

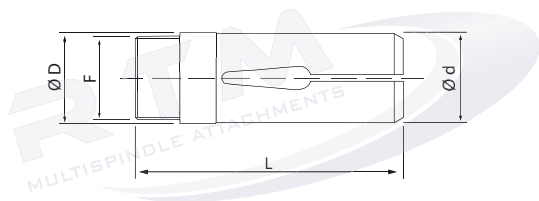
WICKMAN CLAMPING COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
9014E	5/8"	29.4	38.1	92.0	15°	Ø26,21 X 24	17.0	15.0
9034E	1"	41.3	54.5	132.0	15°	Ø37,8 X 24 Sx/Lh	30.0	24.0
PIWOVE	1" OVERSIZE 30MM	49.21	60.72	110.0	15°	M44.2X1 Sx/Lh	34.0	28.0
	32/8	50.72	63.57	109.5	15°	Ø46.0375 X 18	31.0	27.0
9072E	1" 3/8	55.47	67.0	117.0	15°	Ø50,927X22 Sx/Lh	41.0	34.0
9111E	1" 3/4	64.21	78.5	127.0	15°	Ø60,45 X 16 Sx/Lh	46.0	40.0
9151E	2" 1/4 - 5	77.72	89.0	152.4	15°	73.6X16	65.0	56.0
9142E	2" 1/4 - 6	76.86	95.5	181.0	15°	Ø72,46 X 22 Sx/Lh	62.0	53.0
9181E	2" 5/8	92.07	111.0	165.0	15°	Ø85,72 X 18	77.0	65.0
	3" 1/4	106.36	127.0	196.85	15°	Ø100.81X6	89.0	77.0
9212E	3" 1/2	111.12	134.9	165.1	15°	106.5x18	98.0	84.0

SPINGIBARRA WICKMAN

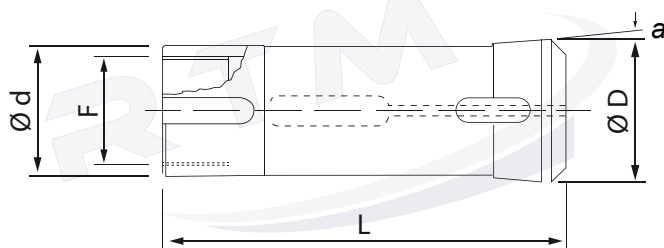
WICKMAN FEED FINGERS



Cod.	Desc.	d	D	L	F	Max	
9260E	5/8"	21.6	21.6	86.0	Ø19.53X24 Sx/Lh	16.0	13.0
9276E	1"	31.0	31.9	133.0	Ø30.07 X 24 Sx/Lh	26.0	22.0
SBWOVE	1" OVERSIZE 30MM	37.4	38.0	114.3	Ø35 X 1 Sx/Lh	30.0	26.0
	32-8	38.9	39.6	120.0	Ø36.1 X 24 Sx/Lh	31.0	27.0
9318E	1" 3/8	41.5	42.84	118.0	Ø40.46 X 22 Sx/Lh	36.0	31.0
9362E	1" 3/4	51.5	52.21	127.0	Ø49.98 X 22 Sx/Lh	44.0	38.0
9409E	2" 1/4	64.3	65.1	171.0	Ø62.509 X 22 Sx/Lh	57.0	49.0
9445E	2" 5/8	74.0	76.0	179.0	Ø73 X 24 Sx/Lh	66.0	47.0
9478E	3" 1/2						

MANDRINO DA RIPRESA WICKMAN

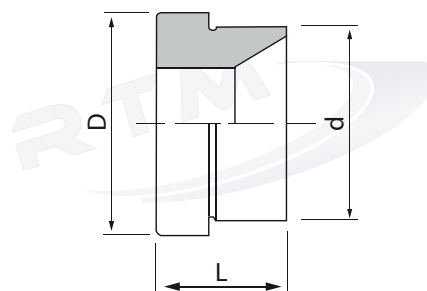
WICKMAN PICK-UP COLLETS



Cod.	Desc.	d	D	L	a	F	Max	
C0002800	5/8"	28.0	32.0	64.0	8°	M24X1.5 Sx/Lh	25.0	20.0
A1201900	5/8"	19.04	25.4	55.56	15°	-	14.0	12.0
A1202540	1"	25.4	38.0	94.0	15°30'	-	20.0	17.0
Q0003550	1"	35.5	40.0	80.0	8°	AtcBØ27x2.7 30°	32.0	27.0
A1203960	1"3/8-3/4	39.67	65.0	122.0	15°	-	33.0	29.0
Q0004700	1"3/8-3/4	47.0	52.5	73.0	8°	AtcBØ29x2.7	42.0	36.0
C0006500	2"/14	65.0	70.0	84.0	8°	M54X1 Sx/Lh	57.0	49.0
Q0007500	2" 5/8	75.0	87.0	150.0		AtcBØ		

BOCCOLE GUIDABARRA WICKMAN

WICKMAN GUIDE RINGS



Cod.	Desc.	d	D	L	Max	
T1202850	5/8"	28.5	-	19.0	16.0	14.0
T1203020	1"	30.2	41	16.0	25.0	22.0
T1203490	1"	34.9	42	25.5	25.0	22.0
T1204445	1"3/8	44.45	49.21	26.98	36.0	31.0
T1205080	1"3/4	50.8	58.7	28.5	44.0	38.0
T1206660	2"1/4	66.67	77.5	43.0	57.0	49.0

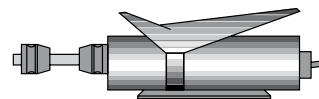
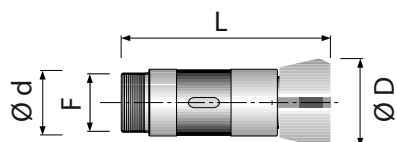


PINZE PLURIMANDRINO TIPO HAINBUCH HAINBUCH TYPE COLLETS FOR MULTISPINDLE LATHES

PINZE TIPO HAINBUCH PER GILDEMEISTER	<i>PAG.36</i>	GILDEMEISTER HAINBUCH TYPE COLLETS
PINZE TIPO HAINBUCH PER SCHÜTTE	<i>PAG.39</i>	SCHÜTTE HAINBUCH TYPE COLLETS
PINZE TIPO HAINBUCH PER TORNOS	<i>PAG.46</i>	TORNOS HAINBUCH TYPE COLLETS
PINZE TIPO HAINBUCH PER INDEX	<i>PAG.47</i>	INDEX HAINBUCH TYPE COLLETS

PINZE TIPO HAINBUCH GILDEMEISTER AS16-AS/GS/GM 20

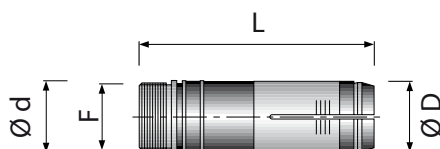
HAINBUCH TYPE COLLETS GILDEMEISTER AS16-AS/GS/GM 20



Cod.	Desc.	d	D	L	F	Max	
SG9012BZ	Basic body BZ / Corpo	34.0	42.0	90.0	M30X1 Sx/Lh		
SK9012BZ	Clamping head BZ / Pinza					20.0	17.0
WV02260002	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
MQQ08	Manual changing fixture / Attrezzo manuale cambio pinza						
WV902D0002	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH GILDEMEISTER AS16-AS/GS/GM 20

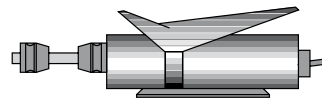
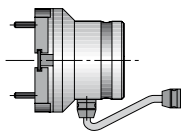
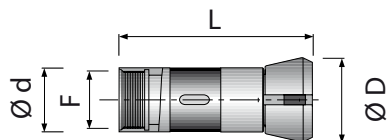
HAINBUCH TYPE FEED FINGERS GILDEMEISTER AS16-AS/GS/GM 20



Cod.	Desc.	d	D	L	F	Max	
9258E/RS	Outer Sleeve / Corpo	24.6	25.0	90.0	M24X1		
RS20/ST	Inner Collet Steel / Inserto Acciaio					18.0	15.0
RS20/SB	Inner Collet Steel Brass / Inserto ottone					18.0	15.0
RS20/SPH	Inner Collet SPH / Inserto SPH					18.0	15.0
RS20/KSB	Inner Collet KSB / Inserto KSB					16.0	14.0
RS20/OXK	Inner Collet OXK / Inserto OXK					17.0	
S20	Wrench / Chiave						

PINZE TIPO HAINBUCH GILDEMEISTER AS16-AS/GS/GM 20 MOD 25

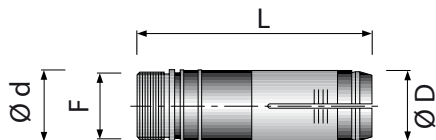
HAINBUCH TYPE COLLETS GILDEMEISTER AS16-AS/GS/GM 20 MOD 25



Cod.	Desc.	d	D	L	F	Max	
SG9012BZ-2	Basic body BZ / Corpo	38.0	45.5	90.0	M34.5X0.75 Sx/Lh.		
SK9012BZ-2	Clamping head BZ / Pinza					25.0	21.0
WV02260004	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
WV902D0002	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH GILDEMEISTER AS16-AS/GS/GM 20 MOD 25

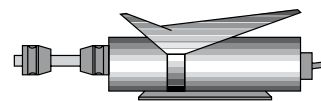
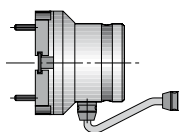
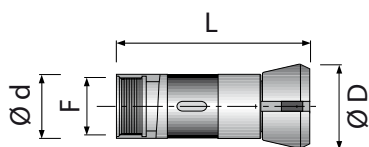
HAINBUCH TYPE FEED FINGERS GILDEMEISTER AS16-AS/GS/GM 20 MOD 25



Cod.	Desc.	d	D	L	F	Max	
9258E-2 /RS	Outer Sleeve / Corpo	30.5	30.5	90.0	M28.5X0.75		
RS24/ST	Inner Collet Steel / Inserto Acciaio					22.0	19.0
RS24/SB	Inner Collet Steel Brass / Inserto ottone					21.0	19.0
RS24/SPH	Inner Collet SPH / Inserto SPH					21.0	19.0
RS24/KSB	Inner Collet KSB / Inserto KSB					19.5	18.0
RS24/OXK	Inner Collet OXK / Inserto OXK					21.0	
S24	Wrench / Chiave						

PINZE TIPO HAINBUCH GILDEMEISTER AS / GM 32 - GM 35

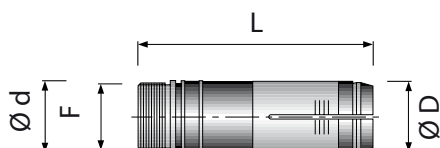
HAINBUCH TYPE COLLETS GILDEMEISTER AS / GM 32 - GM 35



Cod.	Desc.	d	D	L	F	Max	
SG9069BZ	Basic body BZ / Corpo	53.0	69.4	135.0	M48X1.5 Sx/Lh.		
SK6970BZ	Clamping head BZ / Pinza					32.0	28.0
WV02180002	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
MQQ02	Manual changing fixture / Attrezzo manuale cambio pinza						
WV902D0002	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH GILDEMEISTER AS / GM 32 - GM 35

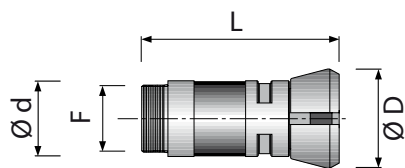
HAINBUCH TYPE FEED FINGERS GILDEMEISTER AS / GM 32 - GM 35



Cod.	Desc.	d	D	L	F	Max	
9316E/RS	Outer Sleeve / Corpo	39.8	40.0	124.0	M38X1.5 Sx/Lh.		
93162H/RS	Outer Sleeve / Corpo	39.8	40.0	124.0	M38X1.5		
RS32/ST	Inner Collet Steel / Inserto Acciaio					32.0	27.0
RS32/SB	Inner Collet Steel Brass / Inserto ottone					32.0	27.0
RS32/SPH	Inner Collet SPH / Inserto SPH					32.0	27.0
RS32KSB	Inner Collet KSB / Inserto KSB					29.5	27.0
RS32/OXK	Inner Collet OXK / Inserto OXK					29.0	
S32	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE SG18 / AG20

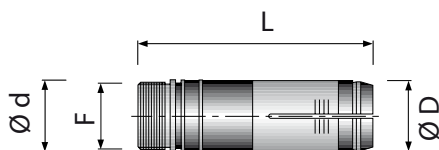
HAINBUCH TYPE COLLETS SCHÜTTE SG18 / AG20



Cod.	Desc.	d	D	L	F	Max	
SG90071H-ZW	Basic body H-ZW / Corpo	32.0	41.8	84.0	M28X1 Sx/Lh.		
SK9071H-ZW	Clamping head H-ZW / Pinza					18.0	15.0
MQQ08	Manual changing fixture / Attrezzo manuale cambio pinza						

CONTROPINZE TIPO HAINBUCH SCHÜTTE SG18 / AG20

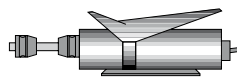
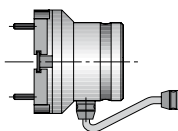
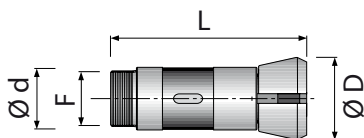
HAINBUCH TYPE FEED FINGERS SCHÜTTE SG18 / AG20



Cod.	Desc.	d	D	L	F	Max	
9255E/RS	Outer Sleeve / Corpo	23.0	25.0	88.0	M23X1.0		
RS16/ST	Inner Collet Steel / Inserto Acciaio					16.0	13.0
RS16/SB	Inner Collet Steel Brass / Inserto ottone					16.0	13.0
RS16/SPH	Inner Collet SPH / Inserto SPH					16.0	13.0
RS16KSB	Inner Collet KSB / Inserto KSB					14.0	13.0
RS16/OXK	Inner Collet OXK / Inserto OXK					14.5	
S16	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE SF25 - SE / AF / SF / SC / SCX 26

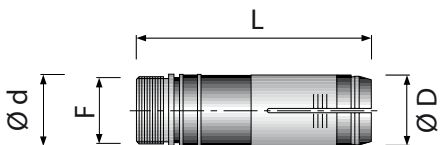
HAINBUCH TYPE COLLETS SCHÜTTE SF25 - SE / AF / SF / SC / SCX 26



Cod.	Desc.	d	D	L	F	Max	
SG9039BZ	Basic body BZ / Corpo	46.0	60.4	120.0	M40X1.5 Sx/Lh.		
SK9039BZ	Clamping head BZ / Pinza					26.0	22.0
WV02160002	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
MQQ01	Manual changing fixture / Attrezzo manuale cambio pinza						
WV902D0002	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH SCHÜTTE SF25 - SE / AF / SF / SC / SCX 26

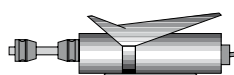
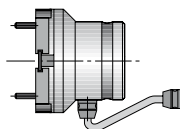
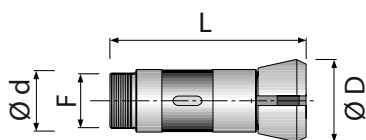
HAINBUCH TYPE FEED FINGERS SCHÜTTE SF25 - SE / AF / SF / SC / SCX 26



Cod.	Desc.	d	D	L	F	Max	
9282E/RS	Outer Sleeve / Corpo	33.0	35.0	118.0	M33X1.5		
RS25/ST	Inner Collet Steel / Inserto Acciaio					25.0	22.0
RS25/SB	Inner Collet Steel Brass / Inserto ottone					25.0	22.0
RS25/SPH	Inner Collet SPH / Inserto SPH					25.0	22.0
RS25/KSB	Inner Collet KSB / Inserto KSB					23.5	21.0
RS25/OXK	Inner Collet OXK / Inserto OXK					24.0	
S25	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE SF / AF 32 - S32 PC

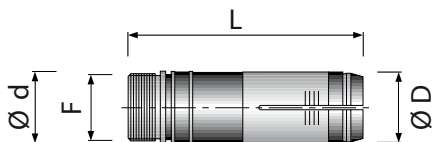
HAINBUCH TYPE COLLETS SCHÜTTE SF / AF 32 - S32 PC



Cod.	Desc.	d	D	L	F	Max	
SG9070BZ	Basic body BZ / Corpo	53.0	69.7	136.0	M47X1.5 Sx/Lh.		
SK6970BZ	Clamping head BZ / Pinza					32.0	28.0
WV02180002	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
MQQ02	Manual changing fixture / Attrezzo manuale cambio pinza						
WV902D0002	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH SCHÜTTE SF / AF 32 - S32 PC

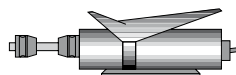
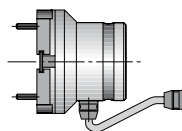
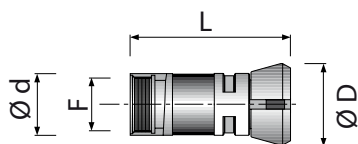
HAINBUCH TYPE FEED FINGERS SCHÜTTE SF / AF 32 - S32 PC



Cod.	Desc.	d	D	L	F	Max	
9319E/RS	Outer Sleeve / Corpo	40.0	42.0	130.0	M38X1.5		
RS32/ST	Inner Collet Steel / Inserto Acciaio					32.0	27.0
RS32/SB	Inner Collet Steel Brass / Inserto ottone					32.0	27.0
RS32/SPH	Inner Collet SPH / Inserto ottone					32.0	27.0
RS32/KSB	Inner Collet KSB / Inserto SPH					29.5	27.0
RS32/OXK	Inner Collet OXK/ Inserto OXK					29.0	
S32	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE S / A 36 PC

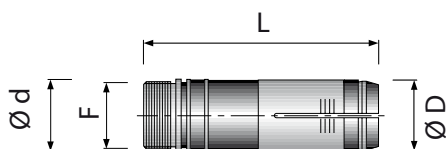
HAINBUCH TYPE COLLETS SCHÜTTE S / A 36 PC



Cod.	Desc.	d	D	L	F	Max	
1105/0004	Basic body ZW / Corpo	56.0	72.2	139.0	M52X1.5 Sx/Lh.		
SBK0096	Clamping head ZW / Pinza					36.0	31.0
WV02280002	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
MQQ06	Manual changing fixture / Attrezzo manuale cambio pinza						
WV902D0002	Pneumatic pressure converter / Convertitore pneumatico di pressione						

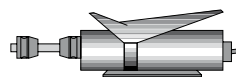
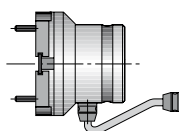
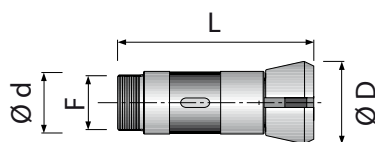
CONTROPINZE TIPO HAINBUCH SCHÜTTE S / A 36 PC

HAINBUCH TYPE FEED FINGERS SCHÜTTE S / A 36 PC



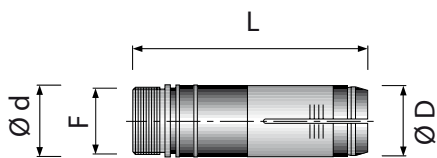
Cod.	Desc.	d	D	L	F	Max	
1106/0001	Outer Sleeve / Corpo	43.8	45.0	136.0	M42X1.5 Sx/Lh.		
RS36/ST	Inner Collet Steel / Inserto Acciaio					34.0	27.0
RS36/SB	Inner Collet Steel Brass / Inserto ottone					34.0	29.0
RS36/SPH	Inner Collet SPH / Inserto SPH					32.0	27.0
RS36/KSB	Inner Collet KSB / Inserto KSB					32.0	27.0
RS36/OXK	Inner Collet OXK / Inserto OXK					35.0	
S36	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE AD40 / SF40 / AF42 / SF 42
HAINBUCH TYPE COLLETS SCHÜTTE AD40 / SF40 / AF42 / SF 42



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
SG9112BZ	Basic body BZ / Corpo	62.9	78.8	157.0	M56X1.5 Sx/Lh.		
SK9112BZ	Clamping head BZ / Pinza					42.0	36.0
WV02180003.00	Hydraulic changing fixture/ Attrezzo idraulico cambio pinza						
MQQ04	Manual changing fixture / Attrezzo manuale cambio pinza						
WV902D0002.00	Pneumatic pressure converter / Convertitore pneumatico di pressione						

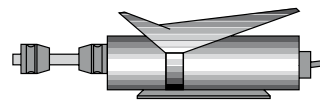
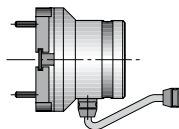
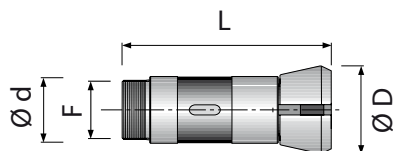
CONTROPINZE TIPO HAINBUCH SCHÜTTE AD40 / SF40 / AF42 / SF 42
HAINBUCH TYPE FEED FINGERS SCHÜTTE AD40 / SF40 / AF42 / SF 42



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
9372E/RS	Outer Sleeve / Corpo	49.0	51.0	140.0	M48X1.5		
RS40/ST	Inner Collet Steel / Inserto Acciaio					40.0	34.0
RS40/SB	Inner Collet Steel Brass / Inserto ottone					40.0	34.0
RS40/SPH	Inner Collet SPH / Inserto SPH					40.0	34.0
RS40/KSB	Inner Collet KSB / Inserto KSB					38.5	34.0
RS40/OXK	Inner Collet OXK / Inserto OXK					38.0	
S40	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE SD50 / SF51 / AF51 / SF51S

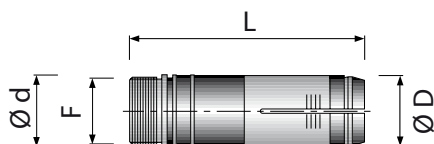
HAINBUCH TYPE COLLETS SCHÜTTE SD50 / SF51 / AF51 / SF51S



Cod.	Desc.	d	D	L	F	Max	
SG9139BZ	Basic body BZ / Corpo	75.0	98.2	187.0	M68X1.5 Sx/Lh.		
SK9139BZ	Clamping head BZ / Pinza					48.0	41.0
WV022A002.00	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
WV902D0002.00	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH SCHÜTTE SD50 / SF51 / AF51 / SF51S

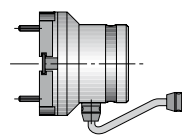
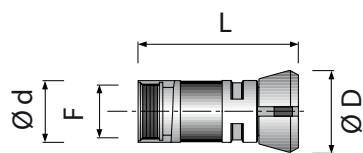
HAINBUCH TYPE FEED FINGERS SCHÜTTE SD50 / SF51 / AF51 / SF51S



Cod.	Desc.	d	D	L	F	Max	
9406E/RS	Outer Sleeve / Corpo	58.0	62.0	178.5	M58X1.5		
RS50/ST	Inner Collet Steel / Inserto Acciaio					48.0	41.0
RS50/SB	Inner Collet Steel Brass / Inserto ottone					48.0	41.0
RS50/SPH	Inner Collet SPH / Inserto SPH					48.0	41.0
RS50/KSB	Inner Collet KSB / Inserto KSB					44.5	39.0
RS50/OXK	Inner Collet OXK / Inserto OXK					46.0	
S50	Wrench / Chiave						

PINZE TIPO HAINBUCH SCHÜTTE S51PC

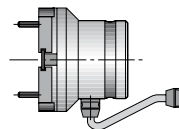
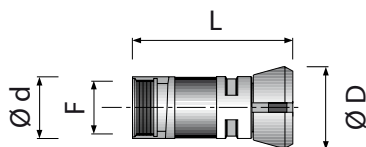
HAINBUCH TYPE COLLETS SCHÜTTE S51PC



Cod.	Desc.	d	D	L	F	Max
1105/0006	Basic body ZW (Cucchi) / Corpo	75.0	98.5	135.5	M70X1.5 Sx/Lh.	●
SP12470005.00	Basic body ZW / Corpo	75.0	98.5	147.5	M68X1.5 Sx/Lh.	●
SP12470004.00	Basic body ZW / Corpo	75.0	98.5	147.5	M68X1.5 Sx/Lh.	●
SBK0098	Clamping head ZW / Pinza					●
WV032A0009.00	Pneumatic pressure converter / Convertitore pneumatico di pressione					●

PINZE TIPO HAINBUCH TORNOS MULTIDECO 26/6

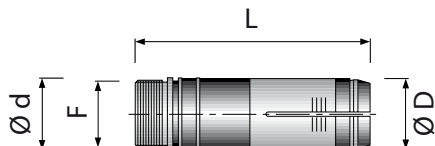
HAINBUCH TYPE COLLETS TORNOS MULTIDECO 26/6



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
SG32ZW	Basic body ZW / Corpo	46.0	61.0	109.5	M42X1 Sx/Lh.		
SK32ZW	Clamping head ZW / Pinza					32.0	27.0
WV02280002.00	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
WV902D0002.00	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH TORNOS MULTIDECO 26/6

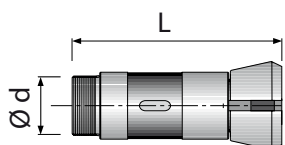
HAINBUCH TYPE FEED FINGERS TORNOS MULTIDECO 26/6



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
9282E/RS	Outer Sleeve / Corpo	33.0	35.0	118.0	M33X1.5		
RS25/ST	Inner Collet Steel / Inserto Acciaio					25.0	22.0
RS25/SB	Inner Collet Steel Brass / Inserto ottone					25.0	22.0
RS25/SPH	Inner Collet SPH / Inserto SPH					25.0	22.0
RS25/KSB	Inner Collet KSB / Inserto KSB					23.5	21.0
RS25/OXK	Inner Collet OXK / Inserto OXK					24.0	
S25	Wrench / Chiave						

PINZE TIPO HAINBUCH INDEX MS16

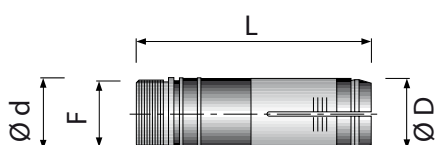
HAINBUCH TYPE COLLETS INDEX MS16



Cod.	Desc.	d	D	L	F	Max	
SG16BZ	Basic body BZ / Corpo			71.0	M32X1		
SK16BZI	Clamping head BZI / Pinza					16.0	13.0
MQQ08	Manual changing fixture / Attrezzo manuale cambio pinza						

CONTROPINZE TIPO HAINBUCH INDEX MS16

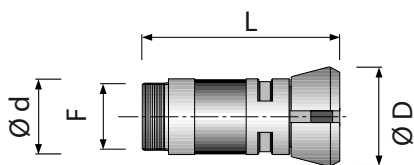
HAINBUCH TYPE FEED FINGERS INDEX MS16



Cod.	Desc.	d	D	L	F	Max	
10188/0004	Outer Sleeve / Corpo	16.0	25.7	99.0	M22X1		
RS12/ST	Inner Collet Steel / Inserto Acciaio					10.0	
RS12/SB	Inner Collet Steel Brass / Inserto ottone					10.0	
RS12/SPH	Inner Collet SPH / Inserto SPH					10.0	
RS12/KSB	Inner Collet KSB / Inserto KSB					10.0	
RS12/OXK	Inner Collet OXK / Inserto OXK					10.0	
S12	Wrench / Chiave						
10189/0002	Key to change the entire RS 12 unit / Chiave per cambiare l'intera unità RS 12						
10188/0003	Outer Sleeve (Ø + HEX 10/13) / Corpo	25.0	25.7	95.0	M22X1		
10188/0002	Outer Sleeve (HEX 4/10) / Corpo	25.0	25.7	95.0	M22X1		
RS20/ST	Inner Collet Steel / Inserto Acciaio					16.0	13.0
RS20/SB	Inner Collet Steel Brass / Inserto ottone					16.0	13.0
RS20/SPH	Inner Collet SPH / Inserto SPH					16.0	13.0
RS20/KSB	Inner Collet KSB / Inserto KSB					16.0	13.0
RS20/OXK	Inner Collet OXK / Inserto OXK					16.0	
S20	Wrench / Chiave						
10189/0001	Key to change the entire RS 20 unit / Chiave per cambiare l'intera unità RS 20						

PINZE TIPO HAINBUCH INDEX MS16 PLUS

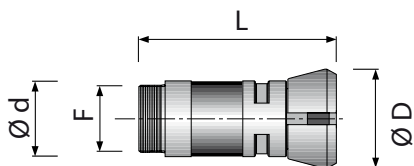
HAINBUCH TYPE COLLETS INDEX MS16 PLUS



Cod.	Desc.	d	D	L	F	Max
10180/0008	Basic body ZW / Corpo			74.0	M32X1	
SK9022ZW	Clamping head ZW / Pinza					22.0
MQ22	Manual changing fixture / Attrezzo manuale cambio pinza					

PINZE TIPO HAINBUCH INDEX MS22

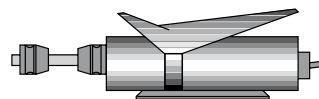
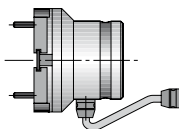
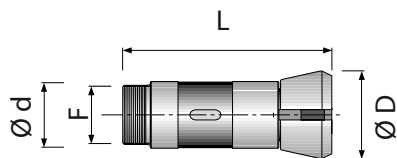
HAINBUCH TYPE COLLETS INDEX MS22



Cod.	Desc.	d	D	L	F	Max
SG9022ZW	Basic body ZW / Corpo	32.8	44.3	103.0	M29X1	
SK9022ZW	Clamping head ZW / Pinza					22.0
MQ22	Manual changing fixture / Attrezzo manuale cambio pinza					

PINZE TIPO HAINBUCH INDEX MS25

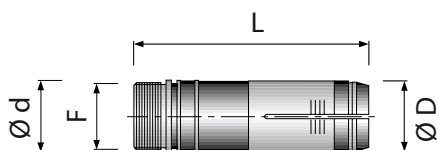
HAINBUCH TYPE COLLETS INDEX MS25



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
SG9039BZ	Basic body BZ / Corpo	46.0	60.4	120.0	M40X1.5 Sx/Lh.		
SK9039BZ	Clamping head BZ / Pinza					26.0	22.0
WV02160002.00	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
WV902D0002.00	Pneumatic pressure converter / Convertitore pneumatico di pressione						
MQQ01	Manual changing fixture / Attrezzo manuale cambio pinza						

CONTROPINZE TIPO HAINBUCH INDEX MS25

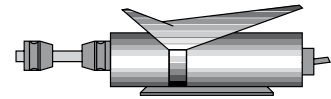
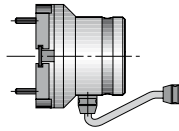
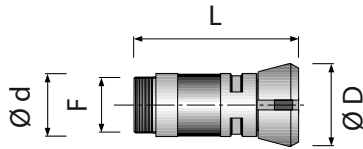
HAINBUCH TYPE FEED FINGERS INDEX MS25



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
9282E/RS	Outer Sleeve / Corpo	33.0	35.0	118.0	M33X1.5		
92821HRSK	Outer Sleeve / Corpo	33.0	35.0	118.0	M33X1.5		
RS25/ST	Inner Collet Steel / Inserto Acciaio					25.0	22.0
RS25/SB	Inner Collet Steel Brass / Inserto ottone					25.0	22.0
RS25/SPH	Inner Collet SPH / Inserto SPH					25.0	22.0
RS25/KSB	Inner Collet KSB / Inserto KSB					23.5	21.0
RS25/OXK	Inner Collet OXK / Inserto OXK					24.0	
S25	Wrench / Chiave						

PINZE TIPO HAINBUCH INDEX MS25

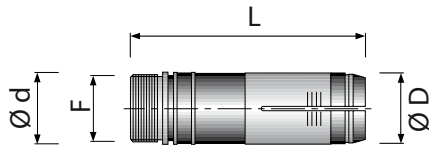
HAINBUCH TYPE COLLETS INDEX MS25



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
SG90395HZW	Basic body ZW / Corpo	46.0	60.4	120.5	M40X1.5 Sx/Lh.		
SK9039ZW	Clamping head ZW / Pinza					30.0	27.0
WV02280002.00	Hydraulic changing fixture / Attrezzo idraulico cambio pinza						
WV902D0002.00	Pneumatic pressure converter / Convertitore pneumatico di pressione						

CONTROPINZE TIPO HAINBUCH INDEX MS25

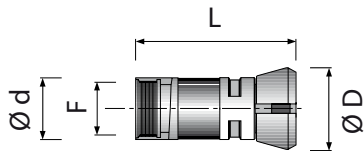
HAINBUCH TYPE FEED FINGERS INDEX MS25



Cod.	Desc.	d	D	L	F	Max	
						●	⬡
92821HRSK	Outer Sleeve / Corpo	33.0	35.0	118.0	M33X1.5		
RS25/ST	Inner Collet Steel / Inserto Acciaio					25.0	22.0
RS25/SB	Inner Collet Steel Brass / Inserto ottone					25.0	22.0
RS25/SPH	Inner Collet SPH / Inserto SPH					25.0	22.0
RS25/KSB	Inner Collet KSB / Inserto KSB					23.5	21.0
RS25/OXK	Inner Collet OXK / Inserto OXK					24.0	
S25	Wrench / Chiave						

