



PRECISION REGROUND, SPECIAL AND NEW
SOLID CARBIDE AND HIGH SPEED TOOLS

PRICE GUIDE

QUALITY SERVICE FOR OVER 35 YEARS!!

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TABLE OF CONTENTS

CARBIDE END MILLS

Standard 2fl Carbide End Mills.....	3
Standard 3fl Carbide End Mills.....	4
Standard 4fl Carbide End Mills.....	5
Standard 2fl Carbide Ball Mills.....	6
Standard 3fl Carbide Ball Mills.....	7
Standard 4fl Carbide Ball Mills.....	8
6fl Square End Mills.....	9
2fl & 4fl Corner Radius Mills.....	10
2fl & 4fl Special Length Carbide End Mills.....	11
2fl & 4fl Special Length Carbide Ball Mills.....	12
2fl & 4fl Double End End Mills.....	13
2fl & 4fl Double End Ball Mills.....	14

CARBIDE BURS

SA.....	15
SB.....	16
SC.....	17
SD.....	18
SE.....	19
SF.....	20
SG.....	21
SH.....	21
SJ.....	22
SK.....	22
SL.....	22
SM.....	23
SN.....	23

All Flute Lengths & Overall Lengths have a tolerance of +.010 -.010

All Shank Diameters have a tolerance of +.0000 -.0005

All Diameters have a tolerance of +.0000 -.0025

TiN & TiCN are also available for all tooling!!!

TWO FLUTE SQUARE END MILLS - STANDARD LENGTH



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AITiN	
				Part No.	Cost	Part No.	Cost
1/32"	5/64"	1.5"	1/8"	20001	\$10.36	29001	\$12.74
3/64"	7/64"	1.5"	1/8"	20011	\$10.36	29011	\$12.74
1/16"	3/16"	1.5"	1/8"	20021	\$8.28	29021	\$10.38
5/64"	3/16"	1.5"	1/8"	20031	\$8.28	29031	\$10.66
3/32"	9/32"	1.5"	1/8"	20041	\$8.28	29041	\$10.66
7/64"	3/8"	1.5"	1/8"	20051	\$8.28	29051	\$10.66
1/8"	3/8"	1.5"	1/8"	20061	\$8.28	29061	\$10.66
1/8"	1/2"	1.5"	1/8"	20071	\$8.28	29071	\$10.66
9/64"	1/2"	2"	3/16"	20081	\$12.78	29081	\$15.82
5/32"	1/2"	2"	3/16"	20091	\$12.78	29091	\$15.82
11/64"	5/8"	2"	3/16"	20101	\$12.78	29101	\$15.82
3/16"	5/8"	2"	3/16"	20111	\$12.12	29111	\$15.16
13/64"	5/8"	2.5"	1/4"	20121	\$15.98	29121	\$19.08
7/32"	5/8"	2.5"	1/4"	20131	\$15.98	29131	\$19.08
15/64"	3/4"	2.5"	1/4"	20141	\$15.98	29141	\$19.08
1/4"	3/4"	2.5"	1/4"	20151	\$15.42	29151	\$21.62
17/64"	3/4"	2.5"	5/16"	20161	\$24.00	29161	\$33.24
9/32"	3/4"	2.5"	5/16"	20171	\$24.00	29171	\$33.24
19/64"	13/16"	2.5"	5/16"	20181	\$24.00	29181	\$33.24
5/16"	13/16"	2.5"	5/16"	20191	\$19.38	29191	\$28.62
21/64"	1"	2.5"	3/8"	20201	\$26.98	29201	\$36.22
11/32"	1"	2.5"	3/8"	20211	\$26.98	29211	\$36.22
23/64"	1"	2.5"	3/8"	20221	\$26.98	29221	\$36.22
3/8"	1"	2.5"	3/8"	20231	\$23.68	29231	\$32.92
25/64"	1"	3"	7/16"	20241	\$33.04	29241	\$44.48
13/32"	1"	3"	7/16"	20251	\$33.04	29251	\$44.48
27/64"	1"	3"	7/16"	20261	\$33.04	29261	\$44.48
7/16"	1"	3"	7/16"	20271	\$32.48	29271	\$43.92
29/64"	1"	3"	1/2"	20281	\$40.42	29281	\$51.86
15/32"	1"	3"	1/2"	20291	\$40.42	29291	\$51.86
31/64"	1"	3"	1/2"	20301	\$40.42	29301	\$51.86
1/2"	1"	3"	1/2"	20501	\$35.24	29501	\$46.68
9/16"	1.125"	3.5"	9/16"	20511	\$57.82	29511	\$74.36
5/8"	1.25"	3.5"	5/8"	20521	\$77.06	29521	\$93.60
11/16"	1.375"	4"	3/4"	20531	\$111.86	29531	\$134.48
3/4"	1.5"	4"	3/4"	20541	\$99.10	29541	\$118.68
7/8"	1.5"	4"	7/8"	20551	\$109.88	29551	\$138.66
1"	1.5"	4"	1"	20561	\$165.14	29561	\$193.92

THREE FLUTE SQUARE END MILLS - STANDARD LENGTH



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AlTiN	
				Part No.	Cost	Part No.	Cost
1/32"	5/64"	1.5"	1/8"	30001	\$10.36	39001	\$12.74
3/64"	7/64"	1.5"	1/8"	30011	\$10.36	39011	\$12.74
1/16"	3/16"	1.5"	1/8"	30021	\$8.28	39021	\$10.38
5/64"	3/16"	1.5"	1/8"	30031	\$8.28	39031	\$10.66
3/32"	9/32"	1.5"	1/8"	30041	\$8.28	39041	\$10.66
7/64"	3/8"	1.5"	1/8"	30051	\$8.28	39051	\$10.66
1/8"	3/8"	1.5"	1/8"	30061	\$8.28	39061	\$10.66
1/8"	1/2"	1.5"	1/8"	30071	\$8.28	39071	\$10.66
9/64"	1/2"	2"	3/16"	30081	\$12.78	39081	\$15.82
5/32"	1/2"	2"	3/16"	30091	\$12.78	39091	\$15.82
11/64"	5/8"	2"	3/16"	30101	\$12.78	39101	\$15.82
3/16"	5/8"	2"	3/16"	30111	\$12.12	39111	\$15.16
13/64"	5/8"	2.5"	1/4"	30121	\$15.98	39121	\$19.08
7/32"	5/8"	2.5"	1/4"	30131	\$15.98	39131	\$19.08
15/64"	3/4"	2.5"	1/4"	30141	\$15.98	39141	\$19.08
1/4"	3/4"	2.5"	1/4"	30151	\$15.42	39151	\$21.62
17/64"	3/4"	2.5"	5/16"	30161	\$24.00	39161	\$33.24
9/32"	3/4"	2.5"	5/16"	30171	\$24.00	39171	\$33.24
19/64"	13/16"	2.5"	5/16"	30181	\$24.00	39181	\$33.24
5/16"	13/16"	2.5"	5/16"	30191	\$19.38	39191	\$28.62
21/64"	1"	2.5"	3/8"	30201	\$26.98	39201	\$36.22
11/32"	1"	2.5"	3/8"	30211	\$26.98	39211	\$36.22
23/64"	1"	2.5"	3/8"	30221	\$26.98	39221	\$36.22
3/8"	1"	2.5"	3/8"	30231	\$23.68	39231	\$32.92
25/64"	1"	3"	7/16"	30241	\$33.04	39241	\$44.48
13/32"	1"	3"	7/16"	30251	\$33.04	39251	\$44.48
27/64"	1"	3"	7/16"	30261	\$33.04	39261	\$44.48
7/16"	1"	3"	7/16"	30271	\$32.48	39271	\$43.92
29/64"	1"	3"	1/2"	30281	\$40.42	39281	\$51.86
15/32"	1"	3"	1/2"	30291	\$40.42	39291	\$51.86
31/64"	1"	3"	1/2"	30301	\$40.42	39301	\$51.86
1/2"	1"	3"	1/2"	30501	\$35.24	39501	\$46.68
9/16"	1.125"	3.5"	9/16"	30511	\$57.82	39511	\$74.36
5/8"	1.25"	3.5"	5/8"	30521	\$77.06	39521	\$93.60
11/16"	1.375"	4"	3/4"	30531	\$111.86	39531	\$134.48
3/4"	1.5"	4"	3/4"	30541	\$99.10	39541	\$118.68
7/8"	1.5"	4"	7/8"	30551	\$109.88	39551	\$138.66
1"	1.5"	4"	1"	30561	\$165.14	39561	\$193.92

