


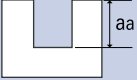


## List 2015: Regular Length, 4 Flute, Roughing

### Side Milling

Hardness	35-45 HRC		45-55 HRC		<40 HRC		>40 HRC		-	
Work Material	Stainless Steel		Stainless Steel		Titanium		Titanium		Inconel, Waspaloy, Hastelloy	
Cutting Speed	450-490 SFM		310-350 SFM		210-240 SFM		150-165 SFM		80-90 SFM	
Depth of Cut	$a_a=1.5D$ $a_r=0.4D$ 		$a_a=1.5D$ $a_r=0.33D$				$a_a=1.5D$ $a_r=0.25D$		$a_a=1.0D$ $a_r=0.20D$	
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
1/4	7,181	28.7	5,040	16.1	3,440	22.0	2,408	12.5	1,300	3.1
3/8	4,788	30.6	3,360	17.5	2,294	19.3	1,605	11.6	867	3.5
1/2	3,590	30.2	2,520	16.1	1,720	17.8	1,204	11.1	650	3.1
5/8	2,873	29.9	2,016	16.9	1,376	19.8	963	11.9	520	3.3
3/4	2,394	32.6	1,680	17.5	1,147	18.4	802	12.5	433	3.5
1	1,795	25.8	1,260	14.6	860	14.8	602	9.6	325	2.9

### Slotting

Hardness	35-45 HRC		45-55 HRC		<40 HRC		>40 HRC		-	
Work Material	Stainless Steel		Stainless Steel		Titanium		Titanium		Inconel, Waspaloy, Hastelloy	
Cutting Speed	450-490 SFM		310-350 SFM		210-240 SFM		150-165 SFM		80-90 SFM	
Depth of Cut	$a_a=0.5D$ 				$a_a=0.3D$		$a_a=0.25D$			
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
1/4	7,181	23.0	5,040	12.9	3,440	17.6	2,408	10.0	1,300	2.5
3/8	4,788	24.5	3,360	14.0	2,294	15.4	1,605	9.3	867	2.8
1/2	3,590	24.2	2,520	12.9	1,720	14.3	1,204	8.9	650	2.5
5/8	2,873	23.9	2,016	13.5	1,376	15.9	963	9.5	520	2.7
3/4	2,394	26.0	1,680	14.0	1,147	14.7	802	10.0	433	2.8
1	1,795	20.7	1,260	11.7	860	11.8	602	7.7	325	2.5

