

INDUSTRY EXCLUSIVE TITANIUM DESIGN.



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.

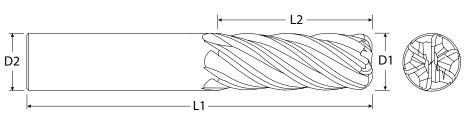
INCREASED CORE FOR STRENGTH AND STABILITY

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 +0.000мм/-0.050мм h6 shank tolerance

D1	L2	D2	LI	SQ	.010 R	.020 R	.030 R	.060 R	.120 R
1/4	3/8	1/4	2 1/2	29134		29100			
	3/4	1/4	2 1/2	29000		29101	29102	29103	
3/8	1/2	3/8	2 1/2			29104	29105	29106	29107
	1	3/8	3	29001	29108	29109	29110	29111	
1/2	5/8	1/2	2 1/2				29112	29113	
	1	1/2	3	29002		29114	29115	29116	29117
	11/4	1/2	4				29118	29119	29120
5/8	3/4	5/8	3				29133		
	11/2	5/8	3 1/2	29003			29121	29122	29123
3/4	1	3/4	4				29124	29125	29126
	15/8	3/4	4	29004			29127	29128	29129
1	2	1	4 1/2	29005			29130	29131	29132

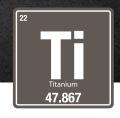


3116/6 FLUTE



Examples: Ti Grade 1 Ti Grade 2 Ti Grade 3 Ti Grade 4

Ti Grade 7 Ti Grade 12





		TITANIUM			
		Rough Profile	HEM	Finish	
SFM (f	t/min)	400	400	400	
Axial	Depth	< (2xD)	< (2xD)	<(2xD)	
Radial Width		(.253)xD	(.125)xD	(.0508)xD	
1/8"	3mm	.0003	.0003	.0004	
1/4"	6mm	.0008	.0008	.0010	
3/8"	10mm	.0010	.0010	.0015	
1/2"	12mm	.0015	.0015	.0020	
3/4"	20mm	.0020	.0020	.0025	
1"	25mm	.0032	.0032	.0035	

		TITANIUM			
		Rough Profile	HEM	Finish	
SFM (f	t/min)	300	325	325	
Axial	Depth	< (2xD)	<(2xD)	<(2xD)	
Radial Width		(.253)xD	(.125)xD	(.0508)xD	
1/8"	3mm	.0003	.0003	.0004	
1/4"	6mm	.0008	.0008	.0010	
3/8"	10mm	.0010	.0010	.0015	
1/2"	12mm	.0015	.0015	.0020	
3/4"	20mm	.0020	.0020	.0025	
1"	25mm	.0032	.0032	.0035	

Examples:

Ti 3Al-2.5V
Ti 6Al-4V
Ti 10V-2Fe-3Al
(with the exception of β Ti)





Rough Profile





HEM





Finish

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 analyzing the rigidity of the process. Then cautiously progress incrementally to achieve optimum performance.