PINZE TIPO HAINBUCH INDEX MS32

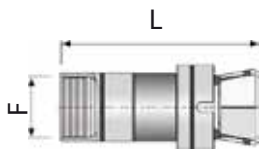
HAINBUCH TYPE COLLETS INDEX MS32



Cod.	Desc.	d	D	L	F	Max	
SG32ZW	Basic body ZW / Corpo	46.0	61.0	109.5	M42X1 Sx/Lh.		
SK32ZW	Clamping head ZW / Pinza					32.0	27.0
PP32	Pneumatic changing fixture / Attrezzo idraulico cambio pinza						
MQQ03	Manual changing fixture / Attrezzo manuale cambio pinza						

PINZE TIPO HAINBUCH INDEX MS40

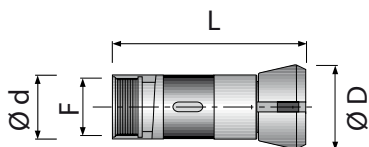
HAINBUCH TYPE COLLETS INDEX MS40



Cod.	Desc.	d	D	L	F	Max	
10180/0007	Basic body / Corpo			122.0	M48X1		
TOP40	Clamping head SE / Pinza					40.0	32.0
MQTOP40	Manual changing fixture / Attrezzo manuale cambio pinza						

PINZE TIPO HAINBUCH INDEX MS52

HAINBUCH TYPE COLLETS INDEX MS52



Cod.	Desc.	d	D	L	F	Max	
1105/0002	Basic body BZI / Corpo		69.0	53.0	M62X1.5		
SK65BZI	Clamping head RD / Pinza					65.0	56.0
MQ65	Manual changing fixture / Attrezzo manuale cambio pinza						



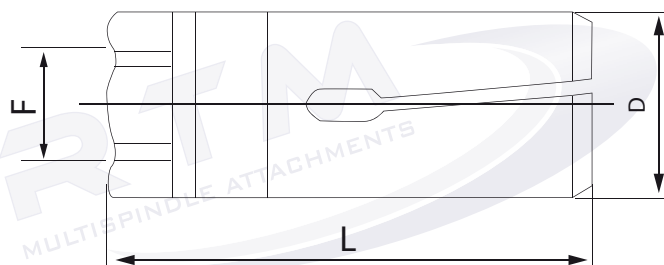
PINZE CARICATORE - BARLOADER COLLETS

PINZE IN ACCIAIO CON FILETTO	PAG.54	STEEL COLLETS WITH THREAD
PINZE IN GOMMA CON FILETTO	PAG.56	RUBBER COLLETS WITH THREAD
PINZE IN ACCIAIO A CAMBIO RAPIDO	PAG.58	STEEL COLLETS CHUCKS
PINZE IN GOMMA A CAMBIO RAPIDO	PAG.60	RUBBER COLLETS CHUCKS



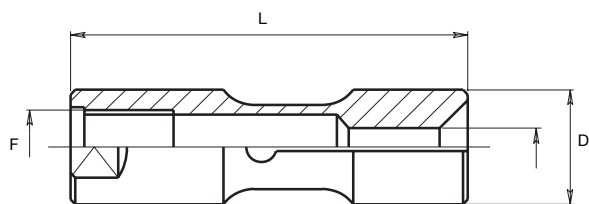
PINZA IN ACCIAIO CON FILETTO SINISTRO

STEEL COLLETS WITH LEFT THREAD



Cod.	Desc.	D	L	F	Max	
					●	⬡
PB20	CUCCHI PB20	20.0	60.0	M10X1 Sx/Lh.	18.0	15.0
PB25	CUCCHI PB25	25.0	60.0	M14X1 Sx/Lh.	23.0	19.0
PB30	CUCCHI PB30	29.0	65.0	M18X1.5 Sx/Lh.	28.0	24.0
PB32	CUCCHI PB32	32.0	65.0	M18X1.5 Sx/Lh.	30.0	26.0
PB35	CUCCHI PB35	35.0	70.0	M18X1.5 Sx/Lh.	33.0	28.0
PB40	CUCCHI PB40	39.0	70.0	M25X1.5 Sx/Lh.	37.0	34.0
PB48	CUCCHI PB48	47.0	70.0	M30X1.5 Sx/Lh.	46.0	38.0
PB60	CUCCHI PB60	59.0	80.0	M30X1.5 Sx/Lh.	55.0	48.0
PB70	CUCCHI PB70	69.5	80.0	M30X1.5 Sx/Lh.	65.0	55.0

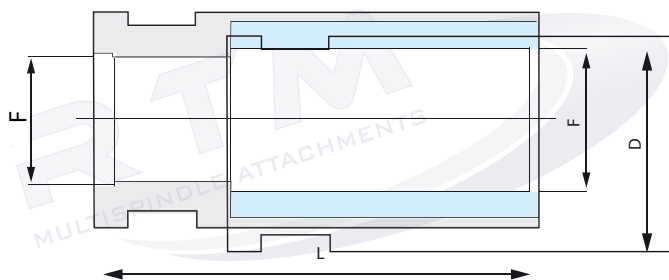
PINZA IN ACCIAIO CON FILETTO DESTRO STEEL COLLETS WITH RIGHT THREAD



Cod.	Desc.	D	L	F	Max	
					●	●
036070	IEMCA	7.00	40.0	5X0.5	7.0	6.0
036100	CUCCHI	10.0	50.0	6X0.75	8.0	7.0
036101	IEMCA	10.0	40.0	6X0.75	8.0	7.0
036120	CUCCHI	12.0	52.0	7X0.75	10.0	8.0
036121	IEMCA	12.0	42.0	7X0.75	10.0	8.0
036140	CUCCHI	14.0	52.0	8X1	12.0	11.0
036150	CUCCHI	15.0	52.0	8X1	12.0	11.0
036151	IEMCA	15.0	42.0	8X1	13.0	11.0
036160	CUCCHI	16.0	52.0	8X1	14.0	12.0
036161	IEMCA	16.0	42.0	8X1	14.0	12.0
036180	CUCCHI	18.0	59.0	10X1	16.0	13.0
036200	CUCCHI - IEMCA	20.0	59.0	10X1	18.0	15.0
036220	CUCCHI - IEMCA	22.0	59.0	10X1	20.0	18.0
036250	IEMCA	25.0	59.0	10X1	23.0	19.0
036251	CUCCHI	25.0	59.0	14X1	23.0	19.0
036300	IEMCA	30.0	65.0	10X1	28.0	24.0
036301	CUCCHI	30.0	65.0	18X1.5	28.0	24.0
036320	IEMCA	32.0	65.0	10X1	30.0	25.0
036400	CUCCHI - IEMCA	40.0	70.0	25X1.5	37.0	32.0
036420	CUCCHI - IEMCA	42.0	70.0	25X1.5	39.0	33.0
036460	CUCCHI - IEMCA	46.0	72.0	25X1.5	42.0	34.0
036600	CUCCHI - IEMCA	60.0	80.0	25X1.5	55.0	48.0
036650	CUCCHI - IEMCA	65.0	80.0	25X1.5	60.0	50.0
036700	CUCCHI - IEMCA	70.0	80.0	25X1.5	65.0	55.0
036750	CUCCHI - IEMCA	75.0	80.0	25X1.5	70.0	60.0

PINZA IN GOMMA CON FILETTO SINISTRO

RUBBER COLLETS WITH LEFT THREAD

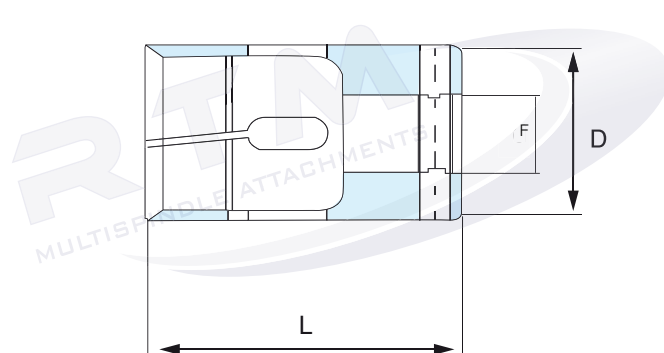


Cod.	Desc.	D	L	F
PCCHP19	PB19	18.5	60.0	M10X1 Left
PCCHP23	PB23	23.0	60.0	M14X1 Left
PCCHP24	PB24	24.0	60.0	M14X1 Left
PCCHP28	PB28	28.0	65.0	M18X1.5 Left
PCCHP29	PB29	29.0	65.0	M18X1.5 Left
PCCHP30	PB30	30.0	65.0	M18X1.5 Left
PCCHP32	PB32	32.0	65.0	M18X1.5 Left
PCCHP35	PB35	35.0	65.0	M18X1.5 Left
PCCHP38	PB38	38.0	70.0	M25X1.5 Left
PCCHP40	PB40	40.0	70.0	M25X1.5 Left
PCCHP42	PB42	42.0	70.0	M25X1.5 Left
PCCHP43	PB43	43.0	70.0	M30X1.5 Left
PCCHP46	PB46	46.0	70.0	M30X1.5 Left
PCCHP48	PB48	48.0	70.0	M30X1.5 Left
PCCHP50	PB50	50.0	70.0	M30X1.5 Left
PCCHP52	PB52	52.0	70.0	M30X1.5 Left
PCCHP56	PB56	56.0	80.0	M30X1.5 Left
PCCHP60	PB60	60.0	80.0	M30X1.5 Left
PCCHP65	PB65	65.0	80.0	M30X1.5 Left
PCCHP68	PB68	68.0	80.0	M30X1.5 Left
PCCHP72	PB72	72.0	80.0	M30X1.5 Left
PCCHP80	PB80	80.0	80.0	M30X1.5 Left

PINZA IN GOMMA CON FILETTO DESTRO
RUBBER COLLETS WITH RIGHT THREAD

Cod.	D	L	F
PCIMM07.5	7.05	40.0	M5X0.5
PCIMM10	10.0	40.0	M6X0.75
PCCHM10	10.0	52.0	M6X0.75
PCIMM12	12.0	42.0	M7X0.75
PCCHM12	12.0	52.0	M7X0.75
PCIMM15	15.0	42.0	M8X1
PCCHM15	15.0	52.0	M8X1
PCIMM18	18.0	42.0	M8X1
PCCHM20	19.0	60.0	M10X1
PCIMM25	25.0	60.0	M10X1
PCIMM30	30.0	65.0	M10X1
PCCHM30	30.0	65.0	M18X1.5
PCIMM32	32.0	65.0	M10X1
PCIMM35	35.0	65.0	M17X1
PCCHM35	35.0	65.0	M18X1.5
PCCHM40	40.0	70.0	M25X1.5
PCIMM42	42.0	70.0	M25X1.5
PCIMM45	45.0	80.0	M25X1.5
PCIMM50	50.0	80.0	M25X1.5
PCCHM50	50.0	80.0	M30X1.5
PCIMM55	55.0	80.0	M25X1.5
PCCHM55	55.0	80.0	M30X1.5
PCIMM60	60.0	80.0	M25X1.5
PCCHM60	60.0	80.0	M30X1.5
PCIMM65	65.0	80.0	M25X1.5
PCCHM65	65.0	80.0	M30X1.5
PCIMM68	68.0	80.0	M25X1.5
PCIMM70	70.0	80.0	M30X1.5
PCCHM70	70.0	80.0	M25X1.5
PCIMM72	72.0	80.0	M25X1.5

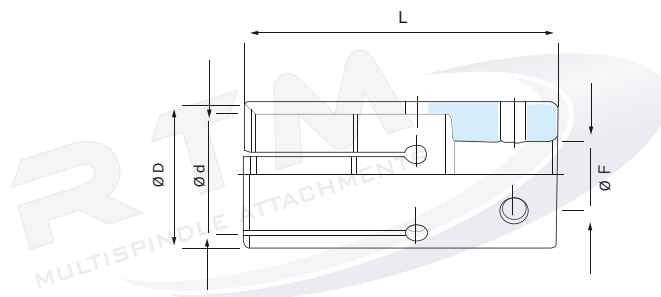
PINZA IN ACCIAIO A CAMBIO RAPIDO STEEL COLLETS CHUCKS



Cod.	D	L	F	Max	
				●	⬡
212E	12.0	40.0	8H7	11.0	9.0
203E	15.0	40.0	11H7	13.0	10.0
SHK16	16.0	40.0	11H7	15.0	12.0
218E	18.0	40.0	11H7	16.0	13.0
225E	20.0	65.0	14H7	19.0	16.0
222E	25.0	65.0	20H7	23.0	19.0
227E	28.0	65.0	20H7	25.0	21.0
SHK32	32.0	65.0	20H7	29.0	25.0
SHK36	36.0	65.0	20H7	30.0	26.0

PINZA IN ACCIAIO CAMBIO RAPIDO

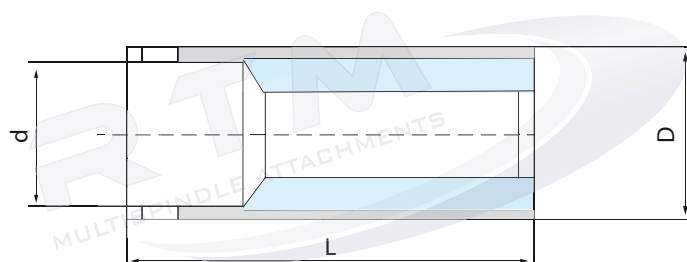
TURBO BAR FEED COLLETS



Cod.	Channel (mm)	D	F	L	Ø Max
SHT 25	25 D	25	20 H7	90	22
SHT 28	29 D	29	20 H7	90	
SHT 30	30 D	30	20 H7	90	28
SHT 32	32 D	32	20 H7	90	30
SHT 34	34 D	34	20 H7	90	
SHT 36	36 D	36	20 H7	90	34
SHT 38	38 D	38	20 H7	90	
SHT 40	40 D	40	20 H7	90	36
SHT 42	42 D	42	20 H7	90	40,5
SHT 45	45 D	45	20 H7	90	42
SHT 50	50 D	50	20 H7	90	48
SHT 54	54 D	54	20 H7	90	
SHT 58	58 D	58	20 H7	90	
SHT 60	60 D	60	20 H7	90	58
SHT 65	65 D	65	20 H7	90	62
SHT 80	80 D	80	35 H7	90	72
SHT 90	90 D	90	35 H7	90	80
SHT 100	100 D	100	35 H7	110	90

PINZA IN GOMMA CAMBIO RAPIDO

RUBBER COLLETS CHUCKS



Cod.	D	L	d
PCIMFT12	12.0	50.0	8.0
PCIMFT15	15.0	80.0	11.0
PCIMFT18	18.0	50.0	11.0
PCIMFT20	20.0	65.0	14.0
PCIMFT21	21.0	72.0	14.0
PCIMFT25	25.0	72.0	20.0
PCIMFT29	29.0	72.0	20.0
PCIMFT32	32.0	72.0	20.0
PCIMFT36	36.0	72.0	20.0
PCIMFT42	42.0	72.0	20.0
PCIMFT45	45.0	72.0	20.0



UTENSILI - TOOLS

LAME DA TAGLIO TIPO CHURCHILL	PAG. 62	CUTTING BLADES CHURCHILL TYPE
FRESAFILETTI	PAG. 65	THREAD MILLING CUTTERS
CAMME	PAG. 73	CAMS
MOZZI / INSERTI	PAG. 73	TOOLHUBS / INSERTS
UTENSILI DIAMETAL	PAG. 79	DIAMETAL TOOLS
GRUPPI ROTANTI	PAG. 85	REVOLVING ENDS
BOCCOLE DI CENTRAGGIO	PAG. 85	CENTERING BUSHES
LEVETTE APERTURA / CHISURA PINZA	PAG. 91	CHUCK LEVERS
PORTA UTENSILI	PAG. 101	TOOLHOLDERS

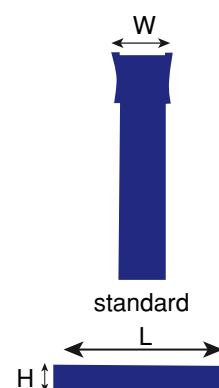
LAME DA TAGLIO TIPO CHURCHILL IN HSS

HSS BLADES CHURCHILL TYPE

LAME HSS PROFILO STANDARD

HSS BLADES STANDARD PROFILE

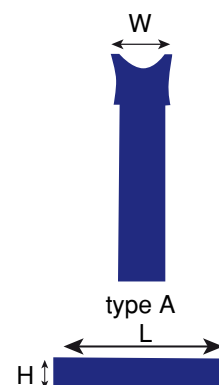
Cod.	W(mm)	H (mm)	L (mm)
PM1N	1.0	12	90
PM1	1.6	12	115
PM2N	2.0	12	115
PM2	2.5	12	115
PM3S	3.0	12	115
PM3N1	1.0	17	125
PM3N1.6	1.6	17	125
PM3N2	2.0	17	125
PM3N	2.5	17	125
PM3	3.0	17	125
PM4	4.0	17	125
PM5S	5.0	17	125
PM5X2.5	2.5	22	150
PM5X	3.2	22	150
PM5N	4.0	22	150
PM5	5.0	22	150
PM8X	3.2	28	165
PM8N	4.0	28	165
PM8	5.0	28	165



LAME HSS PROFILO TIPO A

HSS BLADES TYPE A

Cod.	W(mm)	H (mm)	L (mm)
PM1N Mode A	1.0	12	90
PM1 Mode A	1.6	12	115
PM2N Mode A	2.0	12	115
PM2 Mode A	2.5	12	115
PM3S Mode A	3.0	12	115
PM3N1 Mode A	1.0	17	125
PM3N1.6 Mode A	1.6	17	125
PM3N2 Mode A	2.0	17	125
PM3N Mode A	2.5	17	125
PM3 Mode A	3.0	17	125
PM4 Mode A	4.0	17	125
PM5X 2.5 Mode A	2.5	22	150
PM5X Mode A	3.2	22	150
PM5N Mode A	4.0	22	150
PM8X Mode A	3.2	28	165
PM8N Mode A	4.0	28	165
PM8 Mode A	5.0	28	165



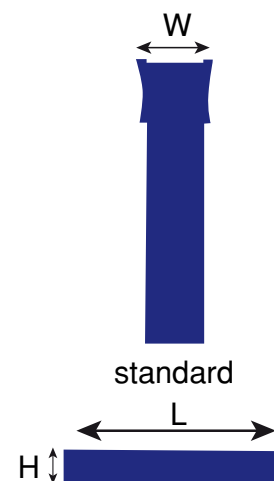
LAME DA TAGLIO TIPO CHURCHILL IN WIDIA

WIDIA BLADES CHURCHILL TYPE

LAME WIDIA PROFILO STANDARD

WIDIA BLADES STANDARD PROFILE

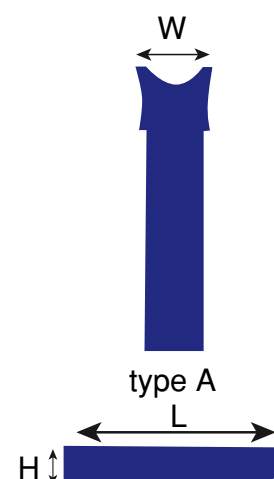
Cod.	W(mm)	H (mm)	L (mm)
PM1N VHM1	1.0	12	90
PM1 VHM1	1.6	12	115
PM2N VHM1	2.0	12	115
PM2 VHM1	2.5	12	115
PM3S VHM1	3.0	12	115
PM3N1 VHM1	1.0	17	125
PM3N1.5 VHM1	1.5	17	125
PM3N2 VHM1	2.0	17	125
PM3N VHM1	2.5	17	125
PM3 VHM1	3.0	17	125
PM4 VHM1	4.0	17	125



LAME WIDIA PROFILO TIPO A

WIDIA BLADES TYPE A

Cod.	W(mm)	H (mm)	L (mm)
PM1 VHM1 Mode A	1.6	12	115
PM2N VHM1 Mode A	2.0	12	115
PM2 VHM1 Mode A	2.5	12	115
PM3S VHM1 Mode A	3.0	12	115
PM3N1.5 VHM1 Mode A	1.5	17	125
PM3N2 VHM1 Mode A	2.0	17	125
PM3N VHM1 Mode A	2.5	17	125
PM3 VHM1 Mode A	3.0	17	125
PM4 VHM1 Mode A	4.0	17	125



RIVESTIMENTI COATING

Cod.	Rivestimento / Coating
CODICE LAMA + TIN	TIN



Cod.	Rivestimento / Coating	
CODICE LAMA + TCN	TCN	PM3N1.6TCN



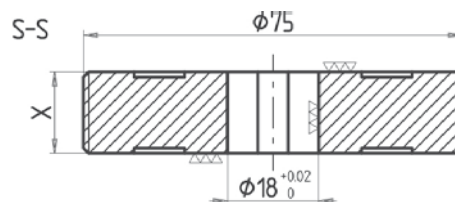


FRESAFILETTI - THREAD MILLING CUTTERS

FRESAFILETTI DIAM. 75	PAG. 66	THREAD MILLING CUTTERS DIAM 75
FRESAFILETTI DIAM. 86	PAG. 68	THREAD MILLING CUTTERS DIAM 86
FRESAFILETTI DIAM. 96	PAG. 70	THREAD MILLING CUTTERS DIAM 96



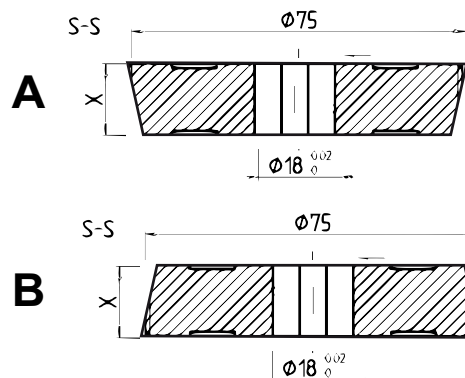
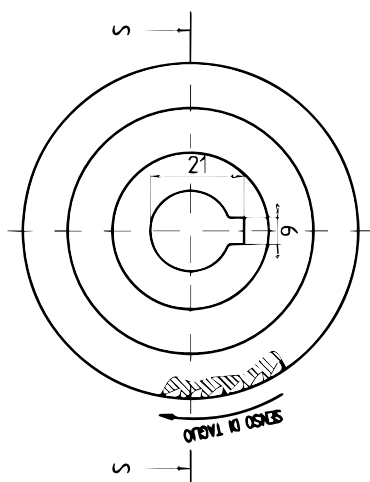
THREAD MILLING CUTTERS DIAM 75



PASSI GAS / GAS STEPS	Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)
	FF.TUR7-430	75	8	14F"
	FF.TUR7-435	75	10	14F"
	FF.TUR7-440	75	12	14F"
	FF.TUR7-455	75	14	14F"
	FF.TUR7-465	75	16	14F"
	FF.TUR7-620	75	8	19F"
	FF.TUR7-625	75	10	19F"
	FF.TUR7-630	75	12	19F"
	FF.TUR7-640	75	14	19F"
	FF.TUR7-650	75	16	19F"
	FF.TUR7-820	75	8	28F"
	FF.TUR7-835	75	10	28F"
FF.TUR7-840	75	12	28F"	

FRESAFILETTI DIAMETRO 75

THREAD MILLING CUTTERS DIAM 75

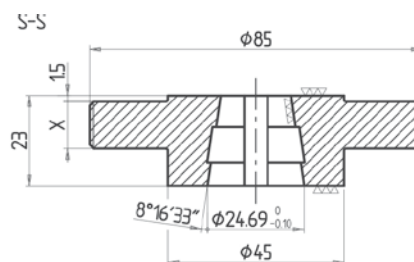


PASSI GAS CONICI / CONYCAL GAS STEPS	Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)	CONICITÀ	TIPO
	FF.TUR7-470	75	16	14F''	6.25%	A
	FF.TUR7-477	75	18	14F''	6.25%	A
	FF.TUR7-635	75	12	19F''	6.25%	A
	FF.TUR7-645	75	14	19F''	6.25%	A
	FF.TUR7-825	75	8	28F''	6.25%	A
	FF.TUR7-836	75	10	28F''	6.25%	A



FRESAFILETTI DIAM.86

THREAD MILLING CUTTERS DIAM 86



PASSI METRICI / METRIC STEPS

Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)
FF.GIL8-180	86	8	0.8
FF.GIL8-185	86	10	0.8
FF.GIL8-215	86	6	1
FF.GIL8-220	86	8	1
FF.GIL8-225	86	10	1
FF.GIL8-235	86	12	1
FF.GIL8-240	86	14	1
FF.GIL8-245	86	16	1
FF.GIL8-280	86	8	1.25
FF.GIL8-285	86	10	1.25
FF.GIL8-290	86	12	1.25
FF.GIL8-295	86	14	1.25
FF.GIL8-300	86	16	1.25
FF.GIL8-320	86	8	1.5
FF.GIL8-325	86	10	1.5
FF.GIL8-335	86	12	1.5
FF.GIL8-340	86	14	1.5
FF.GIL8-345	86	16	1.5

PASSI GAS / GAS STEPS

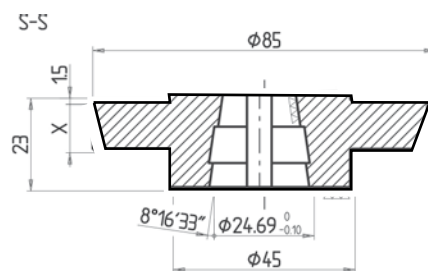
Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)
FF.GIL8-480	86	8	14F"
FF.GIL8-485	86	10	14F"
FF.GIL8-490	86	12	14F"
FF.GIL8-500	86	14	14F"
FF.GIL8-510	86	16	14F"
FF.GIL8-565	86	8	19F"
FF.GIL8-575	86	10	19F"
FF.GIL8-590	86	12	19F"
FF.GIL8-600	86	14	19F"
FF.GIL8-605	86	16	19F"
FF.GIL8-750	86	8	28F"
FF.GIL8-754	86	10	28F"
FF.GIL8-760	86	12	28F"

FRESAFILETTI DIAM.86

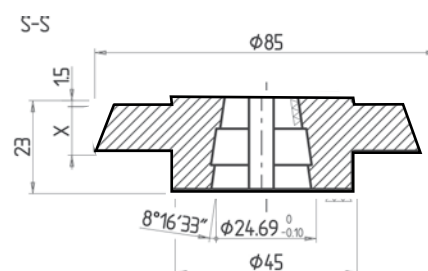
THREAD MILLING CUTTERS DIAM 86



A



B



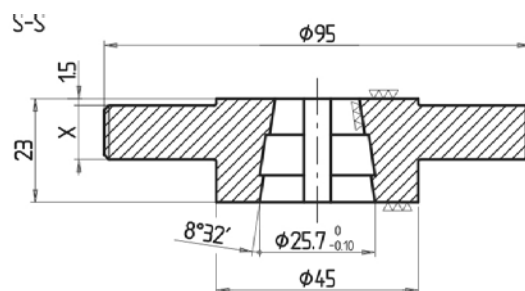
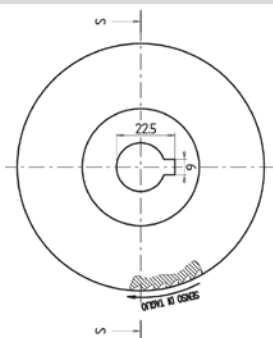
PASSI GAS CONICI / CONICAL GAS STEPS

Cod.	Ø (mm)	X (mm)	PASSO	CONICITÀ	TIPO
FF.GIL8-512	86	16	14F"	6.25%	A
FF.GIL8-518	86	18	14F"	6.25%	A
FF.GIL8-595	86	12	19F"	6.25%	A
FF.GIL8-595X	86	12	19F"	6.25%	B
FF.GIL8-602	86	14	19F"	6.25%	A
FF.GIL8-750T	86	8	28F"	6.25%	A
FF.GIL8-755	86	10	28F"	6.25%	A



FRESAFILETTI DIAMETRO 96

THREAD MILLING CUTTERS DIAM 96



PASSI METRICI / METRIC STEPS

Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)
FF.GIL9-117	96	8	0.8
FF.GIL9-117G	96	10	0.8
FF.GIL9-125	96	8	1
FF.GIL9-130	96	10	1
FF.GIL9-135	96	12	1
FF.GIL9-140	96	14	1
FF.GIL9-145	96	16	1
FF.GIL9-170	96	8	1.25
FF.GIL9-175	96	10	1.25
FF.GIL9-185	96	12	1.25
FF.GIL9-190	96	14	1.25
FF.GIL9-195	96	16	1.25
FF.GIL9-220	96	8	1.5
FF.GIL9-225	96	10	1.5
FF.GIL9-230	96	12	1.5
FF.GIL9-235	96	14	1.5
FF.GIL9-240	96	16	1.5

PASSI GAS / GAS STEPS

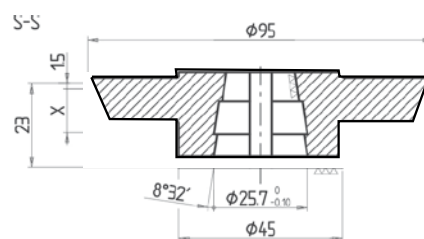
Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)
FF.GIL9-380	96	8	14F"
FF.GIL9-390	96	10	14F"
FF.GIL9-400	96	12	14F"
FF.GIL9-405	96	14	14F"
FF.GIL9-425	96	16	14F"
FF.GIL9-520	96	8	19F"
FF.GIL9-525	96	10	19F"
FF.GIL9-540	96	12	19F"
FF.GIL9-555	96	14	19F"
FF.GIL9-560	96	16	19F"
FF.GIL9-700	96	8	28F"
FF.GIL9-703	96	10	28F"
FF.GIL9-709	96	12	28F"

FRESAFILETTI DIAMETRO 96

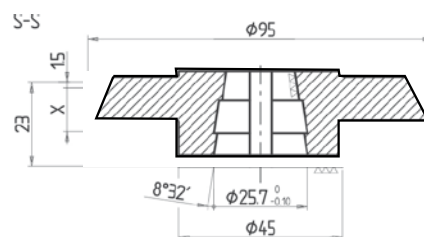
THREAD MILLING CUTTERS DIAM 96



A



B



PASSI GAS CONICI / CONYCAL GAS STEPS

Cod.	Ø (mm)	X (mm)	PASSO/STEP (mm)	CONICITÀ	TIPO
FF.GIL9-421P	96	16	14F"	6.25%	A
FF.GIL9-431	96	18	14F"	6.25%	A
FF.GIL9-545	96	12	19F"	6.25%	A
FF.GIL9-556	96	14	19F"	6.25%	A
FF.GIL9-701	96	8	28F"	6.25%	A
FF.GIL9-705	96	10	28F"	6.25%	A



CAMME - CAMS

CAMME GILDEMEISTER AS16 / AS20 / GS20 / GM20	PAG. 74	GILDEMEISTER AS16 / AS20 / GS20 / GM20 CAMS
CAMME GILDEMEISTER GM32 / GM35 / GM42	PAG. 76	GILDEMEISTER GM32 / GM35 / GM42 CAMS
CAMME MORI SAY 6/25 - 32 - 42 - 8/32 - 42	PAG. 77	MORI SAY 6/25 - 32 - 42 - 8/32 - 42 CAMS

MOZZI E INSERTI PER POLIGONARE POLYGONAL TOOL HUBS - INSERTS

MOZZI PER POLIGONARE	PAG. 78	POLYGONAL TOOL HUBS
INSERTI PER POLIGONARE	PAG. 78	POLYGONAL INSERTS



CAMME GILDEMEISTER AS16/AS20/GS20/GM20

GILDEMEISTER AS16/AS20/GS20/GM20 CAMS

RADIALI

RADIAL CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
08.29.111	0	147°
08.29.117	1.5	165°
08.29.105	3	165°
08.29.106	6	165°
08.29.107	12	165°
16.29.301	12	165°
08.29.104	0	198°
08.29.118	1.5	198°
08.29.101	3	198°
08.29.109	3	198°
08.29.102	6	198°
08.29.110	6	198°
08.29.103	12	198°



FRONTALI

FRONTAL CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
16.29.401	0	162°
16.29.407	0	162°
16.29.402	2.5	162°
16.29.403	5	162°
16.29.404	10	162°
16.29.405	12	162°
16.29.406	17	162°
08.29.205	0	189°
08.29.201	2.5	189°
08.29.202	5	189°
08.29.203	10	189°
08.29.204	20	189°
16.29.408	27	189°



ASSIALI
AXIAL CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
16.29.207	2.5	156°
16.29.206	5	156°
16.29.202	10	156°
16.29.205	14	156°
16.29.201	20	156°
16.29.204	28	156°
16.29.203	40	156°
08.29.607	2.5	189°
08.29.606	5	189°
08.29.602	10	189°
08.29.605	14	189°
08.29.601	20	189°
08.29.604	28	189°
08.29.603	40	189°



SUPPORTO CENTRALE
CENTRAL SUPPORT CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
15.29.303	0	201°
15.29.302	0	201°
15.29.301	0	201°



RADIALI E FRONTALI
RADIAL AND FRONTAL CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
37.29.101	0	171°
37.29.102	2.5	165°
37.29.103	5	165°
37.29.104	10	165°
37.29.105	15	165°
37.29.106	20	165°
37.29.107	25	165°
37.29.108	32	165°
37.29.109	40	165°

ASSIALI
AXIAL CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
37.32.102	60	159°

