

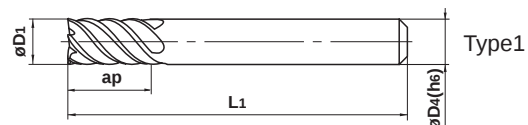
VF6MHV

End mill, Medium cut length, 6 flute, Irregular helix flutes



CARBIDE

Carbon Steel, Alloy Steel, Cast Iron (≤30HRC)	Tool Steel, Pre-Hardened Steel, Hardened Steel (≤45HRC)	Hardened Steel (≤55HRC)	Hardened Steel (>55HRC)	Austenitic Stainless Steel	Titanium Alloy, Heat Resistant Alloy	Copper Alloy	Aluminium Alloy
○	○	○		◎	◎		



D1≤12	D1>12			
0 - 0.020	0 - 0.030			
D4=6	8≤D4≤10	12≤D4≤16	D4=20	
0 - 0.008	0 - 0.009	0 - 0.011	0 - 0.013	

- Newly developed irregular helix 6 flute geometry reduces vibrations and achieves high efficiency machining.
- Suitable for machining of difficult-to-cut materials such as stainless steel, titanium alloy and inconel.

Unit : mm

Order Number	D1	ap	L1	D4	Flutes	Stock	Type
VF6MHVD0600	6	13	50	6	6	●	1
D0800	8	19	60	8	6	●	1
D1000	10	22	70	10	6	●	1
D1200	12	26	75	12	6	●	1
D1600	16	32	90	16	6	●	1
D2000	20	38	100	20	6	●	1

RECOMMENDED CUTTING CONDITIONS**Shoulder milling**

Work material	Alloy steel, Tool steel, Pre-hardened steel X40CrMoV51		Austenitic stainless steel, Titanium alloy X5CrNi1810, X5CrNiMo17-12-2, Ti6Al4V		Heat resistant alloys Inconel718	
Dia. (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)
6	10600	2900	8000	2000	2100	320
8	8000	2900	6000	2000	1600	300
10	6400	2700	4800	2000	1300	260
12	5300	2700	4000	2000	1100	230
16	4000	2200	3000	1600	800	180
20	3200	1900	2400	1400	640	150
Depth of cut						

D:Dia.

- When cutting austenitic stainless steels, the use of water-soluble cutting fluid is effective.
- If the depth of cut is shallow, the revolution and feed rate can be increased.
- The irregular helix flute end mill has a larger effect on controlling vibration when compared to standard end mills. However, if the rigidity of the machine or the workpiece installation is poor, vibration or abnormal sound can occur. In this case, please reduce the revolution and feed rate proportionately, or set a lower depth of cut.

● : Inventory maintained.

SQUARE

BALL

RADIUS

TAPER

SOLID END MILLS