

# V470 High Efficiency Varix Carbide Endmills

## 整體硬質合金高效益抗震銑刀

- **Unequal flute spacing for anti-vibration.**

不等分割設計大幅降低加工時產生的震動

- **High removal rate for steel and stainless steel machining.**

適用於一般鋼料及不鏽鋼高去除率加工

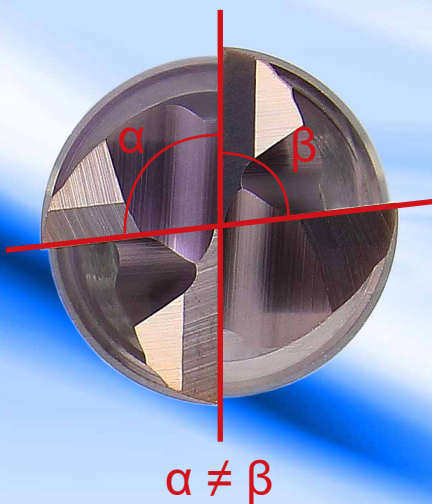
- **Low cutting force and burr prevention.**

低切削阻力和抑制毛刺

**METRIC**

P	M	K	N	S	H
●	○	●			

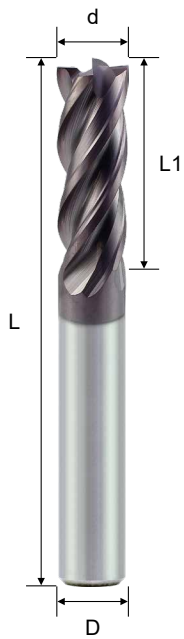
Excellent chip evacuation



WE1808-2EC

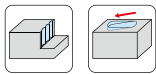
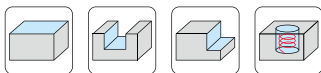
- Unequal flute spacing for anti-vibration.
- High removal rate for steel and stainless steel machining.
- Low cutting force and burr prevention.
- UNICO coating includes Al, Ti, Cr, N elements.

### EPSSV



Work Material 加工材料							
Carbon Steel 碳素鋼 (S45C, S55C)	Alloy Steel 合金鋼 (SK, SCM)	Hardened Steel 硬度鋼			Stainless Steel 不鏽鋼 (SUS304, 316)	Cast Iron 鑄鐵	Superalloy 高溫合金
		~ HRC 40	~ HRC 45	~ HRC 55			
◎	◎	◎	◎		○	◎	

Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSSV444000U	4	10	50	4	4
EPSSV403000U	3	8	50	6	4
EPSSV404000U	4	10	50	6	4
EPSSV406000U	6	15	50	6	4
EPSSV408000U	8	20	60	8	4
EPSSV410000U	10	25	75	10	4
EPSSV412000U	12	30	75	12	4
EPSSV416000U	16	35	100	16	4



Ød	Tolerance
Ød ≤ 12	0 ~ -0.02
Ød ≥ 12	0 ~ -0.03

※If the machine not stable, please reduce the feed about 20%.  
若機床條件較不穩定，請將進給率調降 20%

Working material 被加工材料	Cutting application 加工方式	ae (mm)	ap (mm)	Vc (m/min)	fz (mm/z)					
					4mm	6mm	8mm	10mm	12mm	16mm
Carbon steel (S45C, S55C) 中碳鋼	Slot milling 溝銑	1×d	0.5 ~ 1.0×d	80 ~ 145	0.025	0.030	0.040	0.050	0.060	0.080
	Side roughing 粗側銑	0.4 ~ 0.9×d	0.7 ~ 1.0×d	90 ~ 160	0.030	0.035	0.050	0.060	0.075	0.100
	Side finishing 精側銑	0.1 ~ 0.3×d	0.7 ~ 1.5×d	130 ~ 225	0.020	0.025	0.035	0.045	0.055	0.072
Alloy steel (SK, SCM) 合金鋼	Slot milling 溝銑	1×d	0.5 ~ 1.0×d	70 ~ 130	0.024	0.029	0.038	0.048	0.057	0.076
	Side roughing 粗側銑	0.4 ~ 0.9×d	0.7 ~ 1.0×d	80 ~ 145	0.029	0.033	0.048	0.057	0.071	0.095
	Side finishing 精側銑	0.1 ~ 0.3×d	0.7 ~ 1.5×d	95 ~ 180	0.019	0.024	0.033	0.043	0.052	0.068
Tool steel (SKD) 工具鋼	Slot milling 溝銑	1×d	0.5 ~ 1.0×d	65 ~ 110	0.020	0.025	0.035	0.045	0.055	0.072
	Side roughing 粗側銑	0.4 ~ 0.9×d	0.7 ~ 1.0×d	70 ~ 130	0.030	0.035	0.045	0.055	0.070	0.088
	Side finishing 精側銑	0.1 ~ 0.3×d	0.7 ~ 1.5×d	90 ~ 160	0.020	0.025	0.035	0.040	0.050	0.064
Stainless steel (SUS304, SUS316) 不銹鋼	Slot milling 溝銑	1×d	0.5 ~ 1.0×d	50 ~ 65	0.015	0.020	0.030	0.035	0.040	0.056
	Side roughing 粗側銑	0.4 ~ 0.9×d	0.7 ~ 1.0×d	65 ~ 100	0.020	0.025	0.035	0.045	0.055	0.072
	Side finishing 精側銑	0.1 ~ 0.3×d	0.7 ~ 1.5×d	80 ~ 110	0.020	0.025	0.035	0.040	0.050	0.064
Hardened steel (HRC ≤ 45) 熱處理高硬鋼	Slot milling 溝銑	1×d	0.5 ~ 1.0×d	30 ~ 60	0.015	0.020	0.025	0.030	0.035	0.048
	Side roughing 粗側銑	0.4 ~ 0.9×d	0.7 ~ 1.0×d	50 ~ 90	0.015	0.020	0.030	0.035	0.040	0.056
	Side finishing 精側銑	0.1 ~ 0.3×d	0.7 ~ 1.5×d	65 ~ 120	0.020	0.025	0.035	0.040	0.050	0.064

