

150120, 150320 (6 Flute Extra Length, 45° Helix)



MATERIAL GROUP	HRc		Size (mm)						
			6.0	8.0	10.0	12.0	16.0	20.0	25.0
P	11 12 13 14	< 40	v _e (m/min)	40	40	40	40	40	40
			n	2230	1670	1330	1110	840	670
			f _z	0.035	0.045	0.055	0.06	0.065	0.07
			f (mm/min)	470	450	440	400	33	280
H	15 16	40-50	v _e (m/min)	30	30	30	30	30	30
			n	1670	1250	1000	840	630	500
			f _z	0.035	0.044	0.05	0.054	0.061	0.067
			f (mm/min)	360	330	300	270	230	200
	15 16	50-60	v _e (m/min)	25	25	25	25	25	25
			n	1390	1050	840	690	530	420
			f _z	0.03	0.038	0.046	0.051	0.053	0.06
			f (mm/min)	260	240	230	210	170	150
	15 16	60-65	v _e (m/min)	20	20	20	20	20	20
			n	1110	840	680	580	420	320
			f _z	0.03	0.036	0.039	0.045	0.052	0.063
			f (mm/min)	200	180	160	150	130	120

v_e - cutting speed (m/min)

n - RPM (rev/min)

f_z - feed rate (mm/tooth)

f - feed rate (mm/rev)

z - No. of teeth

a_p - axial depth of cuta_r - radial depth of cut

$$\text{To calculate RPM from cutting speed: } n = \frac{v_e \times 1000}{\pi \times \phi}$$

$$\text{To calculate cutting speed from RPM: } v_e = \frac{n \times \pi \times \phi}{1000}$$

All recommendations are based on ideal machining conditions. Adjustments may need to be made according to your set-up. The recommendations for speeds, feeds and other parameters presented in this chart are nominal recommendations and should be considered only as good starting points.