GARR TOOL X3, G3 High Performance Milling Guide

	ICO Matarial		M/Min. (Vc)	CHIPLOAD PER TOOTH (Fz)						
ISO Material		HRC		1.0mm	2.0mm	3.0mm	4.0mm	5.0mm	6.0mm	
	COBALT BASE ALLOYS									
S	Powdered Metal, Stellite, Hs-21, Haynes 25/188, X-40, L-605	< 40 > 40	37 - 75 30 - 60	.003008 .003008	.005020 .003015	.010025 .008023	.015028 .010025	.018038 .013033	.020051 .015046	
	NICKEL BASE ALLOYS									
	Invar, Kovar, Inconel-625/718, Waspaloy, Rene, Hastelloy, A286	< 40 > 40	37 - 75 30 - 60	.003008 .003008	.005020 .003015	.010025 .008023	.015028 .010025	.018038 .013033	.020051 .015046	
	IRON BASE ALLOYS									
	Incoloy 800-802, Multimet N-155, Timkin 16-25-6, Carpenter 22-b3	< 40 > 40	37 - 75 30 - 60	.003008 .003008	.005020 .003015	.010025 .008023	.015028 .010025	.018038 .013033	.020051 .015046	
	MONEL									
	Monel - 65% Nickel		50 - 90	.003008	.005020	.013025	.015028	.018038	.020051	
	TITANIUM ALLOYS									
	Commercially Pure, 6Al-4V, Astm 1/2/3, 6Al-25N-4Zr-2Mo-Si		80 - 150	.003008	.008020	.013025	.015028	.018038	.023048	
	5553 / Beta Titanium		60 - 110	.003008	.008018	.013025	.015028	.015036	.023043	
M	STAINLESS STEELS									
	13/8, 15/5, 17-4, pH Types	< 40 > 40	90 - 150 70 - 110	.003008 .003008	.008020 .005015	.010025 .008023	.015028 .010025	.018038 .013033	.018046 .015038	
	200 Series, 300 Series	< 40 > 40	110 - 170 90 - 140	.003008 .003008	.008020 .005015	.010025 .008023	.015028 .010025	.018038 .013036	.018046 .015038	
	304L, 316L, Nitronic 50	< 40 > 40	100 - 160 70 - 110	.003008 .003008	.008020 .005015	.010025 .008023	.015028 .010025	.018038 .013036	.018046 .015036	
	400 Series	< 40 > 40	90 - 170 70 - 130	.003008 .003008	.008020 .005015	.010025 .008023	.015028 .010025	.018038 .013036	.018046 .015036	
	HIGH STRENGTH TOOL STEELS									
P	A2, D2, P20, H13, S7, O1	< 40 > 40	90 - 160 60 - 130	.003008 .003008	.008020 .005015	.010025 .008023	.015028 .010025	.018036 .013028	.020046 .018036	
	MEDIUM ALLOY TOOL STEELS									
	4140, 4340, 52100, 6150, 8620	< 40 > 40	140 - 200 100 - 150	.003008 .003008	.008020 .005015	.010028 .008025	.015028 .010025	.018038 .013036	.020048 .018036	
	CARBON STEELS									
	1000's - 1018, 1020, 12L14	< 40	150 - 240	.003008	.008020	.010030	.015028	.013041	.025038	
K	CAST MATERIAL									
	Steel (Malleable)		140 - 210	.003008	.008020	.013025	.015028	.018046	.023058	
	Ductile Iron		140 - 210	.003008	.008020	.013025	.015028	.018046	.023058	
	Gray Iron		180 - 235	.003008	.008020	.013025	.015028	.018046	.025056	

	Profile/Trochoidal Milling	Slotting
Axial (ap)	MAX	0.5 to 1xD
Radial (ae)	Up to 15% Dia.	1xD



NOTE - DATA DOES NOT REFLECT CHIP THINNING.

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