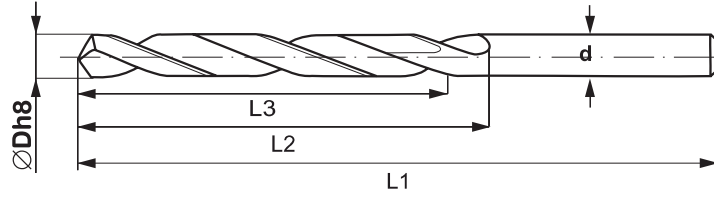


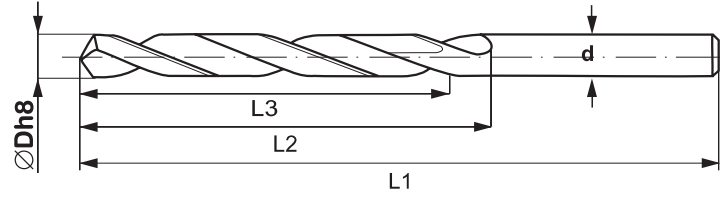
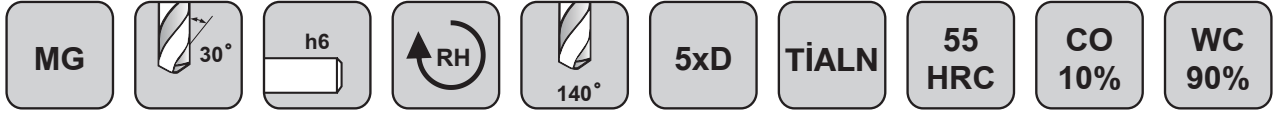
KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.02.4D.020	2,0	60	15	12	4	
KR.02.4D.021	2,1	60	16	14	4	
KR.02.4D.022	2,2	60	16	14	4	
KR.02.4D.023	2,3	60	16	14	4	
KR.02.4D.024	2,4	60	16	14	4	
KR.02.4D.025	2,5	60	18	16	4	
KR.02.4D.026	2,6	60	18	16	4	
KR.02.4D.027	2,7	60	18	16	4	
KR.02.4D.028	2,8	60	19	17	4	
KR.02.4D.029	2,9	60	20	18	4	
KR.02.5D.030	3,0	66	28	23	6	
KR.02.5D.031	3,1	66	28	23	6	
KR.02.5D.032	3,2	66	28	23	6	
KR.02.5D.033	3,3	66	28	23	6	
KR.02.5D.034	3,4	66	28	23	6	
KR.02.5D.035	3,5	66	28	23	6	
KR.02.5D.036	3,6	66	28	23	6	
KR.02.5D.037	3,7	66	28	23	6	
KR.02.5D.038	3,8	74	36	29	6	
KR.02.5D.039	3,9	74	36	29	6	
KR.02.5D.040	4,0	74	36	29	6	
KR.02.5D.041	4,1	74	36	29	6	
KR.02.5D.042	4,2	74	36	29	6	
KR.02.5D.043	4,3	74	36	29	6	
KR.02.5D.044	4,4	74	36	29	6	
KR.02.5D.045	4,5	74	36	29	6	
KR.02.5D.046	4,6	74	36	29	6	
KR.02.5D.047	4,7	74	36	29	6	
KR.02.5D.048	4,8	82	44	35	6	
KR.02.5D.049	4,9	82	44	35	6	
KR.02.5D.050	5,0	82	44	35	6	
KR.02.5D.051	5,1	82	44	35	6	
KR.02.5D.052	5,2	82	44	35	6	

KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.02.5D.053	5,3	82	44	35	6	
KR.02.5D.054	5,4	82	44	35	6	
KR.02.5D.055	5,5	82	44	35	6	
KR.02.5D.056	5,6	82	44	35	6	
KR.02.5D.057	5,7	82	44	35	6	
KR.02.5D.058	5,8	82	44	35	6	
KR.02.5D.059	5,9	82	44	35	6	
KR.02.5D.060	6,0	82	44	35	6	
KR.02.5D.061	6,1	91	53	43	8	
KR.02.5D.062	6,2	91	53	43	8	
KR.02.5D.063	6,3	91	53	43	8	
KR.02.5D.064	6,4	91	53	43	8	
KR.02.5D.065	6,5	91	53	43	8	
KR.02.5D.066	6,6	91	53	43	8	
KR.02.5D.067	6,7	91	53	43	8	
KR.02.5D.068	6,8	91	53	43	8	
KR.02.5D.069	6,9	91	53	43	8	
KR.02.5D.070	7,0	91	53	43	8	
KR.02.5D.071	7,1	91	53	43	8	
KR.02.5D.072	7,2	91	53	43	8	
KR.02.5D.073	7,3	91	53	43	8	
KR.02.5D.074	7,4	91	53	43	8	
KR.02.5D.075	7,5	91	53	43	8	
KR.02.5D.076	7,6	91	53	43	8	
KR.02.5D.077	7,7	91	53	43	8	
KR.02.5D.078	7,8	91	53	43	8	
KR.02.5D.079	7,9	91	53	43	8	
KR.02.5D.080	8,0	91	53	43	8	
KR.02.5D.081	8,1	103	61	49	10	
KR.02.5D.082	8,2	103	61	49	10	
KR.02.5D.083	8,3	103	61	49	10	
KR.02.5D.084	8,4	103	61	49	10	
KR.02.5D.085	8,5	103	61	49	10	



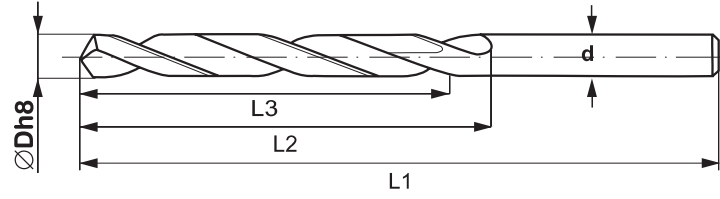
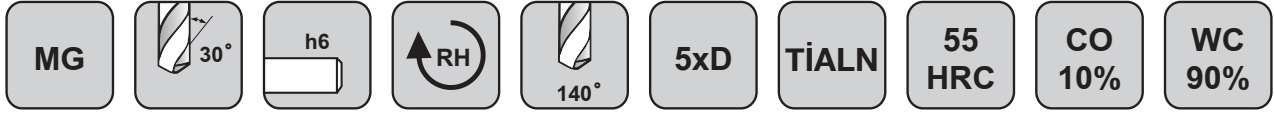
KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.02.5D.086	8,6	103	61	49	10	
KR.02.5D.087	8,7	103	61	49	10	
KR.02.5D.088	8,8	103	61	49	10	
KR.02.5D.089	8,9	103	61	49	10	
KR.02.5D.090	9,0	103	61	49	10	
KR.02.5D.091	9,1	103	61	49	10	
KR.02.5D.092	9,2	103	61	49	10	
KR.02.5D.093	9,3	103	61	49	10	
KR.02.5D.094	9,4	103	61	49	10	
KR.02.5D.095	9,5	103	61	49	10	
KR.02.5D.096	9,6	103	61	49	10	
KR.02.5D.097	9,7	103	61	49	10	
KR.02.5D.098	9,8	103	61	49	10	
KR.02.5D.099	9,9	103	61	49	10	
KR.02.5D.100	10,0	103	61	49	10	
KR.02.5D.101	10,1	118	71	56	12	
KR.02.5D.102	10,2	118	71	56	12	
KR.02.5D.103	10,3	118	71	56	12	
KR.02.5D.104	10,4	118	71	56	12	
KR.02.5D.105	10,5	118	71	56	12	
KR.02.5D.106	10,6	118	71	56	12	
KR.02.5D.107	10,7	118	71	56	12	
KR.02.5D.108	10,8	118	71	56	12	
KR.02.5D.109	10,9	118	71	56	12	
KR.02.5D.110	11,0	118	71	56	12	
KR.02.5D.111	11,1	118	71	56	12	
KR.02.5D.112	11,2	118	71	56	12	
KR.02.5D.113	11,3	118	71	56	12	
KR.02.5D.114	11,4	118	71	56	12	
KR.02.5D.115	11,5	118	71	56	12	
KR.02.5D.116	11,6	118	71	56	12	
KR.02.5D.117	11,7	118	71	56	12	

KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.02.5D.118	11,8	118	71	56	12	
KR.02.5D.119	11,9	118	71	56	12	
KR.02.5D.120	12,0	118	71	56	12	
KR.02.5D.121	12,1	124	77	60	14	
KR.02.5D.122	12,2	124	77	60	14	
KR.02.5D.123	12,3	124	77	60	14	
KR.02.5D.124	12,4	124	77	60	14	
KR.02.5D.125	12,5	124	77	60	14	
KR.02.5D.126	12,6	124	77	60	14	
KR.02.5D.127	12,7	124	77	60	14	
KR.02.5D.128	12,8	124	77	60	14	
KR.02.5D.129	12,9	124	77	60	14	
KR.02.5D.130	13,0	124	77	60	14	
KR.02.5D.135	13,5	124	77	60	14	
KR.02.5D.138	13,8	124	77	60	14	
KR.02.5D.140	14,0	124	77	60	14	
KR.02.5D.141	14,1	133	83	63	16	
KR.02.5D.142	14,2	133	83	63	16	
KR.02.5D.145	14,5	133	83	63	16	
KR.02.5D.148	14,8	133	83	63	16	
KR.02.5D.150	15,0	133	83	63	16	
KR.02.5D.155	15,5	133	83	63	16	
KR.02.5D.158	15,8	133	83	63	16	
KR.02.5D.160	16,0	133	83	63	16	
KR.02.5D.165	16,5	143	93	71	18	
KR.02.5D.170	17,0	143	93	71	18	
KR.02.5D.175	17,5	143	93	71	18	
KR.02.5D.180	18,0	143	93	71	18	
KR.02.5D.185	18,5	153	101	77	20	
KR.02.5D.190	19,0	153	101	77	20	
KR.02.5D.195	19,5	153	101	77	20	
KR.02.5D.200	20,0	153	101	77	20	



KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.04.4D.020	2,0	60	15	12	4	
KR.04.4D.021	2,1	60	16	14	4	
KR.04.4D.022	2,2	60	16	14	4	
KR.04.4D.023	2,3	60	16	14	4	
KR.04.4D.024	2,4	60	16	14	4	
KR.04.4D.025	2,5	60	18	16	4	
KR.04.4D.026	2,6	60	18	16	4	
KR.04.4D.027	2,7	60	18	16	4	
KR.04.4D.028	2,8	60	19	17	4	
KR.04.4D.029	2,9	60	20	18	4	
KR.04.5D.030	3,0	66	28	23	6	
KR.04.5D.031	3,1	66	28	23	6	
KR.04.5D.032	3,2	66	28	23	6	
KR.04.5D.033	3,3	66	28	23	6	
KR.04.5D.034	3,4	66	28	23	6	
KR.04.5D.035	3,5	66	28	23	6	
KR.04.5D.036	3,6	66	28	23	6	
KR.04.5D.037	3,7	66	28	23	6	
KR.04.5D.038	3,8	74	36	29	6	
KR.04.5D.039	3,9	74	36	29	6	
KR.04.5D.040	4,0	74	36	29	6	
KR.04.5D.041	4,1	74	36	29	6	
KR.04.5D.042	4,2	74	36	29	6	
KR.04.5D.043	4,3	74	36	29	6	
KR.04.5D.044	4,4	74	36	29	6	
KR.04.5D.045	4,5	74	36	29	6	
KR.04.5D.046	4,6	74	36	29	6	
KR.04.5D.047	4,7	74	36	29	6	
KR.04.5D.048	4,8	82	44	35	6	
KR.04.5D.049	4,9	82	44	35	6	
KR.04.5D.050	5,0	82	44	35	6	
KR.04.5D.051	5,1	82	44	35	6	
KR.04.5D.052	5,2	82	44	35	6	

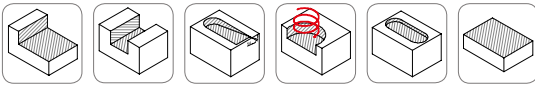
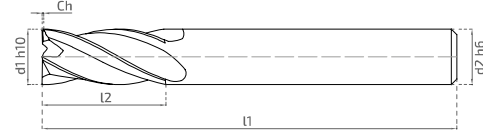
KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.04.5D.053	5,3	82	44	35	6	
KR.04.5D.054	5,4	82	44	35	6	
KR.04.5D.055	5,5	82	44	35	6	
KR.04.5D.056	5,6	82	44	35	6	
KR.04.5D.057	5,7	82	44	35	6	
KR.04.5D.058	5,8	82	44	35	6	
KR.04.5D.059	5,9	82	44	35	6	
KR.04.5D.060	6,0	82	44	35	6	
KR.04.5D.061	6,1	91	53	43	8	
KR.04.5D.062	6,2	91	53	43	8	
KR.04.5D.063	6,3	91	53	43	8	
KR.04.5D.064	6,4	91	53	43	8	
KR.04.5D.065	6,5	91	53	43	8	
KR.04.5D.066	6,6	91	53	43	8	
KR.04.5D.067	6,7	91	53	43	8	
KR.04.5D.068	6,8	91	53	43	8	
KR.04.5D.069	6,9	91	53	43	8	
KR.04.5D.070	7,0	91	53	43	8	
KR.04.5D.071	7,1	91	53	43	8	
KR.04.5D.072	7,2	91	53	43	8	
KR.04.5D.073	7,3	91	53	43	8	
KR.04.5D.074	7,4	91	53	43	8	
KR.04.5D.075	7,5	91	53	43	8	
KR.04.5D.076	7,6	91	53	43	8	
KR.04.5D.077	7,7	91	53	43	8	
KR.04.5D.078	7,8	91	53	43	8	
KR.04.5D.079	7,9	91	53	43	8	
KR.04.5D.080	8,0	91	53	43	8	
KR.04.5D.081	8,1	103	61	49	10	
KR.04.5D.082	8,2	103	61	49	10	
KR.04.5D.083	8,3	103	61	49	10	
KR.04.5D.084	8,4	103	61	49	10	
KR.04.5D.085	8,5	103	61	49	10	



KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.04.5D.086	8,6	103	61	49	10	
KR.04.5D.087	8,7	103	61	49	10	
KR.04.5D.088	8,8	103	61	49	10	
KR.04.5D.089	8,9	103	61	49	10	
KR.04.5D.090	9,0	103	61	49	10	
KR.04.5D.091	9,1	103	61	49	10	
KR.04.5D.092	9,2	103	61	49	10	
KR.04.5D.093	9,3	103	61	49	10	
KR.04.5D.094	9,4	103	61	49	10	
KR.04.5D.095	9,5	103	61	49	10	
KR.04.5D.096	9,6	103	61	49	10	
KR.04.5D.097	9,7	103	61	49	10	
KR.04.5D.098	9,8	103	61	49	10	
KR.04.5D.099	9,9	103	61	49	10	
KR.04.5D.100	10,0	103	61	49	10	
KR.04.5D.101	10,1	118	71	56	12	
KR.04.5D.102	10,2	118	71	56	12	
KR.04.5D.103	10,3	118	71	56	12	
KR.04.5D.104	10,4	118	71	56	12	
KR.04.5D.105	10,5	118	71	56	12	
KR.04.5D.106	10,6	118	71	56	12	
KR.04.5D.107	10,7	118	71	56	12	
KR.04.5D.108	10,8	118	71	56	12	
KR.04.5D.109	10,9	118	71	56	12	
KR.04.5D.110	11,0	118	71	56	12	
KR.04.5D.111	11,1	118	71	56	12	
KR.04.5D.112	11,2	118	71	56	12	
KR.04.5D.113	11,3	118	71	56	12	
KR.04.5D.114	11,4	118	71	56	12	
KR.04.5D.115	11,5	118	71	56	12	
KR.04.5D.116	11,6	118	71	56	12	
KR.04.5D.117	11,7	118	71	56	12	

KOD	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	d (mm)	FİYAT EUR
KR.04.5D.118	11,8	118	71	56	12	
KR.04.5D.119	11,9	118	71	56	12	
KR.04.5D.120	12,0	118	71	56	12	
KR.04.5D.121	12,1	124	77	60	14	
KR.04.5D.122	12,2	124	77	60	14	
KR.04.5D.123	12,3	124	77	60	14	
KR.04.5D.124	12,4	124	77	60	14	
KR.04.5D.125	12,5	124	77	60	14	
KR.04.5D.126	12,6	124	77	60	14	
KR.04.5D.127	12,7	124	77	60	14	
KR.04.5D.128	12,8	124	77	60	14	
KR.04.5D.129	12,9	124	77	60	14	
KR.04.5D.130	13,0	124	77	60	14	
KR.04.5D.135	13,5	124	77	60	14	
KR.04.5D.138	13,8	124	77	60	14	
KR.04.5D.140	14,0	124	77	60	14	
KR.04.5D.141	14,1	133	83	63	16	
KR.04.5D.142	14,2	133	83	63	16	
KR.04.5D.145	14,5	133	83	63	16	
KR.04.5D.148	14,8	133	83	63	16	
KR.04.5D.150	15,0	133	83	63	16	
KR.04.5D.155	15,5	133	83	63	16	
KR.04.5D.158	15,8	133	83	63	16	
KR.04.5D.160	16,0	133	83	63	16	
KR.04.5D.165	16,5	143	93	71	18	
KR.04.5D.170	17,0	143	93	71	18	
KR.04.5D.175	17,5	143	93	71	18	
KR.04.5D.180	18,0	143	93	71	18	
KR.04.5D.185	18,5	153	101	77	20	
KR.04.5D.190	19,0	153	101	77	20	
KR.04.5D.195	19,5	153	101	77	20	
KR.04.5D.200	20,0	153	101	77	20	

STANDART KISA KARBÜR PARMAK FREZE

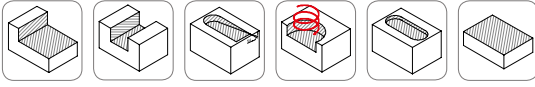
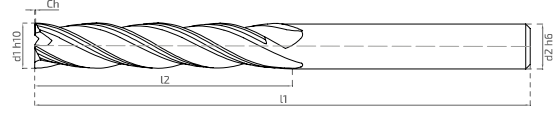


KOD	d1 h10	L2 (mm)	L1 (mm)	d2 h6	KÖŞE PAH	Z	FİYAT EUR
KR.81000	1	3	50	4	0	4	
KR.81050	1,5	6	50	4	0	4	
KR.81100	2	7	50	4	0	4	
KR.81150	2,5	9	50	4	0	4	
KR.81200	3	9	38	3	0	4	
KR.81201	3	9	50	4	0	4	
KR.81300	4	14	51	4	0,1	4	
KR.81400	5	15	51	5	0,1	4	
KR.81450	6	15	58	6	0,1	4	
KR.81500	7	15	64	8	0,1	4	
KR.81550	8	20	64	8	0,1	4	
KR.81600	9	21	73	10	0,1	4	
KR.81650	10	21	73	10	0,1	4	
KR.81700	11	25	82	12	0,1	4	
KR.81750	12	25	82	12	0,15	4	
KR.81790	13	30	82	14	0,15	4	
KR.81800	14	30	82	14	0,15	4	
KR.81840	15	35	93	16	0,1	4	
KR.81850	16	35	93	16	0,1	4	
KR.81900	18	38	93	18	0,1	4	
KR.81950	20	38	105	20	0,15	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

STANDART UZUN KARBÜR PARMAK FREZE

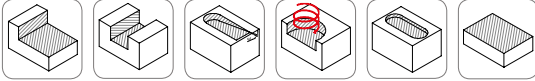
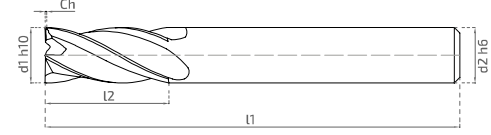
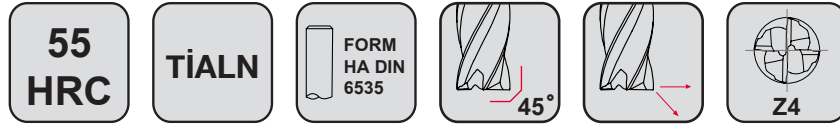


