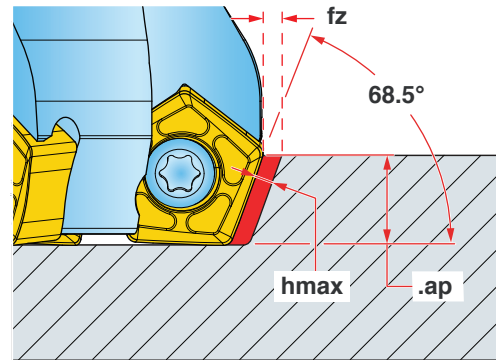


OPERATING GUIDELINES - 5MM INSERT (DM5E, DM6E, 1DM1E)

Chip Thinning



* Chip Thinning Calculator is recommended to ensure h_{max} is greater than .003"

ISO	Mat'l Group	Materials		Vc Cutting Speed SFM	fz Feed/Tooth (inch)	Harder ← → Tougher				Coolant
		Type	Examples			IN10K	IN2505	IN2530	IN2035	
P	1-5	Non-alloy Steel	1018, A36, 1045, A572, 1070	400-800	.003-.010					No
	6-9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	350-700	.003-.008		1	2		
	10-11	High-alloy Steel	H13, A2, D2, M2, T1	300-600	.0003					
M	12-13	Stainless Steel (Ferritic & Martensitic)	410, 416, 440	350-600	.003-.008				1	Yes
	14	Stainless Steel (Austenitic)	303, 304, 316, 15-5, 17-4	300-550					1	May not be required at high speeds
K	15-16	Gray Cast Iron	CLS. 20, 30, 45	500-1000	.003-.010		1			No
	17-20	Nodular Cast Iron	60-40-18, 100-70-03	400-800	.003-.008		1			
N	21-30	Aluminum	7075, 6061	1000-2500	.002-.012	1				Yes
S	31-35	High-Temp Alloys	Inconel, Hastelloy, Nimonic, Monel	65-200	.003-.005		2	3	1	Yes
	36-37	Titanium Alloys	6Al-4V, 5Al-5Mo-5V-3Cr	85-200			3	2	1	

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.