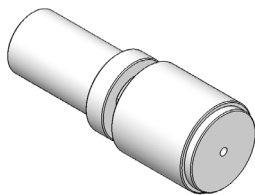


INDICE DEI PORTAUTENSILI ATTACCO CILINDRICO

INDEX OF STRAIGHT SHANK TOOLHOLDERS

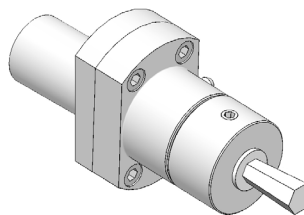
FERMOBARRA ROTANTI ROTARY BAR-STOP



Programma
completo
a pag.

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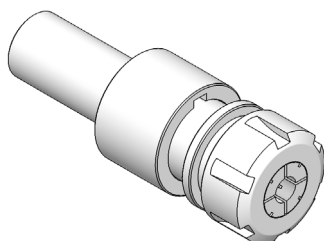
BROCCIATORI BROACHING TOOLHOLDERS



Programma
completo
da pag.

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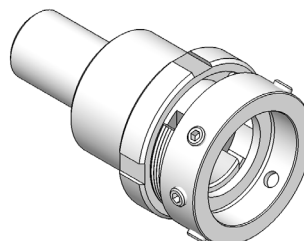
PORTAMASCHI TAP HOLDERS



Programma
completo
da pag.

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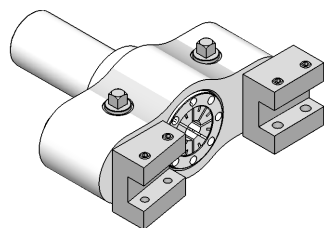
PORTAFILIERE THREADING DIE HOLDERS



Programma
completo
da pag.

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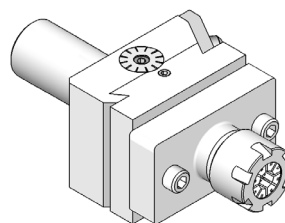
COMBINATI TORNIRE E FORARE TURNING AND DRILLING



Programma
completo
da pag.

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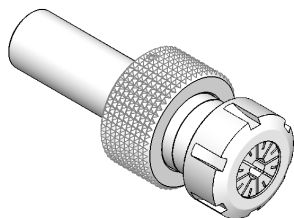
PORTAUTENSILI PER INTERNI TOOLHOLDERS FOR INSIDES



Programma
completo
da pag.

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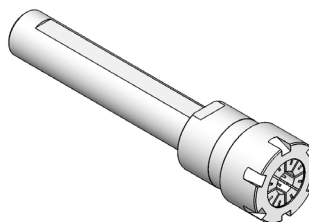
PORTA ALESATORI OSCILLANTI FLOATING REAMER HOLDERS



Programma
completo
a pag.

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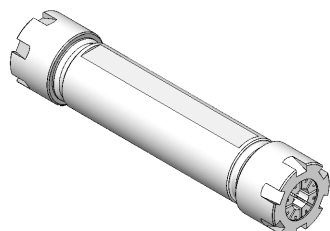
PORTAPINZA ER CON GHIERA MINI ER COLLET CHUCKS WITH MINI NUT



Programma
completo
da pag.

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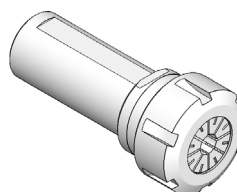
PORTAPINZA ER DOPPI DOUBLE ER COLLET CHUCKS



Programma
completo
a pag.

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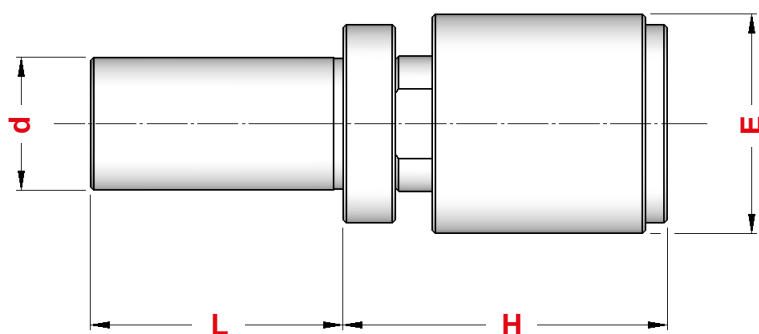
PORTAPINZA ER CON GHIERA STANDARD ER COLLET CHUCKS WITH STANDARD NUT



Programma
completo
da pag.

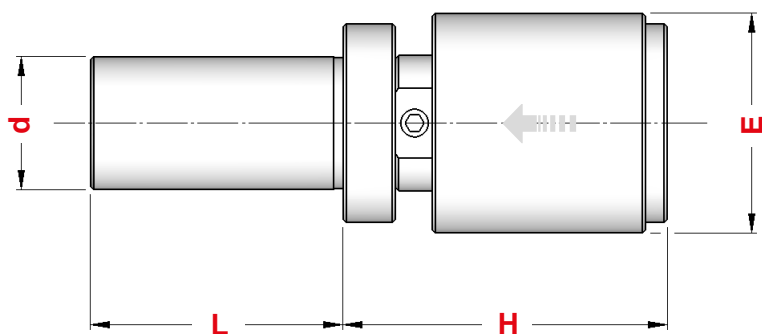
36

FERMOBARRA ROTANTI REGOLABILI CON ATTACCO CILINDRICO
STRAIGHT SHANK ROTARY ADJUSTABLE BAR-STOP



Art.	d	L	H	E
1520	16,00	32	36 - 62	20
1719	19,05	32	36 - 62	20
1720	19,05	46	45 - 75	26
1447	20,00	50	62 - 100	34
1448	22,00	50	62 - 100	34
1449	25,00	50	62 - 100	34
1459	25,00	50	62 - 100	42
1460	25,00	50	62 - 100	56
1450	25,40	50	62 - 100	34
1592	25,40	50	62 - 100	42
1622	25,40	50	62 - 100	56
1730	30,00	50	62 - 100	42
1735	30,00	50	62 - 100	56
2403	31,75	50	62 - 100	42
2433	31,75	50	62 - 100	56
1732	32,00	50	62 - 100	42
1773	32,00	50	62 - 100	56
1736	40,00	70	62 - 100	42
1797	40,00	70	62 - 100	56

FERMOBARRA ROTANTI REGOLABILI AMMORTIZZATI CON ATTACCO CILINDRICO
DAMPED STRAIGHT SHANK ROTARY ADJUSTABLE BAR-STOP



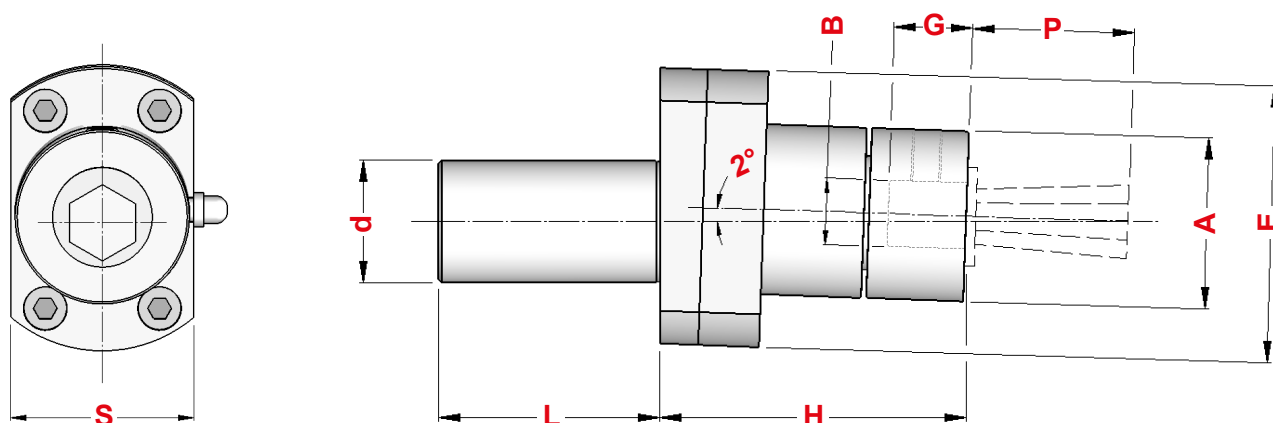
Art.	d	L	H	E
2628	19,05	46	58 - 100	34
2629	20,00	35	62 - 90	34
2630	20,00	50	62 - 100	34
2635	25,00	50	62 - 100	34
2421	25,00	50	62 - 100	42
2447	25,00	50	62 - 100	56
0985	25,40	50	62 - 100	34
1024	25,40	50	62 - 100	42
1062	25,40	50	62 - 100	56
1537	30,00	50	62 - 100	42
1552	30,00	50	62 - 100	56
1560	31,75	50	62 - 100	42
1565	31,75	50	62 - 100	56
1025	32,00	50	62 - 100	42
1063	32,00	50	62 - 100	56
1061	40,00	70	62 - 100	42
1073	40,00	70	62 - 100	56

CARATTERISTICHE: a differenza del normale fermobarra rotante, nel modello ammortizzato, oltre al cuscinetto radiale ed al reggispira, è presente una serie di molle a tazza per meglio assorbire eventuali urti della barra.

CHARACTERISTICS: unlike normal rotary bar stop, inside damped model, besides radial bearing and thrust bearing, there is a set of spring washers in order to absorb well any bar shoves.

