

MC77-11

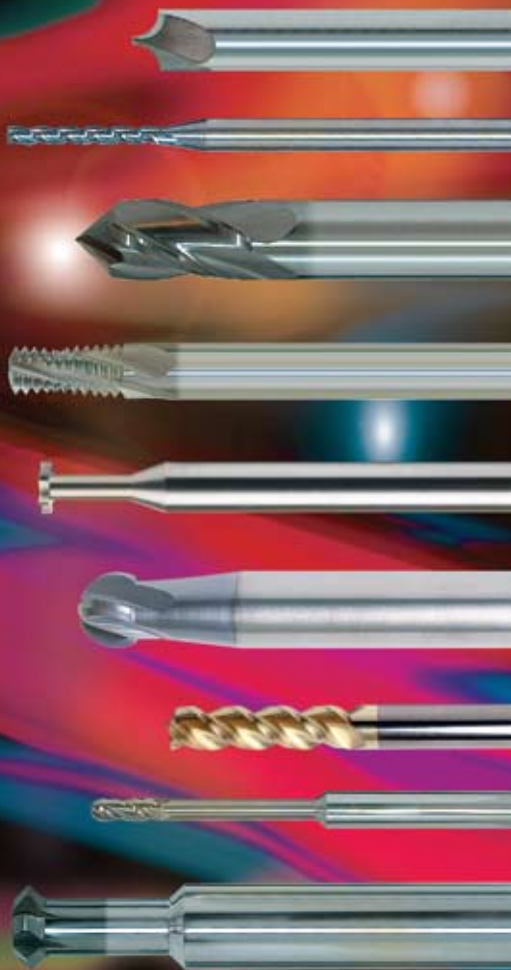
Microcut

Handbook of

Special Application Carbide Micro Cutting Tools



Made in USA



www.microcutusa.com

Sharp Ideas for Carbide Cutting Tools

Microcut

Microcut is a manufacturer and distributor of miniature and micro-sized carbide cutting tools. We also offer High Performance carbide end mills and special application rotary cutting tools, including custom designed tooling.

Operating from facilities in Kingston, Massachusetts, Microcut specializes in CNC manufactured cutting tools and worldwide distribution of miniature and small cutting tools for use by mold builders and production machining facilities.

Microcut's large inventory warehouse assures *Same Day Delivery* of all stocked items, while many special products or modified standards are available with short lead times.

All products are available through selected U.S. Industrial Distributors or direct from the Factory in certain geographical areas and countries.

ONLINE "STOCK CHECK" ON WEB SITE

Two ways to check. Enter a tool number on the "Stock Check" page or click the stock check link next to each product in the online catalog.



ORDERING & TERMS

MICROCUT products may be ordered through your local cutting tool distributor. To find your local distributor, use our **Online Distributor Locator** found on our web site at www.microcutUSA.com.

Terms: Freight F.O.B. Kingston, MA. No returns accepted without our permission and must be accompanied by an RGA number. Returns subject to a 25% re-stocking charge. No requests for returns accepted after 15 days from date of invoice. Prices and specifications subject to change without notice.

NOTE: Special Cutting Tools and Special Long Reach Cutters are nonreturnable.

MICROCUT, INC.

68 Evergreen St., Unit 3, Kingston, MA 02364

TOLL FREE 866-426-3300

TEL 781-582-8090 • FAX 781-582-8095

info@microcutUSA.com • www.microcutUSA.com

Microcut Corporate Offices Kingston, MA



TOOL DESCRIPTION	PAGE
MICRO END MILLS	
2 FLUTE DECIMAL STANDARD LENGTH - SQUARE & BALL END.....	4, 5, 6, 8
2 FLUTE DECIMAL LONG REACH - SQUARE END AND BALL END.....	7, 9
2 FLUTE DECIMAL STUB LENGTH - SQUARE & BALL END	10, 12
2 FLUTE DECIMAL STUB LONG REACH - SQUARE END & BALL END.....	11, 13
2 FLUTE FRACTIONAL SIZES - SQUARE & BALL END	26, 27
2 FLUTE FRACTIONAL SIZES - LONG REACH	31
2 FLUTE METRIC - SQUARE & BALL END	28, 29
2 FLUTE METRIC LONG REACH SQUARE & BALL END	30
3 FLUTE DECIMAL STANDARD SQUARE END	14
3 FLUTE DECIMAL STUB LENGTH - SQUARE END	15
3 FLUTE DECIMAL STD. LONG REACH - SQUARE END.....	14
3 FLUTE DECIMAL STUB LONG REACH - SQUARE END	15
4 FLUTE DECIMAL STD LTH. - SQUARE & BALL END.....	16, 18, 24
4 FLUTE DECIMAL STD LTH. - LONG REACH - SQUARE & BALL END	17, 19
4 FLUTE DECIMAL STUB LENGTH - SQUARE AND BALL END	20, 22
4 FLUTE DECIMAL STUB LONG REACH - SQUARE & BALL END	21, 23
4 FLUTE FRACTIONAL SQUARE & BALL END	26, 27
4 FLUTE FRACTIONAL SIZES - LONG REACH	31
4 FLUTE METRIC-SQUARE & BALL END	28, 29
4 FLUTE METRIC LONG REACH SQUARE & BALL END	30
4 FLUTE DECIMAL LONG SHANK - SQUARE & BALL END	32, 34
4 FLUTE DECIMAL LG. SHANK - LG. REACH - SQ. & BALL END	33, 35
4 FLUTE DECIMAL STUB - LONG SHANK - SQ & BALL END	36, 38
4 FLUTE DECIMAL STUB LG. RCH. - SQ & BALL END.....	37, 39
HIGH PERFORMANCE END MILLS	
VARIABLE HELIX - STD. & STUB & LG REACH.....	40-41
CORNER RADIUS DECIMAL & FRACTIONAL	42-45
CORNER RADIUS STUB & LG REACH.....	46-47
PROFILE BALL END MILLS & UNDERCUTTING SPHERICAL.....	48, 50
DIE & MOLD CUTTERS & HARD MILLING	49, 51
ROUGHERS & 3, 5 FLUTE HI-HELIX END MILLS	51, 56, 57
HI-PERF ALUMINUM & LONG REACH.....	52, 53, 54, 55
CORNER ROUNDING END MILLS	
2 FLUTE DOUBLE END.....	58, 59
2 FLUTE DOUBLE END FLARED	61
4 FLUTE DOUBLE END.....	60
4 FLUTE DOUBLE END FLARED	60
DIAMOND MICRO END MILLS	
2 & 4 FLUTE END MILLS - SQ. & BALL END	84-87
2 & 4 FLUTE CORNER RADIUS END MILLS.....	88, 89
4 FLUTE LONG SHANK - LONG FLUTE SQ. & BALL	90, 91
4 FLUTE LONG SHANK - STUB FLUTE SQ. & BALL	92, 93
CVD & PCD DIAMOND FRACTIONAL END MILLS.....	94, 95
SPECIALITY TOOLS	
ENGRAVING CUTTERS.....	78, 79
DRILL MILLS	62, 63
KEYSEAT CUTTERS	64, 65
THREADMILLS	66, 67, 68, 69
DOUBLE ANGLE CUTTERS	70, 71
SPOTTING DRILLS & COUNTERSINKS.....	72, 73, 74, 75, 76
DOVETAIL CUTTERS.....	77
CHAMFER CUTTERS	80, 81
PLASTIC & ALUMINUM ROUTERS, SHEAR HOGS & INSERTS.....	82, 83
EXTENSION HOLDERS FRACTIONAL & METRIC	25
FEED & SPEED CHARTS.....	96, 97

2-FLUTE DECIMAL END MILLS

Microcut



DECIMAL END MILLS - 2 FLUTE - .002" - .125" SQUARE & BALL END

CARBIDE - STD. L.O.C. - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
82002	-	.002"	.006"	\$34.75	-
82003	-	.003"	.009"	\$28.75	-
82004	-	.004"	.012"	\$24.75	-
82005	82005B	.005"	.015"	\$22.75	\$32.50
82006	82006B	.006"	.018"	\$22.75	\$32.50
82007	82007B	.007"	.021"	\$22.75	\$32.50
82008	82008B	.008"	.024"	\$22.75	\$32.50
82009	82009B	.009"	.027"	\$22.75	\$32.50
82010	82010B	.010"	.030"	\$18.90	\$27.50
82011	82011B	.011"	.033"	\$18.90	\$27.50
82012	82012B	.012"	.036"	\$18.90	\$27.50
82013	82013B	.013"	.039"	\$18.90	\$27.50
82014	82014B	.014"	.042"	\$18.90	\$27.50
82015	82015B	.015"	.045"	\$16.50	\$22.50
82016	82016B	.016"	.048"	\$16.50	\$22.50
82017	82017B	.017"	.051"	\$16.50	\$22.50
82018	82018B	.018"	.054"	\$16.50	\$22.50
82019	82019B	.019"	.057"	\$16.50	\$22.50
82020	82020B	.020"	.060"	\$15.50	\$21.50
82021	82021B	.021"	.063"	\$15.50	\$21.50
82022	82022B	.022"	.066"	\$15.50	\$21.50
82023	82023B	.023"	.069"	\$15.50	\$21.50
82024	82024B	.024"	.072"	\$15.50	\$21.50
82025	82025B	.025"	.075"	\$14.50	\$19.50
82026	82026B	.026"	.078"	\$14.50	\$19.50
82027	82027B	.027"	.081"	\$14.50	\$19.50
82028	82028B	.028"	.084"	\$14.50	\$19.50
82029	82029B	.029"	.087"	\$14.50	\$19.50
82030	82030B	.030"	.090"	\$13.50	\$17.50
82031	82031B	.031"	.093"	\$13.50	\$17.50
82031L	82031LB	.031"	.125"	\$13.50	\$17.50

Continued Next Page

2-FLUTE DECIMAL END MILLS

Microcut



DECIMAL END MILLS - 2 FLUTE - .002" - .125" SQUARE & BALL END

CARBIDE - STD. L.O.C. - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
82032	82032B	.032"	.096"	\$13.50	\$17.50
82033	82033B	.033"	.099"	\$13.50	\$17.50
82034	82034B	.034"	.102"	\$13.50	\$17.50
82035	82035B	.035"	.105"	\$12.50	\$16.50
82036	82036B	.036"	.108"	\$12.50	\$16.50
82037	82037B	.037"	.111"	\$12.50	\$16.50
82038	82038B	.038"	.114"	\$12.50	\$16.50
82039	82039B	.039"	.117"	\$12.50	\$16.50
82040	82040B	.040"	.120"	\$12.50	\$16.50
82041	82041B	.041"	.123"	\$12.50	\$16.50
82042	82042B	.042"	.126"	\$12.50	\$16.50
82043	82043B	.043"	.129"	\$12.50	\$16.50
82044	82044B	.044"	.132"	\$12.50	\$16.50
82045	82045B	.045"	.135"	\$12.50	\$16.50
82046	82046B	.046"	.138"	\$12.50	\$16.50
82047	82047B	.047"	.141"	\$12.50	\$16.50
82048	82048B	.048"	.144"	\$12.50	\$16.50
82049	82049B	.049"	.147"	\$12.50	\$16.50
82050	82050B	.050"	.150"	\$12.50	\$16.50
82051	82051B	.051"	.153"	\$12.50	\$16.50
82052	82052B	.052"	.156"	\$12.50	\$16.50
82053	82053B	.053"	.159"	\$12.50	\$16.50
82054	82054B	.054"	.162"	\$12.50	\$16.50
82055	82055B	.055"	.165"	\$12.50	\$16.50
82056	82056B	.056"	.168"	\$12.50	\$16.50
82057	82057B	.057"	.171"	\$12.50	\$16.50
82058	82058B	.058"	.174"	\$12.50	\$16.50
82059	82059B	.059"	.177"	\$12.50	\$16.50
82060	82060B	.060"	.180"	\$11.75	\$15.75
82061	82061B	.061"	.183"	\$11.75	\$15.75

Continued Next Page

2-FLUTE DECIMAL END MILLS

Microcut



DECIMAL END MILLS - 2 FLUTE - .002" - .125" SQUARE & BALL END

CARBIDE - STD. 3X L.O.C. - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
82062	82062B	.062"	.187"	\$11.75	\$15.75
82062L	82062LB	.062"	.250"	\$11.75	\$15.75
82063	82063B	.063"	.189"	\$11.75	\$15.75
82064	82064B	.064"	.192"	\$11.75	\$15.75
82065	82065B	.065"	.195"	\$11.75	\$15.75
82066	82066B	.066"	.198"	\$11.75	\$15.75
82067	82067B	.067"	.201"	\$11.75	\$15.75
82068	82068B	.068"	.204"	\$11.75	\$15.75
82069	82069B	.069"	.207"	\$11.75	\$15.75
82070	82070B	.070"	.210"	\$11.75	\$15.75
82071	82071B	.071"	.213"	\$11.75	\$15.75
82072	82072B	.072"	.216"	\$11.75	\$15.75
82073	82073B	.073"	.219"	\$11.75	\$15.75
82074	82074B	.074"	.222"	\$11.75	\$15.75
82075	82075B	.075"	.225"	\$11.75	\$15.75
82078	82078B	.078"	.234"	\$11.75	\$15.75
82080	82080B	.080"	.240"	\$11.75	\$15.75
82082	82082B	.082"	.246"	\$11.75	\$15.75
82085	82085B	.085"	.255"	\$11.75	\$15.75
82090	82090B	.090"	.270"	\$11.75	\$15.75
82093	82093B	.093"	.279"	\$11.75	\$15.75
82093L	82093LB	.093"	.375"	\$11.75	\$15.75
82095	82095B	.095"	.285"	\$11.75	\$15.75
82098	82098B	.098"	.294"	\$11.75	\$15.75
82100	82100B	.100"	.300"	\$11.75	\$15.75
82105	82105B	.105"	.315"	\$11.75	\$15.75
82110	82110B	.110"	.330"	\$11.75	\$15.75
82115	82115B	.115"	.345"	\$11.75	\$15.75
82118	82118B	.118"	.354"	\$11.75	\$15.75
82120	82120B	.120"	.360"	\$11.75	\$15.75
82125	82125B	.125"	.500"	\$11.75	\$15.75

LONG REACH 2-FLUTE END MILLS

Microcut



Neck is reduced
for clearance.

LONG REACH - 2-FLUTE

SQUARE END & BALL END -1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
72010	72010B	.010"	.030"	.075"	\$34.75	\$45.50
72015	72015B	.015"	.045"	.125"	\$27.50	\$33.50
72020	72020B	.020"	.060"	.165"	\$26.50	\$32.50
72025	72025B	.025"	.075"	.205"	\$25.50	\$30.50
72030	72030B	.030"	.090"	.250"	\$24.50	\$28.50
72031	72031B	.031"	.125"	.250"	\$24.50	\$28.50
72035	72035B	.035"	.105"	.285"	\$24.50	\$28.50
72040	72040B	.040"	.120"	.350"	\$24.50	\$28.50
72045	72045B	.045"	.135"	.400"	\$24.50	\$28.50
72047	72047B	.047"	.141"	.400"	\$24.50	\$28.50
72050	72050B	.050"	.150"	.450"	\$24.50	\$28.50
72055	72055B	.055"	.165"	.450"	\$24.50	\$28.50
72060	72060B	.060"	.180"	.500"	\$24.50	\$28.50
72062	72062B	.062"	.250"	.500"	\$24.50	\$28.50
72065	72065B	.065"	.195"	.500"	\$24.50	\$28.50
72070	72070B	.070"	.210"	.500"	\$24.50	\$28.50
72075	72075B	.075"	.225"	.500"	\$24.50	\$28.50
72078	72078B	.078"	.234"	.500"	\$24.50	\$28.50
72080	72080B	.080"	.240"	.500"	\$24.50	\$28.50
72090	72090B	.090"	.270"	.600"	\$24.50	\$28.50
72093	72093B	.093"	.375"	.600"	\$24.50	\$28.50
72100	72100B	.100"	.300"	.600"	\$24.50	\$28.50

ACCU-HOLD END MILL EXTENSION HOLDERS

I.D. CONCENTRIC WITHIN .0003" - I.D. HOLE SIZE +.00015/-0



Tool Number	I.D. Hole Size	Shank Diameter	O.A.L.	Price Each
ACH1250	.1250"	3/8"	3-1/4"	\$169.00
ACH1250L	.1250"	3/8"	6"	\$239.00
ACH1875	.1875"	1/2"	3-1/2"	\$169.00
ACH1875L	.1875"	1/2"	5"	\$179.00
ACH2500	.2500"	5/8"	4-1/4"	\$189.00
ACH2500L	.2500"	5/8"	6"	\$195.00

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

2-FLUTE DECIMAL AITiN END MILLS

Microcut



DECIMAL END MILLS - 2 FLUTE - .010" - .125"

SQUARE & BALL END - 1/8" DIA. SHANK - 1-1/2" O.A.L.

AITiN COATED

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
82010TL	82010BTL	.010"	.030"	\$21.90	\$31.90
82012TL	82012BTL	.012"	.036"	\$21.90	\$31.90
82015TL	82015BTL	.015"	.045"	\$19.95	\$24.50
82018TL	82018BTL	.018"	.054"	\$19.95	\$24.50
82020TL	82020BTL	.020"	.060"	\$19.50	\$23.50
82022TL	82022BTL	.022"	.066"	\$19.50	\$23.50
82025TL	82025BTL	.025"	.075"	\$18.50	\$22.50
82027TL	82027BTL	.027"	.081"	\$18.50	\$22.50
82030TL	82030BTL	.030"	.090"	\$17.50	\$21.50
82031TL	82031BTL	.031"	.093"	\$17.50	\$21.50
82035TL	82035BTL	.035"	.105"	\$16.50	\$20.50
82038TL	82038BTL	.038"	.114"	\$16.50	\$20.50
82040TL	82040BTL	.040"	.120"	\$16.50	\$20.50
82045TL	82045BTL	.045"	.135"	\$16.00	\$19.95
82047TL	82047BTL	.047"	.141"	\$16.00	\$19.95
82050TL	82050BTL	.050"	.150"	\$16.00	\$19.95
82052TL	82052BTL	.052"	.156"	\$16.00	\$19.95
82055TL	82055BTL	.055"	.165"	\$16.00	\$19.95
82059TL	82059BTL	.059"	.177"	\$16.00	\$19.95
82060TL	82060BTL	.060"	.180"	\$14.90	\$18.90
82062TL	82062BTL	.062"	.186"	\$14.90	\$18.90
82065TL	82065BTL	.065"	.195"	\$14.90	\$18.90
82067TL	82067BTL	.067"	.201"	\$14.90	\$18.90
82070TL	82070BTL	.070"	.210"	\$14.90	\$18.90
82072TL	82072BTL	.072"	.216"	\$14.90	\$18.90
82075TL	82075BTL	.075"	.225"	\$14.90	\$18.90
82078TL	82078BTL	.078"	.234"	\$14.90	\$18.90
82080TL	82080BTL	.080"	.240"	\$14.90	\$18.90
82085TL	82085BTL	.085"	.255"	\$14.90	\$18.90
82090TL	82090BTL	.090"	.270"	\$14.90	\$18.90
82093TL	82093BTL	.093"	.279"	\$14.90	\$18.90
82098TL	82098BTL	.098"	.294"	\$14.90	\$18.90
82100TL	82100BTL	.100"	.300"	\$14.90	\$18.90
82125TL	82125BTL	.125"	.500"	\$14.90	\$18.90

LONG REACH 2-FLUTE AITiN END MILLS

Microcut



Neck is reduced
for clearance.



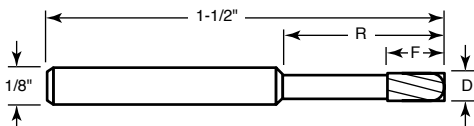
LONG REACH - 2-FLUTE

SQUARE END & BALL END -1/8" DIA. SHANK - 1-1/2" O.A.L.

ALTiN COATED

Square End	Ball End	Cutter Dia.	Length of Cut	Reach From Tip	Square End	Ball End
72015TL	72015BTL	.015"	.045"	.125"	\$32.50	\$38.50
72020TL	72020BTL	.020"	.060"	.165"	\$30.50	\$36.50
72025TL	72025BTL	.025"	.075"	.205"	\$29.50	\$34.50
72030TL	72030BTL	.030"	.090"	.250"	\$29.50	\$34.50
72031TL	72031BTL	.031"	.125"	.250"	\$29.50	\$34.50
72035TL	72035BTL	.035"	.105"	.285"	\$29.50	\$34.50
72040TL	72040BTL	.040"	.120"	.350"	\$29.50	\$34.50
72045TL	72045BTL	.045"	.135"	.400"	\$28.50	\$33.50
72047TL	72047BTL	.047"	.141"	.400"	\$28.50	\$33.50
72050TL	72050BTL	.050"	.150"	.450"	\$28.50	\$33.50
72055TL	72055BTL	.055"	.165"	.450"	\$28.50	\$33.50
72060TL	72060BTL	.060"	.180"	.500"	\$28.50	\$33.50
72062TL	72062BTL	.062"	.250"	.500"	\$28.50	\$33.50
72065TL	72065BTL	.065"	.195"	.500"	\$28.50	\$33.50
72070TL	72070BTL	.070"	.210"	.500"	\$28.50	\$33.50
72075TL	72075BTL	.075"	.225"	.500"	\$28.50	\$33.50
72078TL	72078BTL	.078"	.234"	.500"	\$28.50	\$33.50
72080TL	72080BTL	.080"	.240"	.500"	\$28.50	\$33.50
72090TL	72090BTL	.090"	.270"	.600"	\$28.50	\$33.50
72093TL	72093BTL	.093"	.375"	.600"	\$28.50	\$33.50
72100TL	72100BTL	.100"	.300"	.600"	\$28.50	\$33.50

ORDER SPECIAL Square & Ball End LONG REACH MILLS



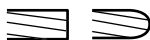
To order special long reach end mills please specify:

1. Specify: ☐ Square End or ☐ Ball End.
2. Diameter (D): _____
3. Flute Length (F): _____
4. Overall Reach (R): _____
5. Quantity (Minimum 6): _____
6. Specify: ☐ 2-Flute or ☐ 4-Flute.

**Special Reaches
Shipped
within
48 Hours!**

STUB LENGTH DECIMAL 2-FLUTE MILLS

Microcut



STUB LENGTH

SQUARE & BALL END

**CARBIDE DECIMAL END MILLS - 2 FLUTE - 1/8 DIA. SHANK
FLUTE LENGTH = 1.5 x DIA. OR AS SPECIFIED - O.A.L. 1-1/2"**

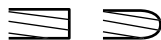
UNCOATED



TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
81005	81005B	.005"	.007"	\$23.50	\$33.50
81007	81007B	.007"	.011"	\$23.50	\$33.50
81010	81010B	.010"	.015"	\$18.75	\$26.75
81015	81015B	.015"	.022"	\$16.50	\$22.50
81020	81020B	.020"	.030"	\$15.50	\$19.50
81025	81025B	.025"	.037"	\$14.50	\$18.50
81030	81030B	.030"	.045"	\$14.50	\$18.50
81031	81031B	.031"	.046"	\$14.50	\$18.50
81035	81035B	.035"	.052"	\$12.50	\$16.50
81040	81040B	.040"	.060"	\$12.50	\$16.50
81045	81045B	.045"	.067"	\$12.50	\$16.50
81047	81047B	.047"	.070"	\$12.50	\$16.50
81050	81050B	.050"	.075"	\$12.50	\$16.50
81055	81055B	.055"	.082"	\$12.50	\$16.50
81060	81060B	.060"	.090"	\$11.50	\$15.50
81062	81062B	.062"	.093"	\$11.50	\$15.50
81065	81065B	.065"	.098"	\$11.50	\$15.50
81070	81070B	.070"	.105"	\$11.50	\$15.50
81075	81075B	.075"	.113"	\$11.50	\$15.50
81078	81078B	.078"	.117"	\$11.50	\$15.50
81080	81080B	.080"	.120"	\$11.50	\$15.50
81085	81085B	.085"	.128"	\$11.50	\$15.50
81090	81090B	.090"	.135"	\$11.50	\$15.50
81093	81093B	.093"	.140"	\$11.50	\$15.50
81100	81100B	.100"	.150"	\$11.50	\$15.50
81125	81125B	.125"	.250"	\$11.50	\$15.50

STUB LENGTH LONG REACH 2-FLUTE

Microcut



STUB LENGTH LONG REACH

SQUARE & BALL END

CARBIDE DECIMAL END MILLS - 2 FLUTE

1/8 DIA. SHANK - 1-1/2" O.A.L.