KOD	d1 h10	L2 (mm)	L1 (mm)	d2 h6	KÖŞE PAH	Z	FİYAT EUR
KR.83010	1	9	50	4	0	4	
KR.83015	1,5	9	50	4	0	4	
KR.83020	2	12	50	4	0	4	
KR.83030	3	15	75	3	0,1	4	
KR.83050	4	20	75	4	0,1	4	
KR.83100	5	20	75	5	0,1	4	
KR.83150	6	25	75	6	0,1	4	
KR.83170	6	30	100	6	0,1	4	
KR.83200	8	35	100	8	0,1	4	
KR.83250	10	40	110	10	0,1	4	
KR.83300	12	45	110	12	0,15	4	
KR.83320	12	60	150	12	0,15	4	
KR.83350	14	60	150	14	0,15	4	
KR.83400	16	75	150	16	0,15	4	
KR.83450	18	75	150	18	0,15	4	
KR.83500	20	75	150	20	0,15	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

STANDART KISA ECOPLUS KARBÜR PARMAK FREZE



KOD	d1 h10	L2 (mm)	L1 (mm)	d2 h6	KÖŞE PAH	Z	FİYAT EUR
KR.71200	3	12	50	4	0	4	
KR.71300	4	14	50	4	0,1	4	
KR.71400	5	16	50	5	0,1	4	
KR.71450	6	19	50	6	0,1	4	
KR.71550	8	20	60	8	0,1	4	
KR.71650	10	22	70	10	0,1	4	
KR.71750	12	25	75	12	0,15	4	
KR.71800	14	30	85	14	0,15	4	
KR.71850	16	35	92	16	0,1	4	
KR.71900	18	38	92	18	0,1	4	
KR.71950	20	38	100	20	0,15	4	
KR.72000	22	38	100	22	0,15	4	
KR.72030	24	38	100	24	0,15	4	
KR.72050	25	38	100	25	0,15	4	

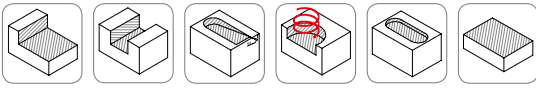
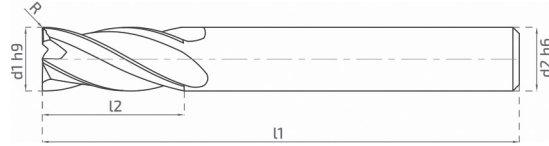
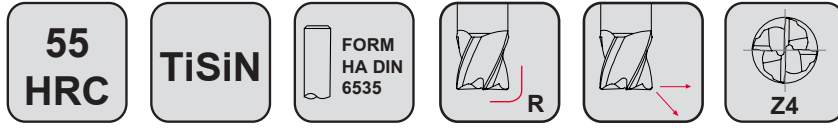
STANDART UZUN ECOPLUS KARBÜR PARMAK FREZE

KOD	d1 h10	L2 (mm)	L1 (mm)	d2 h6	KÖŞE PAH	Z	FİYAT EUR
KR.73030	3	20	75	3	0,1	4	
KR.73050	4	20	75	4	0,1	4	
KR.73100	5	20	75	5	0,1	4	
KR.73150	6	25	75	6	0,1	4	
KR.73200	8	45	100	8	0,1	4	
KR.73250	10	45	100	10	0,1	4	
KR.73300	12	45	100	12	0,15	4	
KR.73350	14	60	150	14	0,15	4	
KR.73400	16	75	150	16	0,15	4	
KR.73450	18	75	150	18	0,15	4	
KR.73500	20	75	150	20	0,15	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

KISA KÖŞE RADYÜS KARBÜR PARMAK FREZE

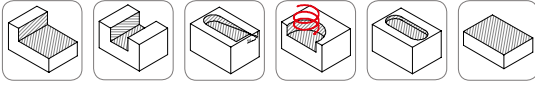
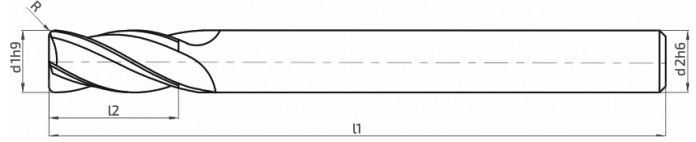
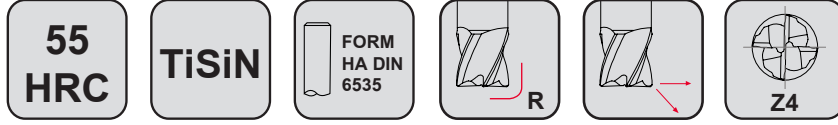


KOD	d1 h9	L2 (mm)	L1 (mm)	d2 h6	R	Z	FİYAT EUR
KR.81200R0.50	3	8	50	4	0,5	4	
KR.81200R1.00	3	8	50	4	1	4	
KR.81300R0.50	4	10	50	4	0,5	4	
KR.81300R1.00	4	10	50	4	1	4	
KR.81400R0.50	5	13	50	5	0,5	4	
KR.81400R1.00	5	13	50	5	1	4	
KR.81450R0.50	6	15	50	6	0,5	4	
KR.81450R1.00	6	15	50	6	1	4	
KR.81550R0.50	8	20	60	8	0,5	4	
KR.81550R1.00	8	20	60	8	1	4	
KR.81650R0.50	10	25	75	10	0,5	4	
KR.81650R1.00	10	25	75	10	1	4	
KR.81750R0.50	12	30	75	12	0,5	4	
KR.81750R1.00	12	30	75	12	1	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRc	Sertleştirilmiş Çelik >54 HRc	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

UZUN KÖŞE RADYÜS KARBÜR PARMAK FREZE

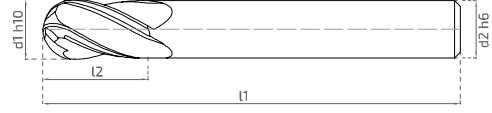


KOD	d1 h9	L2 (mm)	L1 (mm)	d2 h6	R	Z	FİYAT EUR
KR.83030R0.50	3	8	75	3	0,5	4	
KR.83030R1.00	3	8	75	3	1	4	
KR.83050R0.50	4	10	75	4	0,5	4	
KR.83050R1.00	4	10	75	4	1	4	
KR.83100R0.50	5	15	75	5	0,5	4	
KR.83100R1.00	5	15	75	5	1	4	
KR.83150R0.50	6	15	100	6	0,5	4	
KR.83150R1.00	6	15	100	6	1	4	
KR.83200R0.50	8	20	100	8	0,5	4	
KR.83200R1.00	8	20	100	8	1	4	
KR.83250R0.50	10	25	100	10	0,5	4	
KR.83250R1.00	10	25	100	10	1	4	
KR.83300R0.50	12	30	100	12	0,5	4	
KR.83300R1.00	12	30	100	12	1	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRc	Sertleştirilmiş Çelik >54 HRc	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

4 AĞIZ KÜRESEL KISA KARBÜR PARMAK FREZE



KOD	d1 h10	L2 (mm)	L1 (mm)	d2 h6	Z	FİYAT EUR
KR.81234	3	12	38	3	4	
KR.81334	4	14	51	4	4	
KR.81434	5	20	51	5	4	
KR.81484	6	20	58	6	4	
KR.81584	8	20	64	8	4	
KR.81684	10	25	73	10	4	
KR.81784	12	25	82	12	4	

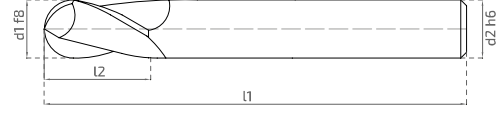
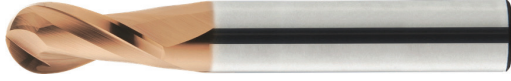
4 AĞIZ KÜRESEL UZUN KARBÜR PARMAK FREZE

KOD	d1 h10	L2 (mm)	L1 (mm)	d2 h6	Z	FİYAT EUR
KR.83034	3	8	75	3	4	
KR.83084	4	10	75	4	4	
KR.83134	5	10	75	5	4	
KR.83184	6	15	75	6	4	
KR.83186	6	15	100	6	4	
KR.83234	8	15	75	8	4	
KR.83236	8	15	100	8	4	
KR.83284	10	20	110	10	4	
KR.83334	12	20	110	12	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRc	Sertleştirilmiş Çelik >54 HRc	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

2 AĞIZ KÜRESEL KISA KARBÜR PARMAK FREZE



KOD	d1 f8	L2 (mm)	L1 (mm)	d2 h6	z	FİYAT EUR
KR.81035	1	2,5	50	4	2	
KR.81085	1,5	4	50	4	2	
KR.81135	2	5	50	4	2	
KR.81185	2,5	6	50	4	2	
KR.81235	3	8	50	4	2	
KR.81335	4	8	51	4	2	
KR.81435	5	10	51	5	2	
KR.81485	6	12	58	6	2	
KR.81585	8	14	64	8	2	
KR.81685	10	18	73	10	2	
KR.81785	12	22	82	12	2	

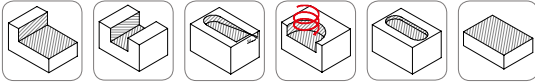
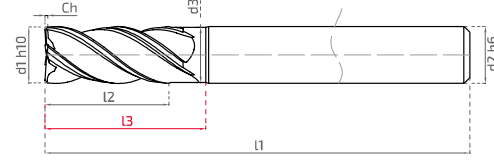
2 AĞIZ KÜRESEL UZUN KARBÜR PARMAK FREZE

KOD	d1 h9	L2 (mm)	L1 (mm)	d2 h6	z	FİYAT EUR
KR.83035	3	8	75	3	2	
KR.83085	4	10	75	4	2	
KR.83135	5	10	75	5	2	
KR.83185	6	10	75	6	2	
KR.83187	6	15	100	6	2	
KR.83235	8	15	100	8	2	
KR.83285	10	20	110	10	2	
KR.83335	12	22	110	12	2	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRc	Sertleştirilmiş Çelik >54 HRc	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

CHATTER FREE KARBÜR PARMAK FREZE

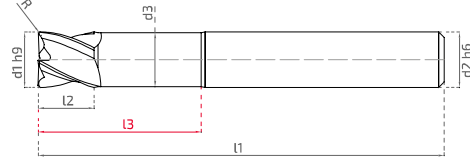
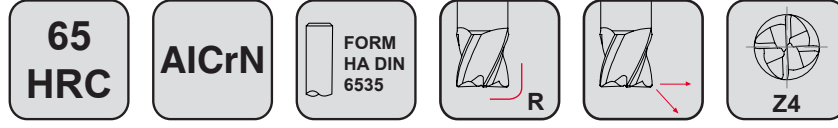


KOD	d1 h9	L2 (mm)	L3 (mm)	d3 (mm)	L1 (mm)	d2 h6	KÖŞE PAH	Z	FİYAT EUR
KR.81080	1	2,5	-	-	50	4	0	4	
KR.81130	2	4	6	1,95	50	4	0,08	4	
KR.81180	2,5	6	10	2,4	58	6	0,15	4	
KR.81230	3	8	12	2,8	58	6	0,15	4	
KR.81330	4	11	15	3,8	58	6	0,15	4	
KR.81430	5	12	16	4,8	58	6	0,25	4	
KR.81480	6	14	19	5,8	58	6	0,25	4	
KR.81530	7	19	25	6,8	64	8	0,3	4	
KR.81580	8	20	28	7,8	64	8	0,3	4	
KR.81680	10	22	32	9,7	73	10	0,4	4	
KR.81780	12	27	38	11,7	82	12	0,5	4	
KR.81830	14	32	40	13,6	82	14	0,5	4	
KR.81880	16	34	49	15,5	93	16	0,6	4	
KR.81930	18	35	53	17,6	93	18	0,6	4	
KR.81980	20	42	60	19,6	105	20	0,6	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRc	Sertleştirilmiş Çelik >54 HRc	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	●	●	●	○	○	○	○

KÖŞE RADYÜS KARBÜR PARMAK FREZE

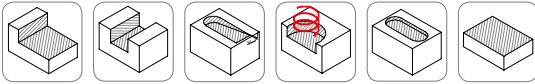
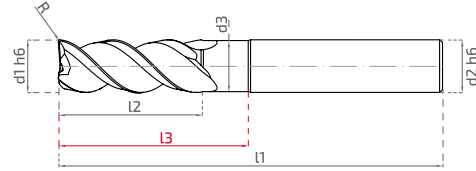
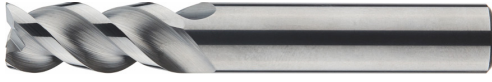
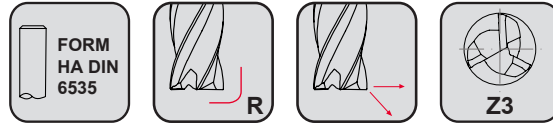


KOD	d1 h9	L2 (mm)	L3 (mm)	d3 (mm)	L1 (mm)	d2 h6	R	z	FİYAT EUR
KR.81130R0.50	2	2	12	1,9	58	6	0,5	4	
KR.81230R0.50	3	3	16	2,8	58	6	0,5	4	
KR.81230R1.00	3	3	16	2,8	58	6	1	4	
KR.81330R0.50	4	4	20	3,8	58	6	0,5	4	
KR.81330R1.00	4	4	20	3,8	58	6	1	4	
KR.81430R0.50	5	5	18	4,8	58	6	0,5	4	
KR.81430R1.00	5	5	18	4,8	58	6	1	4	
KR.81480R0.50	6	6	23	5,8	58	6	0,5	4	
KR.81480R1.00	6	6	23	5,8	58	6	1	4	
KR.81580R0.50	8	8	25	7,7	64	8	0,5	4	
KR.81580R1.00	8	8	25	7,7	64	8	1	4	
KR.81680R0.50	10	10	32	9,7	73	10	0,5	4	
KR.81680R1.00	10	10	32	9,7	73	10	1	4	
KR.81780R0.50	12	12	36	11,7	82	12	0,5	4	
KR.81780R1.00	12	12	36	11,7	82	12	1	4	
KR.81780R2.00	12	12	36	11,7	82	12	2	4	
KR.81880R1.00	16	16	43	15,5	93	16	1	4	
KR.81880R2.00	16	16	43	15,5	93	16	2	4	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRc	Sertleştirilmiş Çelik >54 HRc	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	●	●	○	○	○	○	○

3 AĞIZ KISA ALÜMİNYUM KARBÜR PARMAK FREZELER



KOD	d1 h6	d2 h6	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	R	z	FİYAT EUR
KR.88000	3	6	2,8	58	8	13	0,2	3	
KR.88050	4	6	3,8	58	13	15	0,2	3	
KR.88100	5	6	4,8	58	15	21	0,2	3	
KR.88150	6	6	5,7	58	15	26	0,2	3	
KR.88200	8	8	7,7	64	22	30	0,2	3	
KR.88250	10	10	9,7	73	25	35	0,2	3	
KR.88300	12	12	11,7	82	28	40	0,2	3	
KR.88350	14	14	13,7	82	28	40	0,2	3	
KR.88400	16	16	15,7	93	37	53	0,2	3	
KR.88450	20	20	19,7	105	38	54	0,2	3	

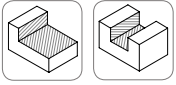
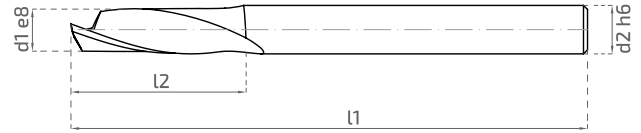
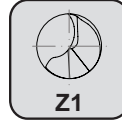
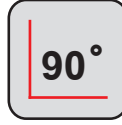
3 AĞIZ UZUN ALÜMİNYUM KARBÜR PARMAK FREZELER

KOD	d1 h6	d2 h6	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	R	z	FİYAT EUR
KR.88500	3	6	2,8	75	8	13	0,2	3	
KR.88550	4	6	3,8	75	13	15	0,2	3	
KR.88600	5	6	4,8	75	15	21	0,2	3	
KR.88650	6	6	5,7	108	15	45	0,2	3	
KR.88700	8	8	7,7	108	18	62	0,2	3	
KR.88750	10	10	9,7	108	20	62	0,2	3	
KR.88800	12	12	11,7	125	25	105	0,2	3	
KR.88850	14	14	13,7	125	25	105	0,2	3	
KR.88900	16	16	15,7	160	30	110	0,2	3	
KR.88950	20	20	19,7	200	30	115	0,2	3	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
○	○	○	○	○	○	●	○	○

TEK AĞIZ ALÜMİNYUM KARBÜR PARMAK FREZELER

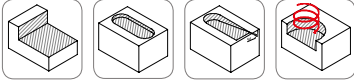
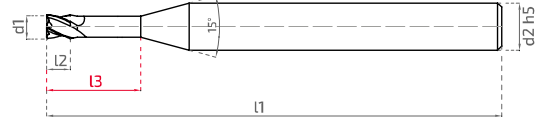
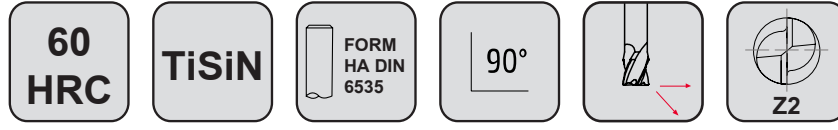


KOD	d1 e8	d2 h6	L1 (mm)	L2 (mm)	Z	FİYAT EUR
KR.901.1105	3	3	50	8	1	
KR.901.1110	4	4	64	12	1	
KR.901.1111	4	4	64	20	1	
KR.901.1114	5	5	64	16	1	
KR.901.1119	6	6	64	20	1	
KR.901.1120	6	6	76	30	1	
KR.901.1122	8	8	64	25	1	
KR.901.1123	8	8	76	38	1	
KR.901.1124	10	10	76	30	1	

● Önerilir ◐ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
○	○	○	○	○	○	●	○	○

MİKRO DÜZ KARBÜR PARMAK FREZE

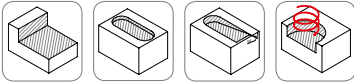
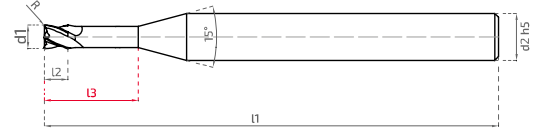
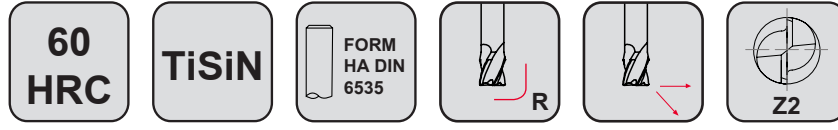


KOD	d1 (mm)	L2 (mm)	L3 (mm)	L1 (mm)	d2 h5	Z	FİYAT EUR
KR.80110	0,5	0,5	2	50	4	2	
KR.80111	0,5	0,5	3	50	4	2	
KR.80112	0,5	0,5	4	50	4	2	
KR.80120	1	1	2	50	4	2	
KR.80121	1	1	4	50	4	2	
KR.80122	1	1	6	50	4	2	
KR.80123	1	1	8	50	4	2	
KR.80124	1	1	10	50	4	2	
KR.80125	1	1	12	50	4	2	
KR.80126	1	1	14	50	4	2	
KR.80127	1	1	16	50	4	2	
KR.80130	1,5	1,5	4	50	4	2	
KR.80131	1,5	1,5	6	50	4	2	
KR.80132	1,5	1,5	10	50	4	2	
KR.80133	1,5	1,5	12	50	4	2	
KR.80134	1,5	1,5	14	50	4	2	
KR.80135	1,5	1,5	16	50	4	2	
KR.80140	2	2	4	50	4	2	
KR.80141	2	2	6	50	4	2	
KR.80142	2	2	8	50	4	2	
KR.80143	2	2	10	50	4	2	
KR.80144	2	2	12	50	4	2	
KR.80145	2	2	16	50	4	2	
KR.80146	2	2	20	50	4	2	
KR.80150	2,5	2,5	6	50	4	2	
KR.80151	2,5	2,5	8	50	4	2	
KR.80152	2,5	2,5	10	50	4	2	
KR.80153	2,5	2,5	12	50	4	2	
KR.80154	2,5	2,5	20	50	4	2	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	●	●	●	○	○	○	○	●