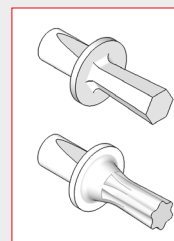
BROCCIATORI CON ATTACCO CILINDRICO

STRAIGHT SHANK BROACHING TOOLHOLDERS



Art.	d	L	H	G	P	A	E	S	B
2312	16,00	35	42	10	18	22	50	30	8
2448	19,05	40	51	16	25	30	53	36	12
1680	20,00	40	51	16	25	30	53	36	12
1705	22,00	45	76	21	25	42	68	44	16
1707	25,00	45	76	21	25	42	68	44	16
2450	25,40	45	76	21	25	42	68	44	16
1731	30,00	45	76	21	25	42	68	44	16
2451	31,75	50	76	21	25	42	68	44	16
2709	32,00	50	76	21	25	42	68	44	16
2712	40,00	50	76	21	25	42	68	44	16

Per il corretto funzionamento si consiglia di rispettare la quota "P" come riportato in tabella
For the right operation, is recommended to respect "P" dimension as quoted in the table

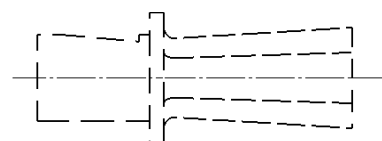
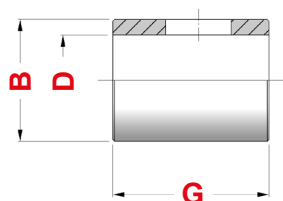
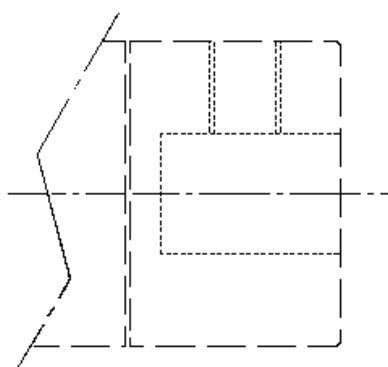


Potete trovare la gamma completa di Brocche a pag. 269 del Catalogo Generale

You can find the complete range of Broaches on General Catalogue page 269

RIDUTTORE PER SEDE BROCCIA DA GAMBO 16 A GAMBO 12

REDUCTION FOR BROACH SEAT FROM 16 TO 12 SHANK

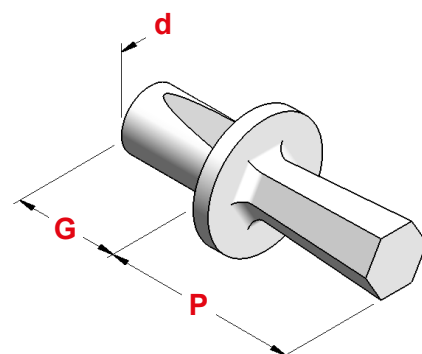


Art.	B	D	G
2351	16	12	20,5

BROCCE ESAGONALI

HEXAGONAL BROACHES

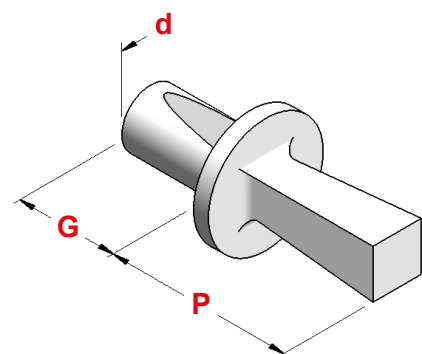
Esagonale Hexagonal				HSS	in HSS RIVESTITO con : HSS COATED with :		
d	G	P			TiN Articolo	TiCN Articolo	INOX-PLUS Articolo
5	7	10	1 ÷ 5	9030	9035	9040	9045
8	9	18	1 ÷ 10	9031	9036	9041	9046
12	15	25	1 ÷ 17	9032	9037	9042	9047
16	19	25	1 ÷ 32	9033	9038	9043	9048



BROCCE QUADRE

SQUARE BROACHES

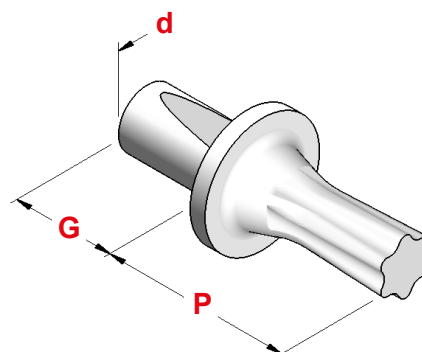
Quadro Square				HSS	in HSS RIVESTITO con : HSS COATED with :		
d	G	P			TiN Articolo	TiCN Articolo	INOX-PLUS Articolo
5	7	10	1,5 ÷ 4	9050	9055	9060	9065
8	9	18	1,5 ÷ 8	9051	9056	9061	9066
12	15	25	1,5 ÷ 14	9052	9057	9062	9067
16	19	25	1,5 ÷ 25	9053	9058	9063	9068



BROCCE TORX *

TORX BROACHES

Torx * Torx				HSS	in HSS RIVESTITO con : HSS COATED with :		
d	G	P			TiN Articolo	TiCN Articolo	INOX-PLUS Articolo
8	9	18	5 ÷ 30	9070	9075	9080	9085
12	15	25	5 ÷ 55	9071	9076	9081	9086
16	19	25	60	9072	9077	9082	9087

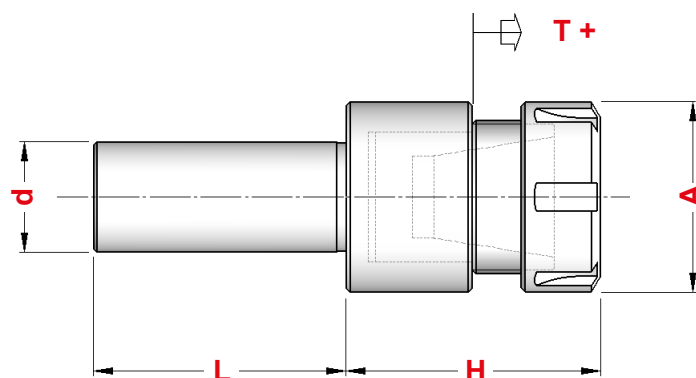


* Marchio registrato / Trade Mark

MEP

MASCHIATORI AD ESTRAZIONE CON ATTACCO CILINDRICO E PINZA ER DRAW-OUT TAP HOLDERS WITH ER - DIN 6499 COLLET

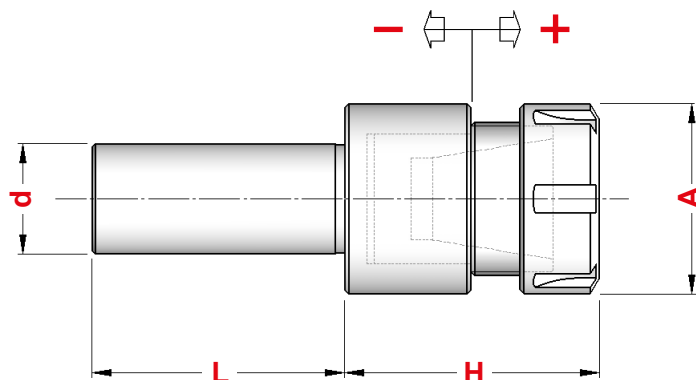
TIPO	Art.	d	L	H	T+	A	CAPACITA'			
d 16 MEP - ER 20	3152	16,00	32	63	+ 11	35	1 ÷ 13	4994	3699	0787
d 19,05 MEP - ER 20	3163	19,05	50	63	+ 11	35	1 ÷ 13	4994	3699	0787
d 20 MEP - ER 20	3164	20,00	50	63	+ 11	35	1 ÷ 13	4994	3699	0787
d 25 MEP - ER 25	3552	25,00	50	61	+ 15	42	1 ÷ 16	4995	3669	0996
d 25 MEP - ER 32	3165	25,00	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 25,4 MEP - ER 25	3166	25,40	50	61	+ 15	42	1 ÷ 16	4995	3669	0996
d 25,4 MEP - ER 32	3555	25,40	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 30 MEP - ER 32	1553	30,00	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 31,75 MEP - ER 32	3556	31,75	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 32 MEP - ER 32	3559	32,00	50	65	+ 16	50	2 ÷ 20	4996	3670	0988
d 40 MEP - ER 32	3560	40,00	70	65	+ 16	50	2 ÷ 20	4996	3670	0988

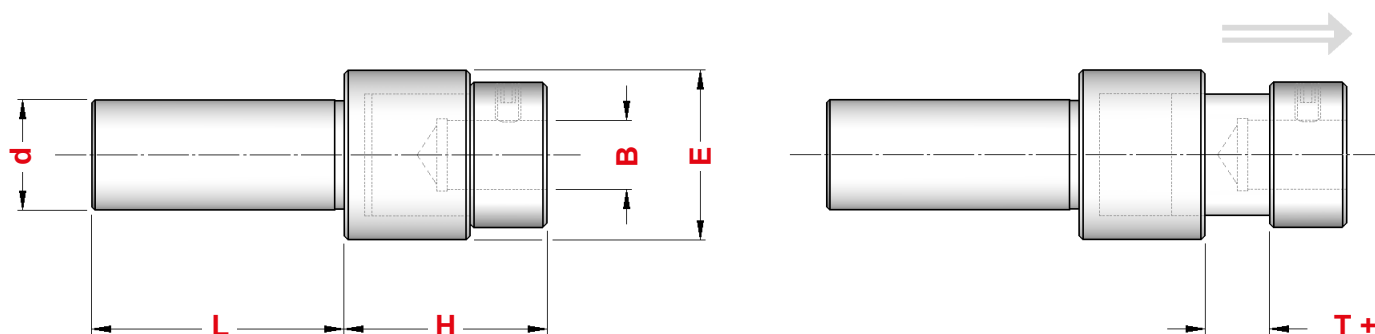


MCP

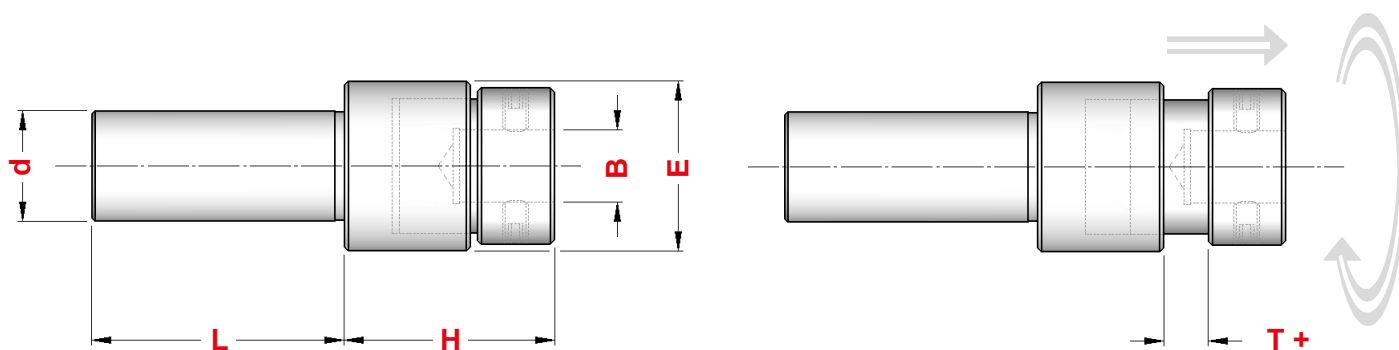
MASCHIATORI A DOPPIA COMPENSAZIONE CON ATTACCO CILINDRICO E PINZA ER DOUBLE COMPENSATION TAP HOLDERS WITH ER - DIN 6499 COLLET