FOUR FLUTE SQUARE END MILLS - STANDARD LENGTH



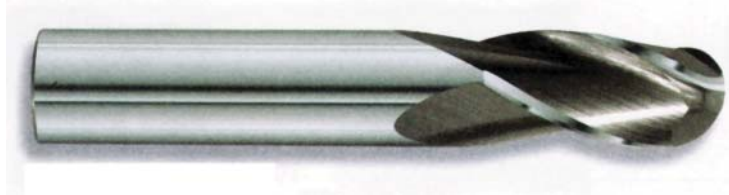
Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AlTiN	
				Part No.	Cost	Part No.	Cost
1/32"	5/64"	1.5"	1/8"	40001	\$10.36	49001	\$12.74
3/64"	7/64"	1.5"	1/8"	40011	\$10.36	49011	\$12.74
1/16"	3/16"	1.5"	1/8"	40021	\$8.28	49021	\$10.38
5/64"	3/16"	1.5"	1/8"	40031	\$8.28	49031	\$10.66
3/32"	9/32"	1.5"	1/8"	40041	\$8.28	49041	\$10.66
7/64"	3/8"	1.5"	1/8"	40051	\$8.28	49051	\$10.66
1/8"	3/8"	1.5"	1/8"	40061	\$8.28	49061	\$10.66
1/8"	1/2"	1.5"	1/8"	40071	\$8.28	49071	\$10.66
9/64"	1/2"	2"	3/16"	40081	\$12.78	49081	\$15.82
5/32"	1/2"	2"	3/16"	40091	\$12.78	49091	\$15.82
11/64"	5/8"	2"	3/16"	40101	\$12.78	49101	\$15.82
3/16"	5/8"	2"	3/16"	40111	\$12.12	49111	\$15.16
13/64"	5/8"	2.5"	1/4"	40121	\$15.98	49121	\$19.08
7/32"	5/8"	2.5"	1/4"	40131	\$15.98	49131	\$19.08
15/64"	3/4"	2.5"	1/4"	40141	\$15.98	49141	\$19.08
1/4"	3/4"	2.5"	1/4"	40151	\$15.42	49151	\$21.62
17/64"	3/4"	2.5"	5/16"	40161	\$24.00	49161	\$33.24
9/32"	3/4"	2.5"	5/16"	40171	\$24.00	49171	\$33.24
19/64"	13/16"	2.5"	5/16"	40181	\$24.00	49181	\$33.24
5/16"	13/16"	2.5"	5/16"	40191	\$19.38	49191	\$28.62
21/64"	1"	2.5"	3/8"	40201	\$26.98	49201	\$36.22
11/32"	1"	2.5"	3/8"	40211	\$26.98	49211	\$36.22
23/64"	1"	2.5"	3/8"	40221	\$26.98	49221	\$36.22
3/8"	1"	2.5"	3/8"	40231	\$23.68	49231	\$32.92
25/64"	1"	3"	7/16"	40241	\$33.04	49241	\$44.48
13/32"	1"	3"	7/16"	40251	\$33.04	49251	\$44.48
27/64"	1"	3"	7/16"	40261	\$33.04	49261	\$44.48
7/16"	1"	3"	7/16"	40271	\$32.48	49271	\$43.92
29/64"	1"	3"	1/2"	40281	\$40.42	49281	\$51.86
15/32"	1"	3"	1/2"	40291	\$40.42	49291	\$51.86
31/64"	1"	3"	1/2"	40301	\$40.42	49301	\$51.86
1/2"	1"	3"	1/2"	40501	\$35.24	49501	\$46.68
9/16"	1.125"	3.5"	9/16"	40511	\$57.82	49511	\$74.36
5/8"	1.25"	3.5"	5/8"	40521	\$77.06	49521	\$93.60
11/16"	1.375"	4"	3/4"	40531	\$111.86	49531	\$134.48
3/4"	1.5"	4"	3/4"	40541	\$99.10	49541	\$118.68
7/8"	1.5"	4"	7/8"	40551	\$109.88	49551	\$138.66
1"	1.5"	4"	1"	40561	\$165.14	49561	\$193.92

TWO FLUTE BALL MILLS - STANDARD LENGTH



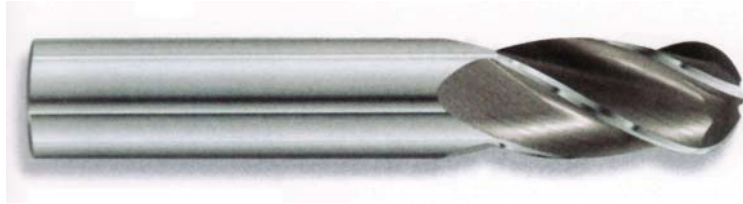
Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AlTiN	
				Part No.	Cost	Part No.	Cost
1/32"	5/64"	1.5"	1/8"	20002	\$12.54	29002	\$14.92
3/64"	7/64"	1.5"	1/8"	20012	\$12.54	29012	\$14.92
1/16"	3/16"	1.5"	1/8"	20022	\$10.36	29022	\$12.76
5/64"	3/16"	1.5"	1/8"	20032	\$10.36	29032	\$12.76
3/32"	9/32"	1.5"	1/8"	20042	\$10.36	29042	\$12.76
7/64"	3/8"	1.5"	1/8"	20052	\$10.36	29052	\$12.76
1/8"	3/8"	1.5"	1/8"	20062	\$10.36	29062	\$12.76
1/8"	1/2"	1.5"	1/8"	20072	\$10.36	29072	\$12.76
9/64"	1/2"	2"	3/16"	20082	\$15.20	29082	\$18.24
5/32"	1/2"	2"	3/16"	20092	\$15.20	29092	\$18.24
11/64"	5/8"	2"	3/16"	20102	\$15.20	29102	\$18.24
3/16"	5/8"	2"	3/16"	20112	\$14.54	29112	\$17.58
13/64"	5/8"	2.5"	1/4"	20122	\$19.16	29122	\$25.36
7/32"	5/8"	2.5"	1/4"	20132	\$19.16	29132	\$25.36
15/64"	3/4"	2.5"	1/4"	20142	\$19.16	29142	\$25.36
1/4"	3/4"	2.5"	1/4"	20152	\$18.62	29152	\$24.82
17/64"	3/4"	2.5"	5/16"	20162	\$25.88	29162	\$35.12
9/32"	3/4"	2.5"	5/16"	20172	\$25.88	29172	\$35.12
19/64"	13/16"	2.5"	5/16"	20182	\$25.88	29182	\$35.12
5/16"	13/16"	2.5"	5/16"	20192	\$23.78	29192	\$33.02
21/64"	1"	2.5"	3/8"	20202	\$32.70	29202	\$41.94
11/32"	1"	2.5"	3/8"	20212	\$32.70	29212	\$41.94
23/64"	1"	2.5"	3/8"	20222	\$32.70	29222	\$41.94
3/8"	1"	2.5"	3/8"	20232	\$29.62	29232	\$38.86
25/64"	1"	3"	7/16"	20242	\$39.64	29242	\$51.08
13/32"	1"	3"	7/16"	20252	\$39.64	29252	\$51.08
27/64"	1"	3"	7/16"	20262	\$39.64	29262	\$51.08
7/16"	1"	3"	7/16"	20272	\$41.18	29272	\$52.62
29/64"	1"	3"	1/2"	20282	\$50.42	29282	\$61.86
15/32"	1"	3"	1/2"	20292	\$50.42	29292	\$61.86
31/64"	1"	3"	1/2"	20302	\$50.42	29302	\$61.86
1/2"	1"	3"	1/2"	20502	\$45.14	29502	\$56.58
9/16"	1.125"	3.5"	9/16"	20512	\$64.96	29512	\$81.50
5/8"	1.25"	3.5"	5/8"	20522	\$96.70	29522	\$113.24
11/16"	1.375"	4"	3/4"	20532	\$128.92	29532	\$148.50
3/4"	1.5"	4"	3/4"	20542	\$118.36	29542	\$137.94
7/8"	1.5"	4"	7/8"	20552	\$137.62	29552	\$166.40
1"	1.5"	4"	1"	20562	\$203.66	29562	\$232.44

