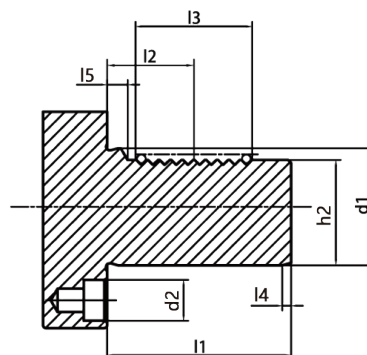
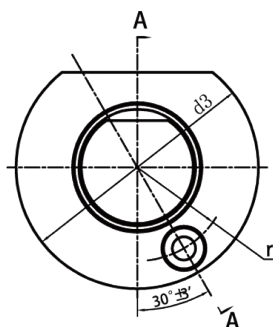
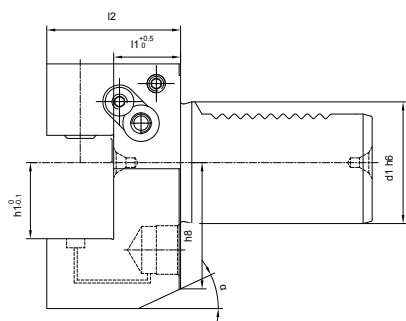


TOOL HOLDER DIN69880

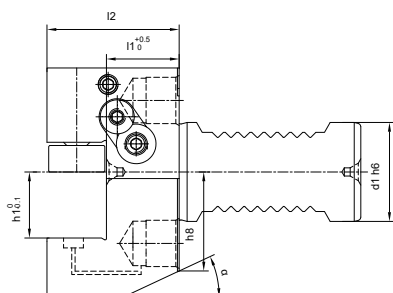
PORTAUTENSILI DIN69880



d1 H6	h1 max	d2	d3	h2 ±0.1	r ±0.02	l1 max	l2 ±0.05	l3 min	l4 max	l5
VDI16	12	8	40	15.0	14.5	32	12.7	16	2	3.5
VDI20	16	10	50	18.0	18.0	40	21.7	24	2	7.0
VDI25	16	10	58	23.5	21.0	48	21.7	24	2	7.0
VDI30	20	14	68	27.0	25.0	55	29.7	40	2	7.0
VDI40	25	14	83	36.0	32.0	63	29.7	40	3	7.0
VDI50	32	16	98	45.0	37.0	78	35.7	48	3	8.0
VDI60	32	16	123	55	48	94	43.7	56	4	10
VDI80	40	20	158	72	65	124	49.7	80	4	10



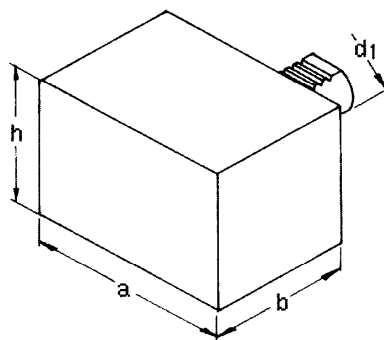
Modello standard



Modello IK doppio attacco a richiesta -consegna 20gg

Rectangular Soft Blank Form A1

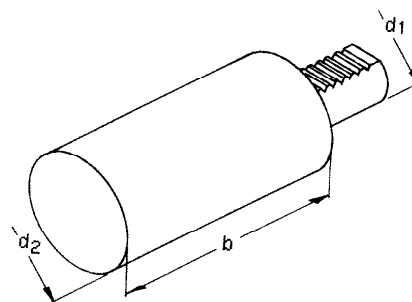
Tenero rettangolare forma A1



Code	d1	a	b	h	Euro	
169.17.12.HT	16	78	44	44	124,10 €	●
209.17.16.HT	20	100	60	65	145,00 €	●
309.17.20.HT	30	130	76	85	203,30 €	●
409.17.25.HT	40	151	96	100	303,00 €	●
509.17.32.HT	50	160	120	125	382,40 €	●

