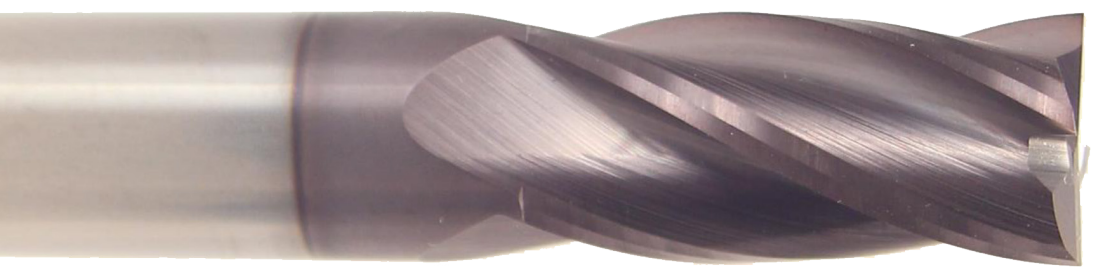
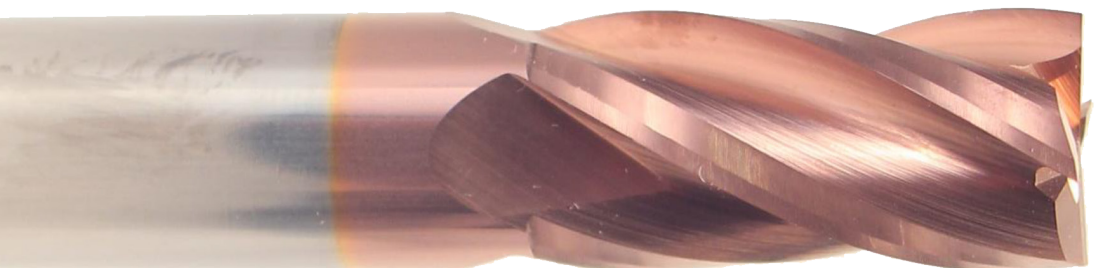
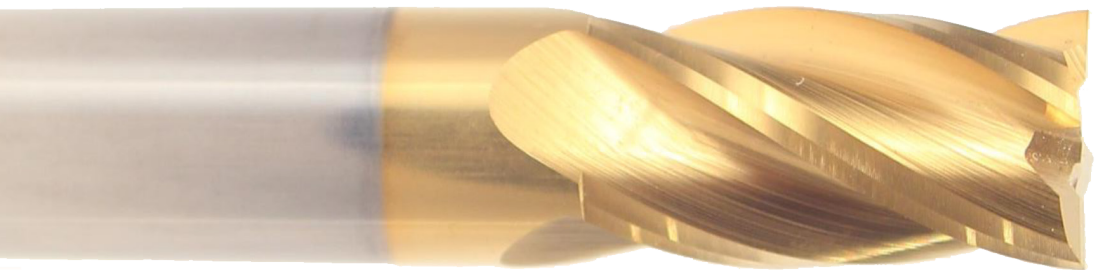


HTG - END MILLS



SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

UNCOATED



	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8	1/64"	1/16"	1-1/2"	120-2015	120-3015	120-4015	\$11.20
	1/32"	3/32"	1-1/2"	120-2031	120-3031	120-4031	\$6.00
	3/64"	1/8"	1-1/2"	120-2046	120-3046	120-4046	\$6.00
	1/16"	3/16"	1-1/2"	120-2062	120-3062	120-4062	\$4.80
	5/64"	1/4"	1-1/2"	120-2078	120-3078	120-4078	\$4.50
	3/32"	3/8"	1-1/2"	120-2093	120-3093	120-4093	\$4.20
	7/64"	3/8"	1-1/2"	120-2109	120-3109	120-4109	\$4.20
	1/8"	1/2"	1-1/2"	120-2125	120-3125	120-4125	\$4.00
3/16	9/64"	9/16"	2"	120-2140	120-3140	120-4140	\$9.30
	5/32"	9/16"	2"	120-2156	120-3156	120-4156	\$8.90
	11/64"	9/16"	2"	120-2171	120-3171	120-4171	\$9.30
	3/16"	5/8"	2"	120-2187	120-3187	120-4187	\$8.60
1/4	13/64"	5/8"	2-1/2"	120-2203	120-3203	120-4203	\$11.78
	7/32"	5/8"	2-1/2"	120-2218	120-3218	120-4218	\$10.40
	15/64"	3/4"	2-1/2"	120-2234	120-3234	120-4234	\$11.78
	1/4"	3/4"	2-1/2"	120-2250	120-3250	120-4250	\$8.50

	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
5/16	17/64"	7/8"	2-1/2"	120-2265	120-3265	120-4265	\$14.10
	9/32"	7/8"	2-1/2"	120-2281	120-3281	120-4281	\$12.90
	19/64"	7/8"	2-1/2"	120-2296	120-3296	120-4296	\$14.10
	5/16"	7/8"	2-1/2"	120-2312	120-3312	120-4312	\$11.50
3/8	21/64"	7/8"	2-1/2"	120-2328	120-3328	120-4328	\$16.30
	11/32"	7/8"	2-1/2"	120-2343	120-3343	120-4343	\$15.00
	23/64"	7/8"	2-1/2"	120-2359	120-3359	120-4359	\$16.30
	3/8"	7/8"	2-1/2"	120-2375	120-3375	120-4375	\$14.60
7/16	25/64"	7/8"	2-1/2"	120-2390	120-3390	120-4390	\$25.50
	13/32"	7/8"	2-1/2"	120-2406	120-3406	120-4406	\$25.00
	27/64"	7/8"	2-1/2"	120-2421	120-3421	120-4421	\$24.00
	7/16"	1"	2-1/2"	120-2437	120-3437	120-4437	\$21.00
1/2	29/64"	1"	3"	120-2453	120-3453	120-4453	\$28.20
	15/32"	1"	3"	120-2468	120-3468	120-4468	\$27.50
	31/64"	1"	3"	120-2484	120-3484	120-4484	\$26.50
	1/2"	1"	3"	120-2500	120-3500	120-4500	\$25.00

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

UNCOATED



	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE			
9/16	33/64"	1-1/4"	3-1/2"	120-2515	120-3515	120-4515	\$56.30	7/8		
	17/32"	1-1/4"	3-1/2"	120-2531	120-3531	120-4531	\$55.90			
	35/64"	1-1/4"	3-1/2"	120-2546	120-3546	120-4546	\$53.00			
	9/16"	1-1/4"	3-1/2"	120-2562	120-3562	120-4562	\$49.00			
5/8	37/64"	1-1/4"	3-1/2"	120-2578	120-3578	120-4578	\$58.20		1"	
	19/32"	1-1/4"	3-1/2"	120-2593	120-3593	120-4593	\$56.00			
	39/64"	1-1/4"	3-1/2"	120-2609	120-3609	120-4609	\$54.00			
	5/8"	1-1/4"	3-1/2"	120-2625	120-3625	120-4625	\$51.00			
3/4	41/64"	1-1/2"	4"	120-2640	120-3640	120-4640	\$85.72			1"
	21/32"	1-1/2"	4"	120-2656	120-3656	120-4656	\$85.00			
	43/64"	1-1/2"	4"	120-2671	120-3671	120-4671	\$84.00			
	11/16"	1-1/2"	4"	120-2687	120-3687	120-4687	\$74.00			
	45/64"	1-1/2"	4"	120-2703	120-3703	120-4703	\$79.00			
	23/32"	1-1/2"	4"	120-2718	120-3718	120-4718	\$79.00			
	47/64"	1-1/2"	4"	120-2734	120-3734	120-4737	\$79.00			
	3/4"	1-1/2"	4"	120-2750	120-3750	120-4750	\$71.00			
1"	49/64"	1-1/2"	4"	120-2765	120-3765	120-4765	\$143.00	1"		
	25/32"	1-1/2"	4"	120-2781	120-3781	120-4781	\$143.00			
	51/64"	1-1/2"	4"	120-2796	120-3796	120-4796	\$143.00			
	13/16"	1-1/2"	4"	120-2812	120-3812	120-4812	\$143.00			
	53/64"	1-1/2"	4"	120-2828	120-3828	120-4828	\$138.60			
	27/32"	1-1/2"	4"	120-2843	120-3843	120-4843	\$138.60			
	55/64"	1-1/2"	4"	120-2859	120-3859	120-4859	\$138.60			
	7/8"	1-1/2"	4"	120-2875	120-3875	120-4875	\$126.00			
1"	57/64"	1-1/2"	4"	120-2890	120-3890	120-4890	\$147.20		1"	
	29/32"	1-1/2"	4"	120-2906	120-3906	120-4906	\$147.20			
	59/64"	1-1/2"	4"	120-2921	120-3921	120-4921	\$147.20			
	15/16"	1-1/2"	4"	120-2937	120-3937	120-4937	\$140.80			
	61/64"	1-1/2"	4"	120-2953	120-3953	120-4953	\$140.80			
	31/32"	1-1/2"	4"	120-2968	120-3968	120-4968	\$140.80			
	63/64"	1-1/2"	4"	120-2984	120-3984	120-4984	\$140.80			
	1"	1-1/2"	4"	120-2100	120-3100	120-4100	\$128.00			

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/64"	1/16"	1-1/2"	125-2015	125-3015	125-4015	\$7.30
1/32"	3/32"	1-1/2"	125-2031	125-3031	125-4031	\$6.90
3/64"	1/8"	1-1/2"	125-2046	125-3046	125-4046	\$6.90
1/16"	3/16"	1-1/2"	125-2062	125-3062	125-4062	\$5.70
5/64"	1/4"	1-1/2"	125-2078	125-3078	125-4078	\$5.08
3/32"	3/8"	1-1/2"	125-2093	125-3093	125-4093	\$5.10
7/64"	3/8"	1-1/2"	125-2109	125-3109	125-4109	\$5.00
1/8"	1/2"	1-1/2"	125-2125	125-3125	125-4125	\$4.90
9/64"	9/16"	2"	125-2140	125-3140	125-4140	\$10.34
5/32"	9/16"	2"	125-2156	125-3156	125-4156	\$10.20
11/64"	9/16"	2"	125-2171	125-3171	125-4171	\$10.22
3/16"	5/8"	2"	125-2187	125-3187	125-4187	\$9.90
13/64"	5/8"	2-1/2"	125-2203	125-3203	125-4203	\$13.66
7/32"	5/8"	2-1/2"	125-2218	125-3218	125-4218	\$12.70
15/64"	3/4"	2-1/2"	125-2234	125-3234	125-4234	\$13.50
1/4"	3/4"	2-1/2"	125-2250	125-3250	125-4250	\$12.50

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	125-2265	125-3265	125-4265	\$15.92
9/32"	7/8"	2-1/2"	125-2281	125-3281	125-4281	\$15.50
19/64"	7/8"	2-1/2"	125-2296	125-3296	125-4296	\$15.68
5/16"	7/8"	2-1/2"	125-2312	125-3312	125-4312	\$15.20
21/64"	7/8"	2-1/2"	125-2328	125-3328	125-4328	\$18.52
11/32"	7/8"	2-1/2"	125-2343	125-3343	125-4343	\$18.00
23/64"	7/8"	2-1/2"	125-2359	120-3359	125-4359	\$17.86
3/8"	1"	2-1/2"	125-2375	120-3375	125-4375	\$17.50
25/64"	1"	2-1/2"	125-2390	120-3390	125-4390	\$31.50
13/32"	1"	2-1/2"	125-2406	120-3406	125-4406	\$31.00
27/64"	1"	2-1/2"	125-2421	120-3421	125-4421	\$30.00
7/16"	1"	2-1/2"	125-2437	120-3437	125-4437	\$30.00
29/64"	1"	3"	125-2453	120-3453	125-4453	\$33.96
15/32"	1"	3"	125-2468	120-3468	125-4468	\$33.88
31/64"	1"	3"	125-2484	120-3484	125-4484	\$33.06
1/2"	1"	3"	125-2500	120-3500	125-4500	\$30.20

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	125-2515	125-3515	125-4515	\$74.44
17/32"	1-1/4"	3-1/2"	125-2531	125-3531	125-4531	\$72.74
35/64"	1-1/4"	3-1/2"	125-2546	125-3546	125-4546	\$83.56
9/16"	1-1/4"	3-1/2"	125-2562	125-3562	125-4562	\$58.30
37/64"	1-1/4"	3-1/2"	125-2578	125-3578	125-4578	\$72.00
19/32"	1-1/4"	3-1/2"	125-2593	125-3593	125-4593	\$70.36
39/64"	1-1/4"	3-1/2"	125-2609	125-3609	125-4609	\$68.32
5/8"	1-1/4"	3-1/2"	125-2625	125-3625	125-4625	\$57.60
41/64"	1-1/2"	4"	125-2640	125-3640	125-4640	\$102.30
21/32"	1-1/2"	4"	125-2656	125-3656	125-4656	\$100.90
43/64"	1-1/2"	4"	125-2671	125-3671	125-4671	\$99.34
11/16"	1-1/2"	4"	125-2687	125-3687	125-4687	\$95.70
45/64"	1-1/2"	4"	125-2703	125-3703	125-4703	\$94.12
23/32"	1-1/2"	4"	125-2718	125-3718	125-4718	\$93.18
47/64"	1-1/2"	4"	125-2734	125-3734	125-4737	\$92.40
3/4"	1-1/2"	4"	125-2750	125-3750	125-4750	\$82.80

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	125-2765	125-3765	125-4765	\$159.06
25/32"	1-1/2"	4"	125-2781	125-3781	125-4781	\$158.18
51/64"	1-1/2"	4"	125-2796	125-3796	125-4796	\$157.30
13/16"	1-1/2"	4"	125-2812	125-3812	125-4812	\$156.20
53/64"	1-1/2"	4"	125-2828	125-3828	125-4828	\$156.98
27/32"	1-1/2"	4"	125-2843	125-3843	125-4843	\$156.68
55/64"	1-1/2"	4"	125-2859	125-3859	125-4859	\$156.20
7/8"	1-1/2"	4"	125-2875	125-3875	125-4875	\$140.60
57/64"	1-1/2"	4"	125-2890	125-3890	125-4890	\$167.06
29/32"	1-1/2"	4"	125-2906	125-3906	125-4906	\$163.90
59/64"	1-1/2"	4"	125-2921	125-3921	125-4921	\$161.70
15/16"	1-1/2"	4"	125-2937	125-3937	125-4937	\$158.40
61/64"	1-1/2"	4"	125-2953	125-3953	125-4953	\$160.56
31/32"	1-1/2"	4"	125-2968	125-3968	125-4968	\$159.56
63/64"	1-1/2"	4"	125-2984	125-3984	125-4984	\$158.40
1"	1-1/2"	4"	125-2100	125-3100	125-4100	\$142.60

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

TICN COAT-HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	3/32"	1-1/2"	127-2031	127-3031	127-4031	\$7.55
3/64"	1/8"	1-1/2"	127-2046	127-3046	127-4046	\$7.55
1/16"	3/16"	1-1/2"	127-2062	127-3062	127-4062	\$6.38
5/64"	1/4"	1-1/2"	127-2078	127-3078	127-4078	\$6.21
3/32"	3/8"	1-1/2"	127-2093	127-3093	127-4093	\$5.80
7/64"	3/8"	1-1/2"	127-2109	127-3109	127-4109	\$5.82
1/8"	1/2"	1-1/2"	127-2125	127-3125	127-4125	\$5.61
9/64"	9/16"	2"	127-2140	127-3140	127-4140	\$12.01
5/32"	9/16"	2"	127-2156	127-3156	127-4156	\$11.16
11/64"	9/16"	2"	127-2171	127-3171	127-4171	\$11.60
3/16"	5/8"	2"	127-2187	127-3187	127-4187	\$10.86
13/64"	5/8"	2-1/2"	127-2203	127-3203	127-4203	\$16.04
7/32"	5/8"	2-1/2"	127-2218	127-3218	127-4218	\$14.61
15/64"	3/4"	2-1/2"	127-2234	127-3234	127-4234	\$15.83
1/4"	3/4"	2-1/2"	127-2250	127-3250	127-4250	\$12.77

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	127-2265	127-3265	127-4265	\$19.34
9/32"	7/8"	2-1/2"	127-2281	127-3281	127-4281	\$17.46
19/64"	7/8"	2-1/2"	127-2296	127-3296	127-4296	\$18.70
5/16"	7/8"	2-1/2"	127-2312	127-3312	127-4312	\$17.52
21/64"	7/8"	2-1/2"	127-2328	127-3328	127-4328	\$23.12
11/32"	7/8"	2-1/2"	127-2343	127-3343	127-4343	\$20.91
23/64"	7/8"	2-1/2"	127-2359	127-3359	127-4359	\$21.09
3/8"	1"	2-1/2"	127-2375	127-3375	127-4375	\$20.53
25/64"	1"	2-1/2"	127-2390	127-3390	127-4390	\$31.04
13/32"	1"	2-1/2"	127-2406	127-3406	127-4406	\$30.56
27/64"	1"	2-1/2"	127-2421	127-3421	127-4421	\$29.29
7/16"	1"	2-1/2"	127-2437	127-3437	127-4437	\$29.47
29/64"	1"	3"	127-2453	127-3453	127-4453	\$36.76
15/32"	1"	3"	127-2468	127-3468	127-4468	\$36.38
31/64"	1"	3"	127-2484	127-3484	127-4484	\$35.89
1/2"	1"	3"	127-2500	127-3500	127-4500	\$33.35

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

TICN COAT-HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	127-2515	127-3515	127-4515	\$78.90
17/32"	1-1/4"	3-1/2"	127-2531	127-3531	127-4531	\$77.21
35/64"	1-1/4"	3-1/2"	127-2546	127-3546	127-4546	\$72.91
9/16"	1-1/4"	3-1/2"	127-2562	127-3562	127-4562	\$61.73
37/64"	1-1/4"	3-1/2"	127-2578	127-3578	127-4578	\$74.22
19/32"	1-1/4"	3-1/2"	127-2593	127-3593	127-4593	\$72.91
39/64"	1-1/4"	3-1/2"	127-2609	127-3609	127-4609	\$71.53
5/8"	1-1/4"	3-1/2"	127-2625	127-3625	127-4625	\$63.67
41/64"	1-1/2"	4"	127-2640	127-3640	127-4640	\$98.01
21/32"	1-1/2"	4"	127-2656	127-3656	127-4656	\$96.42
43/64"	1-1/2"	4"	127-2671	127-3671	127-4671	\$96.22
11/16"	1-1/2"	4"	127-2687	127-3687	127-4687	\$93.90
45/64"	1-1/2"	4"	127-2703	127-3703	127-4703	\$95.16
23/32"	1-1/2"	4"	127-2718	127-3718	127-4718	\$94.48
47/64"	1-1/2"	4"	127-2734	127-3734	127-4737	\$94.22
3/4"	1-1/2"	4"	127-2750	127-3750	127-4750	\$85.09

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	127-2765	127-3765	127-4765	\$174.99
25/32"	1-1/2"	4"	127-2781	127-3781	127-4781	\$174.25
51/64"	1-1/2"	4"	127-2796	127-3796	127-4796	\$173.49
13/16"	1-1/2"	4"	127-2812	127-3812	127-4812	\$170.72
53/64"	1-1/2"	4"	127-2828	127-3828	127-4828	\$171.79
27/32"	1-1/2"	4"	127-2843	127-3843	127-4843	\$171.26
55/64"	1-1/2"	4"	127-2859	127-3859	127-4859	\$170.72
7/8"	1-1/2"	4"	127-2875	127-3875	127-4875	\$150.60
57/64"	1-1/2"	4"	127-2890	127-3890	127-4890	\$176.50
29/32"	1-1/2"	4"	127-2906	127-3906	127-4906	\$175.47
59/64"	1-1/2"	4"	127-2921	127-3921	127-4921	\$174.46
15/16"	1-1/2"	4"	127-2937	127-3937	127-4937	\$170.72
61/64"	1-1/2"	4"	127-2953	127-3953	127-4953	\$169.65
31/32"	1-1/2"	4"	127-2968	127-3968	127-4968	\$168.57
63/64"	1-1/2"	4"	127-2984	127-3984	127-4984	\$168.40
1"	1-1/2"	4"	127-2100	127-3100	127-4100	\$152.54

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

ALTiN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	3/32"	1-1/2"	130-2031	130-3031	130-4031	\$7.78
3/64"	1/8"	1-1/2"	130-2046	130-3046	130-4046	\$7.78
1/16"	3/16"	1-1/2"	130-2062	130-3062	130-4062	\$6.58
5/64"	1/4"	1-1/2"	130-2078	130-3078	130-4078	\$6.40
3/32"	3/8"	1-1/2"	130-2093	130-3093	130-4093	\$5.98
7/64"	3/8"	1-1/2"	130-2109	130-3109	130-4109	\$6.00
1/8"	1/2"	1-1/2"	130-2125	130-3125	130-4125	\$5.78
9/64"	9/16"	2"	130-2140	130-3140	130-4140	\$12.38
5/32"	9/16"	2"	130-2156	130-3156	130-4156	\$11.50
11/64"	9/16"	2"	130-2171	130-3171	130-4171	\$11.96
3/16"	5/8"	2"	130-2187	130-3187	130-4187	\$11.20
13/64"	5/8"	2-1/2"	130-2203	130-3203	130-4203	\$16.54
7/32"	5/8"	2-1/2"	130-2218	130-3218	130-4218	\$15.06
15/64"	3/4"	2-1/2"	130-2234	130-3234	130-4234	\$16.32
1/4"	3/4"	2-1/2"	130-2250	130-3250	130-4250	\$13.16

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	130-2265	130-3265	130-4265	\$19.94
9/32"	7/8"	2-1/2"	130-2281	130-3281	130-4281	\$18.56
19/64"	7/8"	2-1/2"	130-2296	130-3296	130-4296	\$19.28
5/16"	7/8"	2-1/2"	130-2312	130-3312	130-4312	\$18.06
21/64"	7/8"	2-1/2"	130-2328	130-3328	130-4328	\$23.84
11/32"	7/8"	2-1/2"	130-2343	130-3343	130-4343	\$21.56
23/64"	7/8"	2-1/2"	130-2359	130-3359	130-4359	\$21.74
3/8"	7/8"	2-1/2"	130-2375	130-3375	130-4375	\$21.16
25/64"	7/8"	2-1/2"	130-2390	130-3390	130-4390	\$32.00
13/32"	7/8"	2-1/2"	130-2406	130-3406	130-4406	\$31.50
27/64"	7/8"	2-1/2"	130-2421	130-3421	130-4421	\$30.20
7/16"	1"	2-1/2"	130-2437	130-3437	130-4437	\$30.38
29/64"	1"	3"	130-2453	130-3453	130-4453	\$37.90
15/32"	1"	3"	130-2468	130-3468	130-4468	\$37.50
31/64"	1"	3"	130-2484	130-3484	130-4484	\$37.00
1/2"	1"	3"	130-2500	130-3500	130-4500	\$34.38

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END SQUARE
2-3-4 FLUTE

ALTiN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	130-2515	130-3515	130-4515	\$81.34
17/32"	1-1/4"	3-1/2"	130-2531	130-3531	130-4531	\$79.60
35/64"	1-1/4"	3-1/2"	130-2546	130-3546	130-4546	\$75.16
9/16"	1-1/4"	3-1/2"	130-2562	130-3562	130-4562	\$63.64
37/64"	1-1/4"	3-1/2"	130-2578	130-3578	130-4578	\$76.52
19/32"	1-1/4"	3-1/2"	130-2593	130-3593	130-4593	\$75.16
39/64"	1-1/4"	3-1/2"	130-2609	130-3609	130-4609	\$73.74
5/8"	1-1/4"	3-1/2"	130-2625	130-3625	130-4625	\$65.64
41/64"	1-1/2"	4"	130-2640	130-3640	130-4640	\$101.04
21/32"	1-1/2"	4"	130-2656	130-3656	130-4656	\$99.40
43/64"	1-1/2"	4"	130-2671	130-3671	130-4671	\$99.20
11/16"	1-1/2"	4"	130-2687	130-3687	130-4687	\$96.80
45/64"	1-1/2"	4"	130-2703	130-3703	130-4703	\$98.10
23/32"	1-1/2"	4"	130-2718	130-3718	130-4718	\$97.40
47/64"	1-1/2"	4"	130-2734	130-3734	130-4737	\$97.14
3/4"	1-1/2"	4"	130-2750	130-3750	130-4750	\$87.72

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	130-2765	130-3765	130-4765	\$180.40
25/32"	1-1/2"	4"	130-2781	130-3781	130-4781	\$179.64
51/64"	1-1/2"	4"	130-2796	130-3796	130-4796	\$178.86
13/16"	1-1/2"	4"	130-2812	130-3812	130-4812	\$176.00
53/64"	1-1/2"	4"	130-2828	130-3828	130-4828	\$177.10
27/32"	1-1/2"	4"	130-2843	130-3843	130-4843	\$176.56
55/64"	1-1/2"	4"	130-2859	130-3859	130-4859	\$176.00
7/8"	1-1/2"	4"	130-2875	130-3875	130-4875	\$155.26
57/64"	1-1/2"	4"	130-2890	130-3890	130-4890	\$181.96
29/32"	1-1/2"	4"	130-2906	130-3906	130-4906	\$180.90
59/64"	1-1/2"	4"	130-2921	130-3921	130-4921	\$179.86
15/16"	1-1/2"	4"	130-2937	130-3937	130-4937	\$176.00
61/64"	1-1/2"	4"	130-2953	130-3953	130-4953	\$174.90
31/32"	1-1/2"	4"	130-2968	130-3968	130-4968	\$173.78
63/64"	1-1/2"	4"	130-2984	130-3984	130-4984	\$173.60
1"	1-1/2"	4"	130-2100	130-3100	130-4100	\$157.26

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL

2-4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/64"	1/16"	1-1/2"	135-2015	135-4015	\$12.21
1/32"	3/32"	1-1/2"	135-2031	135-4031	\$9.00
3/64"	1/8"	1-1/2"	135-2046	135-4046	\$9.00
1/16"	3/16"	1-1/2"	135-2062	135-4062	\$8.00
5/64"	1/4"	1-1/2"	135-2078	135-4078	\$8.00
3/32"	3/8"	1-1/2"	135-2093	135-4093	\$8.00
7/64"	3/8"	1-1/2"	135-2109	135-4109	\$8.00
1/8"	1/2"	1-1/2"	135-2125	135-4125	\$6.40
9/64"	9/16"	2"	135-2140	135-4140	\$11.00
5/32"	9/16"	2"	135-2156	135-4156	\$10.60
11/64"	9/16"	2"	135-2171	135-4171	\$11.00
3/16"	5/8"	2"	135-2187	135-4187	\$10.60
13/64"	5/8"	2-1/2"	135-2203	135-4203	\$13.90
7/32"	5/8"	2-1/2"	135-2218	135-4218	\$13.00
15/64"	3/4"	2-1/2"	135-2234	135-4234	\$13.90
1/4"	3/4"	2-1/2"	135-2250	135-4250	\$12.20

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	135-2265	135-4265	\$18.20
9/32"	7/8"	2-1/2"	135-2281	135-4281	\$17.00
19/64"	7/8"	2-1/2"	135-2296	135-4296	\$18.20
5/16"	7/8"	2-1/2"	135-2312	135-4312	\$15.60
21/64"	7/8"	2-1/2"	135-2328	135-4328	\$20.50
11/32"	7/8"	2-1/2"	135-2343	135-4343	\$19.00
23/64"	7/8"	2-1/2"	135-2359	135-4359	\$20.50
3/8"	7/8"	2-1/2"	135-2375	135-4375	\$19.00
25/64"	7/8"	2-1/2"	135-2390	135-4390	\$31.60
13/32"	7/8"	2-1/2"	135-2406	135-4406	\$31.00
27/64"	7/8"	2-1/2"	135-2421	135-4421	\$30.80
7/16"	1"	2-1/2"	135-2437	135-4437	\$30.00
29/64"	1"	3"	135-2453	135-4453	\$34.20
15/32"	1"	3"	135-2468	135-4468	\$33.90
31/64"	1"	3"	135-2484	135-4484	\$33.60
1/2"	1"	3"	135-2500	135-4500	\$32.00

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL
2-4 FLUTE
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	135-2515	135-4515	\$74.00
17/32"	1-1/4"	3-1/2"	135-2531	135-4531	\$70.00
35/64"	1-1/4"	3-1/2"	135-2546	135-4546	\$68.00
9/16"	1-1/4"	3-1/2"	135-2562	135-4562	\$61.00
37/64"	1-1/4"	3-1/2"	135-2578	135-4578	\$75.00
19/32"	1-1/4"	3-1/2"	135-2593	135-4593	\$71.00
39/64"	1-1/4"	3-1/2"	135-2609	135-4609	\$69.00
5/8"	1-1/4"	3-1/2"	135-2625	135-4625	\$61.00
41/64"	1-1/2"	4"	135-2640	135-4640	\$103.00
21/32"	1-1/2"	4"	135-2656	135-4656	\$103.00
43/64"	1-1/2"	4"	135-2671	135-4671	\$102.00
11/16"	1-1/2"	4"	135-2687	135-4687	\$96.00
45/64"	1-1/2"	4"	135-2703	135-4703	\$94.00
23/32"	1-1/2"	4"	135-2718	135-4718	\$94.00
47/64"	1-1/2"	4"	135-2734	135-4737	\$94.00
3/4"	1-1/2"	4"	135-2750	135-4750	\$84.00

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	135-2765	135-4765	\$185.90
25/32"	1-1/2"	4"	135-2781	135-4781	\$185.90
51/64"	1-1/2"	4"	135-2796	135-4796	\$185.90
13/16"	1-1/2"	4"	135-2812	135-4812	\$185.90
53/64"	1-1/2"	4"	135-2828	135-4828	\$180.60
27/32"	1-1/2"	4"	135-2843	135-4843	\$180.60
55/64"	1-1/2"	4"	135-2859	135-4859	\$180.60
7/8"	1-1/2"	4"	135-2875	135-4875	\$164.00
57/64"	1-1/2"	4"	135-2890	135-4890	\$189.70
29/32"	1-1/2"	4"	135-2906	135-4906	\$189.70
59/64"	1-1/2"	4"	135-2921	135-4921	\$189.70
15/16"	1-1/2"	4"	135-2937	135-4937	\$182.50
61/64"	1-1/2"	4"	135-2953	135-4953	\$182.50
31/32"	1-1/2"	4"	135-2968	135-4968	\$182.50
63/64"	1-1/2"	4"	135-2984	135-4984	\$182.50
1"	1-1/2"	4"	135-2100	135-4100	\$166.00

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL

2-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/64"	1/16"	1-1/2"	140-2015	140-4015	\$13.11
1/32"	3/32"	1-1/2"	140-2031	140-4031	\$9.90
3/64"	1/8"	1-1/2"	140-2046	140-4046	\$9.90
1/16"	3/16"	1-1/2"	140-2062	140-4062	\$9.30
5/64"	1/4"	1-1/2"	140-2078	140-4078	\$9.10
3/32"	3/8"	1-1/2"	140-2093	140-4093	\$9.30
7/64"	3/8"	1-1/2"	140-2109	140-4109	\$8.80
1/8"	1/2"	1-1/2"	140-2125	140-4125	\$8.70
9/64"	9/16"	2"	140-2140	140-4140	\$13.68
5/32"	9/16"	2"	140-2156	140-4156	\$12.20
11/64"	9/16"	2"	140-2171	140-4171	\$13.04
3/16"	5/8"	2"	140-2187	140-4187	\$12.00
13/64"	5/8"	2-1/2"	140-2203	140-4203	\$16.42
7/32"	5/8"	2-1/2"	140-2218	140-4218	\$15.50
15/64"	3/4"	2-1/2"	140-2234	140-4234	\$16.30
1/4"	3/4"	2-1/2"	140-2250	140-4250	\$14.50

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	140-2265	140-4265	\$19.70
9/32"	7/8"	2-1/2"	140-2281	140-4281	\$18.50
19/64"	7/8"	2-1/2"	140-2296	140-4296	\$18.46
5/16"	7/8"	2-1/2"	140-2312	140-4312	\$18.00
21/64"	7/8"	2-1/2"	140-2328	140-4328	\$22.54
11/32"	7/8"	2-1/2"	140-2343	140-4343	\$22.00
23/64"	7/8"	2-1/2"	140-2359	140-4359	\$22.48
3/8"	1"	2-1/2"	140-2375	140-4375	\$22.00
25/64"	1"	2-1/2"	140-2390	140-4390	\$37.50
13/32"	1"	2-1/2"	140-2406	140-4406	\$37.00
27/64"	1"	2-1/2"	140-2421	140-4421	\$36.50
7/16"	1"	2-1/2"	140-2437	140-4437	\$37.10
29/64"	1"	3"	140-2453	140-4453	\$40.68
15/32"	1"	3"	140-2468	140-4468	\$40.58
31/64"	1"	3"	140-2484	140-4484	\$39.96
1/2"	1"	3"	140-2500	140-4500	\$38.00