SUPPORTO CENTRALE
CENTRAL SUPPORT CAMS

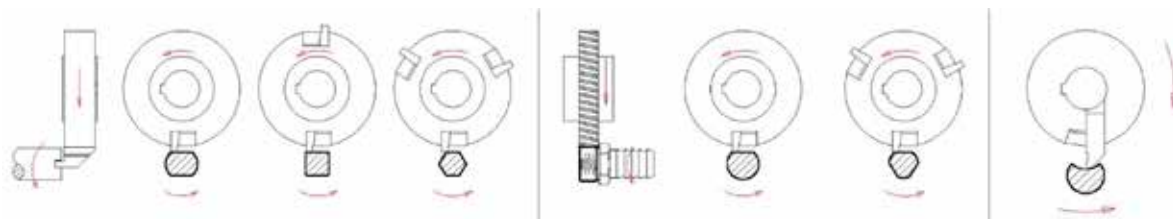
Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
37.33.102	0	171°
37.33.103	3	165°
37.33.104	10	165°
37.33.105	20	165°
37.33.106	40	165°

RADIALI E FRONTALI
RADIAL AND FRONTAL CAMS

Cod.	CORSA NOMINALE / STROKE	ARCO DI LAVORO / WORKING °
PA1 251 01	0	150°
PA1 251 02	0	120°
PA1 252 01	1	150°
PA1 253 01	1.6	150°
PA1 254 01	2.5	150°
PA1 255 01	4	150°
PA1 256 01	6.3	150°
PA1 256 03	6.3	120°
PA1 257 01	10	150°
PA1 258 01	12	150°
PA1 259 01	16	150°
PA1 260 01	20	150°
PA1 261 01	25	150°
PA1 262 01	32	150°
PA1 263 01	40	150°
PA1 264 01	46	150°

MOZZI - INSERTI PER POLIGONARE POLYGONAL TOOL HUBS - INSERTS

MOZZI PER POLIGONARE POLYGONAL TOOL HUBS

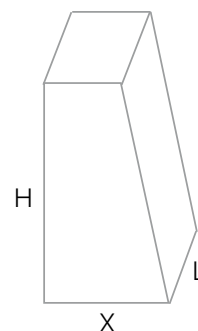


Cod.	ØA	Ht	F	C	α	Z	GR
	70	15	15	4	8°	16'33"	Gr.0
M50 013	75		18	6	-	3+1	-
M50 036	75		18	6	-	4	-
M50 540	86	21	24.69	6	8°16'33"	3+1	Gr.1
M50 019	86	21	24.69	6	8°16'33"	3+1	Gr.1
M50 118	86	21	24.69	6	8°16'33"	4	Gr.1
M50 016	96	21	26	6	8°32'	3+1	Gr.3
M50 031	96	21	26	6	8°32'	4	Gr.3



INSERTI PER POLIGONARE POLYGONAL INSERTS

Cod.	H	L	X
18X06X06	18	6	6
18X08X06	18	8	6
18X10X06	18	10	6
18X12X06	18	12	6
18X14X06	18	14	6
18X16X06	18	16	6





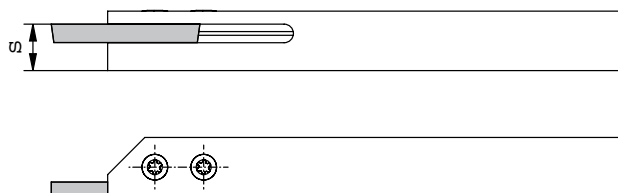
UTENSILI DIAMETAL - DIAMETAL TOOLS

UTENSILI DIADEC	PAG. 80	DIADEC TOOLS
UTENSILI TOPDEC	PAG. 82	TOPDEC TOOLS
UTENSILI TURNDEC	PAG. 83	TURNDEC TOOLS

DIAMETAL
Success with precision

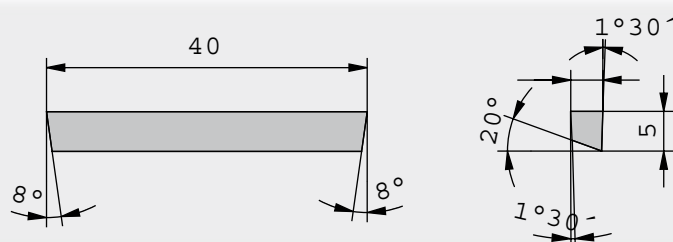


PORTAUTENSILI DI PRECISIONE PER LAME 5 mm
PRECISION TOOLHOLDERS 5 mm



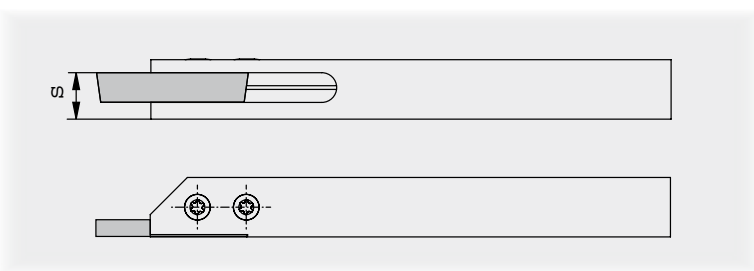
Cod.	TIPO	DIMENSIONI	H LAMA	H PUNTA S
201 034	L	7x7x110	5	6
201 036	L	8x8x110	5	6.5
201 038	L	10x10x120	5	7.5
201 040	L	12x12x120	5	8.5
201 042	L	14x14x120	5	10.5
201 035	R	7x7x110	5	6
201 037	R	8x8x110	5	6.5
201 039	R	10x10x120	5	7.5
201 041	R	12x12x120	5	8.5
201 043	R	14x14x120	5	10.5

LAME PER TRONCATURA 5mm
CUTTING BLADES 5 mm



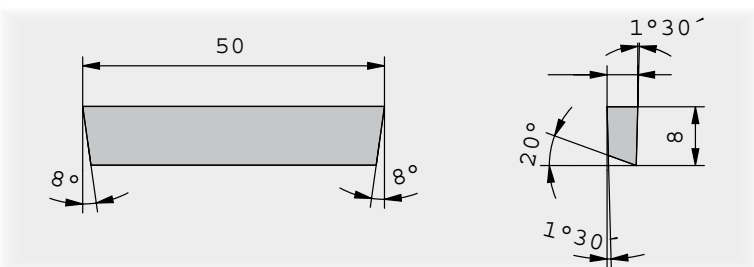
Dim.	Codice K10/20	Codice MG10	Codice HSS
1.0 x 5 x 40	201 108	212 084	211 652
1.5 x 5 x 40	201 112	212 085	207 064
2.0 x 5 x 40	201 116	208 447	207 605
2.5 x 5 x 40	201 120	212 086	207 606
3.0 x 5 x 40	201 126	212 087	207 607
3.5 x 5 x 40	201 130	212 088	212 860

PORTAUTENSILI DI PRECISIONE PER LAME 8 mm
PRECISION TOOLHOLDERS 8 mm



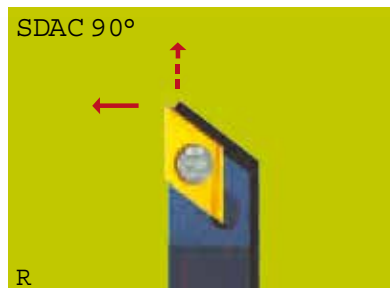
Cod.	TIPO	DIMENSIONI	H LAMA	H PUNTA S
220 797	L	16 x 16 x 140	8	12.5
220 798	L	20 x 20 x 140	8	16
220 799	R	16 x 16 x 140	8	12.5
220 800	R	20 x 20 x 140	8	16

LAME PER TRONCATURA 8mm
CUTTING BLADES 8 mm



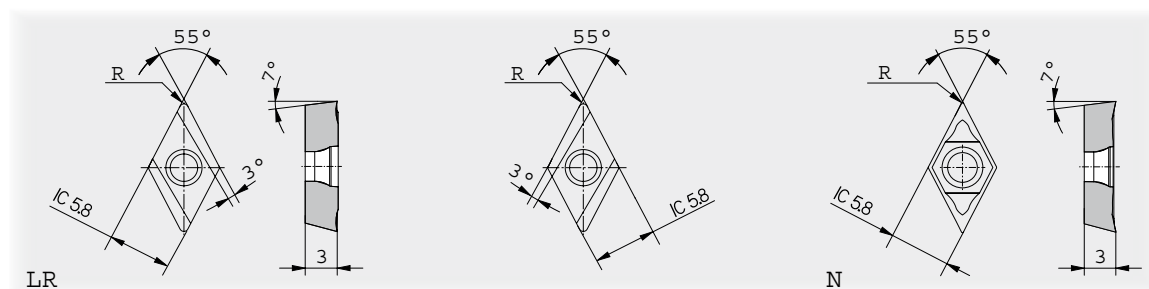
Dimensioni	Codice MG10
1.5 x 8 x 50	302 175
2.0 x 8 x 50	222 706
3.0 x 8 x 50	220 804
4.0 x 8 x 50	220 805

PORTAUTENSILI DI PRECISIONE
PRECISION TOOLHOLDERS



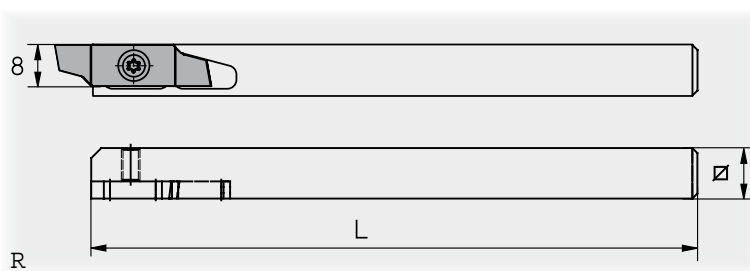
Cod.	TIPO	DIMENSIONI
234 238	L	8 x 8 x 120
234 239	L	10 x 10 x 120
234 240	L	12 x 12 x 120
234 241	L	16 x 16 x 120
234 242	R	8 x 8 x 120
234 243	R	10 x 10 x 120
234 244	R	12 x 12 x 120
234 245	R	16 x 16 x 120

PLACCHETTE
INSERTS



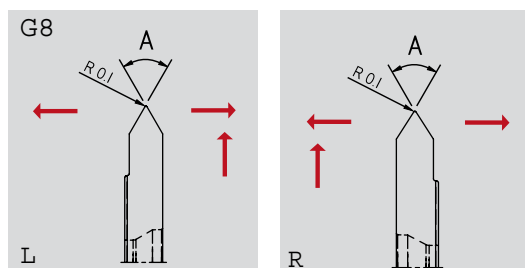
Cod. M10/30 D20	DIMENSIONI	RAGGIO
	070301 FL	0.1
234 224	070302 FL	0.2
234 225	070304 FL	0.4
234 220	070301 FL	0.1
234 221	070302 FL	0.2
234 222	070304 FL	0.4

PORTAUTENSILI DI PRECISIONE
PRECISION TOOLHOLDERS



Cod.	TIPO	DIMENSIONI
374 662	L	10 x 10 x 120
374 663	L	12 x 12 x 120
374 664	L	16 x 16 x 120
383 910	L	20 x 20 x 120
374 665	R	10 x 10 x 120
374 666	R	12 x 12 x 120
374 667	R	16 x 16 x 120 383
790	R	20 x 20 x 120

PLACCHETTE RIVESTITE IN D60
INSERTS D60 COATED



Cod. M10/30 D20	DIMENSIONI	RAGGIO
RLG8v	L	55°
374 687	L	60°
374 706	R	55°
374 705	R	60°



GRUPPI ROTANTI E BOCCOLE DI CENTRAGGIO REVOLVING ENDS AND CENTERING BUSHINGS

GRUPPI ROTANTI PER CUCCHI	PAG. 86	CUCCHI REVOLVING ENDS
GRUPPI ROTANTI PER IEMCA	PAG. 87	IEMCA REVOLVING ENDS
BOCCOLE DI CENTRAGGIO PER IEMCA	PAG. 88	IEMCA CENTERING BUSHINGS

GRUPPI ROTANTI PER CARICATORI CUCCHI

REVOLVING ENDS FOR CUCCHI

GRUPPI ROTANTI PER CARICATORI CUCCHI CON FILETTO DESTRO

RIGHT HAND REVOLVING ENDS FOR CUCCHI

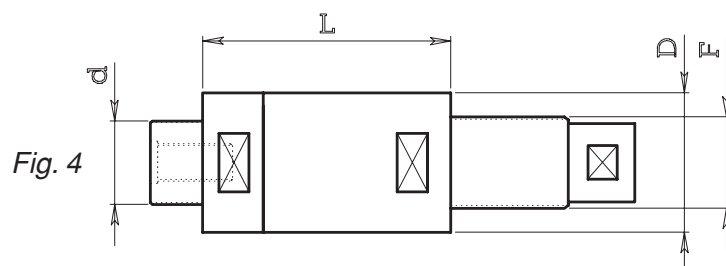
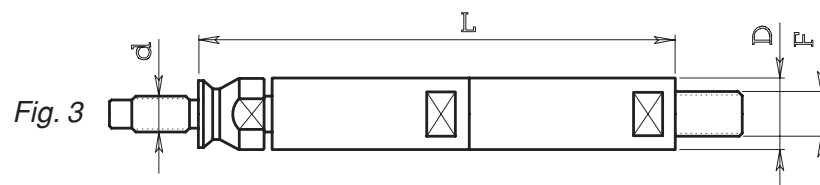
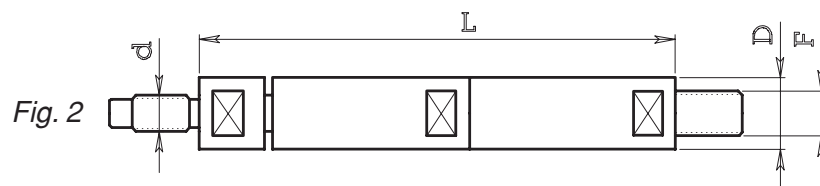
Cod.	D	L	F	d	Fig.
517.010	10	107	7x1	6x0.75	2
517.012	12	107	8x1.25	7x.075	2
517.014	14	107	10x1.5	8x1	2
517.016	16	107	10x1.5	8x1	2
517.019	19	118	12x1.75	10x1	2
517.025	25	118	20x1.5	14x1	2
517.030	30	123	24x1.5	18x1.5	2
517.040	40	61	28x1.5	25x1.5	4

GRUPPI ROTANTI PER CARICATORI CUCCHI CON FILETTO SINISTRO

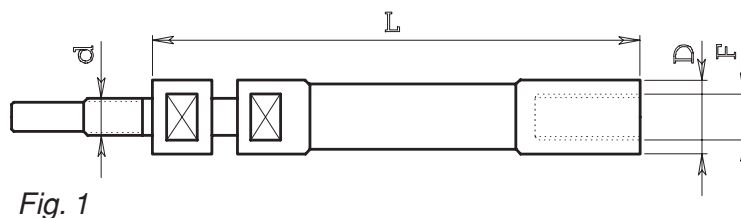
LEFT HAND REVOLVING ENDS FOR CUCCHI

Cod.	D	L	F	d	Fig.
517.120	19	100	17x1	Sx 10x1 Sx/Lh	2
517.120P	19	100	17x1 Sx/Lh	14x1.5 Sx/Lh	2
517.120S	19	105	17x1 Sx/Lh	10x1 Sx/Lh	3
517.125	24	100	20x1.5 Sx/Lh	14x1 Sx/Lh	2
517.125P	24	100	20x1.5 Sx/Lh	20x1.5 Sx/Lh	2
517.125S	24	105	20x1.5 Sx/Lh	14x1 Sx/Lh	3
517.130	29.3	100	26x1.5 Sx/Lh	18x1.5 Sx/Lh	2
517.130S	29.3	100	26x1.5 Sx/Lh	18x1.5 Sx/Lh	3
517.130P	29.3	100	26x1.5 Sx/Lh	26x1.5 Sx/Lh	2
517.135	35	100	30x1.5 Sx/Lh	18x1.5 Sx/Lh	2
517.135P	35	100	30x1.5 Sx/Lh	30x1.5 Sx/Lh	2
517.138	38	83	30x1.5 Sx/Lh	25x1.5 Sx/Lh	2
517.138P	38	83	30x1.5 Sx/Lh	30x1.5 Sx/Lh	2
517.145	45	100	36x1.5 Sx/Lh	30x1.5 Sx/Lh	2
517.145P	45	100	36x1.5 Sx/Lh	36x1.5 Sx/Lh	2
517.148	48	100	36x1.5 Sx/Lh	30x1.5 Sx/Lh	2
517.148P	48	100	36x1.5 Sx/Lh	36x1.5 Sx/Lh	2
517.160	60	113	50x1.5 Sx/Lh	30x1.5 Sx/Lh	2

GRUPPI ROTANTI PER CARICATORI REVOLVING ENDS



GRUPPI ROTANTI PER CARICATORI IEMCA CON FILETTO DESTRO RIGHT HAND REVOLVING ENDS FOR IEMCA

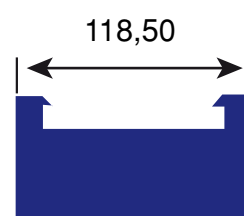
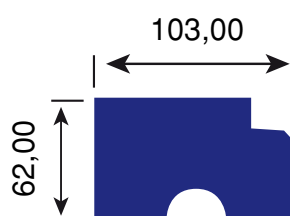
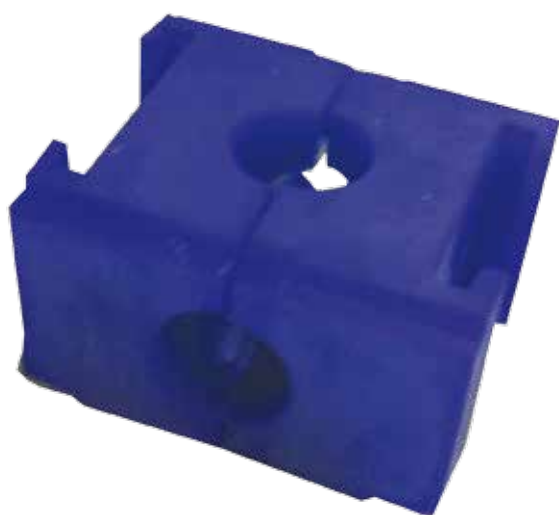


Cod.	D	L	F	d	Fig.
516.007	7.5	126	6x0.75	5x0.5	1
516.010	10	113	8x1	6x0.75	1
516.012	12	116	10x1	7x0.75	1
516.015	15	121	12x1.5	8x1	1
516.020	20	133	14x1.5	10x1	1
516.025	25	133	14x1.5	10x1	1
516.030	30	135	14x1.5	10x1	1

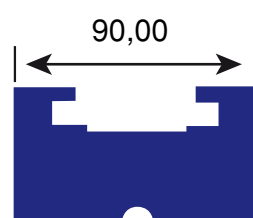
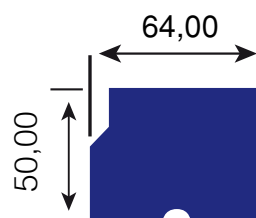
BOCCOLE DI CENTRAGGIO PER CARICATORI MINI BOSS

MINI BOSS CENTERING BUSHINGS FOR BARLOADERS

Cod.	L	H	Ø
MINIBOSSD04	100	64	4
MINIBOSSD06	100	64	6
MINIBOSSD08	100	64	8
MINIBOSSD10	100	64	10
MINIBOSSD12	100	64	12
MINIBOSSD14	100	64	14
MINIBOSSD16	100	64	16
MINIBOSSD18	100	64	18
MINIBOSSD20	100	64	20
MINIBOSSD22	100	64	22
MINIBOSSD24	100	64	24
MINIBOSSD26	100	64	26
MINIBOSSD28	100	64	28
MINIBOSSD30	100	64	30
MINIBOSSD32	100	64	32
MINIBOSSD34	100	64	34



lboss



lminiboss

BOCCOLE DI CENTRAGGIO PER CARICATORI
CENTERING BUSHINGS FOR BARLOADERS

BOCCOLE DI CENTRAGGIO PER CARICATORI BOSS-TAL-MASTER
BOSS - TAL - MASTER CENTERING BUSHINGS

Cod.	D	L	Ø
IBOSSD08	124	103	8
IBOSSD10	124	103	10
IBOSSD12	124	103	12
IBOSSD14	124	103	14
IBOSSD16	124	103	16
IBOSSD18	124	103	18
IBOSSD20	124	103	20
IBOSSD22	124	103	22
IBOSSD24	124	103	24
IBOSSD26	124	103	26
IBOSSD28	124	103	28
IBOSSD30	124	103	30
IBOSSD32	124	103	32
IBOSSD34	124	103	34
IBOSSD36	124	103	36
IBOSSD38	124	103	38
IBOSSD40	124	103	40
IBOSSD42	124	103	42
IBOSSD44	124	103	44
IBOSSD46	124	103	46
IBOSSD48	124	103	48
IBOSSD50	124	103	50
IBOSSD52	124	103	52
IBOSSD54	124	103	54
IBOSSD56	124	103	56
IBOSSD58	124	103	58
IBOSSD60	124	103	60
IBOSSD62	124	103	62
IBOSSD64	124	103	64
IBOSSD66	124	103	66
IBOSSD68	124	103	68
IBOSSD70	124	103	70
IBOSSD72	124	103	72
IBOSSD74	124	103	74
IBOSSD76	124	103	76
IBOSSD78	124	103	78
IBOSSD80	124	103	80

LEVETTE APERTURA / CHIUSURA PINZA CHUCK LEVERS

LEVETTE ACME / GRIDLEY	PAG. 92	ACME / GRIDLEY CHUCK LEVERS
LEVETTE CITIZEN	PAG. 92	CITIZEN CHUCK LEVERS
LEVETTE GILDEMEISTER	PAG. 93	GILDEMEISTER CHUCK LEVERS
LEVETTE HANWHA	PAG. 94	HANWHA CHUCK LEVERS
LEVETTE INDEX	PAG. 95	INDEX CHUCK LEVERS
LEVETTE ORTLINGHAUS	PAG. 95	ORTLINGHAUS CHUCK LEVERS
LEVETTE PITTLER	PAG. 95	PITTLER CHUCK LEVERS
LEVETTE SCHÜTTE	PAG. 96	SCHÜTTE CHUCK LEVERS
LEVETTE STAR	PAG. 97	STAR CHUCK LEVERS
LEVETTE TORNOS	PAG. 99	TORNOS CHUCK LEVERS
LEVETTE TRAUB	PAG. 100	TRAUB CHUCK LEVERS
LEVETTE TSUGAMI	PAG. 100	TSUGAMI CHUCK LEVERS
LEVETTE WICKMAN	PAG. 100	WICKMAN CHUCK LEVERS



LEVETTE APERTURA / CHIUSURA PINZA CHUCK LEVERS

ACME/GRIDLEY

MODEL	ART.	ORIGINAL CODE
1"1/4	1030010	
MAG16/1	1030020	
MAG16/2	1030030	
MAR25	1030040	
HSC6	1030050	02977-1

CITIZEN

MODEL	ART.	ORIGINAL CODE
A32/A20	1010160	
B12	1010060	B12U50C416
B12	1010140	B312U53-413
B12/BS20/K16	1010050	F412SC117
BS20/K16	1010120	B20U50C111
C16	1010050	F412SC117
F12	1010050	F412SC117
G16	1010130	
L16/L20	1010020	
L16/L20	1010080	L216U41B122
L20	1010050	F412SC117
M20/M32/L25/C32/A20	1010070	
PIN1	1010100	4m6x22
PIN2	1010090	6m6x40
PIN3	1010040	8m6x45
PIN4	1010030	4m5x30
PIN5	1010150	4h6x30

Spine/Pins



GILDEMEISTER

MODEL	ART.	ORIGINAL CODE
AA48	1006110	343-10-213/53
AA67	1006150	355-10-2130/055
AS100	1006210	347-10-2130/000
AS12	1006000	
AS16 / AS20	1006010	08.01.303
AS20	1006320	200.96.301
AS25	1006030	341-10-2130/001
AS32	1006040	342-10-2130/000
AS32	1006050	342-10-2130/0001
AS32	1006060	342-10-2130/002
AS32	1006070	342-10-2130/003
AS48	1006080	343-10-2130/001
AS48	1006090	343-10-2130/002
AS48	1006100	343-10-2130/003
AS67	1006120	355-10-2130/001
AS67	1006130	355-10-2130/002
AS67	1006140	355-10-2130/051
AS82	1006300	327-10-2130/051
AS/AV82	1006170	327-10-2130/002
AV55	1006230	AV55-4469-2
GM16AC	1006250	53.01.334-1189
GM16-6	1006280	53.01.387-03
GM32/35	1006310	35.01.130
GM42	1006420	40.01.113
GS/GM20	1006260	31.01.108
GS25/30	1006180	22.10.125
GS28/25-6	1006190	705-10-0017/001
GS35/50-6	1006200	703-10-0017/000
GD12-16/GD20	1006290	55.10.107
GD20	1006460	55.10.227
GD32	1006450	56.10.129
GLD12-16	1006290	55.10.107
GLD20-25-32	1006240	54.10.119
GLD20-25-32	1006350	54.10.117
GM35/8 GMC35	1006400	42.01.293
GMC20	1006410	51.01.284
GMC42	1006540	57.01.299

GILDEMEISTER

MODEL	ART.	ORIGINAL CODE
MSL	1006430	60.10.92
MSL42/60	1006530	94.10.123
MSL60/7	1006330	56.10.322
SPEED12	1006370	20.10.136
SPEED20	1006360	21.01.141
SPEED20-8	1006370	20.10.136
SPEED20-8	1006360	21.10.141
SPRINT20	1006360	21.10.141
SPRINT20	1006370	20.10.136
SPEED/SPRINT	1006580	
SPRINT32	1006240	54.10.254
SPRINT32	1006330	56.10.322
SPRINT32	1006510	26.10.196
SPRINT32/42	1006550	26.10.147
SPRINT42	1006330	56.10.322
SPRINT42	1006380	26.10.123
SPRINT42	1006510	26.10.196
SPRINT50	1006530	94.10.123

HANWHA

MODEL	ART.	ORIGINAL CODE
17/XD20/SL20S/SL16/ML20	1033850	BSS3000-021 3170-M210-1060
17/ML12	1033820	NPS7000-019 3184-S050-1091
25/ML20-26/XD20/32/SL26/SL32/SL35	1033800	SSS7000-012 3192-M011-1080
25/ML26/SL20-26-32-35	1033870	SSS3000-015 3173-M010-1140
SL/XD12	1033810	3184-M010-1130 NPM 0100 S 113
SL12-16	1033860	BSS7000 004 3224-S020-2200
STL32	1033830	SST11000-022
STL38	1033920	ST11000-819
X3	1033910	PA12000-11
XD20	1033940	PC16000-105
XD20/26-XE20/26	1033930	PD11000-009
XD26	1033880	DA15000-005
XD26	1033890	SM02026-001
XD32	1033900	CA11000-013A
XP/ML12	1033840	XOS3000-015

INDEX

MODEL	ART.	ORIGINAL CODE
DG/ON/OR	1003010	AA1371
A12/ER16	1003020	A33280
C19/A18-25-30	1003030	A43280
C29	1003040	C29591
B30-24	1003050	A53283
B36-42-52-60	1003060	A73281

ORTLINGHAUS

ART.	ORIGINAL CODE
1039010	1-100-046-23-000-000
1039020	1-300-046-15-000-000
1039030	1-100-046-15-000
1039120	1-100-046-25-000-000
1039050	1-100-046-31-000-000
1039060	1-100-046-23-154-000
1039070	1-100-046-39-000
1039080	1-100-046-15-152-000
1039090	1-110-046-15-152-000
1039100	1-100-113-15-000-000
1039040	1-100-113-23-000-000

PITTLER

MODEL	ART.	ORIGINAL CODE
PRC32	1025010	
PRC36	1025020	
PRC72-100	1025030	
PRC50	1025060	
DAR63/71	1025020	
DAR46	1025100	
PRC	1025110	10.222.0770.2
DAM32	1025130	
PRC25/8-36/6	1025140	162225891



SCHÜTTE

MODEL	ART.	ORIGINAL CODE
SB16	1017010	SB 16 890 b
SB16	1017020	SB 16 890 d
SB22	1017030	V 22 R 890
SB30/SB35	1017040	V 35 R 890
SB35	1017050	SB 35 890
SB42	1017060	SB 42 D 890 A
AD40	1017070	AD 40 D 390 A
SD 25/32	1017080	AD 40 D 390 A
SD 50/63/80	1017090	VD 63 D 390 A
SD 89	1017100	VD 63 D 390 A / 1
SE 16 -18	1017110	SE 16 D 390 B
SE 25-26	1017120	SE 25 D 390 A
SF13	1017130	C 3220-B-00 SZ
SF20	1017140	C 3220-B-11 SZ
SF26 A	1017150	C 3220-B-11 SL
SF / AF 26-32	1017160	C 3220-A-23 Z
SF 26-32	1017170	C 3220-B-23Z
SF/AF 26-32N	1017180	C 3220-C-23 Z
SF40-42-51	1017190	C 3220-A-44 SZ
SF/AF42-SF51	1017200	C 3220-B-45 Z
SF/AF67-81	1017210	C 3220-B-66 Z
SF81/SF67	1017220	C 3220-A-67 SZ
SF100	1017230	C 3220-77-SL
SF26L	1017250	C 3220-C-11 SL
SG18 /AG20	1017260	B 3220-A-G 1SZ
SG18/AG20	1017270	B 3220-A-G 1SZ
A36PC	1017410	C 3220-C-23 Z
SE25	1017280	SE 25-C-2538 A
SE16	1017290	SE 16-C-2538 A
SFH160	1017240	C 3220-C-44 SF
SFH160	1017430	C 3320-44-SF
SF20 DNT	1017400	D 3320-A 11F
SF20 DNT	1017380	C 3220-D-11 SZ
AD40	1017420	C 3320-A-55 Z

MODEL	ART.	ORIGINAL CODE
ECAS 20	1026510	540-39-600/620
ECAS 32T	1026540	580-320-70
ECAS 32T A48	1026550	580-840-70
JNC 16	1026010	025-32-060/080
JNC 25/32	1026020	052-32-070/090
KJR 16	1026070/90	250-32-090/100
KJR 16	1026160	252-32-070/090
KJR 25	1026220	260-32-070/090
KJR 25 II	1026220	360-32-070/090
KJR 25 II	1026220	362-32-080/100
KNC 16/20	1026060	222-32-230/250
KNC 16/20	1026150	220-32-070/090
KNC 25/32	1026020	200-32-070/090
KNC 25/32	1026080	202-32-230/250
KNC 25/32 II	1026020	340-32-070/090
KNC 25/32 II	1026080	342-32-230/250
KNC 32 II	1026200	342-32-231/250
RNC 16	1026070/90	210-32-060/080
RNC 16	1026100	270-82-080/100
RNC 16	1026570	OEO-32-060
RNC SR 32	1026200	342-32-231/250
SA 16/12	1026070/90	460-32-100/120
SA 16/12	1026240	460-82-080/100
SA 16 R	1026510	470-32-100
SA 16 R	1026240	470-82-080
SB 12 R / RG - SB 20 RE	1026580	0M0-83-030 1L0-32-820
SB16	1026240	480-82-070
SB16	1026070/90	460-32-100/120
SE / SH16	1026070/90	400-32-100/120
SH7	1026190	410-32-100/120
SI 12	1026250	XK72.9.150
SNC 15	1026010	196-32-060/080
SNC 25	1026110	091-32-060/080
SR 10 J	1026240	460-82-080/100
SR 10 J	1026250	690-83-070/090
SR 16	1026070/90	310-32-090/100
SR 16	1026130	312-32-070/090
SR 16 R	1026510	540-39-100
SR 20 J	1026060	322-32-070/090
SR 20 J	1026070/90	460-32-100/120

MODEL	ART.	ORIGINAL CODE
SR 20	1026060	322-32-070/090
SR 20 R	1026500	540-84-050/070
SR 20 R / SW 20	1026510	540-39-600/620
SR 20 R II + III	10226500	660-84-050
SR 20 R II + III	1026510	660-39-600
SR 20/32	1026220	330-32-090/100
SR 32	1026200	332-32-090/110
SR 32 J	1026530	670-320-90/110
SST 16	1026070/90	300-32-090/100
SST 16	1026070/90	210-32-060/080
SST 16	1026120	302-32-070/090
SST 16	1026570	OEO-32-060
ST 38	1026560	0B0-32-130/100
SV 12	1026520	450-32-100
SV 12	1026520	452-32-100/120
SV 20	1026210	420-32-060/080
SV 20 R	1026510	1B0-83-130
SV 32	1026220	440-32-090
SV 32	1026220	430-32-090
SV 32 J	1026230	442-32-090/110
SW 7/R	1026190	380-32-130/150
SW 7/R	1026190	382-32-110/130
SW 12 R II	1026590	1H0-83-120
SW 20	1026510	540-39-600/620
VNC 20	1026150	750-32-060/080
VNC 20	1026160	749-21-180/190
VNC 32	1026020	780-32-060/080
PIN 1	1126010	5 x 28,5
PIN 2	1126020	6 x 31
PIN 3	1126030	6 x 46
PIN 4	1126040	8 x 48
PIN 5	1126050	8 x 58
PIN 6	1126060	8 x 36
PIN 8	1126080	6 x 34
PIN 9	1126090	8 x 50
PIN 10	1126100	6 h7 x 30,5
PIN 11	1126110	12h7 x 46,5

