
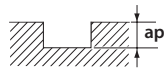


## Milling | Endmills | Cutting conditions

## Slotting

	Mild Steel • Carbon Steel • Cast Iron SS400 • S55C • FC250 (~750N/mm2)	Alloy Steel • Tool Steel SCM • SKT • SKS • SKD (~30HRC)		Hardened Steel • Prehardened Steel (Free-Cutting) SKT • SKD • NAK55 • HPM1 (30~38HRC)		Hardened Steel • Prehardened Steel (Nonfree-Cutting) SKT • SKD • NAK80 • HPM50 (38~45HRC)		Hardened Steel • Heat Resistant Alloy Steel (45~55HRC)		Hardened Steel (55~60HRC)		
	Vc	150 m/min		130 m/min		110 m/min		80 m/min		60 m/min		30 m/min
Ø	S (min <sup>-1</sup> )	F (mm/min)	S (min <sup>-1</sup> )	F (mm/min)	S (min <sup>-1</sup> )	F (mm/min)	S (min <sup>-1</sup> )	F (mm/min)	S (min <sup>-1</sup> )	F (mm/min)	S (min <sup>-1</sup> )	F (mm/min)
0,2	32.000	90	32.000	90	32.000	75	32.000	35	32.000	30	25.000	25
0,3	32.000	115	32.000	115	32.000	80	32.000	55	23.000	30	16.500	25
0,4	32.000	125	32.000	125	32.000	90	27.500	60	17.500	30	12.500	25
0,5	32.000	125	29.500	125	25.000	90	22.000	60	14.000	30	10.000	25
0,6	32.000	125	24.500	125	21.000	90	18.500	60	11.500	30	8.450	25
0,8	24.500	125	18.500	125	15.500	90	13.500	65	8.750	30	6.350	25
1	19.500	130	14.500	125	12.500	90	11.000	65	7.000	30	5.050	25
1,5	14.000	130	10.500	125	8.900	90	7.950	65	5.050	40	3.550	25
2	11.000	135	8.400	125	7.000	90	6.350	70	3.950	40	2.750	25
3	7.400	200	6.350	150	5.300	100	4.450	75	2.750	45	2.000	30
4	5.950	235	4.900	185	4.250	125	3.500	90	2.200	50	1.550	30
5	5.300	315	4.300	235	3.550	130	3.050	100	1.900	55	1.250	30
6	4.450	310	3.600	235	2.950	130	2.500	100	1.550	55	1.050	25
8	3.300	295	2.700	235	2.200	125	1.900	100	1.150	50	795	25
10	2.650	280	2.150	230	1.750	125	1.500	95	955	50	635	25
12	2.200	280	1.800	230	1.450	125	1.250	95	795	45	530	20
14	1.900	280	1.500	215	1.250	110	1.050	95	680	40	455	18
16	1.650	260	1.350	200	1.100	100	955	85	595	35	395	16
18	1.450	230	1.200	180	990	90	845	75	530	30	350	14
20	1.300	205	1.050	155	890	80	760	65	475	30	315	13
22	1.200	190	980	145	810	70	690	60	430	25	285	11
24	1.100	175	900	135	740	65	635	55	395	25	265	11
25	1.050	165	865	130	710	65	610	55	380	20	255	10
30	890	140	720	105	590	50	505	45	315	20	210	10

Max cutting depth



D	ap
< 1	0,1D
1 - 3	0,3D
≥ 3	0,5D

D	ap
< 1	0,02D
≥ 1	0,05D

D	ap
< 1	0,01D
1 - 3	0,02D
≥ 3	0,05D

1. Use high precision machine set up to ensure maximum rigidity.

2. In case of vibration, reduce both feed and speed.

3. Use a coolant that has a low co-efficient of smoke emission.

\* Modified parameters