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL

2-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	140-2515	140-4515	\$81.96
17/32"	1-1/4"	3-1/2"	140-2531	140-4531	\$81.40
35/64"	1-1/4"	3-1/2"	140-2546	140-4546	\$79.54
9/16"	1-1/4"	3-1/2"	140-2562	140-4562	\$68.40
37/64"	1-1/4"	3-1/2"	140-2578	140-4578	\$81.86
19/32"	1-1/4"	3-1/2"	140-2593	140-4593	\$81.54
39/64"	1-1/4"	3-1/2"	140-2609	140-4609	\$79.56
5/8"	1-1/4"	3-1/2"	140-2625	140-4625	\$68.30
41/64"	1-1/2"	4"	140-2640	140-4640	\$119.00
21/32"	1-1/2"	4"	140-2656	140-4656	\$118.26
43/64"	1-1/2"	4"	140-2671	140-4671	\$117.04
11/16"	1-1/2"	4"	140-2687	140-4687	\$113.86
45/64"	1-1/2"	4"	140-2703	140-4703	\$114.26
23/32"	1-1/2"	4"	140-2718	140-4718	\$113.36
47/64"	1-1/2"	4"	140-2734	140-4737	\$112.28
3/4"	1-1/2"	4"	140-2750	140-4750	\$98.40

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	140-2765	140-4765	\$196.60
25/32"	1-1/2"	4"	140-2781	140-4781	\$196.36
51/64"	1-1/2"	4"	140-2796	140-4796	\$195.80
13/16"	1-1/2"	4"	140-2812	140-4812	\$194.26
53/64"	1-1/2"	4"	140-2828	140-4828	\$195.00
27/32"	1-1/2"	4"	140-2843	140-4843	\$194.76
55/64"	1-1/2"	4"	140-2859	140-4859	\$194.50
7/8"	1-1/2"	4"	140-2875	140-4875	\$176.60
57/64"	1-1/2"	4"	140-2890	140-4890	\$206.80
29/32"	1-1/2"	4"	140-2906	140-4906	\$204.60
59/64"	1-1/2"	4"	140-2921	140-4921	\$202.40
15/16"	1-1/2"	4"	140-2937	140-4937	\$198.00
61/64"	1-1/2"	4"	140-2953	140-4953	\$201.30
31/32"	1-1/2"	4"	140-2968	140-4968	\$198.96
63/64"	1-1/2"	4"	140-2984	140-4984	\$198.22
1"	1-1/2"	4"	140-2100	140-4100	\$179.40

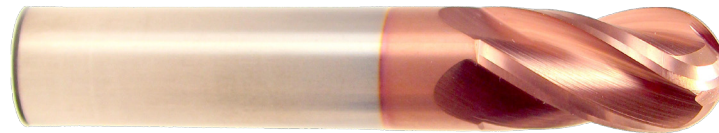
SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL

2-3-4 FLUTE

TICN COAT - HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	3/32"	1-1/2"	143-2031	143-4031	\$10.46
3/64"	1/8"	1-1/2"	143-2046	143-4046	\$10.46
1/16"	3/16"	1-1/2"	143-2062	143-4062	\$9.49
5/64"	1/4"	1-1/2"	143-2078	143-4078	\$8.85
3/32"	3/8"	1-1/2"	143-2093	143-4093	\$9.49
7/64"	3/8"	1-1/2"	143-2109	143-4109	\$8.15
1/8"	1/2"	1-1/2"	143-2125	143-4125	\$7.93
9/64"	9/16"	2"	143-2140	143-4140	\$14.05
5/32"	9/16"	2"	143-2156	143-4156	\$12.80
11/64"	9/16"	2"	143-2171	143-4171	\$13.75
3/16"	5/8"	2"	143-2187	143-4187	\$12.80
13/64"	5/8"	2-1/2"	143-2203	143-4203	\$18.35
7/32"	5/8"	2-1/2"	143-2218	143-4218	\$17.13
15/64"	3/4"	2-1/2"	143-2234	143-4234	\$18.29
1/4"	3/4"	2-1/2"	143-2250	143-4250	\$16.35

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	143-2265	143-4265	\$23.14
9/32"	7/8"	2-1/2"	143-2281	143-4281	\$21.88
19/64"	7/8"	2-1/2"	143-2296	143-4296	\$22.33
5/16"	7/8"	2-1/2"	143-2312	143-4312	\$21.50
21/64"	7/8"	2-1/2"	143-2328	143-4328	\$27.12
11/32"	7/8"	2-1/2"	143-2343	143-4343	\$24.79
23/64"	7/8"	2-1/2"	143-2359	143-4359	\$25.39
3/8"	1"	2-1/2"	143-2375	143-4375	\$24.79
25/64"	1"	2-1/2"	143-2390	143-4390	\$40.22
13/32"	1"	2-1/2"	143-2406	143-4406	\$38.49
27/64"	1"	2-1/2"	143-2421	143-4421	\$37.60
7/16"	1"	2-1/2"	143-2437	143-4437	\$38.20
29/64"	1"	3"	143-2453	143-4453	\$44.62
15/32"	1"	3"	143-2468	143-4468	\$42.68
31/64"	1"	3"	143-2484	143-4484	\$41.71
1/2"	1"	3"	143-2500	143-4500	\$40.14

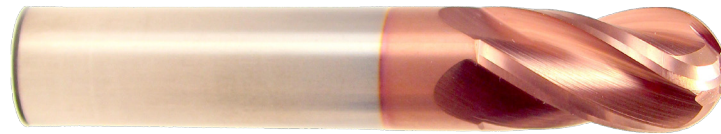
SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL

2-4 FLUTE

TICN COAT - HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	143-2515	143-4515	\$89.65
17/32"	1-1/4"	3-1/2"	143-2531	143-4531	\$88.41
35/64"	1-1/4"	3-1/2"	143-2546	143-4546	\$84.99
9/16"	1-1/4"	3-1/2"	143-2562	143-4562	\$73.37
37/64"	1-1/4"	3-1/2"	143-2578	143-4578	\$84.25
19/32"	1-1/4"	3-1/2"	143-2593	143-4593	\$83.59
39/64"	1-1/4"	3-1/2"	143-2609	143-4609	\$83.09
5/8"	1-1/4"	3-1/2"	143-2625	143-4625	\$73.37
41/64"	1-1/2"	4"	143-2640	143-4640	\$111.80
21/32"	1-1/2"	4"	143-2656	143-4656	\$110.32
43/64"	1-1/2"	4"	143-2671	143-4671	\$108.83
11/16"	1-1/2"	4"	143-2687	143-4687	\$107.77
45/64"	1-1/2"	4"	143-2703	143-4703	\$109.30
23/32"	1-1/2"	4"	143-2718	143-4718	\$108.89
47/64"	1-1/2"	4"	143-2734	143-4737	\$108.37
3/4"	1-1/2"	4"	143-2750	143-4750	\$97.70

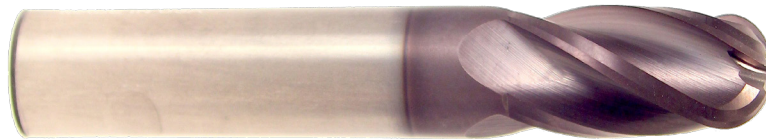
CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	143-2765	143-4765	\$210.01
25/32"	1-1/2"	4"	143-2781	143-4781	\$209.56
51/64"	1-1/2"	4"	143-2796	143-4796	\$209.13
13/16"	1-1/2"	4"	143-2812	143-4812	\$207.00
53/64"	1-1/2"	4"	143-2828	143-4828	\$207.97
27/32"	1-1/2"	4"	143-2843	143-4843	\$207.54
55/64"	1-1/2"	4"	143-2859	143-4859	\$207.00
7/8"	1-1/2"	4"	143-2875	143-4875	\$187.46
57/64"	1-1/2"	4"	143-2890	143-4890	\$219.80
29/32"	1-1/2"	4"	143-2906	143-4906	\$216.60
59/64"	1-1/2"	4"	143-2921	143-4921	\$213.40
15/16"	1-1/2"	4"	143-2937	143-4937	\$209.13
61/64"	1-1/2"	4"	143-2953	143-4953	\$210.22
31/32"	1-1/2"	4"	143-2968	143-4968	\$209.61
63/64"	1-1/2"	4"	143-2984	143-4984	\$209.13
1"	1-1/2"	4"	143-2100	143-4100	\$189.40

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL 2-4 FLUTE

ALTIN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	3/32"	1-1/2"	145-2031	145-4031	\$10.78
3/64"	1/8"	1-1/2"	145-2046	145-4046	\$10.78
1/16"	3/16"	1-1/2"	145-2062	145-4062	\$9.78
5/64"	1/4"	1-1/2"	145-2078	145-4078	\$9.12
3/32"	3/8"	1-1/2"	145-2093	145-4093	\$9.78
7/64"	3/8"	1-1/2"	145-2109	145-4109	\$8.40
1/8"	1/2"	1-1/2"	145-2125	145-4125	\$8.18
9/64"	9/16"	2"	145-2140	145-4140	\$14.48
5/32"	9/16"	2"	145-2156	145-4156	\$13.20
11/64"	9/16"	2"	145-2171	145-4171	\$14.18
3/16"	5/8"	2"	145-2187	145-4187	\$13.20
13/64"	5/8"	2-1/2"	145-2203	145-4203	\$18.92
7/32"	5/8"	2-1/2"	145-2218	145-4218	\$17.66
15/64"	3/4"	2-1/2"	145-2234	145-4234	\$18.36
1/4"	3/4"	2-1/2"	145-2250	145-4250	\$16.86

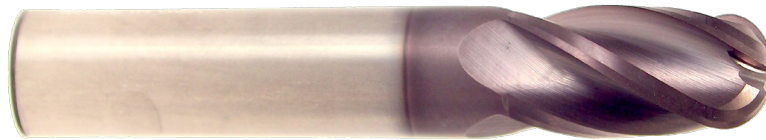
CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
17/64"	7/8"	2-1/2"	145-2265	145-4265	\$23.86
9/32"	7/8"	2-1/2"	145-2281	145-4281	\$22.56
19/64"	7/8"	2-1/2"	145-2296	145-4296	\$23.02
5/16"	7/8"	2-1/2"	145-2312	145-4312	\$22.16
21/64"	7/8"	2-1/2"	145-2328	145-4328	\$27.96
11/32"	7/8"	2-1/2"	145-2343	145-4343	\$25.56
23/64"	7/8"	2-1/2"	145-2359	145-4359	\$26.18
3/8"	1"	2-1/2"	145-2375	145-4375	\$25.56
25/64"	1"	2-1/2"	145-2390	145-4390	\$41.46
13/32"	1"	2-1/2"	145-2406	145-4406	\$39.68
27/64"	1"	2-1/2"	145-2421	145-4421	\$38.76
7/16"	1"	2-1/2"	145-2437	145-4437	\$39.38
29/64"	1"	3"	145-2453	145-4453	\$46.00
15/32"	1"	3"	145-2468	145-4468	\$44.00
31/64"	1"	3"	145-2484	145-4484	\$43.00
1/2"	1"	3"	145-2500	145-4500	\$41.38

SOLID CARBIDE END MILLS

STANDARD LENGTH

SINGLE END BALL
2-4 FLUTE

ALTIN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
33/64"	1-1/4"	3-1/2"	145-2515	145-4515	\$92.42
17/32"	1-1/4"	3-1/2"	145-2531	145-4531	\$91.14
35/64"	1-1/4"	3-1/2"	145-2546	145-4546	\$87.62
9/16"	1-1/4"	3-1/2"	145-2562	145-4562	\$75.64
37/64"	1-1/4"	3-1/2"	145-2578	145-4578	\$86.86
19/32"	1-1/4"	3-1/2"	145-2593	145-4593	\$86.18
39/64"	1-1/4"	3-1/2"	145-2609	145-4609	\$85.66
5/8"	1-1/4"	3-1/2"	145-2625	145-4625	\$75.64
41/64"	1-1/2"	4"	145-2640	145-4640	\$115.26
21/32"	1-1/2"	4"	145-2656	145-4656	\$113.74
43/64"	1-1/2"	4"	145-2671	145-4671	\$112.20
11/16"	1-1/2"	4"	145-2687	145-4687	\$111.10
45/64"	1-1/2"	4"	145-2703	145-4703	\$112.68
23/32"	1-1/2"	4"	145-2718	145-4718	\$112.26
47/64"	1-1/2"	4"	145-2734	145-4737	\$111.72
3/4"	1-1/2"	4"	145-2750	145-4750	\$100.72

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
49/64"	1-1/2"	4"	145-2765	145-4765	\$216.50
25/32"	1-1/2"	4"	145-2781	145-4781	\$216.04
51/64"	1-1/2"	4"	145-2796	145-4796	\$215.60
13/16"	1-1/2"	4"	145-2812	145-4812	\$213.40
53/64"	1-1/2"	4"	145-2828	145-4828	\$214.40
27/32"	1-1/2"	4"	145-2843	145-4843	\$213.96
55/64"	1-1/2"	4"	145-2859	145-4859	\$213.40
7/8"	1-1/2"	4"	145-2875	145-4875	\$193.26
57/64"	1-1/2"	4"	145-2890	145-4890	\$226.60
29/32"	1-1/2"	4"	145-2906	145-4906	\$223.90
59/64"	1-1/2"	4"	145-2921	145-4921	\$220.00
15/16"	1-1/2"	4"	145-2937	145-4937	\$215.60
61/64"	1-1/2"	4"	145-2953	145-4953	\$216.72
31/32"	1-1/2"	4"	145-2968	145-4968	\$216.10
63/64"	1-1/2"	4"	145-2984	145-4984	\$215.60
1"	1-1/2"	4"	145-2100	145-4100	\$195.26

Series 150



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS

LONG LENGTH / SINGLE END SQUARE / 2-4 FLUTE / UNCOATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	150-2125	150-4125	\$8.30
3/16"	3/4"	2-1/2"	150-2187	150-4187	\$12.12
1/4"	1-1/8"	3"	150-2250	150-4250	\$14.50
5/16"	1-1/8"	3"	150-2312	150-4312	\$18.00
3/8"	1-1/8"	3"	150-2375	150-4375	\$25.00
7/16"	2"	4"	150-2437	150-4437	\$39.64
1/2"	1-1/2"	4"	150-2504	150-4504	\$40.30
1/2"	2"	4"	150-2500	150-4500	\$42.84
5/8"	2-1/4"	5"	150-2625	150-4625	\$78.00
3/4"	2-1/4"	5"	150-2750	150-4750	\$110.00
1"	2-1/4"	5"	150-2100	150-4100	\$170.00



Series 155

SOLID CARBIDE END MILLS

LONG LENGTH / SINGLE END BALL / 2-4 FLUTE / UNCOATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	155-2125	155-4125	\$13.60
3/16"	3/4"	2-1/2"	155-2187	155-4187	\$16.24
1/4"	1-1/8"	3"	155-2250	155-4250	\$21.06
5/16"	1-1/8"	3"	155-2312	155-4312	\$25.50
3/8"	1-1/8"	3"	155-2375	155-4375	\$33.00
7/16"	2"	4"	155-2437	155-4437	\$48.17
1/2"	1-1/2"	4"	155-2504	155-4504	\$50.36
1/2"	2"	4"	155-2500	155-4500	\$52.74
5/8"	2-1/4"	5"	155-2625	155-4625	\$98.86
3/4"	2-1/4"	5"	155-2750	155-4750	\$139.00
1"	2-1/4"	5"	155-2100	155-4100	\$216.00



SOLID CARBIDE END MILLS

LONG LENGTH / SINGLE END SQUARE / 2-4 FLUTE / TIN COATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	152-2125	152-4125	\$9.51
3/16"	3/4"	2-1/2"	152-2187	152-4187	\$13.72
1/4"	1-1/8"	3"	152-2250	152-4250	\$16.83
5/16"	1-1/8"	3"	152-2312	152-4312	\$21.23
3/8"	1-1/8"	3"	152-2375	152-4375	\$28.28
7/16"	2"	4"	152-2437	152-4437	\$44.44
1/2"	1-1/2"	4"	152-2504	152-4504	\$46.65
1/2"	2"	4"	152-2500	152-4500	\$48.70
5/8"	2-1/4"	5"	152-2625	152-4625	\$86.80
3/4"	2-1/4"	5"	152-2750	152-4750	\$120.02
1"	2-1/4"	5"	152-2100	152-4100	\$187.56



SOLID CARBIDE END MILLS

LONG LENGTH / SINGLE END BALL / 2-4 FLUTE / TIN COATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	157-2125	157-4125	\$14.81
3/16"	3/4"	2-1/2"	157-2187	157-4187	\$17.84
1/4"	1-1/8"	3"	157-2250	157-4250	\$23.21
5/16"	1-1/8"	3"	157-2312	157-4312	\$28.73
3/8"	1-1/8"	3"	157-2375	157-4375	\$36.28
7/16"	2"	4"	157-2437	157-4437	\$52.26
1/2"	1-1/2"	4"	157-2504	157-4504	\$60.54
1/2"	2"	4"	157-2500	157-4500	\$58.60
5/8"	2-1/4"	5"	157-2625	157-4625	\$107.66
3/4"	2-1/4"	5"	157-2750	157-4750	\$149.02
1"	2-1/4"	5"	157-2100	157-4100	\$233.56



Series 154



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS
LONG LENGTH / SINGLE END SQUARE / 2-4 FLUTE
TICN COAT - HTC PROGRESSIVE COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	154-2125	154-4125	\$10.40
3/16"	3/4"	2-1/2"	154-2187	154-4187	\$14.86
1/4"	1-1/8"	3"	154-2250	154-4250	\$18.59
5/16"	1-1/8"	3"	154-2312	154-4312	\$23.73
3/8"	1-1/8"	3"	154-2375	154-4375	\$30.61
7/16"	2"	4"	154-2437	154-4437	\$47.76
1/2"	1-1/2"	4"	154-2504	154-4504	\$51.41
1/2"	2"	4"	154-2500	154-4500	\$52.92
5/8"	2-1/4"	5"	154-2625	154-4625	\$92.73
3/4"	2-1/4"	5"	154-2750	154-4750	\$126.14
1"	2-1/4"	5"	154-2100	154-4100	\$198.97



Series 159

SOLID CARBIDE END MILLS
LONG LENGTH / SINGLE END BALL / 2-4 FLUTE
TICN COAT - HTC PROGRESSIVE COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	159-2125	159-4125	\$15.54
3/16"	3/4"	2-1/2"	159-2187	159-4187	\$18.86
1/4"	1-1/8"	3"	159-2250	159-4250	\$24.60
5/16"	1-1/8"	3"	159-2312	159-4312	\$31.00
3/8"	1-1/8"	3"	159-2375	159-4375	\$38.37
7/16"	2"	4"	159-2437	159-4437	\$54.65
1/2"	1-1/2"	4"	159-2504	159-4504	\$58.72
1/2"	2"	4"	159-2500	159-4500	\$62.53
5/8"	2-1/4"	5"	159-2625	159-4625	\$112.97
3/4"	2-1/4"	5"	159-2750	159-4750	\$154.27
1"	2-1/4"	5"	159-2100	159-4100	\$243.59



SOLID CARBIDE END MILLS

LONG LENGTH / SINGLE END SQUARE / 2-4 FLUTE
ALTIN COATED - HTC HARD COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	160-2125	160-4125	\$10.72
3/16"	3/4"	2-1/2"	160-2187	160-4187	\$15.32
1/4"	1-1/8"	3"	160-2250	160-4250	\$19.16
5/16"	1-1/8"	3"	160-2312	160-4312	\$24.46
3/8"	1-1/8"	3"	160-2375	160-4375	\$31.56
7/16"	2"	4"	160-2437	160-4437	\$49.24
1/2"	1-1/2"	4"	160-2504	160-4504	\$53.00
1/2"	2"	4"	160-2500	160-4500	\$54.56
5/8"	2-1/4"	5"	160-2625	160-4625	\$95.60
3/4"	2-1/4"	5"	160-2750	160-4750	\$130.04
1"	2-1/4"	5"	160-2100	160-4100	\$205.12



Series 165

SOLID CARBIDE END MILLS

LONG LENGTH / SINGLE END BALL / 2-4 FLUTE
ALTIN COATED - HTC HARD COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	3/4"	2-1/2"	165-2125	165-4125	\$16.02
3/16"	3/4"	2-1/2"	165-2187	165-4187	\$19.44
1/4"	1-1/8"	3"	165-2250	165-4250	\$25.36
5/16"	1-1/8"	3"	165-2312	165-4312	\$31.96
3/8"	1-1/8"	3"	165-2375	165-4375	\$39.56
7/16"	2"	4"	165-2437	165-4437	\$56.34
1/2"	1-1/2"	4"	165-2504	165-4504	\$60.54
1/2"	2"	4"	165-2500	165-4500	\$64.46
5/8"	2-1/4"	5"	165-2625	165-4625	\$116.46
3/4"	2-1/4"	5"	165-2750	165-4750	\$159.04
1"	2-1/4"	5"	165-2100	165-4100	\$251.12



SOLID CARBIDE END MILLS

EXTRA LONG LENGTH
SINGLE END SQUARE / 2-4 FLUTE
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	170-2125	170-4125	\$12.42
3/16"	1-1/8"	3"	170-2187	170-4187	\$13.00
1/4"	1-1/2"	4"	170-2250	170-4250	\$17.00
1/4"	1-1/2"	6"	170-2256	170-4256	\$24.50
5/16"	1-5/8"	4"	170-2312	170-4312	\$21.00
5/16"	1-1/2"	6"	170-2316	170-4316	\$34.20
3/8"	1-3/4"	4"	170-2375	170-4375	\$27.50
3/8"	1-1/2"	6"	170-2376	170-4376	\$37.00
3/8"	3"	6"	170-2336	170-4336	\$42.00
1/2"	3"	6"	170-2500	170-4500	\$67.00
1/2"	1-1/2"	6"	170-2506	170-4506	\$58.00
5/8"	3"	6"	170-2625	170-4625	\$88.00
3/4"	3"	6"	170-2750	170-4750	\$122.00
3/4"	4"	7"	170-2757	170-4757	\$152.00
1"	3"	6"	170-2100	170-4100	\$230.00
1"	4"	7"	170-2107	170-4107	\$290.00

SOLID CARBIDE END MILLS

EXTRA LONG LENGTH
SINGLE END BALL / 2-4 FLUTE
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	175-2125	175-4145	\$16.12
3/16"	1-1/8"	3"	175-2187	175-4187	\$17.88
1/4"	1-1/2"	4"	175-2250	175-4250	\$23.50
1/4"	1-1/2"	6"	175-2256	175-4256	\$29.00
5/16"	1-5/8"	4"	175-2312	175-4312	\$28.70
5/16"	1-1/2"	6"	175-2316	175-4316	\$38.00
3/8"	1-3/4"	4"	175-2375	175-4375	\$38.00
3/8"	1-1/2"	6"	175-2376	175-4376	\$49.50
3/8"	3"	6"	175-2336	175-4336	\$54.50
1/2"	3"	6"	175-2500	175-4500	\$83.00
1/2"	1-1/2"	6"	175-2506	175-4506	\$74.00
5/8"	3"	6"	175-2625	175-4625	\$116.00
3/4"	3"	6"	175-2750	175-4750	\$156.00
3/4"	4"	7"	175-2757	175-4757	\$192.00
1"	3"	6"	175-2100	175-4100	\$270.00
1"	4"	7"	175-2107	175-4107	\$336.00

SOLID CARBIDE END MILLS
EXTRA LONG LENGTH
SINGLE END SQUARE / 2-4 FLUTE
TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	172-2125	172-4125	\$13.63
3/16"	1-1/8"	3"	172-2187	172-4187	\$14.60
1/4"	1-1/2"	4"	172-2250	172-4250	\$19.92
1/4"	1-1/2"	6"	172-2256	172-4256	\$29.80
5/16"	1-5/8"	4"	172-2312	172-4312	\$24.65
5/16"	1-1/2"	6"	172-2316	172-4316	\$41.81
3/8"	1-3/4"	4"	172-2375	172-4375	\$31.50
3/8"	1-1/2"	6"	172-2376	172-4376	\$45.31
3/8"	3"	6"	172-2336	172-4336	\$46.81
1/2"	3"	6"	172-2500	172-4500	\$75.18
1/2"	1-1/2"	6"	172-2506	172-4506	\$67.18
5/8"	3"	6"	172-2625	172-4625	\$98.25
3/4"	3"	6"	172-2750	172-4750	\$134.16
3/4"	4"	7"	172-2757	172-4757	\$165.38
1"	3"	6"	172-2100	172-4100	\$250.47
1"	4"	7"	172-2107	172-4107	\$313.39

SOLID CARBIDE END MILLS

EXTRA LONG LENGTH
SINGLE END BALL / 2-4 FLUTE
TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	177-2125	177-4125	\$17.33
3/16"	1-1/8"	3"	177-2187	177-4187	\$19.48
1/4"	1-1/2"	4"	177-2250	177-4250	\$26.42
1/4"	1-1/2"	6"	177-2256	177-4256	\$34.10
5/16"	1-5/8"	4"	177-2312	177-4312	\$32.50
5/16"	1-1/2"	6"	177-2316	177-4316	\$49.87
3/8"	1-3/4"	4"	177-2375	177-4375	\$51.15
3/8"	1-1/2"	6"	177-2376	177-4376	\$53.12
3/8"	3"	6"	177-2336	177-4336	\$55.49
1/2"	3"	6"	177-2500	177-4500	\$84.68
1/2"	1-1/2"	6"	177-2506	177-4506	\$83.13
5/8"	3"	6"	177-2625	177-4625	\$126.25
3/4"	3"	6"	177-2750	177-4750	\$167.71
3/4"	4"	7"	177-2757	177-4757	\$205.38
1"	3"	6"	177-2100	177-4100	\$290.47
1"	4"	7"	177-2107	177-4107	\$359.39

SOLID CARBIDE END MILLS

EXTRA LONG LENGTH

SINGLE END SQUARE / 2-4 FLUTE

TIGN COAT-HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	174-2125	174-4125	\$14.39
3/16"	1-1/8"	3"	174-2187	174-4187	\$15.71
1/4"	1-1/2"	4"	174-2250	174-4250	\$22.15
1/4"	1-1/2"	6"	174-2256	174-4256	\$34.05
5/16"	1-5/8"	4"	174-2312	174-4312	\$27.45
5/16"	1-1/2"	6"	174-2316	174-4316	\$47.94
3/8"	1-3/4"	4"	174-2375	174-4375	\$33.76
3/8"	1-1/2"	6"	174-2376	174-4376	\$52.01
3/8"	3"	6"	174-2336	174-4336	\$52.98
1/2"	3"	6"	174-2500	174-4500	\$80.86
1/2"	1-1/2"	6"	174-2506	174-4506	\$74.07
5/8"	3"	6"	174-2625	174-4625	\$105.25
3/4"	3"	6"	174-2750	174-4750	\$141.93
3/4"	4"	7"	174-2757	174-4757	\$173.40
1"	3"	6"	174-2100	174-4100	\$262.81
1"	4"	7"	174-2107	174-4107	\$326.67

SOLID CARBIDE END MILLS

EXTRA LONG LENGTH
SINGLE END BALL / 2-4 FLUTE
TICN COAT-HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	179-2125	179-4125	\$17.98
3/16"	1-1/8"	3"	179-2187	179-4187	\$20.45
1/4"	1-1/2"	4"	179-2250	179-4250	\$28.46
1/4"	1-1/2"	6"	179-2256	179-4256	\$38.02
5/16"	1-5/8"	4"	179-2312	179-4312	\$35.21
5/16"	1-1/2"	6"	179-2316	179-4316	\$51.04
3/8"	1-3/4"	4"	179-2375	179-4375	\$43.94
3/8"	1-1/2"	6"	179-2376	179-4376	\$55.04
3/8"	3"	6"	179-2336	179-4336	\$57.95
1/2"	3"	6"	179-2500	179-4500	\$92.50
1/2"	1-1/2"	6"	179-2506	179-4506	\$89.59
5/8"	3"	6"	179-2625	179-4625	\$132.41
3/4"	3"	6"	179-2750	179-4750	\$174.04
3/4"	4"	7"	179-2757	179-4757	\$212.20
1"	3"	6"	179-2100	179-4100	\$301.61
1"	4"	7"	179-2107	179-4107	\$371..30

SOLID CARBIDE END MILLS

EXTRA LONG LENGTH

**SINGLE END SQUARE / 2-4 FLUTE
ALTiN COATED - **HTC** HARD COAT**



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	180-2125	180-4125	\$14.84
3/16"	1-1/8"	3"	180-2187	180-4187	\$16.20
1/4"	1-1/2"	4"	180-2250	180-4250	\$22.84
1/4"	1-1/2"	6"	180-2256	180-4256	\$35.10
5/16"	1-5/8"	4"	180-2312	180-4312	\$28.30
5/16"	1-1/2"	6"	180-2316	180-4316	\$49.42
3/8"	1-3/4"	4"	180-2375	180-4375	\$34.80
3/8"	1-1/2"	6"	180-2376	180-4376	\$53.62
3/8"	3"	6"	180-2336	180-4336	\$54.62
1/2"	3"	6"	180-2500	180-4500	\$83.36
1/2"	1-1/2"	6"	180-2506	180-4506	\$76.36
5/8"	3"	6"	180-2625	180-4625	\$108.50
3/4"	3"	6"	180-2750	180-4750	\$146.32
3/4"	4"	7"	180-2757	180-4757	\$178.76
1"	3"	6"	180-2100	180-4100	\$270.94
1"	4"	7"	180-2107	180-4107	\$336.78

SOLID CARBIDE END MILLS

EXTRA LONG LENGTH

**SINGLE END BALL / 2-4 FLUTE
ALTiN COATED - HTC HARD COAT**



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1"	3"	185-2125	185-4125	\$18.54
3/16"	1-1/8"	3"	185-2187	185-4187	\$21.08
1/4"	1-1/2"	4"	185-2250	185-4250	\$29.34
1/4"	1-1/2"	6"	185-2256	185-4256	\$39.20
5/16"	1-5/8"	4"	185-2312	185-4312	\$36.30
5/16"	1-1/2"	6"	185-2316	185-4316	\$55.77
3/8"	1-3/4"	4"	185-2375	185-4375	\$55.30
3/8"	1-1/2"	6"	185-2376	185-4376	\$56.74
3/8"	3"	6"	185-2336	185-4336	\$59.74
1/2"	3"	6"	185-2500	185-4500	\$95.36
1/2"	1-1/2"	6"	185-2506	185-4506	\$92.36
5/8"	3"	6"	185-2625	185-4625	\$135.50
3/4"	3"	6"	185-2750	185-4750	\$179.42
3/4"	4"	7"	185-2757	185-4757	\$218.76
1"	3"	6"	185-2100	185-4100	\$310.94
1"	4"	7"	185-2107	185-4107	\$382.78

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	100-2013	100-3013	100-4013	\$5.70
3/64"	3/32"	1-1/2"	100-2046	100-3046	100-4046	\$5.70
1/16"	1/8"	1-1/2"	100-2062	100-3062	100-4062	\$4.56
3/32"	3/16"	1-1/2"	100-2093	100-3093	100-4093	\$4.00
1/8"	1/4"	1-1/2"	100-2125	100-3125	100-4125	\$3.80
5/32"	5/16"	2"	100-2156	100-3156	100-4156	\$8.46
3/16"	3/8"	2"	100-2187	100-3187	100-4187	\$8.18
7/32"	7/16"	2"	100-2218	100-3218	100-4218	\$9.88
1/4"	1/2"	2"	100-2250	100-3250	100-4250	\$8.08
5/16"	1/2"	2"	100-2312	100-3312	100-4312	\$10.92
3/8"	5/8"	2"	100-2375	100-3375	100-4375	\$13.88
7/16"	5/8"	2-1/2"	100-2437	100-3437	100-4437	\$19.00
1/2"	5/8"	2-1/2"	100-2500	100-3500	100-4500	\$23.76
5/8"	3/4"	3"	100-2625	100-3625	100-4625	\$48.46
3/4"	1"	3"	100-2750	100-3750	100-4750	\$67.46
1"	1"	3"	100-2100	100-3100	100-4100	\$119.60

