




List 573: Regular Length, 2 Flute

List 574: Regular Length, Multiple Flute

Slotting


Hardness	-		<145 Brinell		<20 HRC		20-30 HRC		30-40 HRC	
Work Material	Aluminum Alloyed Aluminum Plastics Woods		Mild Steels Brass Bronze		Medium Tensile Steels Mild Steel Forgings Cast Iron Hard Brass and Bronze Copper		High Tensile Steels Unalloyed Titanium Heat Resistant Ferritic Low Alloys		High Tensile Steels Tool Steels Medium Strength Stainless Steels and Titanium Alloys	
Cutting Speed	250-350 SFM		80-100 SFM		50-65 SFM		35-45 SFM		20-30 SFM	
Depth of Cut	2 Flute: $a_a=0.5D$ 4 Flute: $a_a=0.25D$ 									
Mill Dia.	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min
1/8	9,170	9.2	2,750	3.1	1,760	4.2	1,220	1.0	765	0.6
5/32	7,335	10.4	2,200	3.5	1,400	4.8	980	1.1	610	0.6
3/16	6,110	11.6	1,830	4.0	1,170	5.5	815	1.3	510	0.7
1/4	4,585	12.1	1,375	4.4	880	5.9	610	1.4	380	0.8
5/16	3,670	14.0	1,100	4.9	700	6.7	490	1.5	300	0.8
3/8	3,055	12.9	915	4.8	585	6.5	410	1.5	255	0.8
7/16	2,620	13.9	785	5.3	500	7.1	350	1.7	220	0.9
1/2	2,290	13.8	690	5.2	440	6.7	305	1.6	190	0.9
9/16	2,040	12.8	610	4.9	390	6.6	270	1.6	170	1.0
5/8	1,835	12.3	550	4.6	350	6.2	245	1.6	150	1.0
11/16	1,670	12.5	500	4.8	320	5.7	220	1.6	140	1.0
3/4	1,530	11.5	460	4.4	295	5.2	200	1.5	130	0.9
13/16	1,410	11.2	425	4.2	270	4.8	190	1.5	120	1.0
7/8	1,310	11.1	395	4.1	250	4.4	175	1.4	110	0.9
15/16	1,220	11.0	365	4.1	235	4.2	165	1.3	100	0.8
1	1,150	10.3	345	3.9	220	4.0	155	1.2	95	0.7

1) Based on regular 4FL end mills cutting depth (1.5D) x cutting width (0.1D).
 2) For 2FL end mill, decrease feed 50%.
 3) For finish, increase RPM 1.3 to 1.5 times.



List 574: Regular Length, Multiple Flute (Continued)

Side Milling

Hardness	-		<145 Brinell		<20 HRC		20-30 HRC		30-40 HRC	
Work Material	Aluminum Alloyed Aluminum Plastics Woods		Mild Steels Brass Bronze		Medium Tensile Steels Mild Steel Forgings Cast Iron Hard Brass and Bronze Copper		High Tensile Steels Unalloyed Titanium Heat Resistant Ferritic Low Alloys		High Tensile Steels Tool Steels Medium Strength Stainless Steels and Titanium Alloys	
Cutting Speed	325-590 SFM		130-165 SFM		105-125 SFM		65-80 SFM		30-50 SFM	
Depth of Cut	$a_a = 1.5D$ $a_r = 0.1D$ 									
Mill Dia.	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min
1/8	13,980	28.0	4,500	10.1	3,550	7.1	2,240	3.6	1,250	1.6
5/32	11,185	31.8	3,550	11.4	2,800	8.0	1,800	4.0	1,000	1.9
3/16	9,320	35.4	2,800	12.4	2,240	9.0	1,400	4.5	800	2.1
1/4	6,990	36.9	2,240	14.4	1,800	10.1	1,120	5.0	630	2.4
5/16	5,590	42.5	1,800	16.1	1,400	11.3	900	5.8	500	2.6
3/8	4,660	39.5	1,600	17.0	1,250	11.8	800	6.1	450	2.9
7/16	3,995	42.4	1,250	16.8	1,000	12.0	630	6.3	355	3.0
1/2	3,495	41.9	1,120	16.8	900	11.4	560	5.9	315	3.0
9/16	3,100	39.2	1,000	16.0	800	11.4	500	6.0	280	3.1
5/8	2,795	37.5	900	15.3	710	10.6	450	6.0	250	3.1
11/16	2,540	38.1	800	15.3	630	9.5	400	5.6	224	3.1
3/4	2,330	35.0	800	15.3	630	9.5	400	5.6	224	3.1
13/16	2,150	34.4	710	14.3	560	8.4	355	5.6	200	3.3
7/8	2,000	34.0	630	13.4	500	7.5	315	5.0	180	2.9
15/16	1,865	33.6	560	12.5	450	6.8	280	4.5	160	2.5
1	1,750	31.5	560	12.5	450	6.8	280	4.5	160	2.5

- 1) Based on regular 4FL end mills cutting depth (1.5D) x cutting width (0.1D).
- 2) For 2FL end mill, decrease feed 50%.
- 3) For finish, increase RPM 1.3 to 1.5 times.