THREE FLUTE BALL MILLS - STANDARD LENGTH



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AlTiN	
				Part No.	Cost	Part No.	Cost
1/32"	5/64"	1.5"	1/8"	30002	\$12.54	39002	\$14.92
3/64"	7/64"	1.5"	1/8"	30012	\$12.54	39012	\$14.92
1/16"	3/16"	1.5"	1/8"	30022	\$10.36	39022	\$12.76
5/64"	3/16"	1.5"	1/8"	30032	\$10.36	39032	\$12.76
3/32"	9/32"	1.5"	1/8"	30042	\$10.36	39042	\$12.76
7/64"	3/8"	1.5"	1/8"	30052	\$10.36	39052	\$12.76
1/8"	3/8"	1.5"	1/8"	30062	\$10.36	39062	\$12.76
1/8"	1/2"	1.5"	1/8"	30072	\$10.36	39072	\$12.76
9/64"	1/2"	2"	3/16"	30082	\$15.20	39082	\$18.24
5/32"	1/2"	2"	3/16"	30092	\$15.20	39092	\$18.24
11/64"	5/8"	2"	3/16"	30102	\$15.20	39102	\$18.24
3/16"	5/8"	2"	3/16"	30112	\$14.54	39112	\$17.58
13/64"	5/8"	2.5"	1/4"	30122	\$19.16	39122	\$25.36
7/32"	5/8"	2.5"	1/4"	30132	\$19.16	39132	\$25.36
15/64"	3/4"	2.5"	1/4"	30142	\$19.16	39142	\$25.36
1/4"	3/4"	2.5"	1/4"	30152	\$18.62	39152	\$24.82
17/64"	3/4"	2.5"	5/16"	30162	\$25.88	39162	\$35.12
9/32"	3/4"	2.5"	5/16"	30172	\$25.88	39172	\$35.12
19/64"	13/16"	2.5"	5/16"	30182	\$25.88	39182	\$35.12
5/16"	13/16"	2.5"	5/16"	30192	\$23.78	39192	\$33.02
21/64"	1"	2.5"	3/8"	30202	\$32.70	39202	\$41.94
11/32"	1"	2.5"	3/8"	30212	\$32.70	39212	\$41.94
23/64"	1"	2.5"	3/8"	30222	\$32.70	39222	\$41.94
3/8"	1"	2.5"	3/8"	30232	\$29.62	39232	\$38.86
25/64"	1"	3"	7/16"	30242	\$39.64	39242	\$51.08
13/32"	1"	3"	7/16"	30252	\$39.64	39252	\$51.08
27/64"	1"	3"	7/16"	30262	\$39.64	39262	\$51.08
7/16"	1"	3"	7/16"	30272	\$41.18	39272	\$52.62
29/64"	1"	3"	1/2"	30282	\$50.42	39282	\$61.86
15/32"	1"	3"	1/2"	30292	\$50.42	39292	\$61.86
31/64"	1"	3"	1/2"	30302	\$50.42	39302	\$61.86
1/2"	1"	3"	1/2"	30502	\$45.14	39502	\$56.58
9/16"	1.125"	3.5"	9/16"	30512	\$64.96	39512	\$81.50
5/8"	1.25"	3.5"	5/8"	30522	\$96.70	39522	\$113.24
11/16"	1.375"	4"	3/4"	30532	\$128.92	39532	\$148.50
3/4"	1.5"	4"	3/4"	30542	\$118.36	39542	\$137.94
7/8"	1.5"	4"	7/8"	30552	\$137.62	39552	\$166.40
1"	1.5"	4"	1"	30562	\$203.66	39562	\$232.44

FOUR FLUTE BALL MILLS - STANDARD LENGTH



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AITIN	
				Part No.	Cost	Part No.	Cost
1/32"	5/64"	1.5"	1/8"	40002	\$12.54	49002	\$14.92
3/64"	7/64"	1.5"	1/8"	40012	\$12.54	49012	\$14.92
1/16"	3/16"	1.5"	1/8"	40022	\$10.36	49022	\$12.76
5/64"	3/16"	1.5"	1/8"	40032	\$10.36	49032	\$12.76
3/32"	9/32"	1.5"	1/8"	40042	\$10.36	49042	\$12.76
7/64"	3/8"	1.5"	1/8"	40052	\$10.36	49052	\$12.76
1/8"	3/8"	1.5"	1/8"	40062	\$10.36	49062	\$12.76
1/8"	1/2"	1.5"	1/8"	40072	\$10.36	49072	\$12.76
9/64"	1/2"	2"	3/16"	40082	\$15.20	49082	\$18.24
5/32"	1/2"	2"	3/16"	40092	\$15.20	49092	\$18.24
11/64"	5/8"	2"	3/16"	40102	\$15.20	49102	\$18.24
3/16"	5/8"	2"	3/16"	40112	\$14.54	49112	\$17.58
13/64"	5/8"	2.5"	1/4"	40122	\$19.16	49122	\$25.36
7/32"	5/8"	2.5"	1/4"	40132	\$19.16	49132	\$25.36
15/64"	3/4"	2.5"	1/4"	40142	\$19.16	49142	\$25.36
1/4"	3/4"	2.5"	1/4"	40152	\$18.62	49152	\$24.82
17/64"	3/4"	2.5"	5/16"	40162	\$25.88	49162	\$35.12
9/32"	3/4"	2.5"	5/16"	40172	\$25.88	49172	\$35.12
19/64"	13/16"	2.5"	5/16"	40182	\$25.88	49182	\$35.12
5/16"	13/16"	2.5"	5/16"	40192	\$23.78	49192	\$33.02
21/64"	1"	2.5"	3/8"	40202	\$32.70	49202	\$41.94
11/32"	1"	2.5"	3/8"	40212	\$32.70	49212	\$41.94
23/64"	1"	2.5"	3/8"	40222	\$32.70	49222	\$41.94
3/8"	1"	2.5"	3/8"	40232	\$29.62	49232	\$38.86
25/64"	1"	3"	7/16"	40242	\$39.64	49242	\$51.08
13/32"	1"	3"	7/16"	40252	\$39.64	49252	\$51.08
27/64"	1"	3"	7/16"	40262	\$39.64	49262	\$51.08
7/16"	1"	3"	7/16"	40272	\$41.18	49272	\$52.62
29/64"	1"	3"	1/2"	40282	\$50.42	49282	\$61.86
15/32"	1"	3"	1/2"	40292	\$50.42	49292	\$61.86
31/64"	1"	3"	1/2"	40302	\$50.42	49302	\$61.86
1/2"	1"	3"	1/2"	40502	\$45.14	49502	\$56.58
9/16"	1.125"	3.5"	9/16"	40512	\$64.96	49512	\$81.50
5/8"	1.25"	3.5"	5/8"	40522	\$96.70	49522	\$113.24
11/16"	1.375"	4"	3/4"	40532	\$128.92	49532	\$148.50
3/4"	1.5"	4"	3/4"	40542	\$118.36	49542	\$137.94
7/8"	1.5"	4"	7/8"	40552	\$137.62	49552	\$166.40
1"	1.5"	4"	1"	40562	\$203.66	49562	\$232.44

SIX FLUTE SQUARE END MILLS



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating		AlTiN	
				Part No.	Cost	Part No.	Cost
1/4"	3/4"	3"	1/4"	60151	\$37.80	69151	\$44.00
5/16"	13/16"	3"	5/16"	60191	\$53.90	69191	\$63.14
3/8"	1"	3"	3/8"	60231	\$48.34	69231	\$57.58
3/8"	1.5"	6"	3/8"	61231	\$65.92	69331	\$75.16
7/16"	1"	3"	7/16"	60271	\$60.22	69271	\$71.66
1/2"	1"	3"	1/2"	60501	\$69.70	69501	\$81.14
1/2"	1.5"	6"	1/2"	61501	\$94.40	69551	\$105.96
5/8"	1.5"	4"	5/8"	60521	\$144.88	69521	\$161.42
3/4"	1.5"	4"	3/4"	60541	\$180.22	69541	\$199.80