MİKRO KÖŞE RADYÜS KARBÜR PARMAK FREZE

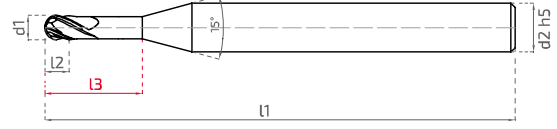


KOD	d1 (mm)	L2 (mm)	L3 (mm)	L1 (mm)	d2 h5	R	z	FİYAT EUR
KR.80310	0,5	0,5	2	50	4	0,05	2	
KR.80311	0,5	0,5	3	50	4	0,05	2	
KR.80312	0,5	0,5	4	50	4	0,02	2	
KR.80320	1	1	6	50	4	0,10	2	
KR.80321	1	1	8	50	4	0,10	2	
KR.80322	1	1	10	50	4	0,10	2	
KR.80323	1	1	12	50	4	0,10	2	
KR.80324	1	1	16	50	4	0,10	2	
KR.80325	1	1	20	50	4	0,10	2	
KR.80330	1,5	1,5	6	50	4	0,10	2	
KR.80331	1,5	1,5	8	50	4	0,10	2	
KR.80332	1,5	1,5	10	50	4	0,10	2	
KR.80333	1,5	1,5	12	50	4	0,10	2	
KR.80334	1,5	1,5	16	60	4	0,10	2	
KR.80335	1,5	1,5	20	60	4	0,10	2	
KR.80430	2	2	6	50	4	0,20	2	
KR.80431	2	2	8	50	4	0,20	2	
KR.80432	2	2	10	50	4	0,20	2	
KR.80433	2	2	12	50	4	0,20	2	
KR.80434	2	2	16	50	4	0,20	2	
KR.80435	2	2	20	50	4	0,20	2	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	●	●	●	○	○	○	○	●

MİKRO KÜRESEL KARBÜR PARMAK FREZE



KOD	d1 (mm)	L2 (mm)	L3 (mm)	L1 (mm)	d2 h5	Z	FİYAT EUR
KR.80210	0,5	0,5	2	50	4	2	
KR.80211	0,5	0,5	3	50	4	2	
KR.80212	0,5	0,5	4	50	4	2	
KR.80213	0,5	0,5	6	50	4	2	
KR.80220	1	1	6	50	4	2	
KR.80221	1	1	8	50	4	2	
KR.80222	1	1	10	50	4	2	
KR.80223	1	1	12	50	4	2	
KR.80224	1	1	16	50	4	2	
KR.80225	1	1	20	50	4	2	
KR.80230	1,5	1,5	6	50	4	2	
KR.80231	1,5	1,5	8	50	4	2	
KR.80232	1,5	1,5	10	50	4	2	
KR.80233	1,5	1,5	12	50	4	2	
KR.80234	1,5	1,5	16	50	4	2	
KR.80235	1,5	1,5	20	50	4	2	
KR.80240	2	2	6	50	4	2	
KR.80241	2	2	8	50	4	2	
KR.80242	2	2	10	50	4	2	
KR.80243	2	2	12	50	4	2	
KR.80244	2	2	16	50	4	2	
KR.80245	2	2	20	50	4	2	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	●	●	●	○	○	○	○	●

KARBÜR KÖŞE YUVARLAMA FREZESİ

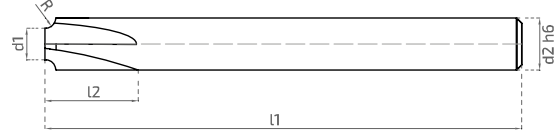
55
HRC

TiALN

FORM
HA DIN
6535

Z3

Z4



KOD	d1	L2 (mm)	L1 (mm)	d2 h6	R (±0,02)	Z	FİYAT EUR
KR.3600.050	4,5	7	58	6	0,5	3	
KR.3600.075	4,5	7	58	6	0,75	3	
KR.3600.100	6	10	64	8	1	4	
KR.3600.150	5	10	64	8	1,5	4	
KR.3600.200	5,5	12	73	10	2	4	
KR.3600.250	3,5	12	73	10	2,5	4	
KR.3600.300	3,5	14	82	12	3	4	
KR.3600.400	5,5	16	82	14	4	4	
KR.3600.500	6	20	93	16	5	4	
KR.3600.600	8	20	105	20	6	4	

KARBÜR PAH KIRMA FREZESİ

55
HRC

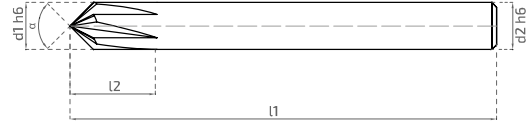
TiALN

FORM
HA DIN
6535 α
90°

Z4

Z5

Z6



KOD	d1 h6	L2 (mm)	L1 (mm)	d2 h6	α (°)	Z	FİYAT EUR
KR.3500.090040	4	9	51	6	90	4	
KR.3500.090060	6	15	58	6	90	4	
KR.3500.090080	8	15	64	8	90	5	
KR.3500.090100	10	21	73	10	90	6	
KR.3500.090120	12	25	82	12	90	6	

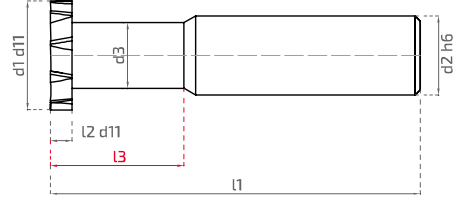
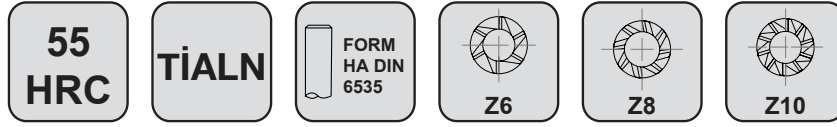
● Önerilir

◐ Kabul Edilebilir

○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	◐	◐	◐	●	○	○	◐	◐

KARBÜR T-YARIK FREZESİ

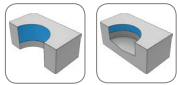
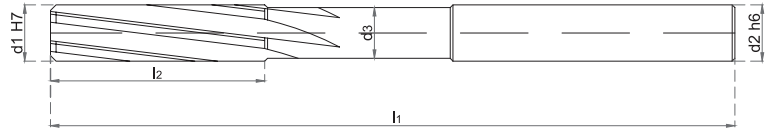
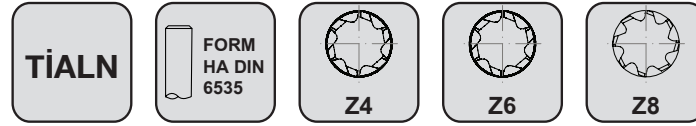


KOD	d1 d11	L2 d11	L3 (mm)	d3 (mm)	L1(mm)	d2 h6	Z	FİYAT EUR
KR.3200.045010	4,5	1	15	3	50	6	6	
KR.3200.075015	7,5	1,5	15	4	50	6	6	
KR.3200.075020	7,5	2	15	4	50	6	6	
KR.3200.105020	10,5	2	15	5	50	6	6	
KR.3200.105025	10,5	2,5	15	5	50	6	6	
KR.3200.105030	10,5	3	15	5	50	6	6	
KR.3200.135030	13,5	3	20	8	56	10	8	
KR.3200.135040	13,5	4	20	8	56	10	8	
KR.3200.165030	16,5	3	20	10	56	12	8	
KR.3200.165040	16,5	4	20	10	56	12	8	
KR.3200.165050	16,5	5	20	10	56	12	8	
KR.3200.195030	19,5	3	20	12	56	14	10	
KR.3200.195040	19,5	4	20	12	56	14	10	
KR.3200.195050	19,5	5	20	12	56	14	10	
KR.3200.225040	22,5	4	20	12	63	14	10	
KR.3200.225050	22,5	5	20	12	63	14	10	
KR.3200.225060	22,5	6	20	12	63	14	10	
KR.3200.255050	25,5	5	20	14	63	16	10	
KR.3200.255060	25,5	6	20	14	63	16	10	
KR.3200.255070	25,5	7	20	14	63	16	10	
KR.3200.255080	25,5	8	20	14	63	16	10	
KR.3200.285050	28,5	5	20	16	63	18	10	
KR.3200.285060	28,5	6	20	16	63	18	10	
KR.3200.285070	28,5	7	20	16	63	18	10	
KR.3200.285080	28,5	8	20	16	63	18	10	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	○

KARBÜR RAYBALAR

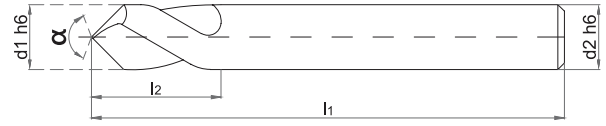


KOD	d1 h7	d2 h6	d3 (mm)	l1 (mm)	l2 (mm)	Z	FİYAT EUR
KR.30.1025	2	2	1,5	58	12	4	
KR.30.1050	2,5	3	2	58	12	4	
KR.30.1181	3	4	2,5	58	12	4	
KR.30.1378	3,5	6	3	63	15	4	
KR.30.1575	4	6	3,5	63	18	6	
KR.30.1772	4,5	6	3,5	70	20	6	
KR.30.1969	5	6	4	75	22	6	
KR.30.2125	5,5	6	4,5	75	22	6	
KR.30.2362	6	6	5	93	26	6	
KR.30.2559	6,5	6	5,5	93	26	6	
KR.30.2756	7	8	6	93	26	6	
KR.30.3150	8	8	7	93	28	6	
KR.30.3543	9	10	8	100	35	6	
KR.30.3937	10	10	9	100	35	6	
KR.30.4331	11	12	10	100	35	6	
KR.30.4724	12	12	11	110	35	6	
KR.30.5264	14	14	13	110	35	6	
KR.30.6299	16	16	15	110	35	8	

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

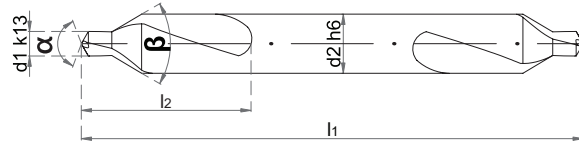
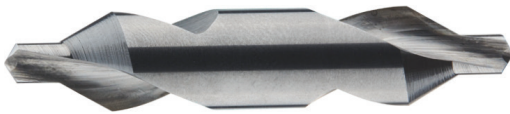
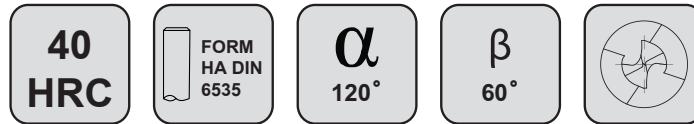
Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	●

KARBÜR NC PUNTA MATKABI



KOD	d1 h7	d2 h6	L1 (mm)	L2 (mm)	α	FİYAT EUR
KR.89250	3	3	32	8	90°	
KR.89251	4	4	40	10	90°	
KR.89252	6	6	51	13	90°	
KR.89253	10	10	70	20	90°	
KR.89254	12	12	70	24	90°	
KR.89255	3	3	32	8	120°	
KR.89256	4	4	40	10	120°	
KR.89257	6	6	51	13	120°	
KR.89258	10	12	70	20	120°	
KR.89259	12	12	70	24	120°	

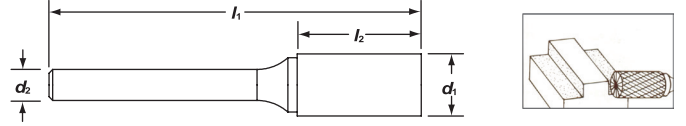
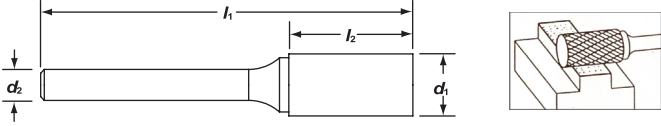
KARBÜR PUNTA MATKABI



KOD	d1 k13	d2 h6	L1 (mm)	L2 (mm)	FİYAT EUR
KR.89203	2	5	40	2,9	
KR.89206	2,5	6	45	3,6	
KR.89209	3,15	8	50	4,4	
KR.89212	4	10	75	5,6	
KR.89215	5	12	82	6,9	
KR.89218	6,3	16	93	8,6	

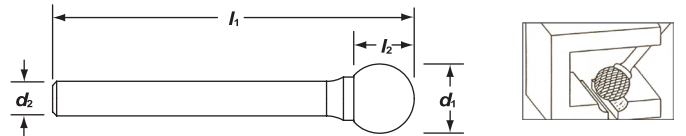
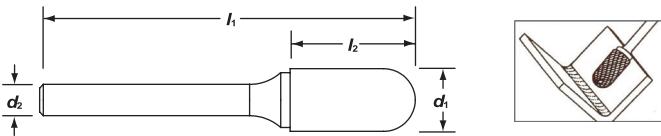
● Önerilir ○ Kabul Edilebilir ○ Önerilmez

Çelik	Paslanmaz Çelik	Sertleştirilmiş Çelik ≤54 HRC	Sertleştirilmiş Çelik >54 HRC	Döküm	Grafit	Demir Dışı Metaller	HRSA	Titanyum
●	○	○	○	●	○	○	○	●



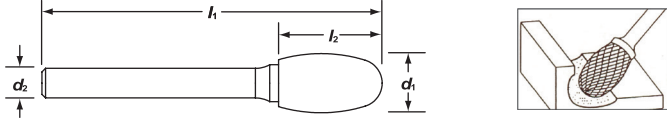
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SA.43M.DC	3	13	3	38	
KR.SA.44M.DC	3	13	6	38	
KR.SA.46M.DC	4	13	6	38	
KR.SA.51M.DC	6	13	3	56	
KR.SA.1M.DC	6	16	6	56	
KR.SA.2M.DC	8	20	6	60	
KR.SA.3M.DC	10	20	6	60	
KR.SA.5M.DC	12	25	6	65	
KR.SA.6M.DC	16	25	6	65	
KR.SA.7M.DC	19	25	6	65	

KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SB.41M.DC	2	10	6	38	
KR.SB.43M.DC	3	13	3	38	
KR.SB.44M.DC	3	13	6	38	
KR.SB.45M.DC	4	13	3	38	
KR.SB.46M.DC	4	13	6	38	
KR.SB.51M.DC	6	13	3	56	
KR.SB.1M.DC	6	16	6	56	
KR.SB.2M.DC	8	20	6	60	
KR.SB.3M.DC	10	20	6	60	
KR.SB.5M.DC	12	25	6	65	
KR.SB.6M.DC	16	25	6	65	
KR.SB.7M.DC	19	25	6	65	
KR.SB.9M.DC	25	25	6	65	

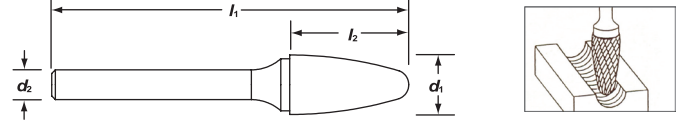


KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SC.43M.DC	3	13	3	38	
KR.SC.45M.DC	4	13	3	38	
KR.SC.46M.DC	4	13	6	38	
KR.SC.51M.DC	6	13	3	56	
KR.SC.1M.DC	6	16	6	56	
KR.SC.2M.DC	8	20	6	60	
KR.SC.3M.DC	10	20	6	60	
KR.SC.4M.DC	11	25	6	65	
KR.SC.5M.DC	12	25	6	65	
KR.SC.6M.DC	16	25	6	65	
KR.SC.7M.DC	19	25	6	65	
KR.SC.9M.DC	25	25	6	65	

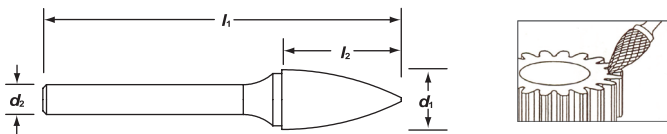
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SD.43M.DC	3	2	3	38	
KR.SD.44M.DC	3	2	6	38	
KR.SD.45M.DC	4	3	3	38	
KR.SD.46M.DC	4	3	6	38	
KR.SD.51M.DC	6	5	3	38	
KR.SD.1M.DC	6	5	6	45	
KR.SD.2M.DC	8	7	6	47	
KR.SD.3M.DC	10	9	6	49	
KR.SD.5M.DC	12	10	6	51	
KR.SD.6M.DC	16	14	6	54	
KR.SD.7M.DC	19	14	6	54	
KR.SD.9M.DC	25	21	6	54	



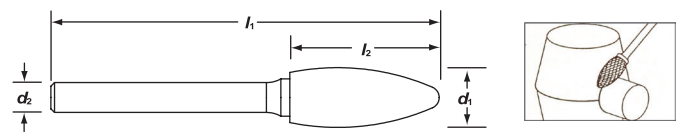
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SE.43M.DC	3	7	3	38	
KR.SE.44M.DC	3	7	6	38	
KR.SE.51M.DC	6	10	3	38	
KR.SE.1M.DC	6	10	6	50	
KR.SE.2M.DC	8	13	6	53	
KR.SE.3M.DC	10	16	6	56	
KR.SE.5M.DC	12	20	6	60	
KR.SE.6M.DC	16	25	6	65	
KR.SE.7M.DC	19	25	6	65	



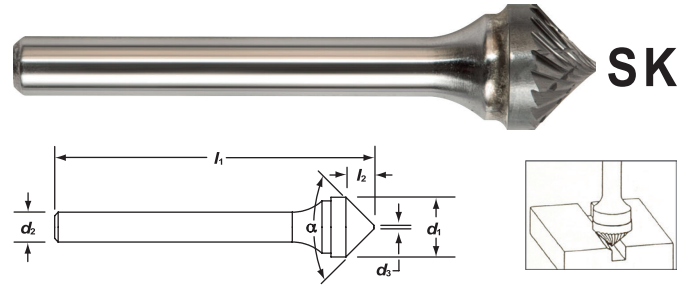
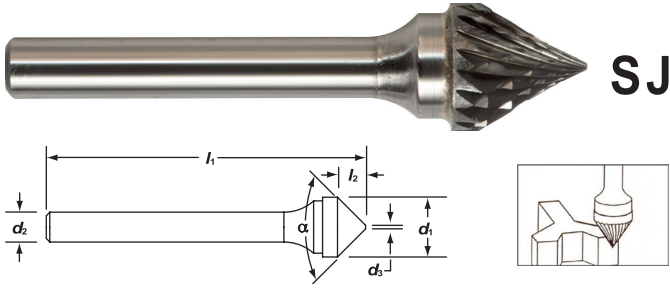
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SF.43M.DC	3	13	3	38	
KR.SF.51M.DC	6	13	3	41	
KR.SF.1M.DC	6	18	6	58	
KR.SF.2M.DC	8	20	6	65	
KR.SF.3M.DC	10	20	6	65	
KR.SF.4M.DC	11	25	6	65	
KR.SF.5M.DC	12	25	6	65	
KR.SF.5M.FM	12	25	6	65	
KR.SF.5ML6.DC	12	25	6	175	
KR.SF.6M.DC	16	25	6	70	
KR.SF.7M.DC	19	25	6	70	



KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SG.43M.DC	3	13	3	38	
KR.SG.51M.DC	6	13	3	41	
KR.SG.1M.DC	6	18	6	58	
KR.SG.2M.DC	8	20	6	65	
KR.SG.3M.DC	10	20	6	65	
KR.SG.5M.DC	12	25	6	65	
KR.SG.6M.DC	16	25	6	70	
KR.SG.7M.DC	19	25	6	70	

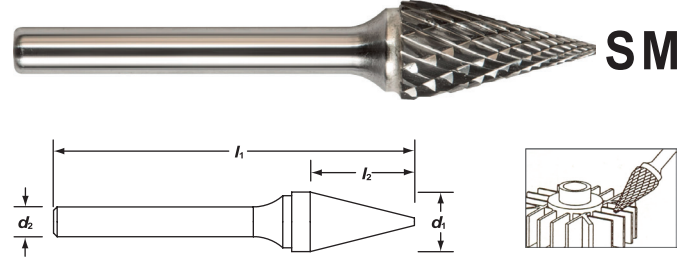
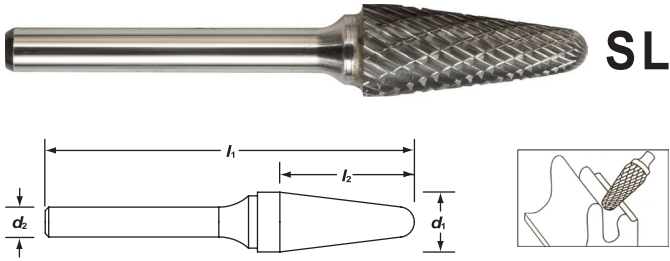


KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SH.43M.DC	3	7	3	38	
KR.SH.1M.DC	6	18	6	58	
KR.SH.2M.DC	8	20	6	60	
KR.SH.3M.DC	10	25	6	65	
KR.SH.5M.DC	12	32	6	72	
KR.SH.6M.DC	16	36	6	72	
KR.SH.7M.DC	19	36	6	76	



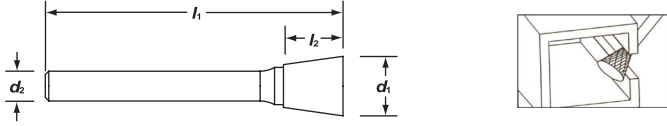
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SJ.43M.DC	3	2	3	42	
KR.SJ.44M.DC	3	2	6	42	
KR.SJ.1M.DC	6	5	6	48	
KR.SJ.2M.DC	8	7	6	48	
KR.SJ.3M.DC	10	8	6	52	
KR.SJ.5M.DC	12	10	6	54	
KR.SJ.6M.DC	16	13	6	56	

KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SK.43M.DC	3	13	3	42	
KR.SK.1M.DC	6	3	6	45	
KR.SK.2M.DC	8	4	6	47	
KR.SK.3M.DC	10	5	6	48	
KR.SK.5M.DC	12	6	6	48	
KR.SK.6M.DC	16	8	6	50	
KR.SK.7M.DC	19	8	6	50	
KR.SK.9M.DC	25	12	6	50	



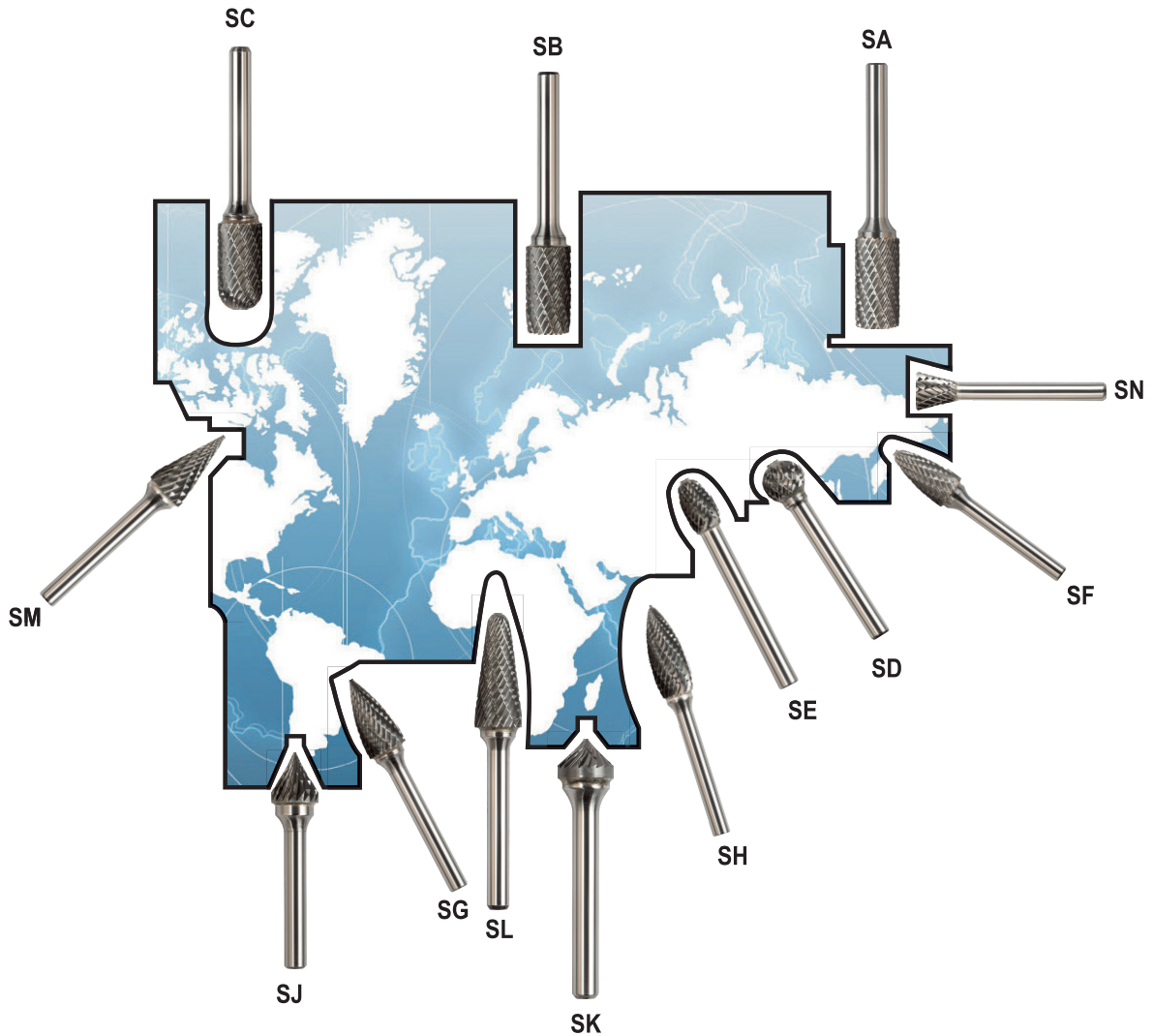
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SL.41M.DC	2	13	6	38	
KR.SL.43M.DC	3	13	3	38	
KR.SL.44M.DC	3	13	6	38	
KR.SL.46M.DC	4	13	6	38	
KR.SL.51M.DC	6	13	3	41	
KR.SL.1M.DC	6	16	6	56	
KR.SL.2M.DC	8	22	6	56	
KR.SL.3M.DC	10	25	6	65	
KR.SL.5M.DC	12	28	6	68	
KR.SL.6M.DC	16	33	6	73	
KR.SL.7M.DC	19	33	6	73	

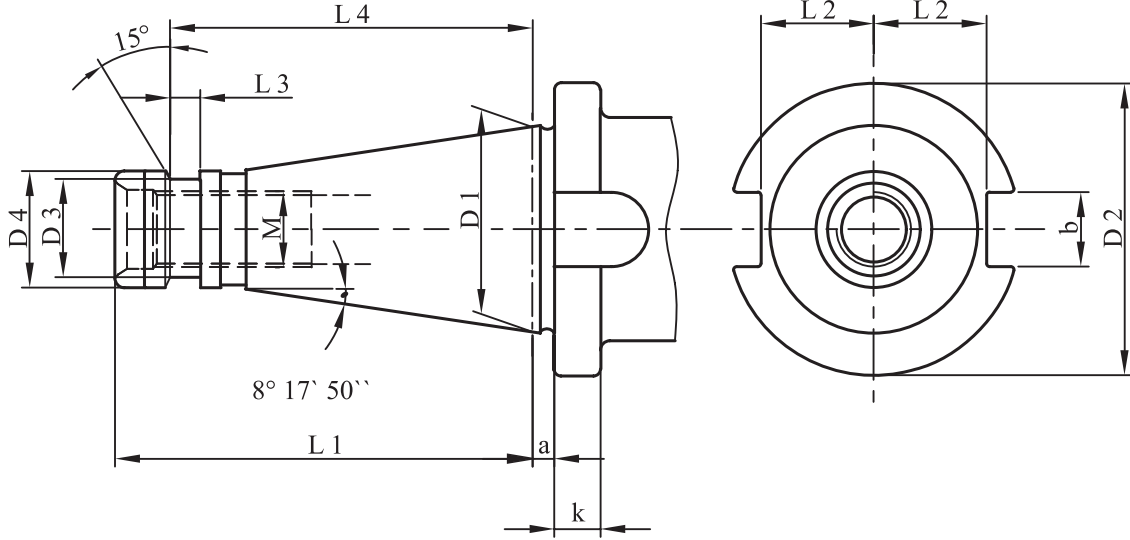
KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SM.43M.DC	3	11	3	38	
KR.SM.44M.DC	3	11	6	38	
KR.SM.51M.DC	6	18	3	46	
KR.SM.1M.DC	6	18	6	58	
KR.SM.2M.DC	8	20	6	60	
KR.SM.3M.DC	10	20	6	60	
KR.SM.5M.DC	12	25	6	65	
KR.SM.6M.DC	16	25	6	65	
KR.SM.7M.DC	19	25	6	65	



KOD	d ₁	l ₂	d ₂	l ₁	FİYAT EUR
KR.SN.43M.DC	3	7	3	38	
KR.SN.44M.DC	3	7	6	38	
KR.SN.1M.DC	6	7	6	47	
KR.SN.2M.DC	8	7	6	50	
KR.SN.3M.DC	10	10	6	55	
KR.SN.4M.DC	12	13	6	53	
KR.SN.6M.DC	16	13	6	58	

KOD	FİYAT EUR
KR.SET	





ISO	D1	D2 0-0,4	D3	D4	M	a ±0,2	b H12	K ±0,15	L1	L2 max.	L3	L4
30	31,75	50	16,5	17,1	M12	1,6	16,1	8	68,4	16,2	-	-
40	44,45	63	21,1	25	M16	1,6	16,1	10	93,4	22,5	7	82
50	69,85	97,5	38	39,2	M24	3,2	25,7	12	126,8	35,3	-	-

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
- AÇI HASSASİYETİ : DIN 2080-1 / AT3

ISO PENS TAKIMLARI

DIN 2080

OZ TİP

ISO 2583


DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER :

- ISO / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
ISO30.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
ISO40.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
ISO40.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	
ISO50.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
ISO50.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	

ISO PENS TAKIMLARI

DIN 2080

ER TİP

ISO 2583


DIN 6499-B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER :

- ISO / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (16 ADET)

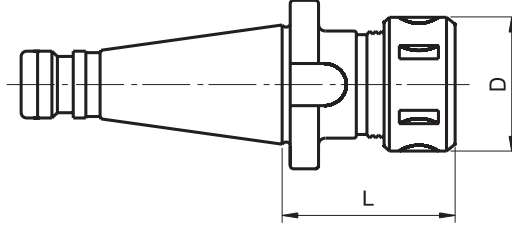
KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
ISO30.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
ISO40.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
ISO40.ER40.T	4-26	4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25	
ISO50.ER40.T	4-26	4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25	

ISO PENS BAŞLIKLARI

DIN 2080

OZ TİP

ISO 2583


DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

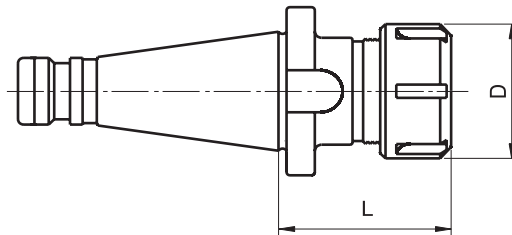
KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
ISO30.462E	ISO 30	3-25	75	60	
ISO30.462E.100	ISO 30	3-25	100	60	
ISO40.462E	ISO 40	3-25	65	60	
ISO40.462E.100	ISO 40	3-25	100	60	
ISO40.462E.125	ISO 40	3-25	125	60	
ISO40.462E.150	ISO 40	3-25	150	60	
ISO40.467E	ISO 40	3-32	95	72	
ISO50.462E	ISO 50	3-25	70	60	
ISO50.467E	ISO 50	3-32	70	72	

ISO PENS BAŞLIKLARI

DIN 2080

ER TİP

ISO 2583


DIN 6499
ISO 15488

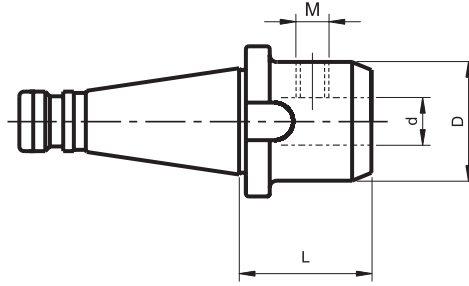
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
ISO30.ER32	ISO 30	2-20	50	50	
ISO40.ER32	ISO 40	2-20	50	50	
ISO40.ER32.100	ISO 40	2-20	100	50	
ISO40.ER40	ISO 40	2-26	60	63	
ISO40.ER40.100	ISO 40	2-26	100	63	
ISO50.ER40	ISO 50	2-26	60	63	
ISO50.ER40.100	ISO 50	2-26	100	63	

ISO VELDON TUTUCULAR

DIN 2080

ISO 2583


DIN 6359
DIN 1835-B

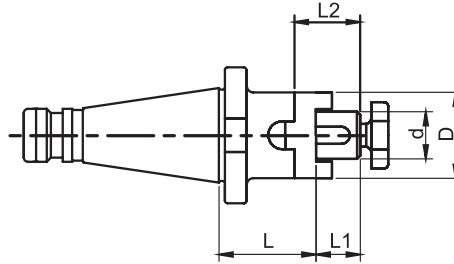
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	L (mm)	D (mm)	VELDON CİVATASI	CİVATA ADEĐİ	FİYAT EUR
ISO40.06.V	ISO 40	6	50	25	M6x10	1	
ISO40.08.V	ISO 40	8	50	28	M8x10	1	
ISO40.10.V	ISO 40	10	50	35	M10x12	1	
ISO40.12.V	ISO 40	12	50	42	M12x16	1	
ISO40.14.V	ISO 40	14	50	44	M12x16	1	
ISO40.16.V	ISO 40	16	63	48	M14x16	1	
ISO40.18.V	ISO 40	18	63	50	M14x16	1	
ISO40.20.V	ISO 40	20	63	52	M16x16	1	
ISO40.25.V	ISO 40	25	80	64	M18x20	2	
ISO40.32.V	ISO 40	32	80	72	M20x20	2	
ISO40.40.V	ISO 40	40	90	80	M20x20	2	
ISO50.20.V	ISO 50	20	63	52	M16x16	1	
ISO50.25.V	ISO 50	25	80	64	M18x20	2	
ISO50.32.V	ISO 50	32	80	72	M20x20	2	
ISO50.40.V	ISO 50	40	90	80	M20x20	2	

ISO KOMBİNE MALAFALAR

DIN 2080

ISO 2583



DIN 6358

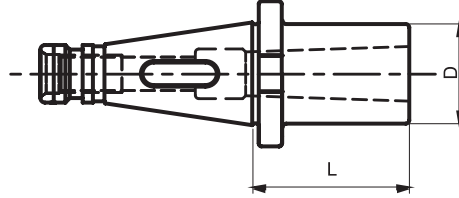
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
IS030.16.K	ISO 30	16	32	35	17	27	
IS030.22.K	ISO 30	22	40	35	19	31	
IS030.27.K	ISO 30	27	48	35	21	33	
IS040.16.K	ISO 40	16	32	52	17	27	
IS040.22.K	ISO 40	22	40	52	19	31	
IS040.27.K	ISO 40	27	48	52	21	33	
IS040.32.K	ISO 40	32	58	52	24	38	
IS040.40.K	ISO 40	40	70	52	27	41	
IS050.16.K	ISO 50	16	32	55	17	27	
IS050.22.K	ISO 50	22	40	55	19	31	
IS050.27.K	ISO 50	27	48	55	21	33	
IS050.32.K	ISO 50	32	58	55	24	38	
IS050.40.K	ISO 50	40	70	55	27	41	
IS050.50.K	ISO 50	50	85	55	30	46	
IS050.60.K	ISO 50	60	97	55	50	66	

ISO KAMALI MORS ADAPTÖRÜ

DIN 2080

ISO 2583



DIN 6383

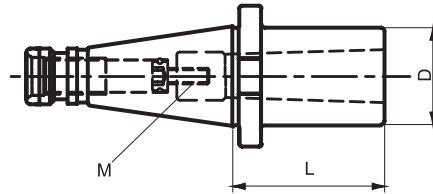
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	İÇ KONİK	D (mm)	L (mm)	FİYAT EUR
ISO40.K.MK1	ISO 40	MK1	25	50	
ISO40.K.MK2	ISO 40	MK2	32	50	
ISO40.K.MK3	ISO 40	MK3	40	65	
ISO40.K.MK4	ISO 40	MK4	48	95	
ISO50.K.MK3	ISO 50	MK3	40	65	
ISO50.K.MK4	ISO 50	MK4	48	70	
ISO50.K.MK5	ISO 50	MK5	63	105	

ISO ÇEKTİRME CİVATALI MORS ADAPTÖRÜ

DIN 2080

ISO 2583



DIN 6364

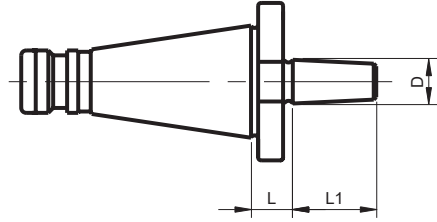
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	İÇ KONİK	D (mm)	L (mm)	M (mm)	FİYAT EUR
ISO40.C.MK1	ISO 40	MK1	25	50	M6	
ISO40.C.MK2	ISO 40	MK2	32	50	M10	
ISO40.C.MK3	ISO 40	MK3	40	65	M12	
ISO40.C.MK4	ISO 40	MK4	63	95	M16	

ISO MANDREN MALAFALARI

DIN 2080

ISO 2583



DIN 238

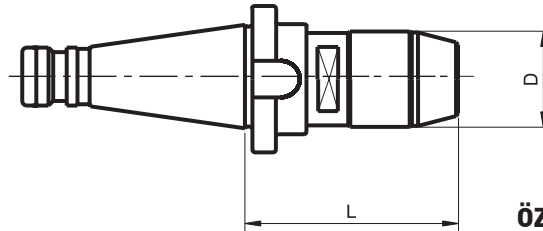
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	MANDREN KONİĞİ	D (mm)	L (mm)	L1 (mm)	FİYAT EUR
ISO40.B16	ISO 40	B16	15,733	17	24	
ISO40.B18	ISO 40	B18	17,780	17	32	

ISO MANDRENLİ BAŞLIKLAR

DIN 2080

ISO 2583



ÖZELLİKLER

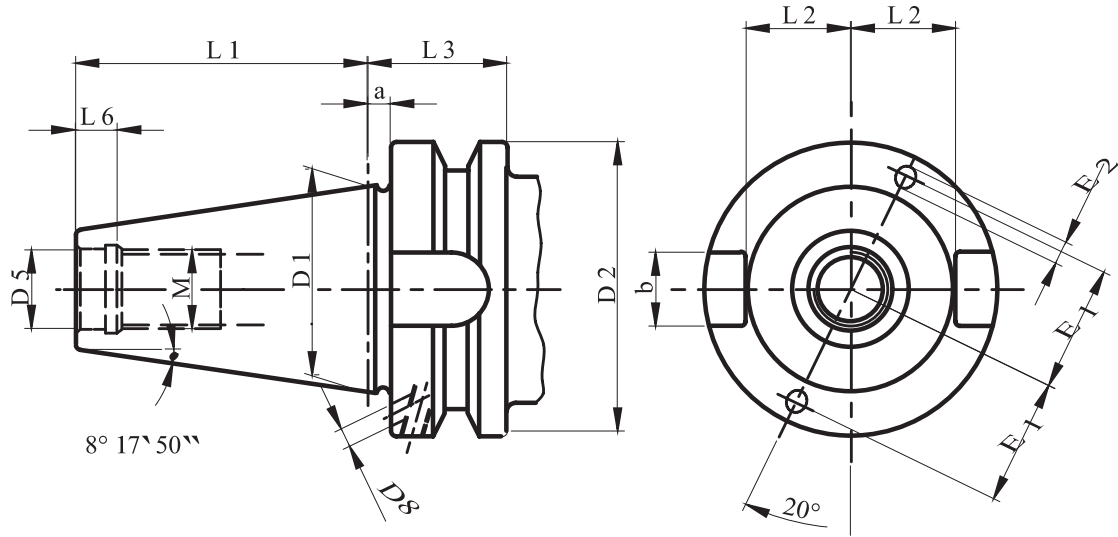
- ELLE VE ANAHTARLARLA SIKILIP ÇÖZÜLEBİLİR.
- SALGI : MAX. 0,06 mm

KOD	KONİK	SIKMA KAPASİTESİ (mm)	D (mm)	L (mm)	FİYAT EUR
ISO40.1.13	ISO 40	1-13	42	80	
ISO40.1.16	ISO 40	1-16	49	100	

BT ŞAFT ÖLÇÜLERİ

MAS 403-BT/JIS B 6339 FORM AD

ISO 7388-2



BT	D1	D2 h8	D5 H8	D8 Max.	E1	E2 Max.	M 6H	a ±0,4	b +0,20	L1 ±0,2	L2 0-0,3	L3 Min.	L6 Max.
30	31,75	46	12,5	2	20	2,5	M12	2	16,1	48,4	16,3	22	7,5
40	44,45	63	17	4	27	5	M16	2	16,1	65,4	22,6	27	9,5
50	69,85	100	25	6	42	7,4	M24	3	25,7	101,8	35,3	38	13,5

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
DIN 2080-1 / AT3
- SU DELİKLERİ : AD / B

BT PENS TAKIMLARI

MAS 403-BT/JIS B 6339

OZ TİP



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER :

- BT / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)
- BT ÇEKTİRME CİVATASI (1 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
BT40.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
BT40.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	
BT50.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	

BT PENS TAKIMLARI

MAS 403-BT/JIS B 6339

ER TİP



DIN 6499-B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER :

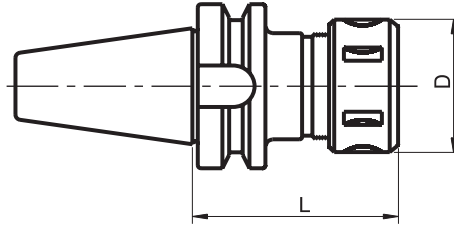
- BT / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (16 ADET)
(ER25 TİPLERDE 12 ADETTİR.)
- BT ÇEKTİRME CİVATASI (1 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
BT30.ER25.T	2-16	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15	
BT30.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
BT40.ER25.T	2-16	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15	
BT40.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
BT40.ER40.T	4-26	4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25	
BT50.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
BT50.ER40.T	4-26	4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25	

BT PENS BAŞLIKLARI

MAS 403 - BT/JIS B 6339

ER TİP


DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

MK* MİNİ KAPAK İLE TESLİM EDİLİR.