Round Soft Blank Form A2

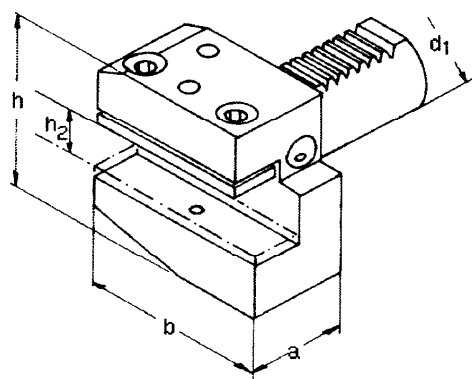
Tenero tondo forma A2



Code	d1	d2	b	Euro	
169.19.12.HT	16	40	60	74,90 €	●
209.19.16.HT	20	50	70	89,20 €	●
309.19.20.HT	30	68	100	93,60 €	●
309.19.21.HT	30	68	240	143,70 €	●
409.19.20.HT	40	83	120	116,20 €	●
409.19.21.HT	40	83	320	203,70 €	●
509.19.32.HT	50	98	135	171,30 €	●
509.19.33.HT	50	98	400	367,00 €	●

Radial Holder Form B1 Right, Short

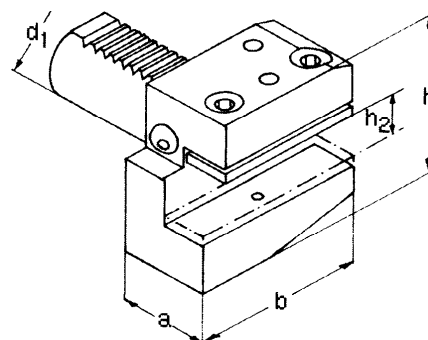
Portautensili radiali forma B1 destro, corto



Code	d1	h2	a	h	b	Euro
169.31.12.HT	16	12	24	42	42	113,20 €
209.31.16.HT	20	16	30	55	55	116,00 €
309.31.20.HT	30	20	40	66	70	130,40 €
409.31.25.HT	40	25	44	81	85	136,00 €
509.31.32.HT	50	32	55	95	100	175,80 €

Radial toolholders Form B2 Left, Short

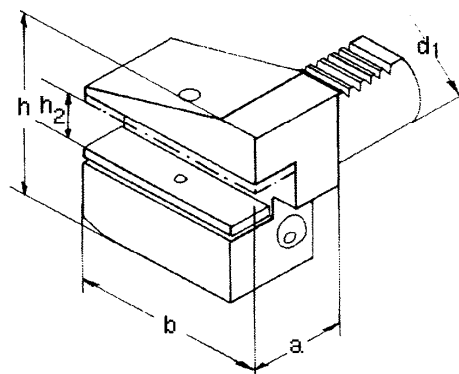
Portautensili radiali forma B2 sinistro, corto



Code	d1	h2	a	h	b	Euro
169.32.12.HT	16	12	24	42	42	113,20 €
209.32.16.HT	20	16	30	55	55	116,00 €
309.32.20.HT	30	20	40	66	70	130,40 €
409.32.25.HT	40	25	44	81	85	136,00 €
509.32.32.HT	50	32	55	95	100	175,80 €

Radial toolholders form B3 overhead right, short

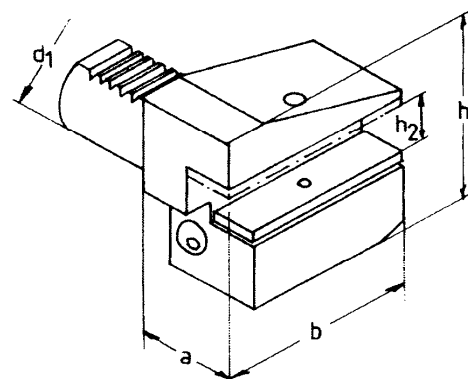
Portautensili radiali forma B3 sopraelevato destro, corto



Code	d1	h2	a	h	b	Euro
169.33.12.HT	16	12	24	42	42	113,20 €
209.33.16.HT	20	16	30	55	55	116,00 €
309.33.20.HT	30	20	40	73	70	130,40 €
409.33.25.HT	40	25	44	91	85	136,00 €
509.33.32.HT	50	32	55	110	100	175,80 €