TIPO	Art.	d	L	H	COMPENSAZIONE	A	CAPACITA'			
d 16 MCP- ER 20	3561	16,00	32	67	- 4 + 7	35	1 ÷ 13	4994	3699	0787
d 19,05 MCP- ER 20	3562	19,05	50	67	- 4 + 7	35	1 ÷ 13	4994	3699	0787
d 20 MCP- ER 20	3563	20,00	50	67	- 4 + 7	35	1 ÷ 13	4994	3699	0787
d 25 MCP- ER 25	3572	25,00	50	67	- 6 + 9	42	1 ÷ 16	4995	3669	0996
d 25 MCP- ER 32	3573	25,00	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 25,4 MCP- ER 25	3574	25,40	50	67	- 6 + 9	42	1 ÷ 16	4995	3669	0996
d 25,4 MCP- ER 32	3575	25,40	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 30 MCP- ER 32	3576	30,00	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 31,75 MCP- ER 32	3577	31,75	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 32 MCP- ER 32	3578	32,00	50	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988
d 40 MCP- ER 32	3579	40,00	70	71	- 6 + 10	50	2 ÷ 20	4996	3670	0988



ME
MASCHIATORI AD ESTRAZIONE CON ATTACCO CILINDRICO
 STRAIGHT SHANK DRAW-OUT TAP HOLDERS


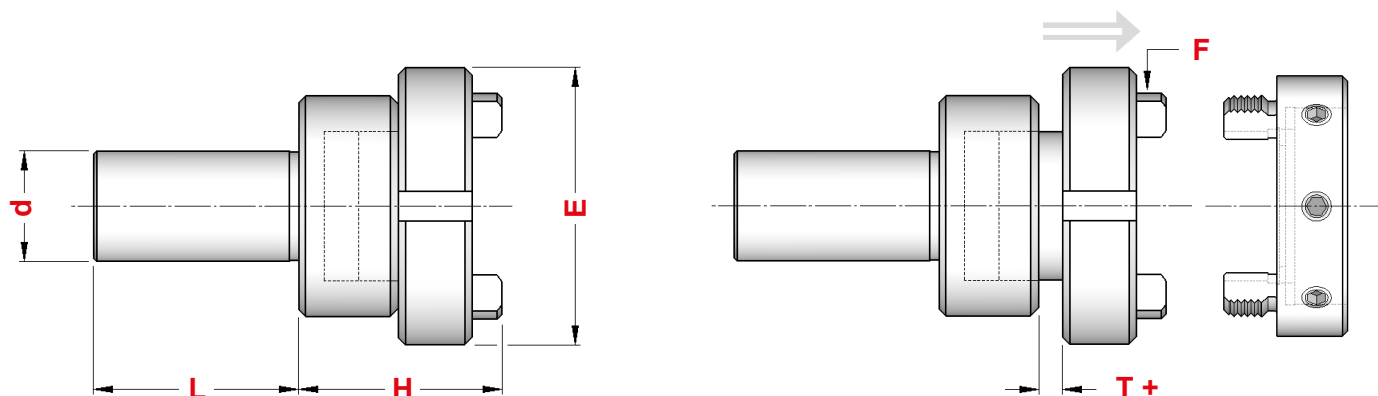
TIPO	Art.	d	L	H	E	T+	B
d 16 ME	1658	16,00	32	29	29	+ 8	10
d 19,05 ME	1451	19,05	50	38	34	+ 12	12
d 20 ME	1452	20,00	50	38	34	+ 12	12
d 25 ME	1725	25,00	50	49	42	+ 16	18
d 25,4 ME	1453	25,40	50	49	42	+ 16	18
d 31,75 ME	1454	31,75	50	49	58	+ 16	25
d 32 ME	2402	32,00	50	49	58	+ 16	25

MS
MASCHIATORI A SGANCIAMENTO CON ATTACCO CILINDRICO
 STRAIGHT SHANK OFF HOOK TAP HOLDERS


TIPO	Art.	d	L	H	E	T+	B
d 20 MS	1368	20,00	50	44	51	mm 4	18
d 22 MS	1369	22,00	50	44	51	mm 4	18
d 25 MS	1370	25,00	50	44	51	mm 4	18
d 25,4 MS	1367	25,40	50	44	51	mm 4	18
d 30 MS	2074	30,00	50	54	51	mm 4	25
d 31,75 MS	2422	31,75	50	54	51	mm 4	25
d 32 MS	1706	32,00	50	54	51	mm 4	25

PFE

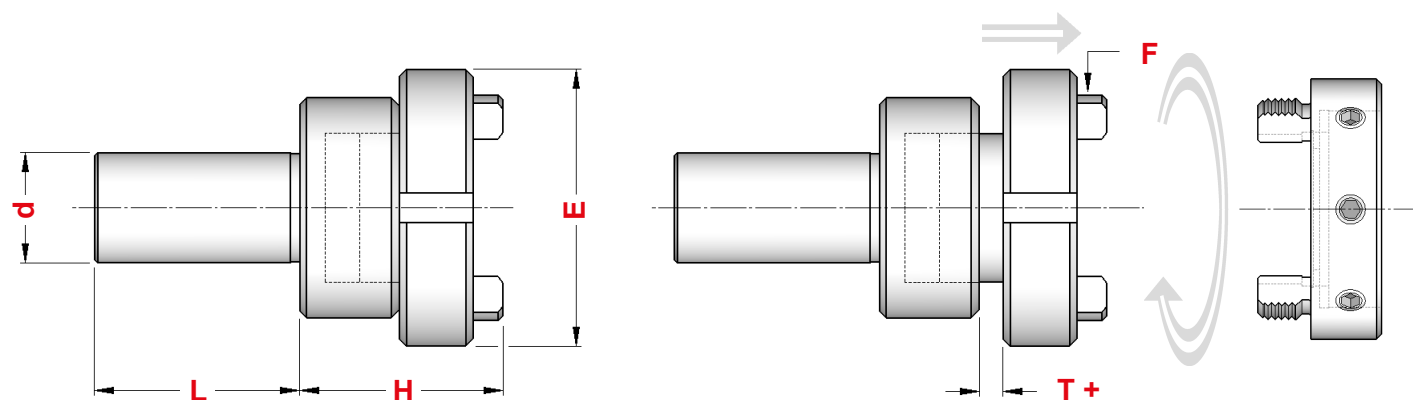
PORTAFILIERE AD ESTRAZIONE CON ATTACCO CILINDRICO STRAIGHT SHANK DRAW-OUT THREADING DIE HOLDERS



TIPO	Art.	d	L	H	E	T+	F
d 16 PFE	1637	16,00	32	33	36	mm 8	M28 x1,0
d 19,05 PFE	1814	19,05	32	42	56	mm 12	M48 x1,5
d 20 PFE	1640	20,00	32	42	56	mm 12	M48 x1,5
d 22 PFE	1641	22,00	46	59	70	mm 16	M60 x1,5
d 25 PFE	1650	25,00	46	59	70	mm 16	M60 x1,5
d 25,4 PFE	1872	25,40	46	59	70	mm 16	M60 x1,5
d 30 PFE	1646	30,00	46	59	70	mm 16	M60 x1,5
d 31,75 PFE	1807	31,75	46	59	70	mm 16	M60 x1,5
d 32 PFE	1916	32,00	46	59	70	mm 16	M60 x1,5
d 40 PFE	2556	40,00	85	51	70	mm 16	M60 x1,5

PFS

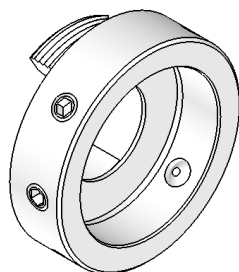
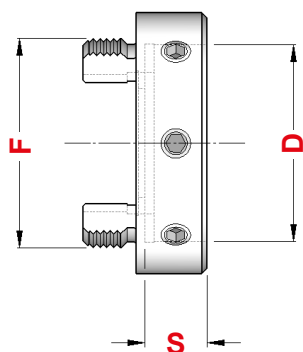
PORTAFILIERE A SGANCIAMENTO CON ATTACCO CILINDRICO STRAIGHT SHANK OFF HOOK THREADING DIE HOLDERS



TIPO	Art.	d	L	H	E	T+	F
d 19,05 PFS	0369	19,05	50	46	57	mm 4	M48 x1,5
d 20 PFS	1630	20,00	50	46	57	mm 4	M48 x1,5
d 22 PFS	1890	22,00	50	51	71	mm 4	M60 x1,5
d 25 PFS	1891	25,00	50	51	71	mm 4	M60 x1,5
d 25,4 PFS	1889	25,40	50	51	71	mm 4	M60 x1,5
d 30 PFS	1668	30,00	50	51	71	mm 4	M60 x1,5
d 31,75 PFS	2249	31,75	50	51	71	mm 4	M60 x1,5
d 32 PFS	1653	32,00	50	51	71	mm 4	M60 x1,5

CAPPELOTTI PER PORTAFILIERE AD ESTRAZIONE E A SGANCIAMENTO

CAPS FOR DRAW OUT AND OFF HOOK THREADING DIE HOLDERS



Art.	D	S	F
0054	16	5	M28 x 1,0
0059	20	5	M28 x 1,0
1712	20	7	M28 x 1,0
0067	25	9	M28 x 1,0
1848	30	11	M28 x 1,0

1824	20	5	M48 x 1,5
1806	20	7	M48 x 1,5
1803	25	9	M48 x 1,5
1808	30	11	M48 x 1,5
1852	38	10	M48 x 1,5
1809	38	14	M48 x 1,5
1810	45	14	M48 x 1,5
1877	45	18	M48 x 1,5
2006	50	16	M48 x 1,5
2007	55	16	M48 x 1,5