TORNOS

MODEL	ART.	ORIGINAL CODE
AS 14, SAS 16	1005010	12 149
Perno / Pin AS/SAS	1005600	004770 (37xø6)
AS 14, SAS 16 Pick up	1005020	24 17
G 85, MR 28-32	1005240	098 099
M 10	1005120	MA 6469
M 15	1005130	B 451
M 20	1005140	J 51
M 25	1005150	C 157
M 4	1005040	MF 3549
M 4	1005050	MF 433
M 4	1005060	MF 7817
M 7	1005070	MD 265
M 7	1005110	MD 15355
M 7 Rinf. / Reinf.	1005080	MD 9705
M 7 stop	1005210	MA 4911
MS 7	1005090	MD 14103
MS 7 stop	1005100	MD 15825
NA 12, NA 153	1005230	098 098
R 10	1005160	5 RA 87
R 10	1005170	5 RA 87-06
R 16	1005180	5 RB 5031
R 7	1005250	RD 4039
RR 20	1005190	RB 5105
RR 20-01	1005220	RB 5105-01
TV, T4	1005030	TV 45
ENC 164	1005200	810 965
BS 20	1005290	045 397
BS 20 8 SPR	1005300	096 900
MTH	1005500	4/MT 359
Delta 12/14	1005510	
Gamma 20	1005360	



TRAUB

MODEL	ART.	ORIGINAL CODE
A 15	1001010	630 030
A 15-20-25	1001020	632 192
A 25, TC 15	1001030	616 112
A 26-36	1001040	632 202
A 42-60	1001050	630 950
T 30-42-60	1001060	632 521
TB 42-60-80, TK, TF	1001070	614 194
TB 42-60 with roll	1001200	614 194
TD 16 -26-36	1001080	691 325
TG (4 pieces/set)	1001240	675 609
AH 36	1001100	629 045
TNL 16 (2 pieces/set)	1001120	773 075
TNS 26 (3 pieces/set)	1001120	738 508
TNC 30	1001120	738 405

TSUGAMI

MODEL	ART.	ORIGINAL CODE
S 16 / S20	1033260	3192-S030-1060
NF 20/17	1033800	3171-M011-1140
HS 20 / 207 - BO205	1033280	3262-M010-1301
BO 205-206-325-326 /BS12-18 BS20 HS207	1033800	3192-M011-1080
B0 12	1033810	3184-M010-1130
NP 11/ 17	1033820	3184-S050-1091
NP 17 / BS - BO 18	1033850	3170-M210-1060
BO/BS/BW/BN 12 (B=8mm)	1033860	3224-S020-2200
BS 32III/V, BS 26III/V-BO326	1033980	3215-M050-1400
BS 32III/V, BS 26III/V-BO326	1033870	3215-M050-1400
NP 20-32 Main spindle / BS-HS26 -32	1033870	3173-M010-1140
BH 38E / BU 38	1033870	3233-S020-0500

WICKMAN

MODEL	ART.	ORIGINAL CODE
5/8"	1032040	401x104A
1"	1032030	101V1040
1"3/8-1"3/4-2"1/4	1032020	301V1040
2"1/4	1032050	3539D
3"1/4	1032010	501V138HA/38



PORTAUTENSILI - TOOL HOLDERS



GHIERE DI SERRAGGIO PER PINZE ER CLAMPING NUTS FOR ER COLLETS

GHIERE MINI (MINI CLAMPING NUTS)

Fig. 1

Art.	Type	D	H	F
052.108	ER 8	12	11	10x0.75
052.111	ER 11	16	11	13x0.75
052.116	ER 16	22	17	19x1
052.120	ER 20	28	19	24x1
052.125	ER 25	35	20	30x1

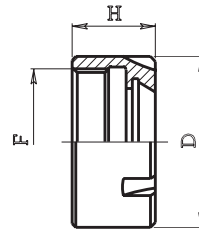


Fig. 1



GHIERE ESAGONALI (HEXAGONAL CLAMPING NUTS)

Fig. 2

Art.	Type	D	H	F
052.211	ER 11	19	11	14x0.75
052.216	ER 16	28	17	22x1.5
052.220	ER 20	34	19	25x1.5

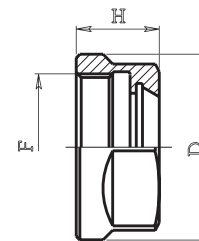


Fig. 2



GHIERE STANDARD (STANDARD CLAMPING NUTS)

Fig. 3

Art.	Type	D	H	F
052.316	ER 16	32	17.5	22x1.5
052.320	ER 20	35	19	25x1.5
052.325	ER 25	42	20	32x1.5
052.332	ER 32	50	22	40x1.5
052.340	ER 40	63	25	50x1.5
052.350	ER 50	78	35	64x2

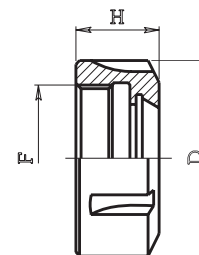


Fig. 3



GHIERE FILETTO ESTERNO (EXTERNAL THREAD NUTS)

Fig. 4

Art.	Type	D	H	F
052.411	ER 11	...	6	18x1
052.411 B*	ER 11	...	6	18x1
052.416	ER 16	...	8	24x1
052.420	ER 20	...	11	28x1.5
052.425	ER 25	...	12.5	32x1.5
052.432	ER 32	...	14	40x1.5
052.432 B*	ER 32	...	14	40x1.5

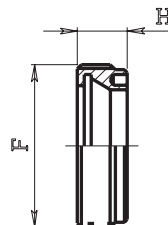
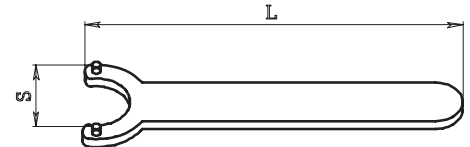
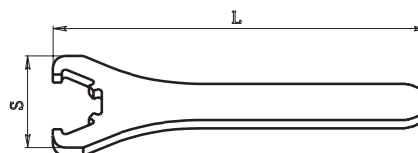
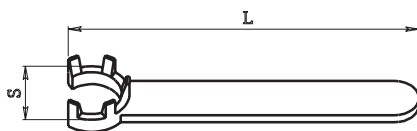


Fig. 4



CHIAVI PER GHIERE

WRENCHES FOR CLAMPING NUTS



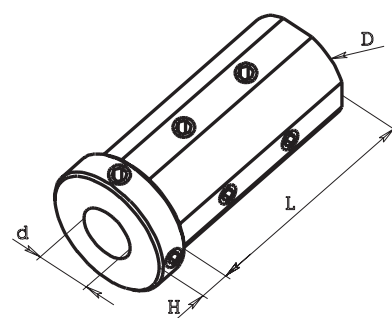
Art.	S	L	Ghiera / Nut
053.108	12	80	052.108
053.111	16	96	052.111
053.116	22	118	052.116
053.120	28	130	052.120
053.125	35	132	052.125

Art.	S	L	Ghiera / Nut
053.316	50	160	052.316
053.320	57	180	052.320
053.325	65	210	052.325
053.332	75	250	052.332
053.340	90	290	052.340
053.350	110	350	052.350

Art.	S	L	Ghiera / Nut
053.420	20.5	160	052.420
053.425	23.5	180	052.425
053.432	32	200	052.432

BUSSOLE P. BARENI CON GRANI E BATTUTA BORING BAR SLEEVES

Ø	Art.	D	d	H	L
19,05	243.1906 050	19,05	6	5	50
	243.1908 050	19,05	8	5	50
	243.1910 050	19,05	10	5	50
20	243.2006 050	20	6	5	50
	243.2008 050	20	8	5	50
	243.2010 050	20	10	5	50
22	243.2206 054	22	6	6	54
	243.2208 054	22	8	6	54
	243.2210 054	22	10	6	54
25	243.2506 054	25	6	6	54
	243.2508 054	25	8	6	54
	243.2510 054	25	10	6	54
	243.2512 054	25	12	6	54
25,4	243.2606 054	25,4	6	6	54
	243.2608 054	25,4	8	6	54
	243.2610 054	25,4	10	6	54
	243.2612 054	25,4	12	6	54
31,75	243.3106 063	31,75	6	7	63
	243.3108 063	31,75	8	7	63
	243.3110 063	31,75	10	7	63
	243.3112 063	31,75	12	7	63
	243.3114 063	31,75	14	7	63
	243.3116 063	31,75	16	7	63
	243.3120 063	31,75	20	7	63
32	243.3208 040	32	8	7	40
	243.3210 040	32	10	7	40
	243.3212 040	32	12	7	40
	243.3216 040	32	16	7	40
	243.3220 040	32	20	7	40
	243.3206 063	32	6	7	63
	243.3208 063	32	8	7	63
	243.3210 063	32	10	7	63
	243.3212 063	32	12	7	63
	243.3214 063	32	14	7	63
	243.3216 063	32	16	7	63
	243.3220 063	32	20	7	63
40	243.4006 070	40	6	12	70
	243.4008 080	40	8	12	80
	243.4010 080	40	10	12	80
	243.4012 080	40	12	12	80
	243.4014 080	40	14	12	80
	243.4016 080	40	16	12	80
	243.4018 080	40	18	12	80
	243.4020 080	40	20	12	80
	243.4025 080	40	25	12	80
50	243.5012 085	50	12	12	85
	243.5016 085	50	16	12	85
	243.5020 085	50	20	12	85
	243.5025 085	50	25	12	85
	243.5032 085	50	32	12	85



BUSSOLE P. BARENI CON GRANI E BATTUTA BORING BAR SLEEVES

BUSSOLE DIAMETRO 20 DIAMETER 20 BUSHES

Art.	D	d	H	L
244.2010 050	20	10	8	50
244.2012 050	20	12	8	50
244.2016 050	20	16	8	50

BUSSOLE DIAMETRO 22 DIAMETER 22 BUSHES

Art.	D	d	H	L
244.2212 054	22	12	8	54
244.2216 054	22	16	8	54

BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

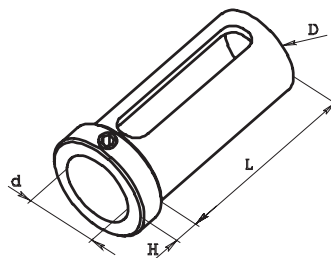
Art.	D	d	H	L
244.2514 055	25	14	12	55
244.2516 055	25	16	12	55
244.2520 055	25	20	12	55

BUSSOLE DIAMETRO 25,40 DIAMETER 25,40 BUSHES

Art.	D	d	H	L
244.2614 055	25,4	14	12	55
244.2616 055	25,4	16	12	55
244.2619 055	25,4	19,05	12	55
244.2620 055	25,4	20	12	55

BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

Art.	D	d	H	L
244.3125 065	31,75	25	12	65



BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES

Art.	D	d	H	L
244.3225 065	32	25	12	65

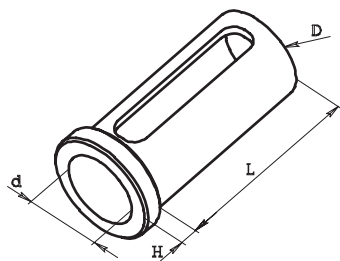
BUSSOLE DIAMETRO 40 DIAMETER 40 BUSHES

Art.	D	d	H	L
244.4016 080	40	16	12	80
244.4020 080	40	20	12	80
244.4025 080	40	25	12	80
244.4032 089	40	32	12	89

BUSSOLE DIAMETRO 50 DIAMETER 50 BUSHES

Art.	D	d	H	L
244.5025 085	50	25	12	85
244.5032 085	50	32	12	85
244.5040 088	50	40	12	88

BUSSOLE P. BARENI CON GRANI E BATTUTA BORING BAR SLEEVES



BUSSOLE DIAMETRO 19,05 DIAMETER 19,05 BUSHES

Art.	D	d	H	L
245.1912 050	19,05	12	6	50
245.1914 050	19,05	14	6	50
245.1916 050	19,05	16	6	50

BUSSOLE DIAMETRO 20 DIAMETER 20 BUSHES

Art.	D	d	H	L
245.2008 030	20	8	6	30
245.2010 030	20	10	6	30
245.2012 030	20	12	6	30
245.2014 030	20	14	6	30

245.2006 040	20	6	6	40
245.2008 040	20	8	6	40
245.2010 040	20	10	6	40
245.2012 040	20	12	6	40
245.2016 040	20	16	6	40

245.2012 050	20	12	6	50
245.2014 050	20	14	6	50
245.2016 050	20	16	6	50

BUSSOLE DIAMETRO 25 DIAMETER 25 BUSHES

Art.	D	d	H	L
245.2508 050	25	8	6	50
245.2510 050	25	10	6	50
245.2512 050	25	12	6	50
245.2514 050	25	14	6	50
245.2516 050	25	16	6	50
245.2518 050	25	18	6	50
245.2520 050	25	20	6	50

BUSSOLE DIAMETRO 31,75 DIAMETER 31,75 BUSHES

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

BUSSOLE DIAMETRO 32 DIAMETER 32 BUSHES

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

BUSSOLE P. BARENI CON GRANI SENZA BATTUTA BORING BAR SLEEVES

BUSSOLE DIAMETRO 25 *DIAMETER 25 BUSHES*

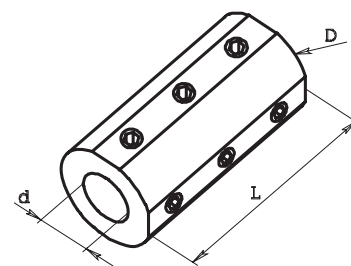
Art.	D	d	L
246.2506 050	25	6	50
246.2508 050	25	8	50
246.2510 050	25	10	50
246.2512 050	25	12	50
246.2514 050	25	14	50
246.2516 050	25	16	50

BUSSOLE DIAMETRO 31,75 *DIAMETER 31,75 BUSHES*

Art.	D	d	L
246.3108 060	31,75	8	60
246.3110 060	31,75	10	60
246.3112 060	31,75	12	60
246.3114 060	31,75	14	60
246.3116 060	31,75	16	60
246.3118 060	31,75	18	60
246.3120 060	31,75	20	60

BUSSOLE DIAMETRO 32 *DIAMETER 32 BUSHES*

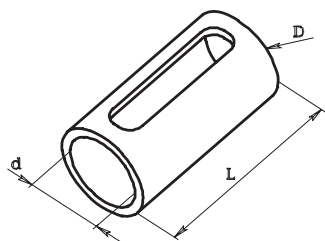
Art.	D	d	L
246.3208 060	32	8	60
246.3210 060	32	10	60
246.3212 060	32	12	60
246.3214 060	32	14	60
246.3216 060	32	16	60
246.3218 060	32	18	60
246.3220 060	32	20	60



BUSSOLE DIAMETRO 40 *DIAMETER 40 BUSHES*

Art.	D	d	L
246.4008 080	40	8	80
246.4010 080	40	10	80
246.4012 080	40	12	80
246.4016 080	40	16	80

BUSSOLE P. BARENI CON ASOLA SENZA BATTUTA TIPO 247 BORING BAR SLEEVES



BUSSOLE DIAMETRO 25 *DIAMETER 25 BUSHES*

Art.	D	d	L
247.2508 050	25	8	50
247.2510 050	25	10	50
247.2512 050	25	12	50
247.2514 050	25	14	50
247.2516 050	25	16	50
247.2518 050	25	18	50
247.2520 050	25	20	50

BUSSOLE DIAMETRO 31,75 *DIAMETER 31,75 BUSHES*

Art.	D	d	L
247.3108 060	31,75	8	60
247.3110 060	31,75	10	60
247.3112 060	31,75	12	60
247.3114 060	31,75	14	60
247.3116 060	31,75	16	60
247.3120 060	31,75	18	60
247.3125 060	31,75	20	60

BUSSOLE DIAMETRO 32 *DIAMETER 32 BUSHES*

Art.	D	d	L
247.3208 060	32	8	60
247.3210 060	32	10	60
247.3212 060	32	12	60
247.3214 060	32	14	60
247.3216 060	32	16	60
247.3220 060	32	20	60
247.3225 060	32	25	60

BUSSOLE DIAMETRO 40 *DIAMETER 40 BUSHES*

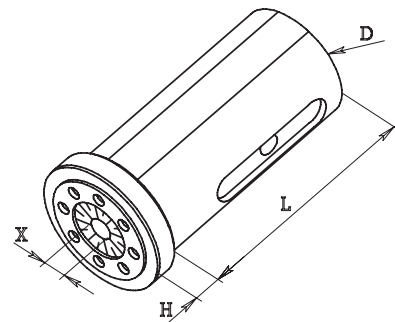
Art.	D	d	L
247.4020 080	40	20	80
247.4025 080	40	25	80
247.4032 080	40	32	80

BUSOLE PORTA PINZA CON GHIERA INTERNA

BUSH (CYLINDRICAL CONNECTION)

Art.	D	H	L	X	Pinza /Collet	Ghiera/Nut	Chiave/Wrench
168.132 070	32	5	70	0.5 - 13	ER 20	052.420	053.420
168.240 080	40	5	80	0.5 - 16	ER 25	052.425	053.425

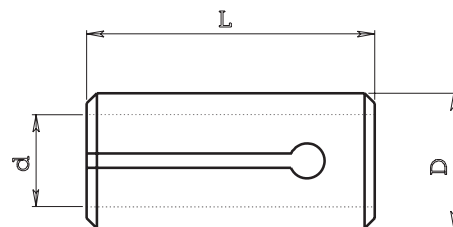
Con passaggio liquido refrigerante dall'interno
With inner coolant feeding system



ADATTATORI PER CODOLI

BUSH (CYLINDRICAL CONNECTION)

Art.	d	D	L
242.115	15.875	19.05	46
242.116	16	19.05	46
242.219	19.05	22	46
242.220	20	22	46
242.319	19.05	25	46
242.320	20	25	46
242.322	22	25	46
242.415	15.875	25.40	46
242.416	16	25.40	46
242.419	19.05	25.40	46
242.420	20	25.40	46
242.422	22	25.40	46
242.522	22	30	46
242.525	25	30	46
242.526	25.40	30	46
242.622	22	31.75	46
242.625	25	31.75	46
242.626	25.40	31.75	46
242.722	22	32	46
242.725	25	32	46
242.726	25.40	32	46

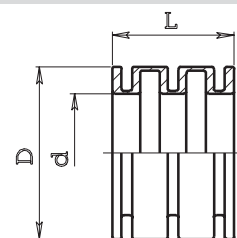


BOCCOLA

BUSH

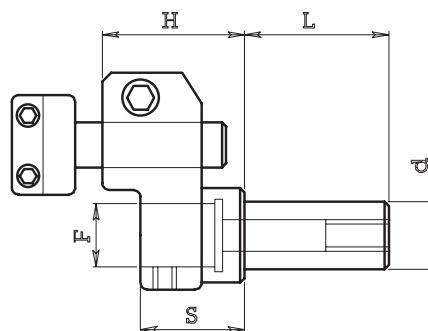
Art.	d	D	L
242.901	25,4	37	26

Per bloccaggio porta utensili su macchine Index E 42-60
For tighten up toolholders on Index E 42-60 machines



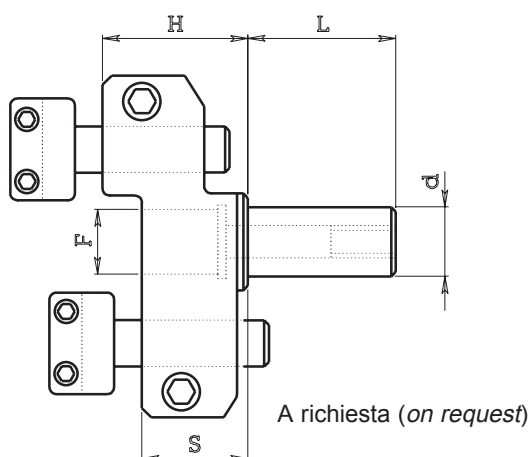
PORTA UTENSILE COMBINATO SEMPLICE RIBASSATO TURN AND DRILL HOLDER

Art.	d	F	H	S	L	E
108.115	15.875	12	32	24	32	12
108.116	16	12	32	24	32	12
108.119	19.05	12	32	24	32	12



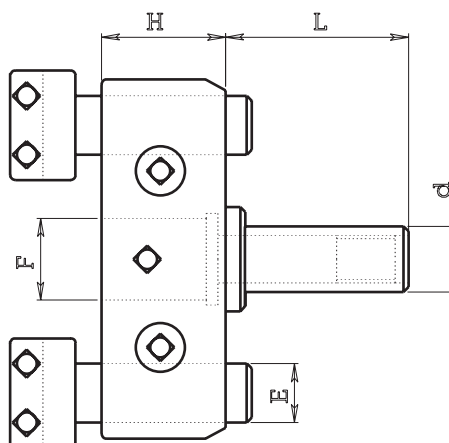
PORTA UTENSILE COMBINATO DOPPIO RIBASSATO TURN AND DRILL HOLDER

Art.	d	F	H	S	L	E
109.115	15.875	12	32	26	32	12
109.116	16	12	32	26	32	12
109.119	19.05	12	32	26	32	12



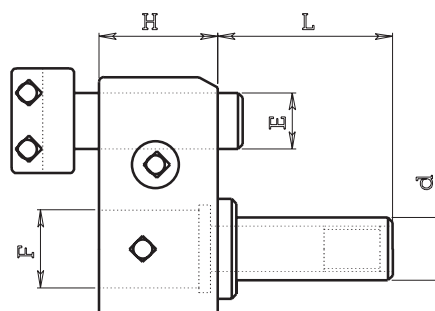
PORTA UTENSILE COMBINATO DOPPIO TURN AND DRILL HOLDER

Art.	d	F	H	L	E
110.219	19.05	15	26	46	15
110.220	20	15	26	46	15
110.322	22	25	44	50	18
110.325	25	25	44	50	18
110.326	25.40	25	44	50	18
110.330	30	25	38	56	18
110.331	31.75	25	38	56	18
110.332	32	25	38	56	18



PORTA UTENSILE COMBINATO SEMPLICE TURN AND DRILL HOLDER

Art.	d	F	H	L	E
112.115	15.875	12	22	32	12
112.116	16	12	22	32	12
112.119	19.05	12	22	32	12
112.219	19.05	15	26	46	15
112.220	20	15	26	46	15
112.322	22	25	36	50	18
112.325	25	25	36	50	18
112.326	25.40	25	36	50	18
112.330	30	25	36	50	18
112.331	31.75	25	36	50	18
112.332	32	25	36	50	18

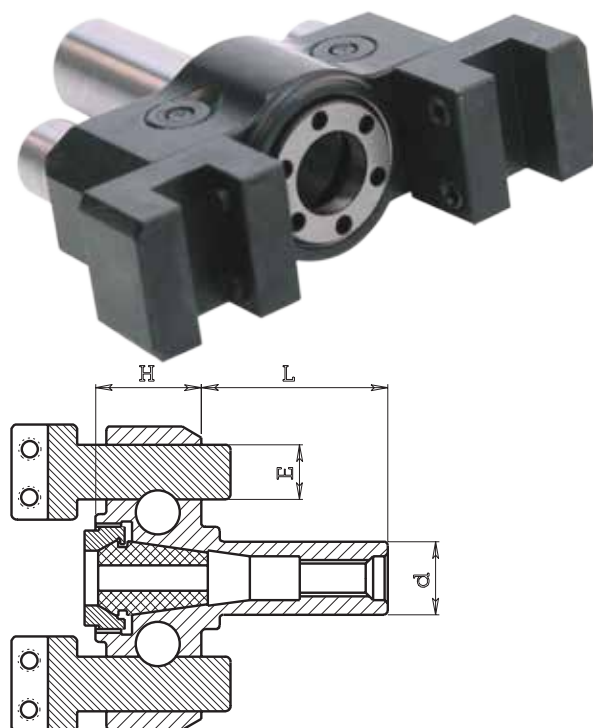


PORTA UTENSILE COMBINATO DOPPIO CON PINZA TURN AND DRILL HOLDER

PINZE DIN 6499/B COLLETS DIN 6499/B

Art.	d	H	L	E	Pinza/Collet
114.115*	15.875	28	32	12	ER 16
114.116*	16	28	32	12	ER 16
114.119*	19.05	28	32	12	ER 16
114.219	19.05	34	46	15	ER 20
114.220	20	34	46	15	ER 20
114.222	22	34	46	15	ER 20
114.322	22	47	50	18	ER 32
114.325	25	47	50	18	ER 32
114.326	25.40	47	50	18	ER 32
114.330	30	47	50	18	ER 32
114.331	31.75	47	50	18	ER 32
114.332	32	47	50	18	ER 32

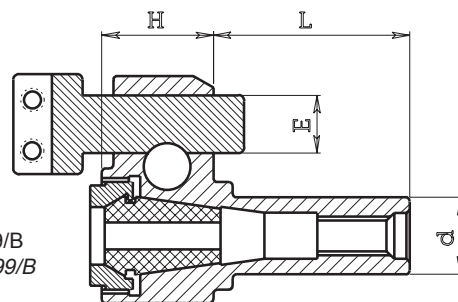
* = A richiesta (on request)



PORTA UTENSILE COMBINATO SEMPLICE CON PINZA TURN AND DRILL HOLDER WITH COLLET

Art.	d	H	L	E	Pinza/Collet
116.115*	15.875	28	32	12	ER 16
116.116*	16	28	32	12	ER 16
116.119*	19.05	28	32	12	ER 16
116.219	19.05	34	45	15	ER 20
116.220	20	34	45	15	ER 20
116.222	22	34	45	15	ER 20
116.322	22	47	50	18	ER 32
116.325	25	47	50	18	ER 32
116.326	25.40	47	50	18	ER 32
116.330	30	47	50	18	ER 32
116.331	31.75	47	50	18	ER 32
116.332	32	47	50	18	ER 32
116.426	25.40	47	50	18	ER 25

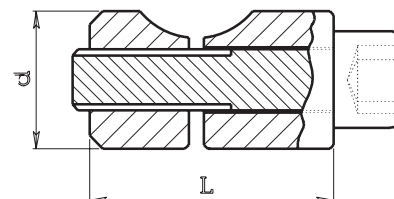
* = A richiesta (on request)



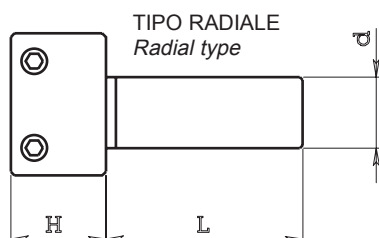
Pinze DIN 6499/B
Collets DIN 6499/B

NOTTOLINI DI BLOCCAGGIO INTERLOCKING BUSHES

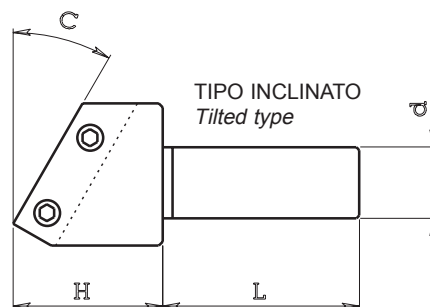
Art.	d	L	Portautensile/toolholder
244.201	12	26	110.2 - 112.2 - 114.2 - 116.2
244.301	15	36	110.3 - 112.3 - 114.3 - 116.3



SUPPORTINI FISSI FIXED TOOL HOLDERS



TIPO RADIALE
Radial type

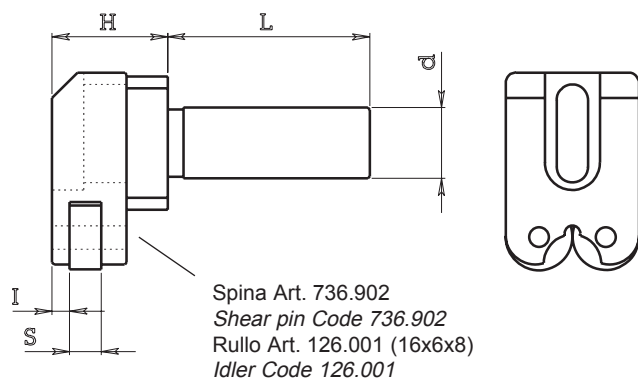


TIPO INCLINATO
Tilted type

Art.	d	L	H
120.101	12	32	14
120.102	12	40	14
120.201	15	42	18
120.202	15	60	18
120.301	18	50	20
120.302	18	75	20

Dx/Rh	d	L	H	C	Sx/Lh
120.211	15	42	18	8°	120.711
120.212	15	60	18	8°	120.712
120.231	15	42	29	30°	120.731
120.232	15	60	29	30°	120.732
120.311	18	50	25	8°	120.811
120.312	18	75	25	8°	120.812
120.331	18	50	32	30°	120.831
120.332	18	75	32	30°	120.832

SUPPORTINI PORTA RULLI IDLER TOOLHOLDERS

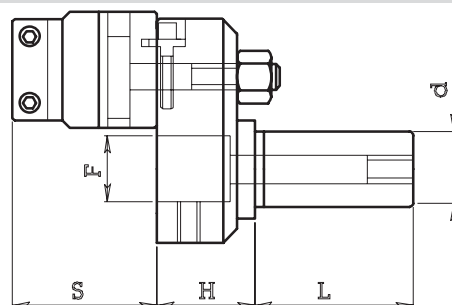


Art.	d	H	L	I	S	Ø Barra / Bar	
						min	max
126.201	15	27	42	4	8	3	30
126.301	18	29	52	4	8	3	30

PORTA UTENSILI REGISTRABILI ADJUSTABLE TOOLHOLDERS

A richiesta (on request)

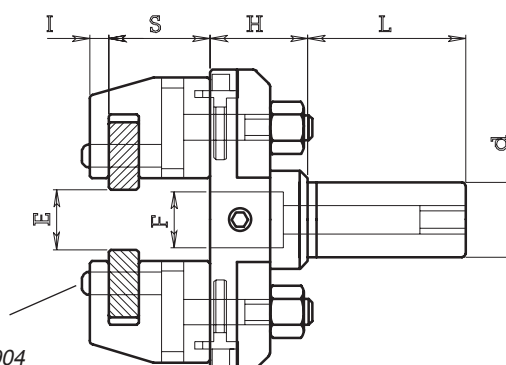
Art.	d	S	H	L	F
130.219	19.05	30	26	46	15
130.220	20	30	26	46	15
130.322	22	38	38	50	25
130.325	25	38	38	50	25
130.326	25.40	38	38	50	25
130.330	30	38	38	50	25
130.331	31.75	38	38	50	25
130.332	32	38	38	50	25



PORTA UTENSILI PORTA GODRONI KNURLHOLDERS

Art.	d	S	H	I	L	F	E min	E max
136.219	19.05	28	28	5	42	15	5	26
136.220	20	28	28	5	42	15	5	26
136.322	22	34	35	6	50	25	6	56
136.325	25	34	35	6	50	25	6	56
136.326	25.40	34	35	6	50	25	6	56
136.330	30	34	35	6	50	25	6	56
136.331	31.75	34	35	6	50	25	6	56
136.332	32	34	35	6	50	25	6	56

Per godroni diametro esterno 20 mm, foro 6 mm, spessore 8 mm
For 20 mm diameter, 6 mm bore, 8 mm length knurls



Spina Art. 736.904
Shear pin Code 736.904

PORTA BARENO REGISTRABILE ADJUSTABLE BORING TOOLHOLDER

Fig. 1

Art.	d	F	H	L	R
140.115	15.875	12	46.5	32	10
140.116	16	12	46.5	32	10
140.119	19.05	12	46.5	46	10
140.120	20	12	46.5	46	10

Fig. 2

Art.	d	F	H	L	R
140.219	19.05	15	54	50	18
140.220	20	15	54	50	18
140.225	25	15	54	50	18
140.226	25.40	15	54	50	18
140.319	19.05	18	54	50	18
140.320	20	18	54	50	18
140.325	25	18	54	50	18
140.326	25.40	18	54	50	18

R = Corsa di registrazione
R = adjustable stroke

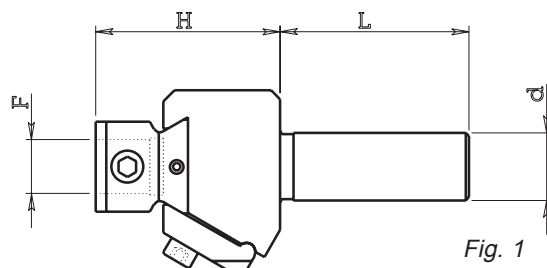


Fig. 1

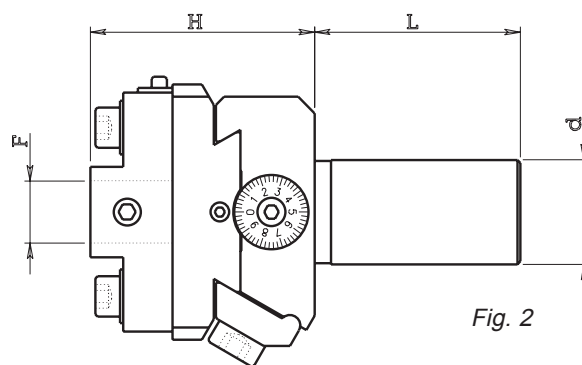
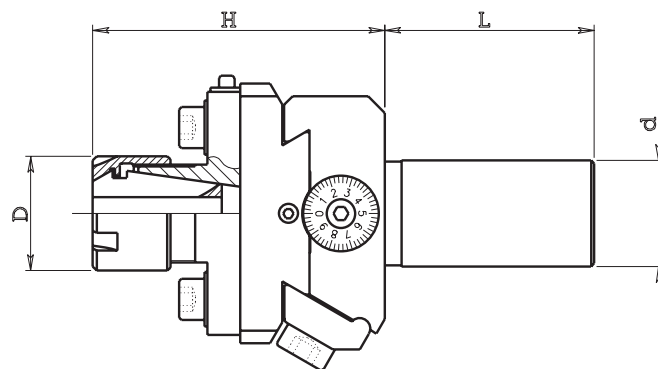