Radial toolholders form B4 overhead left, short

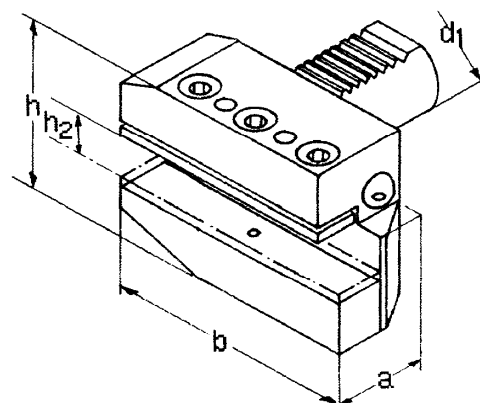
Portautensili radiali forma B4 sopraelevato sinistro, corto



Code	d1	h2	a	h	b	Euro
169.34.12.HT	16	12	24	42	42	113,20 €
209.34.16.HT	20	16	30	55	55	116,00 €
309.34.20.HT	30	20	40	73	70	130,40 €
409.34.25.HT	40	25	44	91	85	136,00 €
509.34.32.HT	50	32	55	110	100	175,80 €

Radial toolholders form B5 right, long

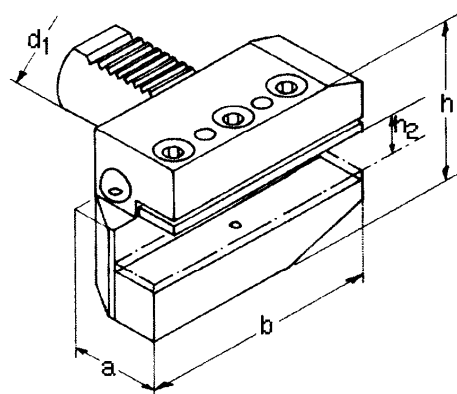
Portautensili radiali forma B5 destro, lungo



Code	d1	h2	a	h	b	Euro
169.35.12.HT	16	12	24	42	58	131,50 €
209.35.16.HT	20	16	30	55	75	144,10 €
309.35.20.HT	30	20	40	66	100	176,30 €
409.35.25.HT	40	25	44	91	118	190,70 €
509.35.32.HT	50	32	55	95	130	246,60 €

Radial toolholders form B6 left, long

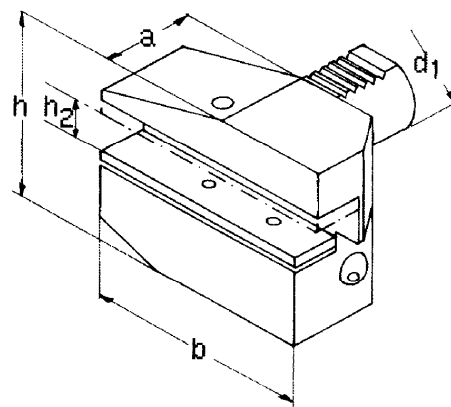
Portautensili radiali forma B6 sinistro, lungo



Code	d1	h2	a	h	b	Euro
169.36.12.HT	16	12	24	42	58	131,50 €
209.36.16.HT	20	16	30	55	75	144,10 €
309.36.20.HT	30	20	40	66	100	176,30 €
409.36.25.HT	40	25	44	91	118	190,70 €
509.36.32.HT	50	32	55	95	130	246,60 €

Radial toolholders form B7 overhead right, long

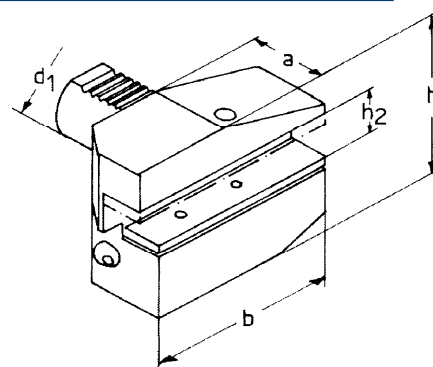
Portautensili radiali forma B7 destro, lungo



Code	d1	h2	a	h	b	Euro
169.37.12.HT	16	12	24	42	58	131,50 €
209.37.16.HT	20	16	30	55	75	144,10 €
309.37.20.HT	30	20	40	73	100	176,30 €
409.37.25.HT	40	25	44	91	118	190,70 €
509.37.32.HT	50	32	55	110	130	246,60 €

