MILL 3116/6 FLUTE



INDUSTRY EXCLUSIVE TITANIUM DESIGN.



CONSISTENT CUTTING EDGES that resist fatigue and micro-chipping.

CUTTING EDGES PERFORM at higher speeds with longer times in-cut for added value.

PRODUCES IMPROVED SURFACE FINISHES, higher quality parts, and stable cutting permitting more aggressive feeds and speeds.

INCREASED CORE FOR STRENGTH AND STABILITY in-cut. Maximum edge strength and high flute count make it a durable and long-lasting tool.

UNSURPASSED PERFORMANCE

in High Efficiency Milling (HEM)

CENTER CUTTING



CUTTER TOLERANCE +.000"/-.002 +0.000mm/-0.050mm h6 shank tolerance

D1	L2	D2	L1	SQ	.010 R	.020 R	.030 R	.060 R	.120 R
1/4	3/8	1/4	2 ½			29100			
	3/4	1/4	2 ½	29000		29101	29102	29103	
3/8	1/2	3/8	2 ½			29104	29105	29106	29107
	1.0	3/8	3.0	29001	29108	29109	29110	29111	
1/2	5/8	1/2	2 ½				29112	29113	
	1.0	1/2	3.0	29002		29114	29115	29116	29117
	1¼	1/2	4.0				29118	29119	29120
5/8	3/4	5/8	3.0				29133		
	1%	5/8	3 ½	29003			29121	29122	29123
3/4	1.0	3/4	4.0				29124	29125	29126
	15⁄8	3/4	4.0	29004			29127	29128	29129
1.0	2.0	1.0	4 ½	29005			29130	29131	29132



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SPEEDS / FEEDS





		Rough Profile	HEM	Finish	Examples
SFM ((ft/min)	400	400	400	Ti Grado 1
Axia	l Depth	< (2xD)	< (2xD)	< (2xD)	II GIAUE I
Radia	al Width	(.253)xD	(.125)xD	(.0508)xD	Ti Grade 2
1/8"	3mm	.0003	.0003	.0004	Ti Crado Z
1/4"	6mm	.0008	.0008	.0010	II didue 5
3/8"	10mm	.0010	.0010	.0015	Ti Grade 4
1/2"	12mm	.0015	.0015	.0020	Ti Crada 7
3/4"	20mm	.0020	.0020	.0025	
1"	25mm	.0032	.0032	.0035	Ti Grade 12

		TITANIUM				
		Rough Profile	HEM	Finish	-	
SFM (ft/min)	300	325	325	Fyompleer	
Axial	Depth	< (2xD)	< (2xD)	< (2xD)	Examples:	
Radial Width		(.253)xD	(.125)xD	(.0508)xD		
1/8"	3mm	.0003	.0003	.0004	Ti 3AI-2 5V	
1/4"	6mm	.0008	.0008	.0010	11 JAI-2.3V	
3/8"	10mm	.0010	.0010	.0015	Ti 6Al-4V	
1/2"	12mm	.0015	.0015	.0020	Ti 10V_2Eo_3AI	
3/4"	20mm	.0020	.0020	.0025	II IUV-Zre-JAI	
1"	25mm	.0032	.0032	.0035	(with the exception of β Ti)	







Multiply by 25.4 for metric.

3116 Series TiMill designed to excel in titanium.

Not Recommended for High Si Aluminum (>10%), Low Si Aluminum (<10%), Composites, Plastics, Brass & Copper, or Graphite. The parameters listed for tool series that are stocked uncoated are based on running an uncoated tool. If a coating is applied to the tools, the SFM can be increased by approximately 25%. All speed and feed recommendations should be considered only as a starting point. Start with conservative speeds and feeds while analyizing the rigidity of the process. Then cautiously progress incrementally to achieve optimum performance.



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