Fig. 2

PORTA BARENO REGISTRABILE CON PINZA ADJUSTABLE BORING TOOLHOLDER WITH COLLET

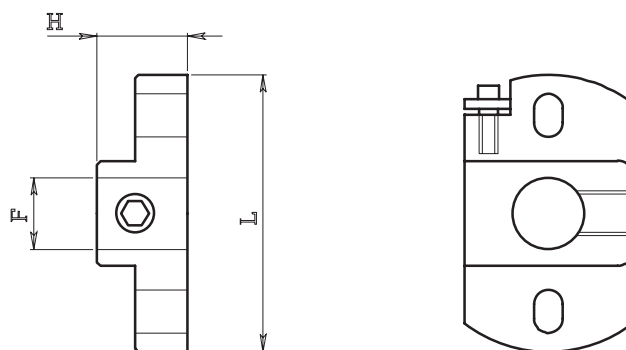
Art.	d	D	H	L	Pinza/Collet	$\varnothing$	
						min	max
140.219B	19.05	22	67	50	ER 16	1	10
140.220B	20	22	67	50	ER 16	1	10
140.225B	25	22	67	50	ER 16	1	10
140.226B	25.40	22	67	50	ER 16	1	10
140.219C	19.05	28	70	50	ER 20	1	13
140.220C	20	28	70	50	ER 20	1	13
140.325C	25	28	70	50	ER 20	1	13
140.326C	25.40	28	70	50	ER 20	1	13
140.319D	19.05	35	75	50	ER 25	1	16
140.320D	20	35	75	50	ER 25	1	16
140.325D	25	35	75	50	ER 25	1	16
140.326D	25.40	35	75	50	ER 25	1	16



Pinze DIN 6499/B
Collets DIN 6499/B

PIASTRINI BORING TOOLHOLDERS

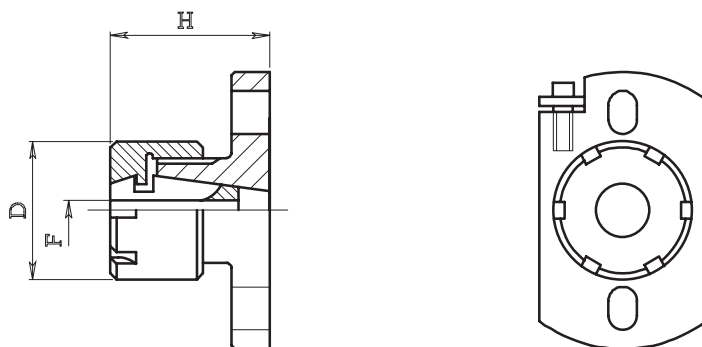
Art.	F	H	L	portautensile / toolholder
141.201	15	20	58	140.2 - 142.2
141.301	18	20	64	140.3 - 142.3



PIASTRINI PORTA PINZA BORING TOOLHOLDERS WITH COLLET

Art.	H	D	collet	Ø pinza / collet min max	portautensile toolholder
141.216	32	22	ER 16	1 10	140.2 - 142.2
141.220	36	28	ER 20	1 13	140.2 - 142.2
141.320	36	28	ER 20	1 13	140.3 - 142.3
141.325	42	35	ER 25	1 16	140.3 - 142.3

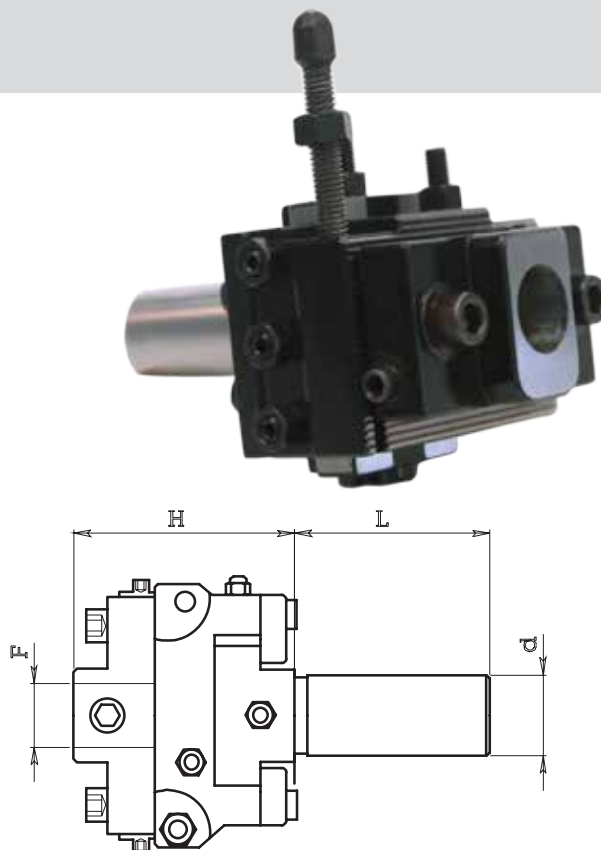
Pinze DIN 6499/B
Collets DIN 6499/B



PORTA UTENSILI PER RECESSI INTERNI RECESSING TOOLHOLDERS

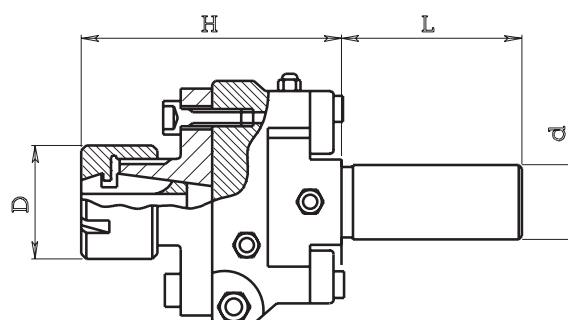
Art.	d	F	H	L	R
142.219	19.05	15	52	46	20
142.220	20	15	52	46	20
142.222	22	15	52	46	20
142.322	22	18	60	50	24
142.325	25	18	60	50	24
142.326	25.40	18	60	50	24
142.330	30	18	60	50	24
142.331	31.75	18	60	50	24
142.332	32	18	60	50	24

R = Corsa di registrazione
R = adjustable stroke



PORTA UTENSILI PER RECESSI INTERNI CON PINZA RECESSING TOOLHOLDERS WITH COLLET

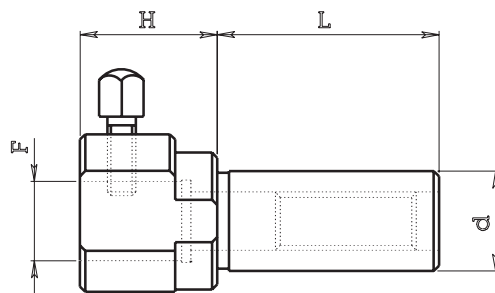
Art.	d	D	H	L	pinza/collet	Øpinza/collet	
						min	max
142.219B	19.05	22	64	46	ER 16	1	10
142.220B	20	22	64	46	ER 16	1	10
142.222B	22	22	64	46	ER 16	1	10
142.325B	25	22	64	46	ER 16	1	10
142.326B	25.40	22	64	46	ER 16	1	10
142.219C	19.05	28	68	46	ER 20	1	13
142.220C	20	28	68	46	ER 20	1	13
142.222C	22	28	68	46	ER 20	1	13
142.325C	25	28	76	50	ER 20	1	13
142.326C	25.40	28	76	50	ER 20	1	13
142.330C	30	28	76	50	ER 20	1	13
142.331C	31.75	28	76	50	ER 20	1	13
142.332C	32	28	76	50	ER 20	1	13
142.219D	19.05	35	82	50	ER 25	1	16
142.220D	20	35	82	50	ER 25	1	16
142.222D	22	35	82	50	ER 25	1	16
142.325D	25	35	82	50	ER 25	1	16
142.326D	25.40	35	82	50	ER 25	1	16
142.330D	30	35	82	50	ER 25	1	16
142.331D	31.75	35	82	50	ER 25	1	16
142.332D	32	35	82	50	ER 25	1	16



Pinze DIN 6499/B
Collets DIN 6499/B

PORTA UTENSILI PER PUNTE CILINDRICHE TOOLHOLDER FOR CYLINDRICAL SHANK DRILLS

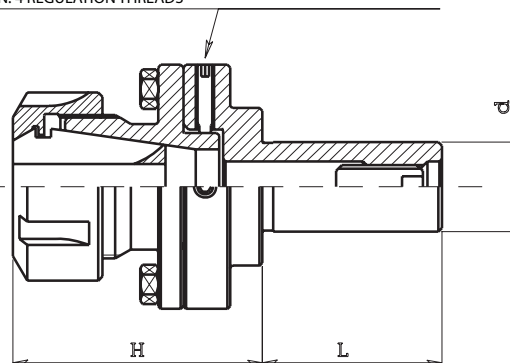
Art.	d	H	L	F
152.219	19.05	26	32	15
152.220	20	26	46	15
152.325	25	40	46	25
152.326	25.40	40	46	25



PORTA PUNTA REGISTRABILE CON PINZA ADJUSTABLE COLLET CHUCKS

Art.	d	H	L	pinza/collet
154.219	19.05	42	44	ER 20
154.220	20	42	44	ER 20
154.322	22	57	50	ER 32
154.325	25	57	50	ER 32
154.326	25.40	57	50	ER 32
154.330	30	57	50	ER 32
154.331	31.75	57	50	ER 32
154.332	32	57	50	ER 32

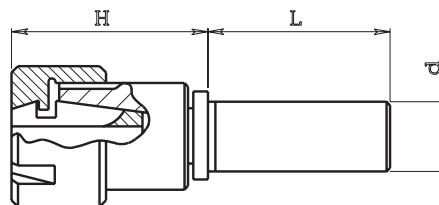
Pinze DIN 6499/B
Collets DIN 6499/B
N. 4 FILETTI PER REGISTRARE LA CENTRATURA
N. 4 REGULATION THREADS



PORTA ALESATORI OSCILLANTI CON PINZA REAMER HOLDERS WITH COLLET

Art.	d	H	L	pinza/collet
156.119	19.05	42	46	ER 20
156.120	20	42	46	ER 20
156.222	22	46	50	ER 25
156.225	25	46	50	ER 25
156.226	25.40	46	50	ER 25
156.230	30	46	50	ER 25
156.231	31.75	46	50	ER 25
156.232	32	46	50	ER 25

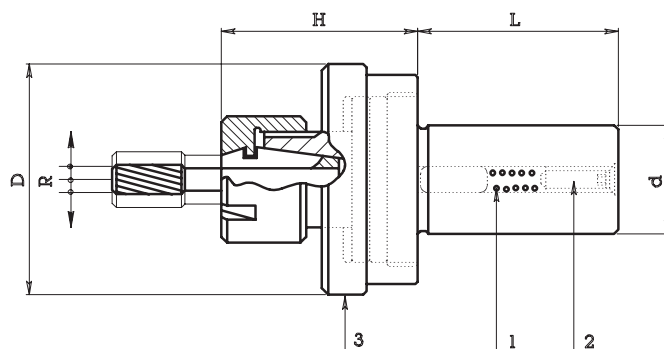
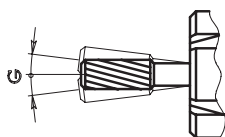
Pinze DIN 6499/B
Collets DIN 6499/B



PORTA ALESATORI FLOTTANTI CON PINZA FLOATING REAMER HOLDERS WITH COLLET

Fig. 2

Pinze DIN 6499/B
Collets DIN 6499/B



R = Capacità di movimento radiale
più o meno dal centro
R = radial stroke from centre

Art.	d	D	H	L	R	pinza/collet	ghiera/nut
157.715	15.875	42	40	46	1	ER 11	052.411
157.716	16	42	40	46	1	ER 11	052.411
157.719	19.05	42	40	46	1	ER 11	052.411
157.720	20	42	40	46	1	ER 11	052.411
157.015	15.875	42	44	46	1	ER 16	052.216
157.016	16	42	44	46	1	ER 16	052.216
157.019	19.05	42	44	46	1	ER 16	052.216
157.020	20	42	44	46	1	ER 16	052.216
157.022	22	42	44	46	1	ER 16	052.216
157.025	25	42	44	46	1	ER 16	052.216
157.026	25.40	42	44	46	1	ER 16	052.216
157.116	16	50	50	46	1	ER 20	052.220
157.119	19.05	50	50	46	1	ER 20	052.220
157.120	20	50	50	46	1	ER 20	052.220
157.125	25	50	50	46	1	ER 20	052.220
157.126	25.40	50	50	46	1	ER 20	052.220
157.216	16	57	53	46	1	ER 25	052.325
157.219	19.05	57	53	46	1	ER 25	052.325
157.220	20	57	53	46	1	ER 25	052.325
157.222	22	57	53	46	1	ER 25	052.325
157.225	25	57	53	46	1	ER 25	052.325
157.226	25.40	57	53	46	1	ER 25	052.325
157.325	25	68	58	50	1.5	ER 32	052.332
157.326	25.40	68	58	50	1.5	ER 32	052.332
157.330	30	68	58	50	1.5	ER 32	052.332
157.331	31.75	68	58	50	1.5	ER 32	052.332
157.332	32	68	58	50	1.5	ER 32	052.332

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

DATI TECNICI E MODO D'USO

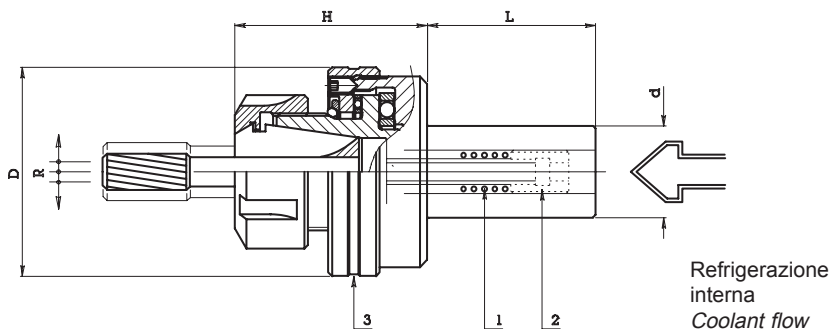
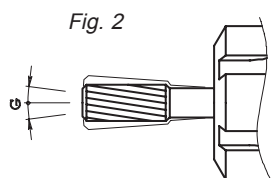
- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.

P. ALESATORI FLOTTANTI CON REFRIGERAZIONE INTERNA FLOATING REAMER HOLDERS WITH COOLANT FLOW

Pinze DIN 6499/B
Collets DIN 6499/B



Art.	d	D	H	L	R	pinza/collet	ghiera/nut
155.715	15.875	42	40	46	1	ER 11	052.411
155.716	16	42	40	46	1	ER 11	052.411
155.719	19.05	42	40	46	1	ER 11	052.411
155.720	20	42	40	46	1	ER 11	052.411
155.722	22	42	40	46	1	ER 11	052.411
155.725	25	42	40	46	1	ER 11	052.411
155.726	25.40	42	40	46	1	ER 11	052.411

155.015	15.875	42	44	46	1	ER 16	052.216
155.016	16	42	44	46	1	ER 16	052.216
155.019	19.05	42	44	46	1	ER 16	052.216
155.020	20	42	44	46	1	ER 16	052.216
155.022	22	42	44	46	1	ER 16	052.216
155.025	25	42	44	46	1	ER 16	052.216
155.026	25.40	42	44	46	1	ER 16	052.216

155.116	16	50	50	46	1	ER 20	052.220
155.119	19.05	50	50	46	1	ER 20	052.220
155.120	20	50	50	46	1	ER 20	052.220
155.125	25	50	50	46	1	ER 20	052.220
155.126	25.40	50	50	46	1	ER 20	052.220

155.216	16	57	53	46	1	ER 25	052.325
155.219	19.05	57	53	46	1	ER 25	052.325
155.220	20	57	53	46	1	ER 25	052.325
155.222	22	57	53	46	1	ER 25	052.325
155.225	25	57	53	46	1	ER 25	052.325
155.226	25.40	57	53	46	1	ER 25	052.325
155.232	32	57	53	46	1	ER 25	052.325

155.325	25	69	58	50	1.5	ER 32	052.332
155.326	25.40	69	58	50	1.5	ER 32	052.332
155.330	30	69	58	50	1.5	ER 32	052.332
155.331	31.75	69	58	50	1.5	ER 32	052.332
155.332	32	69	58	50	1.5	ER 32	052.332

155.425	25	79	64	50	1.5	ER 40	052.340
155.426	25.40	79	64	50	1.5	ER 40	052.340
155.430	30	79	64	50	1.5	ER 40	052.340
155.431	31.75	79	64	50	1.5	ER 40	052.340
155.432	32	79	64	50	1.5	ER 40	052.340

R = Capacità di movimento radiale
più o meno dal centro
R = radial stroke from centre

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

DATI TECNICI E MODO D'USO

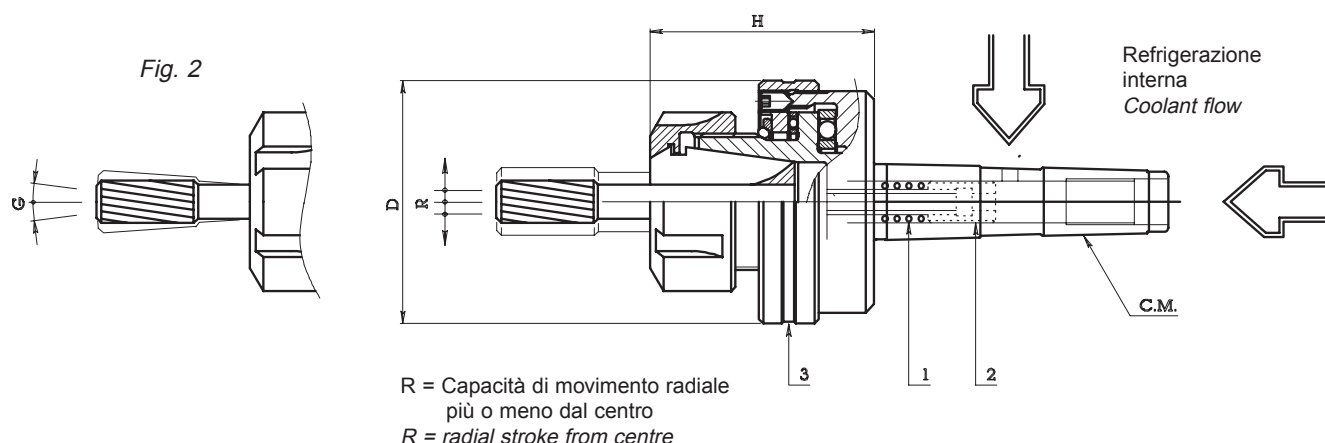
- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.

P. ALESATORI FLOTTANTI CON ATTACCO A CONO MORSE MORSE TAPER FLOATING REAMER HOLDER

Pinze DIN 6499/B
Collets DIN 6499/B



Art.	C.M.	D	H	L	R	pinza/collet	Ghiera/Nut
155.702	C.M.2	42	40	69	1	ER 11	052.411
155.703	C.M.3	42	40	86	1	ER 11	052.411
155.002	C.M.2	42	44	69	1	ER 16	052.216
155.003	C.M.3	42	44	86	1	ER 16	052.216
155.102	C.M.2	50	50	69	1	ER 20	052.220
155.103	C.M.3	50	50	86	1	ER 20	052.220
155.202	C.M.2	57	53	69	1	ER 25	052.325
155.203	C.M.3	57	53	86	1	ER 25	052.325
155.303	C.M.3	69	58	86	1.5	ER 32	052.332
155.304	C.M.4	69	58	109	1.5	ER 32	052.332
155.403	C.M.3	79	64	86	1.5	ER 40	052.340
155.404	C.M.4	79	64	109	1.5	ER 40	052.340

CARATTERISTICHE

- L'oscillazione sulle sfere, compensa gli errori di allineamento tra il mandrino della macchina ed il pezzo in lavorazione.
- Si può usare per la maschiatura rigida sui torni e centri di lavoro CNC.

FEATURES

- The free moving ball bearing drive, allows reamers to follow the existing drilled hole for high quality work.
- Could be used for synchronized tapping operations on lathes and CNC machining centers.

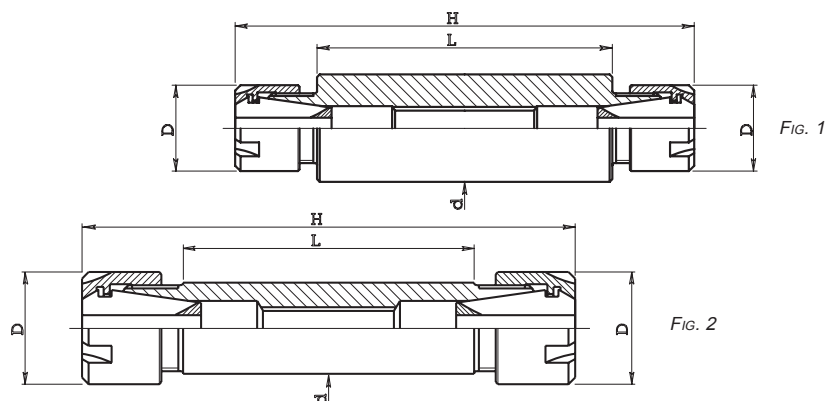
DATI TECNICI E MODO D'USO

- tramite la spinta della molla n. 1, l'utensile mantiene la posizione centrata
- agendo sulla vite n. 2 si regola la pressione della molla, ciò rende più o meno sensibile il movimento radiale dell'utensile
- allentando per 0.1 - 0.2 mm il pacco tramite la ghiera n. 3, si dà all'utensile la possibilità di oscillare come evidenziato in Fig. 2

TECHNICAL DATA

- The spring n. 1 allows to center the tool
- The screw n. 2 allows to adjust the floating level
- The nut n. 3 allows to have also the floating illustrated in fig. 2.

MANDRINI DOPPI PORTA PINZE CON GHIERA MINI DOUBLE - SEATED COLLET SPINDLES WITH MINI CLAMPING NUT



Pinze DIN 6499/B
Collets DIN 6499/B

Art.	d	L	H	D	pinza/collet	Fig.
159.716 040	16	40	71	16	ER 11	1
159.719 042	19.05	42	70	16	ER 11	1
159.719 052	19.05	52	80	16	ER 11	1
159.719 062	19.05	62	90	16	ER 11	1
159.719 092	19.05	92	120	16	ER 11	1
159.719 102	19.05	102	130	16	ER 11	1
159.719 112	19.05	112	140	16	ER 11	1

ER 11

159.720 042	20	42	70	16	ER 11	1
159.720 052	20	52	80	16	ER 11	1
159.720 062	20	62	90	16	ER 11	1

Art.	d	L	H	D	pinza/collet	Fig.
159.019 037	19.05	37	80	22	ER 16	2
159.019 057	19.05	57	100	22	ER 16	2
159.019 067	19.05	67	110	22	ER 16	2

ER 16

159.020 037	20	37	80	22	ER 16	2
159.020 057	20	57	100	22	ER 16	2
159.020 067	20	67	110	22	ER 16	2
159.020 122	20	122	165	22	ER 16	2

159.022 027	22	27	70	22	ER 16	1
159.022 047	22	47	90	22	ER 16	1
159.022 067	22	67	110	22	ER 16	1
159.022 102	22	102	145	22	ER 16	1
159.022 122	22	122	165	22	ER 16	1

159.025 027	25	27	70	22	ER 16	1
159.025 047	25	47	90	22	ER 16	1
159.025 067	25	67	110	22	ER 16	1

159.026 027	25.40	27	70	22	ER 16	1
159.026 047	25.40	47	90	22	ER 16	1
159.026 067	25.40	67	110	22	ER 16	1

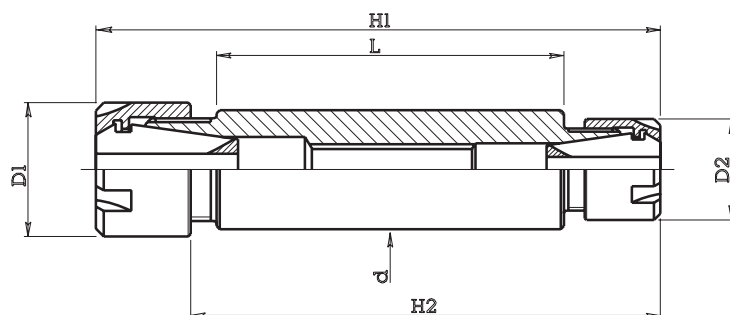
Art.	d	L	H	D	pinza/collet	Fig.
159.125 082	25	82	130	28	ER 20	2
159.126 082	25.40	82	130	28	ER 20	2
159.132 057	32	57	105	28	ER 20	1
159.132 082	32	82	130	28	ER 20	1

ER 20

MANDRINI DOPPI PORTA PINZE CON GHIERA MINI

DOUBLE - SEATED COLLET SPINDLES WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



Art.	d	L	H1	H2	D1	pinza/collet 1	D2	pinza/collet 2
------	---	---	----	----	----	----------------	----	----------------

ER 16 - ER 11

158.019 050	19.05	50	85	68	22	ER 16	16	ER 11
-------------	-------	----	----	----	----	-------	----	-------

Art.	d	L	H1	H2	D1	pinza/collet 1	D2	pinza/collet 2
------	---	---	----	----	----	----------------	----	----------------

ER 20 - ER 11

158.119 050	19.05	50	91	72	28	ER 20	16	ER 11
-------------	-------	----	----	----	----	-------	----	-------

Art.	d	L	H1	H2	D1	pinza/collet 1	D2	pinza/collet 2
------	---	---	----	----	----	----------------	----	----------------

ER 20 - ER 16

158.122 045	22	45	90	71	28	ER 20	22	ER 16
158.122 060	22	60	105	86	28	ER 20	22	ER 16

Art.	d	L	H1	H2	D1	pinza/collet 1	D2	pinza/collet 2
------	---	---	----	----	----	----------------	----	----------------

ER 25 - ER 16

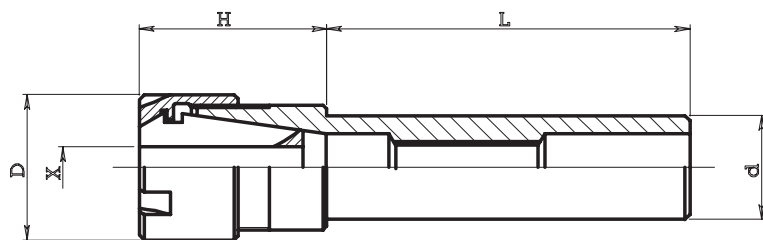
158.225 045	25	45	91	71	35	ER 25	22	ER 16
158.225 060	25	60	106	86	35	ER 25	22	ER 16

Art.	d	L	H1	H2	D1	pinza/collet 1	D2	pinza/collet 2
------	---	---	----	----	----	----------------	----	----------------

ER 25 - ER 20

158.232 060	32	60	108	88	35	ER 25	28	ER 20
-------------	----	----	-----	----	----	-------	----	-------

MANDRINI PORTA PINZE CON GHIERA MINI COLLET SPINDLES WITH MINI CLAMPING NUT



ER 8

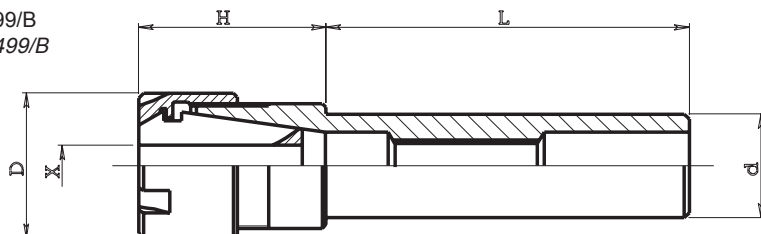
Art.	d	L	H	D	X	piza/collet	ghiera/nut	chiave/wrench
162.805 045	5	45	22	12	0.5 - 5	ER 8	052.108	053.108
162.806 045	6	45	22	12	0.5 - 5	ER 8	052.108	053.108
162.808 055	8	55	22	12	0.5 - 5	ER 8	052.108	053.108
162.808 080	8	80	22	12	0.5 - 5	ER 8	052.108	053.108
162.810 055	10	55	20	12	0.5 - 5	ER 8	052.108	053.108
162.810 080	10	80	20	12	0.5 - 5	ER 8	052.108	053.108
162.812 100	12	100	20	12	0.5 - 5	ER 8	052.108	053.108
162.813 100	12.7	100	20	12	0.5 - 5	ER 8	052.108	053.108

Art.	d	L	H	D	X	piza/collet	Art. ghiera	chiave/wrench
162.706 045	6	45	26	16	0.5 - 7	ER 11	052.111	053.111
162.707 045	7	45	26	16	0.5 - 7	ER 11	052.111	053.111
162.708 055	8	55	26	16	0.5 - 7	ER 11	052.111	053.111
162.708 100	8	100	26	16	0.5 - 7	ER 11	052.111	053.111
162.710 055	10	55	26	16	0.5 - 7	ER 11	052.111	053.111
162.710 100	10	100	26	16	0.5 - 7	ER 11	052.111	053.111
162.712 070	12	70	26	16	0.5 - 7	ER 11	052.111	053.111
162.712 100	12	100	26	16	0.5 - 7	ER 11	052.111	053.111
161.715 100	15.875	100	20	16	0.5 - 7	ER 11	052.111	053.111
161.716 040	16	40	20	16	0.5 - 7	ER 11	052.111	053.111
161.716 100	16	100	20	16	0.5 - 7	ER 11	052.111	053.111
161.716 160	16	160	20	16	0.5 - 7	ER 11	052.111	053.111
161.719 100	19.05	100	20	16	0.5 - 7	ER 11	052.111	053.111
161.720 100	20	100	20	16	0.5 - 7	ER 11	052.111	053.111
161.720 160	20	160	20	16	0.5 - 7	ER 11	052.111	053.111
161.722 120	22	120	20	16	0.5 - 7	ER 11	052.111	053.111
161.726 120	25.40	120	20	16	0.5 - 7	ER 11	052.111	053.111

ER 11

MANDRINI PORTA PINZE CON GHIERA MINI COLLET SPINDLES WITH MINI CLAMPING NUT

Pinze DIN 6499/B
Collets DIN 6499/B



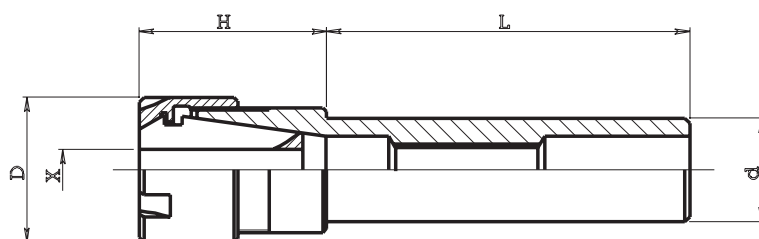
Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
162.008 055	8	55	36	22	0.5 - 10	ER 16	052.116	053.116
162.008 100	8	100	36	22	0.5 - 10	ER 16	052.116	053.116
162.010 060	10	60	36	22	0.5 - 10	ER 16	052.116	053.116
162.012 080	12	80	36	22	0.5 - 10	ER 16	052.116	053.116
162.014 080	14	80	36	22	0.5 - 10	ER 16	052.116	053.116
161.015 034	15.875	34	25	22	0.5 - 10	ER 16	052.116	053.116
161.015 060	15.875	60	40	22	0.5 - 10	ER 16	052.116	053.116
161.016 034	16	34	25	22	0.5 - 10	ER 16	052.116	053.116
161.016 060	16	60	40	22	0.5 - 10	ER 16	052.116	053.116
161.016 100	16	100	40	22	0.5 - 10	ER 16	052.116	053.116
161.016 160	16	160	40	22	0.5 - 10	ER 16	052.116	053.116
161.019 060	19.05	60	24	22	0.5 - 10	ER 16	052.116	053.116
161.019 070	19.05	70	24	22	0.5 - 10	ER 16	052.116	053.116
161.019 100	19.05	100	24	22	0.5 - 10	ER 16	052.116	053.116
161.019 130	19.05	130	24	22	0.5 - 10	ER 16	052.116	053.116
161.020 060	20	60	24	22	0.5 - 10	ER 16	052.116	053.116
161.020 100	20	100	24	22	0.5 - 10	ER 16	052.116	053.116
161.020 130	20	130	24	22	0.5 - 10	ER 16	052.116	053.116
161.022 125	22	125	24	22	0.5 - 10	ER 16	052.116	053.116
161.025 060	25	60	24	22	0.5 - 10	ER 16	052.116	053.116
161.025 100	25	100	24	22	0.5 - 10	ER 16	052.116	053.116
161.025 130	25	130	24	22	0.5 - 10	ER 16	052.116	053.116
161.025 160	25	160	24	22	0.5 - 10	ER 16	052.116	053.116
161.026 100	25.40	100	24	22	0.5 - 10	ER 16	052.116	053.116

