




List 581: Regular Length - Multiple Flute - Center Hole

Side Milling

Hardness	<145 Brinell		<20 HRC		20-30 HRC		30-40 HRC		40-50 HRC		-	
Work Material	Mild Steels Hard Brass Bronze Cast Iron		Med. Carbon Steels Med. Strength Titanium Alloys Med. Strength Stainless Steels		High Carbon Steel Titanium Alloys High Strength Stainless Steels		Heat Resistant High Alloys Austenitic Alloys Nickel Base Alloys		Heat Resistant High Alloys High Strength Stainless Steels Titanium Alloys		Aluminum Aluminum Alloys	
Cutting Speed	130-165 SFM		105-125 SFM		65-85 SFM		30-50 SFM		16-32 SFM		450-590 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	Speed RPM	Feed in/min
3	4,770	8.8	4,000	7.5	2,425	3.4	1,295	1.5	800	0.8	16,820	29.4
4	3,580	11.3	2,800	8.8	1,820	4.0	970	1.8	630	0.9	12,615	35.7
5	2,860	12.6	2,240	9.8	1,455	4.5	775	2.1	500	1.0	10,090	39.8
6	2,385	12.6	2,000	10.4	1,210	4.5	650	2.0	400	1.1	8,410	36.8
8	1,790	15.7	1,400	12.4	910	5.6	485	2.6	315	1.3	6,300	46.6
10	1,430	17.8	1,120	14.0	730	6.5	390	2.8	280	1.4	5,045	49.6
12	1,190	17.9	900	13.2	600	6.4	325	3.0	200	1.5	4,200	48.9
14	1,020	16.1	800	12.4	520	6.2	280	3.1	180	1.5	3,600	44.8
16	895	14.8	710	11.8	455	6.0	240	3.0	160	1.4	3,150	41.7
18	795	14.7	630	11.0	400	5.6	215	3.0	140	1.4	2,800	41.7
20	715	14.1	560	9.8	365	5.7	195	3.0	140	1.4	2,520	39.8
22	650	13.6	500	8.8	330	5.1	175	2.7	112	1.4	2,295	38.4
24	600	13.1	450	7.9	300	4.6	160	2.5	100	1.4	2,100	36.8
25	575	12.6	450	7.9	290	4.5	155	2.4	100	1.4	2,020	35.3
26	550	12.1	450	7.9	280	4.3	150	2.3	90	1.5	1,940	34.0
28	510	11.4	400	7.1	260	4.1	140	2.2	80	1.3	180	33.2
30	480	10.6	400	7.1	240	3.8	130	2.0	71	1.1	1,680	31.0
32	450	9.6	355	6.3	230	3.6	120	1.9	71	1.1	1,575	29.7
35	410	9.4	315	5.5	210	3.2	110	1.8	63	1.0	1,440	28.6
36	400	9.2	315	5.5	200	3.1	105	1.7	63	1.0	1,400	27.8
40	360	8.9	280	4.9	180	2.9	100	1.6	56	1.4	1,260	24.8
45	320	9.3	250	5.5	160	3.1	85	1.7	56	1.4	1,120	27.8
50	285	8.4	224	4.9	145	2.9	80	1.6	50	1.3	1,010	24.7

ABOUT OSG

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