



MAXSPEED™ 05 OPERATING GUIDELINES

Materials				V _c Cutting Speed SFM	f _z Feed/Tooth (inch)	Harder <-----> Tougher			Coolant	Geometry	
ISO	Mat'l Group #VDI 3323	Type	Examples			IN2510	IN2505	IN2530		M	ML
P	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	400-850	.0015-.0030		1	2	NO	2	1
	6 thru 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	350-500	.0015-.0030		1	2	NO	2	1
	10, 11	High-alloy Steel	H13, A2, D2, M2, T1	250-500	.0015-.0030		1	2	NO	1	2
M	12 thru 13	"Stainless Steel (Ferritic & Martensitic)"	410, 416, 440	350-550	.0015-.0030		2	1	YES	2	1
	14	Stainless Steel (Austenitic)	303, 304, 316, 15-5, 17-4	300-500	.0015-.0030		2	1	May not be required at high speeds	2	1
K	15 thru 16	Gray Cast Iron	CLS. 20, 30, 45	500-700	.0015-.0030	1	2	3	NO	2	1
	17 thru 18	Nodular Cast Iron	60-40-18, 100-70-03	400-650	.0015-.0030	2	1	3	NO	1	2
N	21 thru 30	Aluminum	7075, 6061	1000+	.0015-.0030	1		2			1
S	31 thru 35	High-Temp Alloys	Inconel, Hastelloy, Monel	60-130	.0015-.0030		2	1	YES	2	1
	36 thru 37	Titanium Alloys	6AL-4V, 5Al-5Mo-5V-3Cr	65-150	.0015-.0030		2	1	YES	2	1
H	38 thru 39	Hardened Steel >48	A2, O1, D2	150-400	.0015-.0030		1	2	NO	1	

Note: Feed and speed recommendations are starting operating parameters. They are only guidelines from which further optimization should take place. Operating parameters are influenced by many machining variables. These variables may cause for reductions in feeds and speed or dramatic increases. Additionally, DOC and WOC may need to be revised to optimize the tools performance.