MINIMUM 3 TOOLS EACH SIZE

UNCOATED



TOOL NUMBER		Cutter Diameter	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
76215	76215B	.015"	.022"	.100"	\$27.50	\$33.50
76220	76220B	.020"	.030"	.120"	\$26.50	\$31.50
76225	76225B	.025"	.037"	.150"	\$25.50	\$30.50
76230	76230B	.030"	.045"	.180"	\$25.50	\$29.50
76231	76231B	.031"	.046"	.183"	\$25.50	\$29.50
76235	76235B	.035"	.052"	.210"	\$24.50	\$29.50
76240	76240B	.040"	.060"	.220"	\$24.50	\$28.50
76245	76245B	.045"	.067"	.270"	\$24.50	\$28.50
76247	76247B	.047"	.070"	.280"	\$24.50	\$28.50
76250	76250B	.050"	.075"	.300"	\$24.50	\$28.50
76255	76255B	.055"	.082"	.330"	\$24.50	\$28.50
76260	76260B	.060"	.090"	.360"	\$24.50	\$27.50
76262	76262B	.062"	.093"	.375"	\$24.50	\$27.50
76265	76265 B	.065"	.098"	.390"	\$24.50	\$27.50
76270	76270B	.070"	.105"	.420"	\$24.50	\$27.50
76275	76275B	.075"	.113"	.450"	\$24.50	\$27.50
76278	76278B	.078"	.117"	.470"	\$24.50	\$27.50
76280	76280B	.080"	.120"	.480"	\$24.50	\$27.50
76285	76285B	.085"	.127"	.510"	\$24.50	\$27.50
76290	76290B	.090"	.135"	.540"	\$24.50	\$27.50
76293	76293B	.093"	.140"	.560"	\$24.50	\$27.50
76200	76200B	.100"	.150"	.600"	\$24.50	\$27.50
76212	76212B	.125"	.250"	.600"	\$24.50	\$27.50

Special long reach end mills quoted on request. Minimum 6 pcs per size.

Ships within 48 hours or less.

Tools are custom manufactured to order and are nonreturnable.

New!! Express Service

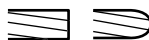
Ships same day as ordered. Call for details, price and availability.

Minimum order 6 tools per size.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

STUB LENGTH AITiN 2-FLUTE END MILLS

MicroCUT



STUB LENGTH

SQUARE & BALL END

CARBIDE DECIMAL END MILLS - 2 FLUTE - 1/8 DIA. SHANK
FLUTE LENGTH = 1.5 x DIA. OR AS SPECIFIED - O.A.L. 1-1/2"

AITiN COATED



TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
81010TL	81010BTL	.010"	.015"	\$22.75	\$32.75
81015TL	81015BTL	.015"	.022"	\$20.50	\$26.50
81020TL	81020BTL	.020"	.030"	\$19.50	\$24.50
81025TL	81025BTL	.025"	.037"	\$18.50	\$23.50
81030TL	81030BTL	.030"	.045"	\$18.50	\$22.50
81031TL	81031BTL	.031"	.046"	\$18.50	\$22.50
81035TL	81035BTL	.035"	.052"	\$16.50	\$20.50
81040TL	81040BTL	.040"	.060"	\$16.50	\$20.50
81045TL	81045BTL	.045"	.067"	\$16.50	\$20.50
81047TL	81047BTL	.047"	.070"	\$16.50	\$20.50
81050TL	81050BTL	.050"	.075"	\$16.50	\$20.50
81055TL	81055BTL	.055"	.082"	\$16.50	\$20.50
81060TL	81060BTL	.060"	.090"	\$15.50	\$19.50
81062TL	81062BTL	.062"	.093"	\$15.50	\$19.50
81065TL	81065BTL	.065"	.098"	\$15.50	\$19.50
81070TL	81070BTL	.070"	.105"	\$15.50	\$19.50
81075TL	81075BTL	.075"	.113"	\$15.50	\$19.50
81078TL	81078BTL	.078"	.117"	\$15.50	\$19.50
81080TL	81080BTL	.080"	.120"	\$15.50	\$19.50
81085TL	81085BTL	.085"	.128"	\$15.50	\$19.50
81090TL	81090BTL	.090"	.135"	\$15.50	\$19.50
81093TL	81093BTL	.093"	.140"	\$15.50	\$19.50
81100TL	81100BTL	.100"	.150"	\$15.50	\$19.50
81125TL	81125BTL	.125"	.250"	\$15.50	\$19.50

Special long reach end mills quoted on request.

Minimum 6 pieces per size.

Ships within 48 hours or less.

STUB LENGTH LONG REACH 2-FLT AITiN

Microcut



STUB LENGTH LONG REACH

SQUARE & BALL END

CARBIDE DECIMAL END MILLS - 2 FLUTE

1/8 DIA. SHANK - 1-1/2" O.A.L.

MINIMUM 3 TOOLS EACH SIZE

AITiN COATED



TOOL NUMBER		Cutter Diameter	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
76315	76315B	.015"	.022"	.100"	\$31.50	\$37.50
76320	76320B	.020"	.030"	.120"	\$30.50	\$35.50
76325	76325B	.025"	.037"	.150"	\$29.50	\$34.50
76330	76330B	.030"	.045"	.180"	\$29.50	\$33.50
76331	76331B	.031"	.046"	.183"	\$29.50	\$33.50
76335	76335B	.035"	.052"	.210"	\$28.50	\$33.50
76340	76340B	.040"	.060"	.220"	\$28.50	\$32.50
76345	76345B	.045"	.067"	.270"	\$28.50	\$32.50
76347	76347B	.047"	.070"	.280"	\$28.50	\$32.50
76350	76350B	.050"	.075"	.300"	\$28.50	\$32.50
76355	76355B	.055"	.082"	.330"	\$28.50	\$32.50
76360	76360B	.060"	.090"	.360"	\$28.50	\$31.50
76362	76362B	.062"	.093"	.375"	\$28.50	\$31.50
76365	76365B	.065"	.098"	.390"	\$28.50	\$31.50
76370	76370B	.070"	.105"	.420"	\$28.50	\$31.50
76375	76375B	.075"	.113"	.450"	\$28.50	\$31.50
76378	76378B	.078"	.117"	.470"	\$28.50	\$31.50
76380	76380B	.080"	.120"	.480"	\$28.50	\$31.50
76385	76385B	.085"	.127"	.510"	\$28.50	\$31.50
76390	76390B	.090"	.135"	.540"	\$28.50	\$31.50
76393	76393B	.093"	.140"	.560"	\$28.50	\$31.50
76300	76300B	.100"	.150"	.600"	\$28.50	\$31.50
76312	76312B	.125"	.250"	.600"	\$28.50	\$31.50

Special long reach end mills quoted on request. Minimum 6 pcs per size.

Ships within 48 hours or less.

Tools are custom manufactured to order and are nonreturnable.

New!! Express Service

Ships same day as ordered. Call for details, price and availability.

Minimum order 6 tools per size.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

13

3-FLUTE MICRO END MILLS

3 FLUTE STANDARD LENGTH - SQUARE END
CARBIDE DECIMAL END MILLS - 1/8 DIA. SHANK
FLUTE LENGTH = 1.5 x DIA. - O.A.L. 1-1/2"
UNCOATED & AITiN COATED



Not Coated	AITiN Coated	Cutter Diameter	Length of Cut	Price Each	Price Each
83010	83410	.010"	.030"	\$18.90	\$22.90
83015	83415	.015"	.045"	\$16.50	\$20.50
83020	83420	.020"	.060"	\$15.50	\$19.50
83025	83425	.025"	.075"	\$14.50	\$18.50
83030	83430	.030"	.090"	\$14.50	\$18.50
83031	83431	.031"	.093"	\$14.50	\$18.50
83035	83435	.035"	.105"	\$12.50	\$16.50
83040	83440	.040"	.120"	\$12.50	\$16.50
83045	83445	.045"	.135"	\$12.50	\$16.50
83047	83447	.047"	.141"	\$12.50	\$16.50
83050	83450	.050"	.150"	\$12.50	\$16.50
83060	83460	.060"	.180"	\$12.50	\$16.50
83062	83462	.062"	.186"	\$11.75	\$15.75
83065	83465	.065"	.195"	\$11.75	\$15.75
83070	83470	.070"	.210"	\$11.75	\$15.75
83075	83475	.075"	.225"	\$11.75	\$15.75
83078	83478	.078"	.234"	\$11.75	\$15.75
83090	83490	.090"	.270"	\$11.75	\$15.75
83093	83493	.093"	.279"	\$11.75	\$15.75
83000	83400	.100"	.300"	\$11.75	\$15.75
83012	83412	.125"	.375"	\$11.75	\$15.75

3 FLUTE LONG REACH - SQUARE END

1/8 DIA. SHK - FLT LGTH = 1.5 x DIA. - O.A.L. 1-1/2"

UNCOATED & AITiN - MINIMUM 3 TOOLS EACH SIZE

Tools are custom manufactured to order and are nonreturnable.

Shipped Within 24-48 Hours

Not Coated	AITiN Coated	Cutter Diameter	Length of Cut	Reach From Tip	Price Each	Price Each
83315	83215	.015"	.045"	.125"	\$26.75	\$31.25
83320	83220	.020"	.060"	.165"	\$25.50	\$30.50
83325	83225	.025"	.075"	.205"	\$24.75	\$29.75
83330	83230	.030"	.090"	.250"	\$24.75	\$29.75
83331	83231	.031"	.093"	.250"	\$24.75	\$29.75
83335	83235	.035"	.105"	.285"	\$24.75	\$29.75
83340	83240	.040"	.120"	.350"	\$24.75	\$29.75
83345	83245	.045"	.135"	.400"	\$23.90	\$28.40
83347	83247	.047"	.141"	.400"	\$23.90	\$28.40
83350	83250	.050"	.150"	.450"	\$23.90	\$28.40
83360	83260	.060"	.180"	.500"	\$23.90	\$28.40
83362	83262	.062"	.186"	.500"	\$23.90	\$28.40
83365	83265	.065"	.195"	.500"	\$23.90	\$28.40
83370	83270	.070"	.210"	.500"	\$24.80	\$29.30
83375	83275	.075"	.225"	.500"	\$24.80	\$29.30
83378	83278	.078"	.234"	.500"	\$24.80	\$29.30
83390	83290	.090"	.270"	.600"	\$24.80	\$29.30
83393	83293	.093"	.279"	.600"	\$24.80	\$29.30
83300	83200	.100"	.300"	.600"	\$24.80	\$29.30
83312	83212	.125"	.375"	.600"	\$24.80	\$29.30

3-FLUTE MICRO END MILLS

3 FLUTE STUB LENGTH - SQUARE END

CARBIDE DECIMAL END MILLS - 1/8 DIA. SHANK

FLUTE LENGTH = 1.5 x DIA. - O.A.L. 1-1/2"

UNCOATED & **AlTiN COATED**



Not Coated	AlTiN Coated	Cutter Diameter	Length of Cut	Price Each	Price Each
83110	83510	.010"	.015"	\$18.50	\$22.50
83115	83515	.015"	.022"	\$16.00	\$20.00
83120	83520	.020"	.030"	\$15.50	\$19.50
83125	83525	.025"	.037"	\$14.50	\$18.50
83130	83530	.030"	.045"	\$14.50	\$18.50
83131	83531	.031"	.046"	\$14.50	\$18.50
83135	83535	.035"	.052"	\$12.50	\$16.50
83140	83540	.040"	.060"	\$12.50	\$16.50
83145	83545	.045"	.067"	\$12.50	\$16.50
83147	83547	.047"	.070"	\$12.50	\$16.50
83150	83550	.050"	.075"	\$12.50	\$16.50
83160	83560	.060"	.090"	\$12.50	\$16.50
83162	83562	.062"	.125"	\$11.95	\$15.95
83165	83565	.065"	.098"	\$11.95	\$15.95
83170	83570	.070"	.105"	\$11.95	\$15.95
83175	83575	.075"	.113"	\$11.95	\$15.95
83178	83578	.078"	.156"	\$11.95	\$15.95
83190	83590	.090"	.135"	\$11.95	\$15.95
83193	83593	.093"	.187"	\$11.95	\$15.95
83100	83500	.100"	.150"	\$11.95	\$15.95
83112	83512	.125"	.250"	\$11.95	\$15.95

3 FLT STUB LONG RCH - SQUARE END

1/8 DIA. SHK - FLT LGTH = 1.5 x DIA. - O.A.L. 1-1/2"

UNCOATED & **AlTiN - MINIMUM 3 TOOLS EACH SIZE**

Tools are custom manufactured to order and are nonreturnable.

**Shipped
Within 24-48
Hours**

Not Coated	AlTiN Coated	Cutter Diameter	Length of Cut	Reach From Tip	Price Each	Price Each
83615	83715	.015"	.022"	.100"	\$26.75	\$30.75
83620	83720	.020"	.030"	.120"	\$25.50	\$29.50
83625	83725	.025"	.037"	.150"	\$24.75	\$28.75
83630	83730	.030"	.045"	.180"	\$24.75	\$28.75
83631	83731	.031"	.046"	.183"	\$24.75	\$28.75
83635	83735	.035"	.052"	.210"	\$24.75	\$28.75
83640	83740	.040"	.060"	.220"	\$24.75	\$28.75
83645	83745	.045"	.067"	.270"	\$23.90	\$27.90
83647	83747	.047"	.070"	.280"	\$23.90	\$27.90
83650	83750	.050"	.075"	.300"	\$23.90	\$27.90
83660	83760	.060"	.090"	.330"	\$23.90	\$27.90
83662	83762	.062"	.125"	.360"	\$23.90	\$27.90
83665	83765	.065"	.098"	.375"	\$23.90	\$27.90
83670	83770	.070"	.105"	.390"	\$23.90	\$27.90
83675	83775	.075"	.113"	.420"	\$24.80	\$28.80
83678	83778	.078"	.156"	.450"	\$24.80	\$28.80
83690	83790	.090"	.135"	.540"	\$24.80	\$28.80
83693	83793	.093"	.187"	.560"	\$24.80	\$28.80
83600	83700	.100"	.150"	.600"	\$24.80	\$28.80
83612	83712	.125"	.250"	.600"	\$24.80	\$28.80

4-FLUTE DECIMAL CARBIDE END MILLS

MicroCUT



DECIMAL END MILLS - 4 FLUTE - .010" - .125"

SQUARE & BALL END - CARBIDE - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
84010	84010B	.010"	.030"	\$18.90	\$27.50
84012	84012B	.012"	.036"	\$18.90	\$27.50
84015	84015B	.015"	.045"	\$16.50	\$22.50
84018	84018B	.018"	.054"	\$16.50	\$22.50
84020	84020B	.020"	.060"	\$15.50	\$21.50
84022	84022B	.022"	.066"	\$15.50	\$21.50
84025	84025B	.025"	.075"	\$14.50	\$19.50
84027	84027B	.027"	.081"	\$14.50	\$19.50
84030	84030B	.030"	.090"	\$13.50	\$17.50
84031	84031B	.031"	.093"	\$13.50	\$17.50
84031L	84031LB	.031"	.125"	\$13.50	\$17.50
84035	84035B	.035"	.105"	\$12.50	\$16.50
84037	84037B	.037"	.111"	\$12.50	\$16.50
84039	84039B	.039"	.117"	\$12.50	\$16.50
84040	84040B	.040"	.120"	\$12.50	\$16.50
84042	84042B	.042"	.126"	\$12.50	\$16.50
84045	84045B	.045"	.135"	\$12.50	\$16.50
84047	84047B	.047"	.141"	\$12.50	\$16.50
84050	84050B	.050"	.150"	\$12.50	\$16.50
84052	84052B	.052"	.156"	\$12.50	\$16.50
84055	84055B	.055"	.165"	\$12.50	\$16.50
84057	84057B	.057"	.171"	\$12.50	\$16.50
84059	84059B	.059"	.177"	\$12.50	\$16.50
84060	84060B	.060"	.180"	\$11.75	\$15.75
84062	84062B	.062"	.186"	\$11.75	\$15.75
84062L	84062LB	.062"	.250"	\$11.75	\$15.75
84065	84065B	.065"	.195"	\$11.75	\$15.75
84067	84067B	.067"	.201"	\$11.75	\$15.75
84070	84070B	.070"	.210"	\$11.75	\$15.75
84072	84072B	.072"	.216"	\$11.75	\$15.75
84075	84075B	.075"	.225"	\$11.75	\$15.75
84078	84078B	.078"	.234"	\$11.75	\$15.75
84080	84080B	.080"	.240"	\$11.75	\$15.75
84085	84085B	.085"	.265"	\$11.75	\$15.75
84090	84090B	.090"	.270"	\$11.75	\$15.75
84093	84093B	.093"	.279"	\$11.75	\$15.75
84093L	84093LB	.093"	.375"	\$11.75	\$15.75
84095	84095B	.095"	.285"	\$11.75	\$15.75
84098	84098B	.098"	.294"	\$11.75	\$15.75
84100	84100B	.100"	.300"	\$11.75	\$15.75
84105	84105B	.105"	.315"	\$11.75	\$15.75
84110	84110B	.110"	.330"	\$11.75	\$15.75
84115	84115B	.115"	.345"	\$11.75	\$15.75
84118	84118B	.118"	.354"	\$11.75	\$15.75
84120	84120B	.120"	.360"	\$11.75	\$15.75
84125	84125B	.125"	.500"	\$11.75	\$15.75

LONG REACH 4-FLUTE END MILLS

Microcut



Neck is reduced
for clearance.

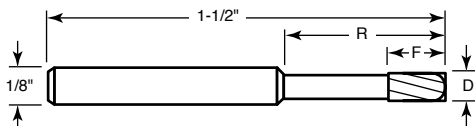


LONG REACH - 4-FLUTE

SQUARE END & BALL END - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
74010	74010B	.010"	.030"	.075"	\$34.75	\$45.50
74015	74015B	.015"	.045"	.125"	\$27.50	\$33.50
74020	74020B	.020"	.060"	.165"	\$26.50	\$32.50
74025	74025B	.025"	.075"	.205"	\$25.50	\$30.50
74030	74030B	.030"	.090"	.250"	\$24.50	\$28.50
74031	74031B	.031"	.125"	.250"	\$24.50	\$28.50
74035	74035B	.035"	.105"	.285"	\$24.50	\$28.50
74040	74040B	.040"	.120"	.350"	\$24.50	\$28.50
74045	74045B	.045"	.135"	.400"	\$24.50	\$28.50
74047	74047B	.047"	.141"	.400"	\$24.50	\$28.50
74050	74050B	.050"	.150"	.450"	\$24.50	\$28.50
74055	74055B	.055"	.165"	.450"	\$24.50	\$28.50
74060	74060B	.060"	.180"	.500"	\$24.50	\$28.50
74062	74062B	.062"	.250"	.500"	\$24.50	\$28.50
74065	74065B	.065"	.195"	.500"	\$24.50	\$28.50
74070	74070B	.070"	.210"	.500"	\$24.50	\$28.50
74075	74075B	.075"	.225"	.500"	\$24.50	\$28.50
74078	74078B	.078"	.234"	.500"	\$24.50	\$28.50
74080	74080B	.080"	.240"	.500"	\$24.50	\$28.50
74090	74090B	.090"	.270"	.600"	\$24.50	\$28.50
74093	74093B	.093"	.375"	.600"	\$24.50	\$28.50
74100	74100B	.100"	.300"	.600"	\$24.50	\$28.50

ORDER SPECIAL Square & Ball End LONG REACH MILLS



To order special long reach end mills please specify:

1. Specify: ☐ Square End or ☐ Ball End.
2. Diameter (D): _____
3. Flute Length (F): _____
4. Overall Reach (R): _____
5. Quantity (Minimum 6): _____
6. Specify: ☐ 2-Flute or ☐ 4-Flute.

**Special Reaches
Shipped
within
48 Hours!**

4-FLUTE DECIMAL AITiN END MILLS

Microcut



DECIMAL END MILLS - 4 FLUTE - .015" - .125"

AITiN COATED - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
88010	88010B	.010"	.030"	\$22.90	\$31.90
88012	88012B	.012"	.036"	\$22.90	\$31.90
88015	88015B	.015"	.045"	\$20.50	\$26.50
88018	88018B	.018"	.054"	\$20.50	\$26.50
88020	88020B	.020"	.060"	\$19.50	\$25.50
88022	88022B	.022"	.066"	\$19.50	\$25.50
88025	88025B	.025"	.075"	\$18.50	\$23.50
88027	88027B	.027"	.081"	\$18.50	\$23.50
88030	88030B	.030"	.090"	\$17.50	\$21.50
88031	88031B	.031"	.093"	\$17.50	\$21.50
88031L	88031LB	.031"	.125"	\$17.50	\$21.50
88035	88035B	.035"	.105"	\$16.50	\$20.50
88037	88037B	.037"	.111"	\$16.50	\$20.50
88039	88039B	.039"	.117"	\$16.50	\$20.50
88040	88040B	.040"	.120"	\$16.50	\$20.50
88042	88042B	.042"	.126"	\$16.50	\$20.50
88045	88045B	.045"	.135"	\$16.50	\$20.50
88047	88047B	.047"	.141"	\$16.50	\$20.50
88050	88050B	.050"	.150"	\$16.50	\$20.50
88052	88052B	.052"	.156"	\$16.50	\$20.50
88055	88055B	.055"	.165"	\$16.50	\$20.50
88057	88057B	.057"	.171"	\$16.50	\$20.50
88059	88059B	.059"	.177"	\$16.50	\$20.50
88060	88060B	.060"	.180"	\$15.75	\$19.75
88062	88062B	.062"	.186"	\$15.75	\$19.75
88062L	88062LB	.062"	.250"	\$15.75	\$19.75
88065	88065B	.065"	.195"	\$15.75	\$19.75
88067	88067B	.067"	.201"	\$15.75	\$19.75
88070	88070B	.070"	.210"	\$15.75	\$19.75
88072	88072B	.072"	.216"	\$15.75	\$19.75
88075	88075B	.075"	.225"	\$15.75	\$19.75
88078	88078B	.078"	.234"	\$15.75	\$19.75
88080	88080B	.080"	.240"	\$15.75	\$19.75
88085	88085B	.085"	.255"	\$15.75	\$19.75
88090	88090B	.090"	.270"	\$15.75	\$19.75
88093	88093B	.093"	.279"	\$15.75	\$19.75
88093L	88093LB	.093"	.375"	\$15.75	\$19.75
88095	88095B	.095"	.285"	\$15.75	\$19.75
88098	88098B	.098"	.294"	\$15.75	\$19.75
88100	88100B	.100"	.300"	\$15.75	\$19.75
88105	88105B	.105"	.315"	\$15.75	\$19.75
88110	88110B	.110"	.330"	\$15.75	\$19.75
88115	88115B	.115"	.345"	\$15.75	\$19.75
88118	88118B	.118"	.354"	\$15.75	\$19.75
88120	88120B	.120"	.360"	\$15.75	\$19.75
88125	88125B	.125"	.500"	\$15.75	\$19.75

LONG REACH 4-FLUTE AITiN END MILLS

Microcut



Neck is reduced
for clearance.