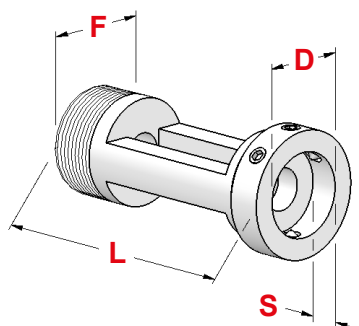
1600	25	9	M60 x 1,5
1811	30	11	M60 x 1,5
1804	38	10	M60 x 1,5
1812	38	14	M60 x 1,5
1813	45	14	M60 x 1,5
1911	45	18	M60 x 1,5
1805	50	16	M60 x 1,5
1815	55	16	M60 x 1,5
1816	65	18	M60 x 1,5
1862	75	20	M60 x 1,5

PORTAFILIERE PER APPARECCHIO FORO-FILETTI TRAUB, SAIC E ITS

THREADING DIE HOLDERS FOR TRAUB, SAIC AND ITS DRILL-THREAD DEVICE

TRAUB A.15 - 20 - 25

Art.	D	S	L	F
1043	16	5	27	M 25 x 1,5 SX
1044			45	
1045			66	
1046	20	7	32	M 25 x 1,5 SX
1047			46	
1055	25	9	31	M 25 x 1,5 SX
1056			46	
1057			62	
1058	30	11	32	M 25 x 1,5 SX
1059			46	
1060			62	
1067	38	14	32	M 25 x 1,5 SX
1068			46	
1069			72	



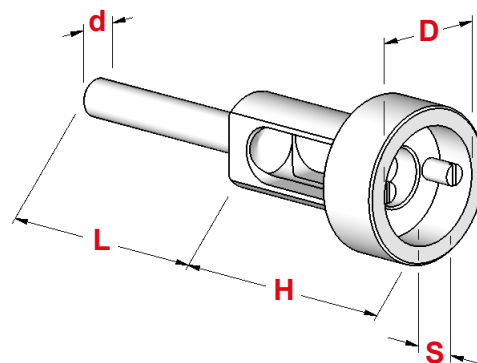
SAIC B.26 - ITS 26

Art.	D	S	L	F
1603	16	5	27	M26 x 1,5 SX
1604			46	
1605			69	
1606	20	7	32	M26 x 1,5 SX
1607			46	
1608			68	
1609	25	9	31	M26 x 1,5 SX
1610			46	
1611			68	
1612	30	11	32	M26 x 1,5 SX
1613			48	
1614			68	
1615	38	14	36	M26 x 1,5 SX
1616			44	
1617			67	

PORTAFILIERA FISSI
FIXED THREADING DIE HOLDERS

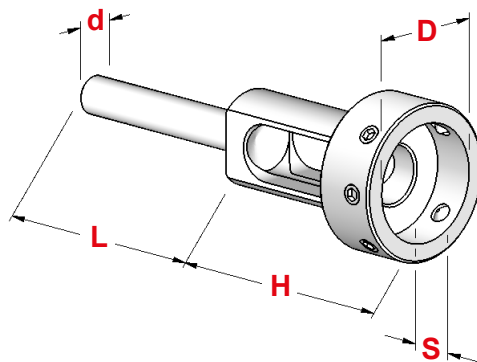
FISSAGGIO FRONTALE
FRONT FIXING

Art.	D	S	d	H	L
1094	16	5	8	40	40
1075	20	5	8	43	45
1096	20	7	8	43	45
1104	25	9	8	50	45
1106	30	11	8	50	45
1084	35	12	8	60	50



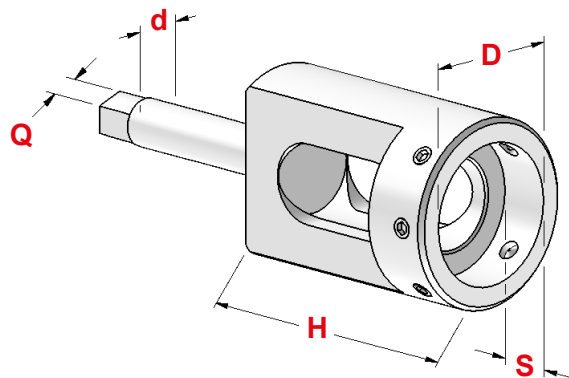
FISSAGGIO LATERALE
LATERAL FIXING

Art.	D	S	d	H	L
1093	16	5	8	40	40
1075	20	5	8	43	45
1095	20	7	8	43	45
1103	25	9	8	50	45
1105	30	11	8	50	45
1125	38	10	8	56	50
1107	38	14	8	56	50



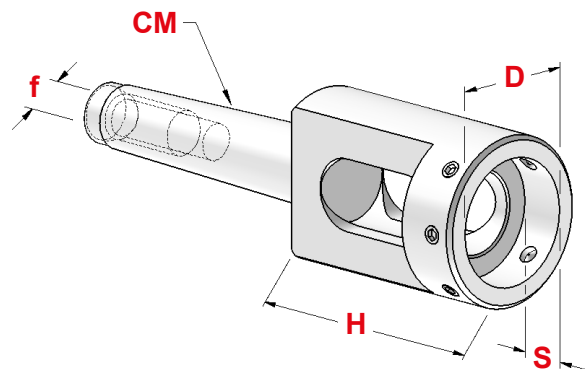
TIPO MAGGIORATO
INCREASED TYPE

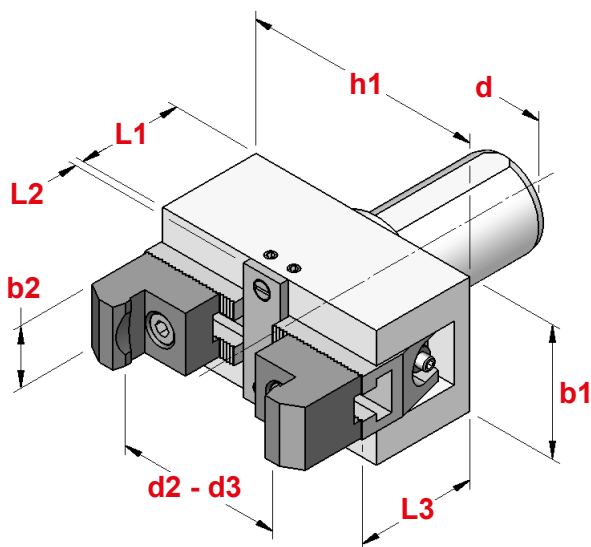
Art.	D	S	d	Q	H
2486	16	5	9	7	60
2540	20	7	9	7	60
2536	25	9	9	7	60
2537	30	11	10	8	60
2538	38	10	10	8	60
2544	38	14	12	9	60
2539	45	14	12	9	66
2558	45	18	14	11	66



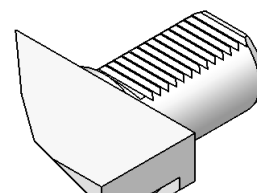
ATTACCO CONO MORSE
MORSE TAPER SHANK

Art.	D	S	CM	f	H
2727	16	5	2	M 10	60
2728	20	7	2	M 10	60
2729	25	9	2	M 10	60
2731	30	11	2	M 10	60
2735	38	10	2	M 10	60
2767	38	14	2	M 10	60
2776	45	14	2	M 10	66
2786	45	18	2	M 10	66





CON ATTACCO VDI
WITH VDI SHANK



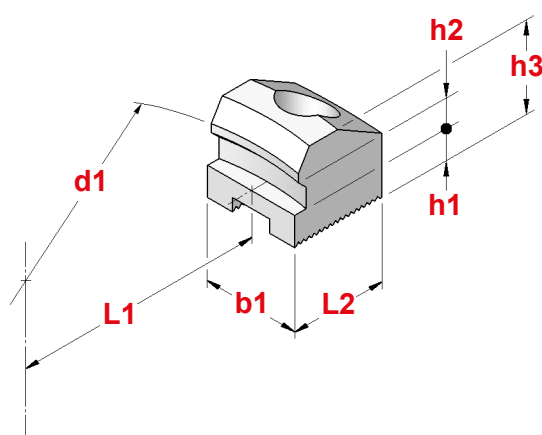
Pag. 259
del Catalogo Generale

TIPO	Art.	d	d2	d3	b1	b2	h1	L1	L2	L3
H1.CIL 25	5422	25	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1.CIL 32	5423	32	6 ÷ 56	54 ÷ 110	50	28	72	46	4	51
H1.CIL 40	5424	40	6 ÷ 66	54 ÷ 110	60	28	110	48	4	53
H1.CIL 50	5425	50	10 ÷ 75	62 ÷ 125	65	28	130	67	5	73

La confezione dello Stringibarra comprende 2 coppie di griffe per poter stringere l'intera gamma delle misure (d2-d3).

Bar Clamp wrapping includes 2 couples of jaws to allow clamping the complete range of dimensions (d2-d3).