CORNER RADIUS END MILLS

TWO FLUTES



FOUR FLUTES



Radius: 0.015				No Coating			AITIN		
Cutting Diameter	Flute Length	Overall Length	Shank Diameter	Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/8"	1/2"	2"	1/8"	20067	40067	\$10.90	29067	49067	\$13.28
3/16"	5/8"	2"	3/16"	20117	40117	\$14.32	29117	49117	\$17.36
1/4"	3/4"	3"	1/4"	20157	40157	\$17.84	29157	49157	\$24.04
5/16"	13/16"	3"	5/16"	20197	40197	\$23.46	29197	49197	\$32.70
3/8"	1"	3"	3/8"	20237	40237	\$28.62	29237	49237	\$37.86
1/2"	1"	3"	1/2"	20507	40507	\$53.40	29507	49507	\$64.84
5/8"	1.25"	4"	5/8"	20527	40527	\$86.32	29527	49527	\$102.86
3/4"	1.5"	4"	3/4"	20547	40527	\$126.82	29547	49547	\$146.40

Radius: 0.025				No Coating			AITIN		
Cutting Diameter	Flute Length	Overall Length	Shank Diameter	Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/8"	1/2"	2"	1/8"	20068	40068	\$10.90	29068	49068	\$13.28
3/16"	5/8"	2"	3/16"	20118	40118	\$14.32	29118	49118	\$17.36
1/4"	3/4"	3"	1/4"	20158	40158	\$17.84	29158	49158	\$24.04
5/16"	13/16"	3"	5/16"	20198	40198	\$23.46	29198	49198	\$32.70
3/8"	1"	3"	3/8"	20238	40238	\$28.62	29238	49238	\$37.86
1/2"	1"	3"	1/2"	20508	40508	\$53.40	29508	49508	\$64.84
5/8"	1.25"	4"	5/8"	20528	40528	\$86.32	29528	49528	\$102.86
3/4"	1.5"	4"	3/4"	20548	40548	\$126.82	29548	49548	\$146.40

Radius: 0.045				No Coating			AITIN		
Cutting Diameter	Flute Length	Overall Length	Shank Diameter	Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/4"	3/4"	3"	1/4"	20069	40069	\$17.84	29069	49069	\$24.04
5/16"	13/16"	3"	5/16"	20119	40119	\$23.46	29119	49119	\$32.70
3/8"	1"	3"	3/8"	20239	40239	\$28.62	29239	49239	\$37.86
1/2"	1"	3"	1/2"	20509	40509	\$53.40	29509	49509	\$64.84
5/8"	1.25"	4"	5/8"	20529	40529	\$86.32	29529	49529	\$102.86
3/4"	1.5"	4"	3/4"	20549	40549	\$126.82	29549	49549	\$146.40

Radius: 0.060				No Coating			AITIN		
Cutting Diameter	Flute Length	Overall Length	Shank Diameter	Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/2"	1"	3"	1/2"	20500	40500	\$53.40	29500	49500	\$64.84
5/8"	1.25"	4"	5/8"	20520	40520	\$86.32	29520	49520	\$102.86
3/4"	1.5"	4"	3/4"	20540	40540	\$126.82	29540	49540	\$146.40

SPECIAL LENGTH SQUARE END MILLS



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating			AlTiN		
				Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/32"	1/16"	1.5"	1/8"	20003	40003	\$8.50	29003	49003	\$10.88
3/64"	3/32"	1.5"	1/8"	20013	40013	\$8.50	29013	49013	\$10.88
1/16"	1/8"	1.5"	1/8"	20023	40023	\$7.40	29023	49023	\$9.92
3/32"	3/16"	1.5"	1/8"	20033	40033	\$7.40	29033	49033	\$9.92
1/8"	1/4"	1.5"	1/8"	20043	40043	\$7.40	29043	49043	\$9.92
1/8"	5/8"	2"	1/8"	20053	40053	\$13.00	29053	49053	\$15.38
1/8"	3/4"	2"	1/8"	20063	40063	\$13.00	29063	49063	\$15.38
1/8"	1"	3"	1/8"	20073	40073	\$17.08	29073	49073	\$20.12
3/16"	3/8"	2"	3/16"	20083	40083	\$10.24	29083	49083	\$13.28
3/16"	1.125"	3"	3/16"	20093	40093	\$19.28	29093	49093	\$23.98
3/16"	1.25"	4"	3/16"	20103	40103	\$20.72	29103	49103	\$26.18
1/4"	1/2"	2"	1/4"	20113	40113	\$13.32	29113	49113	\$18.02
1/4"	1.125"	3"	1/4"	20123	40123	\$23.02	29123	49123	\$29.22
1/4"	1.5"	4"	1/4"	20153	40153	\$23.02	29153	49153	\$31.50
1/4"	1.5"	6"	1/4"	20163	40163	\$31.06	29163	49163	\$41.34
5/16"	1/2"	2"	5/16"	20173	40173	\$18.22	29173	49173	\$24.90
5/16"	1.125"	3"	5/16"	20183	40183	\$26.44	29183	49183	\$32.64
5/16"	1.625"	4"	5/16"	20193	40193	\$29.94	29193	49193	\$41.80
5/16"	1.5"	6"	5/16"	20213	40213	\$44.48	29213	49213	\$60.60
3/8"	5/8"	2"	3/8"	20223	40223	\$20.94	29223	49223	\$27.62
3/8"	1.125"	3"	3/8"	20233	40233	\$35.28	29233	49233	\$44.52
3/8"	1.75"	4"	3/8"	20253	40253	\$38.54	29253	49253	\$50.40
3/8"	2"	4"	3/8"	20263	40263	\$38.54	29263	49263	\$50.40
3/8"	2"	6"	3/8"	20273	40273	\$47.92	29273	49273	\$64.04
3/8"	3"	6"	3/8"	20283	40283	\$47.92	29283	49283	\$64.04
7/16"	5/8"	3"	7/16"	20293	40293	\$28.42	29293	49293	\$39.86
7/16"	2"	4"	7/16"	20313	40313	\$53.28	29313	49313	\$68.16
7/16"	3"	6"	7/16"	20323	40323	\$62.10	29323	49323	\$82.90
1/2"	5/8"	3"	1/2"	20503	40503	\$30.72	29503	49503	\$42.16
1/2"	1"	4"	1/2"	20513	40513	\$47.68	29513	49513	\$62.56
1/2"	2"	4"	1/2"	20533	40533	\$52.86	29533	49533	\$67.74
1/2"	1.5"	6"	1/2"	20543	40543	\$69.04	29543	49543	\$89.84
1/2"	3"	6"	1/2"	20553	40553	\$82.58	29553	49553	\$103.38
5/8"	3/4"	3"	5/8"	20563	40563	\$69.36	29563	49563	\$82.58
5/8"	2.25"	5"	5/8"	20573	40573	\$109.00	29573	49573	\$129.68
5/8"	3"	6"	5/8"	20583	40583	\$129.90	29583	49583	\$154.42
3/4"	1"	3"	3/4"	20593	40593	\$85.88	29593	49593	\$101.72
3/4"	2.25"	5"	3/4"	20603	40603	\$157.44	29603	49603	\$181.42
3/4"	3"	6"	3/4"	20613	40613	\$193.74	29613	49613	\$222.12
1"	1"	3"	1"	20623	40623	\$148.62	29623	49623	\$171.50
1"	3"	6"	1"	20633	40633	\$270.70	29633	49633	\$307.62
1"	4"	6"	1"	20643	40643	\$292.72	29643	49643	\$329.64

