



SERIES 3000, 3000C, 3000R, 3090C Intimidator



Four Uniquely Indexed RH Cut Flutes

INCH UNITS

	Gray Cast Iron (400 - 600) SFM					Steel (Low and Medium Carbon) (450 - 550) SFM					Tool Steels (200 - 300) SFM				
	Slotting		Side Milling (Profiling)			Slotting		Side Milling (Profiling)			Slotting		Side Milling (Profiling)		
	Rough	Finish	Heavy	Light	Finish	Rough	Finish	Heavy	Light	Finish	Rough	Finish	Heavy	Light	Finish
Axial Depth	(.5 - 1) x D	(.2 - .4) x D	1.5 x D			(.5 - 1) x D	(.2 - .4) x D	1.5 x D			(.5 - 1) x D	(.2 - .4) x D	1.5 x D		
Radial Width	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D
1/4	.0015	.0020	.0015	.0020	.0020	.0015	.0020	.0015	.0020	.0020	.0015	.0020	.0015	.0020	.0020
3/8	.0025	.0030	.0025	.0030	.0030	.0025	.0030	.0025	.0030	.0030	.0025	.0030	.0025	.0030	.0030
1/2	.0028	.0032	.0028	.0032	.0032	.0028	.0032	.0028	.0032	.0032	.0028	.0032	.0028	.0032	.0032
3/4	.0030	.0035	.0030	.0035	.0035	.0030	.0035	.0030	.0035	.0035	.0030	.0035	.0030	.0035	.0035
1	.0040	.0045	.0040	.0045	.0045	.0040	.0045	.0040	.0045	.0045	.0040	.0045	.0040	.0045	.0045
	FPT (in/tooth)					FPT (in/tooth)					FPT (in/tooth)				
	Stainless Steel - Free Machining (303) (250 - 300) SFM					Stainless Steel - Medium Machining (304, Kovar) (200 - 250) SFM					Stainless Steel - Hard Machining (L & PH Series) (170 - 230) SFM				
	Slotting		Side Milling (Profiling)			Slotting		Side Milling (Profiling)			Slotting		Side Milling (Profiling)		
	Rough	Finish	Heavy	Light	Finish	Rough	Finish	Heavy	Light	Finish	Rough	Finish	Heavy	Light	Finish
Axial Depth	(.5 - 1) x D	(.2 - .4) x D	1.5 x D			(.5 - 1) x D	(.2 - .4) x D	1.5 x D			(.5 - 1) x D	(.2 - .4) x D	1.5 x D		
Radial Width	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D
1/4	.0015	.0018	.0015	.0018	.0018	.0015	.0018	.0015	.0018	.0018	.0012	.0014	.0012	.0014	.0014
3/8	.0024	.0026	.0024	.0026	.0026	.0020	.0022	.0020	.0022	.0022	.0018	.0020	.0018	.0020	.0020
1/2	.0026	.0028	.0026	.0028	.0028	.0022	.0024	.0022	.0024	.0024	.0020	.0022	.0020	.0022	.0022
3/4	.0028	.0032	.0028	.0032	.0032	.0026	.0028	.0026	.0028	.0028	.0024	.0026	.0024	.0026	.0026
1	.0030	.0035	.0030	.0035	.0035	.0028	.0030	.0028	.0030	.0030	.0025	.0027	.0025	.0027	.0027
	FPT (in/tooth)					FPT (in/tooth)					FPT (in/tooth)				
	Titanium Alloys (6A14V) (150 - 200) SFM					High Temp Alloys (Inconel, Waspalloy) (100-120) SFM									
	Slotting		Side Milling (Profiling)			Slotting		Side Milling (Profiling)							
	Rough	Finish	Heavy	Light	Finish	Rough	Finish	Heavy	Light	Finish					
Axial Depth	(.5 - 1) x D	(.2 - .4) x D	1.5 x D			(.5 - 1) x D	(.2 - .4) x D	1.5 x D							
Radial Width	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D	full	full	(.3 - .5) x D	(.1 - .2) x D	(.03 - .06) x D					
1/4	.0008	.0010	.0008	.0010	.0010	.0008	.0010	.0008	.0010	.0010					
3/8	.0012	.0015	.0012	.0015	.0015	.0013	.0015	.0013	.0015	.0015					
1/2	.0016	.0018	.0016	.0018	.0018	.0019	.0020	.0019	.0020	.0020					
3/4	.0020	.0022	.0020	.0022	.0022	.0025	.0028	.0025	.0028	.0028					
1	.0028	.0030	.0028	.0030	.0030	.0027	.0030	.0027	.0030	.0030					
	FPT (in/tooth)					FPT (in/tooth)									

Speeds and Feeds Formulas

D cutter diameter (inches)

T tooth count (flutes)

FPT feed per tooth (in/tooth)

SFM surface speed(ft/min) = $FPT \times T \times RPM$

RPM spindle speed (rpm) = $(SFM \times 3.82) \div D$

IPM feed rate (inch/min) = $FPT \times T \times RPM$

* Recommendations are intended for starting parameters only.