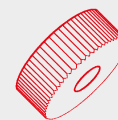
GRIFFE JAWS



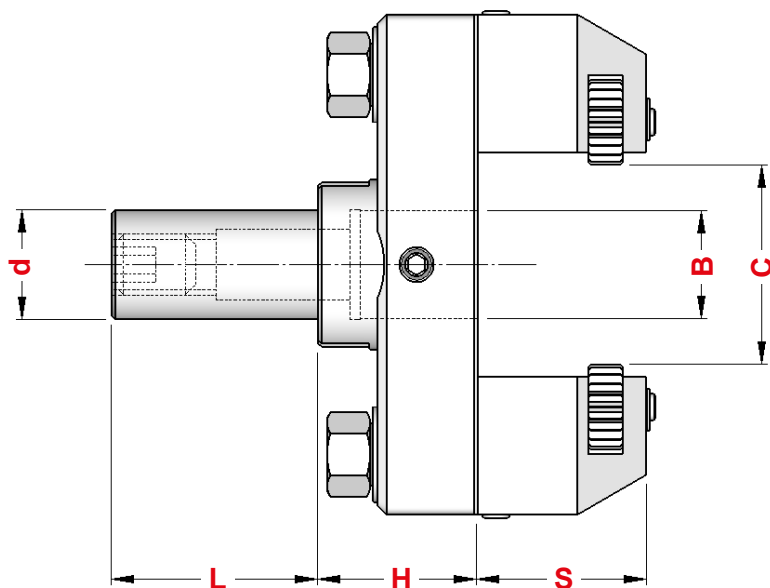
TIPO	Art.	d1	b1	L1	L2	h1	h2	h3
H1.10 30 - 40	5822	75	28	35	28	9	10	26
H1.11 30 - 40	5823	125	28	42	36	18	10	34
H1.10 50 - 60	5824	75	28	35	28	17	10	42
H1.11 50 - 60	5825	125	28	42	36	24	10	42

PORTAGODRONI DOPPI REGISTRABILI CON ATTACCO CILINDRICO

STRAIGHT SHANK ADJUSTABLE DOUBLE KNURLING -WHEEL HOLDERS



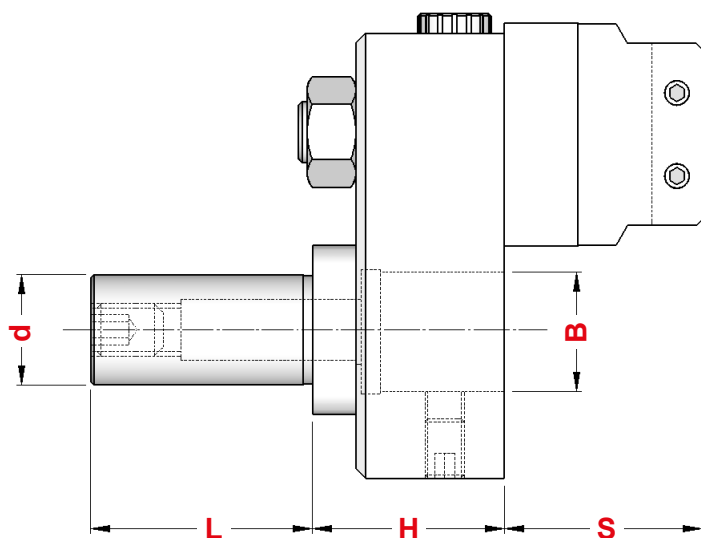
Art.	d	L	H	S	C	B	GODRONE
1874	19,05	42	28	33	5 ÷ 26	15	20 x 8 x 6
0327	20,00	42	28	33	5 ÷ 26	15	20 x 8 x 6
0338	22,00	50	35	40	6 ÷ 56	25	20 x 8 x 6
0339	25,00	50	35	40	6 ÷ 56	25	20 x 8 x 6
1875	25,40	50	35	40	6 ÷ 56	25	20 x 8 x 6
0352	30,00	50	35	40	6 ÷ 56	25	20 x 8 x 6
0361	31,75	50	35	40	6 ÷ 56	25	20 x 8 x 6
0362	32,00	50	35	40	6 ÷ 56	25	20 x 8 x 6



PORTAUTENSILI REGISTRABILI RADIALI CON ATTACCO CILINDRICO

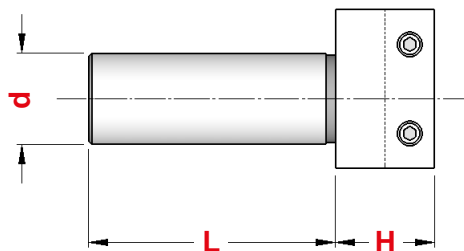
STRAIGHT SHANK RADIAL ADJUSTABLE TOOLHOLDERS

Art.	d	L	H	S	B
1864	22,00	50	38	38	25
1013	25,00	50	38	38	25
1014	25,40	50	38	38	25
1867	30,00	50	38	38	25
1853	31,75	50	38	38	25
1879	32,00	50	38	38	25

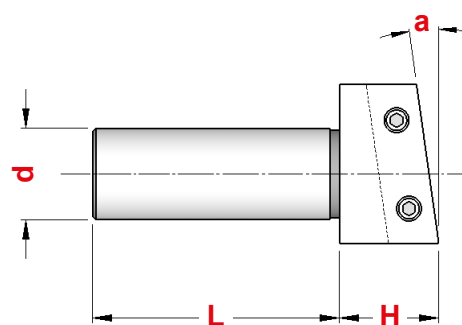


PORTABARRETTE FISSI

FIXED TOOLPOSTS



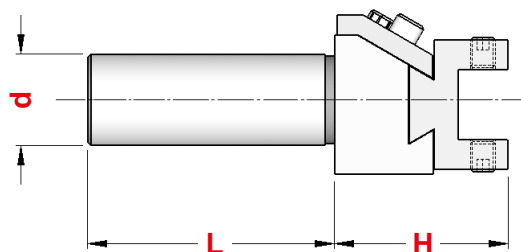
Art.	d	L	H
2763	12	32	14
2768	12	40	14
2453	15	42	18
2783	15	60	18
1100	15	75	20
2069	18	50	20
2785	18	75	20
1034	22	85	24



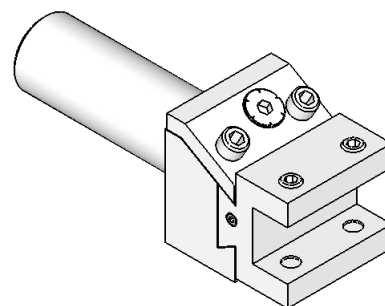
Art.	d	L	H	α
2454	15	42	18	8°
2864	15	60	18	8°
1101	15	75	22	15°
1102	15	75	50	45°
2070	18	50	24	8°
2876	18	75	25	8°
1035	22	85	27	15°
1036	22	85	55	45°

PORTABARRETTE REGISTRABILI CENTESIMALI

CENTESIMAL ADJUSTABLE TOOLPOSTS

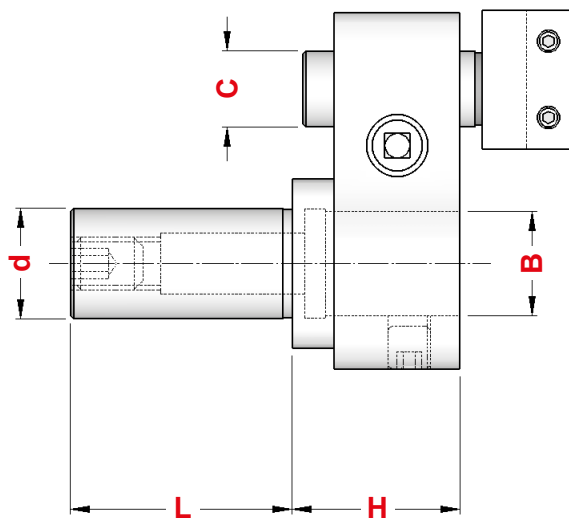
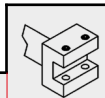


Art.	d	L	H
0163	15	42	40
2679	15	60	40
0164	18	50	40
2680	18	75	40



PORTAUTENSILI COMBINATI SEMPLICI TORNIRE-FORARE CON ATTACCO CILINDRICO

STRAIGHT SHANK TURN AND DRILL SIMPLE TOOLHOLDERS



Art.	d	L	H	C	B	
2066	19,05	46	26	15	15	2453
1223	20,00	46	26	15	15	2453
2346	22,00	50	36	18	25	2069
1333	25,00	50	36	18	25	2069
2065	25,40	50	36	18	25	2069
2088	30,00	50	36	18	25	2069
2449	31,75	50	36	18	25	2069
1219	32,00	50	36	18	25	2069

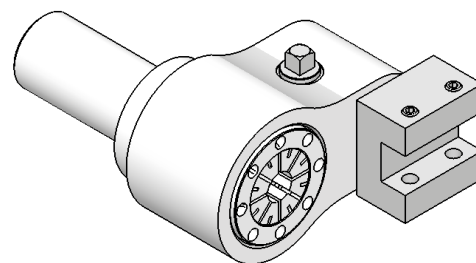
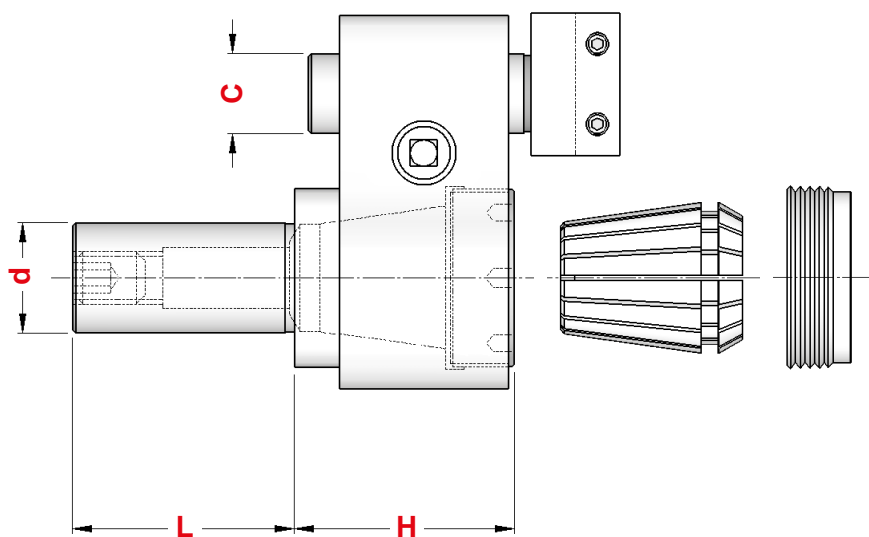
PORTAUTENSILI COMBINATI SEMPLICI TORNIRE-FORARE

CON ATTACCO CILINDRICO E PINZA ER

STRAIGHT SHANK TURN AND DRILL SIMPLE TOOLHOLDERS WITH ER-DIN 6499 COLLET

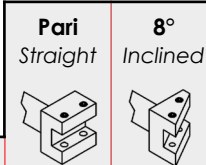


Art.	d	L	H	C	CAPACITA'				
2418	19,05	46	34	15	1,0 ÷ 13	2453	2869	3171	0787
1172	20,00	46	34	15	1,0 ÷ 13	2453	2869	3171	0787
1679	22,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1899	25,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
2419	25,40	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1721	30,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1968	31,75	50	48	18	2,0 ÷ 20	2069	2871	3173	0988
1181	32,00	50	48	18	2,0 ÷ 20	2069	2871	3173	0988