Radial toolholders form B8 overhead left, long

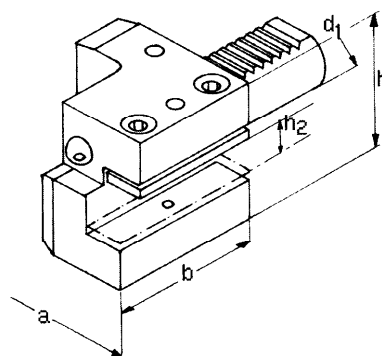
Portautensili radiali forma B8 sinistro, lungo



Code	d1	h2	a	h	b	Euro
169.38.12.HT	16	12	24	42	58	131,50 €
209.38.16.HT	20	16	30	55	75	144,10 €
309.38.20.HT	30	20	40	73	100	176,30 €
409.38.25.HT	40	25	44	91	118	190,70 €
509.38.32.HT	50	32	55	110	130	246,60 €

Axial toolholders form C1 right

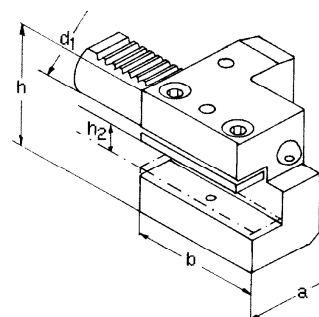
Portautensili assiali forma C1 destra



Code	d1	h2	b	h	a	Euro
169.41.12.HT	16	12	44	42	43	115,60 €
209.41.16.HT	20	16	50	55	52	137,80 €
309.41.20.HT	30	20	70	66	70	141,30 €
409.41.25.HT	40	25	85	91	85	165,80
509.41.32.HT	50	32	100	95	100	220,70 €

Axial toolholders form C2 left

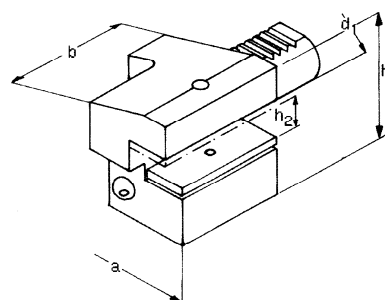
Portautensili assiali forma C2 sinistro



Code	d1	h2	b	h	a	Euro
169.42.12.HT	16	12	44	42	43	115,60 €
209.42.16.HT	20	16	50	55	52	137,80 €
309.42.20.HT	30	20	70	66	70	141,30 €
409.42.25.HT	40	25	85	91	85	165,80 €
509.42.32.HT	50	32	100	95	100	220,70 €

Axial toolholders form C3 overhead right, short

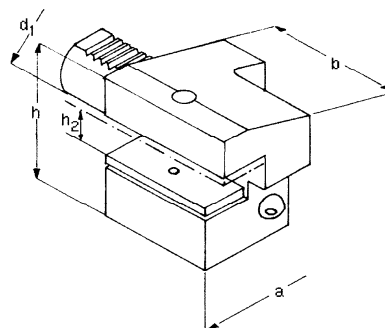
Portautensili assiali forma C3 sopraelevato destro, corto



Code	d1	h2	b	h	a	Euro	
169.43.12.HT	16	12	44	42	43	116,20 €	●
209.43.16.HT	20	16	50	55	52	138,80 €	●
309.43.20.HT	30	20	70	73	70	143,40 €	●
409.43.25.HT	40	25	85	91	85	165,80 €	●
509.43.32.HT	50	32	100	110	100	215,00 €	●

Axial toolholders form C4 overhead left, short

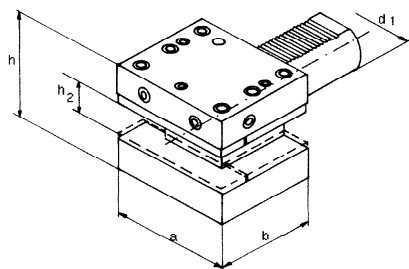
Portautensili assiali forma C4 sopraelevato sinistro, corto



Code	d1	h2	b	h	a	Euro	
169.44.12.HT	16	12	44	42	43	116,20 €	●
209.44.16.HT	20	16	50	55	52	138,80 €	●
309.44.20.HT	30	20	70	73	70	143,40 €	●
409.44.25.HT	40	25	85	91	85	165,80 €	●
509.44.32.HT	50	32	100	110	100	215,00 €	●