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END BALL

2-3-4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	105-2031	105-3031	105-4031	\$8.56
3/64"	3/32"	1-1/2"	105-2046	105-3046	105-4046	\$8.56
1/16"	1/8"	1-1/2"	105-2062	105-3062	105-4062	\$7.60
3/32"	3/16"	1-1/2"	105-2093	105-3093	105-4093	\$7.60
1/8"	1/4"	1-1/2"	105-2125	105-3125	105-4125	\$6.08
5/32"	5/16"	2"	105-2156	105-3156	105-4156	\$10.08
3/16"	3/8"	2"	105-2187	105-3187	105-4187	\$10.08
7/32"	7/16"	2"	105-2218	105-3218	105-4218	\$12.36
1/4"	1/2"	2"	105-2250	105-3250	105-4250	\$11.60
5/16"	1/2"	2"	105-2312	105-3312	105-4312	\$14.82
3/8"	5/8"	2"	105-2375	105-3375	105-4375	\$18.06
7/16"	5/8"	2-1/2"	105-2437	105-3437	105-4437	\$27.56
1/2"	5/8"	2-1/2"	105-2500	105-3500	105-4500	\$30.40
5/8"	3/4"	3"	105-2625	105-3625	105-4625	\$57.96
3/4"	1"	3"	105-2750	105-3750	105-4750	\$79.80
1"	1"	3"	105-2100	105-3100	105-4100	\$153.70

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	107-2031	107-3031	107-4031	\$7.00
3/64"	3/32"	1-1/2"	107-2046	107-3046	107-4046	\$7.00
1/16"	1/8"	1-1/2"	107-2062	107-3062	107-4062	\$6.26
3/32"	3/16"	1-1/2"	107-2093	107-3093	107-4093	\$5.50
1/8"	1/4"	1-1/2"	107-2125	107-3125	107-4125	\$5.50
5/32"	5/16"	2"	107-2156	107-3156	107-4156	\$10.40
3/16"	3/8"	2"	107-2187	107-3187	107-4187	\$10.20
7/32"	7/16"	2"	107-2218	107-3218	107-4218	\$13.20
1/4"	1/2"	2"	107-2250	107-3250	107-4250	\$12.80
5/16"	1/2"	2"	107-2312	107-3312	107-4312	\$16.00
3/8"	5/8"	2"	107-2375	107-3375	107-4375	\$18.00
7/16"	5/8"	2-1/2"	107-2437	107-3437	107-4437	\$24.50
1/2"	5/8"	2-1/2"	107-2500	107-3500	107-4500	\$29.00
5/8"	3/4"	3"	107-2625	107-3625	107-4625	\$56.00
3/4"	1"	3"	107-2750	107-3750	107-4750	\$72.00
1"	1"	3"	107-2100	107-3100	107-4100	\$135.00

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END BALL

2-3-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	109-2031	109-3031	109-4031	\$9.70
3/64"	3/32"	1-1/2"	109-2046	109-3046	109-4046	\$9.60
1/16"	1/8"	1-1/2"	109-2062	109-3062	109-4062	\$8.80
3/32"	3/16"	1-1/2"	109-2093	109-3093	109-4093	\$8.50
1/8"	1/4"	1-1/2"	109-2125	109-3125	109-4125	\$7.20
5/32"	5/16"	2"	109-2156	109-3156	109-4156	\$12.00
3/16"	3/8"	2"	109-2187	109-3187	109-4187	\$11.80
7/32"	7/16"	2"	109-2218	109-3218	109-4218	\$16.00
1/4"	1/2"	2"	109-2250	109-3250	109-4250	\$15.60
5/16"	1/2"	2"	109-2312	109-3312	109-4312	\$19.00
3/8"	5/8"	2"	109-2375	109-3375	109-4375	\$21.00
7/16"	5/8"	2-1/2"	109-2437	109-3437	109-4437	\$24.00
1/2"	5/8"	2-1/2"	109-2500	109-3500	109-4500	\$33.00
5/8"	3/4"	3"	109-2625	109-3625	109-4625	\$64.00
3/4"	1"	3"	109-2750	109-3750	109-4750	\$88.00
1"	1"	3"	109-2100	109-3100	109-4100	\$176.00

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

TICN COAT - HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	111-2031	111-3031	111-4031	\$7.18
3/64"	3/32"	1-1/2"	111-2046	111-3046	111-4046	\$7.18
1/16"	1/8"	1-1/2"	111-2062	111-3062	111-4062	\$6.07
3/32"	3/16"	1-1/2"	111-2093	111-3093	111-4093	\$5.51
1/8"	1/4"	1-1/2"	111-2125	111-3125	111-4125	\$5.34
5/32"	5/16"	2"	111-2156	111-3156	111-4156	\$10.61
3/16"	3/8"	2"	111-2187	111-3187	111-4187	\$10.32
7/32"	7/16"	2"	111-2218	111-3218	111-4218	\$13.87
1/4"	1/2"	2"	111-2250	111-3250	111-4250	\$12.13
5/16"	1/2"	2"	111-2312	111-3312	111-4312	\$16.65
3/8"	5/8"	2"	111-2375	111-3375	111-4375	\$19.50
7/16"	5/8"	2-1/2"	111-2437	111-3437	111-4437	\$27.08
1/2"	5/8"	2-1/2"	111-2500	111-3500	111-4500	\$31.68
5/8"	3/4"	3"	111-2625	111-3625	111-4625	\$60.49
3/4"	1"	3"	111-2750	111-3750	111-4750	\$80.84
1"	1"	3"	111-2100	111-3100	111-4100	\$144.92

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END SQUARE

2-3-4 FLUTE

ALTIN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	110-2031	110-3031	110-4031	\$7.40
3/64"	3/32"	1-1/2"	110-2046	110-3046	110-4046	\$7.40
1/16"	1/8"	1-1/2"	110-2062	110-3062	110-4062	\$6.26
3/32"	3/16"	1-1/2"	110-2093	110-3093	110-4093	\$5.68
1/8"	1/4"	1-1/2"	110-2125	110-3125	110-4125	\$5.50
5/32"	5/16"	2"	110-2156	110-3156	110-4156	\$10.94
3/16"	3/8"	2"	110-2187	110-3187	110-4187	\$10.64
7/32"	7/16"	2"	110-2218	110-3218	110-4218	\$14.30
1/4"	1/2"	2"	110-2250	110-3250	110-4250	\$12.50
5/16"	1/2"	2"	110-2312	110-3312	110-4312	\$17.16
3/8"	5/8"	2"	110-2375	110-3375	110-4375	\$20.10
7/16"	5/8"	2-1/2"	110-2437	110-3437	110-4437	\$27.92
1/2"	5/8"	2-1/2"	110-2500	110-3500	110-4500	\$32.66
5/8"	3/4"	3"	110-2625	110-3625	110-4625	\$62.36
3/4"	1"	3"	110-2750	110-3750	110-4750	\$83.34
1"	1"	3"	110-2100	110-3100	110-4100	\$149.40

SOLID CARBIDE END MILLS

STUB LENGTH

SINGLE END BALL

2-3-4 FLUTE

ALTiN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	3 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	115-2031	115-3031	115-4031	\$10.24
3/64"	3/32"	1-1/2"	115-2046	115-3046	115-4046	\$10.24
1/16"	1/8"	1-1/2"	115-2062	115-3062	115-4062	\$9.30
3/32"	3/16"	1-1/2"	115-2093	115-3093	115-4093	\$9.30
1/8"	1/4"	1-1/2"	115-2125	115-3125	115-4125	\$7.78
5/32"	5/16"	2"	115-2156	115-3156	115-4156	\$12.54
3/16"	3/8"	2"	115-2187	115-3187	115-4187	\$12.54
7/32"	7/16"	2"	115-2218	115-3218	115-4218	\$16.78
1/4"	1/2"	2"	115-2250	115-3250	115-4250	\$16.02
5/16"	1/2"	2"	115-2312	115-3312	115-4312	\$21.06
3/8"	5/8"	2"	115-2375	115-3375	115-4375	\$24.28
7/16"	5/8"	2-1/2"	115-2437	115-3437	115-4437	\$36.46
1/2"	5/8"	2-1/2"	115-2500	115-3500	115-4500	\$39.42
5/8"	3/4"	3"	115-2625	115-3625	115-4625	\$71.86
3/4"	1"	3"	115-2750	115-3750	115-4750	\$95.68
1"	1"	3"	115-2100	115-3100	115-4100	\$185.50

SOLID CARBIDE END MILLS

DOUBLE END - STUB LENGTH

DOUBLE END SQUARE AND BALL

2-4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	190-2031	190-4031	\$9.00
3/64"	3/32"	1-1/2"	190-2046	190-4046	\$9.00
1/16"	1/8"	1-1/2"	190-2062	190-4062	\$8.00
3/32"	3/16"	1-1/2"	190-2093	190-4093	\$7.60
7/64"	7/32"	1-1/2"	190-2109	190-4109	\$7.40
1/8"	1/4"	1-1/2"	190-2125	190-4125	\$7.20
5/32"	5/16"	2"	190-2156	190-4156	\$11.00
3/16"	3/8"	2"	190-2187	190-4187	\$10.50
7/32"	3/8"	2-1/2"	190-2218	190-4218	\$12.40
1/4"	1/2"	2-1/2"	190-2250	190-4250	\$12.20
9/32"	1/2"	2-1/2"	190-2281	190-4281	\$15.00
5/16"	1/2"	2-1/2"	190-2312	190-4312	\$14.60
3/8"	9/16"	2-1/2"	190-2375	190-4375	\$19.00
7/16"	9/16"	2-3/4"	190-2437	190-4437	\$29.00
1/2"	5/8"	3"	190-2500	190-4500	\$32.00
9/16"	11/16"	3-1/2"	190-2562	190-4562	\$70.00
5/8"	11/16"	3-1/2"	190-2625	190-4625	\$68.00
3/4"	7/8"	4"	190-2750	190-4750	\$86.00

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	195-2031	195-4031	\$16.00
3/64"	3/32"	1-1/2"	195-2046	195-4046	\$16.00
1/16"	1/8"	1-1/2"	195-2062	195-4062	\$14.40
3/32"	3/16"	1-1/2"	195-2093	195-4093	\$14.00
7/64"	7/32"	1-1/2"	195-2109	195-4109	\$14.00
1/8"	1/4"	1-1/2"	195-2125	195-4125	\$13.60
5/32"	5/16"	2"	195-2156	195-4156	\$16.00
3/16"	3/8"	2"	195-2187	195-4187	\$15.60
7/32"	3/8"	2-1/2"	195-2218	195-4218	\$16.60
1/4"	1/2"	2-1/2"	195-2250	195-4250	\$16.20
9/32"	1/2"	2-1/2"	195-2281	195-4281	\$19.00
5/16"	1/2"	2-1/2"	195-2312	195-4312	\$18.00
3/8"	9/16"	2-1/2"	195-2375	195-4375	\$28.00
7/16"	9/16"	2-3/4"	195-2437	195-4437	\$36.00
1/2"	5/8"	3"	195-2500	195-4500	\$42.00
9/16"	11/16"	3-1/2"	195-2562	195-4562	\$94.00
5/8"	11/16"	3-1/2"	195-2625	195-4625	\$88.00
3/4"	7/8"	4"	195-2750	195-4750	\$112.00

SOLID CARBIDE END MILLS

DOUBLE END - STUB LENGTH

DOUBLE END SQUARE AND BALL

2-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	197-2031	190-4031	\$10.20
3/64"	3/32"	1-1/2"	197-2046	197-4046	\$10.10
1/16"	1/8"	1-1/2"	197-2062	197-4062	\$8.88
3/32"	3/16"	1-1/2"	197-2093	197-4093	\$8.80
7/64"	7/32"	1-1/2"	197-2109	197-4109	\$8.80
1/8"	1/4"	1-1/2"	197-2125	197-4125	\$8.70
5/32"	5/16"	2"	197-2156	197-4156	\$12.30
3/16"	3/8"	2"	197-2187	197-4187	\$12.20
7/32"	3/8"	2-1/2"	197-2218	197-4218	\$14.72
1/4"	1/2"	2-1/2"	197-2250	197-4250	\$14.50
9/32"	1/2"	2-1/2"	197-2281	197-4281	\$17.90
5/16"	1/2"	2-1/2"	197-2312	197-4312	\$17.50
3/8"	9/16"	2-1/2"	197-2375	197-4375	\$21.90
7/16"	9/16"	2-3/4"	197-2437	197-4437	\$33.68
1/2"	5/8"	3"	197-2500	197-4500	\$36.60
9/16"	11/16"	3-1/2"	197-2562	197-4562	\$66.10
5/8"	11/16"	3-1/2"	197-2625	197-4625	\$77.32
3/4"	7/8"	4"	197-2750	197-4750	\$98.36

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	199-2031	199-4031	\$17.00
3/64"	3/32"	1-1/2"	199-2046	199-4046	\$17.00
1/16"	1/8"	1-1/2"	199-2062	199-4062	\$15.80
3/32"	3/16"	1-1/2"	199-2093	199-4093	\$15.20
7/64"	7/32"	1-1/2"	199-2109	199-4109	\$15.20
1/8"	1/4"	1-1/2"	199-2125	199-4125	\$14.90
5/32"	5/16"	2"	199-2156	199-4156	\$17.10
3/16"	3/8"	2"	199-2187	199-4187	\$16.80
7/32"	3/8"	2-1/2"	199-2218	199-4218	\$18.10
1/4"	1/2"	2-1/2"	199-2250	199-4250	\$18.00
9/32"	1/2"	2-1/2"	199-2281	199-4281	\$21.00
5/16"	1/2"	2-1/2"	199-2312	199-4312	\$20.50
3/8"	9/16"	2-1/2"	199-2375	199-4375	\$31.00
7/16"	9/16"	2-3/4"	199-2437	199-4437	\$42.00
1/2"	5/8"	3"	199-2500	199-4500	\$48.00
9/16"	11/16"	3-1/2"	199-2562	199-4562	\$102.00
5/8"	11/16"	3-1/2"	199-2625	199-4625	\$96.00
3/4"	7/8"	4"	199-2750	199-4750	\$122.00

SOLID CARBIDE END MILLS

DOUBLE END - STUB LENGTH

DOUBLE END SQUARE AND BALL

2-4 FLUTE

TICN COAT- HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	192-2031	192-4031	\$9.70
3/64"	3/32"	1-1/2"	192-2046	192-4046	\$9.70
1/16"	1/8"	1-1/2"	192-2062	192-4062	\$8.73
3/32"	3/16"	1-1/2"	192-2093	192-4093	\$8.34
7/64"	7/32"	1-1/2"	192-2109	192-4109	\$8.15
1/8"	1/4"	1-1/2"	192-2125	192-4125	\$7.96
5/32"	5/16"	2"	192-2156	192-4156	\$13.19
3/16"	3/8"	2"	192-2187	192-4187	\$12.61
7/32"	3/8"	2-1/2"	192-2218	192-4218	\$16.49
1/4"	1/2"	2-1/2"	192-2250	192-4250	\$15.91
9/32"	1/2"	2-1/2"	192-2281	192-4281	\$20.37
5/16"	1/2"	2-1/2"	192-2312	192-4312	\$19.79
3/8"	9/16"	2-1/2"	192-2375	192-4375	\$24.25
7/16"	9/16"	2-3/4"	192-2437	192-4437	\$35.89
1/2"	5/8"	3"	192-2500	192-4500	\$36.86
9/16"	11/16"	3-1/2"	192-2562	192-4562	\$77.60
5/8"	11/16"	3-1/2"	192-2625	192-4625	\$73.72
3/4"	7/8"	4"	192-2750	192-4750	\$98.94

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	194-2031	194-4031	\$16.49
3/64"	3/32"	1-1/2"	194-2046	194-4046	\$16.49
1/16"	1/8"	1-1/2"	194-2062	194-4062	\$15.52
3/32"	3/16"	1-1/2"	194-2093	194-4093	\$15.52
7/64"	7/32"	1-1/2"	194-2109	194-4109	\$15.13
1/8"	1/4"	1-1/2"	194-2125	194-4125	\$15.13
5/32"	5/16"	2"	194-2156	194-4156	\$18.04
3/16"	3/8"	2"	194-2187	194-4187	\$17.46
7/32"	3/8"	2-1/2"	194-2218	194-4218	\$20.37
1/4"	1/2"	2-1/2"	194-2250	194-4250	\$19.40
9/32"	1/2"	2-1/2"	194-2281	194-4281	\$24.25
5/16"	1/2"	2-1/2"	194-2312	194-4312	\$23.28
3/8"	9/16"	2-1/2"	194-2375	194-4375	\$32.98
7/16"	9/16"	2-3/4"	194-2437	194-4437	\$42.68
1/2"	5/8"	3"	194-2500	194-4500	\$48.50
9/16"	11/16"	3-1/2"	194-2562	194-4562	\$104.76
5/8"	11/16"	3-1/2"	194-2625	194-4625	\$99.91
3/4"	7/8"	4"	194-2750	194-4750	\$128.04

SOLID CARBIDE END MILLS

DOUBLE END - STUB LENGTH

DOUBLE END SQUARE AND BALL
2-4 FLUTE

ALTiN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	200-2031	200-4031	\$10.00
3/64"	3/32"	1-1/2"	200-2046	200-4046	\$10.00
1/16"	1/8"	1-1/2"	200-2062	200-4062	\$9.00
3/32"	3/16"	1-1/2"	200-2093	200-4093	\$8.60
7/64"	7/32"	1-1/2"	200-2109	200-4109	\$8.40
1/8"	1/4"	1-1/2"	200-2125	200-4125	\$8.20
5/32"	5/16"	2"	200-2156	200-4156	\$13.60
3/16"	3/8"	2"	200-2187	200-4187	\$13.00
7/32"	3/8"	2-1/2"	200-2218	200-4218	\$17.00
1/4"	1/2"	2-1/2"	200-2250	200-4250	\$16.40
9/32"	1/2"	2-1/2"	200-2281	200-4281	\$21.00
5/16"	1/2"	2-1/2"	200-2312	200-4312	\$20.40
3/8"	9/16"	2-1/2"	200-2375	200-4375	\$25.00
7/16"	9/16"	2-3/4"	200-2437	200-4437	\$37.00
1/2"	5/8"	3"	200-2500	200-4500	\$38.00
9/16"	11/16"	3-1/2"	200-2562	200-4562	\$80.00
5/8"	11/16"	3-1/2"	200-2625	200-4625	\$76.00
3/4"	7/8"	4"	200-2750	200-4750	\$102.00

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/32"	1/16"	1-1/2"	205-2031	205-4031	\$17.00
3/64"	3/32"	1-1/2"	205-2046	205-4046	\$17.00
1/16"	1/8"	1-1/2"	205-2062	205-4062	\$16.00
3/32"	3/16"	1-1/2"	205-2093	205-4093	\$16.00
7/64"	7/32"	1-1/2"	205-2109	205-4109	\$15.60
1/8"	1/4"	1-1/2"	205-2125	205-4125	\$15.60
5/32"	5/16"	2"	205-2156	205-4156	\$18.60
3/16"	3/8"	2"	205-2187	205-4187	\$18.00
7/32"	3/8"	2-1/2"	205-2218	205-4218	\$21.00
1/4"	1/2"	2-1/2"	205-2250	205-4250	\$20.00
9/32"	1/2"	2-1/2"	205-2281	205-4281	\$25.00
5/16"	1/2"	2-1/2"	205-2312	205-4312	\$24.00
3/8"	9/16"	2-1/2"	205-2375	205-4375	\$34.00
7/16"	9/16"	2-3/4"	205-2437	205-4437	\$44.00
1/2"	5/8"	3"	205-2500	205-4500	\$50.00
9/16"	11/16"	3-1/2"	205-2562	205-4562	\$108.00
5/8"	11/16"	3-1/2"	205-2625	205-4625	\$103.00
3/4"	7/8"	4"	205-2750	205-4750	\$132.00

SOLID CARBIDE END MILLS

DOUBLE END - W/WELDON FLATS • DOUBLE END SQUARE / 2-4 FLUTE
UNCOATED

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3/32"	3/8"	5/16"	3"	210-2093	210-4093	\$28.40
1/8"	3/8"	3/8"	3-1/16"	210-2125	210-4125	\$28.00
5/32"	3/8"	7/16"	3-1/8"	210-2156	210-4156	\$27.60
3/16"	3/8"	1/2"	3-1/4"	210-2187	210-4187	\$27.00
7/32"	3/8"	9/16"	3-1/2"	210-2218	210-4218	\$27.00
1/4"	3/8"	5/8"	3-1/2"	210-2250	210-4250	\$27.00
5/16"	3/8"	3/4"	3-1/2"	210-2312	210-4312	\$28.40
11/32"	3/8"	3/4"	3-1/2"	210-2343	210-4343	\$30.40
3/8"	3/8"	3/4"	3-1/2"	210-2375	210-4375	\$30.00
7/16"	1/2"	7/8"	4"	210-2437	210-4437	\$46.00
1/2"	1/2"	1"	4"	210-2500	210-4500	\$42.00
9/16"	5/8"	1-1/4"	5"	210-2532	210-4532	\$78.00
5/8"	5/8"	1-1/2"	6"	210-2625	210-4625	\$84.00
3/4"	3/4"	1-1/2"	6"	210-2750	210-4750	\$122.00



Series 215

SOLID CARBIDE END MILLS

DOUBLE END - W/WELDON FLATS • DOUBLE END BALL / 2-4 FLUTE
UNCOATED

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3/32"	3/8"	5/16"	3"	215-2093	215-4093	\$36.00
1/8"	3/8"	3/8"	3-1/16"	215-2125	215-4125	\$34.00
5/32"	3/8"	7/16"	3-1/8"	215-2156	215-4156	\$34.00
3/16"	3/8"	1/2"	3-1/4"	215-2187	215-4187	\$33.00
7/32"	3/8"	9/16"	3-1/2"	215-2218	215-4218	\$33.00
1/4"	3/8"	5/8"	3-1/2"	215-2250	215-4250	\$33.00
5/16"	3/8"	3/4"	3-1/2"	215-2312	215-4312	\$38.00
11/32"	3/8"	3/4"	3-1/2"	215-2343	215-4343	\$38.00
3/8"	3/8"	3/4"	3-1/2"	215-2375	215-4375	\$38.00
7/16"	1/2"	7/8"	4"	215-2437	215-4437	\$56.00
1/2"	1/2"	1"	4"	215-2500	215-4500	\$54.00
9/16"	5/8"	1-1/4"	5"	215-2532	215-4532	\$98.86
5/8"	5/8"	1-1/2"	6"	215-2625	215-4625	\$116.00
3/4"	3/4"	1-1/2"	6"	215-2750	215-4750	\$156.00



Series 212



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS

DOUBLE END - W/WELDON FLATS • DOUBLE END SQUARE / 2-4 FLUTE
ALTIN COATED - HTC HARD COAT

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3/32"	3/8"	5/16"	3"	212-2093	212-4093	\$32.40
1/8"	3/8"	3/8"	3-1/16"	212-2125	212-4125	\$32.00
5/32"	3/8"	7/16"	3-1/8"	212-2156	212-4156	\$32.10
3/16"	3/8"	1/2"	3-1/4"	212-2187	212-4187	\$31.50
7/32"	3/8"	9/16"	3-1/2"	212-2218	212-4218	\$31.50
1/4"	3/8"	5/8"	3-1/2"	212-2250	212-4250	\$31.50
5/16"	3/8"	3/4"	3-1/2"	212-2312	212-4312	\$33.10
11/32"	3/8"	3/4"	3-1/2"	212-2343	212-4343	\$35.10
3/8"	3/8"	3/4"	3-2"	212-2375	212-4375	\$34.70
7/16"	1/2"	7/8"	4"	212-2437	212-4437	\$51.20
1/2"	1/2"	1"	4"	212-2500	212-4500	\$49.00
9/16"	5/8"	1-1/4"	5"	212-2532	212-4532	\$87.00
5/8"	5/8"	1-1/2"	6"	212-2625	212-4625	\$93.00
3/4"	3/4"	1-2"	6"	212-2750	212-4750	\$132.00



Series 217

SOLID CARBIDE END MILLS

DOUBLE END - W/WELDON FLATS • DOUBLE END BALL / 2-4 FLUTE
ALTIN COATED - HTC HARD COAT

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3/32"	3/8"	5/16"	3"	217-2093	217-4093	\$40.00
1/8"	3/8"	3/8"	3-1/16"	217-2125	217-4125	\$38.00
5/32"	3/8"	7/16"	3-1/8"	217-2156	217-4156	\$38.50
3/16"	3/8"	1/2"	3-1/4"	217-2187	217-4187	\$37.50
7/32"	3/8"	9/16"	3-1/2"	217-2218	217-4218	\$37.50
1/4"	3/8"	5/8"	3-1/2"	217-2250	217-4250	\$37.50
5/16"	3/8"	3/4"	3-1/2"	217-2312	217-4312	\$42.70
11/32"	3/8"	3/4"	3-1/2"	217-2343	217-4343	\$43.10
3/8"	3/8"	3/4"	3-2"	217-2375	217-4375	\$42.70
7/16"	1/2"	7/8"	4"	217-2437	217-4437	\$61.20
1/2"	1/2"	1"	4"	217-2500	217-4500	\$61.00
9/16"	5/8"	1-1/4"	5"	217-2532	217-4532	\$107.86
5/8"	5/8"	1-1/2"	6"	217-2625	217-4625	\$125.00
3/4"	3/4"	1-2"	6"	217-2750	217-4750	\$166.00



SOLID CARBIDE END MILLS

EXTRA-EXTRA LONG LENGTHS

SINGLE END SQUARE

2-4 FLUTE

UNCOATED & ALTiN COATED - **HTC** HARD COAT



UNCOATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/4"	3"	6"	770-2256	770-4256	\$34.50
5/16"	3"	6"	770-2316	770-4316	\$42.18
3/8"	4"	7"	770-2357	770-4357	\$52.88
7/16"	3"	6"	770-2436	770-4436	\$64.32
1/2"	4"	7"	770-2507	770-4507	\$77.90
1/2"	5"	8"	770-2508	770-4508	\$91.24
5/8"	4"	7"	770-2627	770-4627	\$103.94
5/8"	5"	8"	770-2628	770-4628	\$127.48
5/8"	6"	9"	770-2629	770-4629	\$159.18
3/4"	5"	8"	770-2758	770-4758	\$176.00
3/4"	6"	9"	770-2759	770-4759	\$192.32
3/4"	8"	12"	770-2712	770-4712	\$224.00
1"	5"	8"	770-2108	770-4108	\$386.00
1"	6"	9"	770-2109	770-4109	\$448.00
1"	7"	10"	770-2110	770-4110	\$482.00
1"	8"	12"	770-2112	770-4112	\$537.00



ALTiN COATED - HTC HARD COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/4"	3"	6"	777-2256	777-4256	\$45.15
5/16"	3"	6"	777-2316	777-4316	\$53.22
3/8"	4"	7"	777-2357	777-4357	\$64.81
7/16"	3"	6"	777-2436	777-4436	\$73.94
1/2"	4"	7"	777-2507	777-4507	\$89.17
1/2"	5"	8"	777-2508	777-4508	\$114.28
5/8"	4"	7"	777-2627	777-4627	\$118.13
5/8"	5"	8"	777-2628	777-4628	\$143.71
5/8"	6"	9"	777-2629	777-4629	\$176.08
3/4"	5"	8"	777-2758	777-4758	\$194.74
3/4"	6"	9"	777-2759	777-4759	\$207.33
3/4"	8"	12"	777-2712	777-4712	\$241.17
1"	5"	8"	777-2108	777-4108	\$403.09
1"	6"	9"	777-2109	777-4109	\$465.61
1"	7"	10"	777-2110	777-4110	\$503.96
1"	8"	12"	777-2112	777-4112	\$552.19

SOLID CARBIDE END MILLS

EXTRA-EXTRA LONG LENGTHS

SINGLE END BALL
2-4 FLUTE

UNCOATED & ALTiN COATED - **HTC** HARD COAT



UNCOATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/4"	3"	6"	775-2256	775-4256	\$38.50
5/16"	3"	6"	775-2316	775-4316	\$46.90
3/8"	4"	7"	775-2357	775-4357	\$57.00
7/16"	3"	6"	775-2436	775-4436	\$70.00
1/2"	4"	7"	775-2507	775-4507	\$83.00
1/2"	5"	8"	775-2508	775-4508	\$97.00
5/8"	4"	7"	775-2627	775-4627	\$113.00
5/8"	5"	8"	775-2628	775-4628	\$135.00
5/8"	6"	9"	775-2629	775-4629	\$169.00
3/4"	5"	8"	775-2758	775-4758	\$193.00
3/4"	6"	9"	775-2759	775-4759	\$218.00
3/4"	8"	12"	775-2712	775-4712	\$243.00
1"	5"	8"	775-2108	775-4108	\$407.00
1"	6"	9"	775-2109	775-4109	\$479.00
1"	7"	10"	775-2110	775-4110	\$509.00
1"	8"	12"	775-2112	775-4112	\$561.00

ALTiN COATED - **HTC** HARD COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/4"	3"	6"	778-2256	778-4256	\$49.15
5/16"	3"	6"	778-2316	778-4316	\$57.94
3/8"	4"	7"	778-2357	778-4357	\$68.93
7/16"	3"	6"	778-2436	778-4436	\$79.62
1/2"	4"	7"	778-2507	778-4507	\$94.27
1/2"	5"	8"	778-2508	778-4508	\$120.04
5/8"	4"	7"	778-2627	778-4627	\$127.19
5/8"	5"	8"	778-2628	778-4628	\$151.23
5/8"	6"	9"	778-2629	778-4629	\$185.90
3/4"	5"	8"	778-2758	778-4758	\$211.94
3/4"	6"	9"	778-2759	778-4759	\$233.01
3/4"	8"	12"	778-2712	778-4712	\$260.77
1"	5"	8"	778-2108	778-4108	\$430.09
1"	6"	9"	778-2109	778-4109	\$496.61
1"	7"	10"	778-2110	778-4110	\$530.96
1"	8"	12"	778-2112	778-4112	\$576.19

SOLID CARBIDE END MILLS

STRAIGHT FLUTE • SINGLE END • 2-4 FLUTE
UNCOATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1/2"	1-1/2"	780-2125	780-4125	\$5.50
5/32"	5/8"	2"	780-2156	780-4156	\$10.00
3/16"	5/8"	2"	780-2187	780-4187	\$9.60
1/4"	3/4"	2-1/2"	780-2250	780-4250	\$12.20
9/32"	13/16"	2-1/2"	780-2282	780-4282	\$17.50
5/16"	13/16"	2-1/2"	780-2312	780-4312	\$16.50
3/8"	1"	2-1/2"	780-2375	780-4375	\$20.30
7/16"	1"	2-3/4"	780-2437	780-4437	\$28.20
1/2"	1"	3"	780-2500	780-4500	\$34.50
5/8"	1-1/4"	3-1/2"	780-2625	780-4625	\$76.00
3/4"	1-1/2"	4"	780-2750	780-4750	\$104.00
1"	1-1/2"	4"	780-2100	780-4100	\$166.00



Series 795

SOLID CARBIDE END MILLS

LEFT HAND • SINGLE END SQUARE • 4 FLUTE
UNCOATED

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	4 FLUTE PART#	LIST PRICE
3/16"	5/8"	2"	795-18LH	\$17.20
1/4"	3/4"	2-1/2"	795-25LH	\$17.00
5/16"	13/16"	2-1/2"	795-31LH	\$23.00
3/8"	1"	2-1/2"	795-37LH	\$29.20
7/16"	1"	2-3/4"	795-43LH	\$42.00
1/2"	1"	3"	795-50LH	\$50.00
5/8"	1-1/4"	3-1/2"	795-62LH	\$87.00
3/4"	1-1/2"	4"	795-75LH	\$134.00
1"	1-1/2"	4"	795-10LH	\$186.00