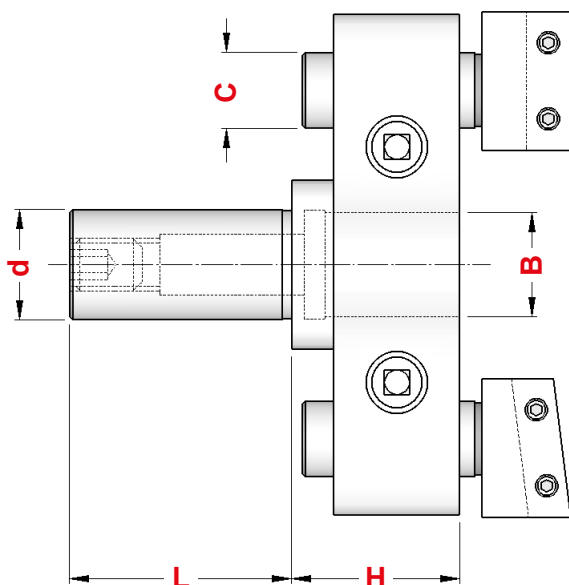


PORTAUTENSILI COMBINATI DOPPI TORNIRE-FORARE CON ATTACCO CILINDRICO

STRAIGHT SHANK TURN AND DRILL DOUBLE TOOLHOLDERS



Art.	d	L	H	C	B		
2073	19,05	46	32	15	15	2453	2454
1224	20,00	46	32	15	15	2453	2454
2089	22,00	50	48	18	25	2069	2070
2093	25,00	50	48	18	25	2069	2070
2072	25,40	50	48	18	25	2069	2070
2094	30,00	50	48	18	25	2069	2070
2443	31,75	50	48	18	25	2069	2070
1225	32,00	50	48	18	25	2069	2070



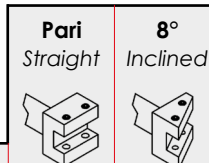
Al momento dell'ordine specificare se si desidera un portabarrette pari e uno inclinato 8° oppure entrambi pari.

At the moment of the order please specify if it is needed one straight toolpost and one 8° inclined or if both straight.

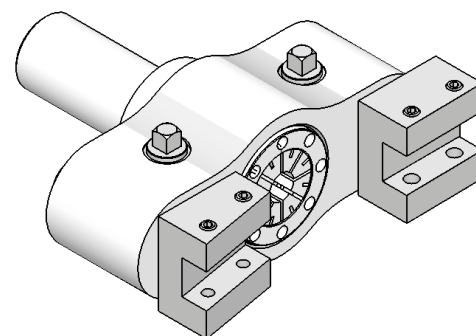
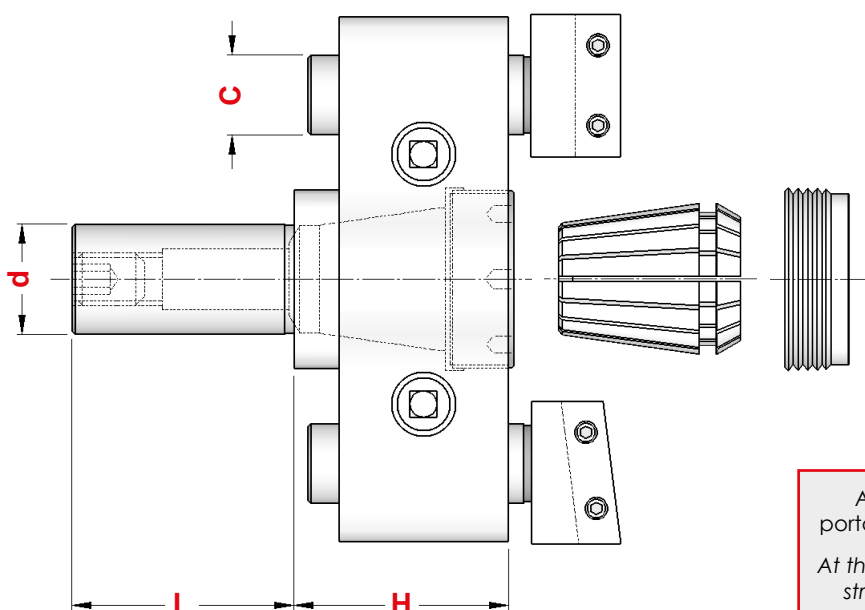
PORTAUTENSILI COMBINATI DOPPI TORNIRE-FORARE

CON ATTACCO CILINDRICO E PINZA ER

TURN AND DRILL DOUBLE TOOLHOLDERS WITH ER-DIN 6499 COLLET



Art.	d	L	H	C	CAPACITA'					
2504	19,05	46	34	15	1,0 ÷ 13	2453	2454	2869	3171	0787
1183	20,00	46	34	15	1,0 ÷ 13	2453	2454	2869	3171	0787
1969	22,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
1970	25,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
2505	25,40	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
2013	30,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
2078	31,75	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988
1199	32,00	50	48	18	2,0 ÷ 20	2069	2070	2871	3173	0988

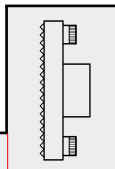


Al momento dell'ordine specificare se si desidera un portabarrette pari e uno inclinato 8° oppure entrambi pari.

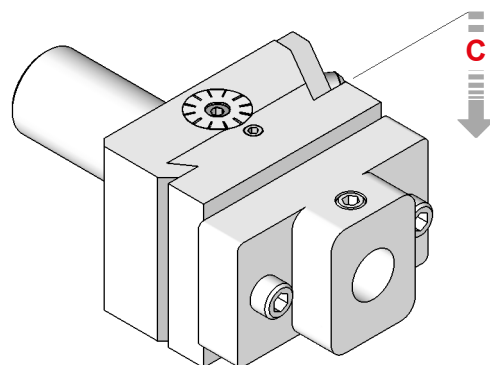
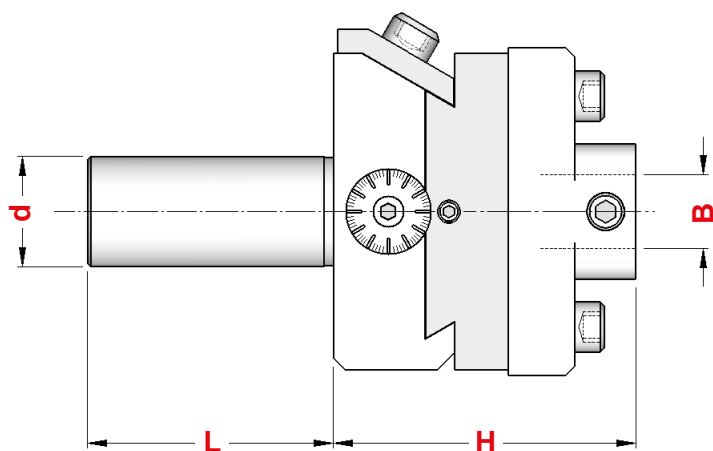
At the moment of the order please specify if it is needed one straight toolpost and one 8° inclined or if both straight.

PORTAUTENSILI MICROMETRICI PER INTERNI CON ATTACCO CILINDRICO

STRAIGHT SHANK MICROMETRIC SETTING BORING TOOLHOLDERS



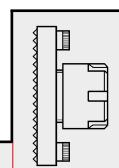
Art.	d	L	H	B	C	
1501	16,00	32	46,5	12	10	—
1701	19,05	50	54	15	18	2987
1868	20,00	50	54	15	18	2987
1870	25,00	50	54	18	18	2988
1871	25,40	50	54	18	18	2988
2488	32,00	50	54	18	18	2988



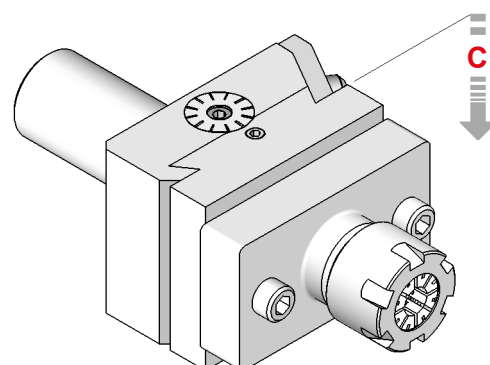
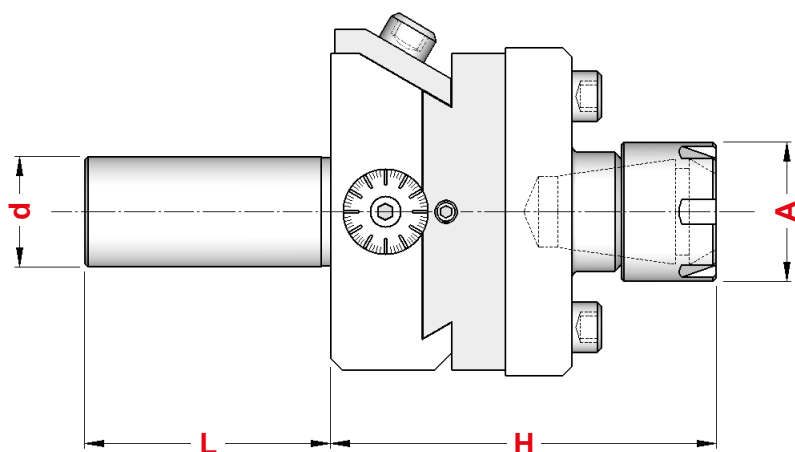
PORTAUTENSILI MICROMETRICI PER INTERNI

CON ATTACCO CILINDRICO E PINZA ER

MICROMETRIC SETTING BORING TOOLHOLDERS WITH ER-DIN 6499 COLLET

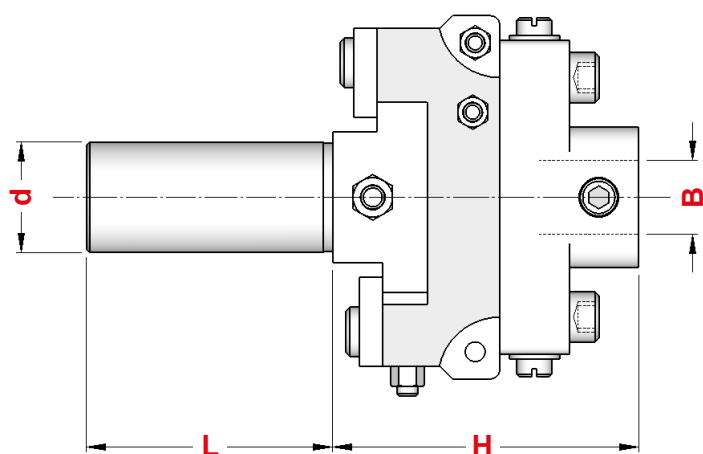


Art.	d	L	H	A	CAPACITA'	C				
1662	19,05	50	70	28	1,0 ÷ 13	18	2989	1230	5720	0787
1664	20,00	50	70	28	1,0 ÷ 13	18	2989	1230	5720	0787
1666	25,00	50	75	35	1,0 ÷ 16	18	2990	1231	5721	0996
1672	25,40	50	75	35	1,0 ÷ 16	18	2990	1231	5721	0996

