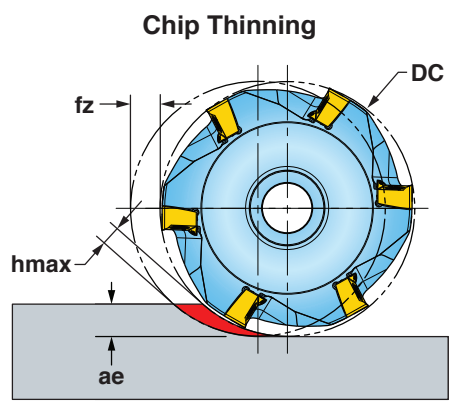




**HIPOST™ OPERATING GUIDELINES: SERIES 22J3G & 22J5G**

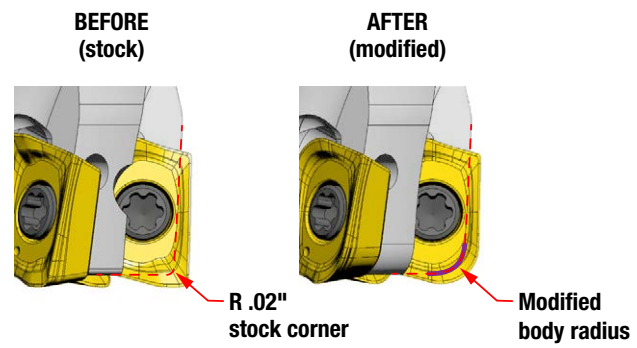


\* When ae is less than 25% DC, recommend use of Chip Thinning Calculator to ensure hmax falls within fz range.

ISO	Materials			V <sub>c</sub> Cutting Speed SFM	f <sub>z</sub> Feed/Tooth (inch)	Harder <-----> Tougher								Coolant	
	Mat'l Group #VDI 3323	Type	Examples			IN2540	IN10K	IN2510	IN2505	IN2005	IN4030	IN2530	IN1030		IN7035
P	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	300-600	.003-.006	4			3	2				1	NO
	6 thru 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	250-500											
	10, 11	High-alloy Steel	H13, A2, D2, M2, T1	250-450											
M	12 thru 13	Stainless Steel (Ferritic & Martensitic)	410, 416, 440	300-500	.003-.005	5			4	3	2	1		YES	
	14	Stainless Steel (Austenitic)	303, 304, 316, 15-5, 17-4	250-450											May not be required at high speeds
K	15 thru 16	Gray Cast Iron	CLS. 20, 30, 45	300-600	.003-.006			1	2						NO
	17 thru 20	Nodular Cast Iron	60-40-18, 100-70-03	300-500											
N	21 thru 30	Aluminum	7075, 6061	800-1500	.003-.007		1								YES
S	31 thru 35	High-Temp Alloys	Inconel, Hastelloy, Nimonic, Monel	50-120	.003-.005				3	4	2	1		YES	
	36 thru 37	Titanium Alloys	6AL-4V, 5Al-5Mo-5V-3Cr	60-130											4

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.

**HIPOST™ CUTTER BODY MODIFICATION FOR LARGE RADIUS INSERTS**



Insert Size	Modify Cutter Body If Insert Radius Exceeds	Insert Radius	Modified Body Radius
17mm	.093"	0.125	0.110
		0.156	0.110
		0.187	0.110
		0.250	0.200

When using an insert radius larger than indicated per Insert IC, be sure the cutter body does not protrude beyond the trailing edge of the insert. If it does, the housing corner can be modified on a lathe or grinder by enlarging the corner radius.