DIPOSOTETRA 12 & 16

OPERATING GUIDELINES: SERIES ITJ1Q, TJ5Q/TJ6Q, 1TJ1N, TJ5N/TJ6N

Chip Thinning DC hmax ae

* Chip Thinning Calculator is recommended to ensure hmax is within fz range.

Materials				Vc	fz*	Harder Tougher								
ISO	Mat'l Group #VDI 3323	Туре	Examples	Cutting Speed SFM	Feed/Tooth (inch)	IN10K	IN2510	IN6515	IN2540	IN2505	IN4030 IN2530 IN2030	IN4035	IN6537	Coolant
P	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	400-1000	.003008									
	6 thru 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	350-700					4	3	2		1	No
	10, 11	High-alloy Steel	H13, A2, D2, M2, T1	300-600										
M	12 thru 13	Stainless Steel (Ferritic & Martensitic)	410, 416, 440	400-700	.003008				4		1	2		May not be required at high speeds
	14	Stainless Steel (Austenitic)	303, 304, 316, 15-5, 17-4	300-600						3				
K	15 thru 16	Gray Cast Iron	CLS. 20, 30, 45	500-1000	.003008		1	2		3				No
	17 thru 20	Nodular Cast Iron	60-40-18, 100-70-03	400-800	.003007		2	1		3				
N	21 - 30	Aluminum	7075, 6061	1000-3000	.003009	1								Yes
S	31 thru 35	High-Temp Alloys	Inconel, Hastelloy, Nimonic, Monel	75-120	.003006					2	3	1		v
	36 thru 37	Titanium Alloys	6Al-4V, 5Al-5Mo-5V-3Cr	100-150	.003007					3	2	1		Yes

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.