SOLID CARBIDE END MILLS

6 FLUTE SQUARE

SINGLE END SQUARE

6 FLUTE

UNCOATED & **ALTIN COATED - HTC HARD COAT**



UNCOATED

ALTIN COATED - HTC HARD COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	6 FLUTE PART#	LIST PRICE
1/8"	1/2"	1-1/2"	790-6125	\$4.50
3/16"	5/8"	2"	790-6187	\$9.20
1/4"	3/4"	2-1/2"	790-6250	\$10.10
5/16"	7/8"	2-1/2"	790-6312	\$12.20
3/8"	1"	2-1/2"	790-6375	\$15.30
7/16"	1"	2-1/4"	790-6437	\$22.44
1/2"	1"	3"	790-6500	\$28.60
9/16"	1-1/4"	3-1/2"	790-6562	\$52.50
5/8"	1-1/4"	3-1/2"	790-6625	\$54.80
3/4"	1-1/2"	4"	790-6750	\$75.30
7/8"	1-1/2"	4"	790-6875	\$130.00
1"	1-1/2"	4"	790-6100	\$134.00

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	6 FLUTE PART#	LIST PRICE
1/8"	1/2"	1-1/2"	792-6125	\$6.28
3/16"	5/8"	2"	792-6187	\$11.80
1/4"	3/4"	2-1/2"	792-6250	\$14.76
5/16"	7/8"	2-1/2"	792-6312	\$18.76
3/8"	1"	2-1/2"	792-6375	\$21.86
7/16"	1"	2-1/4"	792-6437	\$31.82
1/2"	1"	3"	792-6500	\$37.98
9/16"	1-1/4"	3-1/2"	792-6562	\$67.14
5/8"	1-1/4"	3-1/2"	792-6625	\$69.44
3/4"	1-1/2"	4"	792-6750	\$92.02
7/8"	1-1/2"	4"	792-6875	\$159.26
1"	1-1/2"	4"	792-6100	\$163.24

SOLID CARBIDE END MILLS

LONG REACH • SINGLE END SQUARE • 2 FLUTE



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	LBS.	NO. OF FLUTES	CATALOG NO.	2 FLUTE PART#	UNCOATED LIST PRICE	2 FLUTE PART#	ALTIN COATED LIST PRICE
3/16	3/16	3/8	3	1-5/8	2	HSMM-2-6	95408	\$46.02	99691	\$50.43
1/4	1/4	3/8	4	2-1/8	2	HSMM-2-8	95412	\$52.40	99692	\$59.85
5/16	5/16	7/16	4	2-1/8	2	HSMM-2-10	95416	\$59.24	99693	\$66.69
3/8	3/8	1/2	4	2-1/8	2	HSMM-2-12	95420	\$64.18	99694	\$71.64
1/2	1/2	5/8	6	3-3/8	2	HSML-2-16	94928	\$89.58	99687	\$104.13
1/2	1/2	5/8	4	2-1/8	2	HSMM-2-16	95428	\$74.48	99695	\$89.03
5/8	5/8	3/4	6	3-3/8	2	HSML-2-20	94930	\$148.46	99698	\$164.92
5/8	5/8	3/4	6	2-3/8	2	HSMM-2-20	95430	\$139.98	99696	\$156.43
3/4	3/4	1	6	2-1/2	2	HSML-2-24	94932	\$194.68	99689	\$215.02
3/4	3/4	1	6	2-1/2	2	HSMM-2-24	95432	\$183.40	99697	\$203.73
1	1	1-1/4	7	4-3/8	2	HSML-2-32	94934	\$324.34	99690	\$351.89
1	1	1-1/4	6	3-3/8	2	HSMM-2-32	95434	\$282.18	99698	\$308.02

Series 765

SOLID CARBIDE END MILLS

LONG REACH • SINGLE END BALL • 2 FLUTE



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	LBS.	NO. OF FLUTES	CATALOG NO.	2 FLUTE PART#	UNCOATED LIST PRICE	2 FLUTE PART#	ALTIN COATED LIST PRICE
3/16	3/16	3/8	3	1-5/8	2	RHSMM-2-6	95508	\$49.83	99699	\$54.24
1/4	1/4	3/8	4	2-1/8	2	RHSMM-2-8	95512	\$56.64	99700	\$64.09
5/16	5/16	7/16	4	2-1/8	2	RHSMM-2-10	95516	\$63.48	99701	\$70.93
3/8	3/8	1/2	4	2-1/8	2	RHSMM-2-12	95520	\$70.54	99702	\$77.99
1/2	1/2	5/8	6	2-1/8	2	RHSML-2-16	95928	\$99.60	99707	\$114.15
1/2	1/2	5/8	4	3-3/8	2	RHSMM-2-16	95528	\$84.37	99703	\$98.93
5/8	5/8	3/4	6	3-3/8	2	RHSML-2-20	95530	\$158.34	99704	\$174.79
5/8	5/8	3/4	6	2-3/8	2	RHSMM-2-20	95930	\$166.81	99708	\$183.27
3/4	3/4	1	6	2-1/2	2	RHSML-2-24	95532	\$210.21	99705	\$230.54
3/4	3/4	1	6	3-3/8	2	RHSMM-2-24	95932	\$221.48	99709	\$241.82
1	1	1-1/4	6	3-3/8	2	RHSML-2-32	95534	\$324.48	99706	\$350.34
1	1	1-1/4	7	4-3/8	2	RHSMM-2-32	95934	\$366.83	99710	\$394.24

Series 772



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS

LONG REACH • SINGLE END SQUARE • 4 FLUTE



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	4 FLUTE PART#	UNCOATED LIST PRICE	4 FLUTE PART#	ALTiN COATED LIST PRICE
1/4	1/4	3/4	4	4	SHXL-4-8	96012	\$23.82	99739	\$31.28
5/16	5/16	13/16	4	4	SHXL-4-10	96016	\$28.95	99740	\$36.40
3/8	3/8	1	4	4	SHXL-4-12	96020	\$32.98	99741	\$40.44
7/16	7/16	1	6	4	SHXL-4-14	96025	\$45.99	99742	\$56.00
1/2	1/2	1	6	4	SHXL-4-16	96028	\$64.23	99743	\$78.78
5/8	5/8	1-1/4	6	4	SHXL-4-20	96030	\$97.25	99744	\$113.71
3/4	3/4	1-1/2	6	4	SHXL-4-24	96032	\$149.85	99745	\$170.18
1	1	1-1/2	6	4	SHXL-4-32	96034	\$243.48	99746	\$269.34

Series 774

SOLID CARBIDE END MILLS

LONG REACH • SINGLE END BALL • 4 FLUTE



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	4 FLUTE PART#	UNCOATED LIST PRICE	4 FLUTE PART#	ALTiN COATED LIST PRICE
1/4	1/4	3/4	4	4	RSHXL-4-8	96112	\$27.06	99731	\$34.53
5/16	5/16	13/16	4	4	RSHXL-4-10	96116	\$33.43	99732	\$40.87
3/8	3/8	1	4	4	RSHXL-4-12	96120	\$38.51	99733	\$45.96
7/16	7/16	1	4	4	RSHXL-4-14	96125	\$53.17	99734	\$60.61
1/2	1/2	1	6	4	RSHXL-4-16	96128	\$71.93	99735	\$86.47
5/8	5/8	1-1/4	6	4	RSHXL-4-20	96130	\$111.72	99736	\$126.26
3/4	3/4	1-1/2	6	4	RSHXL-4-24	96132	\$170.31	99737	\$184.85
1	1	1-1/2	6	4	RSHXL-4-32	96134	\$277.72	99738	\$292.27

SOLID CARBIDE END MILLS

EXTRA LONG REACH • SINGLE END SQUARE / 2-4 FLUTE
UNCOATED



CUTTER DIA	LENGTH OF CUT	CORNER RADIUS	OVERALL REACH	OVERALL LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/4"	3/8"	.015	4-3/8"	6"	750-2256	750-4256	\$51.00
5/16"	1/2"	.015	4-5/16"	6"	750-2316	750-4316	\$57.00
3/8"	1/2"	.030	4-5/16"	6"	750-2376	750-4376	\$65.00
1/2"	3/4"	.030	5-3/4"	8"	750-2508	750-4508	\$107.00
5/8"	7/8"	.030	5-5/8"	8"	750-2628	750-4628	\$137.00
3/4"	1"	.030	5-5/8"	8"	750-2758	750-4758	\$213.00
1"	1-1/4"	.060	5-5/8"	10"	750-2110	750-4110	\$386.00

Series 755

SOLID CARBIDE END MILLS

EXTRA LONG REACH • SINGLE END BALL / 2-4 FLUTE
UNCOATED



CUTTER DIA	LENGTH OF CUT	OVERALL REACH	OVERALL LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/4"	3/8"	4-3/8"	6"	755-2256	755-4256	\$54.00
5/16"	1/2"	4-5/16"	6"	755-2316	755-4316	\$59.00
3/8"	1/2"	4-5/16"	6"	755-2376	755-4376	\$68.00
1/2"	3/4"	5-3/4"	8"	755-2508	755-4508	\$113.00
5/8"	7/8"	5-5/8"	8"	755-2628	755-4628	\$142.00
3/4"	1"	5-5/8"	8"	755-2758	755-4758	\$221.00
1"	1-1/4"	5-5/8"	10"	755-2110	755-4110	\$394.00



HTC-HOT MILLS

HTC-HOT MILLS

OUR UNIQUE HIGH PERFORMANCE 4-FLUTE FINISHING VARIABLE-INDEXED ACCELERATOR CARBIDE END MILLS CUT STAINLESS STEEL AND OTHER TOUGH ALLOYS AT HIGH METAL REMOVAL RATES. SPECIAL TOOL GEOMETRICS OFFER REDUCED VIBRATION, GREATER STRENGTH, TOOL LIFE AND FEEDS & SPEEDS. OUR UNIQUE HIGH PERFORMANCE VARIABLE INDEXED 4-FLUTE ACCELERATOR CARBIDE END MILL STANDARD OFFERING INCLUDE:

- VARIABLE INDEXED FLUTE TO FLUTE; REDUCES VIBRATIONS ALLOWING INCREASED FEEDS & SPEEDS.
- ECCENTRIC-RADIAL O.D. RELIEVED; INCREASES TOOL STRENGTH ALLOWING GREATER FEEDS & SPEEDS.
- OUR BEST HARD COATING FOR HEAVY FAST METAL REMOVAL RATES—CAN BE USED DRY
- SHANK O.D. COOLANT GROOVE-EACH FLUTE; TO MAXIMIZE COOLING AND CHIP EVACUATION VELOCITY
- ECCENTRIC O.D. PRIMARY RELIEF
- 35 HELIX/RHC-RHS
- STD WITH CORNER RADIUS
- FLUTE DIAMETER +.000-.002
- SHANK DIAMETER -.0001-.0004
- HTC -ALTiN HARD COAT
- STD. WITH SHANK O.D. COOLANT GROVES FEED SLOTS MAXIMIZE COOLING & CHIP EVACUATION

HIGH PERFORMANCE 4-FLUTE FINISHING VARIABLE INDEXED CARBIDE END MILLS-THE ACCELERATOR SERIES

Series 800



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS

HTC HOT MILLS

SINGLE END SQUARE

4 FLUTE

ALTIN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	CORNER RADIUS	PART#	LIST PRICE
1/8"	1/2"	1-1/2"	.010	800-1250	\$12.00
3/16"	5/8"	2"	.010	800-1870	\$14.00
1/4"	3/4"	2-1/2"	.015	800-2500	\$18.00
5/16"	7/8"	2-1/2"	.015	800-3120	\$26.00
3/8"	1"	2-1/2"	.020	800-3750	\$32.00
7/16"	1-1/8"	2-3/4"	.025	800-4370	\$48.00
1/2"	1-1/4"	3"	.030	800-5000	\$58.00
5/8"	1-1/2"	3-1/2"	.030	800-6250	\$94.00
3/4"	1-3/4"	4"	.040	800-7500	\$136.00
1"	1-3/4"	4"	.045	800-1000	\$216.00

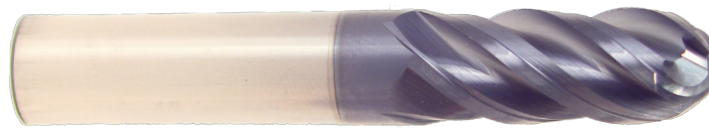
SOLID CARBIDE END MILLS

HTC BALL END HOT MILLS

SINGLE END BALL

4 FLUTE

ALTiN COATED - HTC HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1/8"	1/2"	1-1/2"	810-125B	\$16.46
3/16"	5/8"	2"	810-187B	\$18.24
1/4"	3/4"	2-1/2"	810-250B	\$26.00
5/16"	7/8"	2-1/2"	810-312B	\$36.00
3/8"	1"	2-1/2"	810-375B	\$40.00
7/16"	1-1/8"	2-3/4"	810-437B	\$56.00
1/2"	1-1/4"	3"	810-500B	\$72.00
5/8"	1-1/2"	3-1/2"	810-625B	\$128.00
3/4"	1-3/4"	4"	810-750B	\$175.00
1"	1-3/4"	4"	810-100B	\$278.00

SOLID CARBIDE END MILLS

HTC STUB HOT MILLS

SINGLE END SQUARE

4 FLUTE

ALTIN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	CORNER RADIUS	PART#	LIST PRICE
1/8"	1/4"	1-1/2"	.010	815-1250	\$10.00
3/16"	1/4"	2"	.010	815-1870	\$11.00
1/4"	5/16"	2"	.015	815-2500	\$16.00
5/16"	3/8"	2"	.015	815-3120	\$23.00
3/8"	1/2"	2"	.020	815-3750	\$29.00
7/16"	5/8"	2-1/2"	.025	815-4370	\$44.00
1/2"	5/8"	2-1/2"	.030	815-5000	\$53.00
5/8"	1"	3"	.030	815-6250	\$88.00
3/4"	1"	3"	.040	815-7500	\$129.00
1"	1"	3"	.045	815-1000	\$193.00

SOLID CARBIDE END MILLS

HTC STUB END HOT MILLS

SINGLE END BALL

4 FLUTE

ALTIN COATED - HTC HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1/8"	1/4"	1-1/2"	820-125B	\$14.00
3/16"	1/4"	2"	820-187B	\$16.00
1/4"	5/16"	2"	820-250B	\$24.00
5/16"	3/8"	2"	820-312B	\$32.00
3/8"	1/2"	2"	820-375B	\$37.00
7/16"	5/8"	2-1/2"	820-437B	\$51.00
1/2"	5/8"	2-1/2"	820-500B	\$66.00
5/8"	1"	3"	820-625B	\$121.00
3/4"	1"	3"	820-750B	\$164.00
1"	1"	3"	820-100B	\$263.00

Series 822



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS

HTC LONG REACH HOT MILLS

SINGLE END SQUARE

4 FLUTE

ALTIN COATED - HTC HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	CORNER RADIUS	PART#	LIST PRICE
1/4"	3/4"	4"	.015	822-2500	\$34.50
5/16"	7/8"	4"	.015	822-3120	\$36.20
3/8"	1"	4"	.020	822-3750	\$42.15
1/2"	1-1/4"	4"	.030	822-5000	\$78.00
1/2"	1-1/4"	6"	.030	822-5100	\$87.90
5/8"	1-1/2"	6"	.030	822-6255	\$153.00
3/4"	1-3/4"	6"	.040	822-7500	\$196.00
1"	1-3/4"	6"	.045	822-1000	\$278.00

SOLID CARBIDE END MILLS

BEEFY MILL • C/C, SE, STRAIGHT FLUTE • 2 FLUTE



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	2 FLUTE PART#	UNCOATED LIST PRICE	2 FLUTE PART#	ALTiN COATED LIST PRICE
1/8	1/8	1/2	1-1/2	2	SB-2-4	91704	\$11.58	99622	\$15.00
3/16	3/16	5/8	2	2	SB-2-6	91708	\$15.99	99623	\$19.41
1/4	1/4	3/4	2-1/2	2	SB-2-8	91712	\$20.20	99624	\$23.62
5/16	5/16	13/16	2-1/2	2	SB-2-10	91716	\$24.88	99625	\$30.41
3/8	3/8	1	2-1/2	2	SB-2-12	91720	\$29.49	99626	\$35.03
1/2	1/2	1	3	2	SB-2-16	91728	\$46.04	99627	\$52.24

Series 783

SOLID CARBIDE END MILLS

BEEFY MILL • BALL END, SE, STRAIGHT FLUTE • 2 FLUTE

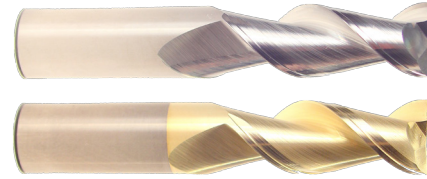


FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	2 FLUTE PART#	UNCOATED LIST PRICE	2 FLUTE PART#	ALTiN COATED LIST PRICE
1/8	1/8	1/2	1-1/2	2	RSB-2-4	91604	\$14.00	99628	\$17.42
3/16	3/16	5/8	2	2	RSB-2-6	91608	\$19.23	99629	\$22.65
1/4	1/4	3/4	2-1/2	2	RSB-2-8	91612	\$24.25	99630	\$27.68
5/16	5/16	13/16	2-1/2	2	RSB-2-10	91616	\$31.02	99631	\$36.55
3/8	3/8	1	2-1/2	2	RSB-2-12	91620	\$35.43	99632	\$40.96
1/2	1/2	1	3	2	RSB-2-16	91628	\$61.20	99633	\$67.40

SOLID CARBIDE END MILLS

SPOON CUTTER • C/C, SE, 45° HELIX • 2 FLUTE

FOR ALUMINUM & NON-FERROUS MACHINING

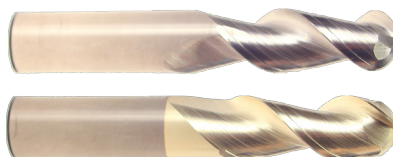


FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	2 FLUTE PART#	UNCOATED LIST PRICE	2 FLUTE PART#	ZrN COATED LIST PRICE
1/8	1/8	1/4	1-1/2	2	AFS-2-4	92504	\$11.28	98184	\$14.21
1/8	1/8	1/2	1-1/2	2	AF-2-4	92404	\$12.42	98185	\$15.35
3/16	3/16	5/16	2	2	AFS-2-6	92508	\$15.54	98186	\$18.46
3/16	3/16	9/16	2	2	AF-2-6	92408	\$17.36	98187	\$20.29
1/4	1/4	3/8	2-1/2	2	AFS-208	92512	\$20.94	98188	\$23.86
1/4	1/4	3/4	2-1/2	2	AF-2-8	92412	\$23.31	98189	\$26.24
1/4	1/4	1-1/8	3	2	AFM-2-8	91312	\$33.21	98640	\$37.00
1/4	1/4	1-1/2	4	2	AFL-2-8	91412	\$36.28	98641	\$42.67
5/16	5/16	7/16	2-1/2	2	AFS-2-10	92516	\$22.68	98190	\$27.43
5/16	5/16	13/16	2-1/2	2	AF-2-10	92416	\$25.19	98191	\$29.94
5/16	5/16	1-1/8	3	2	AFM-2-10	91316	\$38.03	98642	\$42.78
5/16	5/16	1-5/8	4	2	AFL-2-10	91416	\$55.15	98643	\$61.53
3/8	3/8	1/2	2-1/2	2	AFS-2-12	92520	\$26.44	98192	\$31.19
3/8	3/8	1	2-1/2	2	AF-2-12	92420	\$29.20	98193	\$33.94
3/8	3/8	1-1/8	3	2	AFM-2-12	91320	\$41.17	98644	\$45.92
3/8	3/8	1-3/4	4	2	AFL-2-12	91420	\$55.77	98645	\$62.16
7/16	7/16	9/16	2-3/4	2	AFS-2-14	92525	\$37.40	98194	\$42.71
7/16	7/16	1	2-3/4	2	AF-2-14	92425	\$41.86	98195	\$47.17
7/16	7/16	2	4	2	AFM-2-14	91325	\$64.74	98646	\$73.32
7/16	7/16	3	6	2	AFL-2-14	91425	\$89.33	98647	\$101.80
1/2	1/2	5/8	3	2	AFS-2-16	92528	\$42.61	98196	\$48.37
1/2	1/2	1-1/4	3	2	AF-2-16	92428	\$47.31	98197	\$53.07
1/2	1/2	2	4	2	AFM-2-16	91328	\$74.57	98648	\$83.15
1/2	1/2	3	6	2	AFL-2-16	91428	\$124.95	98649	\$134.95
5/8	5/8	3/4	3-1/2	2	AFS-2-20	92530	\$81.46	98198	\$89.98
5/8	5/8	1-5/8	3-1/2	2	AF-2-20	92430	\$90.48	98199	\$99.01
5/8	5/8	2-1/4	5	2	AFM-2-20	91330	\$137.04	98650	\$157.00
5/8	5/8	3	6	2	AFL-2-20	91430	\$198.26	98651	\$212.37
3/4	3/4	1	4	2	AFS-2-24	92532	\$114.29	98200	\$127.01
3/4	3/4	1-5/8	4	2	AF-2-24	92432	\$126.95	98201	\$139.67
3/4	3/4	2-1/4	5	2	AFM-2-24	91332	\$167.37	98652	\$181.65
3/4	3/4	3	6	2	AFL-2-24	91432	\$195.63	98653	\$213.05
1	1	1-1/4	4	2	AFS-2-32	92534	\$207.41	98202	\$225.22
1	1	2	4	2	AF-2-32	92434	\$229.46	98203	\$247.27
1	1	2-1/4	5	2	AFM-2-32	91334	\$261.42	98654	\$280.91
1	1	3	6	2	AFL-2-32	91434	\$275.08	98655	\$297.25

SOLID CARBIDE END MILLS

SPOON CUTTER • BALL END, SE, 45° HELIX • 2 FLUTE

FOR ALUMINUM & NON-FERROUS MACHINING



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	2 FLUTE PART#	UNCOATED LIST PRICE	2 FLUTE PART#	ZrN COATED LIST PRICE
1/4	1/4	3/8	2-1/2	2	ARFS-2-8	85412	\$23.06	99887	\$26.48
1/4	1/4	3/4	2-1/2	2	ARF-2-8	85512	\$25.63	99879	\$29.05
5/16	5/16	7/16	2-1/2	2	ARFS-2-10	85416	\$25.06	99888	\$30.60
5/16	5/16	13/16	2-1/2	2	ARF-2-10	85516	\$27.88	99880	\$33.42
3/8	3/8	1/2	2-1/2	2	ARFS-2-12	85420	\$22.22	99889	\$34.76
3/8	3/8	1	2-1/2	2	ARF2-12	85520	\$32.52	99881	\$38.03
7/16	7/16	9/16	2-3/4	2	ARFS-2-14	85425	\$41.78	99890	\$47.97
7/16	7/16	1	2-3/4	2	ARF-2-14	85525	\$46.42	99882	\$52.61
1/2	1/2	5/8	3	2	ARFS-2-16	85428	\$47.12	99891	\$53.84
1/2	1/2	1-1/4	3	2	ARF-2-16	85528	\$52.37	99883	\$59.09
5/8	5/8	3/4	3-1/2	2	ARFS-2-20	85430	\$90.64	99892	\$100.59
5/8	5/8	1-5/8	3-1/2	2	ARF-2-20	85530	\$100.72	99884	\$110.66
3/4	3/4	1	4	2	ARFS-2-24	85432	\$127.46	99893	\$142.29
3/4	3/4	1-5/8	4	2	ARF-2-24	85532	\$141.62	99885	\$156.45
1	1	1-1/4	4	2	ARFS-2-32	85434	\$228.06	99894	\$248.84
1	1	2	4	2	ARF-2-32	85534	\$251.05	99886	\$271.83

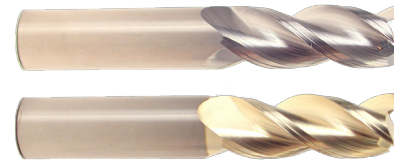
SOLID CARBIDE END MILLS

SPOON CUTTER • C/C, SE, 60° HELIX • 3 & 4 FLUTE

EXCELLENT FOR HIGH SPEED FINISHING



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	4 FLUTE PART#	UNCOATED LIST PRICE	4 FLUTE PART#	ZrN COATED LIST PRICE
1/4	1/4	3/4	2-1/2	3	HH-3-8	93112	\$15.99	99232	\$19.41
5/16	5/16	13/16	2-1/2	3	HH-3-10	93116	\$26.27	99233	\$31.79
3/8	3/8	1	2-1/2	3	HH-3-12	93120	\$29.78	99234	\$35.31
7/16	7/16	1	2-3/4	3	HH-3-14	93125	\$34.44	99235	\$39.62
1/2	1/2	1	3	3	HH-3-16	93128	\$42.87	99236	\$49.59
9/16	9/16	1-1/4	3-1/2	3	HH-3-18	93129	\$74.59	99237	\$84.54
5/8	5/8	1-1/4	3-1/2	3	HH-3-20	93130	\$75.34	99238	\$85.28
3/4	3/4	1-1/2	4	3	HH-3-24	93132	\$106.85	99239	\$121.68
3/4	3/4	1-1/2	4	4	HH-4-24	93632	\$106.85	99240	\$121.68
1	1	1-1/2	4	3	HH-3-32	93134	\$176.75	99241	\$197.52
1	1	1-1/2	4	4	HH-4-32	93634	\$176.75	99242	\$197.52

SOLID CARBIDE END MILLS**SPOON CUTTER • C/C, SE, 38° HELIX • 3 FLUTE**
FOR ALUMINUM & NON-FERROUS MACHINING

FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	3 FLUTE PART#	UNCOATED LIST PRICE	3 FLUTE PART#	ZrN COATED LIST PRICE
1/8	1/8	1/4	1-1/3	3	AFS-3-4	92304	\$11.72	99106	\$15.14
1/8	1/8	1/2	1-1/2	3	AF-3-4	92204	\$12.41	99098	\$15.83
3/16	3/16	5/16	2	3	AFS-3-6	92308	\$16.12	99107	\$19.54
3/16	3/16	9/16	2	3	AF-3-6	92208	\$17.36	99099	\$20.78
1/4	1/4	3/8	2-1/2	3	AFS-3-8	92312	\$21.75	99108	\$25.17
1/4	1/4	3/4	2-1/2	3	AF-3-8	92212	\$23.31	99100	\$26.73
1/4	1/4	1-1/8	3	3	AFM-3-8	91112	\$33.21	99656	\$37.62
1/4	1/4	1-1/2	4	3	AFL-3-8	91212	\$36.28	99657	\$43.75
5/16	5/16	1-1/8	3	3	AFM-3-10	91116	\$34.71	99658	\$40.22
5/16	5/16	1-5/8	4	3	AFL-3-10	91216	\$45.12	99659	\$52.58
3/8	3/8	1/2	2-1/2	3	AFS-3-12	92316	\$32.02	99109	\$37.55
3/8	3/8	1	2-1/2	3	AF-3-12	92216	\$34.27	99101	\$39.80
3/8	3/8	1-1/8	3	3	AFM-3-12	91120	\$43.24	99660	\$48.77
3/8	3/8	1-3/4	4	3	AFL-3-12	91220	\$52.38	99661	\$59.84
7/16	7/16	2	4	3	AFM-3-14	91125	\$64.74	99662	\$74.75
7/16	7/16	3	6	3	AFL-3-14	91225	\$89.33	99663	\$103.88
1/2	1/2	5/8	3	3	AFS-3-16	92320	\$48.96	99110	\$55.68
1/2	1/2	1-1/4	3	3	AF-3-16	92220	\$52.38	99102	\$59.11
1/2	1/2	2	4	3	AFM-3-16	91128	\$74.57	99664	\$84.58
1/2	1/2	3	6	3	AFL-3-16	91228	\$132.97	99665	\$147.53
5/8	5/8	3/4	3-1/2	3	AFS-3-20	92324	\$92.29	99111	\$102.22
5/8	5/8	1-5/8	3-1/2	3	AF-3-20	92224	\$98.76	99103	\$108.69
5/8	5/8	2-1/4	5	3	AFM-3-20	91130	\$137.04	99666	\$151.60
5/8	5/8	3	6	3	AFL-3-20	91230	\$210.92	99667	\$227.38
3/4	3/4	1	4	3	AFS-3-24	92328	\$129.97	99112	\$144.80
3/4	3/4	1-5/8	4	3	AF-3-24	92228	\$139.05	99104	\$153.88
3/4	3/4	2-1/4	5	3	AFM-3-24	91132	\$167.37	99668	\$184.02
3/4	3/4	3	6	3	AFL-3-24	91232	\$179.41	99669	\$199.73
1	1	1-1/4	4	3	AFS-3-32	92332	\$207.21	99113	\$228.00
1	1	2	4	3	AF-3-32	92232	\$229.46	99105	\$250.25
1	1	2-1/4	5	3	AFM-3-32	91134	\$261.42	99670	\$284.15
1	1	3	6	3	AFL-3-32	91234	\$275.08	99671	\$300.95

SOLID CARBIDE END MILLS

SPOON CUTTER • C/C, SE & DE, 35° HELIX • 3 FLUTE

FOR STAINLESS STEEL MACHINING



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	STD RADIUS	NO. OF FLUTES	CATALOG NO.	3 FLUTE PART#	UNCOATED LIST PRICE	3 FLUTE PART#	ALTiN COATED LIST PRICE
1/8	1/8	1/4	1-1/2	.008-.010	3	SS-3-4	94860	\$17.80	99017	\$21.22
1/8	1/8	1/2	1-1/2	.008-.010	3	S-3-4	94644	\$18.88	99025	\$22.31
3/16	3/16	5/16	2	.008-.010	3	SS-3-6	94864	\$21.00	99018	\$24.43
3/16	3/16	9/16	2	.008-.010	3	S-3-6	94648	\$22.24	99026	\$25.66
1/4	1/4	3/8	2-1/2	.015-.020	3	SS-3-8	94868	\$25.24	99019	\$28.65
1/4	1/4	3/4	2-1/2	.015-.020	3	S-3-8	94652	\$26.53	99027	\$29.95
3/8	3/8	1/2	2-1/2	.015-.020	3	SS-3-12	94876	\$38.26	99020	\$43.79
3/8	3/8	1	2-1/2	.015-.020	3	S-3-12	94660	\$40.19	99028	\$45.72
1/2	1/2	5/8	3	.030-.035	3	SS-3-16	94880	\$60.22	99021	\$66.94
1/2	1/2	1-1/4	3	.030-.035	3	S-3-16	94664	\$62.66	99029	\$69.38
5/8	5/8	3/4	3-1/2	.030-.035	3	SS-3-20	94882	\$108.16	99022	\$118.09
5/8	5/8	1-5/8	3-1/2	.030-.035	3	S-3-20	94666	\$115.09	99030	\$125.03
3/4	3/4	1	4	.030-.035	3	SS-3-24	94884	\$153.78	99023	\$168.61
3/4	3/4	1-5/8	4	.030-.035	3	S-3-24	94668	\$163.86	99031	\$178.69
1	1	1-1/4	4	.030-.035	3	SS-3-32	94886	\$258.22	99024	\$278.99
1	1	2	4	.030-.035	3	S-3-32	94670	\$274.78	99032	\$295.55

SOLID CARBIDE END MILLS

SPOON CUTTER • BALL END, SE, 35° HELIX • 3 FLUTE

FOR STAINLESS STEEL MACHINING



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	3 FLUTE PART#	UNCOATED LIST PRICE	3 FLUTE PART#	ALTiN COATED LIST PRICE
1/8	1/8	1/4	1-1/2	3	RSS-3-4	94060	\$26.88	99001	\$39.31
1/8	1/8	1/2	1-1/2	3	RS-3-4	93704	\$28.77	99009	\$32.19
3/16	3/16	5/16	2	3	RSS-3-6	94064	\$34.81	99002	\$38.23
3/16	3/16	9/16	2	3	RS-3-6	93708	\$37.25	99010	\$40.67
1/4	1/4	3/8	2-1/2	3	RSS-3-8	94068	\$41.22	99003	\$44.63
1/4	1/4	3/4	2-1/2	3	RS-3-8	93712	\$44.09	99011	\$47.52
3/8	3/8	1/2	2-1/2	3	RSS-3-12	94076	\$49.44	99004	\$54.96
3/8	3/8	1	2-1/2	3	RS-3-12	93720	\$52.89	99012	\$58.41
1/2	1/2	5/8	3	3	RSS-3-16	94080	\$65.25	99005	\$71.98
1/2	1/2	1-1/4	3	3	RS-3-16	93724	\$69.83	99013	\$76.55
5/8	5/8	3/4	3-1/2	3	RSS-3-20	94082	\$121.48	99006	\$131.41
5/8	5/8	1-5/8	3-1/2	3	RS-3-20	93726	\$129.97	99014	\$139.91
3/4	3/4	1	4	3	RSS-3-24	94084	\$180.65	99007	\$195.48
3/4	3/4	1-5/8	4	3	RS-3-24	93728	\$193.24	99015	\$208.13
1	1	1-1/4	4	3	RSS-3-32	94086	\$296.68	99008	\$317.46
1	1	2	4	3	RS-3-32	93730	\$317.46	99016	\$338.24