Rectangular toolholders with multiple seats form D

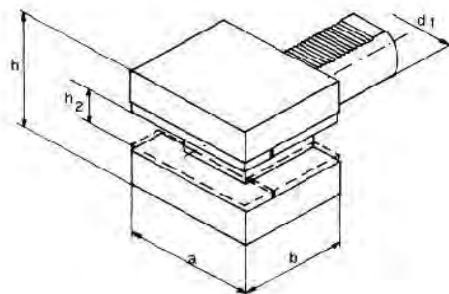
Portautensili rettangolari con sedi multiple forma D



Code	d1	h2	b	h	a	Euro	
309.89.12.HT	30	20	60	66	76	274,40 €	●
409.89.16.HT	40	25	72	81	90	315,20 €	●
509.89.20.HT	50	32	85	95	105	385,50 €	●

Rectangular toolholders with multiple seats, overhead form D2

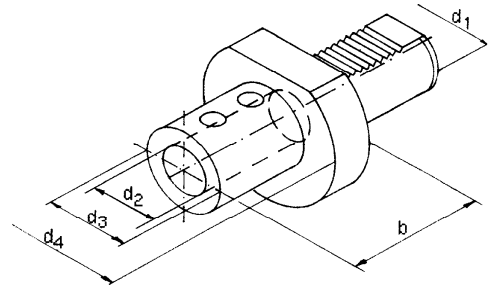
Portautensili rettangolari con sedi multiple, forma sopraelevata D2



Code	d1	h2	b	h	a	Euro	
309.90.12.HT	30	20	60	66	76	274,40 €	●
409.90.16.HT	40	25	72	81	90	315,20 €	●
509.90.20.HT	50	32	85	95	105	385,50 €	●

Boring holders for drills with indexable inserts form E1

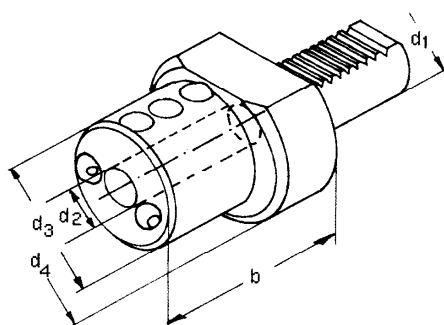
Portautensili per punte con inserti intercambiabili forma E1



Code	d1	d2	b	d4	d3	Euro	
209.51.16.HT	20	16	66	50	36	123,40 €	●
209.51.20.HT	20	20	67	50	40	123,40 €	●
209.51.25.HT	20	25	71	50	45	123,40 €	●
309.51.16.HT	30	16	66	68	36	126,40 €	●
309.51.20.HT	30	20	67	68	40	126,40 €	●
309.51.25.HT	30	25	71	68	45	126,40 €	●
309.51.32.HT	30	32	75	68	52	126,40 €	●
409.51.16.HT	40	16	66	83	36	135,60 €	●
409.51.20.HT	40	20	67	83	40	135,60 €	●
409.51.25.HT	40	25	71	83	45	135,60 €	●
409.51.32.HT	40	32	75	83	52	135,60 €	●
409.51.40.HT	40	40	90	83	65	135,60 €	●
509.51.16.HT	50	20	67	98	40	168,00 €	●
509.51.20.HT	50	25	80	98	45	168,00 €	●
509.51.32.HT	50	32	80	98	52	168,00 €	●
509.51.40.HT	50	40	90	98	65	175,80 €	●
509.51.50.HT	50	50	100	98	75	175,80 €	●

