GARR TOOL Milling Guide for VHM Series 4-Flute Rougher

	ISO Material	SFM (Vc)	CHIPLOAD PER TOOTH (Fz)									
			3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"		
	NICKEL BASE ALLOYS											
S	High Temperature Alloys: Inconel 625/718, A286	100 - 175	.0007"0010"	.0008"0010"	.0010"0015"	.0010"0015"	.0010"0015"	.0012"0020"	.0015"0025"	.0015"0025"		
3	TITANIUM ALLOYS											
	Titanium: 6AL4V, CP	150 - 200	.0008"0010"	.0010"0015"	.0010"0020"	.0015"0020"	.0020"0030"	.0025"0030"	.0030"0035"	.0030"0040"		
	STAINLESS STEELS											
	Stainless Steel: 303	290 - 375	.0008"0010"	.0010"0015"	.0013"0020"	.0015"0020"	.0020"0030"	.0025"0035"	.0030"0040"	.0035"0045"		
M	Stainless Steel: 304, 316, 400 Series, Kovar, Invar	250 - 300	.0006"0010"	.0008"0015"	.0010"0020"	.0012"0020"	.0015"0020"	.0020"0025"	.0025"0030"	.0025"0035"		
	Stainless Steel: 304L, 316L, 8620, 17/4, 15/5, 13/8, PH Mat'l	200 - 250	.0006"0008"	.0007"0010"	.0008"0010"	.0010"0015"	.0010"0020"	.0015"0025"	.0020"0030"	.0020"0030"		
	HIGH STRENGTH TOOL STEELS											
P	High Strength Tool Steel: 4130, 4140, A2, D2, P20, H13	250 - 400	.0006"0008"	.0007"0010"	.0008"0010"	.0010"0015"	.0010"0020"	.0015"0025"	.0020"0030"	.0020"0030"		
	CARBON STEELS											
	Carbon Steels: 1000 Series	275 - 425	.0006"0008"	.0008"0012"	.0010"0015"	.0010"0020"	.0015"0025"	.0020"0025"	.0020"0030"	.0025"0035"		
	CAST MATERIAL											
K	Cast Iron	400 - 500	.0010"0020"	.0010"0020"	.0015"0020"	.0015"0025"	.0020"0035"	.0025"0035"	.0030"0040"	.0040"0050"		

	Slotting	Profiling
Axial (ap)	0.5xD	2xD
Radial (ae)	1xD	0.2xD





NOTE - ABOVE ARE STARTING PARAMETERS ONLY. HIGHER RESULTS MAY BE ACHIEVED WITH OPTIMUM CONDITIONS.

GARR TOOL Milling Guide for VHM Series 4-Flute Rougher

	ISO Material	M/Min. (Vc)	CHIPLOAD PER TOOTH (Fz)								
			4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.0mm	16.0mm	20.0mm	25.0mm
	NICKEL BASE ALLOYS										
S	High Temperature Alloys: Inconel 625/718, A286	30 - 55	.008015	.018025	.020025	.025038	.025038	.025038	.030050	.038063	.038063
3	TITANIUM ALLOYS										
	Titanium: 6AL4V, CP	45 - 60	.010020	.020025	.025038	.025050	.038050	.050076	.063076	.076089	.076102
	STAINLESS STEELS										
	Stainless Steel: 303	90 - 115	.010020	.020025	.025038	.033050	.038050	.050076	.063089	.076102	.089114
M	Stainless Steel: 304, 316, 400 Series, Kovar, Invar	75 - 90	.008015	.015025	.020038	.025050	.030050	.038050	.050063	.063076	.063089
	Stainless Steel: 304L, 316L, 8620, 17/4, 15/5, 13/8, PH Mat'l	60 - 75	.008015	.015020	.018025	.020025	.025038	.025050	.038063	.050076	.050076
	HIGH STRENGTH TOOL STEELS										
P	High Strength Tool Steel: 4130, 4140, A2, D2, P20, H13	75 - 125	.006015	.015020	.018025	.020025	.025038	.025050	.038063	.050076	.050076
r	CARBON STEELS										
	Carbon Steels: 1000 Series	85 - 130	.008015	.015020	.020030	.025038	.025050	.038063	.050063	.050076	.063089
	CAST MATERIAL										
K	Cast Iron	125 - 150	.013025	.025050	.025050	.038050	.038063	.050089	.063089	.076102	.102127

	Slotting	Profiling
Axial (ap)	0.5xD	2xD
Radial (ae)	1xD	0.2xD





NOTE - ABOVE ARE STARTING PARAMETERS ONLY. HIGHER RESULTS MAY BE ACHIEVED WITH OPTIMUM CONDITIONS.