SPECIAL LENGTH BALL MILLS


Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating			AlTiN		
				Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/32"	1/16"	1.5"	1/8"	20004	40004	\$10.04	29004	49004	\$12.42
3/64"	3/32"	1.5"	1/8"	20014	40014	\$10.04	29014	49014	\$12.42
1/16"	1/8"	1.5"	1/8"	20024	40024	\$10.28	29024	49024	\$10.66
3/32"	3/16"	1.5"	1/8"	20034	40034	\$10.28	29034	49034	\$10.66
1/8"	1/4"	1.5"	1/8"	20044	40044	\$10.28	29044	49044	\$10.66
1/8"	5/8"	2"	1/8"	20054	40054	\$16.26	29054	49054	\$18.64
1/8"	3/4"	2"	1/8"	20064	40064	\$16.26	29064	49064	\$18.64
1/8"	1"	3"	1/8"	20074	40074	\$20.04	29074	49074	\$23.08
3/16"	3/8"	2"	3/16"	20084	40084	\$12.00	29084	49084	\$15.04
3/16"	1.125"	3"	3/16"	20094	40094	\$24.12	29094	49094	\$28.82
3/16"	1.25"	4"	3/16"	20104	40104	\$24.98	29104	49104	\$30.44
1/4"	1/2"	2"	1/4"	20114	40114	\$15.64	29114	49114	\$20.34
1/4"	1.125"	3"	1/4"	20124	40124	\$26.98	29124	49124	\$33.18
1/4"	1.5"	4"	1/4"	20154	40154	\$30.28	29154	49154	\$37.56
1/4"	1.5"	6"	1/4"	20164	40164	\$35.02	29164	49164	\$45.30
5/16"	1/2"	2"	5/16"	20174	40174	\$21.48	29174	49174	\$28.16
5/16"	1.125"	3"	5/16"	20184	40184	\$33.04	29184	49184	\$42.28
5/16"	1.625"	4"	5/16"	20194	40194	\$33.04	29194	49194	\$47.10
5/16"	1.5"	6"	5/16"	20214	40214	\$52.30	29214	49214	\$68.42
3/8"	5/8"	2"	3/8"	20224	40224	\$26.44	29224	49224	\$33.12
3/8"	1.125"	3"	3/8"	20234	40234	\$42.28	29234	49234	\$51.52
3/8"	1.75"	4"	3/8"	20254	40254	\$46.24	29254	49254	\$58.10
3/8"	2"	4"	3/8"	20264	40264	\$46.24	29264	49264	\$58.10
3/8"	2"	6"	3/8"	20274	40274	\$52.18	29274	49274	\$68.30
3/8"	3"	6"	3/8"	20284	40284	\$52.18	29284	49284	\$68.30
7/16"	5/8"	3"	7/16"	20294	40294	\$30.84	29294	49294	\$42.28
7/16"	2"	4"	7/16"	20314	40314	\$53.62	29314	49314	\$68.50
7/16"	3"	6"	7/16"	20324	40324	\$75.30	29324	49324	\$96.10
1/2"	5/8"	3"	1/2"	20504	40504	\$40.62	29504	49504	\$52.06
1/2"	1"	4"	1/2"	20514	40514	\$53.96	29514	49514	\$68.84
1/2"	2"	4"	1/2"	20534	40534	\$60.78	29534	49534	\$75.66
1/2"	1.5"	6"	1/2"	20544	40544	\$76.18	29544	49544	\$172.64
1/2"	3"	6"	1/2"	20554	40554	\$95.02	29554	49554	\$115.82
5/8"	3/4"	3"	5/8"	20564	40564	\$84.76	29564	49564	\$97.98
5/8"	2.25"	5"	5/8"	20574	40574	\$125.50	29574	49574	\$146.18
5/8"	3"	6"	5/8"	20584	40584	\$145.54	29584	49584	\$170.06
3/4"	1"	3"	3/4"	20594	40594	\$104.58	29594	49594	\$120.42
3/4"	2.25"	5"	3/4"	20604	40604	\$176.36	29604	49604	\$200.34
3/4"	3"	6"	3/4"	20614	40614	\$217.10	29614	49614	\$245.48
1"	1"	3"	1"	20624	40624	\$187.16	29624	49624	\$209.82
1"	3"	6"	1"	20634	40634	\$318.48	29634	49634	\$355.40
1"	4"	6"	1"	20644	40644	\$340.50	29644	49644	\$377.42

DOUBLE END END MILLS

TWO FLUTES



FOUR FLUTES



Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating			AlTiN		
				Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/32"	3/32"	2"	1/8"	20015	40015	\$14.54	29015	49015	\$18.12
3/64"	1/8"	2"	1/8"	20035	40035	\$14.54	29035	49035	\$18.12
1/16"	3/16"	2"	1/8"	20055	40055	\$14.10	29055	49055	\$17.68
3/32"	3/16"	2"	1/8"	20065	40065	\$11.02	29065	49065	\$14.60
1/8"	3/8"	2"	1/8"	20085	40085	\$14.10	29085	49085	\$17.68
1/8"	3/8"	3"	1/8"	20095	40095	\$14.86	29095	49095	\$20.90
1/8"	3/8"	3"	3/8"	20105	40105	\$39.10	29105	49105	\$52.96
3/16"	3/8"	2"	3/16"	20115	40115	\$15.54	29115	49115	\$20.10
3/16"	1/2"	3"	3/16"	20125	40125	\$22.80	29125	49125	\$29.86
3/16"	1/2"	3"	3/8"	20145	40145	\$39.10	29145	49145	\$52.96
1/4"	1/2"	2.5"	1/4"	20155	40155	\$22.04	29155	49155	\$29.10
1/4"	5/8"	3"	1/4"	20165	40165	\$22.56	29165	49165	\$35.28
1/4"	1/2"	3"	3/8"	20175	40175	\$39.10	29175	49175	\$52.96
5/16"	1/2"	2.5"	5/16"	20185	40185	\$27.54	29185	49185	\$41.40
5/16"	5/8"	3"	5/16"	20195	40195	\$27.54	29195	49195	\$41.40
5/16"	5/8"	3"	3/8"	20205	40205	\$44.82	29205	49205	\$58.68
3/8"	1/2"	3"	3/8"	20215	40215	\$29.18	29215	49215	\$43.04
3/8"	3/4"	3"	3/8"	20225	40225	\$34.36	29225	49225	\$48.22
7/16"	1/2"	3"	7/16"	20235	40235	\$35.80	29235	49235	\$52.96
7/16"	1"	4"	7/16"	20245	40245	\$49.76	29245	49245	\$72.08
1/2"	5/8"	3"	1/2"	20505	40505	\$49.66	29505	49255	\$66.82
1/2"	1"	4"	1/2"	20515	40515	\$55.82	29515	49265	\$78.14
5/8"	3/4"	4"	5/8"	20525	40525	\$86.96	29525	49275	\$111.78
5/8"	1.25"	6"	5/8"	20535	40535	\$139.60	29535	49285	\$176.38
3/4"	1.5"	6"	3/4"	20545	40545	\$195.84	29545	49295	\$238.42

DOUBLE END BALL MILLS

TWO FLUTES



FOUR FLUTES

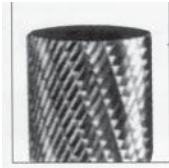


Cutting Diameter	Flute Length	Overall Length	Shank Diameter	No Coating			AlTiN		
				Part No. 2 FL	Part No. 4 FL	Cost	Part No. 2 FL	Part No. 4 FL	Cost
1/32"	3/32"	2"	1/8"	20016	40016	\$17.62	29016	49016	\$21.20
3/64"	1/8"	2"	1/8"	20036	40036	\$17.62	29036	49036	\$21.20
1/16"	3/16"	2"	1/8"	20056	40056	\$17.18	29056	49056	\$20.76
3/32"	3/16"	2"	1/8"	20066	40066	\$15.86	29066	49066	\$19.44
1/8"	3/8"	2"	1/8"	20086	40086	\$17.18	29086	49086	\$20.76
1/8"	3/8"	3"	1/8"	20096	40096	\$17.92	29096	49096	\$23.96
1/8"	3/8"	3"	3/8"	20106	40106	\$45.14	29106	49106	\$59.00
3/16"	3/8"	2"	3/16"	20116	40116	\$20.04	29116	49116	\$24.60
3/16"	1/2"	3"	3/16"	20126	40126	\$20.56	29126	49126	\$27.62
3/16"	1/2"	3"	3/8"	20146	40146	\$45.14	29146	49146	\$59.00
1/4"	1/2"	2.5"	1/4"	20156	40156	\$25.98	29156	49156	\$33.04
1/4"	5/8"	3"	1/4"	20166	40166	\$25.98	29166	49166	\$35.28
1/4"	1/2"	3"	3/8"	20176	40176	\$45.14	29176	49176	\$59.00
5/16"	1/2"	2.5"	5/16"	20186	40186	\$32.36	29186	49186	\$46.22
5/16"	5/8"	3"	5/16"	20196	40196	\$32.36	29196	49196	\$46.22
5/16"	5/8"	3"	3/8"	20206	40206	\$49.76	29206	49206	\$63.62
3/8"	1/2"	3"	3/8"	20216	40216	\$38.54	29216	49216	\$52.40
3/8"	3/4"	3"	3/8"	20226	40226	\$39.76	29226	49226	\$53.62
7/16"	1/2"	3"	7/16"	20236	40236	\$42.94	29236	49236	\$60.10
7/16"	1"	4"	7/16"	20246	40246	\$57.14	29246	49246	\$79.46
1/2"	5/8"	3"	1/2"	20506	40506	\$54.94	29506	49506	\$72.10
1/2"	1"	4"	1/2"	20516	40516	\$63.20	29516	49516	\$85.52
5/8"	3/4"	4"	5/8"	20526	40526	\$99.10	29526	49526	\$123.92
5/8"	1.25"	6"	5/8"	20536	40536	\$163.14	29536	49536	\$199.92
3/4"	1.5"	6"	3/4"	20546	40546	\$225.26	29546	49546	\$267.84

Sizes larger than 1/4" are made with solid carbide heads brazed to heat treated steel shanks.

