



www.torchmate.com
 sales@torchmate.com
 Toll-free 1-866-571-1066

Milling Speeds

Below figures represent speed at which the outer edge of cutter is rotating in feet per minute								
Feet per minute	40	50	60	70	80	90	100	
Diameter in inches	RPM							Decimal equiv.
1/4	611	764	917	1070	1223	1376	1529	0.2500
5/16	489	611	733	855	977	1099	1221	0.3125
3/8	407	508	609	710	811	912	1013	0.3750
7/16	349	436	523	610	697	784	871	0.4375
1/2	306	383	460	537	614	691	768	0.5000
5/8	244	305	366	427	488	549	610	0.6250
3/4	203	253	303	353	403	453	503	0.7500
7/8	175	219	263	307	351	395	439	0.8750
1	153	191	229	267	305	343	381	1.0000
1 1/8	102	136	170	204	238	272	306	1.1250
1 1/4	122	152	182	212	242	272	302	1.2500
1 3/8	111	139	167	195	223	251	279	1.3750
1 1/2	102	128	154	180	206	232	258	1.5000
1 5/8	94	118	142	166	190	214	238	1.6250
1 3/4	87	109	131	153	175	197	219	1.7500
1 7/8	81	101	121	141	161	181	201	1.8750
2	76	95	114	133	152	171	190	2.0000
Cutting speeds in feet per minute for different materials								
Material	Cutter material				Coolant			
	High speed steel		Carbide tipped					
	Rough	Finish	Rough	Finish				
Cast Iron	50-60	80-110	180-200	350-400	Dry			
Cast steel	45-60	70-90	150-180	200-250	*			
Brass	200-300	200-300	600-1000	600-1000	Dry			
Bronze	100-150	150-180	600	1000	*			
Aluminum	400	700	800	1000	*			
Mild steel	60-80	60-80	300	300	*			
Stainless steel	100-120	100-120	240-300	240-300	*			
* Soluble oils, sulfurized oils, or mineral-lard oils								