



MATERIAL GROUP	HRc	HIGH SPEED	Size (mm)						
			6.0	8.0	10.0	12.0	16.0	20.0	
H	15 16	< 50	$v_c$ (m/min)	315	315	315	315	315	315
			$n$	16800	12600	9980	8400	6300	5040
			$f_z$	0.06	0.081	0.1	0.1	0.1	0.101
			$f$ (mm/min)	6090	6090	5990	5040	3780	3050
	15 16	50-60	$v_c$ (m/min)	160	160	160	160	160	160
			$n$	8400	6300	5040	4200	3160	2520
			$f_z$	0.061	0.081	0.101	0.1	0.1	0.097
			$f$ (mm/min)	3050	3050	3050	2520	1990	1470
	15 16	> 60	$v_c$ (m/min)	80	80	80	80	80	80
			$n$	4200	3160	2520	2100	1580	1260
			$f_z$	0.058	0.078	0.097	0.1	0.1	0.101
			$f$ (mm/min)	1470	1470	1470	1260	960	760

$v_c$  - 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 cut  
 $a_e$  - radial depth of cut

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

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

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.