GARR TOOL HTD 12 High Performance Drilling Guide

ISO Material		HRC	SFM (Vc)	CHIPLOAD PER TOOTH (Fz)		
				1/8" - 1/4"	1/4" - 3/8"	3/8" - 1/2"
COBALT BASE ALLOYS						
S	Haynes 25/188, Stellite 21, Cobalt Chrome	< 40 > 40	110 70	.0006"0016" .0004"0012"	.0016"0022" .0012"0018"	.0022"0035" .0018"0031"
	NICKEL BASE ALLOYS					
	Inconel-625/718, Waspaloy, Invar, Rene, Hastelloy, Monel	< 40 > 40	120 80	.0006"0016" .0004"0012"	.0016"0022" .0012"0018"	.0022"0035" .0018"0031"
	IRON BASE ALLOYS					
	A286, Discaloy, Haynes 556, Carpenter 22, Greek Ascolloy	< 40 > 40	120 80	.0006"0016" .0004"0012"	.0016"0022" .0012"0018"	.0022"0035" .0018"0031"
	TITANIUM ALLOYS					
	Commercially Pure, 6Al-4V, Astm 1/2/3, 6Al-25N-4Zr-2Mo-Si		170	.0006"0026"	.0026"0040"	.0040"0055"
	5553 / Beta Titanium		120	.0005"0023"	.0023"0034"	.0034"0047"
м	STAINLESS STEELS					
	13/8, 15/5, 17-4, pH Types	< 40 > 40	150 105	.0006"0018" .0005"0013"	.0018"0035" .0013"0030"	.0035"0049" .0030"0043"
	300 Series, 304L, Nitronic 50,	< 40	150	.0006"0018"	.0018"0035"	.0035"0049"
	Duplex, Super-Austenitic	> 40 < 40	105 160	.0005"0013" .0006"0018"	.0013"0030" .0018"0035"	.0030"0043" .0035"0049"
	400 Series - 403, 405, 420, 455	> 40	105	.0005"0013"	.0013"0030"	.0030"0043"
Ρ	HIGH STRENGTH TOOL STE	E LS < 40	170	.0008"0026"	.0026"0038"	.0038"0050"
	A2, D2, P20, H13, S7, O1	< 40 > 40	105	.00080020"	.0020"0038"	.0032"0043"
	MEDIUM ALLOY TOOL STEELS					
	4140, 4340, 52100, 6150, 8620	< 40 > 40	260 110	.0008"0026" .0006"0020"	.0026"0038" .0020"0032"	.0038"0050" .0032"0043"
	CARBON STEELS					
	1000's - 1018, 1020, 12L14	< 40	320	.0008"0029"	.0030"0045"	.0045"0060"
к	CAST MATERIAL					
	Ductile Iron		340	.0008"0029"	.0029"0045"	.0045"0060"
	Gray Iron		350	.0008"0029"	.0029"0045"	.0045"0060"
N	NON-FERROUS					
	Aluminum 2014, 2024, 6061-(T1-T6), 7075		400	.0016"0030"	.0030"0046"	.0046"0062"
	Aluminum Die Cast		375	.0014"0027"	.0027"0040"	.0040"0054"
	Magnesium		275	.0014"0026"	.0026"0037"	.0037"0049"
	Copper		250	.0013"0024"	.0024"0031"	.0031"0044"
	Brass		360	.0016"0030"	.0030"0044"	.0044"0060"
	Bronze		260	.0013"0024"	.0024"0031"	.0031"0044"

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

GARR TOOL®

