



List 4592: Corner Radius, Stub Length, 2 Flute, Long Neck, Rib Processing

Standard Milling

Hardness									<45 HRC	45-55 HRC	55-65 HRC			
Work Material									Hardened Steels Pre-hardened Steels (SDK61, H13, NAK80, P21)	Hardened Steels Pre-hardened Steels (SDK61, H13, STAVAX, 420F)	Hardened Steels			
Depth of Cut									%s of DOC's suggested on the left					
	aa (in)								aa=120% ar=120%	aa=100% ar=100%	aa=60% ar=80%			
Dia.	L1	R0.05	R0.1	R0.2	R0.3	R0.5	R1	ar (in)	Speed RPM	Feed in/min	Speed RPM	Feed in/min	Speed RPM	Feed in/min
0.4	1	0.00028	—	—	—	—	—	0.0047	25,000	14.0	25,000	14.0	19,800	11.1
	1.5	0.00028	—	—	—	—	—	0.0047	25,000	14.0	25,000	14.0	19,800	11.1
	2	0.00020	0.00031	—	—	—	—	0.0040	25,000	10.0	25,000	10.0	19,800	7.9
	3	0.00008	0.00012	—	—	—	—	0.0030	25,000	4.0	23,100	3.7	18,700	3.0
	4	0.00004	0.00008	—	—	—	—	0.0014	22,000	1.8	22,000	1.8	18,700	1.5
0.5	1	0.00028	0.00039	—	—	—	—	0.0059	25,000	14.0	25,000	14.0	18,700	10.5
	2	0.00028	0.00039	—	—	—	—	0.0059	25,000	14.0	25,000	14.0	18,700	10.5
	3	0.00012	0.00020	—	—	—	—	0.0041	25,000	6.0	24,200	5.8	17,600	4.2
	4	0.00008	0.00012	—	—	—	—	0.0004	25,000	4.0	23,100	3.7	17,050	2.7
	5	0.00004	0.00008	—	—	—	—	0.0018	24,200	1.9	22,550	1.8	16,500	1.3
	6	0.00004	0.00004	—	—	—	—	0.0012	22,000	1.8	22,000	1.8	16,500	1.3
0.6	2	—	0.00047	—	—	—	—	0.0071	25,000	23.5	25,000	23.5	17,600	16.5
	4	—	0.00020	—	—	—	—	0.0048	25,000	10.0	22,000	8.8	16,500	6.6
	6	—	0.00008	—	—	—	—	0.0021	22,000	3.5	20,900	3.3	15,400	2.5
0.8	4	—	0.00063	0.0013	—	—	—	0.0094	25,000	65.0	22,000	57.2	15,400	40.0
	6	—	0.00028	0.0006	—	—	—	0.0094	23,100	27.7	19,800	23.8	14,850	17.8
	8	—	—	0.0003	—	—	—	0.0085	19,800	11.9	18,700	11.2	14,300	8.6
1.0	4	0.00039	0.00079	0.0016	0.0020	—	—	0.0118	24,200	77.4	22,000	70.4	13,200	42.2
	6	0.00020	0.00039	0.0008	0.0010	—	—	0.0083	22,000	35.2	18,700	29.9	13,200	21.1
	8	0.00012	0.00024	0.0005	0.0006	—	—	0.0071	17,600	17.6	16,500	16.5	12,650	12.7
	10	0.00008	0.00016	0.0003	0.0004	—	—	0.0035	16,500	9.9	15,400	9.2	12,100	7.3
	12	0.00004	0.00012	0.0002	0.0003	—	—	0.0024	16,500	6.6	14,300	5.7	12,100	4.8
	16	—	—	0.0002	—	—	—	0.0012	13,200	5.3	13,200	5.3	11,550	4.6
	20	—	—	0.0001	—	—	—	0.0009	11,000	2.2	11,000	2.2	11,000	2.2