ER 16

MANDRINI PORTA PINZE CON GHIERA MINI COLLET SPINDLE WITH MINI CLAMPING NUT



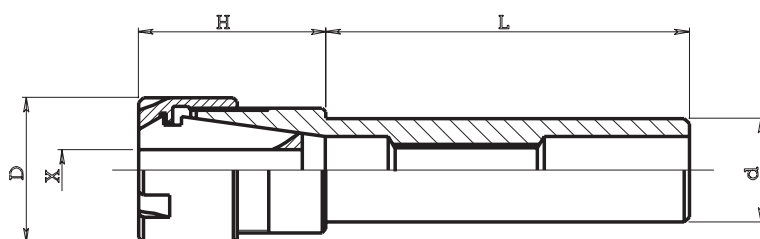
Pinze DIN 6499/B
Collets DIN 6499/B



Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
161.116 055	16	55	40	28	0.5 - 13	ER 20	052.120	053.120
161.116 100	16	100	40	28	0.5 - 13	ER 20	052.120	053.120
161.119 046	19.05	46	36	28	0.5 - 13	ER 20	052.120	053.120
161.119 100	19.05	100	36	28	0.5 - 13	ER 20	052.120	053.120
161.119 160	19.05	160	36	28	0.5 - 13	ER 20	052.120	053.120
161.120 046	20	46	36	28	0.5 - 13	ER 20	052.120	053.120
161.120 100	20	100	36	28	0.5 - 13	ER 20	052.120	053.120
161.120 160	20	160	36	28	0.5 - 13	ER 20	052.120	053.120
161.122 080	22	80	32	28	0.5 - 13	ER 20	052.120	053.120
161.125 070	25	70	26	28	0.5 - 13	ER 20	052.120	053.120
161.125 100	25	100	26	28	0.5 - 13	ER 20	052.120	053.120
161.125 130	25	130	26	28	0.5 - 13	ER 20	052.120	053.120
161.125 160	25	160	26	28	0.5 - 13	ER 20	052.120	053.120
161.126 070	25.40	70	26	28	0.5 - 13	ER 20	052.120	053.120
161.126 100	25.40	100	26	28	0.5 - 13	ER 20	052.120	053.120
161.126 130	25.40	130	26	28	0.5 - 13	ER 20	052.120	053.120
161.126 160	25.40	160	26	28	0.5 - 13	ER 20	052.120	053.120
161.132 095	32	95	26	28	0.5 - 13	ER 20	052.120	053.120

ER 20

MANDRINI PORTA PINZE CON GHIERA MINI COLLET SPINDLE WITH MINI CLAMPING NUT



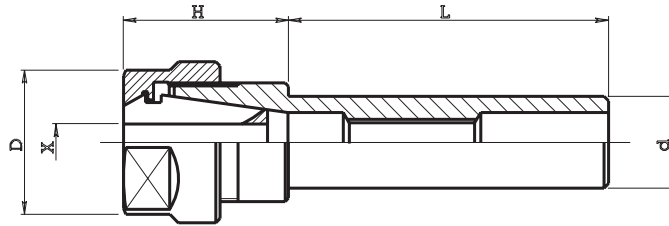
Pinze DIN 6499/B
Collets DIN 6499/B



Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
161.219 046	19.05	46	46	35	0.5 - 16	ER 25	052.125	053.125
161.219 100	19.05	100	46	35	0.5 - 16	ER 25	052.125	053.125
161.220 046	20	46	46	35	0.5 - 16	ER 25	052.125	053.125
161.220 060	20	60	46	35	0.5 - 16	ER 25	052.125	053.125
161.220 100	20	100	46	35	0.5 - 16	ER 25	052.125	053.125
161.220 130	20	130	46	35	0.5 - 16	ER 25	052.125	053.125
161.220 160	20	160	46	35	0.5 - 16	ER 25	052.125	053.125
161.222 080	22	80	46	35	0.5 - 16	ER 25	052.125	053.125
161.225 046	25	46	32	35	0.5 - 16	ER 25	052.125	053.125
161.225 070	25	70	32	35	0.5 - 16	ER 25	052.125	053.125
161.225 100	25	100	32	35	0.5 - 16	ER 25	052.125	053.125
161.225 160	25	160	32	35	0.5 - 16	ER 25	052.125	053.125
161.226 046	25.40	46	32	35	0.5 - 16	ER 25	052.125	053.125
161.226 070	25.40	70	32	35	0.5 - 16	ER 25	052.125	053.125
161.226 100	25.40	100	32	35	0.5 - 16	ER 25	052.125	053.125
161.240 100	40	100	27	35	0.5 - 16	ER 25	052.125	053.125
161.240 120	40	120	27	35	0.5 - 16	ER 25	052.125	053.125

ER 25

MANDRINI PORTA PINZE CON GHIERA ESAGONALE COLLET SPINDLE WITH HEXAGONAL CLAMPING NUT

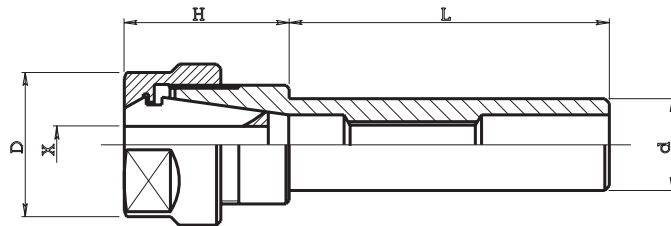


Pinze DIN 6499/B
Collets DIN 6499/B

Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
160.015 034	15.875	34	28	28	0.5 - 10	ER 16	052.216	053.216
160.015 060	15.875	60	30	28	0.5 - 10	ER 16	052.216	053.216
160.016 034	16	34	28	28	0.5 - 10	ER 16	052.216	053.216
160.016 060	16	60	30	28	0.5 - 10	ER 16	052.216	053.216
160.016 100	16	100	30	28	0.5 - 10	ER 16	052.216	053.216
160.016 160	16	160	30	28	0.5 - 10	ER 16	052.216	053.216
160.019 046	19.05	46	26	28	0.5 - 10	ER 16	052.216	053.216
160.019 100	19.05	100	26	28	0.5 - 10	ER 16	052.216	053.216
160.020 046	20	46	26	28	0.5 - 10	ER 16	052.216	053.216
160.020 100	20	100	26	28	0.5 - 10	ER 16	052.216	053.216
160.020 160	20	160	26	28	0.5 - 10	ER 16	052.216	053.216
160.022 046	22	46	26	28	0.5 - 10	ER 16	052.216	053.216
160.022 080	22	80	26	28	0.5 - 10	ER 16	052.216	053.216
160.022 100	22	100	26	28	0.5 - 10	ER 16	052.216	053.216
160.025 070	25	70	24	28	0.5 - 10	ER 16	052.216	053.216
160.025 160	25	160	24	28	0.5 - 10	ER 16	052.216	053.216
160.026 070	25.40	70	24	28	0.5 - 10	ER 16	052.216	053.216
160.032 100	32	100	24	28	0.5 - 10	ER 16	052.216	053.216

ER 16

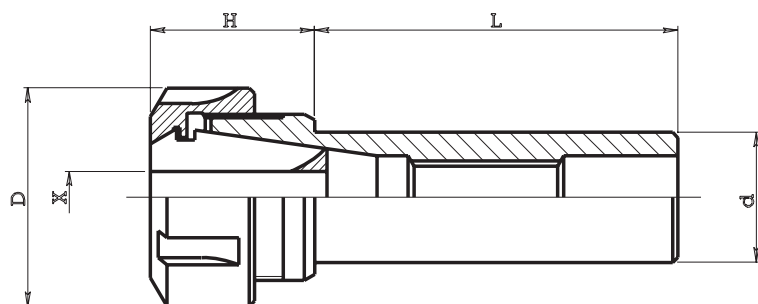
MANDRINI PORTA PINZE CON GHIERA ESAGONALE COLLET SPINDLE WITH HEXAGONAL CLAMPING NUT



Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
160.119 046	19.05	46	36	34	0.5 - 13	ER 20	052.220	053.220
160.119 100	19.05	100	36	34	0.5 - 13	ER 20	052.220	053.220
160.120 046	20	46	36	34	0.5 - 13	ER 20	052.220	053.220
160.120 070	20	70	36	34	0.5 - 13	ER 20	052.220	053.220
160.120 100	20	100	36	34	0.5 - 13	ER 20	052.220	053.220
160.122 046	22	46	26	34	0.5 - 13	ER 20	052.220	053.220
160.122 080	22	80	26	34	0.5 - 13	ER 20	052.220	053.220
160.125 060	25	60	26	34	0.5 - 13	ER 20	052.220	053.220
160.125 080	25	80	26	34	0.5 - 13	ER 20	052.220	053.220
160.126 060	25.40	60	26	34	0.5 - 13	ER 20	052.220	053.220
160.126 080	25.40	80	26	34	0.5 - 13	ER 20	052.220	053.220
160.130 155	30	155	26	34	0.5 - 13	ER 20	052.220	053.220
160.132 105	32	105	26	34	0.5 - 13	ER 20	052.220	053.220

ER 20

MANDRINI PORTA PINZE CON GHIERA ESAGONALE COLLET SPINDLE WITH HEXAGONAL CLAMPING NUT

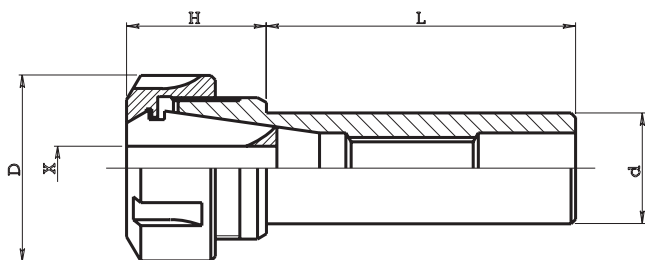


Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
160.219 046	19.05	46	46	42	0.5 - 16	ER 25	052.325	053.325
160.219 100	19.05	100	46	42	0.5 - 16	ER 25	052.325	053.325
160.220 046	20	46	46	42	0.5 - 16	ER 25	052.325	053.325
160.220 100	20	100	46	42	0.5 - 16	ER 25	052.325	053.325
160.222 046	22	46	46	42	0.5 - 16	ER 25	052.325	053.325
160.222 100	22	100	46	42	0.5 - 16	ER 25	052.325	053.325
160.225 050	25	50	32	42	0.5 - 16	ER 25	052.325	053.325
160.225 070	25	70	32	42	0.5 - 16	ER 25	052.325	053.325
160.225 100	25	100	32	42	0.5 - 16	ER 25	052.325	053.325
160.226 050	25.40	50	32	42	0.5 - 16	ER 25	052.325	053.325
160.226 070	25.40	70	32	42	0.5 - 16	ER 25	052.325	053.325
160.226 100	25.40	100	32	42	0.5 - 16	ER 25	052.325	053.325
160.226 120	25.40	120	32	42	0.5 - 16	ER 25	052.325	053.325
160.230 070	30	70	32	42	0.5 - 16	ER 25	052.325	053.325
160.231 070	31.75	70	32	42	0.5 - 16	ER 25	052.325	053.325
160.232 070	32	70	32	42	0.5 - 16	ER 25	052.325	053.325
160.232 100	32	100	32	42	0.5 - 16	ER 25	052.325	053.325
160.244 155	44.45	155	28	42	0.5 - 16	ER 25	052.325	053.325

ER 25

MANDRINI PORTA PINZE CON GHIERA STANDARD

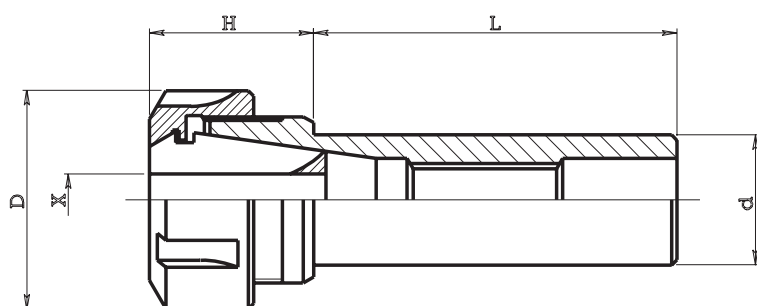
COLLET SPINDLE WITH STANDARD CLAMPING NUT



Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
160.319 050	19.05	50	53	50	1 - 20	ER 32	052.332	053.332
160.320 050	20	50	53	50	1 - 20	ER 32	052.332	053.332
160.322 050	22	50	53	50	1 - 20	ER 32	052.332	053.332
160.325 050	25	50	53	50	1 - 20	ER 32	052.332	053.332
160.325 070	25	70	53	50	1 - 20	ER 32	052.332	053.332
160.325 100	25	100	53	50	1 - 20	ER 32	052.332	053.332
160.326 050	25.40	50	53	50	1 - 20	ER 32	052.332	053.332
160.326 070	25.40	70	53	50	1 - 20	ER 32	052.332	053.332
160.326 100	25.40	100	53	50	1 - 20	ER 32	052.332	053.332
160.330 050	30	50	45	50	1 - 20	ER 32	052.332	053.332
160.330 070	30	70	45	50	1 - 20	ER 32	052.332	053.332
160.330 140	30	140	45	50	1 - 20	ER 32	052.332	053.332
160.331 050	31.75	50	45	50	1 - 20	ER 32	052.332	053.332
160.331 070	31.75	70	45	50	1 - 20	ER 32	052.332	053.332
160.332 050	32	50	45	50	1 - 20	ER 32	052.332	053.332
160.332 070	32	70	45	50	1 - 20	ER 32	052.332	053.332
160.332 100	32	100	45	50	1 - 20	ER 32	052.332	053.332
160.332 140	32	140	45	50	1 - 20	ER 32	052.332	053.332
160.335 050	35	50	27	50	1 - 20	ER 32	052.332	053.332
160.335 070	35	70	27	50	1 - 20	ER 32	052.332	053.332
160.338 140	38.10	140	45	50	1 - 20	ER 32	052.332	053.332
160.340 085	40	85	45	50	1 - 20	ER 32	052.332	053.332
160.340 155	40	155	30	50	1 - 20	ER 32	052.332	053.332
160.344 085	44.45	85	45	50	1 - 20	ER 32	052.332	053.332
160.344 155	44.45	155	30	50	1 - 20	ER 32	052.332	053.332
160.350 155	50	155	30	50	1 - 20	ER 32	052.332	053.332
160.351 155	50.80	155	30	50	1 - 20	ER 32	052.332	053.332
160.360 155	60	155	30	50	1 - 20	ER 32	052.332	053.332
160.363 155	63.50	155	30	50	1 - 20	ER 32	052.332	053.332

ER 32

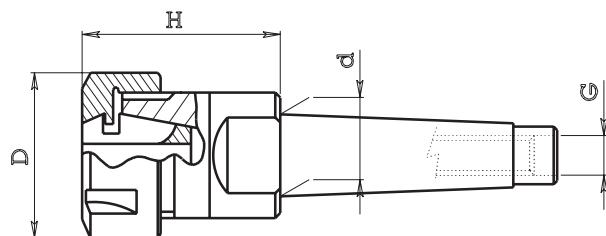
MANDRINI PORTA PINZE CON GHIERA STANDARD COLLET SPINDLE WITH STANDARD CLAMPING NUT



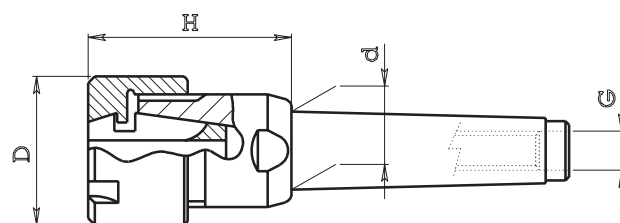
Art.	d	L	H	D	X	pinza/collet	ghiera/nut	chiave/wrench
160.425 050	25	50	60	63	2 - 30	ER 40	052.340	053.340
160.426 050	25.40	50	60	63	2 - 30	ER 40	052.340	053.340
160.431 050	31.75	50	60	63	2 - 30	ER 40	052.340	053.340
160.431 070	31.75	70	60	63	2 - 30	ER 40	052.340	053.340
160.432 070	32	70	60	63	2 - 30	ER 40	052.340	053.340
160.438 155	38.10	155	60	63	2 - 30	ER 40	052.340	053.340
160.440 050	40	50	60	63	2 - 30	ER 40	052.340	053.340
160.440 080	40	80	60	63	2 - 30	ER 40	052.340	053.340
160.440 155	40	155	60	63	2 - 30	ER 40	052.340	053.340
160.444 155	44.45	155	45	63	2 - 30	ER 40	052.340	053.340
160.450 170	50	170	35	63	2 - 30	ER 40	052.340	053.340
160.451 170	50.80	170	35	63	2 - 30	ER 40	052.340	053.340
160.460 170	60	170	35	63	2 - 30	ER 40	052.340	053.340
160.463 170	63.50	170	35	63	2 - 30	ER 40	052.340	053.340

ER 40

MANDRINI PORTA PINZA A CONO MORSE MORSE TAPER SHANK COLLET CHUCKS



GHIERA STANDARD - STANDARD NUT



GHIERA MINI - MINI NUT

Art.	M.T.	d	G	H	D	pinza/collet
163.701	C.M.1	12.065	M6	25	19	ER 11
163.001	C.M.1	12.065	M6	40	28	ER 16
163.002	C.M.2	17.780	M10	42	28	ER 16
163.102	C.M.2	17.780	M10	50	34	ER 20
163.202	C.M.2	17.780	M10	54	42	ER 25
163.203	C.M.3	23.825	M12	53	42	ER 25
163.303	C.M.3	23.825	M12	70	50	ER 32
163.403	C.M.3	23.825	M12	80	63	ER 40
163.304	C.M.4	31.267	M16	60	50	ER 32
163.404	C.M.4	31.267	M16	81	63	ER 40

Art.	M.T.	d	G	H	D	pinza/collet
164.701	C.M.1	12.065	M6	25	16	ER 11
164.001	C.M.1	12.065	M6	40	22	ER 16
164.002	C.M.2	17.780	M10	42	22	ER 16
164.102	C.M.2	17.780	M10	50	28	ER 20
164.202	C.M.2	17.780	M10	54	35	ER 25
164.003	C.M.3	23.825	M12	43	22	ER 16
164.103	C.M.3	23.825	M12	47	28	ER 20
164.203	C.M.3	23.825	M12	58	35	ER 25

MANDRINO PORTA PINZE CON GHIERA MINI COLLET SPINDLE WITH MINI CLAMPING NUT

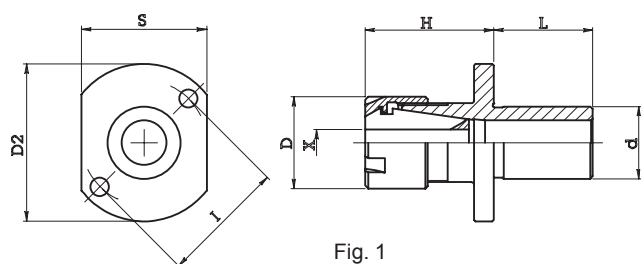


Fig. 1

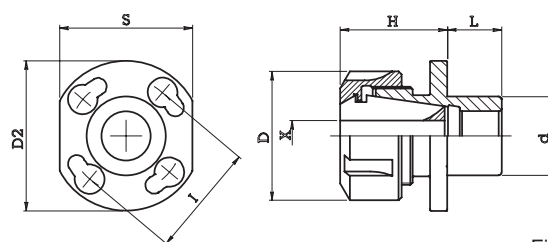


Fig. 2

	Art.	d	L	H	D	X	D2	S	I	pinza/collet	ghiera/nut	Fig.
	165.016.021	16	21	28	22	0.5-10	40	24	31	ER 16	052.116	1
STAR SR 20	165.022.025	22	25	39	22	0.5 - 10	49	28	40	ER 16	052.116	1
STAR SR 32	165.122.025	22	25	40	28	0.5 - 13	49	28	40	ER 20	052.120	1
STAR SR 20	165.122.030	22	30	35	28	0.5 - 13	48	38	38	ER 20	052.120	1
STAR SR 32	165.122.030B	22	30	35	28	0.5 - 13	60	38	50	ER 20	052.120	1
GILDEM. GM32-35-42	166.332.022	32	22	36	50	1 - 20	61	54	46	ER 32	052.332	2

FERMO BARRA ROTANTE

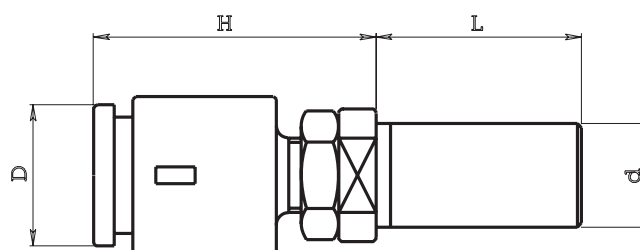
ADJUSTABLE STOP - SHOCK ABSORBER FOR LATHES

Art.	d	L	H min	H max	D
170.115	15.875	32	36	62	20
170.116	16	32	36	62	20
170.119	19.05	32	36	62	20

170.219	19.05	46	45	75	26
170.220	20	46	45	75	26
170.222	22	46	45	75	26
170.225	25	46	45	75	26
170.226	25.40	46	45	75	26

170.319	19.05	46	62	100	35
170.320	20	46	62	100	35
170.322	22	46	62	100	35
170.325	25	50	62	100	35
170.326	25.40	50	62	100	35
170.330	30	50	62	100	35
170.331	31.75	50	62	100	35
170.332	32	50	62	100	35
170.340	40	85	62	100	35

170.425	25	50	62	100	56
170.426	25.40	50	62	100	56
170.430	30	50	62	100	56
170.431	31.75	50	62	100	56
170.432	32	50	62	100	56
170.440	40	85	62	100	56



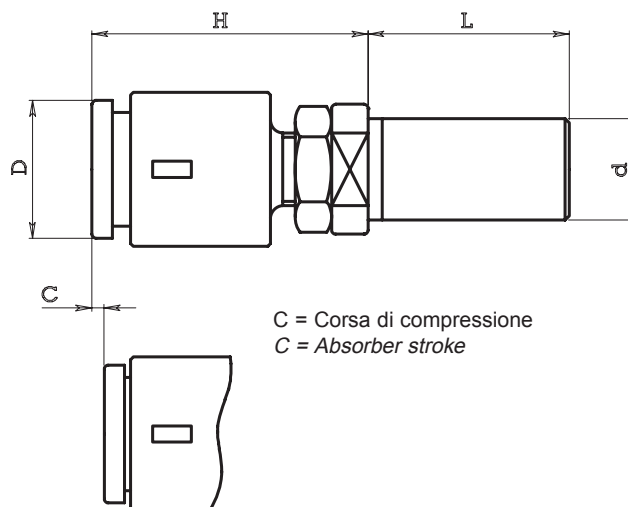
Il 170.2.. si può avere anche con il piattello rotante
di diametro D = 35

Code 170.2.. is available with D = 35

FERMO BARRA ROTANTE COMPENSATO

ADJUSTABLE STOP - SHOCK ABSORBER FOR LATHES WITH SPRINGS

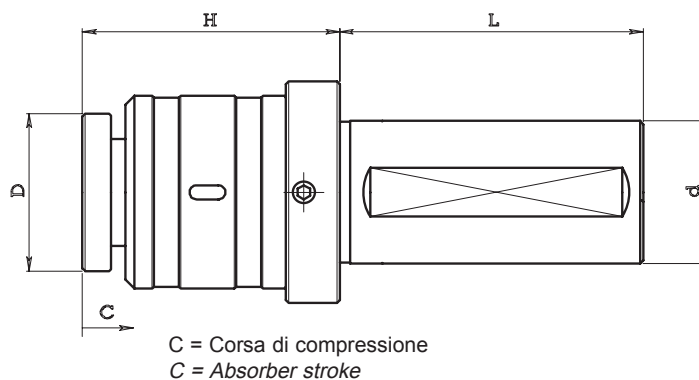
Art.	d	L	H min	H max	D	C
170.319B	19.05	46	62	100	35	3
170.320B	20	46	62	100	35	3
170.322B	22	46	62	100	35	3
170.325B	25	50	62	100	35	3
170.326B	25.40	50	62	100	35	3
170.330B	30	50	62	100	35	3
170.331B	31.75	50	62	100	35	3
170.332B	32	50	62	100	35	3
170.340B	40	85	62	100	35	3
170.425B	25	50	62	100	56	3
170.426B	25.40	50	62	100	56	3
170.430B	30	50	62	100	56	3
170.431B	31.75	50	62	100	56	3
170.432B	32	50	62	100	56	3
170.440B	40	85	62	100	56	3



FERMO BARRA ROTANTE COMPENSATO

ADJUSTABLE STOP - SHOCK ABSORBER FOR LATHES

Art.	d	L	H min	H max	D	C
170.532B	32	70	72	80	44	3
170.540B	40	85	72	80	44	3
170.632B	32	70	72	80	60	3
170.640B	40	85	72	80	60	3



CONTROPUNTA ROTANTE CON COMPRESSIONE REVOLVING TAILSTOCK WITH COMPRESSION

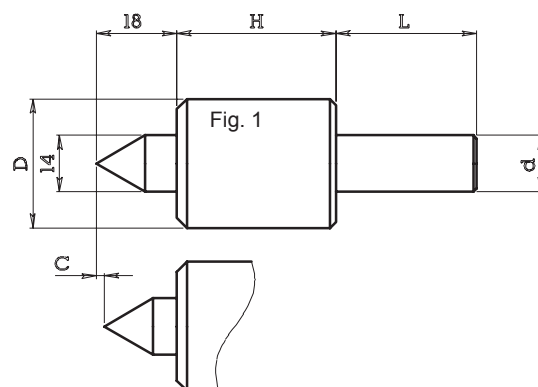
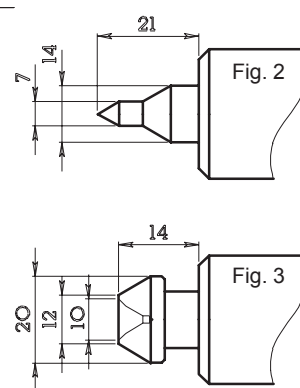
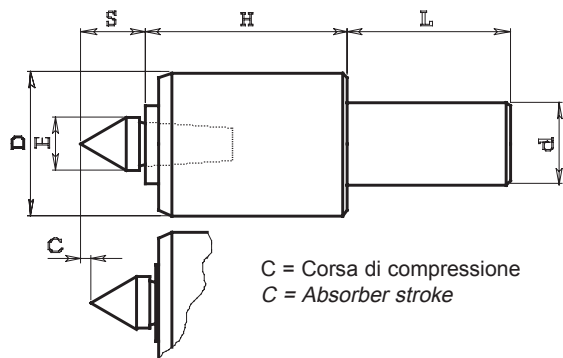


FIG. 1	Art. FIG. 2	FIG. 3	d	D	H	L	C	Center
172.208 F1	172.208 F2	172.208 F3	8	32	39.5	35	2	60°
172.210 F1	172.210 F2	172.210 F3	10	32	39.5	35	2	60°
172.212 F1	172.212 F2	172.212 F3	12	32	39.5	35	2	60°
172.214 F1	172.214 F2	172.214 F3	14	32	39.5	35	2	60°
172.215 F1	172.215 F2	172.215 F3	15.875	32	39.5	35	2	60°
172.216 F1	172.216 F2	172.216 F3	16	32	39.5	35	2	60°
172.219 F1	172.219 F2	172.219 F3	19.05	32	39.5	46	2	60°
172.220 F1	172.220 F2	172.220 F3	20	32	39.5	46	2	60°
172.222 F1	172.222 F2	172.222 F3	22	32	39.5	46	2	60°
172.225 F1	172.225 F2	172.225 F3	25	32	39.5	46	2	60°
172.226 F1	172.226 F2	172.226 F3	25,40	32	39.5	46	2	60°



C = Corsa di compressione
C = Absorber stroke

CONTROPUNTA ROTANTE CON COMPRESSIONE REVOLVING TAILSTOCK WITH COMPRESSION



Art.	d	D	E	H	L	S	C
172.308	8	32	14	44	35	16	2
172.310	10	32	14	44	35	16	2
172.312	12	32	14	44	35	16	2
172.314	14	32	14	44	35	16	2
172.315	15.875	32	14	44	35	16	2
172.316	16	32	14	44	35	16	2
172.319	19.05	32	14	44	46	16	2
172.320	20	32	14	44	46	16	2
172.322	22	32	14	44	46	16	2
172.325	25	32	14	44	46	16	2
172.326	25.40	32	14	44	46	16	2

La contropunta viene fornita con cuspidi art. 172.301 - salvo diversa identificazione.
The revolving tailstock is provided with code 172.301 (interchangeable insert).

