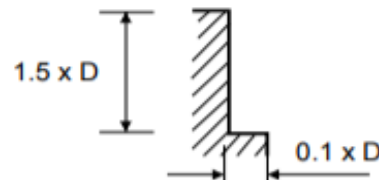


HSS-E 3 FLUTE COATED (103121, 104121, 105121, 128121, 129121)



MATERIAL GROUP	HRc		SIZE (MM)														
			2	3	4	5	6	8	10	12	14	16	18	20	22	25	
P	≤20	Vc (M/MIN)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
		n	4500	3200	2200	1800	1600	1100	900	800	700	560	500	450	450	450	450
		Fz	0.003	0.006	0.011	0.018	0.023	0.036	0.044	0.056	0.057	0.071	0.08	0.089	0.089	0.089	0.092
		F(MM/MIN)	40	60	75	95	110	120	120	135	120	120	120	120	120	120	110
	20 - 30	Vc (M/MIN)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
		n	4000	2500	1800	1600	1200	900	800	630	560	450	400	400	350	310	310
		Fz	0.003	0.006	0.008	0.014	0.018	0.03	0.038	0.048	0.054	0.059	0.067	0.067	0.067	0.076	0.07
		F(MM/MIN)	35	45	50	65	65	80	90	90	90	80	80	80	80	80	65
	30 - 40	Vc (M/MIN)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		n	2200	1600	1100	900	800	560	450	400	350	280	250	220	220	180	180
		Fz	0.002	0.004	0.009	0.013	0.019	0.03	0.037	0.046	0.052	0.06	0.067	0.076	0.076	0.076	0.065
		F(MM/MIN)	15	20	30	35	45	50	50	55	55	50	50	50	50	50	35
N	Vc (M/MIN)	75	105	100	100	105	100	95	95	95	100	100	100	95	95	95	
	n	12000	11000	8000	6300	5600	4000	3100	2500	2200	2000	1800	1600	1400	1200	1200	
	Fz	0.005	0.008	0.014	0.019	0.021	0.037	0.048	0.057	0.061	0.067	0.074	0.075	0.081	0.089	0.089	
	F(MM/MIN)	180	280	330	350	350	440	450	430	400	400	400	400	360	340	320	

Key	
Vc	Cutting speed (m/min)
n	RPM (rev/min)
Fz	Feed rate (mm/tooth)
f	Feed rate (mm/rev)
HRc	Hardness of metal



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.

To calculate RPM from cutting speed: $n = \frac{v_c \cdot 1000}{\pi \cdot \phi}$

To calculate cutting speed from RPM: $v_c = \frac{n \cdot \pi \cdot \phi}{1000}$