SOLID CARBIDE TAPERED END MILLS



3 FLUTE, C/C, SE, TAPERED END MILLS

Taper Per Side	Tip Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Reference No.	Brite		TiN Coated		TiCN Coated		TiAlN Coated	
							EDP No.	Price	EDP No.	Price	EDP No.	Price	EDP No.	Price
1/2	1/16	1/8	1	3	3	TC1/2-AA-4C	96414	42.23	97345	43.79	98345	44.57	99345	44.96
1/2	1/16	1/8	1/2	2-1/2	3	TC1/2-AA-2C	96410	32.81	97343	34.37	98343	35.15	99343	35.54
1/2	1/16	1/8	3/4	2-1/2	3	TC1/2-AA-3C	96412	34.40	97344	35.96	98344	36.74	99344	37.13
1/2	1/32	1/8	1/2	2-1/2	3	TC1/2-AAA-2C	96404	30.44	97340	32.00	98340	32.78	99340	33.17
1/2	1/32	1/8	1/4	2-1/2	3	TC1/2-AAA-1C	96402	28.49	97339	30.05	98339	30.83	99339	31.22
1/2	1/4	3/8	1-1/4	3	3	TC1/2-D-5C	96616	43.01	97258	45.53	98258	46.79	99258	47.42
1/2	1/4	3/8	3/4	2-1/2	3	TC1/2-D-3C	96614	40.82	97257	43.34	98257	44.60	99257	45.23
1/2	1/8	1/4	1	3	3	TC1/2-B-4C	96608	34.99	97254	37.00	98254	38.01	99254	38.51
1/2	1/8	1/4	3/4	2-1/2	3	TC1/2-B-3C	96606	28.86	97253	30.42	98253	31.20	99253	31.59
1/2	3/16	1/4	1-1/4	3	3	TC1/2-C-5C	96612	36.45	97256	38.46	98256	39.47	99256	39.97
1/2	3/16	1/4	3/4	2-1/2	3	TC1/2-C-3C	96610	28.86	97255	30.42	98255	31.20	99255	31.59
1/2	3/32	1/8	3/4	2-1/2	3	TC1/2-A-3C	96604	26.24	97252	27.80	98252	28.58	99252	28.97
1/2	3/64	1/8	1/2	2-1/2	3	TC1/2-AAX-2C	96408	30.85	97342	32.41	98342	33.19	99342	33.58
1/2	3/64	1/8	1/4	2-1/2	3	TC1/2-AAX-1C	96406	28.86	97341	30.42	98341	31.20	99341	31.59
1/2	5/64	1/8	1	3	3	TC1/2-AXA-4C	96420	42.63	97348	44.19	98348	44.97	99348	45.36
1/2	5/64	1/8	1/2	2-1/2	3	TC1/2-AXA-2C	96416	33.62	97346	35.18	98346	35.96	99346	36.35
1/2	5/64	1/8	3/4	2-1/2	3	TC1/2-AXA-3C	96418	32.81	97347	34.37	98347	35.15	99347	35.54
1	1/16	1/8	1	3	3	TC1-AA-4C	96434	42.63	97355	44.19	98355	44.97	99355	45.36
1	1/16	1/8	1/2	2-1/2	3	TC1-AA-2C	96430	33.21	97353	34.77	98353	35.55	99353	35.94
1	1/16	1/8	3/4	2-1/2	3	TC1-AA-3C	96432	34.80	97354	36.36	98354	37.14	99354	37.53
1	1/32	1/8	1/2	2-1/2	3	TC1-AAA-2C	96424	30.85	97350	32.41	98350	33.19	99350	33.58
1	1/32	1/8	1/4	2-1/2	3	TC1-AAA-1C	96422	28.86	97349	30.42	98349	31.20	99349	31.59
1	1/4	3/8	1-1/4	3	3	TC1-D-5C	96636	45.41	97268	47.93	98268	49.19	99268	49.82
1	1/4	3/8	2	4	3	TC1-D-8C	96638	62.55	97269	65.95	98269	67.65	99269	68.50
1	1/4	3/8	3/4	2-1/2	3	TC1-D-3C	96634	40.82	97267	43.34	98267	44.60	99267	45.23
1	1/8	1/4	1	3	3	TC1-B-4C	96624	34.99	97262	37.00	98262	38.01	99262	38.51
1	1/8	1/4	1-1/2	3	3	TC1-B-6C	96626	39.80	97263	41.81	98263	42.82	99263	43.32
1	1/8	1/4	3/4	2-1/2	3	TC1-B-3C	96622	33.17	97261	34.73	98261	35.51	99261	35.90
1	3/16	1/4	1-1/4	3	3	TC1-C-5C	96630	37.91	97265	39.92	98265	40.93	99265	41.43
1	3/16	1/4	1-3/4	3-1/2	3	TC1-C-7C	96632	49.53	97266	51.54	98266	52.55	99266	53.05
1	3/16	1/4	3/4	2-1/2	3	TC1-C-3C	96628	33.17	97264	34.73	98264	35.51	99264	35.90
1	3/32	1/4	1	3	3	TC1-A-4C	96620	29.59	97260	31.60	98260	32.61	99260	33.11
1	3/32	1/8	1/2	2-1/2	3	TC1-A-2C	96618	26.97	97259	28.53	98259	29.31	99259	29.70
1	3/64	1/8	1/2	2-1/2	3	TC1-AAX-2C	96428	31.23	97352	32.79	98352	33.57	99352	33.96
1	3/64	1/8	1/4	2-1/2	3	TC1-AAX-1C	96426	29.27	97351	30.83	98351	31.61	99351	32.00
1	5/64	1/8	1	3	3	TC1-AXA-4C	96440	43.00	97358	44.56	98358	45.34	99358	45.73
1	5/64	1/8	1/2	2-1/2	3	TC1-AXA-2C	96436	33.99	97356	35.55	98356	36.33	99356	36.72
1	5/64	1/8	3/4	2-1/2	3	TC1-AXA-3C	96438	33.21	97357	34.77	98357	35.55	99357	35.94
1-1/2	1/16	3/16	1	3	3	TC12-AA-4C	96454	43.40	97365	44.96	98365	45.74	99365	46.13
1-1/2	1/16	1/8	1/2	2-1/2	3	TC12-AA-2C	96450	33.62	97363	35.18	98363	35.96	99363	36.35
1-1/2	1/16	1/8	3/4	2-1/2	3	TC12-AA-3C	96452	35.17	97364	36.73	98364	37.51	99364	37.90
1-1/2	1/32	1/8	1/2	2-1/2	3	TC12-AAA-2C	96444	31.23	97360	32.79	98360	33.57	99360	33.96
1-1/2	1/32	1/8	1/4	2-1/2	3	TC12-AAA-1C	96442	29.27	97359	30.83	98359	31.61	99359	32.00
1-1/2	1/4	3/8	1-1/4	3	3	TC12-D-5C	96652	45.41	97276	47.93	98276	49.19	99276	49.82
1-1/2	1/4	3/8	3/4	2-1/2	3	TC12-D-3C	96650	40.82	97275	43.34	98275	44.60	99275	45.23
1-1/2	1/8	1/4	1-1/2	3	3	TC12-B-6C	96644	40.10	97272	42.11	98272	43.12	99272	43.62
1-1/2	1/8	1/4	3/4	2-1/2	3	TC12-B-3C	96642	33.17	97271	34.73	98271	35.51	99271	35.90
1-1/2	3/16	3/8	1-1/4	3	3	TC12-C-5C	96646	43.01	97273	45.53	98273	46.79	99273	47.42
1-1/2	3/16	3/8	1-3/4	3-1/2	3	TC12-C-7C	96648	45.41	97274	47.93	98274	49.19	99274	49.82

SOLID CARBIDE TAPERED END MILLS



3 FLUTE, C/C, SE, TAPERED END MILLS

Taper Per Side	Tip Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Reference No.	Brite		TiN Coated		TiCN Coated		TiAlN Coated	
							EDP No.	Price	EDP No.	Price	EDP No.	Price	EDP No.	Price
1-1/2	3/32	1/4	1	3	3	TC12-A-4C	96640	29.59	97270	31.60	98270	32.61	99270	33.11
1-1/2	3/64	1/8	1/2	2-1/2	3	TC12-AAX-2C	96448	31.63	97362	33.19	98362	33.97	99362	34.36
1-1/2	3/64	1/8	1/4	2-1/2	3	TC12-AAX-1C	96446	29.67	97361	31.23	98361	32.01	99361	32.40
1-1/2	5/64	3/16	1	3	3	TC12-AXA-4C	96460	43.40	97368	44.96	98368	45.74	99368	46.13
1-1/2	5/64	1/8	1/2	2-1/2	3	TC12-AXA-2C	96456	34.40	97366	35.96	98366	36.74	99366	37.13
1-1/2	5/64	1/8	3/4	2-1/2	3	TC12-AXA-3C	96458	33.62	97367	35.18	98367	35.96	99367	36.35
2	1/16	3/16	1	3	3	TC2-AA-4C	96520	43.81	97375	45.37	98375	46.15	99375	46.54
2	1/16	1/8	1/2	2-1/2	3	TC2-AA-2C	96516	33.99	97373	35.55	98373	36.33	99373	36.72
2	1/16	1/8	3/4	2-1/2	3	TC2-AA-3C	96518	35.57	97374	37.13	98374	37.91	99374	38.30
2	1/32	1/8	1/2	2-1/2	3	TC2-AAA-2C	96510	31.63	97370	33.19	98370	33.97	99370	34.36
2	1/32	1/8	1/4	2-1/2	3	TC2-AAA-1C	96508	29.67	97369	31.23	98369	32.01	99369	32.40
2	1/4	3/8	1-1/4	3	3	TC2-D-5C	96670	45.41	97285	47.93	98285	49.19	99285	49.82
2	1/4	1/2	2	4	3	TC2-D-8C	96672	62.55	97286	67.12	98286	69.40	99286	70.54
2	1/4	3/8	3/4	2-1/2	3	TC2-D-3C	96668	40.82	97284	43.34	98284	44.60	99284	45.23
2	1/8	1/4	1-1/4	3	3	TC2-B-5C	96660	35.72	97280	37.73	98280	38.74	99280	39.24
2	1/8	1/4	3/4	2-1/2	3	TC2-B-3C	96658	33.17	97279	34.73	98279	35.51	99279	35.90
2	3/16	3/8	1-1/4	3	3	TC2-C-5C	96664	37.91	97282	40.43	98282	41.69	99282	42.32
2	3/16	3/8	1-3/4	3-1/2	3	TC2-C-7C	96666	49.46	97283	51.98	98283	53.24	99283	53.87
2	3/16	1/4	3/4	2-1/2	3	TC2-C-3C	96662	34.26	97281	35.82	98281	36.60	99281	36.99
2	3/32	1/4	1	3	3	TC2-A-4C	96656	34.26	97278	36.27	98278	37.28	99278	37.78
2	3/32	1/4	3/4	2-1/2	3	TC2-A-3C	96654	31.59	97277	33.15	98277	33.93	99277	34.32
2	3/64	1/8	1/2	2-1/2	3	TC2-AAX-2C	96514	28.49	97372	30.05	98372	30.83	99372	31.22
2	3/64	1/8	1/4	2-1/2	3	TC2-AAX-1C	96512	30.04	97371	31.60	98371	32.38	99371	32.77
2	5/64	3/16	1	3	3	TC2-AXA-4C	96526	43.81	97378	45.37	98378	46.15	99378	46.54
2	5/64	1/8	1/2	2-1/2	3	TC2-AXA-2C	96522	34.80	97376	36.36	98376	37.14	99376	37.53
2	5/64	3/16	3/4	2-1/2	3	TC2-AXA-3C	96524	37.57	97377	39.13	98377	39.91	99377	40.30
3	1/16	3/16	1	3	3	TC3-AA-4C	96540	44.21	97385	45.77	98385	46.55	99385	46.94
3	1/16	1/8	1/2	2-1/2	3	TC3-AA-2C	96536	34.40	97383	35.96	98383	36.74	99383	37.13
3	1/16	3/16	3/4	2-1/2	3	TC3-AA-3C	96538	35.98	97384	37.54	98384	38.32	99384	38.71
3	1/32	1/8	1/2	2-1/2	3	TC3-AAA-2C	96530	32.04	97380	33.60	98380	34.38	99380	34.77
3	1/32	1/8	1/4	2-1/2	3	TC3-AAA-1C	96528	30.04	97379	31.60	98379	32.38	99379	32.77
3	1/4	3/8	1-1/4	3	3	TC3-D-5C	96718	45.41	97298	47.93	98298	49.19	99298	49.82
3	1/4	1/2	2	4	3	TC3-D-8C	96720	62.55	97299	67.12	98299	69.40	99299	70.54
3	1/4	3/8	3/4	2-1/2	3	TC3-D-3C	96716	40.82	97297	43.34	98297	44.60	99297	45.23
3	1/8	1/4	1	3	3	TC3-B-4C	96680	34.63	97290	36.64	98290	37.65	99290	38.15
3	1/8	3/8	1-1/2	3-1/2	3	TC3-B-6C	96682	45.41	97291	47.93	98291	49.19	99291	49.82
3	1/8	3/8	2	3-1/2	3	TC3-B-8C	96706	55.40	97292	57.92	98292	59.18	99292	59.81
3	1/8	1/4	3/4	2-1/2	3	TC3-B-3C	96678	32.81	97289	34.37	98289	35.15	99289	35.54
3	3/16	3/8	1-1/4	3	3	TC3-C-5C	96714	45.41	97296	47.93	98296	49.19	99296	49.82
3	3/16	3/8	3/4	2-1/2	3	TC3-C-3C	96712	40.82	97295	43.34	98295	44.60	99295	45.23
3	3/32	1/4	1	3	3	TC3-A-4C	96674	33.90	97287	35.91	98287	36.92	99287	37.42
3	3/32	1/4	1-1/2	3	3	TC3-A-6C	96676	40.10	97288	42.11	98288	43.12	99288	43.62
3	3/64	1/8	1/2	2-1/2	3	TC3-AAX-2C	96534	32.44	97382	34.00	98382	34.78	99382	35.17
3	3/64	1/8	1/4	2-1/2	3	TC3-AAX-1C	96532	30.44	97381	32.00	98381	32.78	99381	33.17
3	5/32	3/8	1-1/4	3	3	TC3-BX-5C	96708	43.01	97293	45.53	98293	46.79	99293	47.42
3	5/32	3/8	1-3/4	3-1/2	3	TC3-BX-7C	96710	54.53	97294	57.05	98294	58.31	99294	58.94
3	5/64	3/16	1	3	3	TC3-AXA-4C	96546	44.21	97388	45.77	98388	46.55	99388	46.94
3	5/64	3/16	1/2	2-1/2	3	TC3-AXA-2C	96542	35.17	97386	36.73	98386	37.51	99386	37.90
3	5/64	3/16	3/4	2-1/2	3	TC3-AXA-3C	96544	37.94	97387	39.50	98387	40.28	99387	40.67

SOLID CARBIDE TAPERED END MILLS



3 FLUTE, C/C, SE, TAPERED END MILLS

Taper Per Side	Tip Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Reference No.	Brite		TiN Coated		TiCN Coated		TiAlN Coated	
							EDP No.	Price	EDP No.	Price	EDP No.	Price	EDP No.	Price
4	1/4	1/2	1-1/4	3-1/2	3	TC4-D-5C	96734	62.55	97306	65.61	98306	67.15	99306	67.91
4	1/4	3/8	3/4	2-1/2	3	TC4-D-3C	96732	40.82	97305	43.34	98305	44.60	99305	45.23
4	1/8	3/8	1	3	3	TC4-B-4C	96726	34.63	97302	37.15	98302	38.41	99302	39.04
4	1/8	1/4	3/4	2-1/2	3	TC4-B-3C	96724	32.81	97301	34.37	98301	35.15	99301	35.54
4	3/16	3/8	1-1/4	3	3	TC4-C-5C	96730	45.41	97304	47.93	98304	49.19	99304	49.82
4	3/16	3/8	3/4	2-1/2	3	TC4-C-3C	96728	40.82	97303	43.34	98303	44.60	99303	45.23
4	3/32	1/4	1	3	3	TC4-A-4C	96722	29.59	97300	31.60	98300	32.61	99300	33.11
5	1/16	1/4	1	3	3	TC5-AA-4C	96560	46.31	97395	48.32	98395	49.33	99395	49.83
5	1/16	1/4	1/2	2-1/2	3	TC5-AA-2C	96556	34.80	97393	36.36	98393	37.14	99393	37.53
5	1/16	1/4	3/4	2-1/2	3	TC5-AA-3C	96558	36.38	97394	37.94	98394	38.72	99394	39.11
5	1/32	3/16	1/2	2-1/2	3	TC5-AAA-2C	96550	32.44	97390	34.00	98390	34.78	99390	35.17
5	1/32	1/8	1/4	2-1/2	3	TC5-AAA-1C	96548	30.44	97389	32.00	98389	32.78	99389	33.17
5	1/4	1/2	1	3	3	TC5-D-4C	96754	52.49	97316	55.55	98316	57.09	99316	57.85
5	1/4	1/2	1-1/4	3-1/2	3	TC5-D-5C	96756	62.55	97317	65.61	98317	67.15	99317	67.91
5	1/4	5/8	2	4	3	TC5-D-8C	96758	74.14	97318	79.86	98318	82.71	99318	84.14
5	1/4	1/2	3/4	2-1/2	3	TC5-D-3C	96752	47.02	97315	49.84	98315	51.25	99315	51.96
5	1/8	3/8	1	3	3	TC5-B-4C	96744	43.01	97311	45.53	98311	46.79	99311	47.42
5	1/8	3/8	1-1/2	3-1/2	3	TC5-B-6C	96746	45.41	97312	47.93	98312	49.19	99312	49.82
5	1/8	1/4	3/4	2-1/2	3	TC5-B-3C	96742	30.25	97310	31.81	98310	32.59	99310	32.98
5	3/16	1/2	1-1/4	3	3	TC5-C-5C	96750	62.55	97314	65.61	98314	67.15	99314	67.91
5	3/16	3/8	3/4	2-1/2	3	TC5-C-3C	96748	40.82	97313	43.34	98313	44.60	99313	45.23
5	3/32	3/8	1	3	3	TC5-A-4C	96738	41.55	97308	44.07	98308	45.33	99308	45.96
5	3/32	3/8	1-1/2	3-1/2	3	TC5-A-6C	96740	45.41	97309	47.93	98309	49.19	99309	49.82
5	3/32	1/4	3/4	2-1/2	3	TC5-A-3C	96736	34.63	97307	36.19	98307	36.97	99307	37.36
5	3/64	3/16	1/2	2-1/2	3	TC5-AAX-2C	96554	32.81	97392	34.37	98392	35.15	99392	35.54
5	3/64	1/8	1/4	2-1/2	3	TC5-AAX-1C	96552	30.85	97391	32.41	98391	33.19	99391	33.58
5	5/64	3/8	1	3	3	TC5-AXA-4C	96566	51.57	97398	54.09	98398	55.35	99398	55.98
5	5/64	3/16	1/2	2-1/2	3	TC5-AXA-2C	96562	35.57	97396	37.13	98396	37.91	99396	38.30
5	5/64	1/4	3/4	2-1/2	3	TC5-AXA-3C	96564	38.34	97397	39.90	98397	40.68	99397	41.07
7	1/4	5/8	1-1/4	3-1/2	3	TC7-D-5C	96776	68.82	97327	73.35	98327	75.62	99327	76.75
7	1/4	1/2	3/4	2-1/2	3	TC7-D-3C	96774	55.40	97326	58.22	98326	59.63	99326	60.34
7	1/8	3/8	1	3	3	TC7-B-4C	96766	45.41	97322	47.93	98322	49.19	99322	49.82
7	1/8	3/8	1/2	2-1/2	3	TC7-B-2C	96762	39.37	97320	41.89	98320	43.15	99320	43.78
7	1/8	1/2	1-1/2	3-1/2	3	TC7-B-6C	96768	55.40	97323	58.46	98323	60.00	99323	60.76
7	1/8	3/8	3/4	2-1/2	3	TC7-B-3C	96764	42.28	97321	44.80	98321	46.06	99321	46.69
7	3/16	1/2	1-1/4	3-1/2	3	TC7-C-5C	96772	62.55	97325	65.61	98325	67.15	99325	67.91
7	3/32	3/8	1	3	3	TC7-A-4C	96760	42.65	97319	45.17	98319	46.43	99319	47.06
7	5/32	3/8	3/4	2-1/2	3	TC7-BX-3C	96770	42.28	97324	44.80	98324	46.06	99324	46.69
10	1/4	5/8	1	3	3	TC10-D-4C	96792	68.82	97335	73.35	98335	75.62	99335	76.75
10	1/4	5/8	3/4	3	3	TC10-D-3C	96790	67.07	97334	71.60	98334	73.87	99334	75.00
10	1/8	5/8	1	3	3	TC10-B-5C	96784	68.82	97331	73.35	98331	75.62	99331	76.75
10	1/8	5/8	1-1/4	3-1/2	3	TC10-B-4C	96786	62.55	97332	67.08	98332	69.35	99332	70.48
10	1/8	3/8	3/4	2-1/2	3	TC10-B-3C	96782	42.28	97330	44.80	98330	46.06	99330	46.69
10	3/16	5/8	1-1/4	3-1/2	3	TC10-C-5C	96788	68.82	97333	73.35	98333	75.62	99333	76.75
10	3/32	1/4	1/2	2-1/2	3	TC10-A-2C	96778	28.86	97328	30.42	98328	31.20	99328	31.59
10	3/32	5/8	1-1/2	3-1/2	3	TC10-A-6C	96780	68.82	97329	73.35	98329	75.62	99329	76.75
15	1/4	3/4	1	3	3	TC15-D-4C	96798	166.64	97338	172.02	98338	174.71	99338	176.05
15	1/8	3/4	1	3	3	TC15-B-4C	96794	152.02	97336	157.40	98336	160.09	99336	161.43
15	3/16	3/4	1	3	3	TC15-C-4C	96796	160.80	97337	166.18	98337	168.87	99337	170.21

SOLID CARBIDE END MILLS

TOUGH MILL • 5, 8 & 12-FLUTE, C/C, SE & DE, 45° HELIX
IDEAL FOR PERIPHERAL FINISH MILLING



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	3 FLUTE BALL PART#	UNCOATED LIST PRICE	3 FLUTE BALL PART#	ALTiN COATED LIST PRICE
1/8	1/8	1/4	1-1/2	5	MHS-5-4	93004	\$15.39	99033	\$18.81
1/8	1/8	1/2	1-1/2	5	MH-5-4	92604	\$16.51	99041	\$19.93
3/16	3/16	5/16	2	5	MHS-5-6	93008	\$16.57	99034	\$19.99
3/16	3/16	9/16	2	5	MH-5-6	92608	\$17.73	99042	\$21.14
1/4	1/4	3/8	2-1/2	5	MHS-5-8	93012	\$17.86	99035	\$21.28
1/4	1/4	3/4	2-1/2	5	MH-5-8	92612	\$19.11	99043	\$22.53
1/4	1/4	1-1/8	3	5	MHM-5-8	90912	\$27.13	99715	\$31.54
1/4	1/4	1-1/2	4	5	MHL-5-8	91012	\$33.07	99723	\$40.53
5/16	5/16	7/16	2-1/2	5	MHS-5-10	93016	\$22.51	99711	\$28.03
5/16	5/16	13/16	2-1/2	5	MH-5-10	92616	\$24.07	99712	\$29.60
5/16	5/16	1-1/8	3	5	MHM-5-10	90916	\$33.12	99716	\$38.63
5/16	5/16	1-5/8	4	5	MHL-5-10	91016	\$40.41	99724	\$47.86
3/8	3/8	1/2	2-1/2	5	MHS-5-12	93020	\$27.78	99036	\$33.24
3/8	3/8	1	2-1/2	5	MH-5-12	92620	\$29.73	99044	\$35.26
3/8	3/8	1-1/8	3	5	MHM-5-12	90920	\$41.33	99717	\$46.85
3/8	3/8	1-3/4	4	5	MHL-5-12	91020	\$45.78	99725	\$53.24
7/16	7/16	9/16	2-3/4	5	MHS-5-14	93025	\$34.87	99713	\$41.06
7/16	7/16	1	2-3/4	5	MH-5-14	92625	\$37.29	99714	\$43.49
7/16	7/16	2	4	5	MHM-5-14	90925	\$61.94	99718	\$71.96
7/16	7/16	3	6	5	MHL-5-14	91025	\$91.05	99726	\$105.50
1/2	1/2	5/8	3	5	MHS-5-16	93028	\$42.81	99037	\$49.53
1/2	1/2	5/8	3	8 *	MHS-8-16	93029	\$49.23	99912	\$55.95
1/2	1/2	1-1/4	3	5	MH-5-16	92628	\$45.80	99045	\$52.53
1/2	1/2	1-1/4	3	8 *	MH-8-16	92629	\$52.67	99456	\$59.40
1/2	1/2	2	4	5	MHM-5-16	90928	\$66.29	99719	\$76.31
1/2	1/2	3	6	5	MHL-5-16	91028	\$132.97	99727	\$147.53
5/8	5/8	3/4	3-1/2	5	MHS-5-20	93030	\$89.91	99038	\$99.85
5/8	5/8	3/4	3-1/2	8 *	MHS-8-20	93031	\$103.68	99913	\$113.62
5/8	5/8	1-5/8	3-1/2	5	MH-5-20	92632	\$96.53	99046	\$106.46
5/8	5/8	1-5/8	3-1/2	8 *	MH-8-20	92631	\$111.00	99457	\$120.94
5/8	5/8	2-1/4	5	5	MHM-5-20	90930	\$128.32	99720	\$142.86
5/8	5/8	3	6	5	MHL-5-20	91030	\$138.57	99728	\$155.03
3/4	3/4	1	4	5	MHS-5-24	93032	\$116.89	99039	\$131.73
3/4	3/4	1	4	8 *	MHS-8-24	93033	\$134.42	99914	\$149.25
3/4	3/4	1-5/8	4	5	MH-5-24	92634	\$125.05	99047	\$158.64
3/4	3/4	1-5/8	4	8 *	MH-8-24	92633	\$143.81	99458	\$166.48
3/4	3/4	2-1/4	5	5	MHM-5-24	90932	\$167.37	99721	\$198.40
3/4	3/4	3	6	5	MHL-5024	91032	\$189.05	99729	\$209.38
1	1	1-1/4	4	5	MHS-5-32	93034	\$185.93	99040	\$206.72
1	1	1-1/4	4	12 *	MHS-12-32	93035	\$260.31	99915	\$281.07
1	1	2	4	5	MH-5-32	92638	\$198.93	99048	\$219.71
1	1	2	4	12 *	MH-12-32	92635	\$278.49	99911	\$299.27
1	1	2-1/4	5	5	MHM-5-32	90934	\$248.82	99722	\$271.55
1	1	3	6	5	MHL-5-32	91034	\$273.71	99730	\$299.55
3/16	3/16	5/16	2	5	DMHS-5-6	85008	\$25.76	99916	\$28.60
1/4	1/4	3/8	2-1/2	5	DMHS-5-8	85012	\$26.99	99917	\$29.83
5/16	5/16	7/16	2-1/2	5	DMHS-5-10	85016	\$31.71	99918	\$36.30
3/8	3/8	1/2	2-1/2	5	DMHS-5-12	85020	\$39.07	99919	\$43.65
7/16	7/16	9/16	2-3/4	5	DMHS-5-14	85025	\$47.97	99920	\$53.10
1/2	1/2	5/8	3	5	DMHS-5-16	85028	\$58.34	99921	\$63.92

SOLID CARBIDE END MILLS

CORNER RADIUS - .015, .032, .062, .093, .125

SINGLE END SQUARE • 2-4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1/2"	1-1/2"	350-2125	350-4125	\$7.04
1/8"	1"	3"	350-2123	350-4123	\$16.50
3/16"	5/8"	2"	350-2187	350-4187	\$11.70
3/16"	1-1/8"	3"	350-2183	350-4183	\$18.34
1/4"	3/4"	2-1/2"	350-2250	350-4250	\$13.42
1/4"	1-1/2"	4"	350-2254	350-4254	\$24.10
5/16"	7/8"	2-1/2"	350-2312	350-4312	\$17.16
5/16"	1-5/8"	4"	350-2314	350-4314	\$30.14
3/8"	1"	2-1/2"	350-2375	350-4375	\$20.90
3/8"	1-1/8"	4"	350-2374	350-4374	\$39.00
3/8"	1-1/2"	6"	350-2376	350-4376	\$49.50
1/2"	1"	3"	350-2500	350-4500	\$35.20
1/2"	1-1/4"	4"	350-2504	350-4504	\$52.74
1/2"	1-1/2"	6"	350-2506	350-4506	\$76.00
5/8"	1-1/4"	3-1/2"	350-2625	350-4625	\$67.10
5/8"	1-1/2"	6"	350-2626	350-4626	\$116.00
3/4"	1-1/2"	4"	350-2750	350-4750	\$92.40
3/4"	2"	6"	350-2756	350-4756	\$156.00
1"	1-1/2"	4"	350-2100	350-4100	\$166.00
1"	2-1/4"	6"	350-2106	350-4106	\$270.00

OTHER SIZES AVAILABLE

SOLID CARBIDE END MILLS

CORNER RADIUS - .015, .032, .062, .093, .125

SINGLE END SQUARE • 2-4 FLUTE

ALTIN COATED - **HTC HARD COAT**



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1/2"	1-1/2"	360-2125	360-4125	\$8.82
1/8"	1"	3"	360-2123	360-4123	\$18.74
3/16"	5/8"	2"	360-2187	360-4187	\$14.26
3/16"	1-1/8"	3"	360-2183	360-4183	\$21.30
1/4"	3/4"	2-1/2"	360-2250	360-4250	\$18.08
1/4"	1-1/2"	4"	360-2254	360-4254	\$29.50
5/16"	7/8"	2-1/2"	360-2312	360-4312	\$23.72
5/16"	1-5/8"	4"	360-2314	360-4314	\$36.50
3/8"	1"	2-1/2"	360-2375	360-4375	\$27.46
3/8"	1-1/8"	4"	360-2374	360-4374	\$45.30
3/8"	1-1/2"	6"	360-2376	360-4376	\$58.74
1/2"	1"	3"	360-2500	360-4500	\$44.58
1/2"	1-1/4"	4"	360-2504	360-4504	\$64.46
1/2"	1-1/2"	6"	360-2506	360-4506	\$92.36
5/8"	1-1/4"	3-1/2"	360-2625	360-4625	\$81.74
5/8"	1-1/2"	6"	360-2626	360-4626	\$136.50
3/4"	1-1/2"	4"	360-2750	360-4750	\$109.12
3/4"	2"	6"	360-2756	360-4756	\$179.42
1"	1-1/2"	4"	360-2100	360-4100	\$191.86
1"	2-1/4"	6"	360-2106	360-4106	\$310.94

OTHER SIZES AVAILABLE

SOLID CARBIDE END MILLS

ROUGHING "HOG" - HTC TURBO MILL

SINGLE END SQUARE • 4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	4 FLUTE PART#	LIST PRICE
1/8"	3/8"	1-1/2"	300-4125	\$11.60
3/16"	5/8"	2"	300-4187	\$15.80
1/4"	3/4"	2-1/2"	300-4250	\$18.00
1/4"	1-1/8"	3"	300-4253	\$36.00
1/4"	1-1/2"	4"	300-4254	\$39.40
5/16"	3/4"	2-1/2"	300-4312	\$24.00
5/16"	1-1/4"	3"	300-4313	\$34.20
5/16"	1-5/8"	4"	300-4314	\$50.00
3/8"	1"	2-1/2"	300-4375	\$32.00
3/8"	1-1/4"	3"	300-4373	\$49.60
3/8"	1-3/4"	4"	300-4374	\$64.00
7/16"	1"	3"	300-4437	\$34.00
7/16"	2"	4"	300-4434	\$70.00
1/2"	1-1/4"	3"	300-4500	\$38.00
1/2"	2"	4"	300-4504	\$74.20
1/2"	3"	6"	300-4506	\$96.00
5/8"	1-1/4"	3-1/2"	300-4625	\$84.00
5/8"	2-1/4"	5"	300-4655	\$146.00
5/8"	3"	6"	300-4626	\$218.00
3/4"	1-1/2"	4"	300-4750	\$110.00
3/4"	2-1/4"	5"	300-4755	\$208.00
3/4"	3"	6"	300-4756	\$258.00
1"	1-1/2"	4"	300-4100	\$150.00
1"	2-1/4"	5"	300-4105	\$276.00
1"	3"	6"	300-4106	\$374.00