CUSPIDI INTERCAMBIABILI PER CONTROPUNTA INTERCHANGEABLE INSERT

PER ARTICOLO (FOR CODE): 172.300

Art.	Fig.	E	S	G	F	Punta/Center
172.301	1	14	16	-	-	60°
172.302	2	14	22	7	-	60°
172.303	3	20	12	12	10	60°

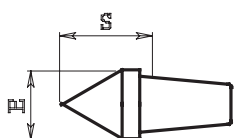


FIG. 1

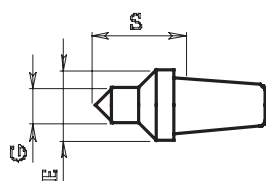


FIG. 2

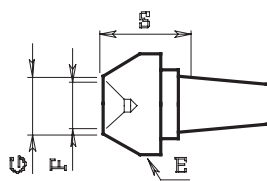
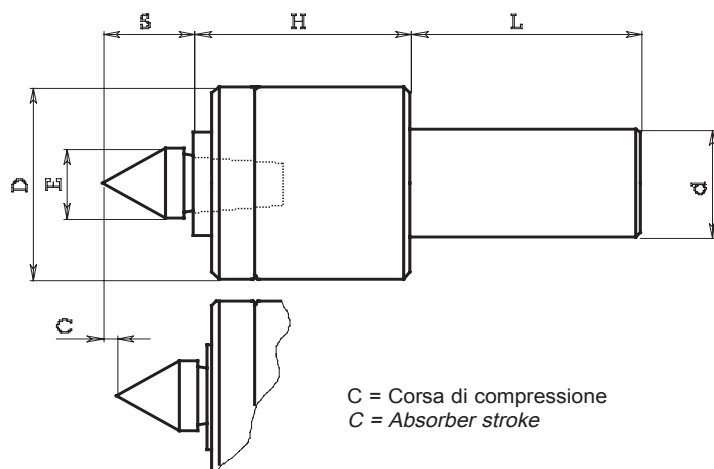


FIG. 3



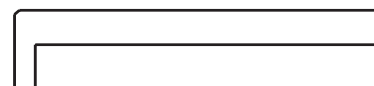
CONTROPUNTA ROTANTE CON COMPRESSIONE REVOLVING TAILSTOCK WITH COMPRESSION



Art.	d	D	E	H	L	S	C
172.419	19.05	43	18	43	46	21	3
172.420	20	43	18	43	46	21	3
172.422	22	43	18	43	46	21	3
172.425	25	43	18	43	46	21	3
172.426	25.40	43	18	43	46	21	3
172.430	30	43	18	43	46	21	3
172.431	31.75	43	18	43	46	21	3
172.432	32	43	18	43	46	21	3
172.400 CM2	C.M.2	43	18	43	69	21	3
172.400 CM3	C.M.3	43	18	43	85	21	3

N.B. La contropunta viene fornita con cuspidi art. 172.401
- salvo diversa richiesta
The revolving tailstock is provided with code 172.401
(interchangeable insert)

CHIAVI PER ESTRAZIONE
CUSPIDI ART. 172.411
PULLER CODE 172.411



CUSPIDI INTERCAMBIABILI PER CONTROPUNTA INTERCHANGEABLE INSERT FOR REVOLVING TAILSTOCK

Art.	Fig.	E	S	G	Center
172.401	1	18	21	—	60°
172.401 090	1	18	28	—	90°
172.402	2	18	27	7	60°
172.402B	2	18	38	9	60°
172.403	3	30	21	14	60°
172.404	4	26	20	20	—

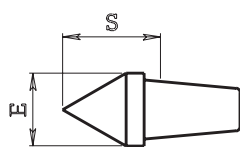


Fig. 1

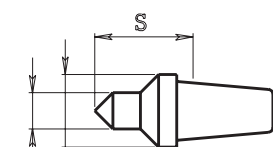


Fig. 2

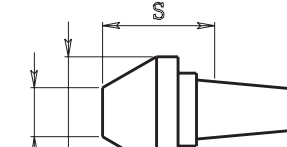


Fig. 3

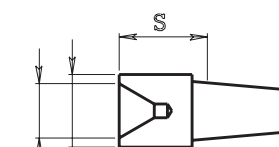
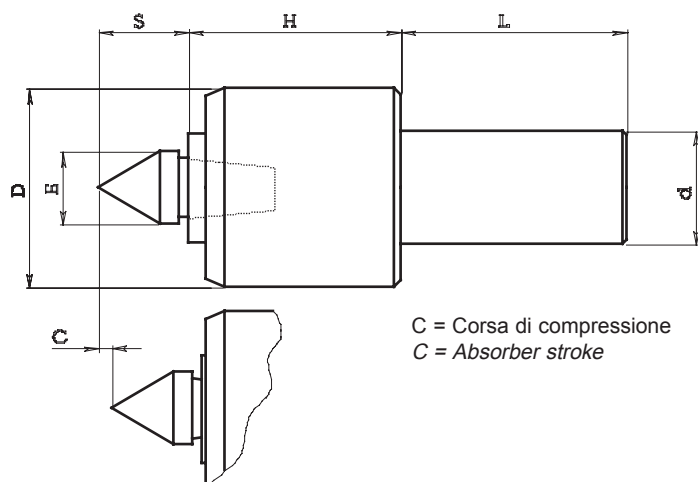


Fig. 4

CONTROPUNTA ROTANTE CON COMPRESSIONE REVOLVING TAILSTOCK WITH COMPRESSION



Art.	d	D	E	H	L	S	C
172.625	25	58	28	71	50	34	2,5
172.626	25.40	58	28	71	50	34	2,5
172.632	32	58	28	71	70	34	2,5
172.640	40	58	28	71	85	34	2,5
172.600 CM3	C.M.3	58	28	71	85	34	2,5
172.600 CM4	C.M.4	58	28	71	109	34	2,5

N.B. La contropunta viene fornita con cuspidi art. 172.601
- salvo diversa richiesta
*The revolving tailstock is provided with code 172.601
(interchangeable insert)*

CUSPIDI INTERCAMBIABILI PER CONTROPUNTA 172.600 INTERCHANGEABLE INSERT FOR CODE: 172.600

Art.	Fig.	E	S	G	Center
172.601	1	28	34	—	60°
172.602	2	28	40	7	60°
172.602B	2	28	40	12	60°
172.603	3	58	36	25	60°
172.604	4	28	32	24	—

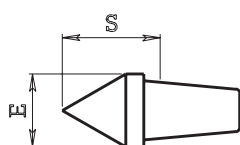


Fig. 1

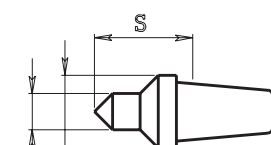


Fig. 2

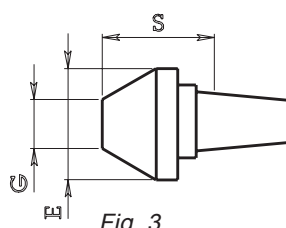


Fig. 3

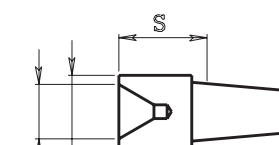
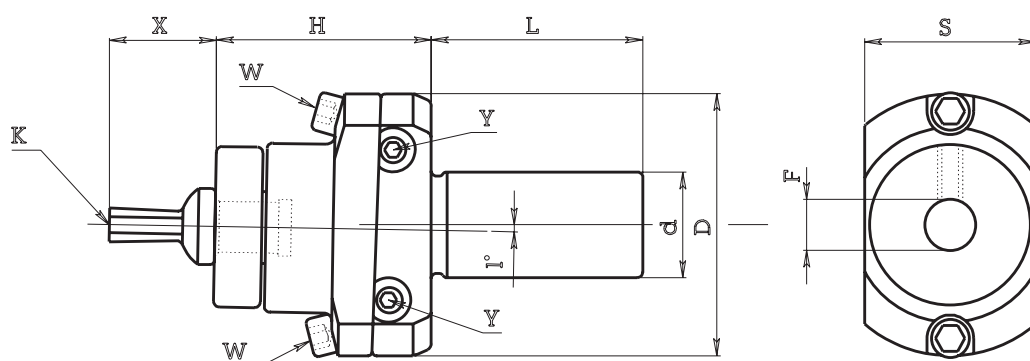


Fig. 4

BROCCIATORE REGISTRABILE

ADJUSTABLE BROACH TOOLHOLDER



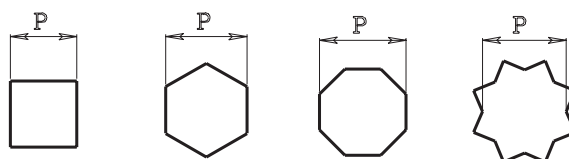
Art.	d	H	L	D	F	S
175.102	C.M.2	34	68	50	8	30
175.110	10	34	35	50	8	30
175.112	12	34	35	50	8	30
175.114	14	34	35	50	8	30
175.115	15.875	34	35	50	8	30
175.116	16	34	35	50	8	30
175.119	19.05	34	46	50	8	30
175.120	20	34	46	50	8	30
175.125	25	34	46	50	8	30
175.126	25.40	34	46	50	8	30

Su questo brocciatore va montata
la broccia art. 801 descritta a pag. 138/139
*Broach code 801 described in page 138/139
is fitted on this broach toolholder*

Art.	d	H	L	D	F	S
175.202	C.M.2	52	68	62	12	40.5
175.219	19.05	52	50	62	12	40.5
175.220	20	52	50	62	12	40.5
175.222	22	52	50	62	12	40.5
175.225	25	52	50	62	12	40.5
175.226	25.40	52	50	62	12	40.5
175.230	30	52	50	62	12	40.5
175.231	31.75	52	50	62	12	40.5
175.232	32	52	50	62	12	40.5

Su questo brocciatore va montata
la broccia art. 800 descritta a pag. 138/139
*Broach code 800 described in page 138/139
is fitted on this broach toolholder*

Esempi di alcune figure di brocche
Broach example



BROCCIATORE FISSO

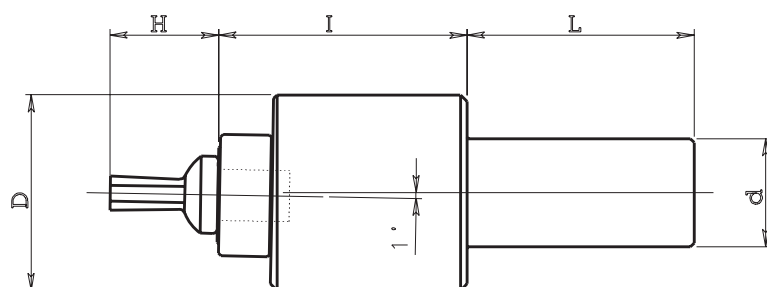
BROACH TOOLHOLDER

Art.	d	l	L	D	F	H
175.508	8	34	35	22	5	10
175.510	10	34	35	22	5	10
175.512	12	34	35	22	5	10
175.514	14	34	35	22	5	10
175.515	15.875	34	35	22	5	10
175.516	16	34	35	22	5	10
175.519	19.05	34	46	22	5	10
175.520	20	34	46	22	5	10
175.522	22	34	46	22	5	10

Su questo brocciatore va montata la broccia art. 803 descritta a pag. 130/131
Broach code 803 described in page 130/131 is fitted on this broach toolholder

Art.	d	l	L	D	F	H
175.602	C.M.2	38	69	32	8	18
175.610	10	38	35	32	8	18
175.612	12	38	35	32	8	18
175.614	14	38	35	32	8	18
175.615	15.875	38	35	32	8	18
175.616	16	38	35	32	8	18
175.619	19.05	38	50	32	8	18
175.620	20	38	50	32	8	18
175.622	22	38	50	32	8	18
175.625	25	38	50	32	8	18
175.626	25.40	38	50	32	8	18

Su questo brocciatore va montata la broccia art. 801 descritta a pag. 138/139
Broach code 801 described in page 138/139 is fitted on this broach toolholder



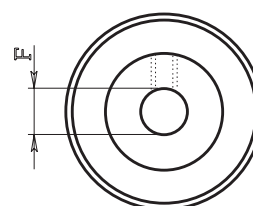
Art.	d	l	L	D	F	H
175.803	C.M.3	76	85	58	16	40
175.804	C.M.4	76	109	58	16	40
175.820	20	76	50	58	16	40
175.825	25	76	50	58	16	40
175.826	25.40	76	50	58	16	40
175.830	30	76	50	58	16	40
175.831	31.75	76	50	58	16	40
175.832	32	76	50	58	16	40
175.840	40	76	80	58	16	40

Su questo brocciatore va montata la broccia art. 802 descritta a pag. 138/139
Broach code 802 described in page 138/139 is fitted on this broach toolholder



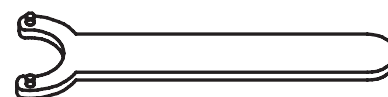
Art.	d	l	L	D	F	H
175.702	C.M.2	46	69	44	12	25
175.716	16	46	50	44	12	25
175.719	19.05	46	50	44	12	25
175.720	20	46	50	44	12	25
175.722	22	46	50	44	12	25
175.725	25	46	50	44	12	25
175.726	25.40	46	50	44	12	25
175.732	32	46	50	44	12	25

Su questo brocciatore va montata la broccia art. 800 descritta a pag. 138/139
Broach code 800 described in page 138/139 is fitted on this broach toolholder



NOTA BENE.
 Per questi brocciatori
 è importante utilizzare
 brocche con quota "H"
 come da tabella
*In this toolholders is
 important to use broa-
 ches that have "H" like
 in table*

CHIAVI PER SMONTARE CUSCINETTI
Bearing removal wrenchs

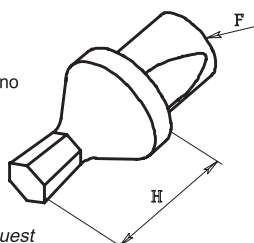


PORTABROCCE
Broach holder

Art.	For Broach toolholder
175.500 H	175.500
175.600 H	175.600
175.700 H	175.700
175.800 H	175.800

BROCCE BROACHES

Le brocche possono
essere fornite su
richiesta con
ricopertura "TiN"
Broach "TiN"
coating can be
supplied on request



BROCCE GAMBO 5 / BROACHES 5 MM SHANK

Art.	F	H	●
803001	5	10	1
8030015	5	10	1.5
803002	5	10	2
8030025	5	10	2.5
803003	5	10	3
8030035	5	10	3.5
803004	5	10	4
803005	5	10	5
8030055	5	10	5.5
803006	5	10	6

Art.	F	H	■
803101	5	10	1
8031015	5	10	1.5
803102	5	10	2
8031025	5	10	2.5
803103	5	10	3
8031035	5	10	3.5
803104	5	10	4
803105	5	10	5
8031055	5	10	5.5
803106	5	10	6

BROCCE GAMBO 8 / BROACHES 8 MM SHANK

Art.	F	H	●
801001	8	18	1
8010015	8	18	1.5
801002	8	18	2
8010025	8	18	2.5
801003	8	18	3
8010035	8	18	3.5
801004	8	18	4
801005	8	18	5
8010055	8	18	5.5
801006	8	18	6
801007	8	18	7
801008	8	18	8

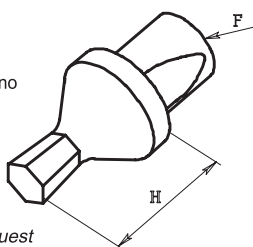
Art.	F	H	■
801102	8	18	2
8011025	8	18	2.5
801003	8	18	3
8010035	8	18	3.5
801104	8	18	4
801105	8	18	5
8011055	8	18	5.5
801106	8	18	6
801107	8	18	7

BROCCE GAMBO 12 / BROACHES 12 MM SHANK

Art.	F	H	●
800001	12	25	1
8000015	12	25	1.5
800002	12	25	2
8000025	12	25	2.5
800003	12	25	3
8000035	12	25	3.5
800004	12	25	4
800005	12	25	5
8000055	12	25	5.5
800006	12	25	6
800007	12	25	7
800008	12	25	8
800009	12	25	9
800010	12	25	10
800011	12	25	11
800012	12	25	12
800013	12	25	13
800014	12	25	14

Art.	F	H	■
800102	12	25	2
8001025	12	25	2.5
800103	12	25	3
8001035	12	25	3.5
800104	12	25	4
800105	12	25	5
8001055	12	25	5.5
800106	12	25	6
800107	12	25	7
800108	12	25	8
800109	12	25	9
800110	12	25	10
800111	12	25	11
800112	12	25	12
800113	12	25	13

Le brocche possono essere fornite su richiesta con ricopertura "TiN"
Broach "TiN" coating can be supplied on request



BROCCE GAMBO 16 / BROACHES 16 MM SHANK

Art.	F	H	●
802003	16	40	3
8020035	16	40	3,5
802004	16	40	4
802005	16	40	5
802006	16	40	6
802007	16	40	7
802008	16	40	8
802009	16	40	9
802010	16	40	10
802011	16	40	11
802012	16	40	12
802013	16	40	13
802014	16	40	14
802015	16	40	15
802016	16	40	16
802017	16	40	17
802018	16	40	18
802019	16	40	19
802020	16	40	20
802021	16	40	21
802022	16	40	22
802023	16	40	23
802024	16	40	24
802025	16	40	25

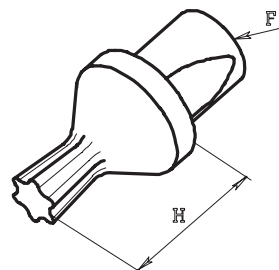
Art.	F	H	■ e
802104	16	40	4
802105	16	40	5
802106	16	40	6
802107	16	40	7
802108	16	40	8
802109	16	40	9
802110	16	40	10
802111	16	40	11
802112	16	40	12
802113	16	40	13
802114	16	40	14
802115	16	40	15
802116	16	40	16
802117	16	40	17
802118	16	40	18
802119	16	40	19
802120	16	40	20
802121	16	40	21
802122	16	40	22
802123	16	40	23
802124	16	40	24
802125	16	40	25

BROCCE PER CHIAVI TORX*

BROACH FOR TORX* KEYS

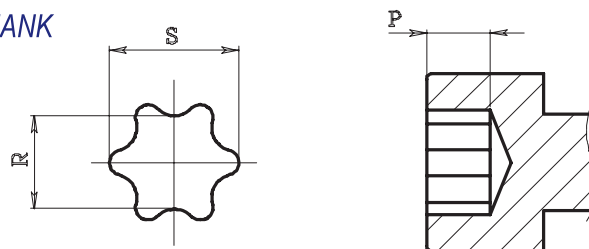
BROCCIA TORX* GAMBO 8 / TORX* BROACHES 8 MM SHANK

Art.	F	H	P	S	R	torx*
801206	8	18	0,50-0,70	1,80	1,29	6
801208	8	18	0,70-0,90	2,45	1,80	8
801210	8	18	1,00-1,30	2,85	2,07	10
801215	8	18	1,30-1,50	3,38	2,44	15
801220	8	18	1,50-1,60	3,96	2,86	20
801225	8	18	1,60-2,00	4,55	3,28	25
801227	8	18	2,00-2,40	5,10	3,65	27
801230	8	18	2,60-3,00	5,65	4,07	30



BROCCIA TORX* GAMBO 12 / TORX* BROACHES 12 MM SHANK

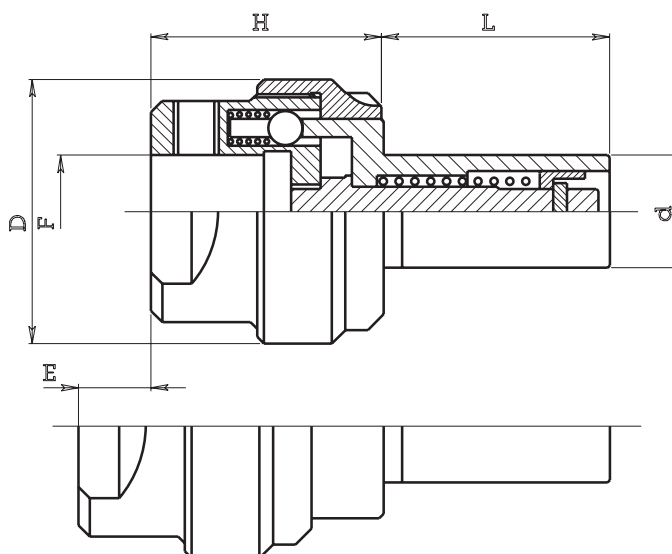
Art.	F	H	P	S	R	torx*
800206	12	25	0,50-0,70	1,80	1,29	6
800208	12	25	0,70-0,90	2,45	1,80	8
800210	12	25	1,00-1,30	2,85	2,07	10
800215	12	25	1,30-1,50	3,38	2,44	15
800220	12	25	1,50-1,60	3,96	2,86	20
800225	12	25	1,60-2,00	4,55	3,28	25
800227	12	25	2,00-2,40	5,10	3,65	27
800230	12	25	2,60-3,00	5,65	4,07	30
800240	12	25	3,00-3,30	6,80	4,88	40
800245	12	25	3,50-4,00	7,97	5,68	45
800250	12	25	4,00-4,50	8,99	6,50	50



*Torx: marchio registrato dalla Textron inc. Providence (Usa)

*Torx: trade mark registered by Textron inc. Providence (Usa)

PORTA MASCHI AD ESTRAZIONE FLOATING TAP HOLDERS WITH EXTENSION



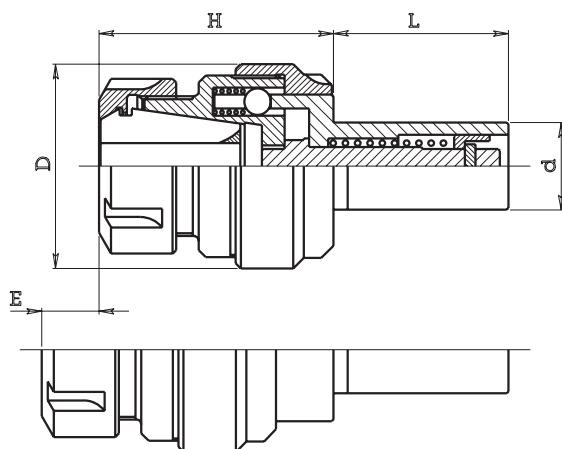
E = Corsa di estrazione
E = Extension stroke

Art.	d	L	H	D	E	F
190.115	15.875	32	29	29	8	10
190.116	16	32	29	29	8	10
190.119	19.05	32	29	29	8	10
190.120	20	32	29	29	8	10
190.219	19.05	46	40	44	12	12
190.219B	19.05	46	40	44	12	11
190.220	20	46	40	44	12	12
190.222	22	46	40	44	12	12
190.225	25	46	40	44	12	12
190.226	25.40	46	40	44	12	12
190.325	25	50	52	58	16	18
190.325L	25	80	52	58	16	18
190.326	25.40	50	52	58	16	18
190.326L	25.40	80	52	58	16	18
190.330	30	50	52	58	16	18
190.331	31.75	50	52	58	16	18
190.332	32	50	52	58	16	18
190.340	40	85	52	58	16	18

Art.	d	L	H	D	E	F
190.425	25	50	52	58	16	21
190.426	25.40	50	52	58	16	21
190.430	30	50	52	58	16	21
190.431	31.75	50	52	58	16	21
190.432	32	50	52	58	16	21
190.440	40	85	52	58	16	21
190.525	25	50	52	58	16	25
190.525L	25	80	52	58	16	25
190.526	25.40	50	52	58	16	25
190.526L	25.40	80	52	58	16	25
190.530	30	50	52	58	16	25
190.531	31.75	50	52	58	16	25
190.532	32	50	52	58	16	25
190.540	40	85	52	58	16	25

PORTA MASCHI AD ESTRAZIONE CON PINZA ER FLOATING TAP HOLDERS WITH EXTENSION - WITH ER COLLET

Pinze DIN 6499/B
Collets DIN 6499/B



E = Corsa di estrazione
H = Quota con pinza inserita
E = Extension stroke
H = Measure with collet

	Art.	d	L	H	D	E
ER 11	192.715	15.875	32	36	29	8
	192.716	16	32	36	29	8
	192.719	19.05	32	36	29	8
	192.720	20	32	36	29	8

ER 16	192.015	15.875	32	48	29	8
	192.016	16	32	48	29	8
	192.019	19.05	32	48	29	8
	192.020	20	32	48	29	8

ER 20	192.219	19.05	46	56	44	12
	192.220	20	46	56	44	12
	192.222	22	46	56	44	12
	192.225	25	46	56	44	12
	192.226	25.40	46	56	44	12

	192.419	19.05	46	70	44	12
	192.420	20	46	70	44	12
	192.422	22	46	70	44	12

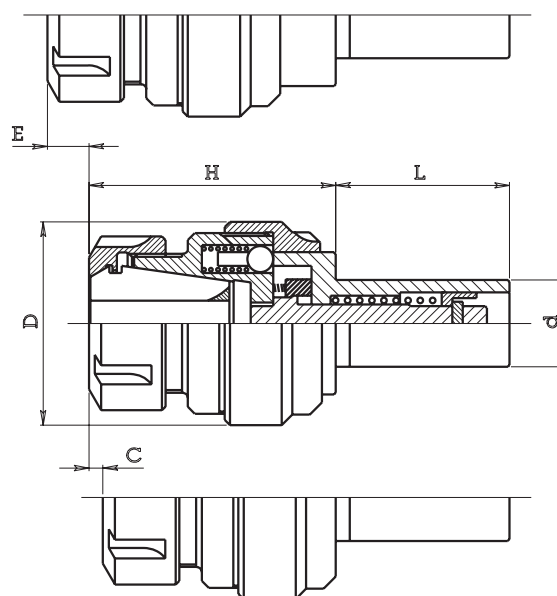
ER 25	192.325	25	50	64	58	16
	192.325L	25	80	64	58	16
	192.326	25.40	50	64	58	16
	192.326L	25.40	80	64	58	16
	192.330	30	50	64	58	16
	192.331	31.75	50	64	58	16
	192.332	32	50	64	58	16
	192.340	40	85	64	58	16

ER 32	192.525	25	50	66	58	16
	192.525L	25	80	66	58	16
	192.526	25.40	50	66	58	16
	192.526L	25.40	80	66	58	16
	192.530	30	50	66	58	16
	192.531	31.75	50	66	58	16
	192.532	32	50	64	58	16
	192.540	40	85	64	58	16

PORTA MASCHI AD ESTRAZIONE E COMPRESSIONE

FLOATING TAP HOLDERS WITH EXTENSION AND COMPRESSION - WITH ER COLLET

	Art.	d	L	H	D	E	C
ER 11	192.715A	15.875	32	36	29	5.5	-2.5
	192.716A	16	32	36	29	5.5	-2.5
	192.719A	19.05	32	36	29	5.5	-2.5
	192.720A	20	32	36	29	5.5	-2.5
ER 16	192.015A	15.875	32	48	29	5.5	-2.5
	192.016A	16	32	48	29	5.5	-2.5
	192.019A	19.05	32	48	29	5.5	-2.5
	192.020A	20	32	48	29	5.5	-2.5
ER 20	192.219A	19.05	46	59	44	9	-3
	192.220A	20	46	59	44	9	-3
	192.222A	22	46	59	44	9	-3
	192.225A	25	46	59	44	9	-3
	192.226A	25.40	46	59	44	9	-3
	192.419A	19.05	46	73	44	9	-3
	192.420A	20	46	73	44	9	-3
	192.422A	22	46	73	44	9	-3
ER 25	192.325A	25	50	68	58	12	-4
	192.325AL	25	80	68	58	12	-4
	192.326A	25.40	50	68	58	12	-4
	192.326AL	25.40	80	68	58	12	-4
	192.330A	30	50	68	58	12	-4
	192.331A	31.75	50	68	58	12	-4
	192.332A	32	50	68	58	12	-4
	192.340A	40	85	68	58	12	-4
ER 32	192.525A	25	50	70	58	12	-4
	192.525AL	25	80	70	58	12	-4
	192.526A	25.40	50	70	58	12	-4
	192.526AL	25.40	80	70	58	12	-4
	192.530A	30	50	70	58	12	-4
	192.531A	31.75	50	70	58	12	-4
	192.532A	32	50	70	58	12	-4
	192.540A	40	85	70	58	12	-4



E = Corsa di estrazione
 C = Corsa di compressione
 H = Quota con pinza già inserita
 E = Extension stroke
 C = Compression stroke
 H = Measure with collet

PORTA MASCHI AD ESTRAZIONE CON PINZA ER **FLOATING TAP HOLDERS WITH EXTENSION - WITH ER COLLET**

ER 11	Art.	d	L	H	D	E
	194.715 040	15.875	40	21	16	10
	194.716 040	16	40	21	16	10
	194.719 040	19.05	40	21	16	10
	194.720 040	20	40	21	16	10
	194.722 040	22	40	21	16	10
	194.725 040	25	40	21	16	10
	194.726 040	25.40	40	21	16	10

	Art.	d	L	H	D	E
	194.015 040	15.875	40	36	22	10
	194.016 040	16	40	36	22	10

ER 16	Art.	d	L	H	D	E
	194.019 050	19.05	50	30	22	14
	194.019 070	19.05	70	30	22	14
	194.019 120	19.05	120	30	22	14

	Art.	d	L	H	D	E
	194.020 050	20	50	30	22	14
	194.020 070	20	70	30	22	14
	194.020 120	20	120	30	22	14

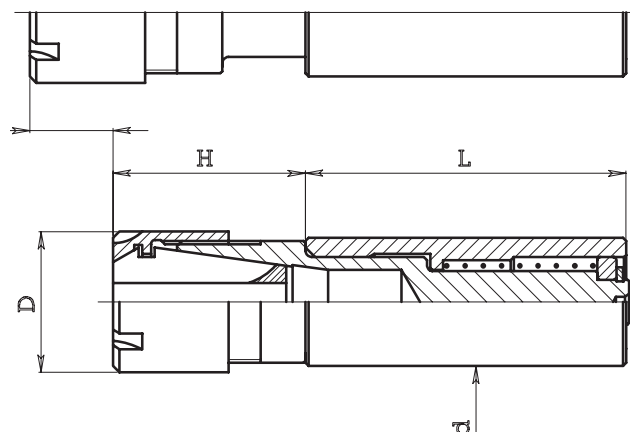
	Art.	d	L	H	D	E
	194.022 050	22	50	30	22	14
	194.022 080	22	80	30	22	14
	194.022 120	22	120	30	22	14

ER 20	Art.	d	L	H	D	E
	194.119 050	19.05	50	40	28	14
	194.119 070	19.05	70	40	28	14
	194.119 120	19.05	120	40	28	14

	Art.	d	L	H	D	E
	194.120 050	20	50	40	28	14
	194.120 070	20	70	40	28	14
	194.120 120	20	120	40	28	14

	Art.	d	L	H	D	E
	194.122 050	22	50	40	28	14
	194.122 080	22	80	40	28	14
	194.122 120	22	120	40	28	14

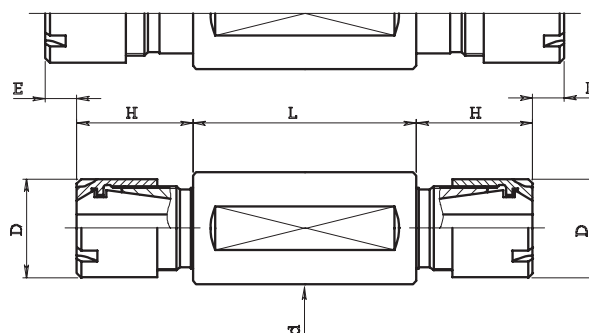
	Art.	d	L	H	D	E
	194.125 050	25	50	40	28	14
	194.125 070	25	70	40	28	14
	194.125 120	25	120	40	28	14



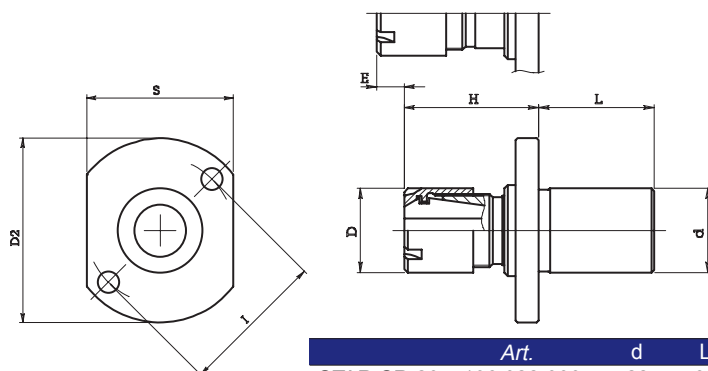
ER 25	Art.	d	L	H	D	E
	194.219 050	19.05	50	42	35	14
	194.219 070	19.05	70	42	35	14
	194.219 120	19.05	120	42	35	14

PORTA MASCHIO DOPPIO AD ESTRAZIONE - GHIERA MINI DOUBLE - SEATED FLOATING TAP HOLDER WITH EXTENSION

Art.	d	L	H	D	X	pinza/collet	E
195.719 050	19.05	50	16.5	16	0.5 - 7	ER 11	8
195.719 060	19.05	60	16.5	16	0.5 - 7	ER 11	8
195.720 050	20	50	16.5	16	0.5 - 7	ER 11	8
195.720 060	20	60	16.5	16	0.5 - 7	ER 11	8
195.722 050	22	50	16.5	16	0.5 - 7	ER 11	8
195.722 060	22	60	16.5	16	0.5 - 7	ER 11	8
195.022 050	22	50	26	22	0.5 - 10	ER 16	8
195.022 060	22	60	26	22	0.5 - 10	ER 16	8
195.022 095	22	95	26	22	0.5 - 10	ER 16	8
195.025 050	25	50	26	22	0.5 - 10	ER 16	8
195.025 060	25	60	26	22	0.5 - 10	ER 16	8
195.026 050	25.40	50	26	22	0.5 - 10	ER 16	8
195.026 060	25.40	60	26	22	0.5 - 10	ER 16	8



MANDRINO PORTA MASCHIO AD ESTRAZIONE TAP HOLDER SPINDLE WITH MINI CLAMPING NUT

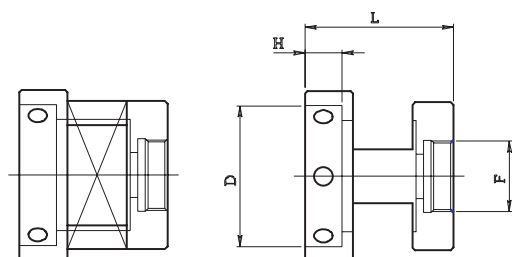


Pinze DIN 6499/B
Collets DIN 6499/B

Art.	d	L	H	D	X	D2	S	I	pinza/collet	E
STAR SR 20 196.022 030	22	30	36	22	0.5 - 10	48	38	38	ER 16	8
STAR SR 32 196.022 030B	22	30	36	22	0.5 - 10	60	38	50	ER 16	8

PORTA FILIERA PER TORNII A FANTINA MOBILE DIE HOLDER FOR AUTOMATIC SLIDING HEADSTOCK LATHES

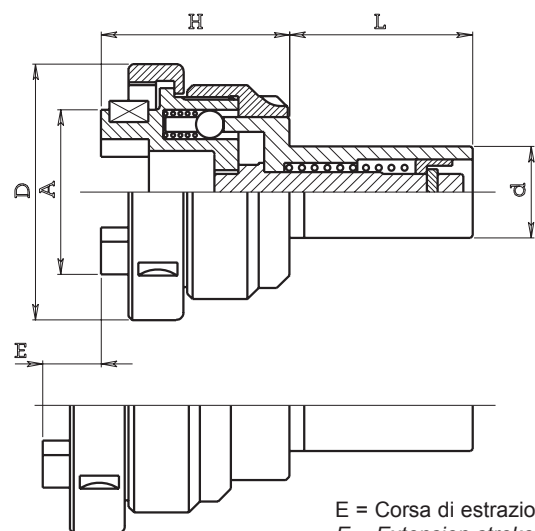
Può essere montato sul porta maschi: 194.000 - 195.000
Can be used on tap holder: 194.000 - 195.000



Art.	D	H	L	F
382.716 025	16	5	25	19x1
382.716 040	16	5	40	19x1
382.720 025B	20	5	25	19x1
382.720.040B	20	5	40	19x1
382.720 025	20	7	25	19x1
382.720 040	20	7	40	19x1
382.725 025	25	9	25	19x1
382.725 040	25	9	40	19x1
382.730 040	30	11	40	19x1
382.738 040	38	10	40	19x1

