

F653SX

End Mills With Corner Radius For Difficult To Cut Materials

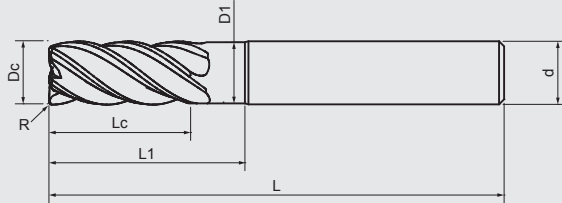
Designed with two variable helix geometry and two unequal flutes.

Sharp cutting edge is good for cutting toughness materials.

Designed with high removal cutting geometry.

Improved cutting edge strength with corner radius.

Good wear resistance and lubricating effect with Nano multilayer coating.

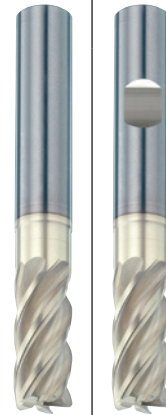


VHM
Carbide

AlTiXN+ZrN
SX



Stainless
Titanium
Nickel



Sharp cutting edge is suitable for cutting stainless steel, titanium, nickel and high temp alloys... etc.
Application for HPC/ roughing cutting and HSC/ finishing cutting.

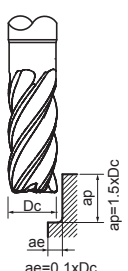
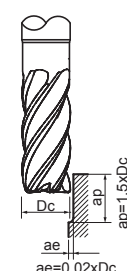
M
S

M
S

DIN 6527 Standard Length

Dc 0 -0.02	R ±0.01	Lc mm	L mm	d h5	L1 mm	D1 mm	F653SX HA	F653SX HB				
3	R0.5	8	57	6	14	2.8	●	●				
4	R0.5	11	57	6	16	3.8	●	●				
5	R0.5	13	57	6	18	4.8	●	●				
6	R0.5	13	57	6	20	5.8	●	●				
8	R0.5	19	63	8	26	7.7	●	●				
10	R0.5	22	72	10	31	9.7	●	●				
12	R0.5	26	83	12	37	11.6	●	●				
16	R0.5	32	92	16	43	15.5	●	●				
20	R0.5	38	104	20	53	19.5	●	●				

Cutting Conditions

F653SX									
		cutting speed Vc (m/min)	feed per tooth fz(mm)	cutting speed Vc (m/min)	feed per tooth fz(mm)	cutting speed Vc (m/min)	feed per tooth fz(mm)	cutting speed Vc (m/min)	feed per tooth fz(mm)
Stainless Steel Materials									
M	GR8-1 Ferritic \ Martensitic	80		0.003xDc		90		0.004xDc	
	GR8-2 Austenitic	70		0.003xDc		80		0.003xDc	
	GR8-3 Austenitic-ferritic	40		0.002xDc		50		0.003xDc	
	GR8-4 Austenitic-ferritic Heat-resistant	30		0.002xDc		40		0.003xDc	
Cast Iron Materials									
	GRI5 Titanium	35		0.002xDc		40		0.002xDc	
Nickel Materials									
S	GRI6-1 Nickel	30		0.002xDc		35		0.002xDc	
	GRI6-2 cobalt-base alloys	30		0.002xDc		35		0.002xDc	
	GRI6-3 Iron-based alloy	30		0.002xDc		35		0.002xDc	
Heat-resistant Steel Materials									
	GRI7 Heat-resistant Steel	30		0.002xDc		35		0.002xDc	

All cutting data serve for orientation only and should be adapted individually to the technical conditions on location

1. Please work with good rigidity / high precision facilities and collet chuck.
2. Please choose proper cutting fluid.
3. The cutting data is reference value only. Please adjust it according to your real working conditions.
4. If RPM is lower the reference value, the Feed rate (fz) and RPM should be reduced by the same proportion.
5. If vibration occurs during cutting, please reduce cutting parameter.