SOLID CARBIDE END MILLS

ROUGHING "HOG" - HTC TURBO MILL

SINGLE END SQUARE • 4 FLUTE

TICN COAT- HTC PROGRESSIVE COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	4 FLUTE PART#	LIST PRICE
1/8"	3/8"	1-1/2"	307-4125	\$13.74
3/16"	5/8"	2"	307-4187	\$16.08
1/4"	3/4"	2-1/2"	307-4250	\$25.22
1/4"	1-1/8"	3"	307-4253	\$40.53
1/4"	1-1/2"	4"	307-4254	\$44.62
5/16"	3/4"	2-1/2"	307-4312	\$29.10
5/16"	1-1/4"	3"	307-4313	\$38.64
5/16"	1-5/8"	4"	307-4314	\$58.20
3/8"	1"	2-1/2"	307-4375	\$38.80
3/8"	1-1/4"	3"	307-4373	\$61.11
3/8"	1-3/4"	4"	307-4374	\$75.04
7/16"	1"	3"	307-4437	\$42.68
7/16"	2"	4"	307-4434	\$89.24
1/2"	1-1/4"	3"	307-4500	\$50.44
1/2"	2"	4"	307-4504	\$91.18
1/2"	3"	6"	307-4506	\$120.28
5/8"	1-1/4"	3-1/2"	307-4625	\$99.91
5/8"	2-1/4"	5"	307-4655	\$182.36
5/8"	3"	6"	307-4626	\$244.44
3/4"	1-1/2"	4"	307-4750	\$127.65
3/4"	2-1/4"	5"	307-4755	\$240.56
3/4"	3"	6"	307-4756	\$302.64
1"	1-1/2"	4"	307-4100	\$165.39
1"	2-1/4"	5"	307-4105	\$317.19
1"	3"	6"	307-4106	\$415.16

SOLID CARBIDE END MILLS

ROUGHING "HOG" - HTC TURBO MILL

SINGLE END SQUARE • 4 FLUTE

ALTIN COATED **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	4 FLUTE PART#	LIST PRICE
1/8"	3/8"	1-1/2"	310-4125	\$14.16
3/16"	5/8"	2"	310-4187	\$16.58
1/4"	3/4"	2-1/2"	310-4250	\$26.00
1/4"	1-1/8"	3"	310-4253	\$41.78
1/4"	1-1/2"	4"	310-4254	\$46.00
5/16"	3/4"	2-1/2"	310-4312	\$30.00
5/16"	1-1/4"	3"	310-4313	\$39.84
5/16"	1-5/8"	4"	310-4314	\$60.00
3/8"	1"	2-1/2"	310-4375	\$40.00
3/8"	1-1/4"	3"	310-4373	\$63.00
3/8"	1-3/4"	4"	310-4374	\$77.36
7/16"	1"	3"	310-4437	\$44.00
7/16"	2"	4"	310-4434	\$92.00
1/2"	1-1/4"	3"	310-4500	\$52.00
1/2"	2"	4"	310-4504	\$94.00
1/2"	3"	6"	310-4506	\$124.00
5/8"	1-1/4"	3-1/2"	310-4625	\$103.00
5/8"	2-1/4"	5"	310-4655	\$188.00
5/8"	3"	6"	310-4626	\$252.00
3/4"	1-1/2"	4"	310-4750	\$131.60
3/4"	2-1/4"	5"	310-4755	\$248.00
3/4"	3"	6"	310-4756	\$312.00
1"	1-1/2"	4"	310-4100	\$170.50
1"	2-1/4"	5"	310-4105	\$327.00
1"	3"	6"	310-4106	\$428.00

SOLID CARBIDE END MILLS

ROUGHING 45° HIGH HELIX • SINGLE END SQUARE / 3 FLUTE
UNCOATED

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	4 FLUTE PART#	LIST PRICE
3/16"	3/16"	5/8"	2"	830-3187	\$16.00
1/4"	1/4"	3/4"	2-1/2"	830-3250	\$21.60
5/16"	5/16"	3/4"	2-1/2"	830-3312	\$28.80
3/8"	3/8"	7/8"	2-1/2"	830-3375	\$38.40
7/16"	7/16"	1"	3"	830-3437	\$40.80
1/2"	1/2"	1"	3"	830-3500	\$45.60
5/8"	5/8"	1-1/4"	3-1/2"	890-3625	\$100.80
3/4"	3/4"	1-1/2"	4"	830-3750	\$132.00
1"	1"	1-1/2"	4"	830-3100	\$180.00



SOLID CARBIDE END MILLS

PROFILING • SINGLE END BALL / 2 FLUTE
ALTiN COATED HTC HARD COAT

CUTTER DIA	SHANK DIAMETER	O.A. LENGTH	PART #	LIST PRICE
1/8"	1/4"	4"	850-2125	\$21.00
3/16"	1/4"	4"	850-2187	\$39.00
1/4"	3/8"	4"	850-2250	\$47.00
3/8"	1/2"	4"	850-2375	\$64.00
1/2"	3/4"	6"	850-2500	\$143.00
5/8"	3/4"	6"	850-2625	\$164.00
3/4"	1"	6"	850-2750	\$211.00



MORE SIZES AVAILABLE IN BALL END OR SQUARE END

Series 833



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE END MILLS
HOG MILL



C/C, SE MEDIUM PITCH KNUCKLE ROUGHER 25° HELIX • 3,4,6 FLUTE

FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	CHAM. WIDTH	NO. OF FLUTES	CATALOG NO.	3-4-6 FLUTE PART#	UNCOATED LIST PRICE	3-4-6 FLUTE PART#	ALTN COATED LIST PRICE
1/4	1/4	3/8	2-1/2	.020	3	KQSHS-3-8	90512	\$47.48	99605	\$50.88
1/4	1/4	3/4	2-1/2	.020	3	KQSH-3-8	90612	\$50.78	99606	\$54.20
5/16	5/16	7/16	2-1/2	.020	3	KQSHS-3-10	90516	\$50.67	99607	\$54.09
5/16	5/16	13/16	2-1/2	.020	3	KQSH-3-10	90616	\$56.94	99608	\$60.36
3/8	3/8	1/2	2-1/2	.020	4	KQSHA-4-12	90520	\$65.92	99609	\$69.34
3/8	3/8	1	2-1/2	.020	4	KQSH-4-12	90620	\$70.55	99610	\$73.97
7/16	7/16	9/16	2-3/4	.020	4	KQSHS-4-14	90525	\$76.71	99611	\$80.13
7/16	7/16	1	2-3/4	.020	4	KQSH-4-14	90625	\$84.37	99612	\$87.79
1/2	1/2	5/8	3	.025	4	KQSHS-4-16	90528	\$83.06	99613	\$86.48
1/2	1/2	1-1/4	3	.025	4	KQSH-4-16	90628	\$88.88	99614	\$92.31
9/16	9/16	1-1/4	3-1/2	.025	4	KQSH-4-18	90629	\$136.52	99615	\$139.95
5/8	5/8	3/4	3-1/2	.025	4	KQSHS-4-20	90530	\$143.72	99616	\$147.14
5/8	5/8	1-5/8	3-1/2	.025	4	KQSH-4-20	90630	\$153.79	99617	\$157.21
3/4	3/4	1	4	.025	4	KQSHS-4-24	90532	\$163.49	99618	\$170.95
3/4	3/4	1-5/8	4	.025	4	KQSH-4-24	90632	\$174.94	99619	\$182.40
1	1	1-1/4	4	.025	6	KQSH-6-32	90534	\$262.39	99620	\$269.85
1	1	2	4	.025	6	KQSH-6-32	90634	\$280.76	99621	\$288.21

Series 835

SOLID CARBIDE END MILLS
HOG MILL • C/C, SE, 35° HELIX • 3 FLUTE
FINE KNUCKLE ROUGHERS FOR ALUMINUM



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	3 FLUTE PART#	UNCOATED LIST PRICE	3 FLUTE PART#	ALTN COATED LIST PRICE
1/4	1/4	3/8	2-1/2	3	AFQS-3-8	85212	\$47.48	99895	\$50.88
1/4	1/4	3/4	2-1/2	3	AFQ-3-8	85312	\$50.78	99896	\$54.20
5/16	5/16	7/16	2-1/2	3	AFQS-3-10	85216	\$50.67	99897	\$54.09
5/16	5/16	13/16	2-1/2	3	AFQ-3-10	85316	\$56.94	99898	\$60.36
3/8	3/8	1/2	2-1/2	3	AFQS-3-12	85220	\$65.92	99899	\$69.34
3/8	3/8	1	2-1/2	3	AFQ-3-12	85320	\$70.55	99900	\$73.97
7/16	7/16	9/16	2-3/4	3	AFQS-3-14	85225	\$76.71	99901	\$80.13
7/16	7/16	1	2-3/4	3	AFQ-3-14	85325	\$84.37	99902	\$87.79
1/2	1/2	5/8	3	3	AFQS-3-16	85228	\$83.06	99903	\$86.48
1/2	1/2	1-1/4	3	3	AFQ-3-16	85328	\$88.88	99904	\$92.31
5/8	5/8	3/4	3-1/2	3	AFQS-3-20	85230	\$143.72	99905	\$147.14
5/8	5/8	1-5/8	3-1/2	3	AFQ-3-20	85330	\$153.79	99906	\$157.21
3/4	3/4	1	4	3	AFQS-3-24	85232	\$163.49	99907	\$170.95
3/4	3/4	1-5/8	4	3	AFQ-3-24	85332	\$174.94	99908	\$182.40
1	1	1-1/4	4	3	AFQS-3-32	85234	\$262.39	99909	\$269.85
1	1	2	4	3	AFQ-3-32	85334	\$280.76	99910	\$288.21

SOLID CARBIDE END MILLS

HOG MILL

3,4,6 FLUTE, C/C/ SE. 45° HELIX - TRUNCATED ROUGHER FOR TITANIUM



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	CATALOG NO.	3-4-6 FLUTE PART#	UNCOATED LIST PRICE	3-4-6 FLUTE PART#	ALTIM COATED LIST PRICE
1/4	1/4	3/8	2-1/2	3	TQSHS-3-8	90712	\$47.48	99676	\$50.88
1/4	1/4	3/4	2-1/2	3	TQSH-3-8	90812	\$50.78	99677	\$54.20
3/8	3/8	1/2	2-1/2	4	TQSHS-4-12	90720	\$65.92	99678	\$69.34
3/8	3/8	1	2-1/2	4	TQSH-4-12	90820	\$70.55	99679	\$73.97
1/2	1/2	5/8	3	4	TQSHS-4-16	90728	\$83.06	99680	\$86.48
1/2	1/2	1-1/4	3	4	TQSH-4-16	90828	\$88.88	99681	\$92.31
5/8	5/8	3/4	3-1/2	4	TQSHS-4-20	90730	\$143.72	99682	\$147.14
5/8	5/8	1-5/8	3-1/2	4	TQSH-4-20	90830	\$153.79	99683	\$157.21
3/4	3/4	1	4	4	TQSHS-4-24	90732	\$163.49	99684	\$170.95
3/4	3/4	1-5/8	4	4	TQSH-4-24	90832	\$174.94	99685	\$182.40
1	1	1-1/4	4	6	TQSHS-6-32	90734	\$262.39	99686	\$269.85

Series 837

SOLID CARBIDE END MILLS

HOG MILL

5 FLUTE, C/C, SE FINE KNUCKLE ROUGHER FOR TITANIUM, 45° HELIX

HIGH SPEED MACHINING SELECT SERIES



FLUTE DIA.	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	CHAM. WIDTH	NO. OF FLUTES	CATALOG NO.	5 FLUTE PART#	UNCOATED LIST PRICE	5 FLUTE PART#	ALTIM COATED LIST PRICE
3/8	3/8	1/2	2-1/2	.020	5	FQMHS-5-12	90320	\$62.64	99779	\$68.17
3/8	3/8	1	2-1/2	.020	5	FQMH-5-12	90420	\$79.39	99780	\$84.92
7/16	7/16	9/16	2-3/4	.020	5	FQMHS-5-14	90325	\$70.88	99781	\$77.07
7/16	7/16	1	2-3/4	.020	5	FQMH-5-14	90425	\$87.85	99782	\$94.04
1/2	1/2	5/8	3	.025	5	FQMHS-5-16	90328	\$85.71	99783	\$92.41
1/2	1/2	1-1/4	3	.025	5	FQMH-5-16	90428	\$99.88	99784	\$106.60
5/8	5/8	3/4	3-1/2	.025	5	FQMHS-5-20	90330	\$136.81	99785	\$146.74
5/8	5/8	1-5/8	3-1/2	.025	5	FQMH-5-20	90432	\$173.01	99786	\$182.95
3/4	3/4	1	4	.025	5	FQMHS-5-24	90332	\$173.08	99787	\$187.93
3/4	3/4	1-5/8	4	.025	5	FQMH-5-24	90434	\$196.82	99788	\$216.66
1	1	1-1/4	4	.025	5	FQMHS-5-32	90334	\$283.48	99789	\$304.26
1	1	2	4	.025	5	FQMH-5-32	90438	\$315.88	99790	\$336.66

SOLID CARBIDE END MILLS**HIGH PERFORMANCE - 45° HELIX**

SINGLE END • 5-6 FLUTE

ALTIN COATED - HTC HARD COAT

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	5 FLUTE PART#	6 FLUTE PART#	LIST PRICE
1/4"	3/4"	2-1/2"	380-5250	380-6250	\$17.50
1/4"	1-1/8"	3"	380-5253	380-6253	\$26.84
1/4"	1-1/2"	4"	380-5254	380-6254	\$31.98
5/16"	3/4"	2-1/2"	380-5312	380-6312	\$25.30
5/16"	1-1/8"	3"	380-5323	380-6323	\$34.26
5/16"	1-5/8"	4"	380-5324	380-6324	\$39.62
3/8"	1"	2-1/2"	380-5375	380-6375	\$28.14
3/8"	1-1/8"	3"	380-5373	380-6373	\$44.20
3/8"	1-3/4"	4"	380-5374	380-6374	\$48.72
7/16"	1-3/16"	2-3/4"	380-5437	380-6437	\$37.00
1/2"	1-1/4"	3"	380-5500	380-6500	\$45.72
1/2"	2"	4"	380-5504	380-6504	\$76.40
1/2"	3"	6"	380-5506	380-6506	\$116.72
5/8"	1-5/8"	3-1/2"	380-5625	380-6625	\$87.30
5/8"	2-1/4"	5"	380-5655	380-6655	\$133.84
5/8"	3"	6"	380-5626	380-6626	\$151.90
3/4"	1-5/8"	4"	380-5750	380-6750	\$116.66
3/4"	2-1/4"	5"	380-5755	380-6755	\$182.06
3/4"	3"	6"	380-5756	380-6756	\$205.00
1"	2"	4"	380-5100	380-6100	\$209.16
1"	2-1/2"	5"	380-5105	380-6105	\$307.00
1"	3-1/4"	6"	380-5106	380-6106	\$379.32
1"	4"	7"	380-5107	380-6107	\$471.50

CORNER RADIUS AVAILABLE

SOLID CARBIDE END MILLS

HIGH PERFORMANCE
UNCOATED

60° 3 FLUTE				
CUT. DIA.	L.O.C.	O.A.L.	PART #	LIST PRICE
1/4"	3/4"	2-1/2"	390-6014	\$11.06
5/16"	7/8"	2-1/2"	390-6016	\$14.96
3/8"	1"	2-1/2"	390-6038	\$18.98
1/2"	1-1/4"	3"	390-6012	\$32.50
9/16"	1-3/8"	3"	390-6096	\$63.70
5/8"	1-1/2"	3-1/2"	390-6058	\$66.30
3/4"	1-5/8"	4"	390-6034	\$92.30
1"	1-3/4"	4"	390-6010	\$166.40



45° 3 FLUTE				
CUT. DIA.	L.O.C.	O.A.L.	PART #	LIST PRICE
1/4"	3/4"	2-1/2"	390-4514	\$10.62
5/16"	7/8"	2-1/2"	390-4516	\$14.38
3/8"	1"	2-1/2"	390-4538	\$18.26
1/2"	1-1/4"	3"	390-4512	\$31.26
9/16"	1-3/8"	3"	390-4596	\$61.26
5/8"	1-1/2"	3-1/2"	390-4558	\$63.76
3/4"	1-5/8"	4"	390-4534	\$88.76
1"	1-3/4"	4"	390-4510	\$160.00



45° 2 FLUTE				
CUT. DIA.	L.O.C.	O.A.L.	PART #	LIST PRICE
1/4"	3/4"	2-1/2"	390-4521	\$10.20
5/16"	7/8"	3"	390-4525	\$13.80
3/8"	1"	2-1/2"	390-4523	\$17.52
1/2"	1-1/4"	3"	390-4522	\$30.00
9/16"	1-3/8"	3"	390-4529	\$58.80
5/8"	1-1/2"	3-1/2"	390-4528	\$61.20
3/4"	1-5/8"	4"	390-4527	\$85.20
1"	1-3/4"	4"	390-4520	\$153.60



Other sizes available

MINI MILL - SOLID CARBIDE END MILLS

2-FLUTE, C/C, SE, 30° Helix Micro-Miniature 1/8" Shank End Mills

•Eccentric O.D. Primary Relief •Flute Diam. Tel. +.0000-.0015 •30° Helix / RHC-RHS •Shank Diam. Tel. -.0001-.0004



Fractional Flute Diam.	Metric Flute Diam.	Decimal Flute Diam.	Shank Diam.	Length of Cut	Overall Length	No. of Flutes	Reference No.	Brite	
								EDP No.	Price
-	-	.0040	1/8	.0060	1-1/2	2	TS-2-0040-S	95702	28.20
-	-	.0040	1/8	.0120	1-1/2	2	TR-2-0040-S	95802	29.60
-	-	.0050	1/8	.0080	1-1/2	2	TS-2-0050-S	95703	28.20
-	-	.0050	1/8	.0150	1-1/2	2	TR-2-0050-S	95803	29.60
-	-	.0060	1/8	.0090	1-1/2	2	TS-2-0060-S	95704	28.20
-	-	.0060	1/8	.0180	1-1/2	2	TR-2-0060-S	95804	29.60
-	-	.0070	1/8	.0110	1-1/2	2	TS-2-0070-S	95705	25.40
-	-	.0070	1/8	.0210	1-1/2	2	TR-2-0070-S	95805	26.70
-	-	.0080	1/8	.0120	1-1/2	2	TS-2-0080-S	95706	25.40
-	-	.0080	1/8	.0240	1-1/2	2	TR-2-0080-S	95806	26.70
-	-	.0090	1/8	.0140	1-1/2	2	TS-2-0090-S	95707	23.40
-	-	.0090	1/8	.0270	1-1/2	2	TR-2-0090-S	95807	24.60
-	-	.0100	1/8	.0150	1-1/2	2	TS-2-0100-S	95708	21.50
-	-	.0100	1/8	.0300	1-1/2	2	TR-2-0100-S	95808	22.60
-	-	.0110	1/8	.0170	1-1/2	2	TS-2-0110-S	95709	20.90
-	-	.0110	1/8	.0330	1-1/2	2	TR-2-0110-S	95809	21.90
-	-	.0120	1/8	.0180	1-1/2	2	TS-2-0120-S	95710	20.90
-	-	.0120	1/8	.0360	1-1/2	2	TR-2-0120-S	95810	21.90
-	-	.0130	1/8	.0200	1-1/2	2	TS-2-0130-S	95712	15.60
-	-	.0130	1/8	.0390	1-1/2	2	TR-2-0130-S	95812	16.30
-	-	.0140	1/8	.0210	1-1/2	2	TS-2-0140-S	95714	13.50
-	-	.0140	1/8	.0420	1-1/2	2	TR-2-0140-S	95814	14.10
-	-	.0150	1/8	.0230	1-1/2	2	TS-2-0150-S	95716	11.50
-	-	.0150	1/8	.0450	1-1/2	2	TR-2-0150-S	95816	12.10
1/64	-	.0156	1/8	.0310	1-1/2	2	SS-2-0156-S	95770	8.20
1/64	-	.0156	1/8	.0470	1-1/2	2	SR-2-0156-S	95870	8.50
-	-	.0160	1/8	.0240	1-1/2	2	TS-2-0160-S	95718	11.50
-	-	.0160	1/8	.0480	1-1/2	2	TR-2-0160-S	95818	12.10
-	-	.0170	1/8	.0260	1-1/2	2	TS-2-0170-S	95720	11.50
-	-	.0170	1/8	.0510	1-1/2	2	TR-2-0170-S	95820	12.10
-	-	.0180	1/8	.0270	1-1/2	2	TS-2-0180-S	95722	10.90
-	-	.0180	1/8	.0540	1-1/2	2	TR-2-0180-S	95822	11.50
-	-	.0190	1/8	.0290	1-1/2	2	TS-2-0190-S	95724	10.90
-	-	.0190	1/8	.0570	1-1/2	2	TR-2-0190-S	95824	11.50
-	-	.0200	1/8	.0300	1-1/2	2	TS-2-0200-S	95726	10.90
-	-	.0200	1/8	.0600	1-1/2	2	TR-2-0200-S	95826	11.50
-	-	.0210	1/8	.0320	1-1/2	2	TS-2-0210-S	95728	9.60
-	-	.0210	1/8	.0630	1-1/2	2	TR-2-0210-S	95828	10.00
-	-	.0220	1/8	.0330	1-1/2	2	TS-2-0220-S	95730	9.60
-	-	.0220	1/8	.0660	1-1/2	2	TR-2-0220-S	95830	10.00
-	-	.0230	1/8	.0350	1-1/2	2	TS-2-0230-S	95732	9.60
-	-	.0230	1/8	.0690	1-1/2	2	TR-2-0230-S	95832	10.00
-	-	.0240	1/8	.0360	1-1/2	2	TS-2-0240-S	95734	9.60
-	-	.0240	1/8	.0720	1-1/2	2	TR-2-0240-S	95834	10.00
-	-	.0250	1/8	.0380	1-1/2	2	TS-2-0250-S	95736	9.60
-	-	.0250	1/8	.0750	1-1/2	2	TR-2-0250-S	95836	10.00
-	-	.0260	1/8	.0390	1-1/2	2	TS-2-0260-S	95738	9.20
-	-	.0260	1/8	.0780	1-1/2	2	TR-2-0260-S	95838	9.60
-	-	.0270	1/8	.0410	1-1/2	2	TS-2-0270-S	95740	9.20
-	-	.0270	1/8	.0810	1-1/2	2	TR-2-0270-S	95840	9.60
-	-	.0280	1/8	.0420	1-1/2	2	TS-2-0280-S	95742	8.90
-	-	.0280	1/8	.0840	1-1/2	2	TR-2-0280-S	95842	9.40

Fractional Flute Diam.	Metric Flute Diam.	Decimal Flute Diam.	Shank Diam.	Length of Cut	Overall Length	No. of Flutes	Reference No.	Brite	
								EDP No.	Price
-	-	.0290	1/8	.0440	1-1/2	2	TS-2-0290-S	95744	8.90
-	-	.0290	1/8	.0870	1-1/2	2	TR-2-0290-S	95844	9.40
-	-	.0300	1/8	.0450	1-1/2	2	TS-2-0300-S	95746	8.90
-	-	.0300	1/8	.0900	1-1/2	2	TR-2-0300-S	95846	9.40
1/32	-	.0312	1/8	.0470	1-1/2	2	TS-2-0312-S	95748	8.10
1/32	-	.0312	1/8	.0630	1-1/2	2	SS-2-0312-S	95772	6.40
1/32	-	.0312	1/8	.0940	1-1/2	2	TR-2-0312-S	95848	8.50
1/32	-	.0312	1/8	.0940	1-1/2	2	SR-2-0312-S	95872	6.80
-	-	.0350	1/8	.0530	1-1/2	2	TS-2-0350-S	95750	8.10
-	-	.0350	1/8	.1050	1-1/2	2	TR-2-0350-S	95850	8.50
-	1.0 MM	.0394	1/8	.0790	1-1/2	2	SS-2-0394-S	95786	6.40
-	1.0 MM	.0394	1/8	.1180	1-1/2	2	SR-2-0394-S	95886	6.70
-	-	.0400	1/8	.0600	1-1/2	2	TS-2-0400-S	95752	7.90
-	-	.0400	1/8	.1200	1-1/2	2	TR-2-0400-S	95852	8.30
-	-	.0450	1/8	.0680	1-1/2	2	TS-2-0450-S	95754	7.90
-	-	.0450	1/8	.1350	1-1/2	2	TR-2-0450-S	95854	8.30
3/64	-	.0469	1/8	.0940	1-1/2	2	SS-2-0469-S	95774	6.10
3/64	-	.0469	1/8	.1250	1-1/2	2	SR-2-0469-S	95874	6.40
-	-	.0500	1/8	.0750	1-1/2	2	TS-2-0500-S	95756	7.50
-	-	.0500	1/8	.1500	1-1/2	2	TR-2-0500-S	95856	7.90
-	-	.0550	1/8	.0830	1-1/2	2	TS-2-0550-S	95758	7.50
-	-	.0550	1/8	.1650	1-1/2	2	TR-2-0550-S	95858	7.90
-	1.5 MM	.0591	1/8	.1190	1-1/2	2	SS-2-0591-S	95788	6.00
-	1.5 MM	.0591	1/8	.2360	1-1/2	2	SR-2-0591-S	95888	6.40
-	-	.0600	1/8	.0900	1-1/2	2	TS-2-0600-S	95760	7.30
-	-	.0600	1/8	.1800	1-1/2	2	TR-2-0600-S	95860	7.60
1/16	-	.0625	1/8	.0940	1-1/2	2	TS-2-0625-S	95762	7.30
1/16	-	.0625	1/8	.1250	1-1/2	2	SS-2-0625-S	95776	5.70
1/16	-	.0625	1/8	.1880	1-1/2	2	TR-2-0625-S	95862	7.60
1/16	-	.0625	1/8	.2500	1-1/2	2	SR-2-0625-S	95876	6.00
-	-	.0700	1/8	.1050	1-1/2	2	TS-2-0700-S	95764	6.90
-	-	.0700	1/8	.2100	1-1/2	2	TR-2-0700-S	95864	7.20
5/64	-	.0781	1/8	.1880	1-1/2	2	SS-2-0781-S	95778	5.70
5/64	-	.0781	1/8	.3750	1-1/2	2	SR-2-0781-S	95878	6.00
-	2.0 MM	.0787	1/8	.1570	1-1/2	2	SS-2-0787-S	95790	6.00
-	2.0 MM	.0787	1/8	.3940	1-1/2	2	SR-2-0787-S	95890	6.40
-	-	.0800	1/8	.1200	1-1/2	2	TS-2-0800-S	95766	6.90
-	-	.0800	1/8	.2400	1-1/2	2	TR-2-0800-S	95866	7.20
3/32	-	.0938	1/8	.1410	1-1/2	2	TS-2-0938-S	95768	6.40
3/32	-	.0938	1/8	.1880	1-1/2	2	SS-2-0938-S	95780	5.70
3/32	-	.0938	1/8	.2810	1-1/2	2	TR-2-0938-S	95868	6.80
3/32	-	.0938	1/8	.3750	1-1/2	2	SR-2-0938-S	95880	6.00
-	2.5 MM	.0984	1/8	.1970	1-1/2	2	SS-2-0984-S	95792	6.00
-	2.5 MM	.0984	1/8	.3940	1-1/2	2	SR-2-0984-S	95892	6.40
7/64	-	.1094	1/8	.2500	1-1/2	2	SS-2-1094-S	95782	5.70
7/64	-	.1094	1/8	.5000	1-1/2	2	SR-2-1094-S	95882	6.00
-	3.0 MM	.1181	1/8	.2360	1-1/2	2	SS-2-1181-S	95794	6.00
-	3.0 MM	.1181	1/8	.4470	1-1/2	2	SR-2-1181-S	95894	6.40
1/8	-	.1250	1/8	.2500	1-1/2	2	SS-2-1250-S	95784	5.70
1/8	-	.1250	1/8	.5000	1-1/2	2	SR-2-1250-S	95884	6.00

SOLID CARBIDE END MILLS

METRIC ENDMILLS - STANDARD LENGTH

SINGLE END SQUARE • 2-3-4 FLUTE

UNCOATED



DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	950-2039	950-3039	950-4039	\$8.28
1.5MM	5MM	38MM	950-2059	950-3059	950-4059	\$8.20
2MM	6MM	38MM	950-2078	950-3078	950-4078	\$6.60
2.5MM	7MM	38MM	950-2098	950-3098	950-4098	\$6.60
3MM	12MM	38MM	950-2118	950-3118	950-4118	\$5.10
3.5MM	12MM	50MM	950-2137	950-3137	950-4137	\$8.98
4MM	14MM	50MM	950-2157	950-3157	950-4157	\$8.62
4.5MM	14MM	50MM	950-2177	950-3177	950-4177	\$8.98
5MM	16MM	50MM	950-2196	950-3196	950-4196	\$9.68
6MM	19MM	63MM	950-2236	950-3236	950-4236	\$9.50
7MM	19MM	63MM	950-2275	950-3275	950-4275	\$13.50
8MM	19MM	63MM	950-2315	950-3315	950-4315	\$12.50
9MM	22MM	70MM	950-2354	950-3354	950-4354	\$22.44
10MM	22MM	70MM	950-2393	950-3393	950-4393	\$19.80
11MM	25MM	70MM	950-2433	950-3433	950-4433	\$29.92
12MM	25MM	75MM	950-2472	950-3472	950-4472	\$25.00
13MM	30MM	88MM	950-2512	950-3512	950-4512	\$49.68
14MM	30MM	88MM	950-2551	950-3551	950-4551	\$46.20
15MM	32MM	88MM	950-2591	950-3591	950-4591	\$66.24
16MM	32MM	88MM	950-2629	950-3629	950-4629	\$61.60
17MM	36MM	100MM	950-2669	950-3669	950-4669	\$75.50
18MM	36MM	100MM	950-2708	950-3708	950-4708	\$70.40
19MM	38MM	100MM	950-2748	950-3748	950-4748	\$90.84
20MM	38MM	100MM	950-2787	950-3787	950-4787	\$84.48
21MM	38MM	100MM	950-2827	950-3827	950-4827	\$111.16
22MM	38MM	100MM	950-2866	950-3866	950-4866	\$103.84
23MM	38MM	100MM	950-2906	950-3906	950-4906	\$131.20
24MM	38MM	100MM	950-2945	950-3945	950-4945	\$142.90
25MM	38MM	100MM	950-2984	950-3984	950-4984	\$122.00

SOLID CARBIDE END MILLS**METRIC ENDMILLS - STANDARD LENGTH**

SINGLE END SQUARE • 2-3-4 FLUTE

TIN COATED

DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	952-2039	952-3039	952-4039	\$9.26
1.5MM	5MM	38MM	952-2059	952-3059	952-4059	\$9.26
2MM	6MM	38MM	952-2078	952-3078	952-4078	\$7.53
2.5MM	7MM	38MM	952-2098	952-3098	952-4098	\$7.53
3MM	12MM	38MM	952-2118	952-3118	952-4118	\$6.13
3.5MM	12MM	50MM	952-2137	952-3137	952-4137	\$9.77
4MM	14MM	50MM	952-2157	952-3157	952-4157	\$9.59
4.5MM	14MM	50MM	952-2177	952-3177	952-4177	\$10.03
5MM	16MM	50MM	952-2196	952-3196	952-4196	\$10.58
6MM	19MM	63MM	952-2236	952-3236	952-4236	\$10.64
7MM	19MM	63MM	952-2275	952-3275	952-4275	\$14.27
8MM	19MM	63MM	952-2315	952-3315	952-4315	\$13.89
9MM	22MM	70MM	952-2354	952-3354	952-4354	\$23.93
10MM	22MM	70MM	952-2393	952-3393	952-4393	\$21.73
11MM	25MM	70MM	952-2433	952-3433	952-4433	\$31.97
12MM	25MM	75MM	952-2472	952-3472	952-4472	\$27.80
13MM	30MM	88MM	952-2512	952-3512	952-4512	\$49.25
14MM	30MM	88MM	952-2551	952-3551	952-4551	\$48.15
15MM	32MM	88MM	952-2591	952-3591	952-4591	\$65.15
16MM	32MM	88MM	952-2629	952-3629	952-4629	\$64.05
17MM	36MM	100MM	952-2669	952-3669	952-4669	\$75.25
18MM	36MM	100MM	952-2708	952-3708	952-4708	\$74.09
19MM	38MM	100MM	952-2748	952-3748	952-4748	\$89.90
20MM	38MM	100MM	952-2787	952-3787	952-4787	\$88.17
21MM	38MM	100MM	952-2827	952-3827	952-4827	\$109.12
22MM	38MM	100MM	952-2866	952-3866	952-4866	\$107.99
23MM	38MM	100MM	952-2906	952-3906	952-4906	\$127.10
24MM	38MM	100MM	952-2945	952-3945	952-4945	\$127.50
25MM	38MM	100MM	952-2984	952-3984	952-4984	\$126.37