Boring bar holders form E2

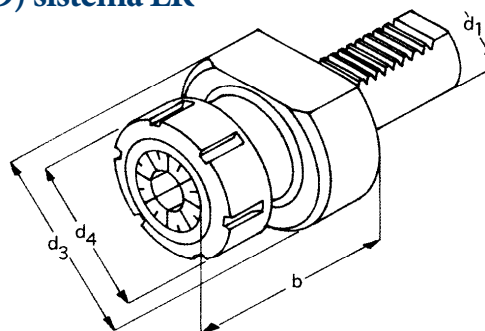
Portabarre forma E2



Code	d1	d2	b	d4	d3	Euro
169.52.06.HT	16	6	44	40	32	114,00 €
169.52.08.HT	16	8	44	40	32	114,00 €
169.52.10.HT	16	10	44	40	32	114,00 €
169.52.12.HT	16	12	44	40	40	114,00 €
169.52.16.HT	16	16	44	40	40	114,00 €
209.52.08.HT	20	8	50	50	40	114,00 €
209.52.10.HT	20	10	50	50	40	114,00 €
209.52.12.HT	20	12	50	50	40	114,00 €
209.52.16.HT	20	16	50	50	40	114,00 €
209.52.20.HT	20	20	50	50	50	114,00 €
309.52.08.HT	30	8	60	68	55	120,30 €
309.52.10.HT	30	10	60	68	55	120,30 €
309.52.12.HT	30	12	60	68	55	120,30 €
309.52.16.HT	30	16	60	68	55	120,30 €
309.52.20.HT	30	20	60	68	55	120,30 €
309.52.25.HT	30	25	60	68	68	120,30 €
309.52.32.HT	30	32	75	68	68	120,30 €
409.52.08.HT	40	8	75	83	55	126,40 €
409.52.10.HT	40	10	75	83	55	126,40 €
409.52.12.HT	40	12	75	83	55	126,40 €
409.52.16.HT	40	16	75	83	55	126,40 €
409.52.20.HT	40	20	75	83	55	126,40 €
409.52.25.HT	40	25	75	83	55	126,40 €
409.52.32.HT	40	32	75	83	83	126,40 €
409.52.40.HT	40	40	90	83	83	128,40 €
509.52.12.HT	50	12	90	98	68	148,00 €
509.52.16.HT	50	16	90	98	68	148,00 €
509.52.20.HT	50	20	90	98	68	148,00 €
509.52.25.HT	50	25	90	98	68	148,00 €
509.52.32.HT	50	32	90	98	68	148,00 €
509.52.40.HT	50	40	90	98	98	148,00 €
509.52.50.HT	50	50	100	98	98	148,00 €

chucks form E4 for collets ISO 15488 (DIN 6499) ER-system

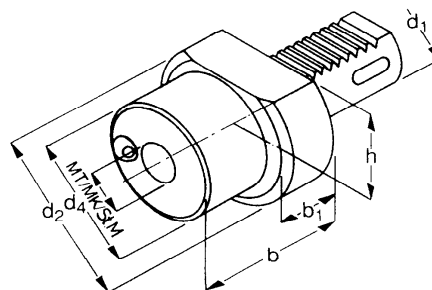
mandrini forma E4 per pinze ISO 15488 (DIN 6499) sistema ER



Code	d1	ER	b	d3	range	d4	Euro	
169.02.10.HT	16	16	40	40	1-10	32	183,70 €	●
209.02.10.HT	20	16	40	50	1-10	32	187,00 €	●
209.02.16.HT	20	25	54	50	2-16	42	188,50 €	●
309.02.16.HT	30	25	57	68	2-16	42	200,70 €	●
309.02.20.HT	30	32	62	68	2-20	50	200,70 €	●
309.02.26.HT	30	40	70	68	3-30	63	200,70 €	●
409.02.16.HT	40	25	70	83	2-16	42	213,10 €	●
409.02.20.HT	40	32	62	83	2-20	50	213,10 €	●
409.02.26.HT	40	40	75	83	3-30	63	213,10 €	●
509.02.26.HT	50	40	75	98	3-30	63	246,10 €	●

Adaptor sleeves for MT, tanged, form F1

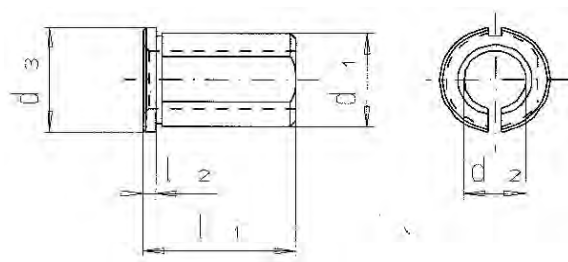
Manicotti adattatori per MT, con codolo, forma F1



