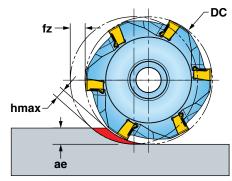




OPERATING GUIDELINES: SERIES 22J3G & 22J5G

Chip Thinning



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

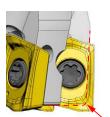
	Materials			V _C	f _z	Harder <> Tougher							
ISO	Mat'l Group #VDI 3323	Туре	Examples	Cutting Speed SFM	Feed/Tooth (inch)	IN2540	IN10K	IN2510	IN2505 IN2005	IN4030 IN2530 IN1030	IN7035 IN2035	IN6537	Coolant
	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	300-600									
P	6 thru 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	250-500	.003006	4			3	2		1	NO
	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	.003005	4			3	2	1		YES
	14	Stainless Steel (Austenitic)	303, 304, 316, 15-5, 17-4	250-450					3				May not be required at high speeds
V	15 thru 16	Gray Cast Iron	CLS. 20, 30, 45	300-600	.003006			1	2				NO
K	17 thru 20	Nodular Cast Iron	60-40-18, 100-70-03	300-500									
N	21 thru 30	Aluminum	7075, 6061	800-1500	.003007		1						YES
C	31 thru 35	High-Temp Alloys	Inconel, Hastelloy, Nimonic, Monel	50-120	.003005				2	3	1		YES
S	36 thru 37	Titanium Alloys	6AL-4V, 5Al-5Mo-5V-3Cr	60-130					3	2	1		163

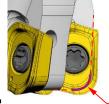
Note: Feed and speed recommendations are starting operating parameters. They are only guidelines from which further optimization should take place. Operating parameters are influenced by many machining variables. These variables may cause for reductions in feeds and speed or dramatic increases. Additionally,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

CUTTER BODY MODIFICATION FOR LARGE RADIUS INSERTS

BEFORE (stock)

AFTER (modified)





R .02" Modified stock corner body radius

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