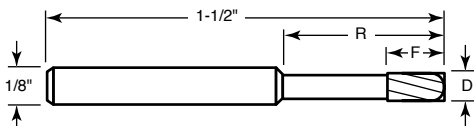
LONG REACH - 4-FLUTE

SQUARE END & BALL END - 1/8" DIA. SHANK - 1-1/2" O.A.L.

ALTiN COATED

Square End	Ball End	Cutter Dia.	Length of Cut	Reach From Tip	Square End	Ball End
74015TL	74015BTL	.015"	.045"	.125"	\$32.50	\$38.50
74020TL	74020BTL	.020"	.060"	.165"	\$30.50	\$36.50
74025TL	74025BTL	.025"	.075"	.205"	\$29.50	\$34.50
74030TL	74030BTL	.030"	.090"	.250"	\$29.50	\$34.50
74031TL	74031BTL	.031"	.125"	.250"	\$29.50	\$34.50
74035TL	74035BTL	.035"	.105"	.285"	\$29.50	\$34.50
74040TL	74040BTL	.040"	.120"	.350"	\$29.50	\$34.50
74045TL	74045BTL	.045"	.135"	.400"	\$28.50	\$33.50
74047TL	74047BTL	.047"	.141"	.400"	\$28.50	\$33.50
74050TL	74050BTL	.050"	.150"	.450"	\$28.50	\$33.50
74055TL	74055BTL	.055"	.165"	.450"	\$28.50	\$33.50
74060TL	74060BTL	.060"	.180"	.500"	\$28.50	\$33.50
74062TL	74062BTL	.062"	.250"	.500"	\$28.50	\$33.50
74065TL	74065BTL	.065"	.195"	.500"	\$28.50	\$33.50
74070TL	74070BTL	.070"	.210"	.500"	\$28.50	\$33.50
74075TL	74075BTL	.075"	.225"	.500"	\$28.50	\$33.50
74078TL	74078BTL	.078"	.234"	.500"	\$28.50	\$33.50
74080TL	74080BTL	.080"	.240"	.500"	\$28.50	\$33.50
74090TL	74090BTL	.090"	.270"	.600"	\$28.50	\$33.50
74093TL	74093BTL	.093"	.375"	.600"	\$28.50	\$33.50
74100TL	74100BTL	.100"	.300"	.600"	\$28.50	\$33.50

ORDER SPECIAL Square & Ball End LONG REACH MILLS



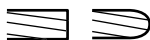
To order special long reach end mills please specify:

1. Specify: ☐ Square End or ☐ Ball End.
2. Diameter (D): _____
3. Flute Length (F): _____
4. Overall Reach (R): _____
5. Quantity (Minimum 6): _____
6. Specify: ☐ 2-Flute or ☐ 4-Flute.

**Special Reaches
Shipped
within
48 Hours!**

4-FLUTE STUB LENGTH DECIMAL MILLS

MicroCUT



STUB LENGTH

SQUARE & BALL END

CARBIDE DECIMAL END MILLS - 4 FLUTE - 1/8 DIA. SHANK
FLUTE LENGTH = 1.5 x DIA. OR AS SPECIFIED - O.A.L. 1.5
UNCOATED



TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
85010	85010B	.010"	.015"	\$18.75	\$26.75
85015	85015B	.015"	.022"	\$16.50	\$22.50
85020	85020B	.020"	.030"	\$15.50	\$19.50
85025	85025B	.025"	.037"	\$14.50	\$18.50
85030	85030B	.030"	.045"	\$14.50	\$18.50
85031	85031B	.031"	.046"	\$14.50	\$16.50
85035	85035B	.035"	.052"	\$12.50	\$16.50
85040	85040B	.040"	.060"	\$12.50	\$16.50
85045	85045B	.045"	.067"	\$12.50	\$16.50
85047	85047B	.047"	.070"	\$12.50	\$16.50
85050	85050B	.050"	.075"	\$12.50	\$16.50
85055	85055B	.055"	.082"	\$12.50	\$16.50
85060	85060B	.060"	.090"	\$12.50	\$16.50
85062	85062B	.062"	.093"	\$11.50	\$15.50
85065	85065B	.065"	.098"	\$11.50	\$15.50
85070	85070B	.070"	.105"	\$11.50	\$15.50
85075	85075B	.075"	.113"	\$11.50	\$15.50
85078	85078B	.078"	.117"	\$11.50	\$15.50
85080	85080B	.080"	.120"	\$11.50	\$15.50
85085	85085B	.085"	.128"	\$11.50	\$15.50
85090	85090B	.090"	.135"	\$11.50	\$15.50
85093	85093B	.093"	.140"	\$11.50	\$15.50
85100	85100B	.100"	.150"	\$11.50	\$15.50
85125	85125B	.125"	.250"	\$11.50	\$15.50

Special long reach end mills quoted on request.

Minimum 6 pieces per size.

Ships within 48 hours or less.

4-FLUTE STUB LENGTH LONG REACH

Microcut



STUB LENGTH LONG REACH

SQUARE & BALL END

CARBIDE DECIMAL END MILLS - 4 FLUTE

1/8 DIA. SHANK - 1-1/2" O.A.L.

MINIMUM 3 TOOLS EACH SIZE

UNCOATED



TOOL NUMBER		Cutter Diameter	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
76415	76415B	.015"	.022"	.100"	\$27.50	\$33.50
76420	76420B	.020"	.030"	.120"	\$26.50	\$31.50
76425	76425B	.025"	.037"	.150"	\$25.50	\$30.50
76430	76430B	.030"	.045"	.180"	\$25.50	\$29.50
76431	76431B	.031"	.046"	.183"	\$25.50	\$29.50
76435	76435B	.035"	.052"	.210"	\$24.50	\$29.50
76440	76440B	.040"	.060"	.220"	\$24.50	\$28.50
76445	76445B	.045"	.067"	.270"	\$24.50	\$28.50
76447	76447B	.047"	.070"	.280"	\$24.50	\$28.50
76450	76450B	.050"	.075"	.300"	\$24.50	\$28.50
76455	76455B	.055"	.082"	.330"	\$24.50	\$28.50
76460	76460B	.060"	.090"	.360"	\$24.50	\$27.50
76462	76462B	.062"	.093"	.375"	\$24.50	\$27.50
76465	76465B	.065"	.098"	.390"	\$24.50	\$27.50
76470	76470B	.070"	.105"	.420"	\$24.50	\$27.50
76475	76475B	.075"	.113"	.450"	\$24.50	\$27.50
76478	76478B	.078"	.117"	.470"	\$24.50	\$27.50
76480	76480B	.080"	.120"	.480"	\$24.50	\$27.50
76485	76485B	.085"	.127"	.510"	\$24.50	\$27.50
76490	76490B	.090"	.135"	.540"	\$24.50	\$27.50
76493	76493B	.093"	.140"	.560"	\$24.50	\$27.50
76400	76400B	.100"	.150"	.600"	\$24.50	\$27.50
76412	76412B	.125"	.250"	.600"	\$24.50	\$27.50

Special long reach end mills quoted on request. Minimum 6 pcs per size.

Ships within 48 hours or less.

Tools are custom manufactured to order and are nonreturnable.

New!! Express Service

Ships same day as ordered. Call for details, price and availability.

Minimum order 6 tools per size.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

21

4-FLUTE STUB LENGTH DECIMAL MILLS

Microcut



4 FLUTE STUB LENGTH

SQUARE & BALL END

CARBIDE DECIMAL END MILLS - 4 FLUTE

FLUTE LENGTH = 1.5 x DIA. OR AS SPECIFIED

1/8 DIA. SHANK - 1-1/2" O.A.L.

AITiN COATED



TOOL NUMBER		Cutter Diameter	Length of Cut	Price Each	Price Each
Square End	Ball End				
85010TL	85010BTL	.010"	.015"	\$22.75	\$32.75
85015TL	85015BTL	.015"	.022"	\$20.50	\$26.50
85020TL	85020BTL	.020"	.030"	\$19.50	\$24.50
85025TL	85025BTL	.025"	.037"	\$18.50	\$23.50
85030TL	85030BTL	.030"	.045"	\$18.50	\$22.50
85031TL	85031BTL	.031"	.046"	\$18.50	\$22.50
85035TL	85035BTL	.035"	.052"	\$16.50	\$20.50
85040TL	85040BTL	.040"	.060"	\$16.50	\$20.50
85045TL	85045BTL	.045"	.067"	\$16.50	\$20.50
85047TL	85047BTL	.047"	.070"	\$16.50	\$20.50
85050TL	85050BTL	.050"	.075"	\$16.50	\$20.50
85055TL	85055BTL	.055"	.082"	\$16.50	\$20.50
85060TL	85060BTL	.060"	.090"	\$15.50	\$19.50
85062TL	85062BTL	.062"	.093"	\$15.50	\$19.50
85065TL	85065BTL	.065"	.098"	\$15.50	\$19.50
85070TL	85070BTL	.070"	.105"	\$15.50	\$19.50
85075TL	85075BTL	.075"	.113"	\$15.50	\$19.50
85078TL	85078BTL	.078"	.117"	\$15.50	\$19.50
85080TL	85080BTL	.080"	.120"	\$15.50	\$19.50
85085TL	85085BTL	.085"	.128"	\$15.50	\$19.50
85090TL	85090BTL	.090"	.135"	\$15.50	\$19.50
85093TL	85093BTL	.093"	.140"	\$15.50	\$19.50
85100TL	85100BTL	.100"	.150"	\$15.50	\$19.50
85125TL	85125BTL	.125"	.250"	\$15.50	\$19.50

Special long reach end mills quoted on request.

Minimum 6 pieces per size.

Ships within 48 hours or less.

4-FLUTE STUB LENGTH LONG REACH

Microcut



STUB LENGTH LONG REACH

SQUARE END - BALL END

CARBIDE DECIMAL END MILLS - 4 FLUTE

1/8 DIA. SHANK - 1-1/2" O.A.L.

MINIMUM 3 TOOLS EACH SIZE

AITiN COATED



TOOL NUMBER		Cutter Diameter	Length of Cut	Reach From Tip	Price Each	Price Each
Square End	Ball End					
76515	76515B	.015"	.022"	.100"	\$31.50	\$37.50
76520	76520B	.020"	.030"	.120"	\$31.50	\$35.50
76525	76525B	.025"	.037"	.150"	\$29.50	\$34.50
76530	76530B	.030"	.045"	.180"	\$29.50	\$33.50
76531	76531B	.031"	.046"	.183"	\$29.50	\$33.50
76535	76535B	.035"	.052"	.210"	\$28.50	\$33.50
76540	76540B	.040"	.060"	.220"	\$28.50	\$32.50
76545	76545B	.045"	.067"	.270"	\$28.50	\$32.50
76547	76547B	.047"	.070"	.280"	\$28.50	\$32.50
76550	76550B	.050"	.075"	.300"	\$28.50	\$32.50
76555	76555B	.055"	.082"	.330"	\$28.50	\$32.50
76560	76560B	.060"	.090"	.360"	\$28.50	\$31.50
76562	76562B	.062"	.093"	.375"	\$28.50	\$31.50
76565	76565B	.065"	.098"	.390"	\$28.50	\$31.50
76570	76570B	.070"	.105"	.420"	\$28.50	\$31.50
76575	76575B	.075"	.113"	.450"	\$28.50	\$31.50
76578	76578B	.078"	.117"	.470"	\$28.50	\$31.50
76580	76580B	.080"	.120"	.480"	\$28.50	\$31.50
76585	76585B	.085"	.127"	.510"	\$28.50	\$31.50
76590	76590B	.090"	.135"	.540"	\$28.50	\$31.50
76593	76593B	.093"	.140"	.560"	\$28.50	\$31.50
76500	76500B	.100"	.150"	.600"	\$28.50	\$31.50
76512	76512B	.125"	.250"	.600"	\$28.50	\$31.50

Special long reach end mills quoted on request. Minimum 6 pcs per size.

Ships within 48 hours or less.

Tools are custom manufactured to order and are nonreturnable.

New!! Express Service

Ships same day as ordered. Call for details, price and availability.

Minimum order 6 tools per size.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

23

4-FLUTE TiCN CARBIDE END MILLS

Microcut

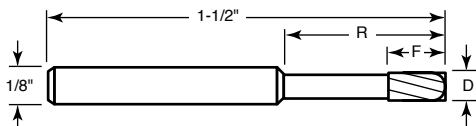


DECIMAL END MILLS - 4 FLUTE - .015" - .125"

TiCN COATED - 1/8" DIA. SHANK - 1-1/2" O.A.L.

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
86015	86015B	.015"	.045"	\$20.25	\$26.25
86020	86020B	.020"	.060"	\$19.25	\$25.25
86025	86025B	.025"	.075"	\$18.25	\$23.25
86030	86030B	.030"	.090"	\$17.25	\$21.25
86031	86031B	.031"	.093"	\$17.25	\$21.25
86031L	86031LB	.031"	.125"	\$17.25	\$21.25
86035	86035B	.035"	.105"	\$16.25	\$20.25
86040	86040B	.040"	.120"	\$16.25	\$20.25
86045	86045B	.045"	.135"	\$16.25	\$20.25
86047	86047B	.047"	.141"	\$16.25	\$20.25
86050	86050B	.050"	.150"	\$16.25	\$20.25
86055	86055B	.055"	.165"	\$16.25	\$20.25
86060	86060B	.060"	.180"	\$15.50	\$19.50
86062	86062B	.062"	.186"	\$15.50	\$19.50
86062L	86062LB	.062"	.250"	\$15.50	\$19.50
86065	86065B	.065"	.195"	\$15.50	\$19.50
86070	86070B	.070"	.210"	\$15.50	\$19.50
86075	86075B	.075"	.225"	\$15.50	\$19.50
86078	86078B	.078"	.234"	\$15.50	\$19.50
86080	86080B	.080"	.240"	\$15.50	\$19.50
86090	86090B	.090"	.270"	\$15.50	\$19.50
86093	86093B	.093"	.279"	\$15.50	\$19.50
86093L	86093LB	.093"	.375"	\$15.50	\$19.50
86100	86100B	.100"	.300"	\$15.50	\$19.50
86125	86125B	.125"	.500"	\$15.50	\$19.50

ORDER SPECIAL Square & Ball End LONG REACH MILLS



To order special long reach end mills please specify:

1. Specify: ☐ Square End or ☐ Ball End.
2. Diameter (D): _____
3. Flute Length (F): _____
4. Overall Reach (R): _____
5. Quantity (Minimum 6): _____
6. Specify: ☐ 2-Flute or ☐ 4-Flute.

**Special Reaches
Shipped
within
48 Hours!**

END MILL EXTENSION HOLDERS

Microcut

ACCU-HOLD END MILL EXTENSION HOLDERS I.D. CONCENTRIC WITHIN .0003"- I.D. HOLE SIZE +.00015/-0



Tool Number	I.D. Hole Size	Shank Diameter	O.A.L.	Price Each
ACH1250	.1250"	3/8"	3-1/4"	\$169.00
ACH1250L	.1250"	3/8"	6"	\$239.00
ACH1875	.1875"	1/2"	3-1/2"	\$169.00
ACH1875L	.1875"	1/2"	5"	\$179.00
ACH2500	.2500"	5/8"	4-1/4"	\$189.00
ACH2500L	.2500"	5/8"	6"	\$195.00

ACCU-HOLD END MILL EXTENSION HOLDERS MILLIMETER SIZES I.D. CONCENTRIC WITHIN .0003"- I.D. HOLE SIZE +.00015/-0



ACCU-HOLD EXTENSION HOLDERS - MILLIMETER SIZES

Tool Number	I.D. Hole Size	Shank Diameter	O.A.L.	Price Each
ACH1181	.1181" (3mm)	3/8"	3-1/4"	\$179.00
ACH1575	.1575" (4mm)	1/2"	3-1/2"	\$189.00
ACH2362	.2362" (6mm)	5/8"	4-1/4"	\$199.00

ABRASION RESISTANT TOOL COATINGS



TiCN

Cutting carbon steel, alloy steel and cast iron; cold forming & stamping tools.



ZrN

Hard coating for machining a variety of non-ferrous materials.



AlTiN

High performance coating for dry and semi-dry machining of all aerospace materials at high speeds.



Diamond

(Amorphous) Thin film coating for graphite, nonferrous materials and epoxy.

STANDARD FRACTIONAL END MILLS

Microcut

STANDARD - FRACTIONAL- 1/64" to 3/4"

2 FLUTE - CARBIDE END MILLS - **SQUARE END** & **BALL END**
UNCOATED



2 FLUTE

TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
52015	52015B	1/64"	3/64"	1/8"	1-1/2"	\$15.95	\$21.95
52031	52031B	1/32"	3/32"	1/8"	1-1/2"	\$9.50	\$11.50
52047	52047B	3/64"	1/8"	1/8"	1-1/2"	\$9.50	\$11.50
52062	52062B	1/16"	1/4"	1/8"	1-1/2"	\$9.50	\$11.50
52078	52078B	5/64"	3/16"	1/8"	1-1/2"	\$9.50	\$11.50
52093	52093B	3/32"	3/8"	1/8"	1-1/2"	\$9.50	\$11.50
52109	52109B	7/64"	3/8"	1/8"	1-1/2"	\$9.50	\$11.50
52125	52125B	1/8"	1/2"	1/8"	1-1/2"	\$9.50	\$11.50
52140	52140B	9/64"	9/16"	3/16"	2"	\$10.95	\$13.95
52156	52156B	5/32"	9/16"	3/16"	2"	\$10.95	\$13.95
52187	52187B	3/16"	5/8"	3/16"	2"	\$10.95	\$13.95
52250	52250B	1/4"	3/4"	1/4"	2-1/2"	\$11.95	\$15.95
52312	52312B	5/16"	13/16"	5/16"	2-1/2"	\$15.95	\$19.95
52375	52375B	3/8"	1"	3/8"	2-1/2"	\$18.95	\$22.95
52500	52500B	1/2"	1"	1/2"	3"	\$31.50	\$41.50

4 FLUTE - CARBIDE END MILLS - **SQUARE END** & **BALL END**



4 FLUTE

TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
54015	54015B	1/64"	3/64"	1/8"	1-1/2"	\$15.95	\$21.95
54031	54031B	1/32"	3/32"	1/8"	1-1/2"	\$9.50	\$11.50
54047	54047B	3/64"	1/8"	1/8"	1-1/2"	\$9.50	\$11.50
54062	54062B	1/16"	1/4"	1/8"	1-1/2"	\$9.50	\$11.50
54078	54078B	5/64"	3/16"	1/8"	1-1/2"	\$9.50	\$11.50
54093	54093B	3/32"	3/8"	1/8"	1-1/2"	\$9.50	\$11.50
54109	54109B	7/64"	3/8"	1/8"	1-1/2"	\$9.50	\$11.50
54125	54125B	1/8"	1/2"	1/8"	1-1/2"	\$9.50	\$11.50
54140	54140B	9/64"	9/16"	3/16"	2"	\$10.95	\$13.95
54156	54156B	5/32"	9/16"	3/16"	2"	\$10.95	\$13.95
54187	54187B	3/16"	5/8"	3/16"	2"	\$10.95	\$13.95
54250	54250B	1/4"	3/4"	1/4"	2-1/2"	\$11.95	\$15.95
54312	54312B	5/16"	13/16"	5/16"	2-1/2"	\$15.95	\$19.95
54375	54375B	3/8"	1"	3/8"	2-1/2"	\$18.95	\$22.95
54500	54500B	1/2"	1"	1/2"	3"	\$31.50	\$41.50
54625	54625B	5/8"	1-1/4"	5/8"	3-1/4"	\$61.95	\$72.95
54750	54750B	3/4"	1-1/2"	3/4"	4"	\$84.50	\$99.50

STANDARD FRACTIONAL END MILLS

Microcut

STANDARD - FRACTIONAL- 1/64" to 3/4"

2 FLUTE - CARBIDE END MILLS - SQUARE END & BALL END

**AITiN
COATED**



2 FLUTE

TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
52015TL	52015BTL	1/64"	3/64"	1/8"	1-1/2"	\$19.95	\$25.95
52031TL	52031BTL	1/32"	3/32"	1/8"	1-1/2"	\$13.95	\$15.95
52047TL	52047BTL	3/64"	1/8"	1/8"	1-1/2"	\$12.95	\$14.95
52062TL	52062BTL	1/16"	1/4"	1/8"	1-1/2"	\$12.95	\$14.95
52078TL	52078BTL	5/64"	3/16"	1/8"	1-1/2"	\$12.95	\$14.95
52093TL	52093BTL	3/32"	3/8"	1/8"	1-1/2"	\$12.95	\$14.95
52109TL	52109BTL	7/64"	3/8"	1/8"	1-1/2"	\$12.95	\$14.95
52125TL	52125BTL	1/8"	1/2"	1/8"	1-1/2"	\$12.95	\$14.95
52140TL	52140BTL	9/64"	9/16"	3/16"	2"	\$14.95	\$18.95
52156TL	52156BTL	5/32"	9/16"	3/16"	2"	\$14.95	\$18.95
52187TL	52187BTL	3/16"	5/8"	3/16"	2"	\$14.95	\$18.95
52250TL	52250BTL	1/4"	3/4"	1/4"	2-1/2"	\$16.95	\$21.95
52312TL	52312BTL	5/16"	13/16"	5/16"	2-1/2"	\$19.95	\$26.95
52375TL	52375BTL	3/8"	1"	3/8"	2-1/2"	\$22.95	\$31.95
52500TL	52500BTL	1/2"	1"	1/2"	3"	\$39.95	\$56.95

4 FLUTE - CARBIDE END MILLS - SQUARE END & BALL END

**AITiN
COATED**



4 FLUTE

TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
54015TL	54015BTL	1/64"	3/64"	1/8"	1-1/2"	\$19.95	\$25.95
54031TL	54031BTL	1/32"	3/32"	1/8"	1-1/2"	\$13.95	\$15.95
54047TL	54047BTL	3/64"	1/8"	1/8"	1-1/2"	\$12.95	\$14.95
54062TL	54062BTL	1/16"	1/4"	1/8"	1-1/2"	\$12.95	\$14.95
54078TL	54078BTL	5/64"	3/16"	1/8"	1-1/2"	\$12.95	\$14.95
54093TL	54093BTL	3/32"	3/8"	1/8"	1-1/2"	\$12.95	\$14.95
54109TL	54109BTL	7/64"	3/8"	1/8"	1-1/2"	\$12.95	\$14.95
54125TL	54125BTL	1/8"	1/2"	1/8"	1-1/2"	\$12.95	\$14.95
54140TL	54140BTL	9/64"	9/16"	3/16"	2"	\$14.95	\$18.95
54156TL	54156BTL	5/32"	9/16"	3/16"	2"	\$14.95	\$18.95
54187TL	54187BTL	3/16"	5/8"	3/16"	2"	\$14.95	\$18.95
54250TL	54250BTL	1/4"	3/4"	1/4"	2-1/2"	\$16.95	\$21.95
54312TL	54312BTL	5/16"	13/16"	5/16"	2-1/2"	\$19.95	\$26.95
54375TL	54375BTL	3/8"	1"	3/8"	2-1/2"	\$22.95	\$31.95
54500TL	54500BTL	1/2"	1"	1/2"	3"	\$39.95	\$56.95
54625TL	54625BTL	5/8"	1-1/4"	5/8"	3-1/4"	\$82.95	\$94.95
54750TL	54750BTL	3/4"	1-1/2"	3/4"	4"	\$119.50	\$139.50

MINIATURE METRIC END MILLS

Microcut

MINIATURE METRIC SIZES / METRIC SHANKS



MICROGRAIN CARBIDE END MILLS

2 FLUTE - SQUARE END & BALL END

TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Shank Dia. (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51202	-	0.25	0.75	3	38	\$23.50	-
51205	-	0.50	1.50	3	38	\$20.50	-
51207	-	0.75	2.25	3	38	\$17.50	-
51210	51210B	1.0	3.0	3	38	\$13.50	\$17.50
51215	51215B	1.5	6.0	3	38	\$13.50	\$17.50
51220	51220B	2.0	9.0	3	38	\$12.50	\$16.50
51225	51225B	2.5	12.0	3	38	\$12.50	\$16.50
51230	51230B	3.0	12.0	3	38	\$12.50	\$16.50

4 FLUTE - SQUARE END & BALL END



TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Shank Dia. (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51402	-	0.25	0.75	3	38	\$23.50	-
51405	-	0.50	1.50	3	38	\$20.50	-
51407	-	0.75	2.25	3	38	\$17.50	-
51410	51410B	1.0	3.0	3	38	\$13.50	\$17.50
51415	51415B	1.5	6.0	3	38	\$13.50	\$17.50
51420	51420B	2.0	9.0	3	38	\$12.50	\$16.50
51425	51425B	2.5	12.0	3	38	\$12.50	\$16.50
51430	51430B	3.0	12.0	3	38	\$12.50	\$16.50
51435	51435B	3.5	12.0	4	51	\$13.95	\$17.95
51440	51440B	4.0	14.0	4	51	\$13.95	\$17.95
51445	51445B	4.5	14.0	5	51	\$17.95	\$22.95
51450	51450B	5.0	20.0	5	51	\$17.95	\$22.95
51460	51460B	6.0	20.0	6	63	\$19.95	\$25.95

Most Miniature metric cutting diameters are also available on 1/8" diameter shanks. Call for exact specifications.