3/8" Shanks are available where noted for an additional charge of \$3.50

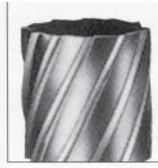
STYLES OF FLUTING FOR CARBIDE BURS



Double Cut:
Ideal for heavy stock removal and quality finish.



Single Cut:
General purpose. Ideal for most materials.



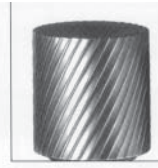
Nonferrous:
Ideal for aluminum and plastics. Add 10%



Chip Breaker:
Reduces chip size. Ideal for most steels.



Diamond Cut:
Provides excellent finish for tough alloys. Add 20%



Course Cut:
Ideal for softer ferrous metals. Add 10%



FineCut:
For use on materials that require fine finish. Add 10%

Cylindrical - SA



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SA-41	1/16"	1/4"	1/8"	10000	10005	\$7.98
SA-41L2	1/16"	1/4"	1/8"	10010	10015	\$11.01
SA-41L3	1/16"	1/4"	1/8"	10020	10025	\$12.46
SA-61	1/16"	1/4"	3/32"	10030	10035	\$9.12
SA-63	3/32"	3/8"	3/32"	10040	10045	\$9.12
SA-42	3/32"	7/16"	1/8"	10050	10055	\$7.98
SA-42L2	3/32"	7/16"	1/8"	10060	10065	\$11.01
SA-43L3	3/32"	7/16"	1/8"	10070	10075	\$12.46
SA-11	1/8"	1/2"	1/4"	10080	10085	\$13.61
SA-43	1/8"	9/16"	1/8"	10090	10095	\$7.98
SA-43L2	1/8"	9/16"	1/8"	10100	10105	\$11.01
SA-43L3	1/8"	9/16"	1/8"	10110	10115	\$12.46
SA-12	1/8"	5/8"	1/4"	10120	10125	\$13.61
SA-52	5/32"	1/2"	1/8"	10130	10135	\$19.16
SA-13	5/32"	5/8"	1/4"	10140	10145	\$13.61
SA-81	3/16"	5/8"	3/16"	10150	10155	\$14.27
SA-53	3/16"	1/2"	1/8"	10160	10165	\$19.16
SA-14	3/16"	5/8"	1/4"	10170	10175	\$13.61
SA-51	1/4"	1/2"	1/8"	10180	10185	\$13.06
SA-1	1/4"	5/8"	1/4"	10190	10195	\$13.61
SA-1L6	1/4"	1/2"	1/4"	10200	10205	\$18.98
SA-1 NF	1/4"	3/4"	1/4"	10210	10215	\$18.50
SA-2	5/16"	3/4"	1/4"	10220	10225	\$17.78
SA-3	3/8"	3/4"	1/4"	10230	10235	\$19.16
SA-3L6	3/8"	3/4"	1/4"	10240	10245	\$26.80
SA-3 NF	3/8"	3/4"	1/4"	10250	10255	\$27.70
SA-4	7/16"	1"	1/4"	10260	10265	\$27.70
SA-5	1/2"	1"	1/4"	10270	10275	\$29.86
SA-5L6	1/2"	1"	1/4"	10280	10285	\$41.78
SA-5 NF	1/2"	1"	1/4"	10290	10295	\$40.57
SA-6*	5/8"	1"	1/4"	10300	10305	\$37.61
SA-15*	3/4"	1/2"	1/4"	10310	10315	\$50.90
SA-16*	3/4"	3/4"	1/4"	10320	10325	\$56.00
SA-7*	3/4"	1"	1/4"	10330	10335	\$56.00
SA-7 NF	3/4"	1"	1/4"	10340	10345	\$68.33
SA-8*	7/8"	1"	1/4"	10350	10355	\$70.44
SA-9*	1"	1"	1/4"	10360	10365	\$78.24

*3/8" Shanks Optional

CYLINDRICAL END CUT - SB



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SB-41	1/16"	1/4"	1/8"	10500	10505	\$7.98
SB-41L2	1/16"	1/4"	1/8"	10510	10515	\$11.01
SB-41L3	1/16"	1/4"	1/8"	10520	10525	\$12.46
SB-42	3/32"	7/16"	1/8"	10530	10535	\$7.98
SB-41L2	3/32"	7/16"	1/8"	10540	10545	\$11.01
SB-41L3	3/32"	7/16"	1/8"	10550	10555	\$12.46
SB-ECO	1/8"	-	1/8"	10560	10565	\$7.98
SB-11	1/8"	1/2"	1/4"	10570	10575	\$14.76
SB-12	1/8"	5/8"	1/4"	10580	10585	\$14.76
SB-43	1/8"	9/16"	1/8"	10590	10595	\$7.98
SB-43L2	1/8"	9/16"	1/8"	10600	10605	\$11.01
SB-43L3	1/8"	9/16"	1/8"	10610	10615	\$12.46
SB-14	3/16"	5/8"	1/4"	10620	10625	\$14.76
SB-51	1/4"	3/16"	1/8"	10630	10635	\$13.06
SB-1	1/4"	5/8"	1/4"	10640	10645	\$14.76
SB-1L	1/4"	1"	1/4"	10650	10655	\$21.83
SB-1 NF	1/4"	3/4"	1/4"	10660	10665	\$20.36
SB-2	5/16"	3/4"	1/4"	10670	10675	\$19.59
SB-3	3/8"	3/4"	1/4"	10680	10685	\$21.04
SB-3 NF	3/8"	3/4"	1/4"	10690	10695	\$30.47
SB-4	7/16"	1"	1/4"	10700	10705	\$30.61
SB-5	1/2"	1"	1/4"	10710	10715	\$32.83
SB-5 NF	1/2"	1"	1/4"	10720	10725	\$44.63
SB-6*	5/8"	1"	1/4"	10730	10735	\$41.30
SB-15*	3/4"	1/2"	1/4"	10740	10745	\$56.00
SB-16*	3/4"	3/4"	1/4"	10750	10755	\$61.61
SB-7*	3/4"	1"	1/4"	10760	10765	\$61.61
SB-7 NF*	3/4"	1"	1/4"	10770	10775	\$75.16
SB-8*	7/8"	1"	1/4"	10780	10785	\$77.58
SB-9*	1"	1"	1/4"	10790	10795	\$86.16

**3/8" Shanks Optional*

CYLINDRICAL BALL NOSE - SC



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SC-61	3/32"	3/8"	3/32"	11000	11005	\$9.12
SC-41	3/32"	7/16"	1/8"	11010	11015	\$7.98
SC-42	1/8"	9/16"	1/8"	11020	11025	\$7.98
SC-42L2	1/8"	9/16"	1/8"	11030	11035	\$11.01
SC-42L3	1/8"	9/16"	1/8"	11040	11045	\$12.46
SC-11	1/8"	1/2"	1/4"	11050	11055	\$15.84
SC-12	1/8"	5/8"	1/4"	11060	11065	\$15.84
SC-81	3/16"	1/2"	3/16"	11070	11075	\$14.27
SC-53	3/16"	1/2"	1/8"	11080	11085	\$19.16
SC-14	3/16"	5/8"	1/4"	11090	11095	\$15.84
SC-51	1/4"	1/2"	1/8"	11100	11105	\$13.06
SC-1	1/4"	5/8"	1/4"	11110	11115	\$15.84
SC-1L6	1/4"	1/2"	1/4"	11120	11125	\$22.13
SC-1 NF	1/4"	3/4"	1/4"	11130	11135	\$20.69
SC-2	5/16"	3/4"	1/4"	11140	11145	\$19.40
SC-3	3/8"	3/4"	1/4"	11150	11155	\$21.29
SC-3L	3/8"	1"	1/4"	11160	11165	\$25.10
SC-3L6	3/8"	3/4"	1/4"	11170	11175	\$29.81
SC-3 NF	3/8"	3/4"	1/4"	11180	11185	\$27.70
SC-4	7/16"	1"	1/4"	11190	11195	\$30.41
SC-5	1/2"	1"	1/4"	11200	11205	\$33.51
SC-5L6	1/2"	1"	1/4"	11210	11215	\$46.86
SC-5 NF	1/2"	1"	1/4"	11220	11225	\$40.57
SC-6*	5/8"	1"	1/4"	11230	11235	\$42.15
SC-6 NF*	5/8"	1"	1/4"	11240	11245	\$61.80
SC-15*	3/4"	1/2"	1/4"	11250	11255	\$55.02
SC-16*	3/4"	3/4"	1/4"	11260	11265	\$60.47
SC-7*	3/4"	1"	1/4"	11270	11275	\$60.47
SC-7 NF*	3/4"	1"	1/4"	11280	11285	\$84.90
SC-9*	1"	1"	1/4"	11290	11295	\$91.67