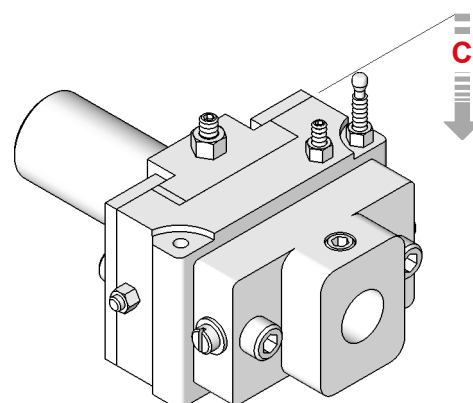


PORTAUTENSILI OSCILLANTI PER RECESSI CON ATTACCO CILINDRICO

STRAIGHT SHANK SLIDING TOOLHOLDERS FOR RECESSES



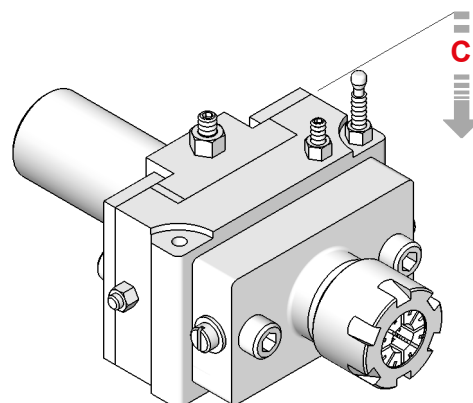
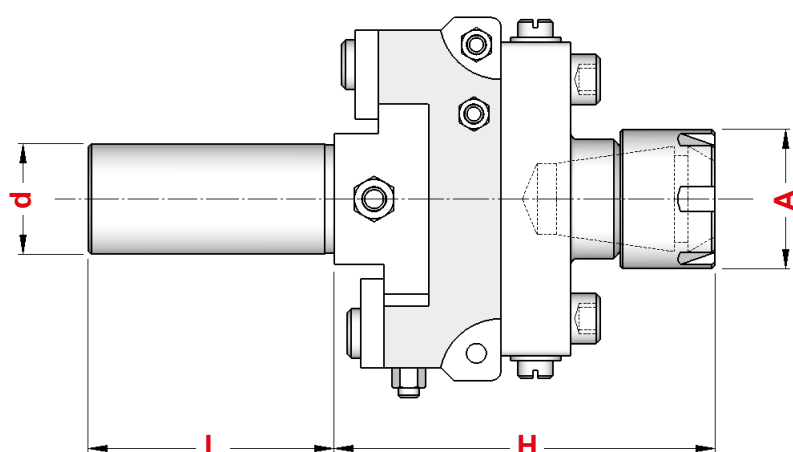
Art.	d	L	H	B	C	
2497	19,05	46	52	15	20	2987
1559	20,00	46	52	15	20	2987
2498	25,00	50	60	18	24	2988
2499	25,40	50	60	18	24	2988
1765	30,00	50	60	18	24	2988
2399	31,75	50	60	18	24	2988
1961	32,00	50	60	18	24	2988

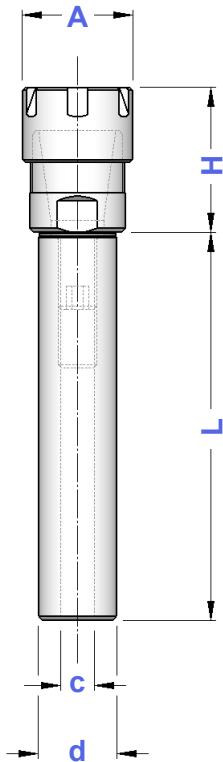


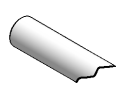
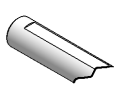
PORTAUTENSILI OSCILLANTI PER RECESSI CON ATTACCO CILINDRICO E PINZA ER

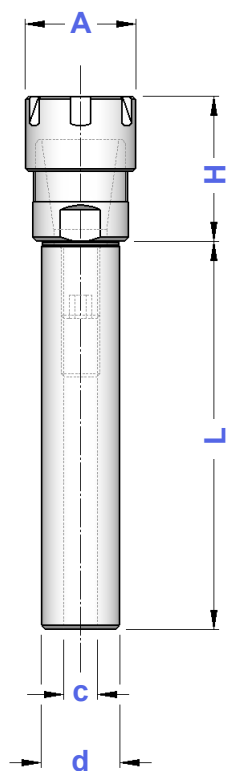
SLIDING TOOLHOLDERS FOR RECESSES WITH ER-DIN 6499 COLLET

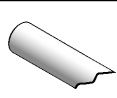
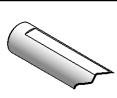
Art.	d	L	H	A	CAPACITA'	C				
1943	19,05	46	68	28	1,0 ÷ 13	20	2989	1230	5720	0787
1766	20,00	46	68	28	1,0 ÷ 13	20	2989	1230	5720	0787
2003	25,00	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
2023	25,40	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
1798	30,00	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
2024	31,75	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996
2032	32,00	50	82	35	1,0 ÷ 16	24	2990	1231	5721	0996





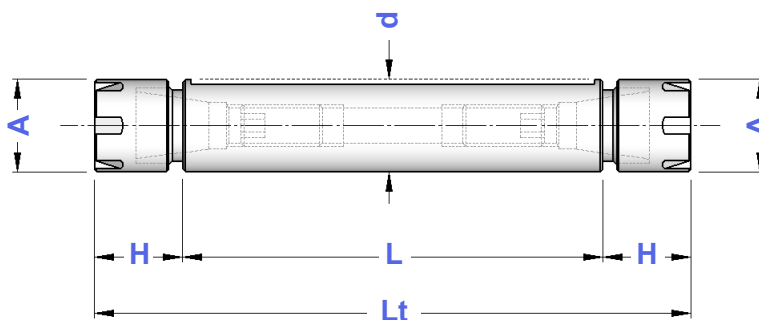
										
TIPO	Senza Piano	Con Piano	H	A	C	CAPACITA'				
d 5 - ER 8 GM / L 45	3207	—	24	12	—	1 ÷ 5	—	0373	5717	0554
d 6 - ER 8 GM / L 45	0394	—	24	12	—	1 ÷ 5	—	0373	5717	0554
d 6 - ER11 GM / L 45	0157	—	25	16	—	1 ÷ 7	—	0432	5718	5573
d 7 - ER11 GM / L 45	0187	—	25	16	—	1 ÷ 7	—	0432	5718	5573
d 8 - ER 8 GM / L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



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

DIN 1835 A

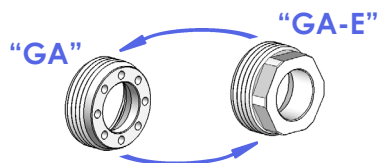
PORTAPINZE ER DOPPI CON ATTACCO CILINDRICO - GHIERA MINI STRAIGHT SHANK ER - DIN 6499 DOUBLE COLLET CHUCKS - MINI NUT



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

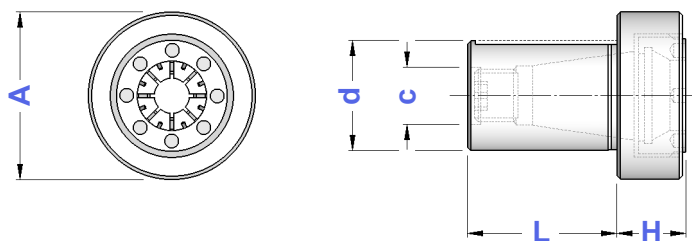
DIN 1835 A

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

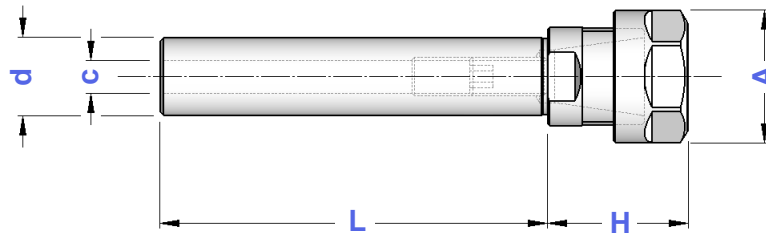


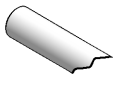
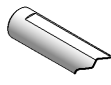
La ghiera tipo "GA" può essere sostituita con quella tipo "GA-E" che ha presa di chiave esagonale.

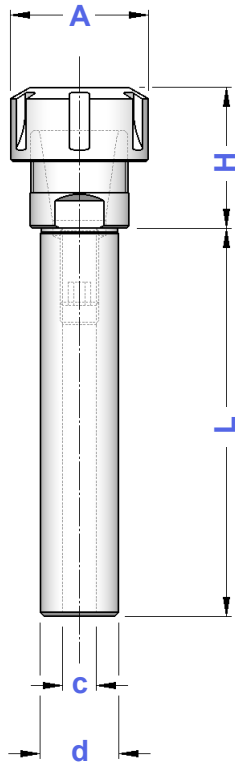
Nut "GA" type can be substituted by "GA-E" type with hexagonal wrench hold.