EXTENSION HOLDERS - MILLIMETER SIZES



See Metric End Mill Extension Holders on page 25.

MINIATURE METRIC END MILLS - AITiN

Microcut

MINIATURE METRIC SIZES / METRIC SHANKS

AITiN COATED

MICROGRAIN CARBIDE END MILLS

2 FLUTE - SQUARE END & BALL END



TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Shank Dia. (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51302	-	0.25	0.75	3	38	\$28.50	-
51305	-	0.50	1.50	3	38	\$24.50	-
51307	-	0.75	2.25	3	38	\$21.50	-
51310	51310B	1.0	3.0	3	38	\$17.50	\$21.50
51315	51315B	1.5	6.0	3	38	\$17.50	\$21.50
51320	51320B	2.0	9.0	3	38	\$16.50	\$20.50
51325	51325B	2.5	12.0	3	38	\$16.50	\$20.50
51330	51330B	3.0	12.0	3	38	\$16.50	\$20.50

4 FLUTE - SQUARE END & BALL END

AITiN COATED



TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Shank Dia. (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51502	-	0.25	0.75	3	38	\$28.50	-
51505	-	0.50	1.50	3	38	\$24.50	-
51507	-	0.75	2.25	3	38	\$21.50	-
51510	51510B	1.0	3.0	3	38	\$17.50	\$21.50
51515	51515B	1.5	6.0	3	38	\$17.50	\$21.50
51520	51520B	2.0	9.0	3	38	\$16.50	\$20.50
51525	51525B	2.5	12.0	3	38	\$16.50	\$20.50
51530	51530B	3.0	12.0	3	38	\$16.50	\$20.50
51535	51535B	3.5	12.0	4	51	\$17.95	\$21.95
51540	51540B	4.0	14.0	4	51	\$17.95	\$21.95
51545	51545B	4.5	14.0	5	51	\$18.95	\$22.95
51550	51550B	5.0	20.0	5	51	\$18.95	\$22.95
51560	51560B	6.0	20.0	6	63	\$24.95	\$26.95

Most Miniature metric cutting diameters are also available on 1/8" diameter shanks. Call for exact specifications.

See Metric End Mill Extension Holders on page 25.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

METRIC LONG REACH END MILLS

METRIC LONG REACH ON METRIC SHANKS

MICROGRAIN CARBIDE END MILLS - 3mm SHANK

2 FLUTE - SQUARE END & BALL END

UNCOATED



Shipped
Within 24-48
Hours

Shipped within 48 hours. Minimum order 3 tools each size.

Tools are custom manufactured to order and are nonreturnable.

TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Reach from Tip (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51810	51810B	1	3	9	38	\$25.50	\$29.50
51815	51815B	1.5	6	12	38	\$25.50	\$29.50
51820	51820B	2	9	15	38	\$26.50	\$30.50
51825	51825B	2.5	12	16	38	\$26.50	\$30.50
51830	51830B	3	12	16	38	\$26.50	\$30.50

4 FLUTE - SQUARE END & BALL END

TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Reach from Tip (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51910	51910B	1	3	9	38	\$25.50	\$29.50
51915	51915B	1.5	6	12	38	\$25.50	\$29.50
51920	51920B	2	9	15	38	\$26.50	\$30.50
51925	51925B	2.5	12	16	38	\$26.50	\$30.50
51930	51930B	3	12	16	38	\$26.50	\$30.50

METRIC LONG REACH ON METRIC SHANKS

MICROGRAIN CARBIDE END MILLS - 3mm SHANK

2 FLUTE - SQUARE END & BALL END

AITiN COATED



Shipped
Within 24-48
Hours

Shipped within 48 hours. Minimum order 3 tools each size.

Tools are custom manufactured to order and are nonreturnable.

TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Reach from Tip (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51810TL	51810BTL	1	3	9	38	\$29.50	\$33.50
51815TL	51815BTL	1.5	6	12	38	\$29.50	\$33.50
51820TL	51820BTL	2	9	15	38	\$30.50	\$34.50
51825TL	51825BTL	2.5	12	16	38	\$30.50	\$34.50
51830TL	51830BTL	3	12	16	38	\$30.50	\$34.50

4 FLUTE - SQUARE END & BALL END

TOOL NUMBER		Cutter Dia. (mm)	Length of Cut (mm)	Reach from Tip (mm)	O.A.L. (mm)	PRICE EACH	
Square End	Ball End					Square End	Ball End
51910TL	51910BTL	1	3	9	38	\$29.50	\$33.50
51915TL	51915BTL	1.5	6	12	38	\$29.50	\$33.50
51920TL	51920BTL	2	9	15	38	\$30.50	\$34.50
51925TL	51925BTL	2.5	12	16	38	\$30.50	\$34.50
51930TL	51930BTL	3	12	16	38	\$30.50	\$34.50

Other metric long reach sizes, quoted on request. Most metric cutting diameters available on 1/8" diameter shanks. Call for exact specifications.

EXTRA LONG REACH & LONG SHANK

Microcut

EXTRA LONG REACH & LONG SHANK FRACTIONAL 1/8" to 1/2"

2 FLUTE - CARBIDE END MILLS

SQUARE END



AITiN COATED

Neck is reduced for clearance.

Tool Number	Cutter Diameter	Length of Cut	Reach From Tip	Overall Length	Shank Diameter	Price Each
55125	1/8"	3/4"	1-1/2"	3"	1/8"	\$34.50
55187	3/16"	1"	2-5/8"	4"	3/16"	\$38.75
55250	1/4"	1-1/2"	4-1/4"	6"	1/4"	\$48.50
55312	5/16"	1-1/2"	4-1/4"	6"	5/16"	\$66.90
55375	3/8"	1-1/2"	4-3/8"	6"	3/8"	\$76.75
55500	1/2"	1-1/2"	4"	6"	1/2"	\$98.50

2 FLUTE - CARBIDE END MILLS

BALL END



AITiN COATED

Neck is reduced for clearance.

Tool Number	Cutter Diameter	Length of Cut	Reach From Tip	Overall Length	Shank Diameter	Price Each
55125B	1/8"	3/4"	1-1/2"	3"	1/8"	\$37.50
55187B	3/16"	1"	2-5/8"	4"	3/16"	\$42.75
55250B	1/4"	1-1/2"	4-1/4"	6"	1/4"	\$54.50
55312B	5/16"	1-1/2"	4-1/4"	6"	5/16"	\$72.90
55375B	3/8"	1-1/2"	4-3/8"	6"	3/8"	\$84.75
55500B	1/2"	1-1/2"	4"	6"	1/2"	\$106.50

EXTRA LONG REACH & LONG SHANK FRACTIONAL 1/8" to 1/2"

4 FLUTE - CARBIDE END MILLS

SQUARE END



AITiN COATED

Neck is reduced for clearance.

Tool Number	Cutter Diameter	Length of Cut	Reach From Tip	Overall Length	Shank Diameter	Price Each
56125	1/8"	3/4"	1-1/2"	3"	1/8"	\$34.50
56187	3/16"	1"	2-5/8"	4"	3/16"	\$38.75
56250	1/4"	1-1/2"	4-1/4"	6"	1/4"	\$48.50
56312	5/16"	1-1/2"	4-1/4"	6"	5/16"	\$66.90
56375	3/8"	1-1/2"	4-3/8"	6"	3/8"	\$76.75
56500	1/2"	1-1/2"	4"	6"	1/2"	\$98.50

4 FLUTE

BALL END



AITiN COATED

Neck is reduced for clearance.

Tool Number	Cutter Diameter	Length of Cut	Reach From Tip	Overall Length	Shank Diameter	Price Each
56125B	1/8"	3/4"	1-1/2"	3"	1/8"	\$37.50
56187B	3/16"	1"	2-5/8"	4"	3/16"	\$42.75
56250B	1/4"	1-1/2"	4-1/4"	6"	1/4"	\$54.50
56312B	5/16"	1-1/2"	4-1/4"	6"	5/16"	\$72.90
56375B	3/8"	1-1/2"	4-3/8"	6"	3/8"	\$84.75
56500B	1/2"	1-1/2"	4"	6"	1/2"	\$106.50

LONG FLUTE - LONG SHANK END MILLS

LONG FLUTE - LONG SHANK - 1/64" to 1/2"

4 FLUTE - CARBIDE END MILLS - **SQUARE END** & **BALL END**



TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
LF4015	LF4015B	.015"(1/64)	.075"	1/8"	2-1/2"	\$23.95	\$27.95
LF4020	LF4020B	.020"	.100"	1/8"	2-1/2"	\$22.50	\$26.50
LF4025	LF4025B	.025"	.125"	1/8"	2-1/2"	\$21.50	\$25.50
LF4030	LF4030B	.030"	.150"	1/8"	2-1/2"	\$20.50	\$24.50
LF4031	LF4031B	.031"(1/32)	.150"	1/8"	2-1/2"	\$20.50	\$24.50
LF4031L	LF4031LB	.031"(1/32)	.250"	1/8"	2-1/2"	\$39.50	\$44.50
LF4035	LF4035B	.035"	.175"	1/8"	2-1/2"	\$20.50	\$23.50
LF4040	LF4040B	.040"	.200"	1/8"	2-1/2"	\$20.50	\$23.50
LF4045	LF4045B	.045"	.250"	1/8"	2-1/2"	\$20.50	\$23.50
LF4047	LF4047B	.047"(3/64)	.250"	1/8"	2-1/2"	\$20.50	\$23.50
LF4047L	LF4047LB	.047"(3/64)	.375"	1/8"	2-1/2"	\$33.50	\$37.50
LF4050	LF4050B	.050"	.300"	1/8"	2-1/2"	\$20.50	\$23.50
LF4055	LF4055B	.055"	.375"	1/8"	2-1/2"	\$20.50	\$23.50
LF4060	LF4060B	.060"	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4062S	LF4062SB	.062"(1/16)	.312"	1/8"	2-1/2"	\$19.00	\$22.00
LF4062	LF4062B	.062"(1/16)	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4062L	LF4062LB	.062"(1/16)	.750"	1/8"	2-1/2"	\$35.50	\$39.50
LF4065	LF4065B	.065"	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4070	LF4070B	.070"	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4075	LF4075B	.075"	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4075L	LF4075LB	.075"	.750"	1/8"	2-1/2"	\$32.50	\$36.50
LF4078	LF4078B	.078"(5/64)	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4078L	LF4078LB	.078"(5/64)	.750"	1/8"	2-1/2"	\$32.50	\$36.50
LF4090	LF4090B	.090"	.500"	1/8"	2-1/2"	\$20.50	\$23.50
LF4093	LF4093B	.093"(3/32)	.500"	1/8"	2-1/2"	\$19.00	\$22.00
LF4093L	LF4093LB	.093"(3/32)	.750"	1/8"	2-1/2"	\$24.50	\$28.50
LF4100	LF4100B	.100"	.625"	1/8"	2-1/2"	\$20.50	\$23.50
LF4125	LF4125B	1/8"	.750"	1/8"	3"	\$19.00	\$22.00
LF4125L	LF4125LB	1/8"	1.000"	1/8"	3"	\$19.95	\$22.95
LF4187	LF4187B	3/16"	1.125"	3/16"	3"	\$19.50	\$22.50
LF4250	LF4250B	1/4"	1.125"	1/4"	3"	\$21.50	\$24.75
LF4250L	LF4250LB	1/4"	1.500"	1/4"	4"	\$22.50	\$25.75
LF4312	LF4312B	5/16"	1.625"	5/16"	4"	\$29.75	\$33.95
LF4375	LF4375B	3/8"	1.125"	3/8"	3"	\$27.95	\$33.95
LF4375L	LF4375LB	3/8"	1.750"	3/8"	4"	\$33.50	\$38.95
LF4500	LF4500B	1/2"	2.000"	1/2"	4"	\$45.75	\$52.50

LONG FLUTE - LONG SHANK - LONG REACH

Microcut



LONG FLUTE - LONG SHANK - LONG REACH

4 FLUTE - CARBIDE END MILLS - SQUARE END & BALL END

1/8" SHANK - .015" TO .125"

UNCOATED



**Shipped
Within 24-48
Hours**

TOOL NUMBER		Cutter Dia.	Length of Cut	Length Reach	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
LF3015	LF3015B	.015" (1/64)	.075"	.150"	2-1/2"	\$30.50	\$36.50
LF3020	LF3020B	.020"	.100"	.200"	2-1/2"	\$29.50	\$34.50
LF3025	LF3025B	.025"	.125"	.250"	2-1/2"	\$28.50	\$32.75
LF3030	LF3030B	.030"	.150"	.250"	2-1/2"	\$27.50	\$31.50
LF3031	LF3031B	.031" (1/32)	.150"	.250"	2-1/2"	\$27.50	\$31.50
LF3031L	LF3031LB	.031" (1/32)	.150"	.300"	2-1/2"	\$32.50	\$35.50
LF3035	LF3035B	.035"	.175"	.300"	2-1/2"	\$27.50	\$31.50
LF3040	LF3040B	.040"	.200"	.350"	2-1/2"	\$27.50	\$31.50
LF3045	LF3045B	.045"	.250"	.400"	2-1/2"	\$26.75	\$29.75
LF3047	LF3047B	.047" (3/64)	.250"	.400"	2-1/2"	\$26.75	\$29.75
LF3047L	LF3047LB	.047" (3/64)	.250"	.500"	2-1/2"	\$30.75	\$33.75
LF3050	LF3050B	.050"	.300"	.500"	2-1/2"	\$26.75	\$29.75
LF3055	LF3055B	.055"	.375"	.600"	2-1/2"	\$26.75	\$29.75
LF3060	LF3060B	.060"	.500"	.750"	2-1/2"	\$28.75	\$31.75
LF3060L	LF3060LB	.060"	.500"	1.00"	2-1/2"	\$34.75	\$37.75
LF3062	LF3062B	.062" (1/16)	.500"	.750"	2-1/2"	\$28.75	\$32.75
LF3062L	LF3062LB	.062" (1/16)	.500"	1.00"	2-1/2"	\$34.75	\$37.75
LF3065	LF3065B	.065"	.500"	.750"	2-1/2"	\$28.75	\$31.75
LF3070	LF3070B	.070"	.500"	.750"	2-1/2"	\$28.75	\$31.75
LF3075	LF3075B	.075"	.500"	.750"	2-1/2"	\$26.75	\$29.75
LF3078	LF3078B	.078" (5/64)	.500"	.750"	2-1/2"	\$26.75	\$29.75
LF3078L	LF3078LB	.078" (5/64)	.500"	1.00"	2-1/2"	\$34.75	\$37.75
LF3090	LF3090B	.090"	.500"	1.00"	2-1/2"	\$31.50	\$35.50
LF3093	LF3093B	.093" (3/32)	.500"	1.00"	2-1/2"	\$31.50	\$35.50
LF3125	LF3125B	.125" (1/8)	.750"	1.25"	3"	\$27.50	\$31.50
LF3125L	LF3125LB	.125" (1/8)	1.00"	1.50"	3"	\$29.50	\$33.50

Tools are custom manufactured to order and are nonreturnable.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

33

LONG FLUTE - LONG SHANK AITiN

MicroCUT

LONG FLUTE - LONG SHANK - .015" to .250"

4 FLUTE - CARBIDE END MILLS - **SQUARE END** & **BALL END**



AITiN COATED

TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
LF5015	LF5015B	.015" (1/64)	.075"	\$29.95	\$33.95
LF5020	LF5020B	.020"	.100"	\$27.50	\$30.50
LF5025	LF5025B	.025"	.125"	\$25.50	\$29.50
LF5030	LF5030B	.030"	.150"	\$24.50	\$28.50
LF5031	LF5031B	.031" (1/32)	.150"	\$24.50	\$28.50
LF5031L	LF5031LB	.031" (1/32)	.250"	\$43.50	\$49.50
LF5035	LF5035B	.035"	.175"	\$24.50	\$27.50
LF5040	LF5040B	.040"	.200"	\$24.50	\$27.50
LF5045	LF5045B	.045"	.250"	\$24.50	\$27.50
LF5047	LF5047B	.047" (3/64)	.250"	\$24.50	\$27.50
LF5047L	LF5047LB	.047" (3/64)	.375"	\$37.50	\$41.50
LF5050	LF5050B	.050"	.300"	\$24.50	\$27.50
LF5055	LF5055B	.055"	.375"	\$24.50	\$27.50
LF5060	LF5060B	.060"	.500"	\$24.50	\$27.50
LF5062S	LF5062SB	.062" (1/16)	.312"	\$23.00	\$26.00
LF5062	LF5062B	.062" (1/16)	.500"	\$24.50	\$27.50
LF5062L	LF5062LB	.062" (1/16)	.750"	\$39.50	\$43.50
LF5065	LF5065B	.065"	.500"	\$24.50	\$27.50
LF5070	LF5070B	.070"	.500"	\$24.50	\$27.50
LF5075	LF5075B	.075"	.500"	\$24.50	\$27.50
LF5075L	LF5075LB	.075"	.750"	\$31.50	\$36.50
LF5078	LF5078B	.078" (5/64)	.500"	\$24.50	\$27.50
LF5078L	LF5078LB	.078" (5/64)	.750"	\$36.50	\$40.50
LF5090	LF5090B	.090"	.500"	\$24.50	\$27.50
LF5093	LF5093B	.093" (3/32)	.500"	\$23.00	\$26.00
LF5093L	LF5093LB	.093" (3/32)	.750"	\$28.50	\$32.50
LF5100	LF5100B	.100"	.625"	\$24.50	\$27.50
LF5125	LF5125B	.125"	.750"	\$23.00	\$26.00
LF5125L	LF5125LB	.125"	1.000"	\$23.95	\$26.95
LF5187	LF5187B	3/16"	1.125"	\$23.75	\$26.75
LF5250	LF5250B	1/4"	1.125"	\$27.50	\$31.50
LF5250L	LF5250LB	1/4"	1.500"	\$28.50	\$32.50

LONG FLUTE, SHANK & REACH - AITiN

Microcut



LONG FLUTE - LONG SHANK - LONG REACH

4 FLUTE - CARBIDE END MILLS - SQUARE END & BALL END

1/8" SHANK - .015" TO .125"

AITiN COATED



TOOL NUMBER		Cutter Dia.	Length of Cut	Length Reach	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
LF6015	LF6015B	.015"(1/64)	.075"	.150"	2-1/2"	\$34.50	\$40.50
LF6020	LF6020B	.020"	.100"	.200"	2-1/2"	\$33.50	\$38.50
LF6025	LF6025B	.025"	.125"	.250"	2-1/2"	\$32.50	\$36.75
LF6030	LF6030B	.030"	.150"	.250"	2-1/2"	\$31.50	\$35.50
LF6031	LF6031B	.031"(1/32)	.150"	.250"	2-1/2"	\$31.50	\$35.50
LF6031L	LF6031LB	.031"(1/32)	.150"	.300"	2-1/2"	\$34.50	\$38.50
LF6035	LF6035B	.035"	.175"	.300"	2-1/2"	\$31.50	\$35.50
LF6040	LF6040B	.040"	.200"	.350"	2-1/2"	\$31.50	\$35.50
LF6045	LF6045B	.045"	.250"	.400"	2-1/2"	\$30.75	\$34.75
LF6047	LF6047B	.047"(3/64)	.250"	.400"	2-1/2"	\$30.75	\$34.75
LF6047L	LF6047LB	.047"(3/64)	.250"	.500"	2-1/2"	\$34.75	\$37.75
LF6050	LF6050B	.050"	.300"	.500"	2-1/2"	\$30.75	\$34.75
LF6055	LF6055B	.055"	.375"	.600"	2-1/2"	\$30.75	\$34.75
LF6060	LF6060B	.060"	.500"	.750"	2-1/2"	\$32.75	\$36.75
LF6060L	LF6060LB	.060"	.500"	1.00"	2-1/2"	\$38.75	\$42.75
LF6062	LF6062B	.062"(1/16)	.500"	.750"	2-1/2"	\$32.75	\$36.75
LF6062L	LF6062LB	.062"(1/16)	.500"	1.00"	2-1/2"	\$36.75	\$40.75
LF6065	LF6065B	.065"	.500"	.750"	2-1/2"	\$32.75	\$36.75
LF6070	LF6070B	.070"	.500"	.750"	2-1/2"	\$32.75	\$36.75
LF6075	LF6075B	.075"	.500"	.750"	2-1/2"	\$30.75	\$34.75
LF6078	LF6078B	.078"(5/64)	.500"	.750"	2-1/2"	\$30.75	\$34.75
LF6078L	LF6078LB	.078"(5/64)	.500"	1.00"	2-1/2"	\$36.75	\$40.75
LF6090	LF6090B	.090"	.500"	1.00"	2-1/2"	\$35.75	\$39.75
LF6093	LF6093B	.093"(3/32)	.500"	1.00"	2-1/2"	\$35.75	\$39.75
LF6125	LF6125B	.125"(1/8)	.750"	1.25"	3"	\$32.75	\$36.75
LF6125L	LF6125LB	.125"(1/8)	1.00"	1.50"	3"	\$32.75	\$36.75

Tools are custom manufactured to order and are nonreturnable.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

35

STUB LONG SHANK END MILLS

Microcut



STUB - LONG SHANK END MILLS

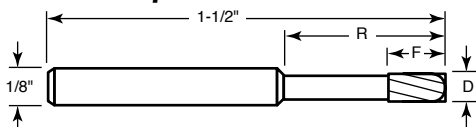
SQUARE & BALL END - UNCOATED

CARBIDE DECIMAL END MILLS - 4 FLT - 1/8" SHK - 2-1/2" O.A.L.



TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
SF4015	SF4015B	.015"	.030"	\$22.95	\$26.95
SF4020	SF4020B	.020"	.040"	\$21.50	\$25.50
SF4025	SF4025B	.025"	.050"	\$20.50	\$24.50
SF4030	SF4030B	.030"	.060"	\$19.50	\$22.50
SF4031	SF4031B	.031"	.062"	\$19.50	\$22.50
SF4035	SF4035B	.035"	.070"	\$19.50	\$22.50
SF4040	SF4040B	.040"	.080"	\$19.50	\$22.50
SF4045	SF4045B	.045"	.090"	\$19.50	\$22.50
SF4047	SF4047B	.047"	.094"	\$19.50	\$22.50
SF4050	SF4050B	.050"	.100"	\$19.50	\$22.50
SF4060	SF4060B	.060"	.120"	\$19.50	\$22.50
SF4062	SF4062B	.062"	.125"	\$19.50	\$22.50
SF4065	SF4065B	.065"	.130"	\$19.50	\$22.50
SF4070	SF4070B	.070"	.140"	\$19.50	\$22.50
SF4075	SF4075B	.075"	.150"	\$19.50	\$22.50
SF4078	SF4078B	.078"	.156"	\$19.50	\$22.50
SF4090	SF4090B	.090"	.180"	\$19.50	\$22.50
SF4093	SF4093B	.093"	.186"	\$19.50	\$22.50
SF4125	SF4125B	.125"	.250"	\$18.50	\$21.50

ORDER SPECIAL Square & Ball End LONG REACH MILLS



1. Specify: ☐ Square End or ☐ Ball End.
2. Diameter (D): _____
3. Flute Length (F): _____
4. Overall Reach (R): _____
5. Quantity (Minimum 6): _____

**Special Reaches
Shipped
within
24-48 Hours!**

STUB LONG REACH - LONG SHANK

Microcut



STUB - LONG REACH LONG SHANK END MILLS SQUARE & BALL END - UNCOATED

CARBIDE DECIMAL & FRACTIONAL END MILLS - 4 FLUTE

2-1/2" O.A.L. - 1/8" SHANK

Neck is reduced for clearance.



TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
SF3015S	SF3015SB	.015"	.030	.100"	\$29.75	\$35.75
SF3015	SF3015B	.015"	.030	.150"	\$29.75	\$35.75
SF3020S	SF3020SB	.020"	.040	.100"	\$28.50	\$33.50
SF3020	SF3020B	.020"	.040	.160"	\$28.50	\$33.50
SF3025S	SF3025SB	.025"	.050"	.125"	\$27.50	\$29.50
SF3025	SF3025B	.025"	.050"	.200"	\$27.50	\$29.50
SF3030S	SF3030SB	.030"	.060"	.150"	\$26.50	\$29.50
SF3030	SF3030B	.030"	.060"	.250"	\$26.50	\$29.50
SF3031S	SF3031SB	.031"	.062"	.150"	\$26.50	\$29.50
SF3031	SF3031B	.031"	.062"	.250"	\$26.50	\$29.50
SF3035S	SF3035SB	.035"	.070"	.175"	\$26.50	\$29.50
SF3035	SF3035B	.035"	.070"	.280"	\$26.50	\$29.50
SF3040S	SF3040SB	.040"	.080"	.200"	\$26.50	\$29.50
SF3040	SF3040B	.040"	.080"	.325"	\$26.50	\$29.50
SF3045S	SF3045SB	.045"	.090"	.225"	\$26.50	\$29.50
SF3045	SF3045B	.045"	.090"	.360"	\$29.50	\$32.50
SF3047S	SF3047SB	.047"	.094"	.250"	\$26.50	\$29.50
SF3047	SF3047B	.047"	.094"	.375"	\$29.50	\$32.50
SF3050S	SF3050SB	.050"	.100"	.250"	\$26.50	\$29.50
SF3050	SF3050B	.050"	.100"	.400"	\$29.50	\$32.50
SF3060S	SF3060SB	.060"	.120"	.300"	\$26.50	\$29.50
SF3060	SF3060B	.060"	.120"	.500"	\$29.50	\$32.50
SF3062S	SF3062SB	.062"	.125"	.325"	\$26.50	\$29.50
SF3062	SF3062B	.062"	.125"	.500"	\$29.50	\$32.50
SF3065S	SF3065SB	.065"	.130"	.350"	\$26.50	\$29.50
SF3065	SF3065B	.065"	.130"	.500"	\$29.50	\$32.50
SF3070S	SF3070SB	.070"	.140"	.350"	\$26.50	\$29.50
SF3070	SF3070B	.070"	.140"	.550"	\$29.50	\$32.50
SF3075S	SF3075SB	.075"	.150"	.375"	\$26.50	\$29.50
SF3075	SF3075B	.075"	.150"	.600"	\$29.50	\$32.50
SF3078S	SF3078SB	.078"	.156"	.400"	\$26.50	\$29.50
SF3078	SF3078B	.078"	.156"	.625"	\$29.50	\$32.50
SF3090S	SF3090SB	.090"	.180"	.450"	\$26.50	\$29.50
SF3090	SF3090B	.090"	.180"	.650"	\$29.50	\$32.50
SF3093S	SF3093SB	.093"	.186"	.500"	\$26.50	\$29.50
SF3093	SF3093B	.093"	.186"	.750"	\$29.50	\$32.50
SF3125S	SF3125SB	.125"	.250"	.750"	\$26.50	\$29.50
SF3125	SF3125B	.125"	.250"	1.000"	\$28.50	\$31.50

Special long reach end mills quoted on request.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

STUB LONG SHANK END MILLS AITiN

Microcut

STUB - LONG SHANK END MILLS

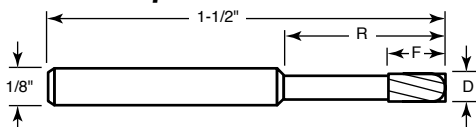
SQUARE & BALL END - AITiN COATED

CARBIDE DECIMAL END MILLS - 4 FLT - 1/8" SHK - 2-1/2" O.A.L.



TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
SF5015	SF5015B	.015"	.030"	\$28.50	\$32.50
SF5020	SF5020B	.020"	.040"	\$26.50	\$30.50
SF5025	SF5025B	.025"	.050"	\$25.50	\$29.50
SF5030	SF5030B	.030"	.060"	\$23.50	\$27.50
SF5031	SF5031B	.031"	.062"	\$23.50	\$27.50
SF5035	SF5035B	.035"	.070"	\$23.50	\$27.50
SF5040	SF5040B	.040"	.080"	\$23.50	\$27.50
SF5045	SF5045B	.045"	.090"	\$23.50	\$27.50
SF5047	SF5047B	.047"	.094"	\$23.50	\$27.50
SF5050	SF5050B	.050"	.100"	\$23.50	\$27.50
SF5060	SF5060B	.060"	.120"	\$23.50	\$27.50
SF5062	SF5062B	.062"	.125"	\$23.50	\$27.50
SF5065	SF5065B	.065"	.130"	\$23.50	\$27.50
SF5070	SF5070B	.070"	.140"	\$23.50	\$27.50
SF5075	SF5075B	.075"	.150"	\$23.50	\$27.50
SF5078	SF5078B	.078"	.156"	\$23.50	\$27.50
SF5090	SF5090B	.090"	.180"	\$23.50	\$27.50
SF5093	SF5093B	.093"	.186"	\$23.50	\$27.50
SF5125	SF5125B	.125"	.250"	\$22.50	\$26.50

ORDER SPECIAL Square & Ball End LONG REACH MILLS



1. Specify: ☐ Square End or ☐ Ball End.
2. Diameter (D): _____
3. Flute Length (F): _____
4. Overall Reach (R): _____
5. Quantity (Minimum 6): _____

**Special Reaches
Shipped
within
24-48 Hours!**

STUB LONG REACH - LONG SHANK

Microcut



STUB - LONG REACH, LONG SHANK END MILLS
SQUARE END - BALL END 2-1/2" O.A.L. - 1/8" SHANK
CARBIDE DECIMAL & FRACTIONAL END MILLS - 4 FLUTE
AITIN COATED Neck is reduced for clearance.



TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
SF6015S	SF6015SB	.015"	.030"	.100"	\$33.75	\$40.75
SF6015	SF6015B	.015"	.030"	.150"	\$33.75	\$40.75
SF6020S	SF6020SB	.020"	.040"	.100"	\$32.50	\$38.50
SF6020	SF6020B	.020"	.040"	.160"	\$32.50	\$38.50
SF6025S	SF6025SB	.025"	.050"	.125"	\$31.50	\$34.50
SF6025	SF6025B	.025"	.050"	.200"	\$31.50	\$34.50
SF6030S	SF6030SB	.030"	.060"	.150"	\$30.50	\$34.50
SF6030	SF6030B	.030"	.060"	.250"	\$30.50	\$34.50
SF6031S	SF6031SB	.031"	.062"	.150"	\$30.50	\$34.50
SF6031	SF6031B	.031"	.062"	.250"	\$30.50	\$34.50
SF6035S	SF6035SB	.035"	.070"	.175"	\$30.50	\$34.50
SF6035	SF6035B	.035"	.070"	.280"	\$30.50	\$34.50
SF6040S	SF6040SB	.040"	.080"	.200"	\$30.50	\$34.50
SF6040	SF6040B	.040"	.080"	.325"	\$30.50	\$34.50
SF6045S	SF6045SB	.045"	.090"	.225"	\$30.50	\$34.50
SF6045	SF6045B	.045"	.090"	.360"	\$33.50	\$37.50
SF6047S	SF6047SB	.047"	.094"	.250"	\$30.50	\$34.50
SF6047	SF6047B	.047"	.094"	.375"	\$33.50	\$37.50
SF6050S	SF6050SB	.050"	.100"	.250"	\$30.50	\$34.50
SF6050	SF6050B	.050"	.100"	.400"	\$33.50	\$37.50
SF6060S	SF6060SB	.060"	.120"	.300"	\$30.50	\$34.50
SF6060	SF6060B	.060"	.120"	.500"	\$33.50	\$37.50
SF6062S	SF6062SB	.062"	.125"	.325"	\$30.50	\$34.50
SF6062	SF6062B	.062"	.125"	.500"	\$33.50	\$37.50
SF6065S	SF6065SB	.065"	.130"	.350"	\$30.50	\$34.50
SF6065	SF6065B	.065"	.130"	.500"	\$33.50	\$37.50
SF6070S	SF6070SB	.070"	.140"	.350"	\$30.50	\$34.50
SF6070	SF6070B	.070"	.140"	.550"	\$33.50	\$37.50
SF6075S	SF6075SB	.075"	.150"	.375"	\$30.50	\$34.50
SF6075	SF6075B	.075"	.150"	.600"	\$33.50	\$37.50
SF6078S	SF6078SB	.078"	.156"	.400"	\$30.50	\$34.50
SF6078	SF6078B	.078"	.156"	.625"	\$33.50	\$37.50
SF6090S	SF6090SB	.090"	.180"	.450"	\$30.50	\$34.50
SF6090	SF6090B	.090"	.180"	.650"	\$33.50	\$37.50
SF6093S	SF6093SB	.093"	.186"	.500"	\$30.50	\$34.50
SF6093	SF6093B	.093"	.186"	.750"	\$33.50	\$37.50
SF6125S	SF6125SB	.125"	.250"	.750"	\$29.50	\$33.50
SF6125	SF6125B	.125"	.250"	1.000"	\$32.50	\$35.50

Special long reach end mills quoted on request.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

VARIABLE HELIX MINIATURE 4-FLUTE

VARIABLE HELIX HIGH PERFORMANCE MINIATURE END MILLS - MICROGRAIN CARBIDE

DESIGN FEATURES: UNEQUAL FLUTE SPACING TO REDUCE
CHATTER. HELIX VARIES ON EACH FLUTE.

STANDARD LENGTH - 4 FLUTE - SQUARE END

AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
59031	.031"	.093"	1/8"	1-1/2"	\$21.50
59047	.047"	.140"	1/8"	1-1/2"	\$21.50
59062	.062"	.187"	1/8"	1-1/2"	\$19.50
59078	.078"	.234"	1/8"	1-1/2"	\$19.50
59093	.093"	.267"	1/8"	1-1/2"	\$19.50
59125	.125"	.500"	1/8"	1-1/2"	\$18.50

STUB LENGTH - 4 FLUTE

AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
59031S	.031"	.046"	1/8"	1-1/2"	\$20.50
59047S	.047"	.070"	1/8"	1-1/2"	\$20.50
59062S	.062"	.093"	1/8"	1-1/2"	\$18.50
59078S	.078"	.117"	1/8"	1-1/2"	\$18.50
59093S	.093"	.139"	1/8"	1-1/2"	\$18.50
59125S	.125"	.250"	1/8"	1-1/2"	\$17.50

LONG REACH WITH STANDARD FLUTE LENGTH - 4 FLUTE

AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Length of Reach	Shank Dia.	O.A.L.	Price Each
59431	.031"	.093"	.200"	1/8"	1-1/2"	\$33.50
59447	.047"	.140"	.350"	1/8"	1-1/2"	\$33.50
59462	.062"	.187"	.400"	1/8"	1-1/2"	\$31.50
59478	.078"	.234"	.500"	1/8"	1-1/2"	\$31.50
59493	.093"	.267"	.500"	1/8"	1-1/2"	\$31.50
59425	.125"	.500"	.650"	1/8"	1-1/2"	\$30.50

LONG REACH WITH STUB FLUTE LENGTH - 4 FLUTE

AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Length of Reach	Shank Dia.	O.A.L.	Price Each
59431S	.031"	.046"	.200"	1/8"	1-1/2"	\$32.50
59447S	.047"	.070"	.350"	1/8"	1-1/2"	\$32.50
59462S	.062"	.093"	.400"	1/8"	1-1/2"	\$30.50
59478S	.078"	.117"	.500"	1/8"	1-1/2"	\$30.50
59493S	.093"	.139"	.500"	1/8"	1-1/2"	\$30.50
59425S	.125"	.250"	.650"	1/8"	1-1/2"	\$29.50

VARIABLE HELIX MINIATURE END MILLS

HIGH PERFORMANCE MILLING

VARIABLE HELIX MINIATURE END MILLS WITH CORNER RADIUS

4 FLUTES - MICROGRAIN CARBIDE

AITIN COATED

DESIGN FEATURES: UNEQUAL FLUTE SPACING TO REDUCE CHATTER. HELIX VARIES ON EACH FLUTE.

USE IN STAINLESS STEEL, TOOL STEELS, HIGH TEMPERATURE ALLOYS.



STANDARD LENGTH

Tool Number	Cutter Diameter	Length of Cut	Corner Radius	Shank Dia.	O.A.L.	Price Each
59231	.031"	.093"	.005	1/8"	1-1/2"	\$24.50
59247	.047"	.140"	.005	1/8"	1-1/2"	\$24.50
59262	.062"	.187"	.005	1/8"	1-1/2"	\$22.50
59278	.078"	.234"	.005	1/8"	1-1/2"	\$22.50
59293	.093"	.267"	.010	1/8"	1-1/2"	\$22.50
59225	.125"	.500"	.010 - .015	1/8"	1-1/2"	\$21.50
59287	.187"	.625"	.015 - .020	3/16"	2"	\$22.50
59250	.250"	.750"	.015 - .020	1/4"	2-1/2"	\$28.50
59212	.312"	.812"	.015 - .020	5/16"	2-1/2"	\$31.50
59275	.375"	1.00"	.015 - .020	3/8"	2-1/2"	\$39.95
59200	.500"	1.00"	.025 - .030	1/2"	3"	\$62.95

STUB LENGTH

Tool Number	Cutter Diameter	Length of Cut	Corner Radius	Shank Dia.	O.A.L.	Price Each
59231S	.031"	.093"	.005	1/8"	1-1/2"	\$23.50
59247S	.047"	.140"	.005	1/8"	1-1/2"	\$23.50
59262S	.062"	.187"	.005	1/8"	1-1/2"	\$21.50
59278S	.078"	.234"	.005	1/8"	1-1/2"	\$21.50
59293S	.093"	.267"	.010	1/8"	1-1/2"	\$21.50
59225S	.125"	.500"	.010 - .015	1/8"	1-1/2"	\$19.50
59287S	.187"	.625"	.015 - .020	3/16"	1-1/2"	\$21.50
59250S	.250"	.750"	.015 - .020	1/4"	2"	\$24.50
59212S	.312"	.812"	.015 - .020	5/16"	2"	\$29.50
59275S	.375"	1.00"	.015 - .020	3/8"	2"	\$36.50
59200S	.500"	1.00"	.025 - .030	1/2"	2-1/2"	\$57.50

Special Long Reach Variable Helix end mills quoted on request.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

CORNER RADIUS END MILLS

HIGH PERFORMANCE MILLING

CORNER RADIUS END MILLS

DECIMAL & FRACTIONAL SIZES .015" - .125"

2 FLUTE - CENTER CUTTING - MICROGRAIN CARBIDE

SQUARE END

UNCOATED



Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Overall Length	Price Each
86015-003	.015"	.003"	.045"	1/8"	1-1/2"	\$34.50
86020-005	.020"	.005"	.060"	1/8"	1-1/2"	\$30.50
86025-005	.025"	.005"	.075"	1/8"	1-1/2"	\$30.50
86030-005	.030"	.005"	.090"	1/8"	1-1/2"	\$24.75
86030-010	.030"	.010"	.090"	1/8"	1-1/2"	\$24.75
86031-005	.031" (1/32)	.005"	.093"	1/8"	1-1/2"	\$24.75
86031-010	.031" (1/32)	.010"	.093"	1/8"	1-1/2"	\$24.75
86035-005	.035"	.005"	.105"	1/8"	1-1/2"	\$24.75
86035-010	.035"	.010"	.105"	1/8"	1-1/2"	\$24.75
86040-005	.040"	.005"	.120"	1/8"	1-1/2"	\$20.50
86040-010	.040"	.010"	.120"	1/8"	1-1/2"	\$20.50
86045-005	.045"	.005"	.135"	1/8"	1-1/2"	\$20.50
86045-010	.045"	.010"	.135"	1/8"	1-1/2"	\$20.50
86045-015	.045"	.015"	.135"	1/8"	1-1/2"	\$20.50
86047-005	.047" (3/64)	.005"	.141"	1/8"	1-1/2"	\$20.50
86047-010	.047" (3/64)	.010"	.141"	1/8"	1-1/2"	\$20.50
86047-015	.047" (3/64)	.015"	.141"	1/8"	1-1/2"	\$20.50
86050-005	.050"	.005"	.150"	1/8"	1-1/2"	\$20.50
86050-010	.050"	.010"	.150"	1/8"	1-1/2"	\$20.50
86050-015	.050"	.015"	.150"	1/8"	1-1/2"	\$20.50
86060-005	.060"	.005"	.180"	1/8"	1-1/2"	\$20.50
86060-010	.060"	.010"	.180"	1/8"	1-1/2"	\$20.50
86060-015	.060"	.015"	.180"	1/8"	1-1/2"	\$20.50
86062-005	.062" (1/16)	.005"	.186"	1/8"	1-1/2"	\$20.50
86062-010	.062" (1/16)	.010"	.186"	1/8"	1-1/2"	\$20.50
86062-015	.062" (1/16)	.015"	.186"	1/8"	1-1/2"	\$20.50
86075-005	.075"	.005"	.225"	1/8"	1-1/2"	\$20.50
86075-010	.075"	.010"	.225"	1/8"	1-1/2"	\$20.50
86075-015	.075"	.015"	.225"	1/8"	1-1/2"	\$20.50
86078-005	.078" (5/64)	.005"	.234"	1/8"	1-1/2"	\$20.50
86078-010	.078" (5/64)	.010"	.234"	1/8"	1-1/2"	\$20.50
86078-015	.078" (5/64)	.015"	.234"	1/8"	1-1/2"	\$20.50
86090-005	.090"	.005"	.270"	1/8"	1-1/2"	\$20.50
86090-010	.090"	.010"	.270"	1/8"	1-1/2"	\$20.50
86090-015	.090"	.015"	.270"	1/8"	1-1/2"	\$20.50
86093-005	.093" (3/32)	.005"	.279"	1/8"	1-1/2"	\$20.50
86093-010	.093" (3/32)	.010"	.279"	1/8"	1-1/2"	\$20.50
86093-015	.093" (3/32)	.015"	.279"	1/8"	1-1/2"	\$20.50
86125-010	.125" (1/8)	.010"	1/2"	1/8"	1-1/2"	\$17.50
86125-015	.125" (1/8)	.015"	1/2"	1/8"	1-1/2"	\$17.50
86125-020	.125" (1/8)	.020"	1/2"	1/8"	1-1/2"	\$17.50
86125-030	.125" (1/8)	.030"	1/2"	1/8"	1-1/2"	\$17.50

Corner radius helps prevent chipping at corners at high feeds and speeds.