**3/8" Shanks Optional*

BALL SHAPE - SD


Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SD-41	3/32"	3/32"	1/8"	11300	11305	\$7.98
SD-61	3/32"	3/32"	3/32"	11310	11315	\$9.12
SD-11	1/8"	3/32"	1/4"	11320	11325	\$14.57
SD-42	1/8"	1/8"	1/8"	11330	11335	\$7.98
SD-42L2	1/8"	1/8"	1/8"	11340	11345	\$11.01
SD-42L3	1/8"	1/8"	1/8"	11350	11355	\$12.46
SD-52	5/32"	5/32"	1/8"	11360	11365	\$19.16
SD-14	3/16"	1/8"	1/4"	11370	11375	\$14.57
SD-81	3/16"	5/32"	3/16"	11380	11385	\$14.27
SD-53	3/16"	5/32"	1/8"	11390	11395	\$19.16
SD-1	1/4"	7/32"	1/4"	11400	11405	\$14.57
SD-1L6	1/4"	7/32"	1/4"	11410	11415	\$20.43
SD-1 NF	1/4"	7/32"	1/4"	11420	11425	\$20.43
SD-51	1/4"	7/32"	1/8"	11430	11435	\$13.06
SD-2	5/16"	1/4"	1/4"	11440	11445	\$15.67
SD-3	3/8"	5/16"	1/4"	11450	11455	\$17.48
SD-3L6	3/8"	5/16"	1/4"	11460	11465	\$24.52
SD-3 NF	3/8"	5/16"	1/4"	11470	11475	\$22.80
SD-4	7/16"	3/16"	1/4"	11480	11485	\$20.19
SD-5	1/2"	7/16"	1/4"	11490	11495	\$23.58
SD-5L6	1/2"	7/16"	1/4"	11500	11505	\$33.02
SD-5 NF	1/2"	7/16"	1/4"	11510	11515	\$32.66
SD-6*	5/8"	9/16"	1/4"	11520	11525	\$29.21
SD-6 NF*	5/8"	9/16"	1/4"	11530	11535	\$59.02
SD-7*	3/4"	11/16"	1/4"	11540	11545	\$40.33
SD-7 NF*	3/4"	11/16"	1/4"	11550	11555	\$99.78
SD-9*	1"	15/16"	1/4"	11560	11565	\$69.30

*3/8" Shanks Optional

EGG SHAPE - SE



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SE-61	3/32"	1/8"	3/32"	11600	11605	\$9.12
SE-41	1/8"	7/32"	1/8"	11610	11615	\$7.98
SE-41L2	1/8"	7/32"	1/8"	11620	11625	\$11.01
SE-41L3	1/8"	7/32"	1/8"	11630	11635	\$12.46
SE-81	3/16"	9/32"	3/16"	11640	11645	\$14.27
SE-53	3/16"	9/32"	1/8"	11650	11655	\$19.16
SE-11	3/16"	5/16"	1/4"	11660	11665	\$17.78
SE-1	1/4"	3/8"	1/4"	11670	11675	\$17.78
SE-1L6	1/4"	3/8"	1/4"	11680	11685	\$24.60
SE-51	1/4"	3/8"	1/8"	11690	11695	\$13.06
SE-3	3/8"	5/8"	1/4"	11700	11705	\$21.29
SE-3L6	3/8"	5/8"	1/4"	11710	11715	\$29.81
SE-3 NF	3/8"	5/8"	1/4"	11720	11725	\$30.00
SE-5	1/2"	7/8"	1/4"	11730	11735	\$31.20
SE-5 NF	1/2"	7/8"	1/4"	11740	11745	\$36.94
SE-6*	5/8"	1"	1/4"	11750	11755	\$43.34
SE-6 NF*	5/8"	1"	1/4"	11760	11765	\$66.52
SE-7*	3/4"	1"	1/4"	11770	11775	\$58.16
SE-7 NF*	3/4"	1"	1/4"	11780	11785	\$88.64

**3/8" Shanks Optional*

ROUND TREE SHAPE - SF


Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SF-61	3/32"	1/4"	3/32"	11800	11805	\$9.12
SF-41	1/8"	1/4"	1/8"	11810	11815	\$7.98
SF-11	1/8"	1/2"	1/4"	11820	11825	\$16.52
SF-42	1/8"	1/2"	1/8"	11830	11835	\$7.98
SF-42L2	1/8"	1/2"	1/8"	11840	11845	\$11.01
SF-42L3	1/8"	1/2"	1/8"	11850	11855	\$12.46
SF-81	3/16"	1/2"	3/16"	11860	11865	\$14.27
SF-53	3/16"	1/2"	1/8"	11870	11875	\$19.16
SF-51	1/4"	1/2"	1/8"	11880	11885	\$13.06
SF-1	1/4"	3/4"	1/4"	11890	11895	\$16.52
SF-1L6	1/4"	1/2"	1/4"	11900	11905	\$23.10
SF-1 NF	1/4"	3/4"	1/4"	11910	11915	\$20.69
SF-3	3/8"	3/4"	1/4"	11920	11925	\$20.85
SF-3L6	3/8"	3/4"	1/4"	11930	11935	\$29.21
SF-4	7/16"	1"	1/4"	11940	11945	\$28.96
SF-13	1/2"	3/4"	1/4"	11950	11955	\$30.84
SF-5	1/2"	1"	1/4"	11960	11965	\$30.84
SF-5L6	1/2"	1"	1/4"	11970	11975	\$43.05
SF-5 NF	1/2"	1"	1/4"	11980	11985	\$41.12
SF-6*	5/8"	1"	1/4"	11990	11995	\$42.57
SF-6 NF*	5/8"	1"	1/4"	12000	12005	\$59.02
SF-7*	3/4"	1"	1/4"	12010	12015	\$56.00
SF-14*	3/4"	1.25"	1/4"	12020	12025	\$70.44
SF-14 NF*	3/4"	1.25"	1/4"	12030	12035	\$81.40
SF-15*	3/4"	1.5"	1/4"	12040	12045	\$82.71

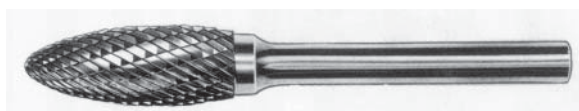
**3/8" Shanks Optional*

POINTED TREE SHAPE - SG



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SG-61	3/32"	1/4"	3/32"	12100	12105	\$9.12
SG-41	1/8"	1/4"	1/8"	12110	12115	\$7.98
SG-42	1/8"	5/16"	1/8"	12120	12125	\$7.98
SG-43	1/8"	3/8"	1/8"	12130	12135	\$7.98
SG-44	1/8"	1/2"	1/8"	12140	12145	\$7.98
SG-44L2	1/8"	1/2"	1/8"	12150	12155	\$11.01
SG-44L3	1/8"	1/2"	1/8"	12160	12165	\$12.46
SG-81	3/16"	1/2"	3/16"	12170	12175	\$14.27
SG-53	3/16"	1/2"	1/8"	12180	12185	\$19.16
SG-1	1/4"	5/8"	1/4"	12190	12195	\$16.52
SG-1L6	1/4"	1/2"	1/4"	12200	12205	\$23.10
SG-51	1/4"	1/2"	1/8"	12210	12215	\$13.06
SG-2	5/16"	3/4"	1/4"	12220	12225	\$20.08
SG-3	3/8"	3/4"	1/4"	12230	12235	\$22.25
SG-3L6	3/8"	3/4"	1/4"	12240	12245	\$31.08
SG-5	1/2"	1"	1/4"	12250	12255	\$30.24
SG-5L6	1/2"	1"	1/4"	12260	12265	\$42.44
SG-6*	5/8"	1"	1/4"	12270	12275	\$42.08
SG-7*	3/4"	1"	1/4"	12280	12285	\$56.00
SG-15*	3/4"	1.5"	1/4"	12290	12295	\$82.71

