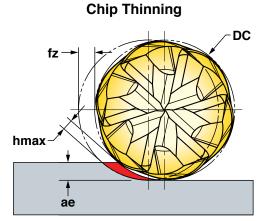


## OPERATING GUIDELINES BARREL FORM





 $\mbox{\ensuremath{^{\star}}}$  Chip Thinning Calculator is recommended to ensure hmax is in range.

Materials				Cutting	DC Cutting	fz Feed per	<b>ae</b> Radial	<b>ap</b> Axial	hmax* Chip	Carlons
ISO	Mat'l Group #VDI 3323	Туре	Examples	Speed SFM	<b>Dia.</b> (inch/mm)	Tooth (inch)	Depth of Cut	Depth of Cut	Thickness (inch)	Coolant
P	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	450-650	.500 / 12	.00200040	.008016	.0306	.00080030	No
					.625 / 16	.00200050	.008020	.0408	.00080040	
	6 thru 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	450-650	.500 / 12	.00200040	.008016	.0306	.00080030	
					.625 / 16	.00200050	.008020	.0408	.00080040	
	10, 11	High-alloy Steel	H13, A2, D2, M2, T1	400-600	.500 / 12	.00150030	.008016	.0306	.00080025	
					.625 / 16	.00200040	.008020	.0408	.00080035	
B.4	12 thru 14	Stainless Steel	410, 416, 440, 303, 304, 316, 15-5, 17-4	200-350	.500 / 12	.00150030	.008016	.0306	.00080025	required at
M					.625 / 16	.00200040	.008020	.0408	.00080035	
1/	15 thru 20	Iron	CLS. 20, 30, 45, 60-40- 18, 100-70-03	500-700	.500 / 12	.00200040	.008016	.0306	.00080030	No
K					.625 / 16	.00200050	.008020	.0408	.00080040	
C	31 thru 37	High-Temp, Ti	Inconel, Hastelloy, 6Al- 4V, 5Al-5Mo-5V-3Cr	80-250	.500 / 12	.00100025	.008016	.0306	.00080025	Yes
S					.625 / 16	.00200030	.008020	.0408	.00080035	

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.

