

TOOLS NEWS

B048G

MIRACLE Multi-flute High-helix Endmill

High efficiency cutting is possible for difficult-tocut materials (titanium alloy, inconel, stainless steel and so on) and soft materials. **MIRACLE Multi-flute High-helix Endmill**

VC-6NH, VC-8NH

High efficiency cutting is possible for difficult-to-cut materials (titanium alloy, inconel, stainless steel and so on) and soft materials. Additionally, these endmills provide for cutting to stability and high-precision.



Machining Example





							Unit : mm
Order Number	Dia.	Length of Cut	Overall Length	Shank Dia.	No. of Flute N	Stock	Туре
	D1	ар	L1	D4			
VC6MHD0600	6	13	50	6	6	٠	1
D0800	8	19	60	8	6	•	1
D1000	10	22	70	10	6	٠	1
D1200	12	26	75	12	6	•	1
D1600	16	32	90	16	6	٠	1
D2000	20	38	100	20	6	•	1
D2500	25	45	120	25	6	٠	1



 Best for processing of difficult-to-cut materials such as titanium alloy, heat resistance alloy and so on, and soft materials.

							Unit : mm
Order Number	Dia.	Length of Cut	Overall Length	Shank Dia.	No. of	ock	Type
	D1	ар	L1	D4	N	Sto	Type
VC8MHD2000	20	38	100	20	8	٠	1
D2500	25	45	120	25	8	•	1

MIRACLE END MILLS



VC-8MH **MIRACLE Multi-flute High-helix Endmill**

MITSUBISHI

Work material	Carbon steel, Alloy steel (-30HRC) al SS400, AISI 1049, SCM Cast iron, FC250		Alloy steel, Tool steel Pre-hardened steel (30-45HRC) AISI H13, NAK, SUS630		Austenitic stainless steel AISI 304, AISI 316 Titanium alloy Ti-6AI-4V		Heat resistant alloy Inconel etc.		
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)	
6	10,600	2,900	8,000	2,000	4,200	900	2,100	320	
8	8,000	2,900	6,000	2,000	3,200	900	1,600	300	
10	6,400	2,700	4,800	2,000	2,500	870	1,300	260	
12	5,300	2,700	4,000	2,000	2,100	830	1,100	230	
16	4,000	2,200	3,000	1,600	1,600	740	800	180	
20	3,200	1,900	2,400	1,400	1,300	710	640	150	
25	2,500	1,600	1,900	1,200	1,000	560	510	120	
Depth of cut		≤0.1D	≤0.05D ≤1D						
	D-Dia								

1) In case of VC8MH, please set the feed rate at 120% of the above value.

2) In cutting austenitic stainless steels, the use of water-soluble cutting fluid is effective.

3) If the depth of cut is shallow, the revolution and feed rate can be increased.

4) If the rigidity of the machine or the work material installation is very low, or chattering is generated, please reduce the revolution and feed rate proportionately, or set the depth of cut smaller.

5) For side milling, climb cut is recommended.



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