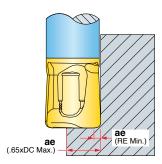
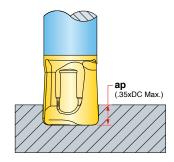


OPERATING GUIDELINES: 45V/45V-P • PLUNGE MILL

When plunge milling, radial stepovers (ae) may range from RE (minimum) to .65 x DC (maximum).



When spotfacing (full diameter), depth of cut (ap) should not exceed .35 x DC.



*Feed / Rev is based on Two-Effective (do not double).

Materials				Plunge Mill	Spotface	DC	f*	
ISO	Mat'l Group #VDI 3323	Туре	Examples	Vc Cutting Speed SFM	Cutting Speed SFM	Cutting Dia. (inch)	Feed/Rev (inch)	Coolant
						0.312	.004008	
P	1-5	Non-alloy Steel	1018, A36, 1045, A572, 1070	450-700	170-450	0.312	.004008	No
						0.575	.004009	
						0.625	.006012	
	6 - 9	Low-alloy Steel	4140, 4340, P20, 8620, 300M	400-650	140-350		.004012	
						0.312 0.375	.004008	
						0.500	.004009	
						0.625 0.312	.006012 .004007	
	10 - 11	High-alloy Steel	H13, A2, D2, M2, T1	400-600	130-300			
						0.375	.004008	
						0.500	.005009	
						0.625	.005010	
M	12 - 14	Stainless Steel	410, 416, 440, 303, 304, 316, 15-5, 17-4	200-450	100-230	0.312	.004006	May be required at high speeds
						0.375	.005007	
						0.500	.006008	
						0.625	.006009	
K	15 - 18	Iron	CLS. 20, 30, 45, 60-40-18, 100-70-03	500-800	265-550	0.312	.004010	No
						0.375	.004011	
						0.500	.005012	
						0.625	.005013	
N	21 - 30	Non Ferrous & Non Metallic	7075, 6061, Duroplastics	800-3000	265-725	0.312	.004010	Yes
						0.375	.005011	
						0.500	.006012	
						0.625	.007013	
S	31 - 37	High-Temp, Ti	Inconel, Hastelloy, 6Al-4V, 5Al-5Mo-5V-3Cr	65-250	70-165	0.312	.002004	Yes
						0.375	.003005	
						0.500	.004006	
						0.625	.005007	

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.