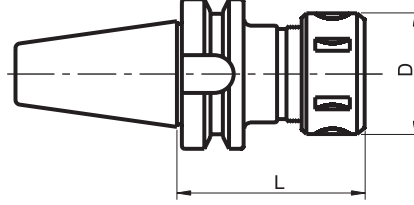
KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
BT30.ER11.100	BT30	1-7	100	19	
BT30.ER16	BT30	1-10	60	28 (32)	
BT30.ER16.100	BT30	1-10	100	28 (32)	
BT30.ER25	BT30	1-16	60	42	
BT30.ER25.100	BT30	1-16	100	42	
BT30.ER32	BT30	2-20	60	50	
BT30.ER32.100	BT30	2-20	100	50	
BT30.ER32.OM*	BT30	2-20	60	50	
BT30.ER40	BT30	2-26	70	63	
BT30.ER40.100	BT30	2-26	100	63	
BT40.ER11.100	BT40	1-7	100	19	
BT40.ER11.160	BT40	1-7	160	19	
BT40.ER16	BT40	1-10	60	28 (32)	
BT40.ER16.100	BT40	1-10	100	28 (32)	
BT40.ER16.160	BT40	1-10	160	28 (32)	
BT40.ER16.MK*	BT40	1-10	60	22	
BT40.ER16.100.MK*	BT40	1-10	100	22	
BT40.ER16.160.MK*	BT40	1-10	160	22	
BT40.ER20	BT40	1-13	60	35	
BT40.ER20.100	BT40	1-13	100	35	
BT40.ER20.160	BT40	1-13	160	35	
BT40.ER25	BT40	1-16	60	42	
BT40.ER25.100	BT40	1-16	100	42	
BT40.ER25.160	BT40	1-16	160	42	
BT40.ER32	BT40	2-20	60	50	
BT40.ER32.100	BT40	2-20	100	50	
BT40.ER32.160	BT40	2-20	160	50	
BT40.ER40	BT40	2-26	80	63	
BT40.ER40.100	BT40	2-26	100	63	
BT40.ER40.160	BT40	2-26	160	63	
BT50.ER32	BT50	2-20	70	50	
BT50.ER32.100	BT50	2-20	100	50	
BT50.ER32.160	BT50	2-20	160	50	
BT50.ER40	BT50	2-26	80	63	
BT50.ER40.100	BT50	2-26	100	63	
BT50.ER40.160	BT50	2-26	160	63	

OM* AHŞAP İŞLEYEN MARANGOZ CNC TEZGAHLARI İÇİNDİR.

BT PENS BAŞLIKLARI

MAS 403-BT/JIS B 6339

ÖZ TİP

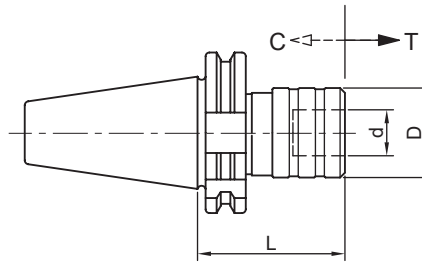
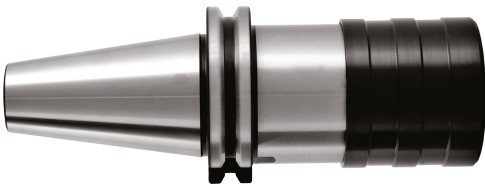

DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
BT40.462E	BT40	3-25	70	60	
BT40.462E.100	BT40	3-25	100	60	
BT40.467E	BT40	3-32	90	72	
BT50.462E	BT50	3-25	90	60	
BT50.467E	BT50	3-32	90	72	

BT KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

MAS 403-BT/JIS B 6339

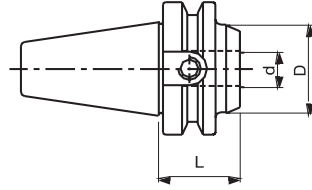


- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3

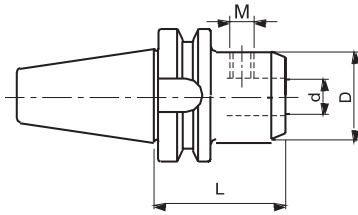
KOD	KONİK	KAPASİTE	d (mm)	D (mm)	L (mm)	C-T (mm)	FİYAT EUR
BT40.KCB.1	BT40	M3-M12	19	36,5	67	7,5-7,5	
BT40.KCB.2	BT40	M5-M24	31	54	94	12,5-12,5	
BT40.KCB.3	BT40	M14-M33	48	78	145	20-20	
BT50.KCB.1	BT50	M3-M12	19	36,5	77	7,5-7,5	
BT50.KCB.2	BT50	M5-M24	31	54	102	12,5-12,5	
BT50.KCB.3	BT50	M14-M33	48	78	145	20-20	

BT VELDON TUTUCULAR

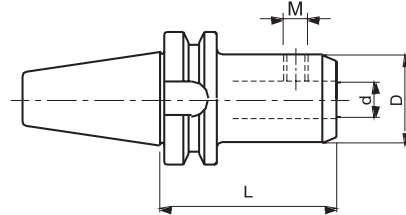
MAS 403-BT/JISB6339



TİP 1 (KISA BOY)



TİP 2 (NORMAL BOY)



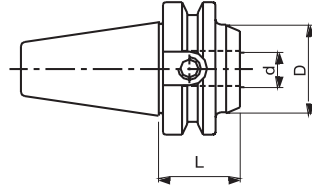
TİP 3 (UZUN BOY)

DIN 6359
DIN 1835-B
DIN 6535-HB

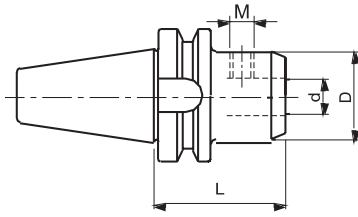
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	L (mm)	D (mm)	VELDON CİVATASI	CİVATA ADEDİ	TİP	FİYAT EUR
BT30.12.V	BT30	12	50	42	M12x16	1	2	
BT30.14.V	BT30	14	50	44	M12x16	1	2	
BT30.16.V	BT30	16	63	48	M14x16	1	2	
BT30.16.V.100	BT30	16	100	48	M14x16	1	3	
BT30.18.V	BT30	18	63	50	M14x16	1	2	
BT30.18.V.100	BT30	18	100	50	M14x16	1	3	
BT30.20.V	BT30	20	63	52	M16x16	1	2	
BT30.20.V.100	BT30	20	100	52	M16x16	1	3	
BT40.06.V	BT40	6	50	25	M6x10	1	2	
BT40.06.V.100	BT40	6	100	25	M6x10	1	3	
BT40.08.V	BT40	8	50	28	M8x10	1	2	
BT40.08.V.100	BT40	8	100	28	M8x10	1	3	
BT40.10.V	BT40	10	63	35	M10x12	1	2	
BT40.10.V.100	BT40	10	100	35	M10x12	1	3	
BT40.12.V	BT40	12	63	42	M12x16	1	2	
BT40.12.V.100	BT40	12	100	42	M12x16	1	3	
BT40.14.V	BT40	14	63	44	M12x16	1	2	
BT40.14.V.100	BT40	14	100	44	M12x16	1	3	
BT40.16.V.35	BT40	16	35	48	M14x16	1	1	
BT40.16.V	BT40	16	63	48	M14x16	1	2	
BT40.16.V.100	BT40	16	100	48	M14x16	1	3	
BT40.18.V	BT40	18	63	50	M14x16	1	2	
BT40.18.V.100	BT40	18	100	50	M14x16	1	3	

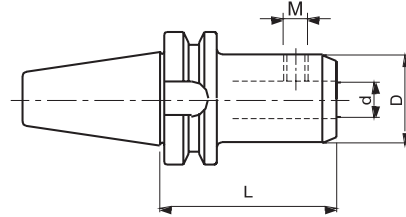




TİP 1 (KISA BOY)



TİP 2 (NORMAL BOY)



TİP 3 (UZUN BOY)

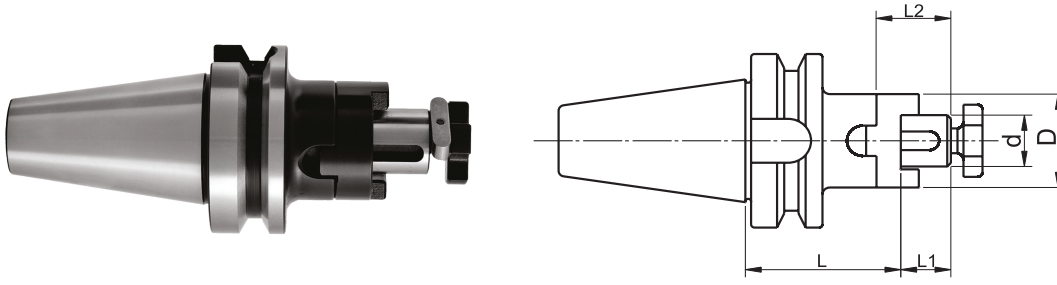
DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	L (mm)	D (mm)	VELDON CİVATASI	CİVATA ADEĐİ	TİP	FİYAT EUR
BT40.20.V.35	BT40	20	35	50	M14x12	1	1	
BT40.20.V	BT40	20	63	52	M16x16	1	2	
BT40.20.V.100	BT40	20	100	52	M16x16	1	3	
BT40.25.V.35	BT40	25	35	60	M14x12	1	1	
BT40.25.V	BT40	25	90	65	M18x20	2	2	
BT40.32.V	BT40	32	100	72	M20x20	2	2	
BT40.40.V	BT40	40	120	80	M20x20	2	2	
BT50.06.V	BT50	6	50	25	M6x10	1	2	
BT50.08.V	BT50	8	50	28	M8x10	1	2	
BT50.10.V	BT50	10	63	35	M10x12	1	2	
BT50.12.V	BT50	12	63	42	M12x16	1	2	
BT50.14.V	BT50	14	63	44	M12x16	1	2	
BT50.16.V	BT50	16	80	48	M14x16	1	2	
BT50.18.V	BT50	18	80	50	M14x16	1	2	
BT50.20.V	BT50	20	80	52	M16x16	1	2	
BT50.20.V.160	BT50	20	160	52	M16x16	1	3	
BT50.25.V	BT50	25	100	65	M18x20	2	2	
BT50.25.V.160	BT50	25	160	65	M18x20	2	3	
BT50.32.V	BT50	32	105	72	M20x20	2	2	
BT50.32.V.160	BT50	32	160	72	M20x20	2	3	
BT50.40.V	BT50	40	110	80	M20x20	2	2	
BT50.40.V.160	BT50	40	160	80	M20x20	2	3	

BT KOMBİNE MALAFALAR

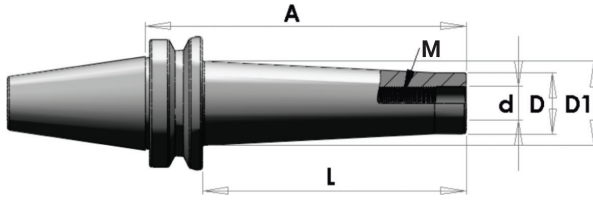
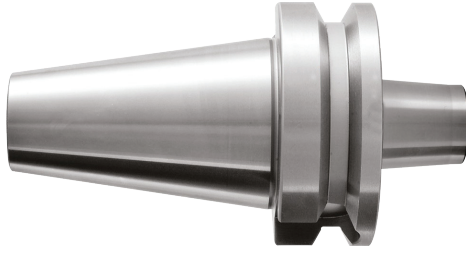
MAS 403-BT/JISB6339



DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
BT30.16.K	BT30	16	32	45	17	27	
BT30.22.K	BT30	22	40	47	19	31	
BT30.22.K.100	BT30	22	40	100	19	31	
BT30.27.K	BT30	27	48	49	21	33	
BT40.16.K	BT40	16	32	55	17	27	
BT40.16.K.100	BT40	16	32	100	17	27	
BT40.16.K.160	BT40	16	32	160	17	27	
BT40.22.K	BT40	22	40	55	19	31	
BT40.22.K.100	BT40	22	40	100	19	31	
BT40.22.K.160	BT40	22	40	160	19	31	
BT40.27.K	BT40	27	48	55	21	33	
BT40.27.K.100	BT40	27	48	100	21	33	
BT40.27.K.160	BT40	27	48	160	21	33	
BT40.32.K	BT40	32	58	60	24	38	
BT40.32.K.100	BT40	32	58	100	24	38	
BT40.32.K.160	BT40	32	58	160	24	38	
BT40.40.K	BT40	40	70	60	27	41	
BT40.40.K.100	BT40	40	70	100	27	41	
BT40.40.K.160	BT40	40	70	160	27	41	
BT50.16.K	BT50	16	32	70	17	27	
BT50.16.K.100	BT50	16	32	100	17	27	
BT50.16.K.160	BT50	16	32	160	17	27	
BT50.22.K	BT50	22	40	70	19	31	
BT50.22.K.100	BT50	22	40	100	19	31	
BT50.22.K.160	BT50	22	40	160	19	31	
BT50.27.K	BT50	27	48	70	21	33	
BT50.27.K.100	BT50	27	48	100	21	33	
BT50.27.K.160	BT50	27	48	160	21	33	
BT50.32.K	BT50	32	58	70	24	38	
BT50.32.K.100	BT50	32	58	100	24	38	
BT50.32.K.160	BT50	32	58	160	24	38	
BT50.40.K	BT50	40	70	70	27	41	
BT50.40.K.100	BT50	40	70	100	27	41	
BT50.40.K.160	BT50	40	70	160	27	41	
BT50.50.K	BT50	50	85	75	30	46	
BT50.60.K	BT50	60	98	75	50	66	



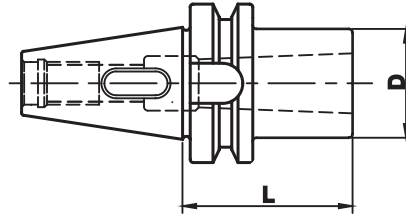
DIN 6339

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	M	D (mm)	D1 (mm)	d (mm)	A (mm)	L (mm)	FİYAT EUR
BT40.M06.050	BT40	M6	10	13	6,5	77	50	
BT40.M06.100	BT40	M6	10	19	6,5	127	100	
BT40.M08.050	BT40	M8	13	23	8,5	77	50	
BT40.M08.100	BT40	M8	13	25	8,5	127	100	
BT40.M10.050	BT40	M10	18	23	10,5	77	50	
BT40.M10.100	BT40	M10	18	32	10,5	127	100	
BT40.M12.050	BT40	M12	21	25	12,5	77	50	
BT40.M12.100	BT40	M12	21	32	12,5	127	100	
BT40.M16.075	BT40	M16	29	29	17	102	75	
BT40.M16.125	BT40	M16	29	34	17	152	125	
BT50.M06.050	BT50	M6	12	13	6,5	88	50	
BT50.M06.100	BT50	M6	12	19	6,5	138	100	
BT50.M08.050	BT50	M8	13	25	8,5	88	50	
BT50.M08.100	BT50	M8	13	30	8,5	138	100	
BT50.M10.050	BT50	M10	18	32	10,5	88	50	
BT50.M10.100	BT50	M10	18	36	10,5	138	100	
BT50.M12.050	BT50	M12	21	33	12,5	88	50	
BT50.M12.100	BT50	M12	21	40	12,5	138	100	
BT50.M16.075	BT50	M16	29	36	17	110	75	
BT50.M16.125	BT50	M16	29	42	17	145	125	

BT KAMALI MORS ADAPTÖRÜ

MAS 403-BT/JIS B 6339



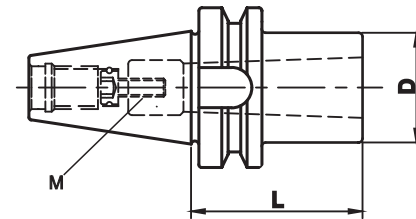
DIN 6383

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	İÇ KONİK	D (mm)	L (mm)	FİYAT EUR
BT40.K.MK1	BT40	MK1	25	50	
BT40.K.MK2	BT40	MK2	32	50	
BT40.K.MK3	BT40	MK3	40	70	
BT40.K.MK4	BT40	MK4	48	95	
BT50.K.MK3	BT50	MK3	40	65	
BT50.K.MK4	BT50	MK4	48	95	
BT50.K.MK5	BT50	MK5	63	105	

BT ÇEKTİRME CİVATALI MORS ADAPTÖRÜ

MAS 403-BT/JIS B 6339



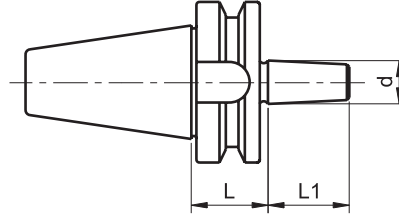
DIN 6364

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	İÇ KONİK	D (mm)	L (mm)	M (mm)	FİYAT EUR
BT40.C.MK1	BT40	MK1	25	50	M6	
BT40.C.MK2	BT40	MK2	32	50	M10	
BT40.C.MK3	BT40	MK3	40	70	M12	
BT40.C.MK4	BT40	MK4	63	95	M16	

BT MANDREN MALAFALARI

MAS 403-BT/JIS B 6339



DIN 238

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI DIN 7178-1/AT3 DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	MANDREN KONİĞİ	d (mm)	L (mm)	L1 (mm)	FİYAT EUR
BT40.B16	BT40	B16	15,733	32	24	
BT40.B18	BT40	B18	17,780	32	32	

BT MANDRENLİ BAŞLIKLAR

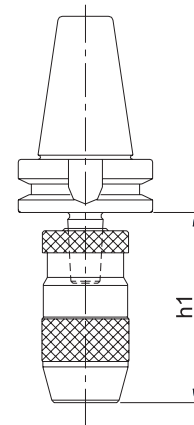
MAS 403-BT/JIS B 6339

ÖZELLİKLER

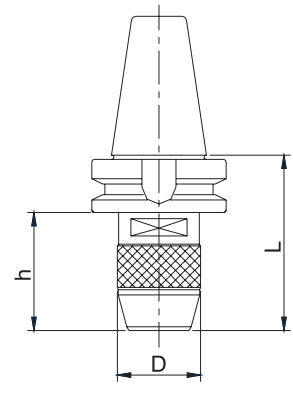
- ELLE VE ANAHTARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm



MANDREN MALAFASI İLE BAĞLAMA



MANDRENLİ BAŞLIK



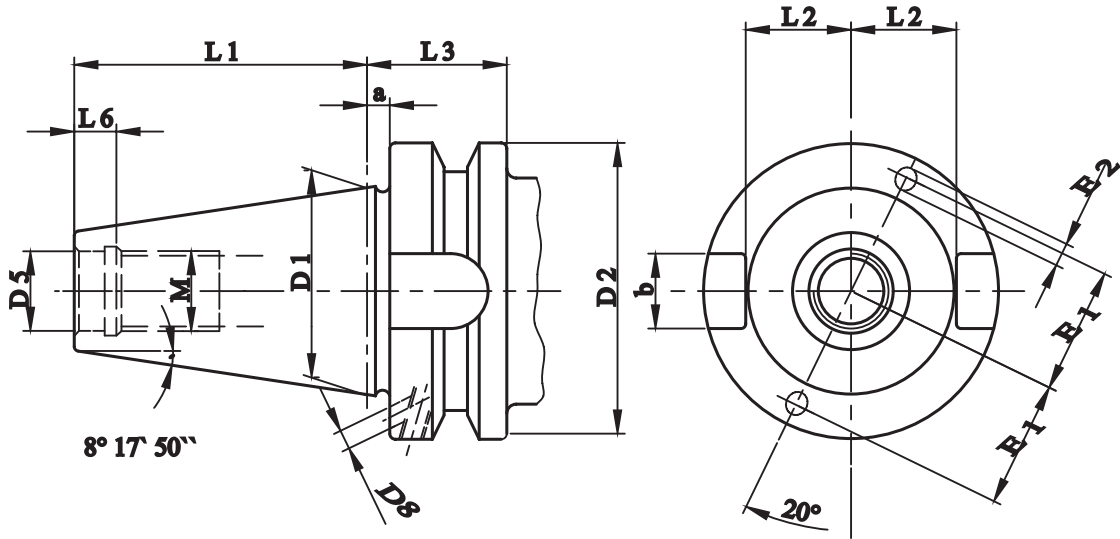
MANDRENLİ BAŞLIK İLE
DAHA KISA H MESAFESİ SAĞLANIR.