CORNER RADIUS END MILLS

HIGH PERFORMANCE MILLING

CORNER RADIUS END MILLS

DECIMAL & FRACTIONAL SIZES .015" - .125"

4 FLUTE - CENTER CUTTING - MICROGRAIN CARBIDE

SQUARE END

UNCOATED



Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Overall Length	Price Each
89915-003	.015"	.003"	.045"	1/8"	1-1/2"	\$34.50
89920-005	.020"	.005"	.060"	1/8"	1-1/2"	\$30.50
89925-005	.025"	.005"	.075"	1/8"	1-1/2"	\$30.50
89930-005	.030"	.005"	.090"	1/8"	1-1/2"	\$24.75
89930-010	.030"	.010"	.090"	1/8"	1-1/2"	\$24.75
89931-005	.031" (1/32)	.005"	.093"	1/8"	1-1/2"	\$24.75
89931-010	.031" (1/32)	.010"	.093"	1/8"	1-1/2"	\$24.75
89935-005	.035"	.005"	.105"	1/8"	1-1/2"	\$24.75
89935-010	.035"	.010"	.105"	1/8"	1-1/2"	\$24.75
89940-005	.040"	.005"	.120"	1/8"	1-1/2"	\$20.50
89940-010	.040"	.010"	.120"	1/8"	1-1/2"	\$20.50
89945-005	.045"	.005"	.135"	1/8"	1-1/2"	\$20.50
89945-010	.045"	.010"	.135"	1/8"	1-1/2"	\$20.50
89945-015	.045"	.015"	.135"	1/8"	1-1/2"	\$20.50
89947-005	.047" (3/64)	.005"	.141"	1/8"	1-1/2"	\$20.50
89947-010	.047" (3/64)	.010"	.141"	1/8"	1-1/2"	\$20.50
89947-015	.047" (3/64)	.015"	.141"	1/8"	1-1/2"	\$20.50
89950-005	.050"	.005"	.150"	1/8"	1-1/2"	\$20.50
89950-010	.050"	.010"	.150"	1/8"	1-1/2"	\$20.50
89950-015	.050"	.015"	.150"	1/8"	1-1/2"	\$20.50
89960-005	.060"	.005"	.180"	1/8"	1-1/2"	\$20.50
89960-010	.060"	.010"	.180"	1/8"	1-1/2"	\$20.50
89960-015	.060"	.015"	.180"	1/8"	1-1/2"	\$20.50
89962-005	.062" (1/16)	.005"	.186"	1/8"	1-1/2"	\$20.50
89962-010	.062" (1/16)	.010"	.186"	1/8"	1-1/2"	\$20.50
89962-015	.062" (1/16)	.015"	.186"	1/8"	1-1/2"	\$20.50
86975-005	.075"	.005"	.225"	1/8"	1-1/2"	\$20.50
89975-010	.075"	.010"	.225"	1/8"	1-1/2"	\$20.50
89975-015	.075"	.015"	.225"	1/8"	1-1/2"	\$20.50
89978-005	.078" (5/64)	.005"	.234"	1/8"	1-1/2"	\$20.50
89978-010	.078" (5/64)	.010"	.234"	1/8"	1-1/2"	\$20.50
89978-015	.078" (5/64)	.015"	.234"	1/8"	1-1/2"	\$20.50
89990-005	.090"	.005"	.270"	1/8"	1-1/2"	\$20.50
89990-010	.090"	.010"	.270"	1/8"	1-1/2"	\$20.50
89990-015	.090"	.015"	.270"	1/8"	1-1/2"	\$20.50
89993-005	.093" (3/32)	.005"	.279"	1/8"	1-1/2"	\$20.50
89993-010	.093" (3/32)	.010"	.279"	1/8"	1-1/2"	\$20.50
89993-015	.093" (3/32)	.015"	.279"	1/8"	1-1/2"	\$20.50
89925-010	.125" (1/8)	.010"	1/2"	1/8"	1-1/2"	\$17.50
89925-015	.125" (1/8)	.015"	1/2"	1/8"	1-1/2"	\$17.50
89925-020	.125" (1/8)	.020"	1/2"	1/8"	1-1/2"	\$17.50
89925-030	.125" (1/8)	.030"	1/2"	1/8"	1-1/2"	\$17.50

Corner radius helps prevent chipping at corners at high feeds and speeds.

CORNER RADIUS END MILLS

HIGH PERFORMANCE MILLING

CORNER RADIUS END MILLS

DECIMAL & FRACTIONAL SIZES .015" - .078"

4 FLUTE - CENTER CUTTING - MICROGRAIN CARBIDE

AlTiN COATED



Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Overall Length	Price Each
89015-003	.015"	.003"	.045"	1/8"	1-1/2"	\$38.50
89020-005	.020"	.005"	.060"	1/8"	1-1/2"	\$34.50
89025-005	.025"	.005"	.075"	1/8"	1-1/2"	\$34.50
89030-005	.030"	.005"	.090"	1/8"	1-1/2"	\$28.75
89030-010	.030"	.010"	.090"	1/8"	1-1/2"	\$28.75
89031-005	.031" (1/32)	.005"	.093"	1/8"	1-1/2"	\$28.75
89031-010	.031" (1/32)	.010"	.093"	1/8"	1-1/2"	\$28.75
89035-005	.035"	.005"	.105"	1/8"	1-1/2"	\$28.75
89035-010	.035"	.010"	.105"	1/8"	1-1/2"	\$28.75
89040-005	.040"	.005"	.120"	1/8"	1-1/2"	\$24.50
89040-010	.040"	.010"	.120"	1/8"	1-1/2"	\$24.50
89045-005	.045"	.005"	.135"	1/8"	1-1/2"	\$24.50
89045-010	.045"	.010"	.135"	1/8"	1-1/2"	\$24.50
89045-015	.045"	.015"	.135"	1/8"	1-1/2"	\$24.50
89047-005	.047" (3/64)	.005"	.141"	1/8"	1-1/2"	\$24.50
89047-010	.047" (3/64)	.010"	.141"	1/8"	1-1/2"	\$24.50
89047-015	.047" (3/64)	.015"	.141"	1/8"	1-1/2"	\$24.50
89050-005	.050"	.005"	.150"	1/8"	1-1/2"	\$24.50
89050-010	.050"	.010"	.150"	1/8"	1-1/2"	\$24.50
89050-015	.050"	.015"	.150"	1/8"	1-1/2"	\$24.50
89060-005	.060"	.005"	.180"	1/8"	1-1/2"	\$24.50
89060-010	.060"	.010"	.180"	1/8"	1-1/2"	\$24.50
89060-015	.060"	.015"	.180"	1/8"	1-1/2"	\$24.50
89062-005	.062" (1/16)	.005"	.186"	1/8"	1-1/2"	\$24.50
89062-010	.062" (1/16)	.010"	.186"	1/8"	1-1/2"	\$24.50
89062-015	.062" (1/16)	.015"	.186"	1/8"	1-1/2"	\$24.50
89075-005	.075"	.005"	.225"	1/8"	1-1/2"	\$24.50
89075-010	.075"	.010"	.225"	1/8"	1-1/2"	\$24.50
89075-015	.075"	.015"	.225"	1/8"	1-1/2"	\$24.50
89078-005	.078" (5/64)	.005"	.234"	1/8"	1-1/2"	\$24.50
89078-010	.078" (5/64)	.010"	.234"	1/8"	1-1/2"	\$24.50
89078-015	.078" (5/64)	.015"	.234"	1/8"	1-1/2"	\$24.50

Continued Next Page

HIGH PERFORMANCE MILLING

CORNER RADIUS END MILLS

DECIMAL & FRACTIONAL SIZES .090" - .500"

4 FLUTE - CENTER CUTTING - MICROGRAIN CARBIDE

AlTiN COATED



Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Overall Length	Price Each
89090-005	.090"	.005"	.270"	1/8"	1-1/2"	\$24.50
89090-010	.090"	.010"	.270"	1/8"	1-1/2"	\$24.50
89090-015	.090"	.015"	.270"	1/8"	1-1/2"	\$24.50
89093-005	.093" (3/32)	.005"	.279"	1/8"	1-1/2"	\$24.50
89093-010	.093" (3/32)	.010"	.279"	1/8"	1-1/2"	\$24.50
89093-015	.093" (3/32)	.015"	.279"	1/8"	1-1/2"	\$24.50
89125-010	.125" (1/8)	.010"	1/2"	1/8"	1-1/2"	\$21.50
89125-015	.125" (1/8)	.015"	1/2"	1/8"	1-1/2"	\$21.50
89125-020	.125" (1/8)	.020"	1/2"	1/8"	1-1/2"	\$21.50
89125-030	.125" (1/8)	.030"	1/2"	1/8"	1-1/2"	\$21.50
89187-015	.1875" (3/16)	.015"	5/8"	3/16"	2"	\$19.75
89187-020	.1875" (3/16)	.020"	5/8"	3/16"	2"	\$19.75
89187-030	.1875" (3/16)	.030"	5/8"	3/16"	2"	\$19.75
89250-015	.250" (1/4)	.015"	3/4"	1/4"	2-1/2"	\$24.95
89250-020	.250" (1/4)	.020"	3/4"	1/4"	2-1/2"	\$24.95
89250-030	.250" (1/4)	.030"	3/4"	1/4"	2-1/2"	\$24.95
89250-045	.250" (1/4)	.045"	3/4"	1/4"	2-1/2"	\$24.95
89250-060	.250" (1/4)	.060"	3/4"	1/4"	2-1/2"	\$24.95
89312-015	.3125" (5/16")	.015"	13/16"	5/16"	2-1/2"	\$32.95
89312-030	.3125" (5/16")	.030"	13/16"	5/16"	2-1/2"	\$32.95
89312-060	.3125" (5/16")	.060"	13/16"	5/16"	2-1/2"	\$32.95
89375-015	.375" (3/8)	.015"	1"	3/8"	2-1/2"	\$39.50
89375-030	.375" (3/8)	.030"	1"	3/8"	2-1/2"	\$39.50
89375-045	.375" (3/8)	.045"	1"	3/8"	2-1/2"	\$39.50
89375-060	.375" (3/8)	.060"	1"	3/8"	2-1/2"	\$39.50
89500-015	.500" (1/2)	.015"	1"	1/2"	3"	\$58.95
89500-030	.500" (1/2)	.030"	1"	1/2"	3"	\$58.95
89500-045	.500" (1/2)	.045"	1"	1/2"	3"	\$58.95
89500-060	.500" (1/2)	.060"	1"	1/2"	3"	\$58.95
89500-125	.500" (1/2)	.125"	1"	1/2"	3"	\$58.95

Corner radius helps prevent chipping at corners at high feeds and speeds.

STUB LENGTH 4-FLUTE CORNER RAD



STUB LENGTH CORNER RADIUS END MILLS SQUARE END 4 FLUTE - 1-1/2" O.A.L. AITiN COATED

Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Price Each
89415-003	.015"	.003"	.023"	1/8"	\$38.95
89420-005	.020"	.005"	.030"	1/8"	\$37.50
89425-005	.025"	.005"	.038"	1/8"	\$37.50
89430-005	.030"	.005"	.045"	1/8"	\$28.75
89430-010	.030"	.010"	.045"	1/8"	\$28.75
89431-005	.031" (1/32")	.005"	.047"	1/8"	\$28.75
89431-010	.031" (1/32")	.010"	.047"	1/8"	\$28.75
89435-005	.035"	.005"	.053"	1/8"	\$26.75
89435-010	.035"	.010"	.053"	1/8"	\$26.75
89440-005	.040"	.005"	.060"	1/8"	\$24.50
89440-010	.040"	.010"	.060"	1/8"	\$24.50
89445-005	.045"	.005"	.068"	1/8"	\$24.50
89445-010	.045"	.010"	.068"	1/8"	\$24.50
89445-015	.045"	.015"	.068"	1/8"	\$24.50
89447-005	.047" (3/64")	.005"	.071"	1/8"	\$24.50
89447-010	.047" (3/64")	.010"	.071"	1/8"	\$24.50
89447-015	.047" (3/64")	.015"	.071"	1/8"	\$24.50
89450-005	.050"	.005"	.075"	1/8"	\$24.50
89450-010	.050"	.010"	.075"	1/8"	\$24.50
89450-015	.050"	.015"	.075"	1/8"	\$24.50
89460-005	.060"	.005"	.090"	1/8"	\$24.50
89460-010	.060"	.010"	.090"	1/8"	\$24.50
89460-015	.060"	.015"	.090"	1/8"	\$24.50
89462-005	.062" (1/16")	.005"	.093"	1/8"	\$24.50
89462-010	.062" (1/16")	.010"	.093"	1/8"	\$24.50
89462-015	.062" (1/16")	.015"	.093"	1/8"	\$24.50
89465-005	.065"	.005"	.098"	1/8"	\$24.50
89465-010	.065"	.010"	.098"	1/8"	\$24.50
89465-015	.065"	.015"	.098"	1/8"	\$24.50
89470-005	.070"	.005"	.105"	1/8"	\$24.50
89470-010	.070"	.010"	.105"	1/8"	\$24.50
89470-015	.070"	.015"	.105"	1/8"	\$24.50
89475-005	.075"	.005"	.113"	1/8"	\$24.50
89475-010	.075"	.010"	.113"	1/8"	\$24.50
89475-015	.075"	.015"	.113"	1/8"	\$24.50
89478-005	.078" (5/64")	.005"	.117"	1/8"	\$24.50
89478-010	.078" (5/64")	.010"	.117"	1/8"	\$24.50
89478-015	.078" (5/64")	.015"	.117"	1/8"	\$24.50
89490-005	.090"	.005"	.135"	1/8"	\$24.50
89490-010	.090"	.010"	.135"	1/8"	\$24.50
89490-015	.090"	.015"	.135"	1/8"	\$24.50
89493-005	.093" (3/32")	.005"	.140"	1/8"	\$24.50
89493-010	.093" (3/32")	.010"	.140"	1/8"	\$24.50
89493-015	.093" (3/32")	.015"	.140"	1/8"	\$24.50
89410-005	.100"	.005"	.150"	1/8"	\$24.50
89410-010	.100"	.010"	.150"	1/8"	\$24.50
89410-015	.100"	.015"	.150"	1/8"	\$24.50
89412-010	.125" (1/8")	.010"	.250"	1/8"	\$24.50
89412-015	.125" (1/8")	.015"	.250"	1/8"	\$24.50
89412-030	.125" (1/8")	.030"	.250"	1/8"	\$24.50

STUB LENGTH LONG RCH CORNER RAD



**Shipped
Within 24-48
Hours**

STUB LENGTH LONG REACH CORNER RAD EM SQUARE END 1-1/2" O.A.L. - 1/8" SHANK **AITiN COATED**

Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Reach From Tip	Price Each
79415-003	.015"	.003"	.023"	.125"	\$49.95
79420-005	.020"	.005"	.030"	.150"	\$48.50
79425-005	.025"	.005"	.038"	.200"	\$48.50
79430-005	.030"	.005"	.045"	.200"	\$39.75
79430-010	.030"	.010"	.045"	.200"	\$39.75
79431-005	.031" (1/32")	.005"	.047"	.250"	\$39.75
79431-010	.031" (1/32")	.010"	.047"	.250"	\$39.75
79435-005	.035"	.005"	.053"	.250"	\$37.75
79435-010	.035"	.010"	.053"	.250"	\$37.75
79440-005	.040"	.005"	.060"	.250"	\$36.50
79440-010	.040"	.010"	.060"	.250"	\$36.50
79445-005	.045"	.005"	.068"	.275"	\$36.50
79445-010	.045"	.010"	.068"	.275"	\$36.50
79445-015	.045"	.015"	.068"	.275"	\$36.50
79447-005	.047" (3/64")	.005"	.071"	.300"	\$36.50
79447-010	.047" (3/64")	.010"	.071"	.300"	\$36.50
79447-015	.047" (3/64")	.015"	.071"	.300"	\$36.50
79450-005	.050"	.005"	.075"	.350"	\$36.50
79450-010	.050"	.010"	.075"	.350"	\$36.50
79450-015	.050"	.015"	.075"	.350"	\$36.50
79460-005	.060"	.005"	.090"	.400"	\$36.50
79460-010	.060"	.010"	.090"	.400"	\$36.50
79460-015	.060"	.015"	.090"	.400"	\$36.50
79462-005	.062" (1/16")	.005"	.093"	.400"	\$36.50
79462-010	.062" (1/16")	.010"	.093"	.400"	\$36.50
79462-015	.062" (1/16")	.015"	.093"	.400"	\$36.50
79465-005	.065"	.005"	.098"	.450"	\$36.50
79465-010	.065"	.010"	.098"	.450"	\$36.50
79465-015	.065"	.015"	.098"	.450"	\$36.50
79470-005	.070"	.005"	.105"	.500"	\$36.50
79470-010	.070"	.010"	.105"	.500"	\$36.50
79470-015	.070"	.015"	.105"	.500"	\$36.50
79475-005	.075"	.005"	.113"	.500"	\$36.50
79475-010	.075"	.010"	.113"	.500"	\$36.50
79475-015	.075"	.015"	.113"	.500"	\$36.50
79478-005	.078" (5/64")	.005"	.117"	.500"	\$36.50
79478-010	.078" (5/64")	.010"	.117"	.500"	\$36.50
79478-015	.078" (5/64")	.015"	.117"	.500"	\$36.50
79490-005	.090"	.005"	.135"	.550"	\$36.50
79490-010	.090"	.010"	.135"	.550"	\$36.50
79490-015	.090"	.015"	.135"	.550"	\$36.50
79493-005	.093" (3/32")	.005"	.140"	.550"	\$36.50
79493-010	.093" (3/32")	.010"	.140"	.550"	\$36.50
79493-015	.093" (3/32")	.015"	.140"	.550"	\$36.50
79410-005	.100"	.005"	.150"	.550"	\$36.50
79410-010	.100"	.010"	.150"	.550"	\$36.50
79410-015	.100"	.015"	.150"	.550"	\$36.50
79412-010	.125" (1/8")	.010"	.250"	.600"	\$36.50
79412-015	.125" (1/8")	.015"	.250"	.600"	\$36.50
79412-030	.125" (1/8")	.030"	.250"	.600"	\$36.50

Tools are custom manufactured to order and are nonreturnable.

MINIATURE BALL PROFILE CUTTERS

HIGH PERFORMANCE MILLING MINIATURE BALL END PROFILE CLEARANCE CUTTERS

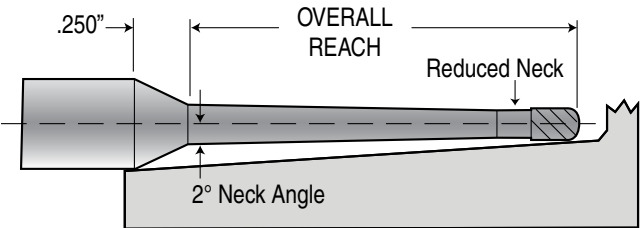
Designed for Deep Cavity Profiling in tough materials.
BALL END - 2 FLUTE - MICROGRAIN CARBIDE - AITiN COATED
2 DEGREE TAPERED NECK MINIMIZES DEFLECTION AND
MAXIMIZES WALL CLEARANCE ON WORKPIECE



Tool Number	Cutter Dia.	LOC	Overall Reach	Shk. Dia.	OAL	Price Each
17031-500	.031"	.047"	.500"	1/4"	3"	\$44.50
17031-750	.031"	.047"	.750"	1/4"	3"	\$51.50
17031-100	.031"	.047"	1.00"	1/4"	3"	\$53.50
17047-500	.047"	.071"	.500"	1/4"	3"	\$44.50
17047-750	.047"	.071"	.750"	1/4"	3"	\$51.50
17047-100	.047"	.071"	1.00"	1/4"	3"	\$53.50
17062-500	.062"	.094"	.500"	1/4"	3"	\$42.75
17062-750	.062"	.094"	.750"	1/4"	3"	\$47.75
17062-100	.062"	.094"	1.00"	1/4"	3"	\$49.75
17078-750	.078"	.118"	.750"	1/4"	3"	\$47.75
17078-100	.078"	.118"	1.00"	1/4"	3"	\$49.75
17078-125	.078"	.118"	1.25"	1/4"	3"	\$52.75
17093-750	.093"	.140"	.750"	1/4"	3"	\$47.75
17093-100	.093"	.140"	1.00"	1/4"	3"	\$49.75
17093-125	.093"	.140"	1.25"	1/4"	3"	\$52.75
17125-750	.125"	.187"	.750"	1/4"	3"	\$47.75
17125-100	.125"	.187"	1.00"	1/4"	3"	\$49.75
17125-125	.125"	.187"	1.25"	1/4"	3"	\$52.75

Note: Miniature profile cutters are designed to mill deep cavities in molds. The tapered neck is available in various lengths to provide the most rigid tool for each application. Since interference with the cavity wall is a possibility (see diagram), we suggest the application be verified with CAD by your programmer.

Neck is reduced behind the cutter diameter for a length of one diameter.



BALL END MILLS FOR DIES & MOLDS

HIGH PERFORMANCE MILLING

BALL MILLS FOR DIES & MOLDS - 2 FLUTE

FOR HARD MILLING IN MOLD & DIE STEELS 40-60 RC

NEW "nACo" COATING FOR EXTREME DURABILITY AT HIGH TEMPERATURE. SHORT FLUTE LENGTH WITH REDUCED NECK FOR MAXIMUM RIGIDITY. USE WITH AIR MIST COOLANT.



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
58704	.031	.031	1/8	3	\$22.50
58706	.047	.047	1/8	3	\$22.50
58708	.062	.062	1/8	3	\$20.50
58710	.078	.078	1/8	3	\$20.50
58712	.093	.093	1/8	3	\$20.50
58714	.125	.125	1/8	3	\$19.75
58716	.187	.187	3/16	3	\$24.75
58718	.250	.250	1/4	3	\$34.50

MINIATURE DIE SINKING BALL END MILLS

3, 5, & 7 DEGREE TAPERED NECK

2 STRAIGHT FLUTES BALL END

AlTiN COATED



3 DEGREES PER SIDE

Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
59931-3	.031"	.875"	.125"	2"	\$19.75
59962-3	.062"	.562"	.125"	2"	\$19.75
59993-3	.093"	.875"	.187"	2"	\$26.50
59125-3	.125"	1.00"	.250"	2-1/2"	\$35.50

5 DEGREES PER SIDE

Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
59931-5	.031"	.500"	.125"	2"	\$19.75
59962-5	.062"	.312"	.125"	2"	\$19.75
59993-5	.093"	.500"	.187"	2"	\$26.50
59125-5	.125"	.680"	.250"	2-1/2"	\$35.50

7 DEGREES PER SIDE

Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
59931-7	.031"	.375"	.125"	1-1/2"	\$19.75
59962-7	.062"	.250"	.125"	1-1/2"	\$19.75
59993-7	.093"	.375"	.187"	2"	\$26.50
59125-7	.125"	.500"	.250"	2-1/2"	\$35.50

AlTiN coated for ultimate performance and maximum wear resistance.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

UNDERCUTTING CARBIDE END MILLS

HIGH PERFORMANCE MILLING

UNDERCUTTING CARBIDE END MILLS

AVAILABLE IN STANDARD LENGTH AND LONG SHANK SERIES
DESIGNED FOR MACHINING MOLD CAVITIES

220 DEGREE SPHERICAL BALL

AITiN COATED



Tool Number	Cutter Dia.	Length of Cut	Neck Dia.	No. Flutes	Shank Dia.	O.A.L.	Price Each
13062	1/16"	.040"	.048"	2	1/8"	1-1/2"	\$24.50
13093	3/32"	.060"	.077"	2	1/8"	1-1/2"	\$24.50
13125	1/8"	3/32"	.095"	4	1/8"	1-1/2"	\$21.50
13125L	1/8"	3/32"	.095"	4	1/8"	3"	\$23.50
13187	3/16"	9/64"	.140"	4	3/16"	2"	\$25.75
13187L	3/16"	9/64"	.140"	4	3/16"	3"	\$28.95
13250	1/4"	11/64"	.187"	4	1/4"	2-1/2"	\$34.50
13250L	1/4"	11/64"	.187"	4	1/4"	4"	\$38.50
13375	3/8"	9/32"	.250"	4	3/8"	2-1/2"	\$48.75
13375L	3/8"	9/32"	.250"	4	3/8"	4"	\$54.50
13500	1/2"	3/8"	.375"	4	1/2"	3"	\$69.75
13500L	1/2"	3/8"	.375"	4	1/2"	6"	\$99.50

LONG REACH - 4 FLUTE



Tool Number	Cutter Dia.	Length of Cut	Neck Dia.	Reach From Tip	Shank Dia.	O.A.L.	Price Each
13062LR	1/16"	.040"	.048"	.250"	1/8"	1-1/2"	\$29.75
13093LR	3/32"	.060"	.077"	.400"	1/8"	1-1/2"	\$29.75
13125LR	1/8"	3/32"	.095"	.580"	1/8"	1-1/2"	\$24.75
13187LR	3/16"	9/64"	.140"	.625"	3/16"	2"	\$31.50
13250LR	1/4"	11/64"	.187"	.900"	1/4"	2-1/2"	\$39.95
13375LR	3/8"	9/32"	.250"	1.000"	3/8"	2-1/2"	\$52.50
13500LR	1/2"	3/8"	.375"	1.330"	1/2"	3"	\$69.50

EXTRA LONG REACH - 4 FLUTE



Tool Number	Cutter Dia.	Length of Cut	Neck Dia.	Reach From Tip	Shank Dia.	O.A.L.	Price Each
13125XR	1/8"	3/32"	.095"	1.080"	1/8"	3"	\$27.50
13187XR	3/16"	9/64"	.140"	1.125"	3/16"	3"	\$33.50
13250XR	1/4"	11/64"	.187"	1.660"	1/4"	4"	\$42.50
13375XR	3/8"	9/32"	.250"	1.750"	3/8"	4"	\$59.50
13500XR	1/2"	3/8"	.375"	2.330"	1/2"	6"	\$95.50

Special long reach with reduced neck diameters quoted on request.

