

Tool Selection Guide

Application and selection

Ref. Page	Applications	Description	Features	Shape	Coating	No. of Flutes	Helix Angle	Outside Dia. ϕD_c (mm)
L24	Ball nose	2UEBS	Ball-nose End Mill with 2 Flutes		TiAlN	2	30°	$\phi 1 \sim \phi 20$
		3UEBS	Ball-nose End Mill with 3 Flutes			3	30°	$\phi 3 \sim \phi 12$
		4YEBS	Ball-nose End Mill with 4 Flutes			4	38°	$\phi 5 \sim \phi 20$
L25	Special corner-R shaped	6PDRS	6 flutes, High feed rate		AlTiN	6	20°	$\phi 6 \sim \phi 12$
L28	Hardened metals	4HFSS	Multi-edge type Negative rake angle Hardened metals Finishing		MEGACOAT HARD	4	45°	$\phi 1 \sim \phi 12$
		5HFSS						
		6HFSS						
		7HFSS						
		4HFSM						
		5HFSM						
		6HFSM						
		7HFSM						
		8HFSM						
		4UGSM						
L29		6UGSM			TiAlN	4, 6	50°	$\phi 3 \sim \phi 16$
L30	Aluminum & Non-ferrous metals	3NESM	Variable Pitch with wiper edge			3	38°	$\phi 3 \sim \phi 20$
L31		2NFSM	Sharpness oriented Smooth chip evacuation			2	45°	$\phi 1 \sim \phi 20$
		3NFSM				3		$\phi 3 \sim \phi 20$
		3NFSL				3		$\phi 3 \sim \phi 20$
L32		3AESM	Roughing			3	30°	$\phi 6 \sim \phi 25$
3AESL	3	$\phi 6 \sim \phi 25$						

L



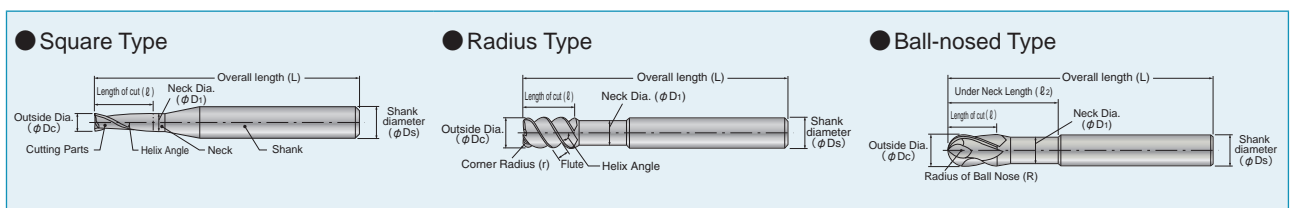
Solid End Mill

Solid End Mill Identification System

2 F E S M 020 - 060 - 04 XXXXXXXX

① No. of Flutes	② Application	③ Helix Angle	④ Series	⑤ Length of cut	⑥ Outside Dia.	⑦ Length of cut	⑧ Shank diameter	⑨ Others
2	F : Surface finish oriented	D : 20-29°	S : Square	S : Short	020	060	04	Corner Radius C width etc...
3	U (UF) / P (PG): Multi-purpose	E : 30-39°	B : Ball Nose	M : Medium	↓ 2.0mm	↓ 6.0mm	↓ 4.0mm	
4	Z : Multi-functional, high efficiency	F : 40-49°	R : Radius	L : Long				
5	Y/D : High efficiency (Difficult-to-cut Material)	G : 50-59°	K : Tough corner edge	W : For Automatic Lathe				
6			C : with Corner Chamfering					
7	R : Roughing							
8	H/U (UG): Hardened metals N/A : Aluminum & Non-ferrous metals							

Dimensions



L4