1.2	6	—	—	0.0013	0.0016	—	—	0.0142	18,700	48.6	15,400	40.0	11,000	28.6
	8	—	—	0.0007	0.0009	—	—	0.0099	15,400	21.6	13,200	18.5	11,000	15.4
	10	—	—	0.0004	0.0006	—	—	0.0085	15,400	12.3	13,200	10.6	9,900	7.9
1.5	6	—	—	0.0016	0.0024	—	—	0.0177	15,400	49.3	13,200	42.2	8,800	28.2
	8	—	—	0.0010	0.0015	—	—	0.0150	13,200	26.4	11,000	22.0	7,700	15.4
	10	—	—	0.0007	0.0011	—	—	0.0115	13,200	18.5	11,000	15.4	7,700	10.8
	12	—	—	0.0005	0.0007	—	—	0.0106	13,200	13.2	11,000	11.0	7,150	7.2
	16	—	—	0.0003	0.0004	—	—	0.0044	11,000	6.6	9,900	5.9	6,600	4.0
2.0	8	—	0.00079	0.0016	0.0024	0.0030	—	0.0236	12,100	38.7	9,900	31.7	6,600	21.1
	10	—	0.00063	0.0013	0.0019	0.0024	—	0.0201	9,900	25.7	7,700	20.0	6,600	17.2
	12	—	0.00039	0.0008	0.0012	0.0015	—	0.0165	9,900	15.8	7,700	12.3	6,600	10.6
	16	—	0.00024	0.0005	0.0007	0.0009	—	0.0142	9,900	9.9	7,700	7.7	6,050	6.1
	20	—	0.00016	0.0003	0.0005	0.0006	—	0.0071	7,700	4.6	7,150	4.3	5,500	3.3
2.5	25	—	0.00008	0.0002	0.0003	0.0004	—	0.0047	7,700	3.1	6,600	2.6	4,950	2.0
	10	—	—	0.0016	—	0.0030	—	0.0295	9,900	31.7	8,800	28.2	5,500	17.6
	20	—	—	0.0008	—	0.0015	—	0.0177	7,700	12.3	6,600	10.6	4,950	7.9
3.0	30	—	—	0.0002	—	0.0004	—	0.0059	6,600	2.6	5,500	2.2	4,400	1.8
	8	—	—	0.0016	—	—	—	0.0354	8,800	28.2	7,700	24.6	5,500	17.6
	12	—	—	0.0016	0.0024	0.0030	—	0.0354	8,800	28.2	7,700	24.6	5,500	17.6
	16	—	—	0.0011	0.0017	0.0020	—	0.0283	6,600	14.5	6,600	14.5	5,500	12.1
	20	—	—	0.0007	0.0011	0.0013	—	0.0241	6,600	9.2	6,600	9.2	5,500	7.7
	25	—	—	0.0005	0.0007	0.0009	—	0.0213	6,600	6.6	6,600	6.6	4,950	5.0
	30	—	—	0.0003	0.0005	0.0006	—	0.0106	5,500	3.3	5,500	3.3	4,400	2.6
4.0	35	—	—	0.0002	0.0004	0.0004	—	0.0071	5,500	2.2	4,950	2.0	4,400	1.8
	16	—	—	0.0016	0.0024	0.0030	0.0047	0.0472	6,600	21.1	4,950	15.8	4,400	14.1
	20	—	—	0.0013	0.0019	0.0024	0.0079	0.0402	5,500	14.3	4,400	11.4	4,400	11.4
	25	—	—	0.0008	0.0012	0.0015	0.0024	0.0321	5,500	8.8	4,400	7.0	4,400	7.0
	30	—	—	0.0006	0.0008	0.0010	0.0016	0.0293	5,500	6.6	4,400	5.3	4,400	5.3
	40	—	—	0.0003	0.0005	0.0006	0.0009	0.0142	4,400	2.6	4,400	2.6	4,400	2.6
50	—	—	0.0002	0.0003	0.0004	0.0006	0.0085	4,400	1.8	4,400	1.8	3,850	1.5	

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