KOD	KONİK	KAPASİTE (mm)	D (mm)	L (mm)	h (mm)	FİYAT EUR
BT40.1.13	BT40	1-13	42	85	58	
BT40.1.16	BT40	1-16	49	100	73	

BBT ŞAFT ÖLÇÜLERİ

MAS 403-BBT/JIS B 6339 FORM AD

ISO 7388-2



BBT	D1	D2 h8	D5 H8	D8 Max.	E1	E2 Max.	M 6H	a ±0,4	b +0,20	L1 ±0,2	L2 0-0,3	L3 Min.	L6 Max.
40	44,45	63	17	4	27	5	M16	2	16,1	66,4	22,6	27	8,2

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
DIN 2080-1 / AT3
- SU DELİKLERİ : AD / B

BBT PENS TAKIMLARI

MAS 403-BBT/JIS B 6339

OZ TİP



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER :

- BT / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)
- BT ÇEKTİRME CİVATASI (1 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
BBT40.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
BBT40.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	

BBT PENS TAKIMLARI

MAS 403-BBT/JIS B 6339

ER TİP



DIN 6499-B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER :

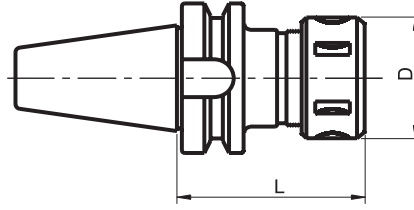
- BT / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (16 ADET)
- (ER25 TİPLERDE 12 ADETTİR.)
- BT ÇEKTİRME CİVATASI (1 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
BBT40.ER25.T	2-16	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15	
BBT40.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
BBT40.ER40.T	4-26	4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25	

BBT PENS BAŞLIKLARI

MAS 403-BBT/JIS B 6339

OZ TİP


DIN 6388
ISO 10897

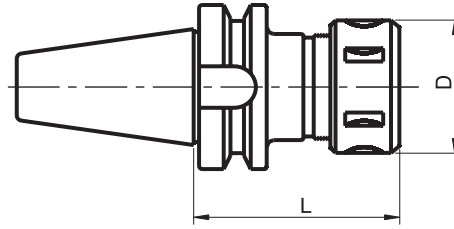
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
BBT40.462E	BBT40	3-25	70	60	
BBT40.462E.100	BBT40	3-25	100	60	
BBT40.467E	BBT40	3-32	90	72	

BBT PENS BAŞLIKLARI

MAS 403-BBT/JIS B 6339

ER TİP

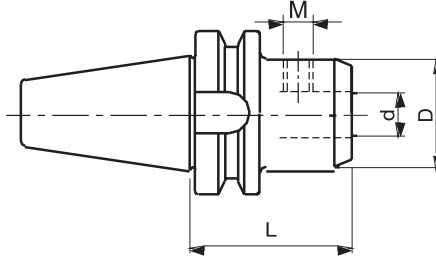

DIN 6499 -B
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE	D (mm)	L (mm)	FİYAT EUR
BBT40.ER11.100	BBT40	1-7	100	19	
BBT40.ER16	BBT40	1-10	60	28	
BBT40.ER16.100	BBT40	1-10	100	28	
BBT40.ER16.160	BBT40	1-10	160	28	
BBT40.ER20	BBT40	1-13	60	35	
BBT40.ER20.100	BBT40	1-13	100	35	
BBT40.ER20.160	BBT40	1-13	160	35	
BBT40.ER25	BBT40	1-16	60	42	
BBT40.ER25.100	BBT40	1-16	100	42	
BBT40.ER25.160	BBT40	1-16	160	42	
BBT40.ER32	BBT40	2-20	60	50	
BBT40.ER32.100	BBT40	2-20	100	50	
BBT40.ER32.160	BBT40	2-20	160	50	
BBT40.ER40	BBT40	2-26	80	63	
BBT40.ER40.100	BBT40	2-26	100	63	
BBT40.ER40.160	BBT40	2-26	160	63	

BBT VELDON TUTUCULAR

MAS 403-BBT/JISB6339



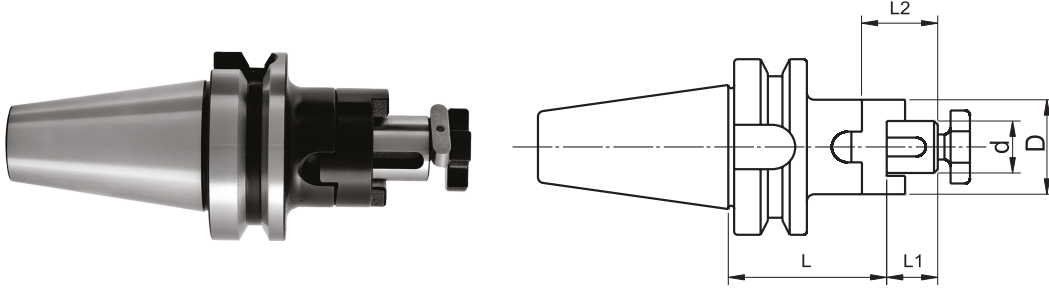
DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	L (mm)	D (mm)	VELDON CİVATASI	CİVATA ADEĐİ	FİYAT EUR
BBT40.06.V	BBT40	6	50	25	M6x10	1	
BBT40.06.V.100	BBT40	6	100	25	M6x10	1	
BBT40.08.V	BBT40	8	50	28	M8x10	1	
BBT40.08.V.100	BBT40	8	100	28	M8x10	1	
BBT40.10.V	BBT40	10	63	35	M10x12	1	
BBT40.10.V.100	BBT40	10	100	35	M10x12	1	
BBT40.12.V	BBT40	12	63	42	M12x16	1	
BBT40.12.V.100	BBT40	12	100	42	M12x16	1	
BBT40.14.V	BBT40	14	63	44	M12x16	1	
BBT40.14.V.100	BBT40	14	100	44	M12x16	1	
BBT40.16.V	BBT40	16	63	48	M14x16	1	
BBT40.16.V.100	BBT40	16	100	48	M14x16	1	
BBT40.18.V	BBT40	18	63	50	M14x16	1	
BBT40.18.V.100	BBT40	18	100	50	M14x16	1	
BBT40.20.V	BBT40	20	63	52	M16x16	1	
BBT40.20.V.100	BBT40	20	100	52	M16x16	1	
BBT40.25.V	BBT40	25	90	65	M18x20	2	
BBT40.32.V	BBT40	32	100	72	M18x20	2	
BBT40.40.V	BBT40	40	200	80	M18x20	2	

BBT KOMBİNE MALAFALAR

MAS 403-BBT/JIS B6339



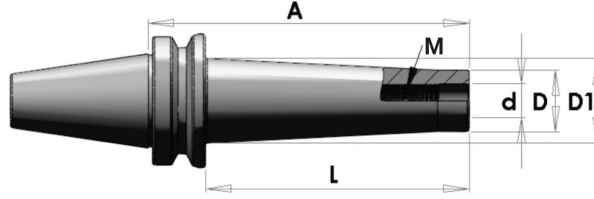
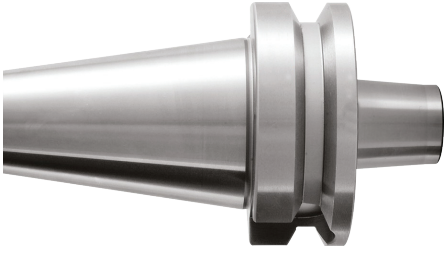
DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
BBT40.16.K	BBT40	16	32	55	17	27	
BBT40.16.K.100	BBT40	16	32	100	17	27	
BBT40.16.K.160	BBT40	16	32	160	17	27	
BBT40.22.K	BBT40	22	40	55	19	31	
BBT40.22.K.100	BBT40	22	40	100	19	31	
BBT40.22.K.160	BBT40	22	40	160	19	31	
BBT40.27.K	BBT40	27	48	55	21	33	
BBT40.27.K.100	BBT40	27	48	100	21	33	
BBT40.27.K.160	BBT40	27	48	160	21	33	
BBT40.32.K	BBT40	32	58	60	24	38	
BBT40.32.K.100	BBT40	32	58	100	24	38	
BBT40.32.K.160	BBT40	32	58	160	24	38	
BBT40.40.K	BBT40	40	70	60	27	41	
BBT40.40.K.100	BBT40	40	70	100	27	41	
BBT40.40.K.160	BBT40	40	70	160	27	41	

BBT VİDALI TAKIM TUTUCULAR

MAS 403-BBT/JISB6339



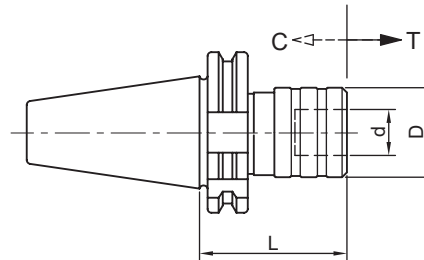
DIN 6339

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	M	D (mm)	D1 (mm)	d (mm)	A (mm)	L (mm)	FİYAT EUR
BBT40.M06.050	BBT40	M6	10	13	6,5	77	50	
BBT40.M06.100	BBT40	M6	10	19	6,5	127	100	
BBT40.M08.050	BBT40	M8	13	23	8,5	77	50	
BBT40.M08.100	BBT40	M8	13	25	8,5	127	100	
BBT40.M10.050	BBT40	M10	18	23	10,5	77	50	
BBT40.M10.100	BBT40	M10	18	32	10,5	127	100	
BBT40.M12.050	BBT40	M12	21	25	12,5	77	50	
BBT40.M12.100	BBT40	M12	21	32	12,5	127	100	
BBT40.M16.075	BBT40	M16	29	29	17	102	75	
BBT40.M16.125	BBT40	M16	29	34	17	152	125	

BBT KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

MAS 403-BBT/JIS B 6339

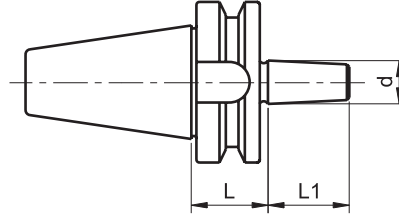


- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3

KOD	KONİK	KAPASİTE	d (mm)	D (mm)	L (mm)	C-T (mm)	FİYAT EUR
BBT40.KCB.1	BBT40	M3-M12	19	36,5	67	7,5-7,5	
BBT40.KCB.2	BBT40	M5-M24	31	54	94	12,5-12,5	
BBT40.KCB.3	BBT40	M14-M33	48	78	145	20-20	

BBT MANDREN MALAFALARI

MAS 403-BBT/JIS B 6339



DIN 238

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI DIN 7178-1/AT3 DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	MANDREN KONİĞİ	d (mm)	L (mm)	L1 (mm)	FİYAT EUR
BBT40.B16	BBT40	B16	15,733	32	24	
BBT40.B18	BBT40	B18	17,780	32	32	

BBT MANDRENLİ BAŞLIKLAR

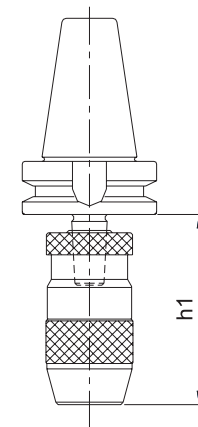
MAS 403-BBT/JIS B 6339

ÖZELLİKLER

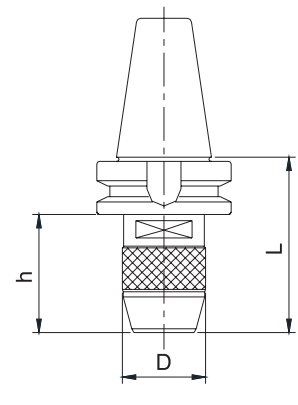
- ELLE VE ANAHTARLARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm



MANDREN MALAFASI İLE BAĞLAMA

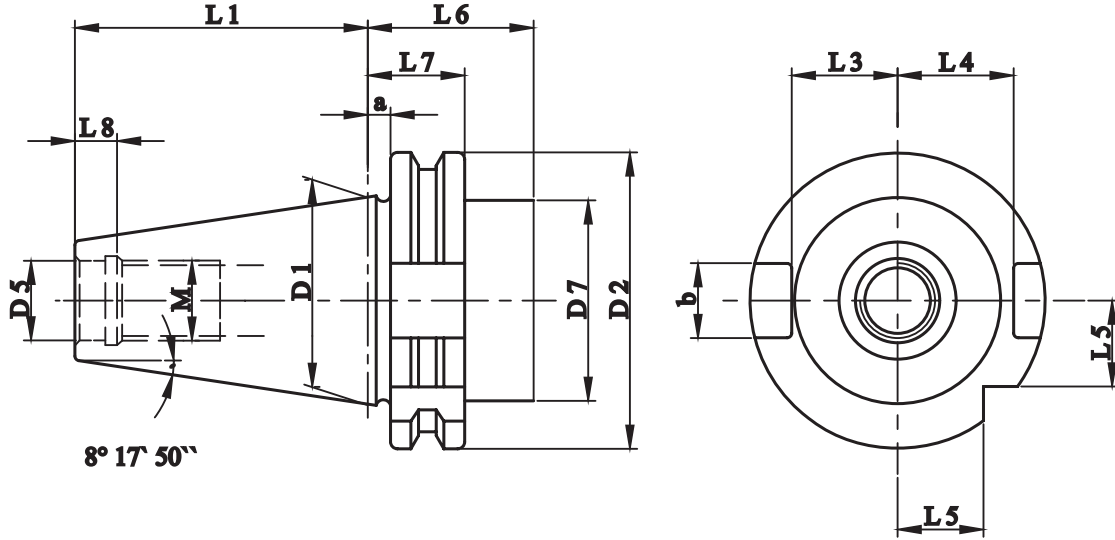


MANDRENLİ BAŞLIK



MANDRENLİ BAŞLIK İLE
DAHA KISA H MESAFESİ SAĞLANIR.

KOD	KONİK	KAPASİTE (mm)	D (mm)	L (mm)	h (mm)	FİYAT EUR
BBT40.1.13	BBT40	1-13	42	85	58	
BBT40.1.16	BBT40	1-16	49	100	73	



SK	D1	D2 0-0,1	D5 H7	M 6H	a ±0,1	b +0,2 +0	L1 0-0,3	L3 0-0,3	L4 0-0,3	L5 0-0,3	L6 min.	L7 0-0,1	L8 max.	D7 max.
30	31,75	50	13	M12	3,2	16,1	47,8	16,3	18,8	15	35	19,1	6	45
40	44,45	63,55	17	M16	3,2	16,1	68,4	22,7	25	18,5	35	19,1	8,7	50

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
DIN 2080-1 / AT3

SK PENS TAKIMLARI

DIN 69871

OZ TİP


DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER

- SK / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)
- SK ÇEKTİRME CİVATASI (1 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
SK40.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
SK40.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	

SK PENS TAKIMLARI

DIN 69871

ER TİP


DIN 6499 -B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER

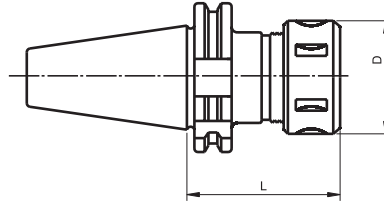
- SK / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (12 ADET)
- (ER25 TİPLERDE 12 ADETTİR.)
- SK ÇEKTİRME CİVATASI (1 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
SK30.ER25.T	2-16	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15	
SK30.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
SK40.ER25.T	2-16	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15	
SK40.ER32.T	3-20	3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19	
SK40.ER40.T	4-26	4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25	

SK PENS BAŞLIKLARI

DIN 69871

OZ TİP



DIN 6388
ISO 10897

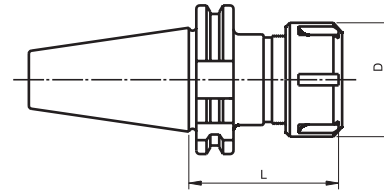
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE (mm)	D (mm)	L (mm)	FİYAT EUR
SK40.462E	SK40	3-25	60	70	
SK40.462E.100	SK40	3-25	60	100	
SK40.467E	SK40	3-32	72	90	

SK PENS BAŞLIKLARI

DIN 69871

ER TİP



DIN 6499
ISO 15488

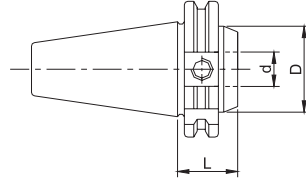
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE (mm)	D (mm)	L (mm)	FİYAT EUR
SK30.ER11.100	SK30	1-7	19	100	
SK30.ER16	SK30	1-10	28	60	
SK30.ER16.100	SK30	1-10	28	100	
SK30.ER25	SK30	1-16	42	60	
SK30.ER25.100	SK30	1-16	42	100	
SK30.ER32	SK30	2-20	50	63	
SK30.ER32.0M*	SK30	2-20	50	60	
SK40.ER11.100	SK40	1-7	19	100	
SK40.ER11.160	SK40	1-7	19	160	
SK40.ER16	SK40	1-10	28	60	
SK40.ER16.100	SK40	1-10	28	100	
SK40.ER16.160	SK40	1-10	28	160	
SK40.ER25	SK40	1-16	42	60	
SK40.ER25.100	SK40	1-16	42	100	
SK40.ER25.160	SK40	1-16	42	160	
SK40.ER32	SK40	2-20	50	70	
SK40.ER32.100	SK40	2-20	50	100	
SK40.ER32.160	SK40	2-20	50	160	
SK40.ER40	SK40	2-26	63	80	
SK40.ER40.100	SK40	2-26	63	100	
SK40.ER40.160	SK40	2-26	63	160	

OM* AHŞAP İŞLEYEN MARANGOZ CNC TEZGAHLARI İÇİNDİR.

