MILLING CUTTERS

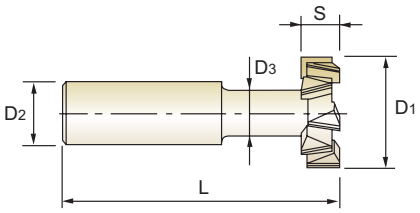
PLAIN SHANK **ML072** SERIES
FLAT SHANK **ML172** SERIES

HSS-E, T-SLOT CUTTERS TYPE “AA”, “AB”, “AD”

- HSS-E, SCHAFTERFRÄSER FÜR T-NUTEN FORM “AA”, “AB”, “AD”
- FRAISE HSS-E POUR RAINURE EN "T" TYPE "AA", "AB", "AD"
- FRESE PER SCANALATURE A T - DENTI ALTERNATI







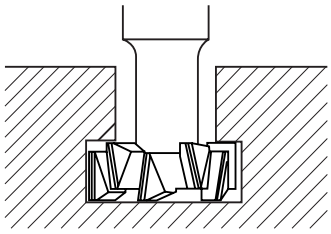
HSS-E | DIN 851 | N | 10°~20° | DIN 1835A | DIN 1835B | UNCOATED p.C795

Unit : mm

EDP No. PLAIN	EDP No. FLAT	Cutter Diameter D1(d11)	Width of Face S(d11)	Shank Diameter D2(h6)	Neck Diameter D3(h12)	Overall Length L(js18)	No. of Teeth Z
ML07212E01	ML17212E01	12.5	6	10	5	57	6
ML07201601	ML17201601	16.0	8	10	6.5	62	6
ML07201801	ML17201801	18.0	8	12	8	70	6
ML07201901	ML17201901	19.0	9	12	8	71	6
ML07202101	ML17202101	21.0	9	12	10	74	6
ML07202201	ML17202201	22.0	10	12	10	75	6
ML07202501	ML17202501	25.0	11	16	12	82	6
ML07202801	ML17202801	28.0	12	16	13	83	6
ML07203201	ML17203201	32.0	14	16	15	90	8
ML07203601	ML17203601	36.0	16	25	17	103	8
ML07204001	ML17204001	40.0	18	25	19	108	8

Tolerances according to DIN 7160 & 7161

	Nominal-Diameter in mm						
	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30	over 30 to 50	over 50 to 80	over 80 to 120
	Tolerance range in mm						
h12	0 / - 0.12	0 / - 0.15	0 / - 0.18	0 / - 0.21	0 / - 0.25	0 / - 0.30	0 / - 0.35
js18	± 0.90	± 1.10	± 1.35	± 1.65	± 1.95	± 2.30	± 2.70
	Tolerance range in μm						
d11	- 30 / - 105	- 40 / - 130	- 50 / - 160	- 65 / - 195	- 80 / - 240	- 100 / - 290	- 120 / - 340
h6	0 / - 8	0 / - 9	0 / - 11	0 / - 13	0 / - 16	0 / - 19	0 / - 22



◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎		◎										

ISO	N										S							H			
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended	○	○	○	○	○																

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