SOLID CARBIDE END MILLS

METRIC ENDMILLS - STANDARD LENGTH

SINGLE END SQUARE • 2-3-4 FLUTE

TICN COAT-HTC PROGRESSIVE COAT



DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	953-2039	953-3039	953-4039	\$10.09
1.5MM	5MM	38MM	953-2059	953-3059	953-4059	\$10.09
2MM	6MM	38MM	953-2078	953-3078	953-4078	\$8.21
2.5MM	7MM	38MM	953-2098	953-3098	953-4098	\$8.21
3MM	12MM	38MM	953-2118	953-3118	953-4118	\$6.68
3.5MM	12MM	50MM	953-2137	953-3137	953-4137	\$10.65
4MM	14MM	50MM	953-2157	953-3157	953-4157	\$10.46
4.5MM	14MM	50MM	953-2177	953-3177	953-4177	\$10.94
5MM	16MM	50MM	953-2196	953-3196	953-4196	\$11.54
6MM	19MM	63MM	953-2236	953-3236	953-4236	\$11.60
7MM	19MM	63MM	953-2275	953-3275	953-4275	\$15.56
8MM	19MM	63MM	953-2315	953-3315	953-4315	\$15.14
9MM	22MM	70MM	953-2354	953-3354	953-4354	\$26.09
10MM	22MM	70MM	953-2393	953-3393	953-4393	\$23.68
11MM	25MM	70MM	953-2433	953-3433	953-4433	\$34.85
12MM	25MM	75MM	953-2472	953-3472	953-4472	\$30.31
13MM	30MM	88MM	953-2512	953-3512	953-4512	\$53.51
14MM	30MM	88MM	953-2551	953-3551	953-4551	\$52.49
15MM	32MM	88MM	953-2591	953-3591	953-4591	\$70.90
16MM	32MM	88MM	953-2629	953-3629	953-4629	\$69.82
17MM	36MM	100MM	953-2669	953-3669	953-4669	\$81.90
18MM	36MM	100MM	953-2708	953-3708	953-4708	\$80.76
19MM	38MM	100MM	953-2748	953-3748	953-4748	\$95.07
20MM	38MM	100MM	953-2787	953-3787	953-4787	\$96.10
21MM	38MM	100MM	953-2827	953-3827	953-4827	\$118.11
22MM	38MM	100MM	953-2866	953-3866	953-4866	\$117.09
23MM	38MM	100MM	953-2906	953-3906	953-4906	\$138.07
24MM	38MM	100MM	953-2945	953-3945	953-4945	\$138.20
25MM	38MM	100MM	953-2984	953-3984	953-4984	\$137.43

SOLID CARBIDE END MILLS**METRIC ENDMILLS - STANDARD LENGTH**

SINGLE END SQUARE • 2-3-4 FLUTE

ALTiN COATED - HTC HARD COAT

DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	954-2039	954-3039	954-4039	\$10.19
1.5MM	5MM	38MM	954-2059	954-3059	954-4059	\$10.19
2MM	6MM	38MM	954-2078	954-3078	954-4078	\$8.29
2.5MM	7MM	38MM	954-2098	954-3098	954-4098	\$8.29
3MM	12MM	38MM	954-2118	954-3118	954-4118	\$6.75
3.5MM	12MM	50MM	954-2137	954-3137	954-4137	\$10.75
4MM	14MM	50MM	954-2157	954-3157	954-4157	\$10.55
4.5MM	14MM	50MM	954-2177	954-3177	954-4177	\$11.04
5MM	16MM	50MM	954-2196	954-3196	954-4196	\$11.64
6MM	19MM	63MM	954-2236	954-3236	954-4236	\$11.71
7MM	19MM	63MM	954-2275	954-3275	954-4275	\$15.70
8MM	19MM	63MM	954-2315	954-3315	954-4315	\$15.28
9MM	22MM	70MM	954-2354	954-3354	954-4354	\$26.34
10MM	22MM	70MM	954-2393	954-3393	954-4393	\$23.91
11MM	25MM	70MM	954-2433	954-3433	954-4433	\$35.17
12MM	25MM	75MM	954-2472	954-3472	954-4472	\$30.59
13MM	30MM	88MM	954-2512	954-3512	954-4512	\$54.05
14MM	30MM	88MM	954-2551	954-3551	954-4551	\$52.97
15MM	32MM	88MM	954-2591	954-3591	954-4591	\$71.50
16MM	32MM	88MM	954-2629	954-3629	954-4629	\$70.46
17MM	36MM	100MM	954-2669	954-3669	954-4669	\$82.44
18MM	36MM	100MM	954-2708	954-3708	954-4708	\$81.50
19MM	38MM	100MM	954-2748	954-3748	954-4748	\$98.00
20MM	38MM	100MM	954-2787	954-3787	954-4787	\$96.99
21MM	38MM	100MM	954-2827	954-3827	954-4827	\$119.90
22MM	38MM	100MM	954-2866	954-3866	954-4866	\$118.79
23MM	38MM	100MM	954-2906	954-3906	954-4906	\$140.00
24MM	38MM	100MM	954-2945	954-3945	954-4945	\$140.25
25MM	38MM	100MM	954-2984	954-3984	954-4984	\$139.01

SOLID CARBIDE END MILLS

METRIC ENDMILLS - STANDARD LENGTH

SINGLE END BALL • 2-4 FLUTE

UNCOATED



DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	955-2039	955-3039	955-4039	\$9.60
1.5MM	5MM	38MM	955-2059	955-3059	955-4059	\$9.60
2MM	6MM	38MM	955-2078	955-3078	955-4078	\$7.92
2.5MM	7MM	38MM	955-2098	955-3098	955-4098	\$7.92
3MM	12MM	38MM	955-2118	955-3118	955-4118	\$7.92
3.5MM	12MM	50MM	955-2137	955-3137	955-4137	\$10.92
4MM	14MM	50MM	955-2157	955-3157	955-4157	\$10.56
4.5MM	14MM	50MM	955-2177	955-3177	955-4177	\$10.92
5MM	16MM	50MM	955-2196	955-3196	955-4196	\$11.62
6MM	19MM	63MM	955-2236	955-3236	955-4236	\$13.56
7MM	19MM	63MM	955-2275	955-3275	955-4275	\$21.20
8MM	19MM	63MM	955-2315	955-3315	955-4315	\$16.67
9MM	22MM	70MM	955-2354	955-3354	955-4354	\$27.54
10MM	22MM	70MM	955-2393	955-3393	955-4393	\$24.90
11MM	25MM	70MM	955-2433	955-3433	955-4433	\$33.00
12MM	25MM	75MM	955-2472	955-3472	955-4472	\$32.00
13MM	30MM	88MM	955-2512	955-3512	955-4512	\$48.10
14MM	30MM	88MM	955-2551	955-3551	955-4551	\$47.00
15MM	32MM	88MM	955-2591	955-3591	955-4591	\$63.90
16MM	32MM	88MM	955-2629	955-3629	955-4629	\$62.86
17MM	36MM	100MM	955-2669	955-3669	955-4669	\$84.75
18MM	36MM	100MM	955-2708	955-3708	955-4708	\$83.52
19MM	38MM	100MM	955-2748	955-3748	955-4748	\$104.90
20MM	38MM	100MM	955-2787	955-3787	955-4787	\$103.84
21MM	38MM	100MM	955-2827	955-3827	955-4827	\$124.60
22MM	38MM	100MM	955-2866	955-3866	955-4866	\$123.20
23MM	38MM	100MM	955-2906	955-3906	955-4906	\$152.40
24MM	38MM	100MM	955-2945	955-3945	955-4945	\$152.75
25MM	38MM	100MM	955-2984	955-3984	955-4984	\$151.36

SOLID CARBIDE END MILLS**METRIC ENDMILLS - STANDARD LENGTH**

SINGLE END BALL • 2-4 FLUTE

TIN COATED

DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	957-2039	957-3039	957-4039	\$10.20
1.5MM	5MM	38MM	957-2059	957-3059	957-4059	\$10.20
2MM	6MM	38MM	957-2078	957-3078	957-4078	\$8.51
2.5MM	7MM	38MM	957-2098	957-3098	957-4098	\$8.51
3MM	12MM	38MM	957-2118	957-3118	957-4118	\$8.51
3.5MM	12MM	50MM	957-2137	957-3137	957-4137	\$11.65
4MM	14MM	50MM	957-2157	957-3157	957-4157	\$11.45
4.5MM	14MM	50MM	957-2177	957-3177	957-4177	\$11.65
5MM	16MM	50MM	957-2196	957-3196	957-4196	\$12.68
6MM	19MM	63MM	957-2236	957-3236	957-4236	\$14.61
7MM	19MM	63MM	957-2275	957-3275	957-4275	\$22.37
8MM	19MM	63MM	957-2315	957-3315	957-4315	\$17.81
9MM	22MM	70MM	957-2354	957-3354	957-4354	\$28.97
10MM	22MM	70MM	957-2393	957-3393	957-4393	\$26.05
11MM	25MM	70MM	957-2433	957-3433	957-4433	\$35.09
12MM	25MM	75MM	957-2472	957-3472	957-4472	\$34.11
13MM	30MM	88MM	957-2512	957-3512	957-4512	\$50.33
14MM	30MM	88MM	957-2551	957-3551	957-4551	\$49.21
15MM	32MM	88MM	957-2591	957-3591	957-4591	\$66.25
16MM	32MM	88MM	957-2629	957-3629	957-4629	\$65.18
17MM	36MM	100MM	957-2669	957-3669	957-4669	\$86.90
18MM	36MM	100MM	957-2708	957-3708	957-4708	\$85.74
19MM	38MM	100MM	957-2748	957-3748	957-4748	\$107.10
20MM	38MM	100MM	957-2787	957-3787	957-4787	\$106.03
21MM	38MM	100MM	957-2827	957-3827	957-4827	\$127.30
22MM	38MM	100MM	957-2866	957-3866	957-4866	\$126.15
23MM	38MM	100MM	957-2906	957-3906	957-4906	\$155.00
24MM	38MM	100MM	957-2945	957-3945	957-4945	\$155.25
25MM	38MM	100MM	957-2984	957-3984	957-4984	\$154.00

SOLID CARBIDE END MILLS

METRIC ENDMILLS - STANDARD LENGTH

SINGLE END BALL • 2-4 FLUTE

TICN COAT - HTC PROGRESSIVE COAT



DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	958-2039	958-3039	958-4039	\$10.47
1.5MM	5MM	38MM	958-2059	958-3059	958-4059	\$10.47
2MM	6MM	38MM	958-2078	958-3078	958-4078	\$8.64
2.5MM	7MM	38MM	958-2098	958-3098	958-4098	\$8.64
3MM	12MM	38MM	958-2118	958-3118	958-4118	\$8.64
3.5MM	12MM	50MM	958-2137	958-3137	958-4137	\$11.91
4MM	14MM	50MM	958-2157	958-3157	958-4157	\$11.52
4.5MM	14MM	50MM	958-2177	958-3177	958-4177	\$11.93
5MM	16MM	50MM	958-2196	958-3196	958-4196	\$12.67
6MM	19MM	63MM	958-2236	958-3236	958-4236	\$14.79
7MM	19MM	63MM	958-2275	958-3275	958-4275	\$23.12
8MM	19MM	63MM	958-2315	958-3315	958-4315	\$18.18
9MM	22MM	70MM	958-2354	958-3354	958-4354	\$30.02
10MM	22MM	70MM	958-2393	958-3393	958-4393	\$27.15
11MM	25MM	70MM	958-2433	958-3433	958-4433	\$35.98
12MM	25MM	75MM	958-2472	958-3472	958-4472	\$34.88
13MM	30MM	88MM	958-2512	958-3512	958-4512	\$52.50
14MM	30MM	88MM	958-2551	958-3551	958-4551	\$51.23
15MM	32MM	88MM	958-2591	958-3591	958-4591	\$67.90
16MM	32MM	88MM	958-2629	958-3629	958-4629	\$66.57
17MM	36MM	100MM	958-2669	958-3669	958-4669	\$88.50
18MM	36MM	100MM	958-2708	958-3708	958-4708	\$87.38
19MM	38MM	100MM	958-2748	958-3748	958-4748	\$110.25
20MM	38MM	100MM	958-2787	958-3787	958-4787	\$109.18
21MM	38MM	100MM	958-2827	958-3827	958-4827	\$130.75
22MM	38MM	100MM	958-2866	958-3866	958-4866	\$129.38
23MM	38MM	100MM	958-2906	958-3906	958-4906	\$160.00
24MM	38MM	100MM	958-2945	958-3945	958-4945	\$160.25
25MM	38MM	100MM	958-2984	958-3984	958-4984	\$158.98

SOLID CARBIDE END MILLS

METRIC ENDMILLS - STANDARD LENGTH

SINGLE END BALL • 2-4 FLUTE

ALTIN COATED - **HTC** HARD COAT



DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART #	3 FLUTE PART#	4 FLUTE PART #	LIST PRICE
1MM	3MM	38MM	959-2039	959-3039	959-4039	\$10.56
1.5MM	5MM	38MM	959-2059	959-3059	959-4059	\$10.56
2MM	6MM	38MM	959-2078	959-3078	959-4078	\$8.72
2.5MM	7MM	38MM	959-2098	959-3098	959-4098	\$8.72
3MM	12MM	38MM	959-2118	959-3118	959-4118	\$8.72
3.5MM	12MM	50MM	959-2137	959-3137	959-4137	\$12.03
4MM	14MM	50MM	959-2157	959-3157	959-4157	\$11.64
4.5MM	14MM	50MM	959-2177	959-3177	959-4177	\$12.04
5MM	16MM	50MM	959-2196	959-3196	959-4196	\$12.79
6MM	19MM	63MM	959-2236	959-3236	959-4236	\$14.96
7MM	19MM	63MM	959-2275	959-3275	959-4275	\$23.32
8MM	19MM	63MM	959-2315	959-3315	959-4315	\$18.47
9MM	22MM	70MM	959-2354	959-3354	959-4354	\$30.29
10MM	22MM	70MM	959-2393	959-3393	959-4393	\$27.38
11MM	25MM	70MM	959-2433	959-3433	959-4433	\$36.30
12MM	25MM	75MM	959-2472	959-3472	959-4472	\$35.20
13MM	30MM	88MM	959-2512	959-3512	959-4512	\$52.90
14MM	30MM	88MM	959-2551	959-3551	959-4551	\$51.70
15MM	32MM	88MM	959-2591	959-3591	959-4591	\$69.45
16MM	32MM	88MM	959-2629	959-3629	959-4629	\$68.14
17MM	36MM	100MM	959-2669	959-3669	959-4669	\$90.90
18MM	36MM	100MM	959-2708	959-3708	959-4708	\$89.87
19MM	38MM	100MM	959-2748	959-3748	959-4748	\$110.45
20MM	38MM	100MM	959-2787	959-3787	959-4787	\$109.22
21MM	38MM	100MM	959-2827	959-3827	959-4827	\$132.90
22MM	38MM	100MM	959-2866	959-3866	959-4866	\$131.52
23MM	38MM	100MM	959-2906	959-3906	959-4906	\$161.50
24MM	38MM	100MM	959-2945	959-3945	959-4945	\$162.00
25MM	38MM	100MM	959-2984	959-3984	959-4984	\$160.49

SOLID CARBIDE END MILLS

METRIC ENDMILLS - LONG & EXTRA LONG LENGTH

SINGLE END SQUARE • 2-4 FLUTE

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3MM	25MM	75MM	460-2119	460-4119	\$8.91
3MM	25MM	100MM	460-2122	460-4122	\$12.93
4MM	19MM	57MM	460-2160	460-4160	\$11.17
4MM	25MM	75MM	460-2162	460-4162	\$12.38
4MM	25MM	100MM	460-2164	460-4164	\$14.80
4MM	50MM	100MM	460-2166	460-4166	\$16.03
5MM	25MM	75MM	460-2200	460-4200	\$12.50
5MM	30MM	100MM	460-2202	460-4202	\$14.09
6MM	25MM	75MM	460-2240	460-4240	\$15.16
6MM	30MM	100MM	460-2242	460-4242	\$17.10
6MM	50MM	100MM	460-2244	460-4244	\$19.05
8MM	30MM	100MM	460-2320	460-4320	\$18.37
8MM	50MM	150MM	460-2322	460-4322	\$22.91
10MM	38MM	100MM	460-2340	460-4340	\$31.57
10MM	75MM	150MM	460-2342	460-4342	\$46.00
12MM	50MM	100MM	460-2480	460-4480	\$44.63
12MM	75MM	150MM	460-2482	460-4482	\$63.94
14MM	50MM	125MM	460-2554	460-4554	\$71.03
14MM	75MM	150MM	460-2556	460-4556	\$79.41
16M	75MM	150MM	460-2640	460-4640	\$92.73
18MM	75MM	150MM	460-2712	460-4712	\$119.00
20MM	75MM	150MM	460-2790	460-4790	\$163.00
25MM	75MM	150MM	460-2990	460-4990	\$231.00

SOLID CARBIDE END MILLS

METRIC ENDMILLS - LONG & EXTRA LONG LENGTH

SINGLE END SQUARE • 2-4 FLUTE

TIN COATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3MM	25MM	75MM	462-2119	462-4119	\$10.02
3MM	25MM	100MM	462-2122	462-4122	\$14.16
4MM	19MM	57MM	462-2160	462-4160	\$12.67
4MM	25MM	75MM	462-2162	462-4162	\$13.11
4MM	25MM	100MM	462-2164	462-4164	\$15.40
4MM	50MM	100MM	462-2166	462-4166	\$17.47
5MM	25MM	75MM	462-2200	462-4200	\$13.11
5MM	30MM	100MM	462-2202	462-4202	\$14.99
6MM	25MM	75MM	462-2240	462-4240	\$16.05
6MM	30MM	100MM	462-2242	462-4242	\$17.97
6MM	50MM	100MM	462-2244	462-4244	\$19.03
8MM	30MM	100MM	462-2320	462-4320	\$19.14
8MM	50MM	150MM	462-2322	462-4322	\$24.18
10MM	38MM	100MM	462-2340	462-4340	\$33.57
10MM	75MM	150MM	462-2342	462-4342	\$47.83
12MM	50MM	100MM	462-2480	462-4480	\$46.51
12MM	75MM	150MM	462-2482	462-4482	\$66.92
14MM	50MM	125MM	462-2554	462-4554	\$72.09
14MM	75MM	150MM	462-2556	462-4556	\$81.21
16M	75MM	150MM	462-2640	462-4640	\$96.10
18MM	75MM	150MM	462-2712	462-4712	\$123.00
20MM	75MM	150MM	462-2790	462-4790	\$186.00
25MM	75MM	150MM	462-2990	462-4990	\$235.00

SOLID CARBIDE END MILLS

METRIC ENDMILLS - LONG & EXTRA LONG LENGTH

SINGLE END SQUARE • 2-4 FLUTE

ALTiN COATED - **HTC** HARD COAT



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
3MM	25MM	75MM	464-2119	464-4119	\$10.91
3MM	25MM	100MM	464-2122	464-4122	\$14.97
4MM	19MM	57MM	464-2160	464-4160	\$13.51
4MM	25MM	75MM	464-2162	464-4162	\$14.07
4MM	25MM	100MM	464-2164	464-4164	\$16.13
4MM	50MM	100MM	464-2166	464-4166	\$18.57
5MM	25MM	75MM	464-2200	464-4200	\$14.57
5MM	30MM	100MM	464-2202	464-4202	\$16.10
6MM	25MM	75MM	464-2240	464-4240	\$17.15
6MM	30MM	100MM	464-2242	464-4242	\$19.03
6MM	50MM	100MM	464-2244	464-4244	\$21.07
8MM	30MM	100MM	464-2320	464-4320	\$20.14
8MM	50MM	150MM	464-2322	464-4322	\$26.06
10MM	38MM	100MM	464-2340	464-4340	\$35.00
10MM	75MM	150MM	464-2342	464-4342	\$49.88
12MM	50MM	100MM	464-2480	464-4480	\$48.01
12MM	75MM	150MM	464-2482	464-4482	\$68.00
14MM	50MM	125MM	464-2554	464-4554	\$76.00
14MM	75MM	150MM	464-2556	464-4556	\$84.51
16M	75MM	150MM	464-2640	464-4640	\$98.11
18MM	75MM	150MM	464-2712	464-4712	\$126.00
20MM	75MM	150MM	464-2790	464-4790	\$190.02
25MM	75MM	150MM	464-2990	464-4990	\$239.00

SOLID CARBIDE DRILLS

JOBBER LENGTH • METRIC

UNCOATED



CUTTER DIA.	FLUTE LENGTH	O.A. LENGTH	PART #	LIST PRICE
1.0MM	16MM	38MM	957-0394	\$7.34
1.5MM	19MM	38MM	957-0591	\$6.86
2.0MM	22MM	44MM	957-0787	\$7.24
2.5MM	25MM	51MM	957-0984	\$8.30
3.0MM	32MM	57MM	957-1181	\$9.26
3.5MM	35MM	64MM	957-1378	\$10.46
4.0MM	35MM	64MM	957-1575	\$12.16
4.5MM	41MM	70MM	957-1772	\$14.00
5.0MM	44MM	76MM	957-1969	\$15.94
5.5MM	44MM	76MM	957-2165	\$14.78
6.0MM	51MM	83MM	957-2362	\$22.86
6.5MM	51MM	83MM	957-2559	\$24.96
7.0MM	57MM	89MM	957-2756	\$27.20
7.5MM	60MM	95MM	957-2953	\$22.20
8.0MM	60MM	95MM	957-3150	\$33.32
8.5MM	64MM	102MM	957-3346	\$37.76
9.0MM	64MM	102MM	957-3543	\$41.70
9.5MM	70MM	108MM	957-3740	\$33.40
10.0MM	73MM	114MM	957-3937	\$54.26
10.5MM	73MM	114MM	957-4134	\$46.98
11.0MM	73MM	114MM	957-4331	\$50.90
11.5MM	76MM	121MM	957-4528	\$55.24
12MM	76MM	121MM	957-4724	\$61.26
12.5MM	76MM	121MM	957-4921	\$63.28

SOLID CARBIDE DRILLS

SCREW MACHINE - 135° METRIC - POINT

UNCOATED



CUTTER DIA.	FLUTE LENGTH	O.A. LENGTH	PART #	LIST PRICE
1.0MM	13MM	38MM	959-0394	\$6.54
1.5MM	13MM	38MM	959-0591	\$6.60
2.0MM	19MM	44MM	959-0797	\$7.08
2.5MM	21MM	46MM	959-0984	\$8.14
3.0MM	22MM	48MM	959-1181	\$9.02
3.5MM	24MM	49MM	959-1378	\$10.78
4.0MM	27MM	54MM	959-1575	\$12.32
4.5MM	29MM	56MM	959-1772	\$14.26
5.0MM	30MM	57MM	959-1969	\$15.82
5.5MM	32MM	60MM	959-2165	\$14.74
6.0MM	33MM	62MM	959-2362	\$20.60
6.5MM	35MM	64MM	959-2559	\$24.24
7.0MM	38MM	68MM	959-2756	\$26.50
7.5MM	40MM	70MM	959-2953	\$25.54
8.0MM	41MM	71MM	959-3150	\$32.52
8.5MM	43MM	76MM	959-2246	\$35.02
9.0MM	44MM	78MM	959-3543	\$40.58
9.5MM	46MM	79MM	959-3740	\$37.20
10.0MM	48MM	83MM	959-3937	\$47.90
10.5MM	51MM	86MM	959-4134	\$49.52
11.0MM	51MM	86MM	959-4331	\$54.26
11.5MM	52MM	87MM	959-4528	\$66.62
12.0MM	54MM	92MM	959-4740	\$68.36
12.5MM	56MM	94MM	959-4921	\$62.80

SOLID CARBIDE DRILLS

CENTER DRILL

60° - 82° - 90°

UNCOATED



SIZE	DRILL DIAMETER	O.A. LENGTH	BODY DIAMETER	60° PART#	LIST PRICE	82° PART#	LIST PRICE	90° PART#	LIST PRICE
00	.025	1-1/2"	1/8"	585-0250	\$10.00	586-0250	\$11.00	587-0250	\$11.00
0	.031	1-1/2"	1/8"	585-0310	\$9.00	586-0310	\$9.90	587-0310	\$9.90
1	.046	1-1/2"	1/8"	585-0460	\$8.50	586-0460	\$9.35	587-0460	\$9.35
2	.078	2"	3/16"	585-0782	\$9.00	586-0782	\$9.90	587-0782	\$9.90
3	.109	2"	1/4"	585-1092	\$10.00	586-1092	\$11.00	587-1092	\$11.00
4	.125	2-1/2"	5/16"	585-1250	\$16.00	586-1250	\$17.60	587-1250	\$17.60
5	.187	2-3/4"	7/16"	585-1870	\$28.00	586-1870	\$30.80	587-1870	\$30.80
6	.218	3"	1/2"	585-2183	\$36.00	586-2183	\$39.60	587-2183	\$39.60
7	.250	3-1/2"	5/8"	585-2500	\$76.00	586-2500	\$83.60	587-2500	\$83.60
8	.312	4"	3/4"	585-3124	\$108.00	586-3124	\$118.80	587-3124	\$118.80
1	.046	4"	1/8"	585-0464	\$15.00	586-0464	\$16.50	587-0464	\$16.50
2	.078	4"	3/16"	585-0784	\$25.00	586-0784	\$27.50	587-0784	\$27.50
3	.109	4"	1/4"	585-1094	\$29.00	586-1094	\$31.90	587-1094	\$31.90
3	.109	6"	1/4"	585-1096	\$37.00	586-1096	\$40.70	587-1096	\$40.70
4	.125	4"	5/16"	585-1254	\$35.00	586-1254	\$38.50	587-1254	\$38.50
4	.125	6"	5/16"	585-1256	\$45.00	586-1256	\$49.50	587-1256	\$49.50
5	.187	4"	7/16"	585-1874	\$53.64	586-1874	\$58.30	587-1874	\$58.30
5	.187	6"	7/16"	585-1876	\$64.00	586-1876	\$70.40	587-1876	\$70.40
6	.218	4"	1/2"	585-2184	\$52.00	586-2184	\$57.20	587-2184	\$57.20
6	.218	6"	1/2"	585-2186	\$78.00	586-2186	\$85.20	587-2186	\$85.20

SOLID CARBIDE DRILLS

SPADE DRILLS - SPOTTING DRILL

UNCOATED

SPADE DRILL



CUTTER DIA	O.A. LENGTH	PART #	LIST PRICE
3/32"	1-1/2"	590-0938	\$5.00
1/8"	1-1/2"	590-1250	\$5.00
5/32"	2"	590-1562	\$7.00
3/16"	2"	590-1875	\$7.00
7/32"	2"	590-2188	\$11.00
1/4"	2"	590-2500	\$10.00
9/32"	2"	590-2812	\$15.00
5/16"	2-1/2"	590-3125	\$14.00
11/32"	2-1/2"	590-3438	\$20.00
3/8"	2-1/2"	590-3750	\$18.00
13/32"	2-1/2"	590-4062	\$26.00
7/16"	2-3/4"	590-4375	\$24.00
15/32"	2-1/2"	590-4688	\$34.00
1/2"	3"	590-5000	\$32.00

SPOTTING DRILL 60-90-120



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART #	LIST PRICE
1/4	1	2-1/2	595-2500	\$15.00
1/4	1-3/8	4	595-2504	\$24.00
3/8	1	2-1/2	595-3750	\$23.00
3/8	1-1/2	6	595-3756	\$39.00
1/2	1-1/4	3	595-5000	\$43.00
1/2	1-1/2	6	595-5006	\$67.00
5/8	1-1/4	3-1/2	595-6250	\$61.00
5/8	2	6	595-6256	\$88.00
3/4	1-1/2	4	595-7500	\$84.00
3/4	2	6	595-7506	\$120.00

Series 500



TOOL - CUTTER MANUFACTURING

SOLID CARBIDE DRILLS

DRILL MILL • SINGLE END • 2 OR 4 FLUTE 90° POINT
UNCOATED

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1/8"	1/2"	1-1/2"	500-2125	500-4125	\$9.76
3/16"	3/16"	5/8"	2"	500-2187	500-4187	\$12.00
1/4"	1/4"	3/4"	2-1/2"	500-2250	500-4250	\$14.46
5/16"	5/16"	13/16"	2-1/2"	500-2312	500-4312	\$19.50
3/8"	3/8"	1"	2-1/2"	500-2375	500-4375	\$21.76
7/16"	7/16"	1"	2-1/2"	500-2437	500-4437	\$36.00
1/2"	1/2"	1"	3"	500-2500	500-4500	\$39.00
5/8"	5/8"	1-1/4"	3-1/2"	500-2625	500-4625	\$66.00
3/4"	3/4"	1-1/2"	4"	500-2750	500-4750	\$105.00



Series 505

SOLID CARBIDE DRILLS

DRILL MILL • SINGLE END • 2 OR 4 FLUTE 90° POINT
ALTiN COATED - **HTC** HARD COAT

CUTTER DIA	SHANK DIAMETER	FLUTE LENGTH	O.A. LENGTH	2 FLUTE PART#	4 FLUTE PART#	LIST PRICE
1/8"	1/8"	1/2"	1-1/2"	505-2125	505-4125	\$11.80
3/16"	3/16"	5/8"	2"	505-2187	505-4187	\$15.00
1/4"	1/4"	3/4"	2-1/2"	505-2250	505-4250	\$19.56
5/16"	5/16"	13/16"	2-1/2"	505-2312	505-4312	\$26.50
3/8"	3/8"	1"	2-1/2"	505-2375	505-4375	\$28.76
7/16"	7/16"	1"	2-1/2"	505-2437	505-4437	\$45.60
1/2"	1/2"	1"	3"	505-2500	505-4500	\$49.00
5/8"	5/8"	1-1/4"	3-1/2"	505-2625	505-4625	\$79.00
3/4"	3/4"	1-1/2"	4"	505-2750	505-4750	\$117.50



SOLID CARBIDE DRILLS

JOBBER LENGTH • FRACTIONAL SIZES

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1/16"	3/4"	1-1/2"	550-0625	\$5.96
5/64"	7/8"	1-3/4"	550-0781	\$6.30
3/32"	1"	2"	550-0938	\$7.14
7/64"	1-1/4"	2-1/4"	550-1094	\$7.84
1/8"	1-1/4"	2-1/4"	550-1250	\$8.06
9/64"	1-3/8"	2-1/2"	550-1406	\$9.66
5/32"	1-3/8"	2-1/2"	550-1562	\$10.16
11/64"	1-5/8"	2-3/4"	550-1719	\$11.90
3/16"	1-5/8"	2-3/4"	550-1875	\$11.90
13/64"	1-3/4"	3"	550-2031	\$14.50
7/32"	1-3/4"	3"	550-2188	\$14.78
15/64"	2"	3-1/4"	550-2344	\$17.64
1/4"	2"	3-1/4"	550-2500	\$17.44
17/64"	2-1/8"	3-1/2"	550-2656	\$18.76
9/32"	2-1/8"	3-1/2"	550-2812	\$20.00
19/64"	2-3/8"	3-3/4"	550-2969	\$22.20
5/16"	2-3/8"	3-3/4"	550-3125	\$23.38
21/64"	2-1/2"	4"	550-3281	\$25.98
11/32"	2-1/2"	4"	550-3438	\$28.70
23/64"	2-3/4"	4-1/4"	550-3594	\$31.24
3/8"	2-3/4"	4-1/4"	550-3750	\$33.40
25/64"	2-7/8"	4-1/2"	550-3906	\$38.64
13/32"	2-7/8"	4-1/2"	550-4062	\$42.98
27/64"	2-7/8"	4-1/2"	550-4219	\$46.98
7/16"	2-7/8"	4-1/2"	550-4375	\$50.90
29/64"	3"	4-3/4"	550-4531	\$55.24
15/32"	3"	4-3/4"	550-4688	\$59.44
31/64"	3"	4-3/4"	550-4844	\$61.26
1/2"	3"	4-3/4"	550-5000	\$63.28
9/16"	3-1/4"	5"	550-5625	\$116.46
5/8"	4-1/4"	6"	550-6250	\$136.50
3/4"	4-1/4"	6"	550-7500	\$179.42