SK VELDON TUTUCULAR

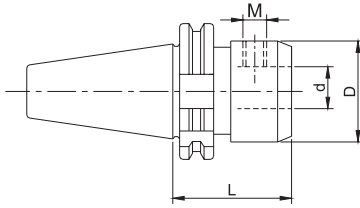
DIN 69871



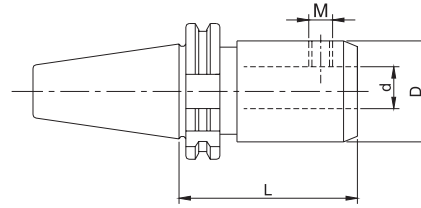
TİP 1 (KISA BOY)

DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm



TİP 2 (NORMAL BOY)

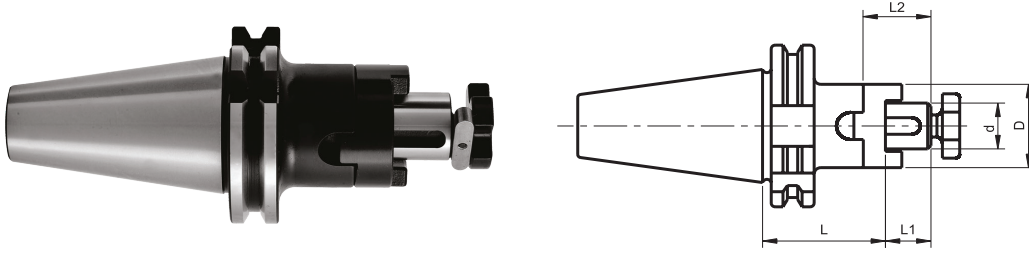


TİP 3 (UZUN BOY)

KOD	KONİK	d (mm)	L (mm)	D (mm)	VELDON CİVATASI	CİVATA ADEĐİ	TİP	FİYAT EUR
SK40.06.V	SK40	6	50	25	M6x10	1	2	
SK40.06.V.100	SK40	6	100	25	M6x10	1	3	
SK40.08.V	SK40	8	50	28	M8x10	1	2	
SK40.08.V.100	SK40	8	100	28	M8x10	1	3	
SK40.10.V	SK40	10	50	35	M10x12	1	2	
SK40.10.V.100	SK40	10	100	35	M10x12	1	3	
SK40.12.V	SK40	12	50	42	M12x16	1	2	
SK40.12.V.100	SK40	12	100	42	M12x16	1	3	
SK40.14.V	SK40	14	50	44	M12x16	1	2	
SK40.14.V.100	SK40	14	100	44	M12x16	1	3	
SK40.16.V.35	SK40	16	35	45	M14x16	1	1	
SK40.16.V	SK40	16	63	48	M14x16	1	2	
SK40.16.V.100	SK40	16	100	48	M14x16	1	3	
SK40.18.V	SK40	18	63	50	M14x16	1	2	
SK40.18.V.100	SK40	18	100	50	M14x16	1	3	
SK40.20.V.35	SK40	20	35	45	M14x12	1	1	
SK40.20.V	SK40	20	63	52	M16x16	1	2	
SK40.20.V.100	SK40	20	100	52	M16x16	1	3	
SK40.25.V.35	SK40	25	35	50	M14x12	1	1	
SK40.25.V	SK40	25	100	65	M20x20	2	2	
SK40.32.V	SK40	32	100	72	M20x20	2	2	
SK40.40.V	SK40	40	120	80	M20x20	2	2	

SK KOMBİNE MALAFALAR

DIN 69871



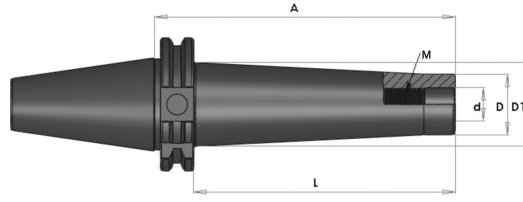
DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
SK40.16.K	SK40	16	32	55	17	27	
SK40.16.K.100	SK40	16	32	100	17	27	
SK40.16.K.160	SK40	16	32	160	17	27	
SK40.22.K	SK40	22	40	55	19	31	
SK40.22.K.100	SK40	22	40	100	19	31	
SK40.22.K.160	SK40	22	40	160	19	31	
SK40.27.K	SK40	27	48	55	21	33	
SK40.27.K.100	SK40	27	48	100	21	33	
SK40.27.K.160	SK40	27	48	160	21	33	
SK40.32.K	SK40	32	58	60	24	38	
SK40.32.K.100	SK40	32	58	100	24	38	
SK40.32.K.160	SK40	32	58	160	24	38	
SK40.40.K	SK40	40	70	60	27	41	
SK40.40.K.100	SK40	40	70	100	27	41	
SK40.40.K.160	SK40	40	70	160	27	41	

SK VİDALI TAKIM TUTUCULAR

DIN 69871



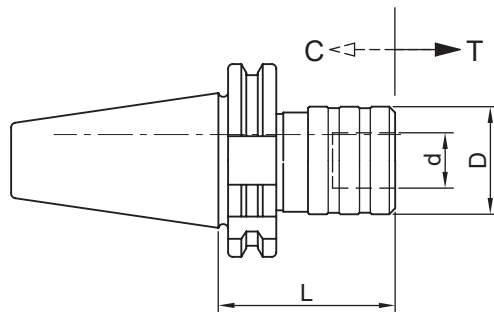
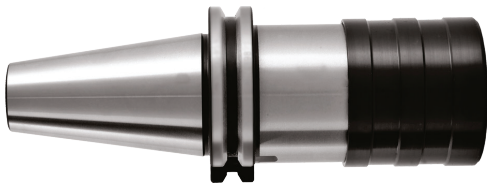
DIN 6339

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	M	D (mm)	D1 (mm)	d (mm)	A (mm)	L (mm)	FİYAT EUR
SK40.M06.050	BT40	M6	10	13	6,5	77	50	
SK40.M06.100	BT40	M6	10	19	6,5	127	100	
SK40.M08.050	BT40	M8	13	23	8,5	77	50	
SK40.M08.100	BT40	M8	13	25	8,5	127	100	
SK40.M10.050	BT40	M10	18	23	10,5	77	50	
SK40.M10.100	BT40	M10	18	32	10,5	127	100	
SK40.M12.050	BT40	M12	21	25	12,5	77	50	
SK40.M12.100	BT40	M12	21	32	12,5	127	100	
SK40.M16.075	BT40	M16	29	29	17	102	75	
SK40.M16.125	BT40	M16	29	34	17	152	125	

SK KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

DIN 69871

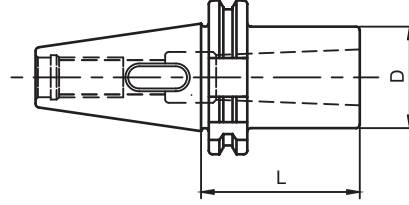


- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3

KOD	KONİK	KAPASİTE	d (mm)	D (mm)	L (mm)	C-T (mm)	FİYAT EUR
SK40.KCB.1	SK40	M3-M12	19	36,5	63	7,5-7,5	
SK40.KCB.2	SK40	M5-M24	31	54	97	12,5-12,5	
SK40.KCB.3	SK40	M14-M33	48	78	145	20-20	

SK KAMALI MORS ADAPTÖRÜ

DIN 69871



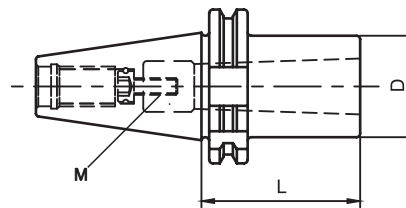
DIN 6383

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	İÇ KONİK	D (mm)	L (mm)	FİYAT EUR
SK40.K.MK1	SK40	MK1	25	50	
SK40.K.MK2	SK40	MK2	32	50	
SK40.K.MK3	SK40	MK3	40	70	
SK40.K.MK4	SK40	MK4	48	95	

SK ÇEKTİRME CİVATALI MORS ADAPTÖRÜ

DIN 69871



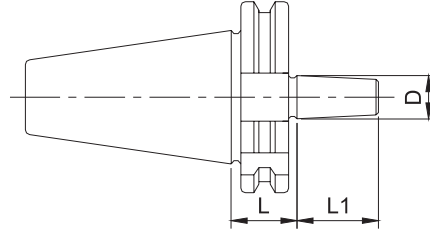
DIN 6364

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	İÇ KONİK	L (mm)	D (mm)	M (mm)	FİYAT EUR
SK40.C.MK1	SK40	MK1	50	25	M6	
SK40.C.MK2	SK40	MK2	50	32	M10	
SK40.C.MK3	SK40	MK3	70	40	M12	
SK40.C.MK4	SK40	MK4	95	63	M16	

SK MANDREN MALAFALARI

DIN 69871



DIN 238

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	MANDREN KONIĞİ	L (mm)	D (mm)	L1 (mm)	FİYAT EUR
SK40.B16	SK40	B16	24	15,733	24	
SK40.B18	SK40	B18	24	17,780	32	

SK MANDRENLİ BAŞLIKLAR

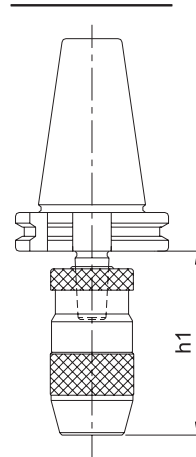
DIN 69871

ÖZELLİKLER

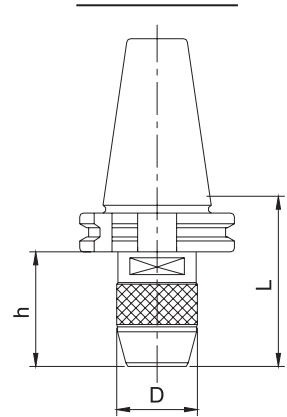
- ELLE VE ANAHTARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm



MANDREN MALAFASI İLE BAĞLAMA



MANDRENLİ BAŞLIK

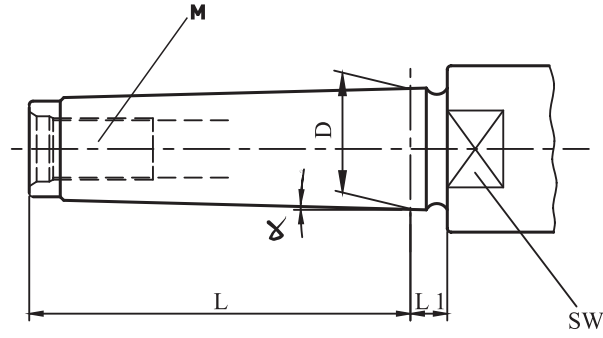


MANDRENLİ BAŞLIK İLE
DAHA KISA h MESAFESİ SAĞLANIR.

KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	h (mm)	FİYAT EUR
SK40.1.13	SK40	1-13	80	42	61	
SK40.1.16	SK40	1-16	95	49	76	

DIN 228A ÇEKTİRMELİ

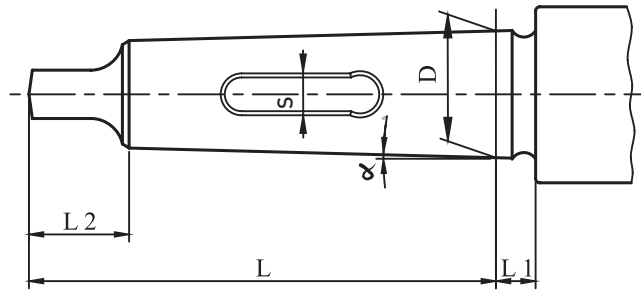
DIN 2207



MK	α	D	L	L1	SW	M
2	1°25'50"	17,780	64	5	-	M10
3	1°26'16"	23,825	81	5	24	M12
4	1°29'15"	31,267	102,5	6,5	32	M16
5	1°30'26"	44,399	129,5	6,5	45	M20

DIN 228B KAMALI

DIN 1806



MK	α	D	L	L1	S
2	1°25'50"	17,780	75	5	-
3	1°26'16"	23,825	94	5	8,3
4	1°29'15"	31,267	117,5	6,5	8,3
5	1°30'26"	44,399	149,5	6,5	12,4

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3

MK PENS TAKIMLARI ÇEKTİRMELİ

DIN 228 FORM A

OZ TİP

DIN 2207



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER

- MK / OZ ÇEKTİRMELİ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)

KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
MK3.C.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
MK4.C.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
MK4.C.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	
MK5.C.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
MK5.C.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	

MK PENS TAKIMLARI KAMALI

DIN 228 FORM B

OZ TİP

DIN 1806



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER

- MK / OZ ÇEKTİRMELİ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)

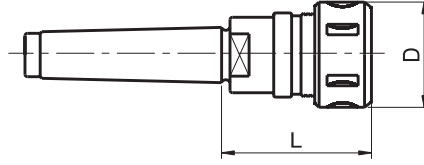
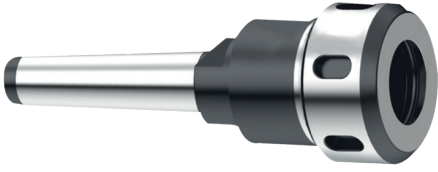
KOD	KAPASİTE (mm)	KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm)	FİYAT EUR
MK3.K.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
MK4.K.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
MK4.K.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	
MK5.K.462E.T	4-25	4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25	
MK5.K.467E.T	5-32	5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32	

MK PENS BAŞLIKLARI ÇEKTİRMELİ

DIN 228 FORM A

OZ TİP

DIN 2207


DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

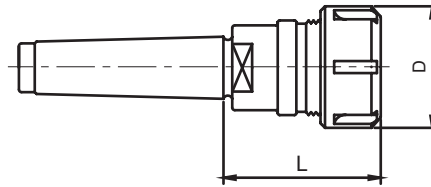
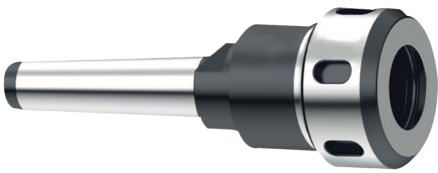
KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
MK3.C.462E	MK3	3-25	92	60	
MK4.C.462E	MK4	3-25	78	60	
MK4.C.467E	MK4	3-32	109	72	
MK5.C.462E	MK5	3-25	74	60	
MK5.C.467E	MK5	3-32	88	72	

MK PENS BAŞLIKLARI ÇEKTİRMELİ

DIN 228 FORM A

ER TİP

DIN 2207


DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

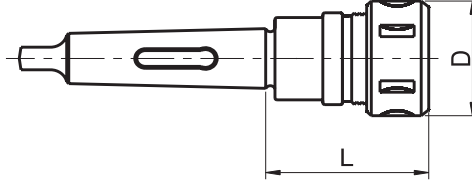
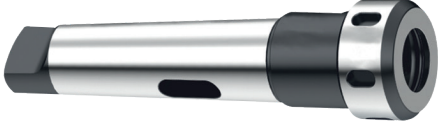
KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
MK2.C.ER25	MK2	1-16	52	42	
MK2.C.ER32	MK2	2-20	60	50	
MK3.C.ER32	MK3	2-20	70	50	
MK3.C.ER40	MK3	2-26	82	63	
MK4.C.ER32	MK4	2-20	62	50	
MK4.C.ER40	MK4	2-26	82	63	

MK PENS BAŞLIKLARI KAMALI

DIN 228 FORM B

OZ TİP

DIN 1806

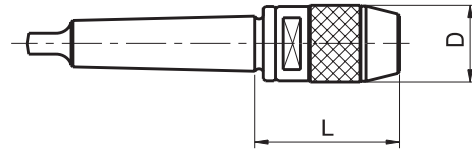
DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	KAPASİTE (mm)	L (mm)	D (mm)	FİYAT EUR
MK3.K.462E	MK3	3-25	77	60	
MK4.K.462E	MK4	3-25	78	60	
MK4.K.467E	MK4	3-32	89	72	
MK5.K.462E	MK5	3-25	74	60	
MK5.K.467E	MK5	3-32	88	72	

MK MANDRENLİ BAŞLIKLAR

DIN 228 FORM B



ÖZELLİKLER

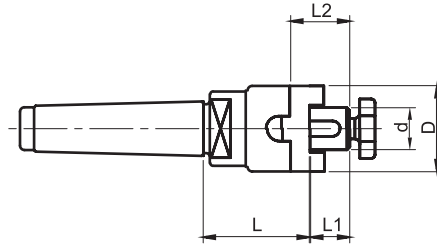
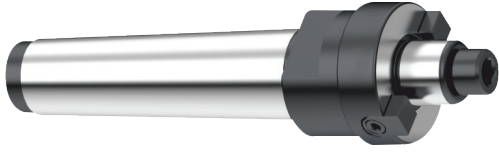
- ELLE VE ANAHTARLARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm

KOD	KONİK	KAPASİTE (mm)	D (mm)	L (mm)	FİYAT EUR
MK2.0.10	MK2	0-10	35	75	
MK2.1.13	MK2	1-13	42	85	
MK3.0.10	MK3	0-10	35	75	
MK3.1.13	MK3	1-13	42	85	
MK3.1.16	MK3	1-16	49	100	
MK3.4.20	MK3	4-20	55	110	
MK4.1.13	MK4	1-13	42	85	
MK4.1.16	MK4	1-16	49	100	
MK4.4.20	MK4	4-20	55	115	

MK KOMBİNE MALAFALAR ÇEKTİRMELİ

DIN 228 FORM A

DIN 2207



DIN 6358

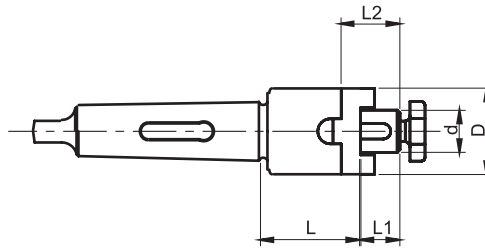
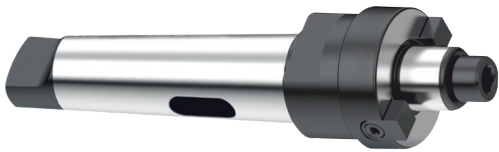
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
MK3.C.16.K	MK3	16	32	50	17	27	
MK3.C.22.K	MK3	22	40	50	19	31	
MK3.C.27.K	MK3	27	48	60	21	33	
MK4.C.16.K	MK4	16	32	50	17	27	
MK4.C.22.K	MK4	22	40	50	19	31	
MK4.C.27.K	MK4	27	48	60	21	33	
MK4.C.32.K	MK4	32	58	60	24	38	
MK4.C.40.K	MK4	40	70	65	27	41	
MK5.C.16.K	MK5	16	32	60	17	27	
MK5.C.22.K	MK5	22	40	60	19	31	
MK5.C.27.K	MK5	27	48	65	21	33	
MK5.C.32.K	MK5	32	58	70	24	38	
MK5.C.40.K	MK5	40	70	70	27	41	

MK KOMBİNE MALAFALAR KAMALI

DIN 228 FORM B

DIN 1806



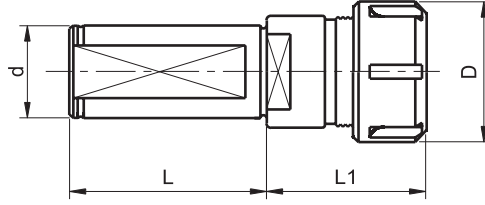
DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

KOD	KONİK	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
MK4.K.16.K	MK4	16	32	50	17	27	
MK4.K.22.K	MK4	22	40	50	19	31	
MK4.K.27.K	MK4	27	48	50	21	33	
MK4.K.32.K	MK4	32	58	60	24	38	
MK4.K.40.K	MK4	40	70	60	27	41	
MK5.K.16.K	MK5	16	32	50	17	27	
MK5.K.22.K	MK5	22	40	50	19	31	
MK5.K.27.K	MK5	27	48	50	21	33	
MK5.K.32.K	MK5	32	58	60	24	38	
MK5.K.40.K	MK5	40	70	60	27	41	

C (SİLİNDİRİK ŞAFTLI) PENS BAŞLIKLARI

ER TİPİ



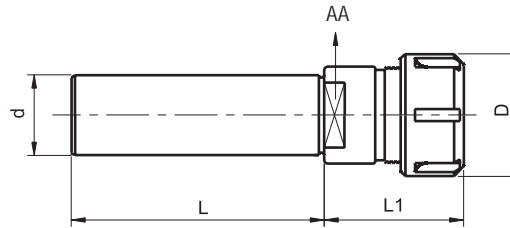
DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
- SALGI : MAX. 0,006 mm