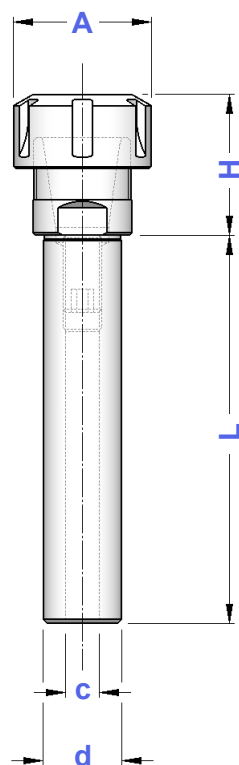
TIPO	Art.	H	L	A	C	CAPACITA'				
d 20 - ER 16 GA	2939	14	34	32	11	1 ÷ 10	0060	2868	3170	0364
d 25 - ER 20 GA	3200	18	34	38	13	1 ÷ 13	0200	2869	3171	0787
d 32 - ER 20 GA	2940	16	36	38	13	1 ÷ 13	0200	2869	3171	0787
d 32 - ER 25 GA	2942	19	36	40	19	1 ÷ 16	0190	2870	3172	0996
d 40 - ER 32 GA	2943	21	45	48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

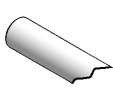
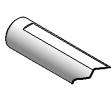


TIPO	 		H	A	C	CAPACITA'				
	Senza Piano	Con Piano								
d 14 - ER 16 GE / L 60	5244	—	36	28	7	1 ÷ 10	0181	1214	2906	0364
d 16 - ER 16 GE / L 60	5245	—	36	28	7	1 ÷ 10	0181	1214	2906	0364
d 16 - ER 16 GE / L 80	5246	—								
d 16 - ER 16 GE / L 100	5247	—								
d 16 - ER 16 GE / L 130	5248	—				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



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

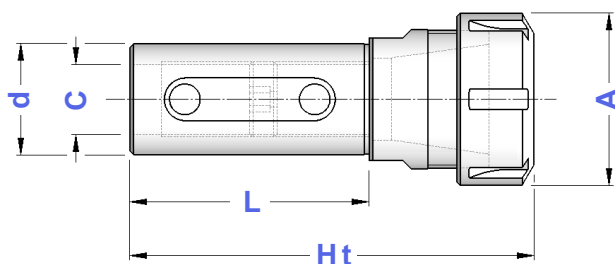


										
TIPO	Senza Piano	Con Piano	H	A	C	CAPACITA'				
d 25 - ER 32 / L 50 d 25 - ER 32 / L 70 d 25 - ER 32 / L 100 d 25 - ER 32 / L 130 d 25 - ER 32 / L 160	1216 SP 1221 SP 3924 SP 3927 SP 3928 SP	1216 P 1221 P 3924 P 3927 P 3928 P	54	50	13	2 ÷ 20	0188	4996	3670	0988
d 25 - ER 40 / L 50 d 25 - ER 40 / L 100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

DIN 1835 A

PORTAPINZA ER CON ATTACCO CILINDRICO E FORI DI LUBRIFICAZIONE GHIERA STANDARD

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

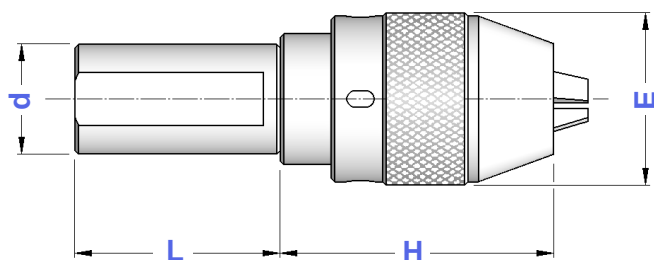


TIPO	Art.	A	Ht	L	C	CAPACITA'				
d 32 NC - ER 25	3408	42	110	70	19	1 ÷ 16	0190	4995	3669	0996
d 32 NC - ER 32	3401	50	118	70	23	2 ÷ 20	0191	4996	3670	0988
d 40 NC - ER 32	3402	50	115	75	23	2 ÷ 20	0191	4996	3670	0988
d 40 NC - ER 40	3404	63	130	75	23	3 ÷ 30	0191	4997	3671	0821

DIN 1835 A

MANDRINI AUTOSERRANTI INTEGRALI CON ATTACCO CILINDRICO ROTAZIONE DESTRA

STRAIGHT SHANK MONOLITHIC DRILL CHUCKS - RIGHT SPIN



Precisione di rotazione: 0,05 mm

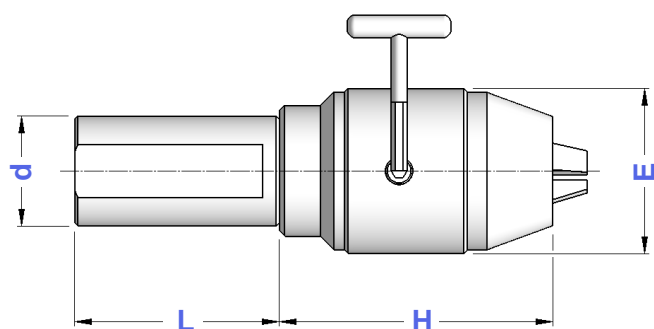
Runout accuracy: 0,05 mm

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

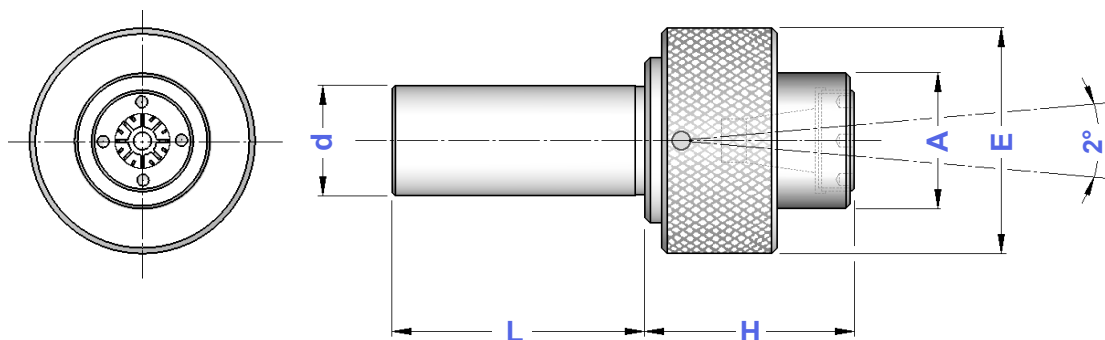
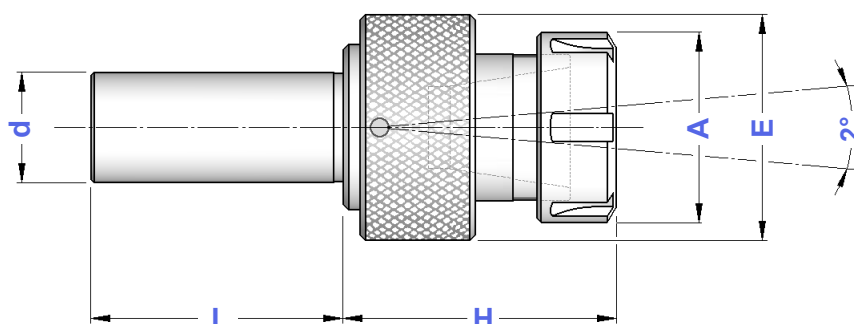
DIN 1835 A

MANDRINI AUTOSERRANTI INTEGRALI CON ATTACCO CILINDRICO ROTAZIONE DESTRA E SINISTRA

STRAIGHT SHANK MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN



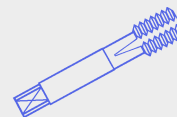
TIPO	Art.	CAPACITA'	E	H	L	
d 25 - DCU 13	8607	1 ÷ 13	50	82	70	2372
d 25 - DCU 16	8608	3 ÷ 16	50	87	70	
d 32 - DCU 13	8609	1 ÷ 13	50	82	60	2372
d 32 - DCU 16	8610	3 ÷ 16	57	87	60	
d 40 - DCU 13	8611	1 ÷ 13	50	82	70	2372
d 40 - DCU 16	8612	3 ÷ 16	57	87	70	

Figura 1

Figura 2


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

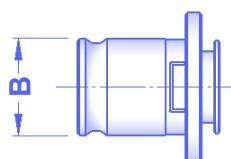
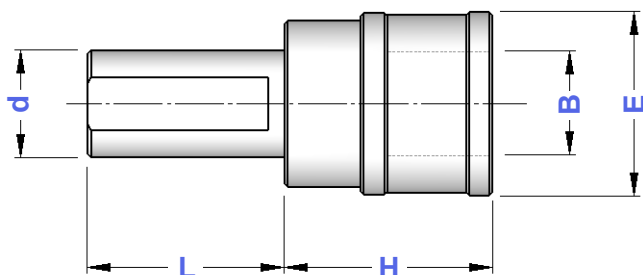
**DIN
1835 A**

**MASCHIATORI CON ATTACCO CILINDRICO
SENZA COMPENSAZIONE**
STRAIGHT SHANK TAP HOLDERS - WITHOUT COMPENSATION



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

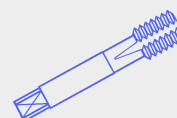
* Bussole tipo GR
Adapters GR type



**Bussole a Maschiare da pag. 172
a pag. 175 del Catalogo Generale**
Tap Adapters on General Catalogue
from page 172 to page 175

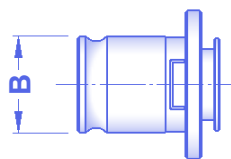
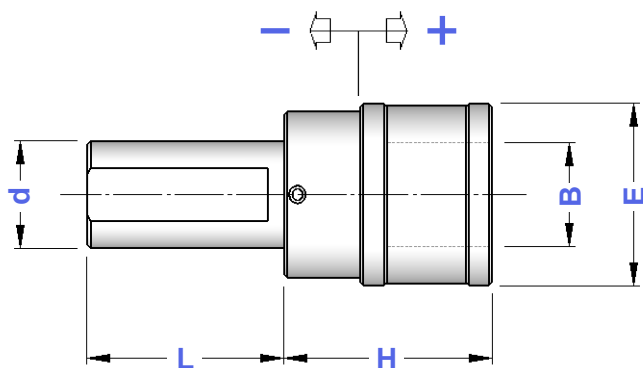
**DIN
1835 A**

**MASCHIATORI CON ATTACCO CILINDRICO
DOPPIA COMPENSAZIONE**
STRAIGHT SHANK TAP HOLDERS - DOUBLE COMPENSATION



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

* Bussole tipo GR
Adapters GR type



**Bussole a Maschiare da pag. 172
a pag. 175 del Catalogo Generale**
Tap Adapters on General Catalogue
from page 172 to page 175

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