45 DEGREE HELIX MINIATURE END MILLS

HIGH PERFORMANCE MILLING

45 DEGREE HELIX MINIATURE END MILLS FOR MACHINING ALLOYED STEELS TO 50 RC

5 FLUTES - AITiN COATED

HEAVY CORE WITH CORNER CHAMFER OR RADIUS ON ALL SIZES

STUB LENGTH



Tool Number	Cutter Diameter	Length of Cut	Corner Chamfer/Radius	Shank Dia.	O.A.L.	Price Each
57031S	.031"	.062"	.005" CHFR	1/8"	1-1/2"	\$21.75
57047S	.047"	.094"	.005" CHFR	1/8"	1-1/2"	\$21.75
57062S	.062"	.125"	.007" CHFR	1/8"	1-1/2"	\$19.75
57078S	.078"	.156"	.007" CHFR	1/8"	1-1/2"	\$19.75
57093S	.093"	.186"	.007" CHFR	1/8"	1-1/2"	\$19.75
57125S	.125"	.250"	.010" RAD	1/8"	1-1/2"	\$14.75
57187S	.187"	.375"	.010" RAD	3/16"	2"	\$16.75
57250S	.250"	.500"	.020" RAD	1/4"	2"	\$18.75
57312S	.312"	.500"	.020" RAD	5/16"	2"	\$23.75
57375S	.375"	.625"	.020" RAD	3/8"	2"	\$34.75
57500S	.500"	.625"	.040" RAD	1/2"	2-1/2"	\$44.75

STANDARD LENGTH



Tool Number	Cutter Diameter	Length of Cut	Corner Chamfer/Radius	Shank Dia.	O.A.L.	Price Each
57031	.031"	.093"	.005" CHFR	1/8"	1-1/2"	\$23.95
57047	.047"	.141"	.005" CHFR	1/8"	1-1/2"	\$23.95
57062	.062"	.186"	.007" CHFR	1/8"	1-1/2"	\$22.95
57078	.078"	.234"	.007" CHFR	1/8"	1-1/2"	\$22.95
57093	.093"	.267"	.007" CHFR	1/8"	1-1/2"	\$22.95
57125	.125"	.500"	.010" RAD	1/8"	1-1/2"	\$18.95
57187	.187"	.750"	.010" RAD	3/16"	2"	\$22.95
57250	.250"	.750"	.020" RAD	1/4"	2-1/2"	\$24.95
57312	.312"	.875"	.020" RAD	5/16"	2-1/2"	\$26.95
57375	.375"	.875"	.020" RAD	3/8"	2-1/2"	\$38.95
57500	.500"	1.250"	.040" RAD	1/2"	3"	\$69.95

CARBIDE END MILLS

FOR HARDENED STEEL OVER 50 RC

1/8" to 1/2" Diameters - SOLID CARBIDE

6 FLUTES WITH CORNER RADIUS - 45 DEGREE HELIX

AITiN COATED



Tool Number	Cutter Dia.	Length of Cut	Corner Radius	Shank Dia.	Square O.A.L.	Price each
58125	1/8"	.500"	.010	1/8"	1-1/2"	\$19.50
58187	3/16"	.625"	.010	3/16"	2"	\$24.50
58250	1/4"	.750"	.015	1/4"	2-1/2"	\$36.50
58312	5/16"	.812"	.020	5/16"	2-1/2"	\$39.50
58375	3/8"	1.00"	.020	3/8"	2-1/2"	\$46.50
58500	1/2"	1.00"	.025	1/2"	3"	\$72.50

Heavy Core combined with Corner Radius for improved life.

MICRO END MILLS FOR ALUMINUM

END MILLS FOR ALUMINUM- .031" to .125"

45 DEGREE HELIX 1/8 SHANK - 1-1/2" OAL

2 FLUTE - SQ & BALL END - UNCOATED MICROGRAIN CARBIDE CENTER CUTTING



Square End	Ball End	Cutter Dia.	Length of Cut	Square End	Ball End
80031	80031B	.031"	.093"	\$16.75	\$19.75
80035	80035B	.035"	.105"	\$16.75	\$19.75
80040	80040B	.040"	.120"	\$16.75	\$19.75
80045	80045B	.045"	.135"	\$16.75	\$19.75
80047	80047B	.047"	.141"	\$16.75	\$19.75
80050	80050B	.050"	.150"	\$16.75	\$19.75
80060	80060B	.060"	.180"	\$16.75	\$19.75
80062	80062B	.062"	.187"	\$14.50	\$18.50
80070	80070B	.070"	.210"	\$14.50	\$18.50
80075	80075B	.075"	.225"	\$14.50	\$18.50
80078	80078B	.078"	.234"	\$14.50	\$18.50
80090	80090B	.090"	.270"	\$14.50	\$18.50
80093	80093B	.093"	.279"	\$14.50	\$18.50
80125	80125B	.125"	.500"	\$14.20	\$17.90

SQ & BALL END - ZIRCONIUM NITRIDE COATED



Square End	Ball End	Cutter Dia.	Length of Cut	Square End	Ball End
80031Z	80031BZ	.031"	.093"	\$21.25	\$24.25
80035Z	80035BZ	.035"	.105"	\$21.25	\$24.25
80040Z	80040BZ	.040"	.120"	\$21.25	\$24.25
80045Z	80045BZ	.045"	.135"	\$21.25	\$24.25
80047Z	80047BZ	.047"	.141"	\$21.25	\$24.25
80050Z	80050BZ	.050"	.150"	\$21.25	\$24.25
80060Z	80060BZ	.060"	.180"	\$21.25	\$24.25
80062Z	80062BZ	.062"	.187"	\$18.95	\$23.00
80070Z	80070BZ	.070"	.210"	\$18.95	\$23.00
80075Z	80075BZ	.075"	.225"	\$18.95	\$23.00
80078Z	80078BZ	.078"	.234"	\$18.95	\$23.00
80090Z	80090BZ	.090"	.270"	\$18.95	\$23.00
80093Z	80093BZ	.093"	.279"	\$18.95	\$23.00
80125Z	80125BZ	.125"	.500"	\$18.50	\$22.25

Zirconium coating has a low affinity for non ferrous materials. Helps prevent buildup and chip packing on cutting edges & flutes. Use in aluminum, aluminum & magnesium alloys, brass, copper & bronze. 45 degree helix for faster chip removal and improved finish.

LONG REACH END MILLS FOR ALUMINUM

LONG REACH FOR ALUMINUM- .031" to .125" 45 DEGREE HELIX

2 FLUTE - **SQ** & **BALL END** - **UNCOATED**

FOR FASTER CHIP REMOVAL & IMPROVED FINISH

CENTER CUTTING - MICROGRAIN CARBIDE

MINIMUM 3 PIECES PER SIZE

**Shipped
Within 24-48
Hours**



Square End	Ball End	Cutter Dia.	Length of Cut	Reach From Tip	Square End	Ball End
70031	70031B	.031"	.093"	.250	28.75	31.75
70035	70035B	.035"	.105"	.285	28.75	31.75
70040	70040B	.040"	.120"	.350	28.75	31.75
70045	70045B	.045"	.135"	.400	28.75	31.75
70047	70047B	.047"	.141"	.400	28.75	31.75
70050	70050B	.050"	.150"	.450	28.75	31.75
70060	70060B	.060"	.180"	.500	28.75	31.75
70062	70062B	.062"	.187"	.500	26.50	30.50
70070	70070B	.070"	.210"	.500	26.50	30.50
70075	70075B	.075"	.225"	.500	26.50	30.50
70078	70078B	.078"	.234"	.500	26.50	30.50
70090	70090B	.090"	.270"	.600	26.50	30.50
70093	70093B	.093"	.279"	.600	26.50	30.50
70125	70125B	.125"	.500"	.650	26.20	29.90

ZIRCONIUM NITRIDE COATED



**Shipped
Within 24-48
Hours**

Square End	Ball End	Cutter Dia.	Length of Cut	Reach From Tip	Square End	Ball End
70031Z	70031BZ	.031"	.093"	.250	33.25	36.25
70035Z	70035BZ	.035"	.105"	.285	33.25	36.25
70040Z	70040BZ	.040"	.120"	.350	33.25	36.25
70045Z	70045BZ	.045"	.135"	.400	33.25	36.25
70047Z	70047BZ	.047"	.141"	.400	33.25	36.25
70050Z	70050BZ	.050"	.150"	.450	33.25	36.25
70060Z	70060BZ	.060"	.180"	.500	33.25	36.25
70062Z	70062BZ	.062"	.187"	.500	30.95	35.00
70070Z	70070BZ	.070"	.210"	.500	30.95	35.00
70075Z	70075BZ	.075"	.225"	.500	30.95	35.00
70078Z	70078BZ	.078"	.234"	.500	30.95	35.00
70090Z	70090BZ	.090"	.270"	.600	30.95	35.00
70093Z	70093BZ	.093"	.279"	.600	30.95	35.00
70125Z	70125BZ	.125"	.500"	.650	30.95	35.00

Tools are custom manufactured to order and are nonreturnable.

TOLL FREE 866-426-3300 • FAX 781-582-8095

www.microcutUSA.com • info@microcutUSA.com

53

2 & 3-FLUTE CARBIDE END MILLS

HIGH PERFORMANCE MILLING

2-FLUTE CARBIDE END MILLS

45 DEGREE HELIX

FOR ALUMINUM, BRASS, BRONZE AND COPPER

UNCOATED - STANDARD LENGTH



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
62250	1/4"	3/4"	1/4"	2-1/2"	\$24.50
62312	5/16"	13/16"	5/16"	2-1/2"	\$27.50
62375	3/8"	1"	3/8"	2-1/2"	\$30.50
62500	1/2"	1-1/4"	1/2"	3"	\$49.50

LONG LENGTH

Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
62250L	1/4"	1-1/4"	1/4"	3"	\$33.50
62312L	5/16"	1-3/8"	5/16"	3"	\$43.50
62375L	3/8"	1-1/2"	3/8"	4"	\$54.50
62500L	1/2"	2"	1/2"	4"	\$75.50

See pages 52 for Micro Sizes.

2-FLUTE CARBIDE END MILLS

45 DEGREE HELIX

FOR ALUMINUM, BRASS, BRONZE AND COPPER

ZRN COATED - STANDARD LENGTH



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
62250Z	1/4"	3/4"	1/4"	2-1/2"	\$29.50
62312Z	5/16"	13/16"	5/16"	2-1/2"	\$36.50
62375Z	3/8"	1"	3/8"	2-1/2"	\$39.95
62500Z	1/2"	1-1/4"	1/2"	3"	\$64.95

LONG LENGTH

Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
62250ZL	1/4"	1-1/4"	1/4"	3"	\$49.75
62312ZL	5/16"	1-3/8"	5/16"	3"	\$59.95
62375ZL	3/8"	1-1/2"	3/8"	4"	\$69.95
62500ZL	1/2"	2"	1/2"	4"	\$98.50

Zirconium has no affinity for the materials mentioned above. Tools plunge cut and can be run at 20-40% higher speed and feed rates.

See pages 52 for Micro Sizes.

2 & 3-FLUTE CARBIDE END MILLS

HIGH PERFORMANCE MILLING

3-FLUTE CARBIDE END MILLS UNCOATED - STANDARD LENGTH



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
63125	1/8"	1/2"	1/8"	1-1/2"	\$17.95
63187	3/16"	3/4"	3/16"	2"	\$21.75
63250	1/4"	3/4"	1/4"	2-1/2"	\$24.50
63312	5/16"	13/16"	5/16"	2-1/2"	\$27.50
63375	3/8"	1"	3/8"	2-1/2"	\$30.50
63500	1/2"	1"	1/2"	3"	\$49.50

LONG LENGTH



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
63250L	1/4"	1-1/4"	1/4"	3"	\$33.50
63312L	5/16"	1-3/8"	5/16"	3"	\$43.50
63375L	3/8"	1-1/2"	3/8"	4"	\$54.50
63500L	1/2"	2"	1/2"	4"	\$75.50

3-FLUTE CARBIDE END MILLS ZRN COATED - STANDARD LENGTH



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
63125Z	1/8"	1/2"	1/8"	1-1/2"	\$21.95
63187Z	3/16"	3/4"	3/16"	2"	\$25.75
63250Z	1/4"	3/4"	1/4"	2-1/2"	\$29.50
63312Z	5/16"	13/16"	5/16"	2-1/2"	\$36.50
63375Z	3/8"	1"	3/8"	2-1/2"	\$39.95
63500Z	1/2"	1"	1/2"	3"	\$64.95

LONG LENGTH



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
63250ZL	1/4"	1-1/4"	1/4"	3"	\$49.75
63312ZL	5/16"	1-3/8"	5/16"	3"	\$59.95
63375ZL	3/8"	1-1/2"	3/8"	4"	\$69.95
63500ZL	1/2"	2"	1/2"	4"	\$98.50

HIGH PERFORMANCE MILLING

3-FLUTE CARBIDE END MILLS

45 DEGREE HELIX

PROFILE AND FINISHING IN ALL EXOTIC MATERIAL AND STAINLESS STEEL

AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
60125	1/8"	1/2"	1/8"	1-1/2"	\$17.95
60187	3/16"	5/8"	3/16"	2"	\$19.95
60250	1/4"	3/4"	1/4"	2-1/2"	\$21.95
60312	5/16"	13/16"	5/16"	2-1/2"	\$26.95
60375	3/8"	7/8"	3/8"	2-1/2"	\$35.95
60500	1/2"	1/4"	1/2"	3"	\$59.95

3-FLUTE CARBIDE END MILLS

60 DEGREE HELIX

PROFILE AND FINISHING IN ALL EXOTIC MATERIAL AND STAINLESS STEEL

AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
61125	1/8"	1/2"	1/8"	1-1/2"	\$17.95
61187	3/16"	5/8"	3/16"	2"	\$19.95
61250	1/4"	3/4"	1/4"	2-1/2"	\$21.95
61312	5/16"	13/16"	5/16"	2-1/2"	\$26.95
61375	3/8"	7/8"	3/8"	2-1/2"	\$35.95
61500	1/2"	1"	1/2"	3"	\$59.95

Increase SFM up to 40% when using these 3-Flute Series of High Performance 45 and 60-Degree Helix End Mills.

SOLID CARBIDE ROUGHERS

HIGH PERFORMANCE MILLING

FINE PITCH ROUGHER

SOLID CARBIDE - 1/4" TO 1/2" DIAMETER

STANDARD LENGTH UNCOATED



Tool Number	Cutter Diameter	Length of Cut	Number of Flutes	Shank Diameter	Overall Length	Price Each
16250	1/4"	3/4"	4	1/4"	2-1/2"	\$23.95
16312	5/16"	13/16"	4	5/16"	2-1/2"	\$33.95
16375	3/8"	7/8"	4	3/8"	2-1/2"	\$38.95
16500	1/2"	1"	4	1/2"	3"	\$48.95

LONG LENGTH UNCOATED



Tool Number	Cutter Diameter	Length of Cut	Number of Flutes	Shank Diameter	Overall Length	Price Each
16250L	1/4"	1-1/2"	4	1/4"	4"	\$35.50
16312L	5/16"	1-1/2"	4	5/16"	4"	\$45.50
16375L	3/8"	1-3/4"	4	3/8"	4"	\$56.50
16500L	1/2"	2"	4	1/2"	4"	\$63.50

STANDARD LENGTH AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Number of Flutes	Shank Diameter	Overall Length	Price Each
15250	1/4"	3/4"	4	1/4"	2-1/2"	\$29.95
15312	5/16"	13/16"	4	5/16"	2-1/2"	\$43.50
15375	3/8"	7/8"	4	3/8"	2-1/2"	\$48.95
15500	1/2"	1"	4	1/2"	3"	\$59.95

LONG LENGTH AITiN COATED



Tool Number	Cutter Diameter	Length of Cut	Number of Flutes	Shank Diameter	Overall Length	Price Each
15250L	1/4"	1-1/2"	4	1/4"	4"	\$41.50
15312L	5/16"	1-1/2"	4	5/16"	4"	\$55.50
15375L	3/8"	1-1/2"	4	3/8"	4"	\$71.50
15500L	1/2"	2"	4	1/2"	4"	\$79.50

Designed to remove the maximum amount of material with a minimum amount of chatter or vibration. Works well in hardened steels, alloyed steel, titanium, stainless and nickel based alloys.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

CORNER ROUNDING END MILLS

Microcut



CORNER ROUNDING END MILLS MICROGRAIN CARBIDE - 2 FLUTE - DOUBLE END



Radius	Pilot Diameter	Shank Diameter	Overall Length	UNCOATED	
				Tool Number	Price Each
.005"	3/64"	1/8"	1-1/2"	99005	\$21.95
.007"	3/64"	1/8"	1-1/2"	99007	\$21.95
.010"	3/64"	1/8"	1-1/2"	99010	\$21.95
.012"	3/64"	1/8"	1-1/2"	99012	\$21.95
.015"	3/64"	1/8"	1-1/2"	99015	\$21.95
.020"	3/64"	1/8"	1-1/2"	99020	\$21.95
.025"	3/64"	1/8"	1-1/2"	99025	\$21.95
.030"	3/64"	1/8"	1-1/2"	99030	\$21.95
.031"	3/64"	1/8"	1-1/2"	99031	\$21.95
.032"	3/64"	1/8"	1-1/2"	99032	\$21.95
.035"	3/64"	1/8"	1-1/2"	99035	\$21.95
.039"	3/64"	1/8"	1-1/2"	99039	\$21.95
.040"	3/64"	3/16"	2"	99040	\$28.50
.043"	3/64"	3/16"	2"	99043	\$28.50
.045"	3/64"	3/16"	2"	99045	\$28.50
.047"	3/64"	3/16"	2"	99047	\$28.50
.050"	3/64"	3/16"	2"	99050	\$28.50
.055"	3/64"	3/16"	2"	99055	\$28.50
.060"	3/64"	3/16"	2"	99060	\$28.50
.062"	3/64"	3/16"	2"	99062	\$28.50
.065"	3/64"	3/16"	2"	99065	\$28.50
.070"	3/64"	3/16"	2"	99070	\$33.50
.075"	3/64"	1/4"	2"	99075	\$33.50
.078"	3/64"	1/4"	2"	99078	\$33.50
.080"	3/64"	1/4"	2"	99080	\$33.50
.090"	3/64"	1/4"	2"	99090	\$33.50
.094"	3/64"	1/4"	2"	99094	\$33.50
.098"	3/64"	1/4"	2"	99098	\$33.50
.100"	3/64"	1/4"	2"	99100	\$33.50
.109"	.060"	5/16"	2-1/2"	99109	\$46.50
.118"	.060"	5/16"	2-1/2"	99118	\$46.50
.125"	.060"	5/16"	2-1/2"	99125	\$43.90
.140"	.060"	3/8"	2-1/2"	99140	\$53.50
.156"	.060"	3/8"	2-1/2"	99156	\$57.75
.187"	.060"	7/16"	2-1/2"	99187	\$97.50
.250"	.110"	5/8"	3-1/2"	99250	\$159.75
.375"	.250"	1"	4"	99375	\$289.95

Forms precision radius on outside edges of parts.

CNC Ground - 2 Flute - Double End - Rigid Solid Carbide Shank

Tolerance on Radius is +/- .0005". Special radii quoted on request.

CORNER ROUNDING MILLS - TiCN / AlTiN

Microcut



CORNER ROUNDING END MILLS MICROGRAIN CARBIDE - 2 FLUTE - DOUBLE END



TiCN COATED & AlTiN COATED

Radius	Pilot Dia.	Shank Dia.	O.A.L.	TiCN COATED		AlTiN COATED	
				Tool Number	Price Each	Tool Number	Price Each
.005"	3/64"	1/8"	1-1/2"	99005TC	\$25.50	99005TL	\$26.95
.007"	3/64"	1/8"	1-1/2"	99007TC	\$25.50	99007TL	\$26.95
.010"	3/64"	1/8"	1-1/2"	99010TC	\$25.50	99010TL	\$26.95
.012"	3/64"	1/8"	1-1/2"	99012TC	\$25.50	99012TL	\$26.95
.015"	3/64"	1/8"	1-1/2"	99015TC	\$25.50	99015TL	\$26.95
.020"	3/64"	1/8"	1-1/2"	99020TC	\$25.50	99020TL	\$26.95
.025"	3/64"	1/8"	1-1/2"	99025TC	\$25.50	99025TL	\$26.95
.030"	3/64"	1/8"	1-1/2"	99030TC	\$25.50	99030TL	\$26.95
.031"	3/64"	1/8"	1-1/2"	99031TC	\$25.50	99031TL	\$26.95
.032"	3/64"	1/8"	1-1/2"	99032TC	\$25.50	99032TL	\$26.95
.035"	3/64"	1/8"	1-1/2"	99035TC	\$25.50	99035TL	\$26.95
.039"	3/64"	1/8"	1-1/2"	99039TC	\$25.50	99039TL	\$26.95
.040"	3/64"	1/8"	1-1/2"	99040TC	\$32.50	99040TL	\$34.90
.043"	3/64"	3/16"	2"	99043TC	\$32.50	99043TL	\$34.90
.045"	3/64"	3/16"	2"	99045TC	\$32.50	99045TL	\$34.90
.047"	3/64"	3/16"	2"	99047TC	\$32.50	99047TL	\$34.90
.050"	3/64"	3/16"	2"	99050TC	\$32.50	99050TL	\$34.90
.055"	3/64"	3/16"	2"	99055TC	\$32.50	99055TL	\$34.90
.060"	3/64"	3/16"	2"	99060TC	\$32.50	99060TL	\$34.90
.062"	3/64"	3/16"	2"	99062TC	\$32.50	99062TL	\$34.90
.065"	3/64"	3/16"	2"	99065TC	\$32.50	99065TL	\$34.90
.070"	3/64"	3/16"	2"	99070TC	\$37.50	99070TL	\$37.90
.075"	3/64"	1/4"	2"	99075TC	\$37.50	99075TL	\$41.25
.078"	3/64"	1/4"	2"	99078TC	\$37.50	99078TL	\$41.25
.080"	3/64"	1/4"	2"	99080TC	\$37.50	99080TL	\$41.25
.090"	3/64"	1/4"	2"	99090TC	\$37.50	99090TL	\$41.25
.094"	3/64"	1/4"	2"	99094TC	\$37.50	99094TL	\$41.25
.098"	3/64"	1/4"	2"	99098TC	\$37.50	99098TL	\$41.25
.100"	3/64"	1/4"	2"	99100TC	\$37.50	99100TL	\$41.25
.109"	.060"	5/16"	2-1/2"	99109TC	\$52.50	99109TL	\$54.50
.118"	.060"	5/16"	2-1/2"	99118TC	\$52.50	99118TL	\$54.50
.125"	.060"	5/16"	2-1/2"	99125TC	\$50.90	99125TL	\$53.50
.140"	.060"	3/8"	2-1/2"	99140TC	\$61.75	99140TL	\$65.50
.156"	.060"	3/8"	2-1/2"	99156TC	\$65.95	99156TL	\$69.75
.187"	.060"	7/16"	2-1/2"	99187TC	\$106.95	99187TL	\$112.75
.250"	.110"	5/8"	3-1/2"			99250TL	\$177.75

TiCN & AlTiN Coated. Forms precision radius on outside edges of parts. CNC Ground - 2 Flute - Double End. Tolerance on Radius is +/- .0005". Rigid solid carbide shank. Special radii quoted on request.