KOD	KAPASİTE (mm)	d (mm)	D (mm)	L (mm)	L1 (mm)	FİYAT EUR
C.25.ER32	2-20	25	50	50	53	
C.32.ER25	1-16	32	42	60	42	
C.32.ER32	2-20	32	50	60	38	
C.32.ER40	2-26	32	63	60	59,5	
C.40.ER32	2-20	40	50	70	38	
C.40.ER40	2-26	40	63	70	59,5	

CY (SİLİNDİRİK ŞAFTLI) PENS BAŞLIKLARI

ER TİPİ



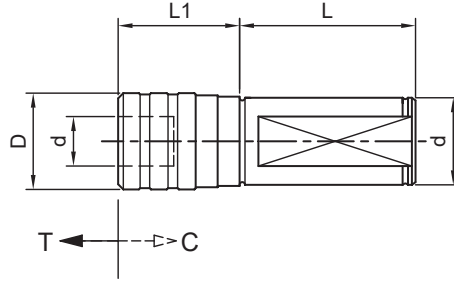
DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
- SALGI : MAX. 0,006 mm

KOD	KAPASİTE (mm)	d (mm)	AA (mm)	D (mm)	L (mm)	L1 (mm)	FİYAT EUR
CY.16.ER11.100	1-7	16	17	19	100	26,5	
CY.16.ER16.70	1-10	16	19	28 (32)	70	36,5	
CY.16.ER16.150	1-10	16	19	28 (32)	150	36,5	
CY.16.ER20.100	1-13	16	22	34 (35)	100	46,5	
CY.20.ER16.50	1-10	20	19	28 (32)	50	30,5	
CY.20.ER16.70	1-10	20	19	28 (32)	70	30,5	
CY.20.ER16.100	1-10	20	19	28 (32)	100	30,5	
CY.20.ER16.150	1-10	20	19	28 (32)	150	30,5	
CY.20.ER20.100	1-13	20	22	34 (35)	100	46,5	
CY.20.ER25.50	1-16	20	28	42	50	47	
CY.20.ER25.100	1-16	20	28	42	100	47	
CY.25.ER25.50	1-16	25	28	42	50	47	
CY.25.ER25.100	1-16	25	28	42	100	47	
CY.25.ER25.150	1-16	25	28	42	150	47	
CY.25.ER32.150	2-20	25	36	50	150	53	
CY.32.ER25.150	1-16	32	28	42	150	42	
CY.32.ER32.150	2-20	32	36	50	150	38	
CY.40.ER40.150	2-26	40	44	63	150	59,5	

C (SİLİNDİRİK ŞAFTLI) KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

TİP 7400

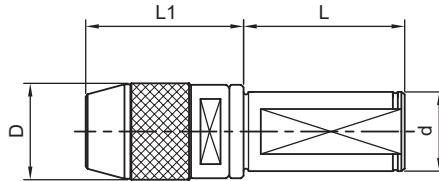


ÖZELLİKLER

- CNC TORNALARDA SORUNSUZ KILAVUZ ÇEKMEK İÇİN KULLANILIR

KOD	KONİK	KAPASİTE	d (mm)	D (mm)	L (mm)	L1 (mm)	C-T (mm)	FİYAT EUR
C25.KCB.1	25	M3-M12	19	36,5	60	45	7,5-7,5	
C25.KCB.2	25	M5-M24	31	54	60	45	12,5-12,5	
C32.KCB.1	32	M3-M12	19	36,5	75	40	7,5-7,5	
C32.KCB.2	32	M5-M24	31	54	75	40	12,5-12,5	
C32.KCB.3	32	M14-M33	48	78	75	40	20-20	

C (SİLİNDİRİK ŞAFTLI) MANDRENLİ BAŞLIK



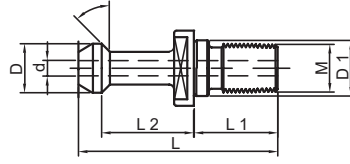
ÖZELLİKLER

- ELLE VE ANAHTARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm

KOD	KAPASİTE (mm)	d (mm)	D (mm)	L (mm)	L1 (mm)	FİYAT EUR
C20.1.13	1-13	20	42	50	88	
C25.1.13	1-13	25	42	50	88	
C25.1.16	1-16	25	49	50	105	
C32.0.10	0-10	32	35	60	78	
C32.1.13	1-13	32	42	60	88	
C32.1.16	1-16	32	49	60	105	
C32.4.20	4-20	32	55	60	115	
C40.0.10	0-10	40	35	60	78	
C40.1.13	1-13	40	42	70	88	
C40.1.16	1-16	40	49	70	105	
C40.4.20	4-20	40	55	70	115	

BT ÇEKTİRME CİVATALARI

MAS 403 - BT/JIS B 6339



BT BAŞLIKLAR İÇİNDİR

- MALZEME : 20 Mn Cr5
- SERTLİK : 56 ± 2 HRC

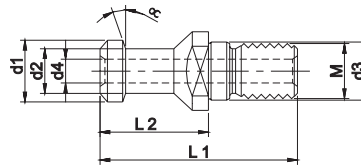
A TİPLER SU KANALLIDIR.

KOD	↗	TİP	D (mm)	D1 (mm)	d (mm)	M	L (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
BT30.CV.1.B	45°	B	11	12,5	-	M12	43	20	18	
BT30.CV.1.A		A	11	12,5	2,5	M12	43	20	18	
BT40.CV.1.B		B	15	17	-	M16	60	25	28	
BT40.CV.1.A		A	15	17	3,3	M16	60	25	28	
BT40.MZK*		A	18,796	17	7	M16	44,106	25	14,026	
BT50.CV.1.B		B	23	25	-	M24	85	40	35	
BT50.CV.1.A		A	23	25	8,5	M24	85	40	35	

MZK* MAZAK TEZGAHLAR İÇİNDİR.

SK ÇEKTİRME CİVATALARI

DIN 69872 A/B



SK BAŞLIKLAR İÇİNDİR

- MALZEME : 20 Mn Cr5
- SERTLİK : 56 ± 2 HRC

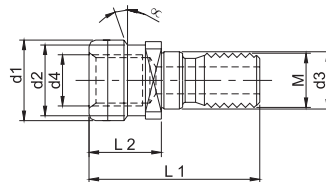
A TİPLER SU KANALLIDIR.

KOD	↗	TİP	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	M	L1 (mm)	L2 (mm)	FİYAT EUR
SK30.CV.B	15°	B	13	9	13	-	M12	44	24	
SK30.CV.A		A	13	9	13	4	M12	44	24	
SK40.CV.B		B	19	14	17	-	M16	54	26	
SK40.CV.A		A	19	14	17	7	M16	54	26	
SK50.CV.B		B	28	21	25	-	M24	74	34	
SK50.CV.A		A	28	21	25	11,5	M24	74	34	

ISO / DIN 2080 ÇEKTİRME CİVATALARI

BU ÇEKTİRME CİVATALARI BT, SK VE CV BAŞLIKLARIN DIN2079 FENER MİLLERİNE BAĞLANABİLMELERİ İÇİN ADAPTÖR GÖREVİ YAPARLAR .

- MALZEME : 20 Mn Cr5
- SERTLİK : 56 ± 2 HRC



KOD	↗	d1 (mm)	d2 (mm)	d3 (mm)	L1 (mm)	L2 (mm)	FİYAT EUR
ISO 40.BT	15°	25	21	17	56	28	
ISO 40.SK		25	21	17	53	25	
ISO 50.BT	-	39	32	25	65	25	

OZ ANAHTARLAR

DIN1810A



KOD	SIKMA KAPASİTESİ (mm)	KALINLIK (mm)	BOY (mm)	FİYAT EUR
462E.A	58-62	8	210	
467E.A	68-75	8	210	

ER ANAHTARLAR

DIN 6499



KOD	SIKMA KAPASİTESİ (mm)	KALINLIK (mm)	BOY (mm)	FİYAT EUR
ER16.A	32	5	163	
ER20.A	35	5	180	
ER25.A	42	6	206	
ER32.A	50	6	253	
ER40.A	63	8	284	

ER ANAHTARLAR (MİNİ TİP)

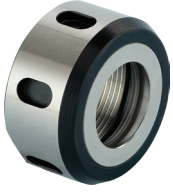
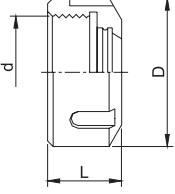
DIN 6499



KOD	SIKMA KAPASİTESİ (mm)	KALINLIK (mm)	BOY (mm)	FİYAT EUR
ER8.A.M	1-5	12	130	
ER11.A.M	1-7	16	130	
ER16.A.M	1-10	22	130	

OZ PENS KAPAKLARI

DIN6388-D / ISO10897

 	KOD	SIKMA KAPASİTESİ (mm)	d (mm)	D (mm)	L (mm)	FİYAT EUR
	462E.K	3-25	M48X2	60	30	
467E.K	3-32	M60X2,5	72	33,5		


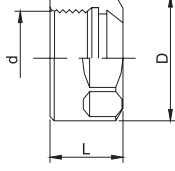
ER PENS KAPAKLARI

DIN 6499 / ISO15488

 	KOD	SIKMA KAPASİTESİ (mm)	d (mm)	D (mm)	L (mm)	FİYAT EUR
	ER16.K	1-10	M22x1,5	32	17,5	
ER20.K	1-13	M25x1,5	35	19		
ER25.K	1-16	M32x1,5	42	20		
ER32.K	2-20	M40x1,5	50	22,5		
ER40.K	2-26	M50x1,5	63	25,5		

ER PENS KAPAKLARI ANAHTAR AĞIZLI

DIN 6499 / ISO15488

 	KOD	SIKMA KAPASİTESİ (mm)	d (mm)	D (mm)	L (mm)	FİYAT EUR
	ER11.K	1-7	M14x0,75	19	11,3	
ER16.K	1-10	M22x1,5	28	17,5		
ER20.K	1-13	M25x1,5	34	19		

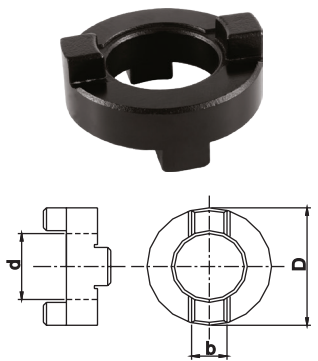
ER PENS KAPAKLARI MİNİ TİP

DIN 6499 / ISO15488

 	KOD	SIKMA KAPASİTESİ (mm)	d (mm)	D (mm)	L (mm)	FİYAT EUR
	ER8.K.M	1-5	M10x0,75	12	9	
ER11.K.M	1-7	M13x0,75	16	12		
ER16.K.M	1-10	M19x1	22	18		
ER20.K.M	1-13	M24x1	28	19		

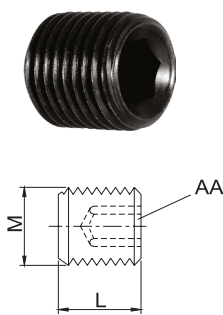
TIRNAKLI PUL

DIN 6366

	KOD	MALAFİA ÇAPI	d (mm)	D (mm)	b (mm)	FİYAT EUR
	TP 16	16	16	32	8	
TP 22	22	22	40	10		
TP 27	27	27	48	12		
TP 32	32	32	58	14		
TP 40	40	40	68	16		
TP 50	50	50	84	18		
TP 60	60	60	98	20		

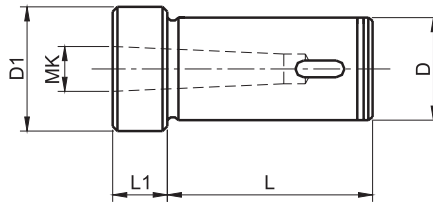
VELDON CİVATASI

DIN 1835-B

	KOD	VELDON ÇAPI	M (mm)	L (mm)	AA (mm)	FİYAT EUR
	M6.V	6	M6	10	3	
M8.V	8	M8	10	4		
M10.V	10	M10	12	5		
M12.V	12-14	M12	16	6		
M14.V	16-18	M14	16	6		
M16.V	20	M16	16	8		
M18.V	25	M18	20	10		
M20.V	32-40	M20	20	10		

REDÜKSİYON KOVANLARI MORS KONİK ŞAFTLAR İÇİN

TİP 7300



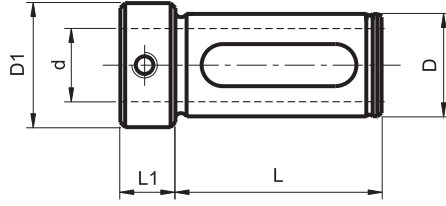
ÖZELLİKLER

- CNC TORNALARDA KONİK ŞAFTLI TAKIMLARI BAĞLAMAK İÇİNDİR
- SALGI : MAX.0,01 mm

KOD	D (mm)	MK	D1 (mm)	L1 (mm)	L (mm)	FİYAT EUR
7331	32	MK1	39	14	70	
7332		MK2				
7333		MK3				
7341	40	MK1	46,5	15	80	
7342		MK2				
7343		MK3				
7344		MK4				

REDÜKSİYON KOVANLARI SİLİNDİRİK ŞAFTLAR İÇİN

TİP 7400

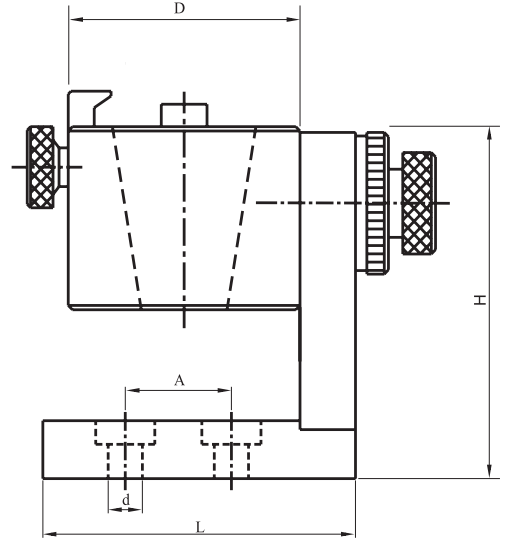
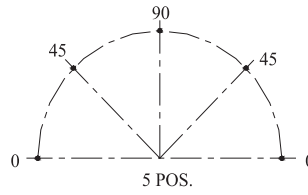
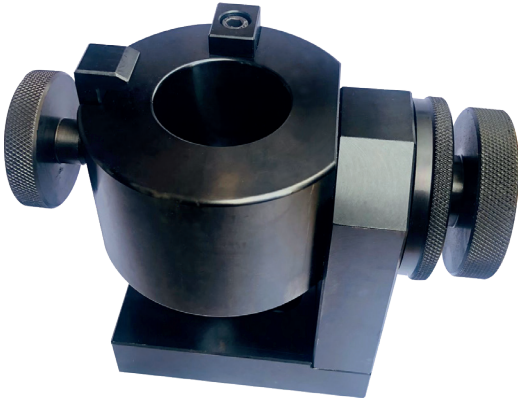


ÖZELLİKLER

- CNC TORNALARDA DELİK KATERLERİNİ VE SİLİNDİRİK ŞAFTLI TAKIMLARI BAĞLAMAK İÇİN KULLANILIR
- SALGI : MAX.0,01 mm

KOD	D (mm)	d (mm)	D1 (mm)	L1 (mm)	L (mm)	FİYAT EUR
7410	20	8	20	5	40	
7411		10				
7412		12				
7414		16				
7420	25	8	32	13	50	
7421		10				
7422		12				
7424		16				
7425		20				
7430	32	8	39	14	70	
7431		10				
7432		12				
7434		16				
7435		20				
7436		25				
7440	40	8	46,5	15	80	
7441		10				
7442		12				
7444		16				
7445		20				
7446		25				
7447		32				
7450	50	8	58	15	100	
7451		10				
7452		12				
7454		16				
7455		20				
7456		25				
7457		32				
7458		40				

MONTAJ APARATLARI (ÇELİK)

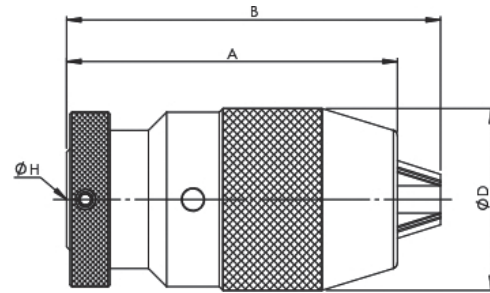


ÖZELLİKLER

- SAĞA VE SOLA 90 DERECE DÖNDÜRÜLEBİLİR
- HER 45 DERECE VE 90 DERECE SABİTLENEBİLİR

KOD	TİP	D (mm)	d (mm)	H (mm)	A (mm)	L (mm)	FİYAT EUR
SK.30	SK 30	88	11	127	50	105	
SK.40	SK 40	93	11	127	50	105	
SK.50	SK 50	118	11	172	50	105	

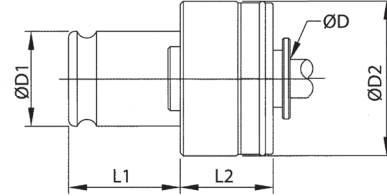
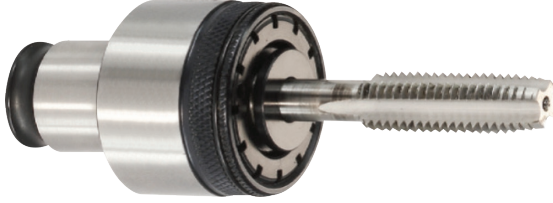
ELLE SIKMALI MANDRENLER



KOD	KAPASİTE (mm)	KONİK (H)	A (mm)	B (mm)	ØD	FİYAT EUR
510	0,3-10	B12	80	91	43	
513	0,3-13	B16	90	102	50	
515	2,5-16	B16	102	114	57	
516	2,5-16	B16	102	114	57	
520	5-20	B22	121	140	59	

ÖZELLİKLER

- TORK, KILAVUZU BELİRLİ PENSLERİN ETKİLERİNDEN KORUMAK AMACIYLA FABRİKA TARAFINDAN AYARLANMIŞTIR. EĞİTİMLİ KULLANICILAR TARAFINDAN KILAVUZ DAYANIMI VE MALZEMESİNE GÖRE UFAK DEĞİŞİKLİKLER YAPILABİLİR
- PENS, AYARLI TORKUN ÜSTÜNE ÇIKTIĞINDA ÇALIŞMAYI DURDURUR
- HER KILAVUZ SAP ÇAPI İÇİN BİR PENS GEREKLİDİR



EMNİYETLİ TİP KILAVUZ ADAPTÖRÜ Ø19

KOD	KILAVUZ ÖLÇÜSÜ	KILAVUZ SAPI		KAPASİTE	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	FİYAT EUR
		ØD	□						
312.020	M2	2.8	2.1	M2~M16	22.5	25	19	32	
312.030	M3	3.5	2.7						
312.040	M4	4.5	3.4						
312.050	M5	6.0	4.9						
312.060	M6	6.0	4.9						
312.080	M8	8.0	6.2						
312.100	M10	10.0	8.0						
312.120	M12	9.0	7.0						
312.140	M14	11.0	9.0						
312.160	M16	12.0	9.0						

EMNİYETLİ TİP KILAVUZ ADAPTÖRÜ Ø31

KOD	KILAVUZ ÖLÇÜSÜ	KILAVUZ SAPI		KAPASİTE	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	FİYAT EUR
		ØD	□						
820.050	M5	6.0	4.9	M5~M36	35	30.5	31	50	
820.060	M6	6.0	4.9						
820.080	M8	8.0	6.2						
820.100	M10	10.0	8.0						
820.120	M12	9.0	7.0						
820.140	M14	11.0	9.0						
820.160	M16	12.0	9.0						
820.180	M18	14.0	11.0						
820.200	M20	16.0	12.0						
820.220	M22	18.0	14.5						
820.240	M24	18.0	14.5						
820.270	M27	20.0	16.0						
820.300	M30	22.0	18.0						
820.330	M33	25.0	20.0						
820.360	M36	28.0	22.0						

KOD	AÇIKLAMA	FİYAT EUR
TC820/312	TRE 2/1 REDÜKSİYON ADAPTÖRÜ	
TC1433/820	TRE 3/2 REDÜKSİYON ADAPTÖRÜ	