FLAME SHAPE - SH



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SH-41	1/8"	1/4"	1/8"	12300	12305	\$7.98
SH-41L2	1/8"	1/4"	1/8"	12310	12315	\$11.01
SH-41L3	1/8"	1/4"	1/8"	12320	12325	\$12.46
SH-53	3/16"	3/8"	1/8"	12330	12335	\$19.16
SH-1	1/4"	5/8"	1/4"	12340	12345	\$19.40
SH-2	5/16"	3/4"	1/4"	12350	12355	\$21.88
SH-2L6	5/16"	3/4"	1/4"	12360	12365	\$30.66
SH-5	1/2"	1.25"	1/4"	12370	12375	\$44.63
SH-5L6	1/2"	1.25"	1/4"	12380	12385	\$62.41
SH-6*	5/8"	1.4375"	1/4"	12390	12395	\$61.61
SH-7*	3/4"	1.625"	1/4"	12400	12405	\$78.24

**3/8" Shanks Optional*

60° CONE SHAPE - SJ



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SJ-42	1/8"	3/32"	1/8"	12500	12505	\$7.98
SJ-1	1/4"	3/16"	1/4"	12510	12515	\$14.57
SJ-3	3/8"	5/16"	1/4"	12520	12525	\$18.98
SJ-5	1/2"	7/16"	1/4"	12530	12535	\$23.15
SJ-6*	5/8"	9/16"	1/4"	12540	12545	\$30.84
SJ-7*	3/4"	11/16"	1/4"	12550	12555	\$40.45
SJ-9*	1"	15/16"	1/4"	12560	12565	\$64.88

90° CONE SHAPE - SK



Item	Cutting Dia.	Flute Length	Shk. Dia.	Single Cut Part No.	Double Cut Part No.	Price
SK-42	1/8"	1/16"	1/8"	12570	12575	\$7.98
SK-1	1/4"	1/8"	1/4"	12580	12585	\$14.57
SK-3	3/8"	3/16"	1/4"	12590	12595	\$18.98
SK-5	1/2"	1/4"	1/4"	12600	12605	\$23.15
SK-6*	5/8"	5/16"	1/4"	12610	12615	\$30.84
SK-7*	3/4"	3/8"	1/4"	12620	12625	\$40.45
SK-9*	1"	1/2"	1/4"	12630	12635	\$64.88

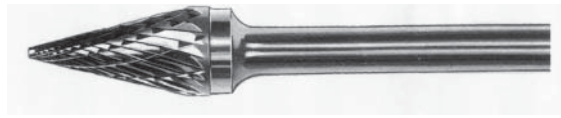
TAPER WITH ROUND END - SL



Item	Cutting Dia.	Flute Length	Shk. Dia.	Included Angle	Single Cut Part No.	Double Cut Part No.	Price
SL-41	1/8"	3/8"	1/8"	8	12700	12705	\$7.98
SL-42	1/8"	1/2"	1/8"	8	12710	12715	\$7.98
SL-42L2	1/8"	1/2"	1/8"	8	12720	12725	\$11.01
SL-42L3	1/8"	1/2"	1/8"	8	12730	12735	\$12.46
SL-81	3/16"	7/16"	3/16"	14	12740	12745	\$14.27
SL-53	3/16"	1/2"	1/8"	14	12750	12755	\$19.16
SL-1	1/4"	5/8"	1/4"	14	12760	12765	\$16.93
SL-1L6	1/4"	5/8"	1/4"	14	12770	12775	\$23.64
SL-2	5/16"	7/8"	1/4"	14	12780	12785	\$22.19
SL-3	3/8"	1.0625"	1/4"	14	12790	12795	\$26.61
SL-3L6	3/8"	1.0625"	1/4"	14	12800	12805	\$37.25
SL-3 NF	3/8"	1.0625"	1/4"	14	12810	12815	\$37.56
SL-4	1/2"	1.125"	1/4"	14	12820	12825	\$32.53
SL-4L6	1/2"	1.125"	1/4"	14	12830	12835	\$45.59
SL-4 NF	1/2"	1.125"	1/4"	14	12840	12845	\$51.75
SL-5	5/8"	1.187"	1/4"	14	12850	12855	\$58.11
SL-5 NF*	5/8"	1.187"	1/4"	14	12860	12865	\$83.15
SL-6	5/8"	1.312"	1/4"	14	12870	12875	\$64.03
SL-6 NF*	5/8"	1.312"	1/4"	14	12880	12885	\$94.22
SL-7*	3/4"	1.5"	1/4"	14	12890	12895	\$84.46
SL-7 NF*	3/4"	1.5"	1/4"	14	12900	12905	\$110.47

**3/8" Shanks Optional*

CONE SHAPE - SM



Item	Cutting Dia.	Flute Length	Shk. Dia.	Included Angle	Single Cut Part No.	Double Cut Part No.	Price
SM-61	3/32"	1/4"	3/32"	10	13000	13005	\$9.12
SM-41	1/8"	11/32"	1/8"	12	13010	13015	\$7.98
SM-42	1/8"	7/16"	1/8"	14	13020	13025	\$7.98
SM-42L2	1/8"	7/16"	1/8"	14	13030	13035	\$11.01
SM-42L3	1/8"	7/16"	1/8"	14	13040	13045	\$12.46
SM-43	1/8"	5/8"	1/8"	7	13050	13055	\$7.98
SM-53	3/16"	1/2"	1/8"	16	13060	13065	\$19.16
SM-1	1/4"	1/2"	1/4"	22	13070	13075	\$16.02
SM-51	1/4"	1/2"	1/8"	22	13080	13085	\$13.06
SM-2	1/4"	3/4"	1/4"	14	13090	13095	\$16.93
SM-3	1/4"	1"	1/4"	10	13100	13105	\$18.08
SM-4	3/8"	5/8"	1/4"	28	13110	13115	\$26.66
SM-5	1/2"	7/8"	1/4"	28	13120	13125	\$33.43
SM-6*	5/8"	1"	1/4"	31	13130	13135	\$44.63

INVERTED CONE SHAPE - SN



Item	Cutting Dia.	Flute Length	Shk. Dia.	Included Angle	Single Cut Part No.	Double Cut Part No.	Price
SN-41	3/32"	1/8"	1/8"	10	13140	13145	\$7.98
SN-61	3/32"	1/8"	3/32"	10	13150	13155	\$9.12
SN-42	1/8"	3/16"	1/8"	10	13160	13165	\$7.98
SN-81	3/16"	1/4"	3/16"	10	13170	13175	\$14.27
SN-53	3/16"	1/4"	1/8"	10	13180	13185	\$19.16
SN-51	1/4"	1/4"	1/8"	10	13190	13195	\$13.06
SN-1	1/4"	5/16"	1/4"	10	13200	13205	\$16.15
SN-2	3/8"	3/8"	1/4"	13	13210	13215	\$23.58
SN-4	1/2"	1/2"	1/4"	28	13220	13225	\$33.32
SN-6*	5/8"	3/4"	1/4"	18	13230	13235	\$42.75
SN-7*	3/4"	5/8"	1/4"	30	13240	13245	\$48.01

**3/8" Shanks Optional*



Fox Tool Company also offers quality resharpener on all tools including:

- End Mills
- Hi-Performance Drills
- Step Reamers
- Taps
- Carbide Burs
- Saw Blades
- Counter Sinks

If there is a special Carbide Cutting Tool that you did not see in the catalog Fox Tool can make anything to your print!! This includes:

- Special Length End Mills
- Special Length Burs
- Double End Burs
- Form Tools

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PRICE GUIDE

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