PORTA FILIERA AD ESTRAZIONE FLOATING DIE HOLDER WITH EXTENSION

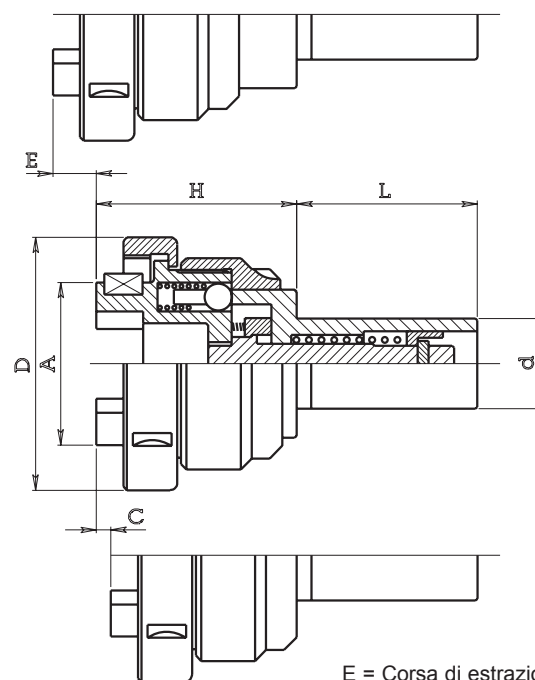
Art.	d	L	H	D	A	Cap.	E
210.115	15.875	32	33	36	21	218....	8
210.116	16	32	33	36	21	218....	8
210.119	19.05	32	33	36	21	218....	8
210.120	20	32	33	36	21	218....	8
210.219	19.05	46	42	57	32	220....	12
210.220	20	46	42	57	32	220....	12
210.222	22	46	42	57	32	220....	12
210.225	25	46	42	57	32	220....	12
210.226	25.40	46	42	57	32	220....	12
210.325	25	50	51	70	45	230....	16
210.325L	25	80	51	70	45	230....	16
210.326	25.40	50	51	70	45	230....	16
210.326L	25.40	80	51	70	45	230....	16
210.330	30	50	51	70	45	230....	16
210.331	31.75	50	51	70	45	230....	16
210.332	32	50	51	70	45	230....	16
210.340	40	85	51	70	45	230....	16



E = Corsa di estrazione
E = Extension stroke

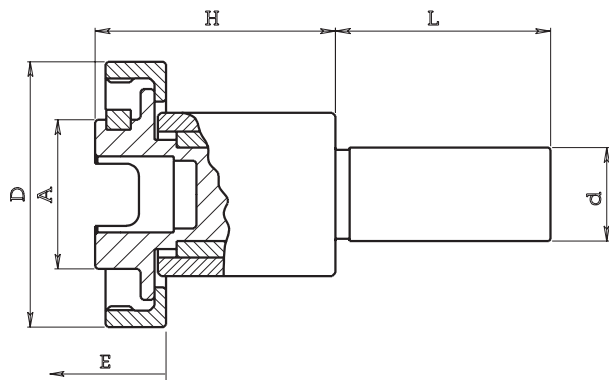
PORTA FILIERA AD ESTRAZIONE E COMPRESSIONE FLOATING DIE HOLDER WITH EXTENSION AND COMPRESSION

Art.	d	L	H	D	A	Cap.	E	C
210.115A	15.875	32	33	36	21	218....	5.5	-2.5
210.116A	16	32	33	36	21	218....	5.5	-2.5
210.119A	19.05	32	33	36	21	218....	5.5	-2.5
210.120A	20	32	33	36	21	218....	5.5	-2.5
210.219A	19.05	46	45	57	32	220....	9	-3
210.220A	20	46	45	57	32	220....	9	-3
210.222A	22	46	45	57	32	220....	9	-3
210.225A	25	46	45	57	32	220....	9	-3
210.226A	25.40	46	45	57	32	220....	9	-3
210.325A	25	50	55	71	45	230....	12	-4
210.325AL	25	80	55	71	45	230....	12	-4
210.326A	25.40	50	55	71	45	230....	12	-4
210.326AL	25.40	80	55	71	45	230....	12	-4
210.330A	30	50	55	71	45	230....	12	-4
210.331A	31.75	50	55	71	45	230....	12	-4
210.332A	32	50	55	71	45	230....	12	-4
210.340A	40	85	55	71	45	230....	12	-4



E = Corsa di estrazione
C = Corsa di compressione
E = Extension stroke
C = Compression stroke

PORTA FILIERA CON ESTRAZIONE MAGGIORATA FLOATING DIE HOLDER (BIGGER EXTENSION)



E = Corsa di estrazione
E = Extension stroke

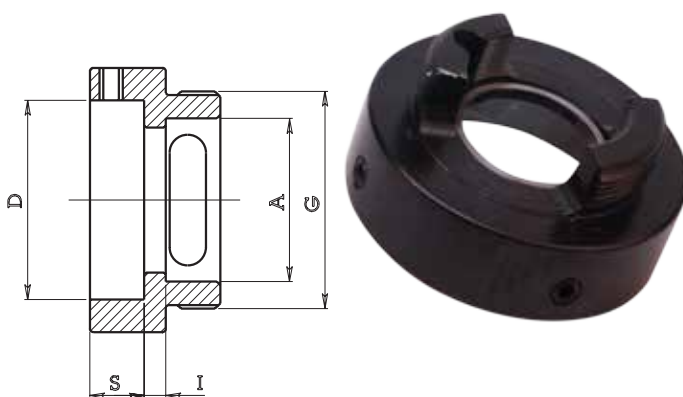


Art.	d	H	L	D	A	Cap.	E
211.216	16	51	46	57	32	220....	22
211.219	19.05	51	46	57	32	220....	22
211.220	20	51	46	57	32	220....	22
211.222	22	51	46	57	32	220....	22
211.216L	16	59	46	57	32	220....	30
211.326	25.40	65	80	71	45	230....	30

CAPPELLOTTI PORTA FILIERA DIE HOLDER CAPS

Art.	D	S	I	A	G
220.116	16	5	5	32	SG 48x1.5
220.120	20	5	5	32	SG 48x1.5
220.220	20	7	3	32	SG 48x1.5
220.125	25	9	3	32	SG 48x1.5
220.130	30	11	3	32	SG 48x1.5
220.138	38	10	6	32	SG 48x1.5
220.238	38	14	3	32	SG 48x1.5
220.145	45	14	3	32	SG 48x1.5
220.245	45	18	3	32	SG 48x1.5
220.150	50	16	4	32	SG 48x1.5
220.155	55	16	4	32	SG 48x1.5

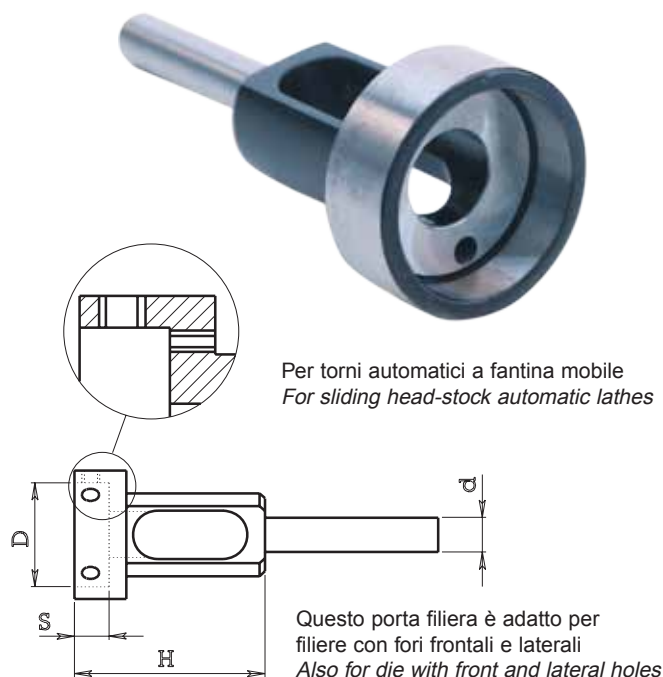
Art.	D	S	I	A	G
230.220	20	7	9	45	SG 60x1.5
230.125	25	9	7	45	SG 60x1.5
230.130	30	11	5	45	SG 60x1.5
230.138	38	10	6	45	SG 60x1.5
230.238	38	14	3	45	SG 60x1.5
230.145	45	14	3	45	SG 60x1.5
230.245	45	18	4	45	SG 60x1.5
230.150	50	16	6	45	SG 60x1.5
230.155	55	16	6	45	SG 60x1.5
230.165	65	18	6	45	SG 60x1.5
230.175	75	20	6	45	SG 60x1.5



Art.	D	S	I	A	G
218.116	16	5	2	21	28x1
218.120	20	5	2	21	28x1
218.120B	20	7	2	21	28x1
218.125	25	9	2	21	28x1
218.130	30	11	3	21	28x1

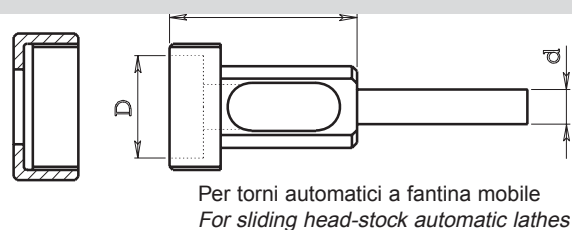
PORTA FILIERA SENZA GHIERA DIE HOLDER WITHOUT NUT

Art.	D	S	d	H
380.116	16	5	6	39
380.116B	16	5	8	39
380.120	20	5	6	42
380.120B	20	5	8	42
380.120C	20	7	6	42
380.120D	20	7	8	42
380.125	25	9	8	50
380.125B	25	9	10	50
380.130	30	11	8	56
380.130B	30	11	10	56
380.135	35	12	10	56
380.135B	35	12	8	56
380.138	38	10	12	56
380.138C	38	14	12	56



PORTA FILIERA CON GHIERA DIE HOLDER WITH NUT

Art.	D	d	H
380.616	16	6	39
380.616B	16	8	39
380.620	20	6	42
380.620B	20	8	42
380.625	25	8	50
380.625B	25	10	50
380.630	30	8	56
380.630B	30	10	56
380.635	35	10	56



380.616 1	ghiera per art. 380.616 (nut for code 380.616)
380.620 1	ghiera per art. 380.620 (nut for code 380.620)
380.625 1	ghiera per art. 380.625 (nut for code 380.625)
380.630 1	ghiera per art. 380.630 (nut for code 380.630)

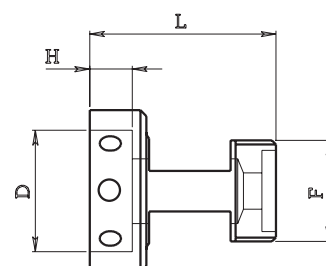
PORTA FILIERA PER APPARECCHIO FORA FILETTI DIE HOLDER FOR DRILL-THREAD DEVICE

TRAUB A 15-20-25

Art.	D	H	L	F
382.112	12	4	32	25x1.5 sx
382.116	16	5	32	25x1.5 sx
382.120	20	7	32	25x1.5 sx
382.125	25	9	32	25x1.5 sx
382.130	30	11	32	25x1.5 sx
382.138	38	14	32	25x1.5 sx

Art.	D	H	L	F
382.212	12	4	46	25x1.5 sx
382.216	16	5	46	25x1.5 sx
382.220	20	7	46	25x1.5 sx
382.225	25	9	46	25x1.5 sx
382.230	30	11	46	25x1.5 sx
382.238	38	14	46	25x1.5 sx

Art.	D	H	L	F
382.312	12	4	62	25x1.5 sx
382.316	16	5	62	25x1.5 sx
382.320	20	7	62	25x1.5 sx
382.325	25	9	62	25x1.5 sx
382.330	30	11	62	25x1.5 sx
382.338	38	14	62	25x1.5 sx

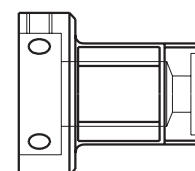


SAIC B26-30 / ITS 26 / GIORGI 20-25-30

Art.	D	H	L	F
382.412	12	4	32	26x1.5 sx
382.416	16	5	32	26x1.5 sx
382.420	20	7	32	26x1.5 sx
382.425	25	9	32	26x1.5 sx
382.430	30	11	32	26x1.5 sx
382.438	38	14	32	26x1.5 sx

Art.	D	H	L	F
382.512	12	4	46	26x1.5 sx
382.516	16	5	46	26x1.5 sx
382.520	20	7	46	26x1.5 sx
382.525	25	9	46	26x1.5 sx
382.530	30	11	46	26x1.5 sx
382.538	38	14	46	26x1.5 sx

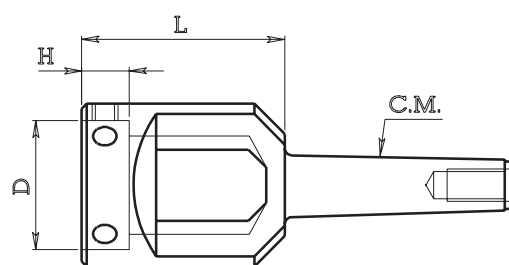
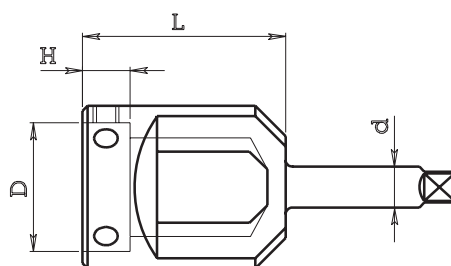
Art.	D	H	L	F
382.612	12	4	62	26x1.5 sx
382.616	16	5	62	26x1.5 sx
382.620	20	7	62	26x1.5 sx
382.625	25	9	62	26x1.5 sx
382.630	30	11	62	26x1.5 sx
382.638	38	14	62	26x1.5 sx



PORTA FILIERA PER MASCHIATRICI E TRAPANI DIE HOLDERS FOR TAPPING AND DRILLING MACHINES

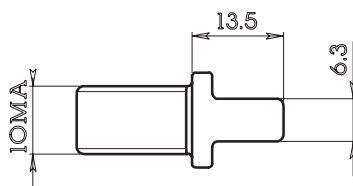
Art.	D	H	d	L
384.116	16	5	9	60
384.120	20	7	9	60
384.125	25	9	9	60
384.130	30	11	9	60
384.138	38	10	12	60
384.138B	38	14	12	60
384.145	45	14	15	66
384.145B	45	18	15	66

Art.	D	H	L	cono morse (M.T.)
384.716	16	5	60	C.M.2
384.720	20	7	60	C.M.2
384.725	25	9	60	C.M.2
384.730	30	11	60	C.M.2
384.738	38	10	60	C.M.2
384.738B	38	14	60	C.M.2
384.745	45	14	66	C.M.2
384.745B	45	18	66	C.M.2



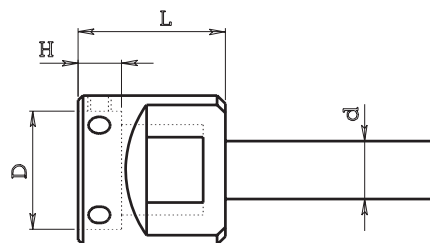
CODULO DI TRASCINAMENTO PER CONO MORSE 2 DRIVING SHAFT PIN FOR MT2

ART. 164.992
code 164.992

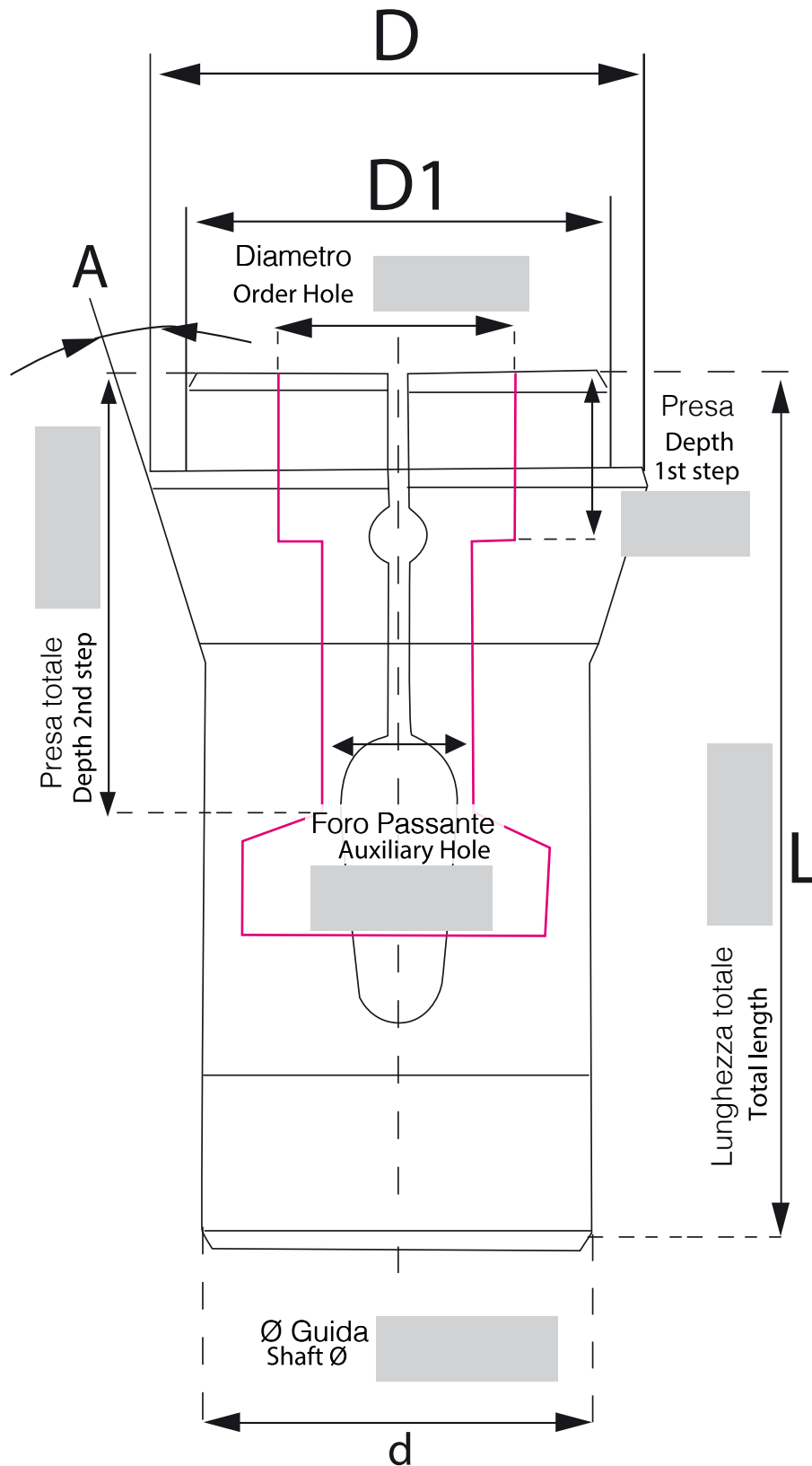


PORTA FILIERA PER TORNI PLURIMANDRINO DIE HOLDER FOR MULTISPINDLE LATHES

Art.	D	H	d	L
380.525	25	9	20	35
380.530	30	11	20	35
380.538	38	10	20	35
380.538B	38	14	20	40
380.545	45	14	20	40
380.545B	45	18	20	40
380.550	50	16	20	40
380.555B	55	16	20	40



MODULO PER PINZA CON BATTUTA **COLLET WITH STEPS**



Tipo pinza
Collet Type

Rivestimento metallo duro ☐
HM Coating

NOTE:

Handwriting practice area with 25 horizontal dotted lines.



DE-MA, società costituita nel 1999, è specializzata nel commercio e revisione di torni automatici plurimandrino e caricatori automatici di barre. L'azienda reperisce dal mercato globale macchinari di recente costruzione e di buona qualità su cui vengono effettuati lavori di manutenzione oppure revisioni complete.

Le case costruttrici prevalentemente trattate sono: Gildemeister, Index, Mori-Say, Schütte, Tornos e Wickman. Di questi marchi disponiamo, inoltre, di un magazzino particolarmente fornito di apparecchiature nuove ed usate (apparecchi a filettare, mandrini da ripresa, apparecchi a pettinare filetti, apparecchi a fresare filetti e poligoni, fresatori frontali, apparecchi a brocciare, portautensili, pinze, camme ecc.)

Oltre alla commercializzazione DE-MA offre un servizio di assistenza, riparazione e manutenzione direttamente dal cliente, sul territorio nazionale ed estero, oppure presso la nostra sede per lavori di revisione totale.

Offriamo inoltre servizi post vendita quali installazione e corsi di formazione, manutenzione, imballaggio e spedizione. I nostri tecnici sono qualificati nel soddisfare ogni tipo di intervento meccanico ed elettrico, compreso l'attrezzamento del particolare a disegno.

Established in 1999 the company DE-MA specializes in marketing and overhauling of second-hand single and multi-spindle automatic lathes and barloaders, offering used, refurbished or retro-fitted machinery.

Our stock mainly covers machinery of the world's most popular brands like Gildemeister, Index, Mori-Say, Schütte, Tornos and Wickman. We can also offer a particularly equipped warehouse with new and second hand attachments and spare-parts (threading device, pick-up, thread chasing attachment, thread milling attachment, frontal milling device, broaching attachment, toolholders, collets, cams).

As well as marketing DE-MA offers a continuative assistance, refurbishment, rebuilding and repair service both in-house and at customer company, both in the national and in the international area.

We can also offer full after-sales service from training and installation to service and international shipping and packing. Both mechanical and electrical work is carried out by our experienced staff, so that all machines are inspected, serviced and supplied in perfect working order and, by customer request, tooled up and ready for production.

RTM è specializzata nella fornitura di pinze elastiche standard e speciali eseguite a disegno per torni automatici plurimandrino, mono-mandrino, fantine mobili e caricatori di barre.

RTM specializes in the supply of standard and custom collets for multi spindle automatic lathes, single spindle lathes, cnc lathes and barloaders.



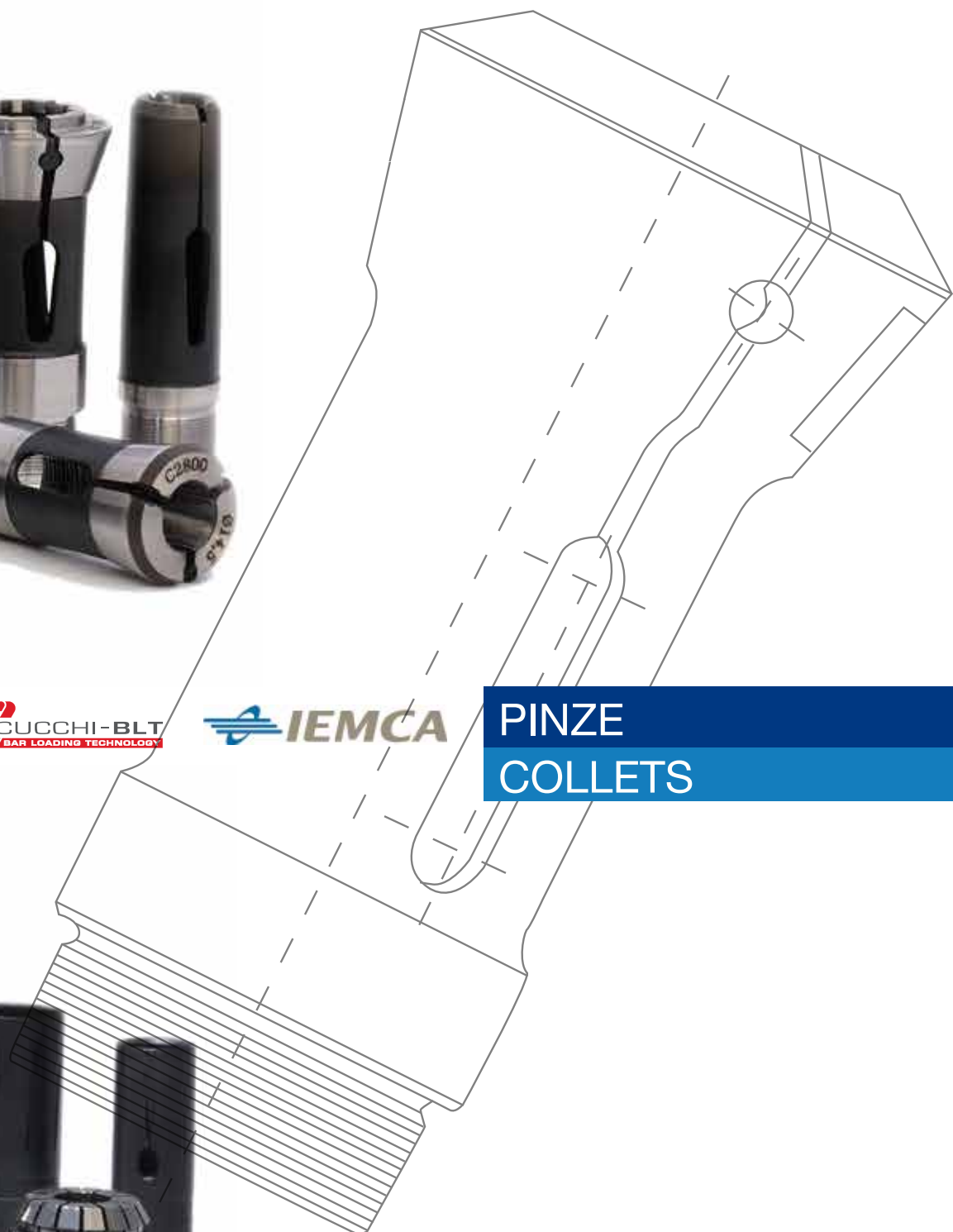
Wickman **Schütte** **GILDEMEISTER**

MORI-SAY





PINZE COLLETS



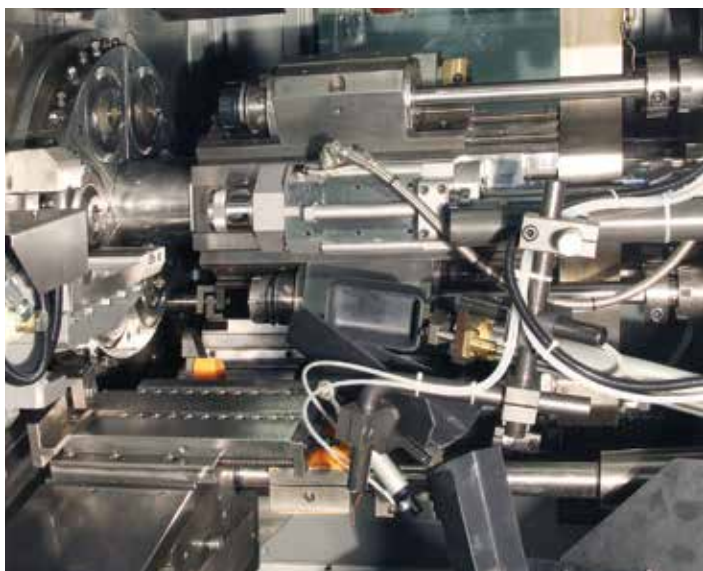


DEMA è specializzata nella fornitura, nell'installazione presso il cliente e nella revisione di attrezzature e dispositivi per torni automatici plurimandrino.

DEMA specializes in the supply, installation and overhauling of multispindle automatic lathes attachments both in-house and at customer's locations.

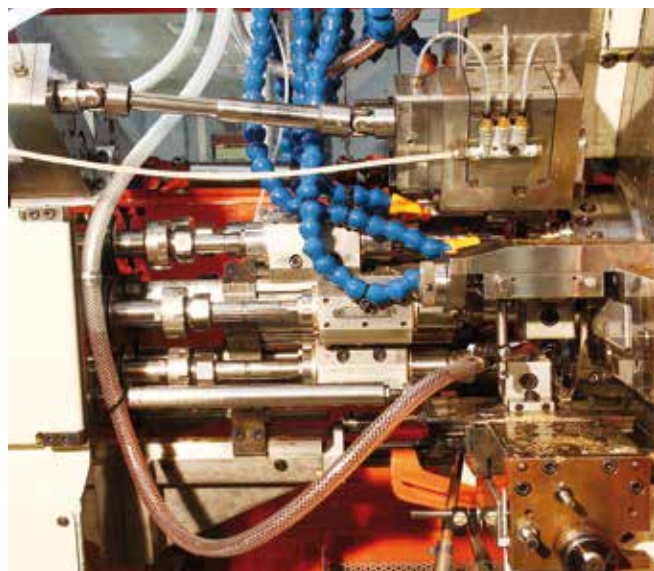
Wickman **Schütte** **GILDEMEISTER**

MORI-SAY





ATTREZZATURE
ATTACHMENTS





RTM è specializzata nella fornitura di ricambi, portautensili e accessori per torni automatici plurimandrino, monomandrino, fantine mobili e caricatori di barre.

RTM specializes in the supply of spare parts, toolholders and various accessories for multi spindle automatic lathes, single spindle lathes, cnc lathes and bar-loaders.





**RICAMBI
SPARE PARTS**



DEMA è specializzata nella vendita di torni automatici plurimandrino, caricatori automatici di barre e nella revisione completa o parziale su richiesta del cliente.

DEMA specializes in the sale of multi spindle automatic lathes, automatic barloaders and can also offer full or customized machines overhauling following customers request.



Wickman **Schütte** **GILDEMEISTER** **MORI-SAY**





**TORNI PLURIMANDRINO
MULTISPINDLE LATHES**





DEMA è specializzata nel fornire un efficiente servizio di manutenzione presso il cliente avvalendosi di tecnici specializzati e ricambi di qualità sempre disponibili al fine di garantire un rapido intervento e la rimessa in produzione del tornio nel minor tempo possibile.

DEMA guarantees an efficient maintenance service at customer's location. Our technicians knowledge and our wide high quality stock range allow us to grant fast interventions and minimize machines down time.

Wickman **Schütte** **GILDEMEISTER**

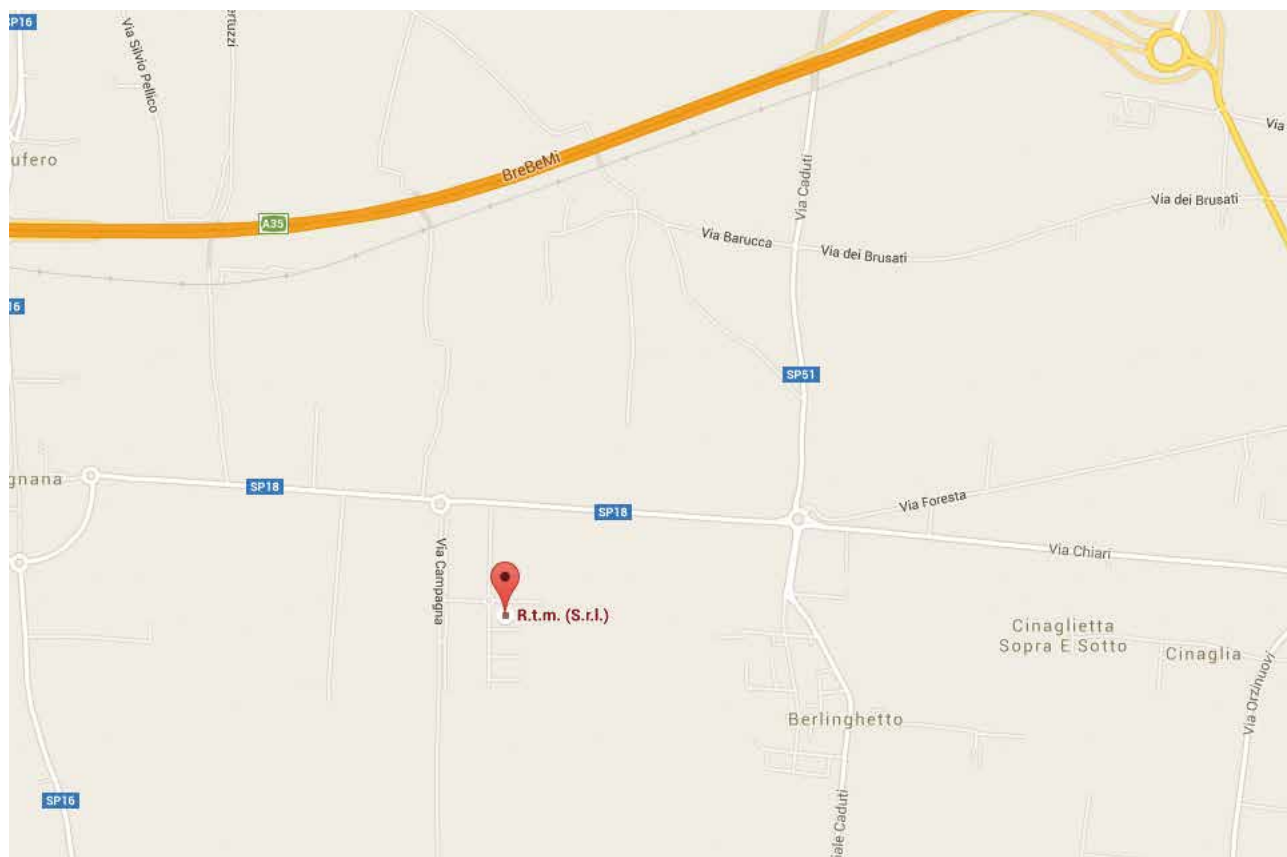
MORI-SAY





REVISIONI E ASSISTENZA
OVERHAULING AND SERVICE





Via dell'Artigianato, 12 - 25030 Berlingo (Bs) Italy

Tel. +39.030.2185222 - Fax +39.030.2753090

info@rtmicambi.com - info@de-ma.com - info@demacnc.com

www.rtmicambi.com - www.de-ma.com





PINZE E UTENSILI - COLLETS AND TOOLS



Via dell'Artigianato, 12 - 25030 Berlingo (Bs) Italy

Tel. +39.030.2185222 - Fax +39.030.2753090

info@rtmicambi.com - info@de-ma.com - info@demacnc.com

www.rtmricambi.com - www.de-ma.com