

SFUET® 200NaNo Series



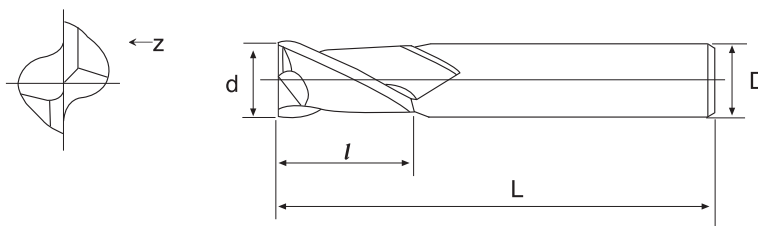
Square End Mill - 2 flutes

Super Ultra Fine Micro Grain Carbide

WC = 91 Co = 9 HRA = 93.2 Rupture = 4000N/mm² Grain Size = 0.2µm

Application Iron, Carbon steel, Cast Iron, Alloy Steel, Tool Steel, Heat treatment Steel, Welding Steel

Main Character Super Ultra Fine Micro Grain Carbide that has high toughness, coating ALTIN (TiAlN) and wear-resisting, non-general titanium aluminium is specialized in milling on M/C high hardness at a high speed and can carry on rough machining get to detailed process directly for heat treatment mould to reduce change times, improve machine flexible rate and shorten producing time.



MODE	Diameter d	Flute Length l	Full Length L	Shank Diameter D	Flute No. Z	Packing Quantity	Price
SFUET0102-HSC	1.0	2.5	50	4.0	2 Z	6	
SFUET0152-HSC	1.5	3.0	50	4.0	2 Z	6	
SFUET0202-HSC	2.0	5.0	50	4.0	2 Z	6	
SFUET0252-HSC	2.5	6.0	50	4.0	2 Z	6	
SFUET0302-HSC	3.0	7.5	50	4.0	2 Z	6	
SFUET0352-HSC	3.5	8.0	50	4.0	2 Z	6	
SFUET0402-HSC	4.0	9.0	50	4.0	2 Z	6	
SFUET0452-HSC	4.5	10.0	50	6.0	2 Z	6	
SFUET0502-HSC	5.0	11.0	50	6.0	2 Z	6	
SFUET0552-HSC	5.5	12.0	50	6.0	2 Z	6	
SFUET0602-HSC	6.0	13.0	60	6.0	2 Z	4	
SFUET0652-HSC	6.5	14.0	60	8.0	2 Z	4	
SFUET0702-HSC	7.0	14.0	60	8.0	2 Z	4	
SFUET0752-HSC	7.5	16.0	60	8.0	2 Z	4	
SFUET0802-HSC	8.0	16.0	60	8.0	2 Z	4	
SFUET0852-HSC	8.5	18.0	75	10.0	2 Z	2	
SFUET0902-HSC	9.0	18.0	75	10.0	2 Z	2	
SFUET0952-HSC	9.5	22.0	75	10.0	2 Z	2	
SFUET1002-HSC	10.0	22.0	75	10.0	2 Z	2	
SFUET1052-HSC	10.5	24.0	75	12.0	2 Z	2	
SFUET1102-HSC	11.0	24.0	75	12.0	2 Z	2	
SFUET1152-HSC	11.5	24.0	75	12.0	2 Z	2	
SFUET1202-HSC	12.0	26.0	75	12.0	2 Z	2	
SFUET1402-HSC	14.0	30.0	75	16.0	2 Z	1	
SFUET1502-HSC	15.0	30.0	75	16.0	2 Z	1	
SFUET1602-HSC	16.0	33.0	75	16.0	2 Z	1	
SFUET2002-HSC	20.0	45.0	100	20.0	2 Z	1	



Attention : In order to get better cutting surface and lengthen the life-time of the end mill, please use high accuracy, high rigidity and dynamic equilibrium of holder.

1. Before using the end mill, please examine the end mill to lean towards and put, when the precision of the leaning towards of end mill exceeds 0.01mm, please cut after correcting.
2. It is better that end mill stretches out shorter from chuck, when the end mill stretches out longer, please adjust the rotational speed, feeding speed or cutting amount.
3. Unusual vibrations or sound happen when cutting, please adjust and lower the rotational speed of the main shaft one by one, feeding speed and cutting amount until improving the situation, or change the high-quality end mill.
4. It is the best way to cool steel material by spraying or air in order to make TiAIN efficiently; we commend to adopt non-water cutting liquid to cool the stainless steel, titanium alloy or heat-resisting alloy liquid.
5. Cutting will be influenced by work piece, machine and software; the above-mentioned data are only for reference, please improve feeding speed by 30%~50% up after cutting situation steadily.

SFUET 2 Flutes Recommended Milling conditions

Working material hardness	Below HRC30°		HRC30°~HRC35°		HRC35°~HRC40°		HRC40°~HRC45°		HRC45°~HRC65°	
	Rotational speed	Feeding speed	Rotational speed	Feeding speed	Rotational speed	Feeding speed	Rotational speed	Feeding speed	Rotational speed	Feeding speed
	RPM	mm/min.	RPM	mm/min.	RPM	mm/min.	RPM	mm/min.	RPM	mm/min.
Shank Diameter										
§ 1.0	12800	480	11840	400	11120	360	10400	320	8400	304
§ 2.0	11840	560	11120	520	10240	480	8920	464	7200	400
§ 3.0	9600	880	8800	800	7840	720	7200	640	6240	400
§ 4.0	9200	1280	7840	1080	7200	760	6800	600	5600	544
§ 5.0	8000	1600	7600	1360	7120	1040	6240	640	4400	480
§ 6.0	8000	1600	7200	1320	6560	960	6080	760	4000	440
§ 8.0	5200	1760	4800	1440	3600	1200	3200	960	2000	520
§ 10.0	3040	1520	2400	1200	2000	880	1600	720	1280	400
§ 12.0	2560	1440	2160	1200	2000	960	1600	800	960	360