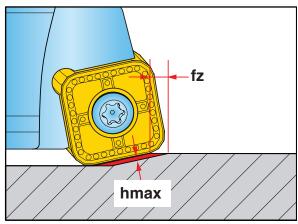


■ 『こうこうしゅう 1DD1H & DD6H OPERATING GUIDELINES



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

Materials				Vc	fz*	ap Rec. Axial	Harder <> Tougher								
ISO	Mat'l Group #VDI 3323	Туре	Examples	Cutting Speed SFM	Feed/Tooth (inch)	Rec. Axial Depth of Cut (inch)	IN71N	IN2540	IN10K	IN2510	IN4015	IN2505	IN2530 IN4030	IN2035	Coolant
P	1-5	Non-alloy Steel	1018, A36, 1045, A572, 1070	400-1000	.014060	.008065						2	1		No
	6 - 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	350-700				3							
	10 - 11	High-alloy Steel	H13, A2, D2, M2, T1	300-600											
M	12 - 13	Stainless Steel (Ferritic & Martensitic)	410, 416, 440	400-700	.014050	.008065		4				3	2	1	May not be required at high speeds
	14	Stainless Steel (Austenitic)	303, 304, 316, 15-5, 17-4	300-600											
K	15 - 16	Gray Cast Iron	CLS. 20, 30, 45	500-1000	.014060	.008065				1	2	3	4		No
				1800-3000	.004035	.008065	1								
	17 - 20	Nodular Cast Iron	60-40-18, 100-70-03	400-800	.014055	.008065				2	1	3	4		No
				1500-2500	.014030	.008065	1								
N	21 - 30	Aluminum	7075, 6061	1000-3000	.014060	.008065			1	2					Yes
S	31 - 35	High-Temp Alloys	Inconel, Hastelloy, Nimonic, Monel	75-120	.014040	.008065						3	2	1	Voc
	36 - 37	Titanium Alloys	6Al-4V, 5Al-5Mo-5V-3Cr	100-150	.014040	.008065						2	3	1	Yes

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.

