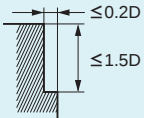


VIOLET END MILLS**HSS****VA4MC**

End mill, Medium cut length, 4 flute

RECOMMENDED CUTTING CONDITIONS**Shoulder milling**

Work material	Structural steel, Cast iron, Carbon steel		Carbon steel, Alloy steel (20—30HRC)		Alloy steel, Tool steel, Pre-hardened steel (30—35HRC)		Austenitic stainless steel, Alloy steel, Tool steel (35—40HRC)	
	Ck45, GG25, Cf53		Ck55		X40CrMoV51, X210Cr12		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)
3	5400	270	4000	200	2700	140	2200	100
4	4300	320	3200	240	2100	160	1800	120
5	3600	340	2700	250	1800	170	1500	130
6	3200	350	2400	260	1600	180	1300	140
8	2400	380	1800	290	1200	190	1000	145
10	1900	420	1400	300	950	210	800	160
12	1600	380	1200	290	800	190	660	145
16	1200	340	900	260	600	170	500	130
20	950	290	720	220	480	140	400	110
25	760	240	570	180	380	120	320	100
30	640	210	480	160	320	100	270	80
Depth of cut	 ≤ 0.2D ≤ 1.5D D: Dia.							

- 1) 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.