

CHIPOSURFER® OPERATING GUIDELINES: 45R/47R

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

Materials				Vc Cutting Second	fz*	Contant
ISO	Mat'l Group #VDI 3323	Туре	Examples	Cutting Speed SFM	Feed/Tooth (inch)	Coolant
Р	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	450-800	.002006	No
	6 thru 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	400-750	.002005	
	10, 11	High-alloy Steel	H13, A2, D2, M2, T1	400-700	.002005	
Μ	12 thru 14	Stainless Steel	410, 416, 440, 303, 304, 316, 15-5, 17-4	200-500	.002005	May not be required at high speeds
Κ	15 thru 18	Iron	CLS. 20, 30, 45, 60-40-18, 100-70-03	500-800	.002006	No
S	31 thru 37	High-Temp, Ti	Inconel, Hastelloy, 6Al-4V, 5Al-5Mo-5V-3Cr	65-250	.002005	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.