Code	d1	MK	b	h	d2	d4	b1	Euro	
209.07.01.HT	20	1	22	23	50	50	22	118,60 €	●
209.07.02.HT	20	2	90	23	50	40	30	135,60 €	●
309.07.01.HT	30	1	27	28	68	68	27	126,00 €	●
309.07.02.HT	30	2	27	28	68	55	36	129,90 €	●
309.07.03.HT	30	3	73	28	68	58	22	133,80 €	●
409.07.02.HT	40	2	36	33	83	55	22	143,00 €	●
409.07.03.HT	40	3	50	33	83	58	22	146,50 €	●
409.07.04.HT	40	4	80	33	83	68	22	152,30 €	●
509.07.02.HT	50	2	36	35	98	55	30	164,70 €	●
509.07.03.HT	50	3	36	35	98	58	30	168,20 €	●
509.07.04.HT	50	4	50	35	98	68	30	170,80 €	●
509.07.05.HT	50	5	68	35	98	75	30	200,40 €	●

Reduction sleeves for boring bar holders form E2

Bussole di riduzione per portabarre forma E2

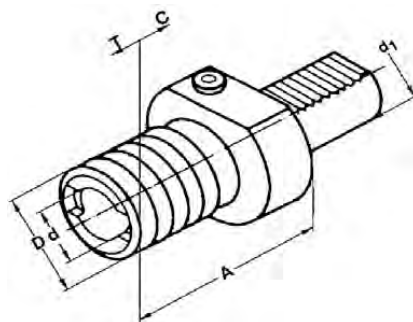


Code	d1	d2	d3	l1	l2	Euro	
709.25.08.HT	25	8	29	50	4	67,50 €	●
709.25.10.HT	25	10	29	50	4	67,50 €	●
709.25.12.HT	25	12	29	50	4	67,50 €	●
709.25.14.HT	25	14	29	50	4	67,50 €	●
709.25.16.HT	25	16	29	50	4	67,50 €	●
709.25.18.HT	25	18	29	50	4	67,50 €	●
709.25.20.HT	25	20	29	50	4	67,50 €	●
709.32.08.HT	32	8	36	60	4	67,50 €	●
709.32.10.HT	32	10	36	60	4	67,50 €	●
709.32.12.HT	32	12	36	60	4	67,50 €	●
709.32.14.HT	32	14	36	60	4	67,50 €	●
709.32.16.HT	32	16	36	60	4	67,50 €	●
709.32.18.HT	32	18	36	60	4	67,50 €	●
709.32.20.HT	32	20	36	60	4	67,50 €	●
709.32.25.HT	32	25	36	60	4	67,50 €	●
709.40.10.HT	40	10	44	75	4	67,50 €	●
709.40.12.HT	40	12	44	75	4	67,50 €	●
709.40.14.HT	40	14	44	75	4	67,50 €	●
709.40.16.HT	40	16	44	75	4	67,50 €	●
709.40.18.HT	40	18	44	75	4	67,50 €	●
709.40.20.HT	40	20	44	75	4	67,50 €	●
709.40.25.HT	40	25	44	75	4	67,50 €	●
709.40.32.HT	40	32	44	75	4	67,50 €	●



Quick change tapping chucks with length compensation on compression and expansion

Mandrini per maschiatura a cambio rapido con compensazione in compressione ed espansione



Code	d1	grand	A	D	d	Euro2
309.16.12.HT	30	M3/M14	55	38	19	524,10 €
309.16.20.HT	30	M5/M22	77	54	31	583,10 €
409.16.12.HT	40	M3/M14	55	38	19	517,60 €
409.16.20.HT	40	M5/M22	77	54	31	572,40 €
509.16.12.HT	50	M3/M14	55	38	19	568,50 €
509.16.20.HT	50	M5/M22	77	54	31	568,50 €

Protection steel plugs form Z2

Tappi di protezione in acciaio forma Z2



Code	b	D	l	Euro
169.29.13.HT	16	40	13	37,20 €
209.29.16.HT	20	50	16	40,50 €
309.29.20.HT	30	68	16	44,60 €
409.29.20.HT	40	83	20	51,80 €
509.29.20.HT	50	98	20	63,10 €