

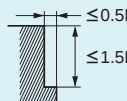
VIOLET END MILLS

VAMR

Roughing type, Medium cut length, 4—6 flute, Medium pitch form

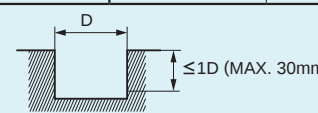
RECOMMENDED CUTTING CONDITIONS

Shoulder milling

Work material	Structural steel, Cast iron, Carbon steel Ck45, GG25, Cf53		Carbon steel, Alloy steel (20—30HRC) Ck55		Alloy steel, Tool steel, Pre-hardened steel (30—35HRC) X40CrMoV51, X210Cr12		Austenitic stainless steel, Alloy steel, Tool steel (35—40HRC) X5CrNi1810, X5CrNiMo17-12-2	
Dia. (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)
5	2400	120	1800	90	1200	60	1000	50
6	2200	155	1700	120	1100	70	930	65
8	1800	200	1400	140	950	100	780	85
10	1500	250	1100	200	810	125	680	100
12	1250	270	960	220	680	160	560	120
16	930	270	720	220	510	160	430	120
20	750	290	580	220	410	160	340	120
25	600	270	460	210	320	140	270	120
30	490	250	380	200	270	140	230	120
40	300	180	230	140	160	105	140	90
50	210	140	160	110	110	80	90	65
Depth of cut								

D:Dia.

Slotting

Work material	Structural steel, Cast iron, Carbon steel Ck45, GG25, Cf53		Carbon steel, Alloy steel (20—30HRC) Ck55		Alloy steel, Tool steel, Pre-hardened steel (30—35HRC) X40CrMoV51, X210Cr12		Austenitic stainless steel, Alloy steel, Tool steel (35—40HRC) X5CrNi1810, X5CrNiMo17-12-2	
Dia. (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)
5	1800	85	1350	60	920	40	740	25
6	1700	110	1300	85	830	45	700	35
8	1300	140	1050	100	730	70	600	50
10	1100	170	810	140	620	85	520	60
12	900	190	740	160	520	115	420	75
16	680	190	540	160	390	115	330	75
20	550	195	440	150	320	115	260	75
25	440	170	350	135	240	90	200	70
30	350	160	270	120	180	75	155	65
40	240	120	180	90	120	60	105	55
50	260	90	125	75	80	50	70	40
Depth of cut								

D:Dia.

- 1) Supply cutting fluid sufficiently during cutting. For dry-cutting, decrease the revolution and feed rate proportionately by 20—50%.
- 2) When the diameter exceeds 30 and the metal removal is less than the quantity shown in the table, the revolution and feed rate may be increased proportionately by 10—40%.
- 3) If the rigidity of the machine or the work materials installation is very low, or chattering and noise are generated, reduce the revolution and feed rate proportionately.