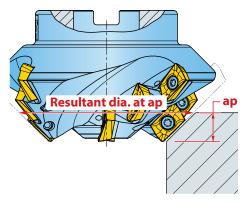


## Hopost

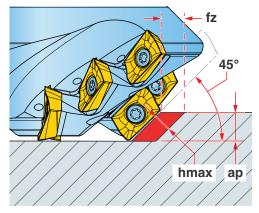
## **OPERATING GUIDELINES - SERIES 22\_3R**

## **RPM Calculation**



Calculation is to be made using the resultant diameter at ap.

## **Chip Thinning**



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

Materials				Vc	f <sub>z</sub>	Harder <> Tougher					
ISO	Mat'l Group #VDI 3323	Туре	Examples	Cutting Speed SFM	Feed/Tooth (inch)	IN2504	IN10K	IN2505	IN4030 IN2530	IN6535 IN2035	Coolant
P	1 thru 5	Non-alloy Steel	1018, A36, 1045, A572, 1070	300-600	.003006	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	.003005			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	.003006	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	.003007		1				YES
S	31 thru 35	High-Temp Alloys	Inconel, Hastelloy, Nimonic, Monel	50-120	.003005			2	3	1	YES
	36 thru 37	Titanium Alloys	6AL-4V, 5Al-5Mo-5V-3Cr	60-130				3	2	1	152

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.