OTHER SIZES AVAILABLE

Series 552

HTC 

TOOL - CUTTER MANUFACTURING

SOLID CARBIDE DRILLS**JOBBER LENGTH • FRACTIONAL SIZES • 3 FLUTE 150° POINT
UNCOATED**

CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1/16"	3/4"	1-1/2"	552-0625	\$6.74
5/64"	7/8"	1-3/4"	552-0781	\$7.12
3/32"	1"	2"	552-0938	\$8.07
7/64"	1-1/4"	2-1/4"	552-1094	\$8.86
1/8"	1-1/4"	2-1/4"	552-1250	\$9.11
9/64"	1-3/8"	2-1/2"	552-1406	\$10.92
5/32"	1-3/8"	2-1/2"	552-1562	\$11.48
11/64"	1-5/8"	2-3/4"	552-1719	\$13.45
3/16"	1-5/8"	2-3/4"	552-1875	\$13.45
13/64"	1-3/4"	3"	552-2031	\$16.39
7/32"	1-3/4"	3"	552-2188	\$16.71
15/64"	2"	3-1/4"	552-2344	\$19.94
1/4"	2"	3-1/4"	552-2500	\$19.71
17/64"	2-1/8"	3-1/2"	552-2656	\$21.20
9/32"	2-1/8"	3-1/2"	552-2812	\$22.60
19/64"	2-3/8"	3-3/4"	552-2969	\$25.09
5/16"	2-3/8"	3-3/4"	552-3125	\$26.42
21/64"	2-1/2"	4"	552-3281	\$29.36
11/32"	2-1/2"	4"	552-3438	\$32.43
23/64"	2-3/4"	4-1/4"	552-3594	\$35.31
3/8"	2-3/4"	4-1/4"	552-3750	\$37.75
25/64"	2-7/8"	4-1/2"	552-3906	\$43.67
13/32"	2-7/8"	4-1/2"	552-4062	\$48.57
27/64"	2-7/8"	4-1/2"	552-4219	\$53.09
7/16"	2-7/8"	4-1/2"	552-4375	\$57.52
29/64"	3"	4-3/4"	552-4531	\$62.43
15/32"	3"	4-3/4"	552-4688	\$67.17
31/64"	3"	4-3/4"	552-4844	\$69.23
1/2"	3"	4-3/4"	552-5000	\$71.51
9/16"	3-1/4"	5"	552-5625	\$131.60
5/8"	4-1/4"	6"	552-6250	\$154.25
3/4"	4-1/4"	6"	552-7500	\$202.75

OTHER SIZES AVAILABLE

SOLID CARBIDE DRILLS

JOBBER LENGTH • LETTER SIZES

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
A	2"	3-1/4"	555-2344	\$22.22
B	2"	3-1/4"	555-2380	\$22.86
C	2"	3-1/4"	555-2420	\$23.00
D	2"	3-1/4"	555-2460	\$23.60
E	2"	3-1/4"	555-2500	\$21.34
F	2"	3-1/4"	555-2570	\$24.96
G	2-1/8"	3-1/2"	555-2610	\$25.86
H	2-1/8"	3-1/2"	555-2660	\$26.04
I	2-1/8"	3-1/2"	555-2720	\$26.48
J	2-1/8"	3-1/2"	555-2770	\$27.20
K	2-1/8"	3-1/2"	555-2810	\$27.54
L	2-1/8"	3-1/2"	555-2900	\$28.66
M	2-3/8"	3-3/4"	555-2950	\$29.72
N	2-3/8"	3-3/4"	555-3020	\$31.48
O	2-3/8"	3-3/4"	555-3160	\$33.32
P	2-3/8"	3-3/4"	555-3230	\$34.46
Q	2-1/2"	4"	555-3320	\$36.70
R	2-1/2"	4"	555-3390	\$37.76
S	2-1/2"	4"	555-3480	\$40.26
T	2-3/4"	4-1/4"	555-3580	\$41.70
U	2-3/4"	4-1/4"	555-3680	\$43.80
V	2-3/4"	4-1/4"	555-3770	\$47.34
W	2-7/8"	4-1/2"	555-3860	\$49.74
X	2-7/8"	4-1/2"	555-3970	\$54.26
Y	2-7/8"	4-1/2"	555-4040	\$56.14
Z	2-7/8"	4-1/2"	555-4130	\$69.64

SOLID CARBIDE DRILLS

JOBBER LENGTH • LETTER SIZES - 3 FLUTE 150° POINT
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
A	2"	3-1/4"	553-2344	\$25.11
B	2"	3-1/4"	553-2380	\$25.84
C	2"	3-1/4"	553-2420	\$25.99
D	2"	3-1/4"	553-2460	\$26.67
E	2"	3-1/4"	553-2500	\$24.12
F	2"	3-1/4"	553-2570	\$28.21
G	2-1/8"	3-1/2"	553-2610	\$29.23
H	2-1/8"	3-1/2"	553-2660	\$29.43
I	2-1/8"	3-1/2"	553-2720	\$29.93
J	2-1/8"	3-1/2"	553-2770	\$30.74
K	2-1/8"	3-1/2"	553-2810	\$31.13
L	2-1/8"	3-1/2"	553-2900	\$32.39
M	2-3/8"	3-3/4"	553-2950	\$33.59
N	2-3/8"	3-3/4"	553-3020	\$35.58
O	2-3/8"	3-3/4"	553-3160	\$37.66
P	2-3/8"	3-3/4"	553-3230	\$38.94
Q	2-1/2"	4"	553-3320	\$41.48
R	2-1/2"	4"	553-3390	\$42.67
S	2-1/2"	4"	553-3480	\$45.50
T	2-3/4"	4-1/4"	553-3580	\$47.13
U	2-3/4"	4-1/4"	553-3680	\$49.50
V	2-3/4"	4-1/4"	553-3770	\$53.50
W	2-7/8"	4-1/2"	553-3860	\$56.21
X	2-7/8"	4-1/2"	553-3970	\$61.32
Y	2-7/8"	4-1/2"	553-4040	\$63.44
Z	2-7/8"	4-1/2"	553-4130	\$78.70

SOLID CARBIDE DRILLS

JOBBER LENGTH • NUMBER SIZES

UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1	1-3/4"	3"	560-2280	\$20.44	21	1-3/8"	2-1/2"	560-1590	\$12.16	41	1"	2"	560-0960	\$7.98
2	1-3/4"	3"	560-2210	\$18.28	22	1-3/8"	2-1/2"	560-1570	\$11.92	42	1"	2"	560-0935	\$7.88
3	1-3/4"	3"	560-2130	\$17.54	23	1-3/8"	2-1/2"	560-1540	\$11.44	43	1"	2"	560-0890	\$7.72
4	1-3/4"	3"	560-2090	\$16.74	24	1-3/8"	2-1/2"	560-1520	\$11.20	44	1"	2"	560-0860	\$7.72
5	1-3/4"	3"	560-2055	\$16.74	25	1-3/8"	2-1/2"	560-1495	\$11.20	45	7/8"	1-3/4"	560-0820	\$7.40
6	1-3/4"	3"	560-2040	\$16.52	26	1-3/8"	2-1/2"	560-1470	\$11.20	46	7/8"	1-3/4"	560-0810	\$7.24
7	1-3/4"	3"	560-2010	\$15.94	27	1-3/8"	2-1/2"	560-1440	\$10.46	47	7/8"	1-3/4"	560-0785	\$7.24
8	1-3/4"	3"	560-1990	\$15.94	28	1-3/8"	2-1/2"	560-1405	\$10.46	48	7/8"	1-3/4"	560-0760	\$7.24
9	1-3/4"	3"	560-1960	\$15.94	29	1-3/8"	2-1/2"	560-1360	\$10.46	49	7/8"	1-3/4"	560-0730	\$7.02
10	1-5/8"	2-3/4"	560-1935	\$14.98	30	1-1/4"	2-1/4"	560-1285	\$9.66	50	7/8"	1-3/4"	560-0700	\$6.90
11	1-5/8"	2-3/4"	560-1910	\$14.74	31	1-1/4"	2-1/4"	560-1200	\$9.26	51	3/4"	1-1/2"	560-0670	\$6.84
12	1-5/8"	2-3/4"	560-1890	\$14.50	32	1-1/4"	2-1/4"	560-1160	\$9.18	52	3/4"	1-1/2"	560-0635	\$6.86
13	1-5/8"	2-3/4"	560-1850	\$14.16	33	1-1/4"	2-1/4"	560-1130	\$9.02	53	3/4"	1-1/2"	560-0595	\$6.86
14	1-5/8"	2-3/4"	560-1820	\$14.00	34	1-1/4"	2-1/4"	560-1110	\$9.02	54	3/4"	1-1/2"	560-0550	\$6.86
15	1-5/8"	2-3/4"	560-1800	\$14.00	35	1-1/4"	2-1/4"	560-1100	\$8.70	55	3/4"	1-1/2"	560-0520	\$6.86
16	1-5/8"	2-3/4"	560-1770	\$13.68	36	1-1/4"	2-1/4"	560-1065	\$8.62	56	3/4"	1-1/2"	560-0465	\$7.02
17	1-5/8"	2-3/4"	560-1730	\$13.30	37	1-1/4"	2-1/4"	560-1040	\$8.62	57	3/4"	1-1/2"	560-0430	\$7.34
18	1-5/8"	2-3/4"	560-1695	\$12.66	38	1-1/4"	2-1/4"	560-1015	\$8.62	58	3/4"	1-1/2"	560-0420	\$7.34
19	1-5/8"	2-3/4"	560-1660	\$12.66	39	1-1/4"	2-1/4"	560-0995	\$8.30	59	3/4"	1-1/2"	560-0410	\$7.34
20	1-3/8"	2-1/2"	560-1610	\$12.16	40	1"	2"	560-0980	\$8.14	60	3/4"	1-1/2"	560-0400	\$7.34

SOLID CARBIDE DRILLS

JOBBER LENGTH • NUMBER SIZES - 3 FLUTE 150° POINT
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1	1-3/4"	3"	554-2280	\$23.10	21	1-3/8"	2-1/2"	554-1590	\$13.74	41	1"	2"	554-0960	\$9.02
2	1-3/4"	3"	554-2210	\$20.66	22	1-3/8"	2-1/2"	554-1570	\$13.47	42	1"	2"	554-0935	\$8.91
3	1-3/4"	3"	554-2130	\$19.83	23	1-3/8"	2-1/2"	554-1540	\$12.93	43	1"	2"	554-0890	\$8.73
4	1-3/4"	3"	554-2090	\$18.92	24	1-3/8"	2-1/2"	554-1520	\$12.67	44	1"	2"	554-0860	\$8.73
5	1-3/4"	3"	554-2055	\$18.92	25	1-3/8"	2-1/2"	554-1495	\$12.66	45	7/8"	1-3/4"	554-0820	\$8.37
6	1-3/4"	3"	554-2040	\$18.67	26	1-3/8"	2-1/2"	554-1470	\$12.66	46	7/8"	1-3/4"	554-0810	\$8.19
7	1-3/4"	3"	554-2010	\$18.02	27	1-3/8"	2-1/2"	554-1440	\$11.82	47	7/8"	1-3/4"	554-0785	\$8.19
8	1-3/4"	3"	554-1990	\$18.02	28	1-3/8"	2-1/2"	554-1405	\$11.82	48	7/8"	1-3/4"	554-0760	\$8.19
9	1-3/4"	3"	554-1960	\$18.02	29	1-3/8"	2-1/2"	554-1360	\$11.82	49	7/8"	1-3/4"	554-0730	\$7.94
10	1-5/8"	2-3/4"	554-1935	\$16.93	30	1-1/4"	2-1/4"	554-1285	\$10.91	50	7/8"	1-3/4"	554-0700	\$7.80
11	1-5/8"	2-3/4"	554-1910	\$16.66	31	1-1/4"	2-1/4"	554-1200	\$10.47	51	3/4"	1-1/2"	554-0670	\$7.73
12	1-5/8"	2-3/4"	554-1890	\$16.39	32	1-1/4"	2-1/4"	554-1160	\$10.38	52	3/4"	1-1/2"	554-0635	\$7.73
13	1-5/8"	2-3/4"	554-1850	\$16.00	33	1-1/4"	2-1/4"	554-1130	\$10.20	53	3/4"	1-1/2"	554-0595	\$7.73
14	1-5/8"	2-3/4"	554-1820	\$15.82	34	1-1/4"	2-1/4"	554-1110	\$10.20	54	3/4"	1-1/2"	554-0550	\$7.73
15	1-5/8"	2-3/4"	554-1800	\$15.82	35	1-1/4"	2-1/4"	554-1100	\$9.83	55	3/4"	1-1/2"	554-0520	\$7.76
16	1-5/8"	2-3/4"	554-1770	\$15.46	36	1-1/4"	2-1/4"	554-1065	\$9.74	56	3/4"	1-1/2"	554-0465	\$7.94
17	1-5/8"	2-3/4"	554-1730	\$15.03	37	1-1/4"	2-1/4"	554-1040	\$9.74	57	3/4"	1-1/2"	554-0430	\$8.30
18	1-5/8"	2-3/4"	554-1695	\$14.31	38	1-1/4"	2-1/4"	554-1015	\$9.74	58	3/4"	1-1/2"	554-0420	\$8.30
19	1-5/8"	2-3/4"	554-1660	\$14.31	39	1-1/4"	2-1/4"	554-0995	\$9.38	59	3/4"	1-1/2"	554-0410	\$8.30
20	1-3/8"	2-1/2"	554-1610	\$13.74	40	1"	2"	554-0980	\$9.20	60	3/4"	1-1/2"	554-0400	\$8.30

SOLID CARBIDE DRILLS

SCREW MACHINE • 135° SPLIT POINT - FRACTIONAL SIZES
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1/8"	7/8"	1-7/8"	565-1250	\$8.30
9/64"	15/16"	1-15/16"	565-1406	\$9.26
5/32"	1"	2-1/16"	565-1562	\$9.66
11/64"	1-1/16"	2-1/8"	565-1719	\$12.08
3/16"	1-1/8"	2-3/16"	565-1875	\$12.16
13/64"	1-3/16"	2-1/4"	565-2031	\$14.32
7/32"	1-1/4"	2-3/8"	565-2188	\$14.74
15/64"	1-5/16"	2-7/16"	565-2344	\$18.36
1/4"	1-3/8"	2-1/2"	565-2500	\$17.00
17/64"	1-7/16"	2-5/8"	565-2658	\$23.82
9/32"	1-1/2"	2-11/16"	565-2812	\$24.24
19/64"	1-9/16"	2-3/4"	565-2969	\$25.54
5/16"	1-5/8"	2-13/16"	565-3125	\$24.80
21/64"	1-11/16"	2-15/16"	565-3281	\$28.42
11/32"	1-11/16"	3"	565-3438	\$31.56
23/64"	1-3/4"	3-1/16"	565-3594	\$37.20
3/8"	1-13/16"	3-1/8"	565-3750	\$37.20
25/64"	1-7/8"	3-1/4"	565-3906	\$44.28
13/32"	1-15/16"	3-5/16"	565-4062	\$48.08
27/64"	2"	3-3/8"	565-4219	\$49.52
7/16"	2-1/16"	3-7/16"	565-4375	\$54.26
29/64"	2-1/8"	3-9/16"	565-4531	\$66.62
15/32"	2-1/8"	3-5/8"	565-4688	\$68.36
31/64"	2-3/16"	3-11/16"	565-4844	\$68.36
1/2"	2-1/4"	3-3/4"	565-5000	\$62.80
9/16"	2-1/2"	4"	565-5625	\$124.54
5/8"	2-3/4"	4-1/4"	565-6250	\$162.22
11/16"	2-7/8"	4-5/8"	565-6875	\$184.98
3/4"	3-1/8"	5"	565-7500	\$215.98

SOLID CARBIDE DRILLS

SCREW MACHINE • 135° SPLIT POINT - LETTER SIZES
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
A	1-5/16"	2-7/16"	570-2340	\$19.64
B	1-3/8"	2-1/2"	570-2380	\$20.60
C	1-3/8"	2-1/2"	570-2420	\$20.76
D	1-3/8"	2-1/2"	570-2460	\$20.76
E	1-3/8"	2-1/2"	570-2500	\$19.48
F	1-7/16"	2-5/8"	570-2570	\$24.24
G	1-7/16"	2-5/8"	570-2610	\$25.44
H	1-1/2"	2-11/16"	570-2660	\$26.08
I	1-1/2"	2-11/16"	570-2720	\$26.08
J	1-1/2"	2-11/16"	570-2770	\$26.50
K	1-1/2"	2-11/16"	570-2810	\$29.40
L	1-9/16"	2-3/4"	570-2900	\$30.42
M	1-9/16"	2-3/4"	570-2950	\$31.08
N	1-5/8"	2-13/16"	570-3020	\$31.56
O	1-11/16"	2-15/16"	570-3160	\$32.52
P	1-11/16"	2-15/16"	570-3230	\$32.84
Q	1-11/16"	3"	570-3320	\$34.06
R	1-11/16"	3"	570-3390	\$35.02
S	1-3/4"	3-1/16"	570-3480	\$36.86
T	1-3/4"	3-1/16"	570-3580	\$40.58
U	1-13/16"	3-1/8"	570-3680	\$42.34
V	1-7/8"	3-1/4"	570-3770	\$42.98
W	1-15/16"	3-1/4"	570-3860	\$44.04
X	1-15/16"	3-5/16"	570-3970	\$47.90
Y	1-15/16"	3-5/16"	570-4040	\$52.64
Z	2"	3-3/8"	570-4130	\$54.10

SOLID CARBIDE DRILLS

SCREW MACHINE • 135° SPLIT POINT - NUMBER SIZES
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE	CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1	1-5/16"	2-7/16"	575-2280	\$18.84	21	1-1/16"	2-1/8"	575-1590	\$12.32	41	13/16"	1-13/16"	575-0960	\$7.72
2	1-5/16"	2-7/16"	575-2210	\$18.44	22	1"	2-1/16"	575-1570	\$11.92	42	3/4"	1-3/4"	575-0935	\$7.66
3	1-1/4"	2-3/8"	575-2230	\$17.84	23	1"	2-1/16"	575-1540	\$11.92	43	3/4"	1-3/4"	575-0890	\$7.50
4	1-1/4"	2-3/8"	575-2090	\$18.92	24	1"	2-1/16"	575-1520	\$11.60	44	3/4"	1-3/4"	575-0860	\$7.40
5	1-1/4"	2-3/8"	575-2055	\$17.00	25	1"	2-1/16"	575-1495	\$11.20	45	3/4"	1-3/4"	575-0820	\$7.34
6	1-1/4"	2-3/8"	575-2040	\$17.00	26	1"	2-1/16"	575-1470	\$11.04	46	3/4"	1-3/4"	575-0810	\$7.08
7	1-3/16"	2-1/4"	575-2010	\$16.26	27	1"	2-1/16"	575-1440	\$10.88	47	3/4"	1-3/4"	575-0785	\$7.08
8	1-3/16"	2-1/4"	575-1990	\$15.82	28	15/16"	1-15/16"	575-1405	\$10.78	48	11/16"	1-11/16"	575-0760	\$7.08
9	1-3/16"	2-1/4"	575-1960	\$15.02	29	15/16"	1-15/16"	575-1360	\$10.24	49	11/16"	1-11/16"	575-0730	\$6.90
10	1-3/16"	2-1/4"	575-1935	\$15.02	30	15/16"	1-15/16"	575-1285	\$10.14	50	11/16"	1-11/16"	575-0700	\$6.86
11	1-3/16"	2-1/4"	575-1910	\$15.02	31	7/8"	1-7/8"	575-1200	\$9.02	51	11/16"	1-11/16"	575-0670	\$6.76
12	1-3/16"	2-1/4"	575-1890	\$14.26	32	7/8"	1-7/8"	575-1160	\$9.02	52	11/16"	1-11/16"	575-0635	\$6.76
13	1-1/8"	2-3/16"	575-1850	\$14.58	33	7/8"	1-7/8"	575-1130	\$8.86	53	1/2"	1-1/2"	575-0595	\$6.60
14	1-1/8"	2-3/16"	575-1820	\$14.32	34	7/8"	1-7/8"	575-1110	\$8.86	54	1/2"	1-1/2"	575-0550	\$6.60
15	1-1/8"	2-3/16"	575-1800	\$14.26	35	7/8"	1-7/8"	575-1100	\$8.62	55	1/2"	1-1/2"	575-0520	\$6.54
16	1-1/8"	2-3/16"	575-1770	\$14.16	36	13/16"	1-13/16"	575-1065	\$8.46	56	1/2"	1-1/2"	575-0465	\$6.54
17	1-1/8"	2-3/16"	575-1730	\$14.00	37	13/16"	1-13/16"	575-1040	\$8.38	57	1/2"	1-1/2"	575-0430	\$6.54
18	1-1/16"	2-1/8"	575-1695	\$13.68	38	13/16"	1-13/16"	575-1015	\$8.30	58	1/2"	1-1/2"	575-0420	\$6.54
19	1-1/16"	2-1/8"	575-1660	\$13.04	39	13/16"	1-13/16"	575-0995	\$8.14	59	1/2"	1-1/2"	575-0410	\$6.54
20	1-1/16"	2-1/8"	575-1610	\$12.82	40	13/16"	1-13/16"	575-0980	\$8.14	60	1/2"	1-1/2"	575-0400	\$6.54

SOLID CARBIDE DRILLS

STRAIGHT FLUTE • 140° POINT - FRACTIONAL SIZES
UNCOATED



CUTTER DIA	FLUTE LENGTH	O.A. LENGTH	PART#	LIST PRICE
1/16"	5/8"	1-5/8"	580-0625	\$8.16
5/64"	11/16"	1-11/16"	580-0781	\$6.94
3/32"	3/4"	1-3/4"	580-0938	\$7.86
7/64"	13/16"	1-13/16"	580-1094	\$8.62
1/8"	7/8"	1-7/8"	580-1250	\$8.86
9/64"	15/16"	1-15/16"	580-1406	\$10.62
5/32"	1"	2-1/16"	580-1562	\$11.18
11/64"	1-1/16"	2-1/8"	580-1719	\$13.10
3/16"	1-1/8"	2-3/16"	580-1875	\$13.10
13/64"	1-3/16"	2-1/4"	580-2031	\$15.96
7/32"	1-1/4"	2-3/8"	580-2188	\$16.26
15/64"	1-5/16"	2-7/16"	580-2344	\$19.40
1/4"	1-3/8"	2-1/2"	580-2500	\$19.18
17/64"	1-7/16"	2-5/8"	580-2656	\$20.64
9/32"	1-1/2"	2-11/16"	580-2812	\$22.00
19/64"	1-9/16"	2-3/4"	580-2969	\$24.42
5/16"	1-5/8"	2-13/16"	580-3125	\$25.72
21/64"	1-11/16"	2-15/16"	580-3281	\$28.58
11/32"	1-11/16"	3"	580-3438	\$31.58
23/64"	1-3/4"	3-1/16"	580-3594	\$34.50
3/8"	1-13/16"	3-1/8"	580-3750	\$36.74
25/64"	1-7/8"	3-1/4"	580-3906	\$42.50
13/32"	1-15/16"	3-5/16"	580-4062	\$47.28
27/64"	2"	3-3/8"	580-4219	\$51.68
7/16"	2-1/16"	3-7/16"	580-4375	\$56.00
15/32"	2-1/8"	3-5/8"	580-4688	\$65.38
1/2"	2-1/4"	3-3/4"	580-5000	\$69.60

CARBIDE REAMERS

CHUCKING • FRACTIONAL SIZES

UNCOATED



REAMER DIA	FLUTE LENGTH	O.A. LENGTH	DECIMAL EQUIVALENT	PART#	LIST PRICE
1/8"	5/8"	2-1/4"	.1250	600-1250	\$13.08
9/64"	3/4"	2-1/2"	.1406	600-1406	\$17.28
5/32"	3/4"	2-1/2"	.1562	600-1562	\$15.40
11/64"	7/8"	2-3/4"	.1719	600-1719	\$17.50
3/16"	7/8"	2-3/4"	.1875	600-1875	\$17.56
13/64"	1"	3"	.2031	600-2031	\$21.46
7/32"	1"	3"	.2187	600-2187	\$21.58
15/64"	1"	3"	.2344	600-2344	\$23.32
1/4"	1"	3"	.2500	600-2500	\$23.42
17/64"	1-1/8"	3-1/4"	.2656	600-2656	\$28.26
9/32"	1-1/8"	3-1/4"	.2812	600-2812	\$28.34
19/64"	1-1/8"	3-1/4"	.2969	600-2969	\$31.38
5/16"	1-1/8"	3-1/4"	.3125	600-3125	\$31.50
21/64"	1-1/4"	3-1/2"	.3281	600-3281	\$35.08
11/32"	1-1/4"	3-1/2"	.3437	600-3437	\$35.42
23/64"	1-1/4"	3-1/2"	.3594	600-3594	\$37.76
3/8"	1-1/4"	3-1/2"	.3750	600-3750	\$37.78
25/64"	1-1/4"	3-1/2"	.3906	600-3906	\$41.62
13/32"	1-1/4"	3-1/2"	.4062	600-4062	\$43.28
27/64"	1-3/8"	4"	.4219	600-4219	\$44.76
7/16"	1-3/8"	4"	.4375	600-4375	\$49.06
29/64"	1-3/8"	4"	.4531	600-4531	\$54.10
15/32"	1-3/8"	4"	.4687	600-4687	\$54.22
31/64"	1-1/2"	4"	.4844	600-4844	\$58.36
1/2"	1-1/2"	4"	.5000	600-5000	\$61.28

CARBIDE REAMERS

CHUCKING • LETTER SIZES

UNCOATED



REAMER DIA	FLUTE LENGTH	O.A. LENGTH	DECIMAL EQUIVALENT	PART#	LIST PRICE
A	1"	3"	.2340	605-2340	\$25.94
B	1"	3"	.2380	605-2380	\$25.86
C	1"	3"	.2420	605-2420	\$25.70
D	1"	3"	.2460	605-2460	\$25.50
E	1"	3"	.2500	605-2500	\$23.32
F	1-1/8"	3-1/4"	.2570	605-2570	\$31.38
G	1-1/8"	3-1/4"	.2610	605-2610	\$31.30
H	1-1/8"	3-1/4"	.2660	605-2660	\$31.26
I	1-1/8"	3-1/4"	.2720	605-2720	\$31.22
J	1-1/8"	3-1/4"	.2770	605-2770	\$31.16
K	1-1/8"	3-1/4"	.2810	605-2810	\$31.10
L	1-1/8"	3-1/4"	.2900	605-2900	\$30.80
M	1-1/8"	3-1/4"	.2950	605-2950	\$30.84
N	1-1/8"	3-1/4"	.3020	605-3020	\$30.86
O	1-1/8"	3-1/4"	.3160	605-3160	\$34.90
P	1-1/4"	3-1/2"	.3230	605-3230	\$35.00
Q	1-1/4"	3-1/2"	.3320	605-3320	\$35.10
R	1-1/4"	3-1/2"	.3390	605-3390	\$35.32
S	1-1/4"	3-1/2"	.3480	605-3480	\$35.14
T	1-1/4"	3-1/2"	.3580	605-3580	\$38.20
U	1-1/4"	3-1/2"	.3680	605-3680	\$38.24
V	1-1/4"	3-1/2"	.3770	605-3770	\$48.08
W	1-1/4"	3-1/2"	.3860	605-3860	\$48.12
X	1-1/4"	3-1/2"	.3970	605-3970	\$55.60
Y	1-1/4"	3-1/2"	.4040	605-4040	\$57.00
Z	1-1/4"	3-1/2"	.4130	605-4130	\$58.60

CARBIDE REAMERS

CHUCKING • NUMBER SIZES

UNCOATED



REAMER DIA	FLUTE LENGTH	O.A. LENGTH	DECIMAL EQUIV.	PART#	LIST PRICE
1	1"	3"	.2280	610-2280	\$24.20
2	1"	3"	.2210	610-2210	\$22.10
3	1"	3"	.2130	610-2130	\$22.10
4	1"	3"	.2090	610-2090	\$22.10
5	1"	3"	.2055	610-2055	\$22.10
6	1"	3"	.2040	610-2040	\$22.10
7	1"	3"	.2010	610-2010	\$22.10
8	1"	3"	.1990	610-1990	\$22.10
9	1"	3"	.1960	610-1960	\$22.10
10	7/8"	2-3/4"	.1935	610-1935	\$22.10
11	7/8"	2-3/4"	.1910	610-1910	\$22.10
12	7/8"	2-3/4"	.1890	610-1890	\$18.16
13	7/8"	2-3/4"	.1850	610-1850	\$18.16
14	7/8"	2-3/4"	.1820	610-1820	\$18.16
15	7/8"	2-3/4"	.1800	610-1800	\$18.16
16	7/8"	2-3/4"	.1770	610-1770	\$18.16
17	7/8"	2-3/4"	.1730	610-1730	\$18.16
18	7/8"	2-3/4"	.1695	610-1695	\$18.16
19	7/8"	2-3/4"	.1660	610-1660	\$18.16
20	7/8"	2-3/4"	.1610	610-1610	\$18.16
21	3/4"	2-1/2"	.1590	610-1590	\$16.14
22	3/4"	2-1/2"	.1570	610-1570	\$16.14
23	3/4"	2-1/2"	.1540	610-1540	\$16.14
24	3/4"	2-1/2"	.1520	610-1520	\$16.14
25	3/4"	2-1/2"	.1495	610-1495	\$16.14
26	3/4"	2-1/2"	.1470	610-1470	\$16.14
27	3/4"	2-1/2"	.1440	610-1440	\$15.50
28	3/4"	2-1/2"	.1405	610-1405	\$15.50
29	3/4"	2-1/2"	.1360	610-1360	\$15.50
30	5/8"	2-1/4"	.1285	610-1285	\$14.46

REAMER DIA	FLUTE LENGTH	O.A. LENGTH	DECIMAL EQUIV.	PART#	LIST PRICE
31	5/8"	2-1/4"	.1200	610-1200	\$14.46
32	5/8"	2-1/4"	.1160	610-1160	\$14.46
33	5/8"	2-1/4"	.1130	610-1130	\$12.94
34	5/8"	2-1/4"	.1110	610-1110	\$12.94
35	5/8"	2-1/4"	.1100	610-1100	\$12.94
36	5/8"	2-1/4"	.1065	610-1065	\$12.94
37	5/8"	2-1/4"	.1040	610-1040	\$12.94
38	5/8"	2-1/4"	.1015	610-1015	\$12.94
39	5/8"	2-1/4"	.0995	610-0995	\$12.94
40	5/8"	2-1/4"	.0980	610-0980	\$12.94
41	5/8"	2-1/4"	.0960	610-0960	\$12.94
42	1/2"	2"	.0935	610-0935	\$12.94
43	1/2"	2"	.0890	610-0890	\$12.94
44	1/2"	2"	.0860	610-0860	\$12.94
45	1/2"	2"	.0820	610-0820	\$12.94
46	1/2"	2"	.0810	610-0810	\$12.94
47	1/2"	1-3/4"	.0785	610-0785	\$12.94
48	1/2"	1-3/4"	.0760	610-0760	\$12.94
49	1/2"	1-3/4"	.0730	610-0730	\$12.94
50	1/2"	1-3/4"	.0700	610-0700	\$12.94
51	1/2"	1-3/4"	.0670	610-0670	\$12.94
52	3/8"	1-1/2"	.0635	610-0635	\$12.94
53	3/8"	1-1/2"	.0595	610-0595	\$12.94
54	3/8"	1-1/2"	.0550	610-0550	\$12.94
55	3/8"	1-1/2"	.0520	610-0520	\$12.94
56	3/8"	1-1/2"	.0465	610-0465	\$12.94
57	3/8"	1-1/2"	.0430	610-0430	\$12.94
58	3/8"	1-1/2"	.0420	610-0420	\$12.94
59	3/8"	1-1/2"	.0410	610-0410	\$12.94
60	3/8"	1-1/2"	.0400	610-0400	\$12.94

METRIC SIZES AVAILABLE