CORNER ROUNDING 4 FLUTE AITiN

Microcut

CORNER ROUNDING END MILLS

CARBIDE - 4 FLUTE - DOUBLE END

UNCOATED & AITiN COATED



Radius	Pilot Dia.	Shank Dia.	O.A.L.	UNCOATED		AITiN COATED	
				Tool Number	Price Each	Tool Number	Price Each
1/64" (.0156)	7/64"	3/16"	2"	98015	\$33.50	98015TL	\$42.50
.5mm (.020)	7/64"	3/16"	2"	98020	\$33.50	98020TL	\$42.50
1/32" (.0312)	7/64"	3/16"	2"	98031	\$37.50	98031TL	\$46.50
1mm (.040)	7/64"	3/16"	2"	98040	\$37.50	98040TL	\$46.50
3/64" (.0469)	7/64"	1/4"	2"	98046	\$39.50	98046TL	\$49.50
1/16" (.0625)	7/64"	1/4"	2"	98062	\$49.50	98062TL	\$59.50
5/64" (.0781)	3/32"	1/4"	2"	98078	\$49.50	98078TL	\$59.50
3/32" (.0934)	1/8"	5/16"	2-1/2"	98093	\$57.75	98093TL	\$69.50
1/8" (.1250)	3/16"	3/8"	2-1/2"	98125	\$84.50	98125TL	\$99.50

Multiple flutes improve performance in hard to machine alloyed steels and mold steels

3° FLARED CORNER ROUNDING END MILLS

CARBIDE - 4 FLUTE - DOUBLE END

UNCOATED & AITiN COATED



Radius	Pilot Dia.	Shank Dia.	O.A.L.	UNCOATED		AITiN COATED	
				Tool Number	Price Each	Tool Number	Price Each
1/64" (.0156)	7/64"	3/16"	2"	98015FL	\$38.50	98015FLT	\$47.50
.5mm (.020)	7/64"	3/16"	2"	98020FL	\$38.50	98020FLT	\$47.50
1/32" (.0312)	7/64"	3/16"	2"	98031FL	\$43.50	98031FLT	\$52.50
1mm (.040)	7/64"	3/16"	2"	98040FL	\$43.50	98040FLT	\$52.50
3/64" (.0469)	7/64"	1/4"	2"	98046FL	\$52.50	98046FLT	\$62.50
1/16" (.0625)	7/64"	1/4"	2"	98062FL	\$52.50	98062FLT	\$62.50
5/64" (.0781)	3/32"	1/4"	2"	98078FL	\$52.50	98078FLT	\$62.50
3/32" (.0934)	1/8"	5/16"	2-1/2"	98093FL	\$63.75	98093FLT	\$75.50
1/8" (.1250)	3/16"	3/8"	2-1/2"	98125FL	\$94.50	98125FLT	\$109.50

Multiple flutes improve performance in hard to machine alloyed steels and mold steels. 3° flare on pilot and shoulder help avoid steps in workpiece.

3° FLARED CORNER ROUNDING MILLS

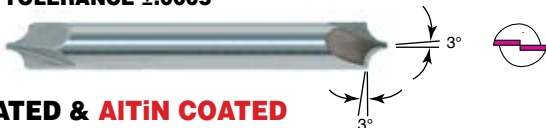
Microcut

3° FLARED CORNER ROUNDING END MILLS 2 FLUTE

MICROGRAIN CARBIDE • DOUBLE END

DEPTH OF CUT = RADIUS PLUS .005"

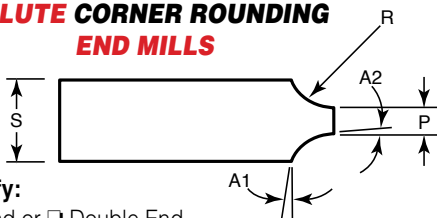
RADIUS TOLERANCE $\pm .0005"$



UNCOATED & AITiN COATED

Radius	Pilot Dia.	Shank Dia.	O.A.L.	UNCOATED		AITiN COATED	
				Tool Number	Price Each	Tool Number	Price Each
.005"	3/64"	1/8"	1-1/2"	99005FL	\$28.50	99005FLT	\$32.50
.010"	3/64"	1/8"	1-1/2"	99010FL	\$28.50	99010FLT	\$32.50
.015"	3/64"	1/8"	1-1/2"	99015FL	\$28.50	99015FLT	\$32.50
.020"	3/64"	1/8"	1-1/2"	99020FL	\$28.50	99020FLT	\$32.50
.025"	3/64"	1/8"	1-1/2"	99025FL	\$28.50	99025FLT	\$32.50
.030"	3/64"	1/8"	1-1/2"	99030FL	\$28.50	99030FLT	\$32.50
.031"	3/64"	1/8"	1-1/2"	99031FL	\$28.50	99031FLT	\$32.50
.035"	3/64"	1/8"	1-1/2"	99035FL	\$28.50	99035FLT	\$32.50
.040"	3/64"	1/8"	1-1/2"	99040FL	\$35.50	99040FLT	\$40.75
.043"	3/64"	3/16"	2"	99043FL	\$35.50	99043FLT	\$40.75
.047"	3/64"	3/16"	2"	99047FL	\$35.50	99047FLT	\$40.75
.060"	3/64"	3/16"	2"	99060FL	\$35.50	99060FLT	\$40.75
.062"	3/64"	3/16"	2"	99062FL	\$35.50	99062FLT	\$40.75
.078"	3/64"	1/4"	2"	99078FL	\$41.50	99078FLT	\$47.50
.093"	3/64"	1/4"	2"	99093FL	\$41.50	99093FLT	\$47.50
.125"	1/16"	5/16"	2-1/2"	99125FL	\$60.50	99125FLT	\$67.50

ORDER SPECIAL 2-FLUTE CORNER ROUNDING END MILLS



Please specify:

1. ☐ Single End or ☐ Double End.
2. Radius (R): _____
3. Pilot (P): _____
4. Flare Angle (A1): _____
5. Flare Angle (A2): _____
6. Shank Diameter (S): _____
7. Quantity (Minimum 6): _____
8. Overall Length: Mfg. Standard

**Special
2-Flute
Corner Rounding
End Mills**

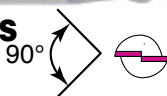
90 DEGREE DRILL MILLS 2 & 4 FLUTE

Microcut

90-DEGREE CARBIDE DRILL MILLS

2 FLUTE - For Drilling & Milling Applications

UNCOATED & **AlTiN COATED**



TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Uncoated	AlTiN Coated					Uncoated	AlTiN Coated
92015	92015TL	.015"	.045"	1/8"	1-1/2"	\$29.70	\$33.75
92020	92020TL	.020"	.060"	1/8"	1-1/2"	\$29.70	\$33.75
92025	92025TL	.025"	.075"	1/8"	1-1/2"	\$29.70	\$33.75
92030	92030TL	1/32"	3/32"	1/8"	1-1/2"	\$22.50	\$26.50
92045	92045TL	3/64"	9/64"	1/8"	1-1/2"	\$22.50	\$26.50
92060	92060TL	1/16"	3/16"	1/8"	1-1/2"	\$18.95	\$22.95
92094	92094TL	3/32"	3/8"	1/8"	1-1/2"	\$18.95	\$22.95
92125	92125TL	1/8"	1/2"	1/8"	1-1/2"	\$17.95	\$21.95
92187	92187TL	3/16"	5/8"	3/16"	2"	\$21.95	\$25.95
92250	92250TL	1/4"	3/4"	1/4"	2-1/2"	\$27.50	\$32.95
92312	92312TL	5/16"	13/16"	5/16"	2-1/2"	\$32.50	\$38.50
92375	92375TL	3/8"	1"	3/8"	2-1/2"	\$39.75	\$47.75
92500	92500TL	1/2"	1"	1/2"	3"	\$58.50	\$68.50
92625	92625TL	5/8"	1-1/4"	5/8"	3-1/2"	\$112.75	\$124.75
92750	92750TL	3/4"	1-1/2"	3/4"	4"	\$169.50	\$183.50

4 FLUTE



TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Uncoated	AlTiN Coated					Uncoated	AlTiN Coated
94030	94030TL	1/32"	3/32"	1/8"	1-1/2"	\$22.50	\$26.50
94045	94045TL	3/64"	9/64"	1/8"	1-1/2"	\$22.50	\$26.50
94060	94060TL	1/16"	3/16"	1/8"	1-1/2"	\$18.95	\$22.95
94094	94094TL	3/32"	3/8"	1/8"	1-1/2"	\$18.95	\$22.95
94125	94125TL	1/8"	1/2"	1/8"	1-1/2"	\$17.95	\$21.95
94187	94187TL	3/16"	5/8"	3/16"	2"	\$21.95	\$25.95
94250	94250TL	1/4"	3/4"	1/4"	2-1/2"	\$27.50	\$32.95
94312	94312TL	5/16"	13/16"	5/16"	2-1/2"	\$32.50	\$38.50
94375	94375TL	3/8"	1"	3/8"	2-1/2"	\$39.75	\$47.75
94500	94500TL	1/2"	1"	1/2"	3"	\$58.50	\$68.50
94625	94625TL	5/8"	1-1/4"	5/8"	3-1/2"	\$112.75	\$124.75
94750	94750TL	3/4"	1-1/2"	3/4"	4"	\$169.50	\$183.50

Microcut

60-DEGREE CARBIDE DRILL MILLS

2 FLUTE - 60° INCLUDED POINT - MICRO GRAIN CARBIDE

UNCOATED & **AlTiN COATED**



TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Uncoated	AlTiN Coated					Uncoated	AlTiN Coated
96030	96030TL	1/32"	3/32"	1/8"	1-1/2"	\$25.95	\$29.95
96045	96045TL	3/64"	9/64"	1/8"	1-1/2"	\$25.95	\$29.95
96060	96060TL	1/16"	3/16"	1/8"	1-1/2"	\$22.95	\$26.95
96094	96094TL	3/32"	3/8"	1/8"	1-1/2"	\$22.95	\$26.95
96125	96125TL	1/8"	1/2"	1/8"	1-1/2"	\$22.95	\$26.95
96187	96187TL	3/16"	5/8"	3/16"	2"	\$24.95	\$28.95
96250	96250TL	1/4"	3/4"	1/4"	2-1/2"	\$31.75	\$36.75
96312	96312TL	5/16"	13/16"	5/16"	2-1/2"	\$36.50	\$41.50
96375	96375TL	3/8"	1"	3/8"	2-1/2"	\$41.50	\$49.50
96500	96500TL	1/2"	1"	1/2"	3"	\$58.50	\$69.50

Recommended for non-ferrous materials.

120-DEGREE CARBIDE DRILL MILLS

4 FLUTE

UNCOATED & **AlTiN COATED**



TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Uncoated	AlTiN Coated					Uncoated	AlTiN Coated
95030	95030TL	1/32"	3/32"	1/8"	1-1/2"	\$25.95	\$29.95
95045	95045TL	3/64"	9/64"	1/8"	1-1/2"	\$25.95	\$29.95
95060	95060TL	1/16"	3/16"	1/8"	1-1/2"	\$22.95	\$26.95
95094	95094TL	3/32"	3/8"	1/8"	1-1/2"	\$22.95	\$26.95
95125	95125TL	1/8"	1/2"	1/8"	1-1/2"	\$22.95	\$26.95
95187	95187TL	3/16"	5/8"	3/16"	2"	\$24.95	\$28.95
95250	95250TL	1/4"	3/4"	1/4"	2-1/2"	\$31.75	\$36.75
95312	95312TL	5/16"	13/16"	5/16"	2-1/2"	\$36.50	\$41.50
95375	95375TL	3/8"	1"	3/8"	2-1/2"	\$41.50	\$49.50
95500	95500TL	1/2"	1"	1/2"	3"	\$59.75	\$69.50

For cutting mild steel, stainless steel, and alloyed steels.

MINIATURE KEYSEAT CUTTERS

Microcut

MINIATURE KEYSEAT CUTTERS - 1/16" TO 3/32" DIA. MICROGRAIN CARBIDE - 4 FLUTES UNCOATED & **AITiN** COATED



TOOL NUMBER		Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	PRICE EACH	
Not Coated	AITiN Coated					Not Coated	AITiN Coated
28400	28400TL	1/16"	.015"	.031"	3/32"	\$34.50	\$38.50
28405	28405TL	1/16"	.031"	.031"	3/23"	\$34.50	\$38.50
28410	28410TL	1/16"	.047"	.031"	3/32"	\$34.50	\$38.50
28415	28415TL	1/16"	.062"	.031"	3/32"	\$34.50	\$38.50
28500	28500TL	5/64"	.015"	.040"	1/8"	\$34.50	\$38.50
28505	28505TL	5/64"	.031"	.040"	1/8"	\$34.50	\$38.50
28510	28510TL	5/64"	.047"	.040"	1/8"	\$34.50	\$38.50
28515	28515TL	5/64"	.062"	.040"	1/8"	\$34.50	\$38.50
28600	28600TL	3/32"	.015"	.047"	5/32"	\$34.50	\$38.50
28605	28605TL	3/32"	.031"	.047"	5/32"	\$34.50	\$38.50
28610	28610TL	3/32"	.047"	.047"	5/32"	\$34.50	\$38.50
28615	28615TL	3/32"	.062"	.047"	5/32"	\$34.50	\$38.50

ORDER SPECIAL WIDTH KEYSEAT CUTTERS 1/8", 3/16" AND 1/4" DIAMETERS - 6 FLUTES MIN. 3 TOOLS PER SIZE

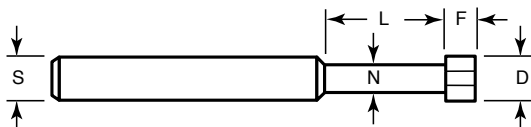


UNCOATED & **AITiN** COATED

Tool Number		Cutter & Shank Dia.	Cutter Width	Neck Dia.	Neck Length	Price Each	
No Coat	Coated					No Coat	Coated
28000SP	28000SPT	1/8	.015-.125	.062	3/16	\$69.00	\$79.00
28100SP	28100SPT	3/16	.015-.187	.093	9/32	\$72.00	\$84.00
28300SP	28300SPT	1/4	.015-.250	.125	3/8	\$75.00	\$89.00

TOOL NUMBER: ADD DECIMAL SIZE TO TOOL NO. IN CHART.
EXAMPLE: 28100SPT-114 IS FOR A 3/16" DIA. X .114" CUTTER WIDTH.
LONGER NECK TOOLS QUOTED ON REQUEST.
DELIVERY: 7-10 DAYS FOR UNCOATED TOOLS. ADD 1 ADDITIONAL WEEK FOR ALTiN COATING.

ORDER SPECIAL 6-FLUTE KEYSEAT CUTTERS



To order special Keyseat Cutters please specify:

- Shank Dia. (S): _____
- Cutter Dia. (D): _____
- Flute Length (F): _____
- Neck Length (L): _____
- Neck Dia. (N): _____
- Quantity (Min. 6): _____
- Overall Length: Mfg. Standard

MINIATURE KEYSEAT CUTTERS

Microcut

MINIATURE KEYSEAT CUTTERS

SOLID CARBIDE - 6 FLUTES - 1/8", 3/16", 1/4" DIAMETER

UNCOATED & AlTiN COATED



O.A.L. is 1-1/2" for First Series Below

TOOL NUMBER		Cutter & Shank Dia.	Cutter Width	Neck Dia.	Neck Length	PRICE EACH	
Not Coated	AlTiN Coated					Not Coated	AlTiN Coated
28000	28000TL	1/8"	.015"	.062"	3/16	\$32.50	\$36.50
28000L	28000LT	1/8"	.015"	.062"	3/8	\$38.50	\$42.50
28005	28005TL	1/8"	.031"	.062"	3/16	\$32.50	\$36.50
28005L	28005LT	1/8"	.031"	.062"	3/8	\$38.50	\$42.50
28010	28010TL	1/8"	.047"	.062"	3/16	\$32.50	\$36.50
26010L	28010LT	1/8"	.047"	.062"	3/8	\$38.50	\$42.50
28015	28015TL	1/8"	.062"	.062"	3/16	\$32.50	\$36.50
28015L	28015LT	1/8"	.062"	.062"	3/8	\$38.50	\$42.50
28020	28020TL	1/8"	.093"	.062"	3/16	\$32.50	\$36.50
28020L	28020LT	1/8"	.093"	.062"	3/8	\$38.50	\$42.50
28025	28025TL	1/8"	.125"	.062"	3/16	\$32.50	\$36.50
28025L	28025LT	1/8"	.125"	.062"	3/8	\$38.50	\$42.50

O.A.L. is 2" for Series Below

28100	28100TL	3/16"	.015"	.093"	9/32	\$33.75	\$37.95
28100L	28100LT	3/16"	.015"	.093"	1/2	\$42.75	\$46.95
28105	28105TL	3/16"	.031"	.093"	9/32	\$33.75	\$37.95
28105L	28105LT	3/16"	.031"	.093"	1/2	\$42.75	\$46.95
28110	28110TL	3/16"	.047"	.093"	9/32	\$33.75	\$37.95
28110L	28110LT	3/16"	.047"	.093"	1/2	\$42.75	\$46.95
28115	28115TL	3/16"	.062"	.093"	9/32	\$33.75	\$37.95
28115L	28115LT	3/16"	.062"	.093"	1/2	\$42.75	\$46.95
28120	28120TL	3/16"	.093"	.093"	5/16	\$33.75	\$37.95
28120L	28120LT	3/16"	.093"	.093"	9/16	\$42.75	\$46.95
28125	28125TL	3/16"	.125"	.093"	5/16	\$33.75	\$37.95
28125L	28125LT	3/16"	.125"	.093"	9/16	\$42.75	\$46.95
28130	28130TL	3/16"	.187"	.093"	5/16	\$33.75	\$37.95
28130L	28130LT	3/16"	.187"	.093"	9/16	\$42.75	\$46.95

O.A.L. is 2-1/2" for Series Below

28300	28300TL	1/4"	.015"	.125"	3/8	\$35.95	\$41.95
28300L	28300LT	1/4"	.015"	.125"	3/4	\$44.95	\$50.95
28305	28305TL	1/4"	.031"	.125"	3/8	\$35.95	\$41.95
28305L	28305LT	1/4"	.031"	.125"	3/4	\$44.95	\$50.95
28310	28310TL	1/4"	.047"	.125"	3/8	\$35.95	\$41.95
28310L	28310LT	1/4"	.047"	.125"	3/4	\$44.95	\$50.95
28315	28315TL	1/4"	.062"	.125"	3/8	\$35.95	\$41.95
28315L	28315LT	1/4"	.062"	.125"	3/4	\$44.95	\$50.95
28320	28320TL	1/4"	.125"	.125"	3/8	\$35.95	\$41.95
28320L	28320LT	1/4"	.125"	.125"	3/4	\$44.95	\$50.95
28325	28325TL	1/4"	.187"	.125"	3/8	\$35.95	\$41.95
28325L	28325LT	1/4"	.187"	.125"	3/4	\$44.95	\$50.95
28330	28330TL	1/4"	.250"	.125"	3/8	\$35.95	\$41.95
28330L	28330LT	1/4"	.250"	.125"	3/4	\$44.95	\$50.95

HELICAL THREAD MILLING CUTTERS

MicroCUT

HELICAL CARBIDE THREAD MILLING CUTTERS UN THREAD FORM - AITiN COATED



Tool Number	Thread Size	Cutter Dia.	Shank Dia.	Length of Cut	No. Flutes	O.A.L.	Price Each
44002	#2-56	.065"	1/8"	.125"	3	2"	\$69.50
44004	#4-40	.085"	1/8"	.175"	3	2"	\$72.50
44006	#6-32	.100"	1/8"	.218"	3	2"	\$72.50
44008	#8-32	.115"	1/8"	.250"	3	2"	\$76.50
44009	#10-24	.120"	1/8"	.312"	3	2"	\$78.50
44010	#10-32	.120"	1/8"	.312"	3	2"	\$78.50
44101	1/4-20	.180"	3/16"	.500"	3	2-1/2"	\$97.50
44102	1/4-28	.180"	3/16"	.500"	3	2-1/2"	\$97.50
44201	5/16-18	.235"	1/4"	.625"	3	2-1/2"	\$99.75
44202	5/16-24	.235"	1/4"	.625"	3	2-1/2"	\$118.50
44301	3/8-16	.285"	5/16"	.750"	4	3"	\$128.50
44302	3/8-24	.285"	5/16"	.750"	4	3"	\$142.00
44401	7/16-14	.305"	5/16"	.750"	4	3"	\$128.50
44402	7/16-20	.335"	3/8"	.875"	4	3-1/2"	\$159.50
44501	1/2-13	.350"	3/8"	.875"	4	3-1/2"	\$159.50
44502	1/2-20	.350"	3/8"	.875"	4	3-1/2"	\$159.50
44601	9/16-12	.370"	3/8"	.875"	4	3-1/2"	\$159.50
44602	9/16-18	.370"	3/8"	.875"	4	3-1/2"	\$159.50
44701	5/8-11	.470"	1/2"	1.25"	4	3-1/2"	\$196.50
44801	3/4-10	.495"	1/2"	1.25"	4	3-1/2"	\$199.50
44802	3/4-12	.495"	1/2"	1.25"	4	3-1/2"	\$199.50
44803	3/4-16	.490"	1/2"	1.25"	4	3-1/2"	\$209.50
44901	7/8-9	.620"	5/8"	1.375"	4	3-1/2"	\$239.50
44902	7/8-14	.620"	5/8"	1.25"	4	3-1/2"	\$239.50
44950	1-8	.620"	5/8"	1.375"	4	4"	\$239.50

Designed for internal and external threads.

Tools cut right hand or left hand.

AITiN Coated for maximum wear resistance.

CNC ground-Micrograin Carbide.

THREADMILLS - CALCULATION FORMULAS

Use these formulas to calculate:

Feed Rate Adjustment:

$$\frac{(\text{Thread Major Diameter to Be Cut}) - (\text{Threadmill Dia.})}{(\text{Thread Major Dia. to Be Cut})} \times \text{Linear Feed Rate}$$

RPM:

$$\frac{3.8}{(\text{Threadmill Diameter})} \times \text{SFM}$$

Linear IPM:

$$(\text{Inches Per Tooth}) \times (\text{Number of Flutes}) \times \text{RPM}$$

HELICAL THREAD MILLING CUTTERS

Microcut

HELICAL CARBIDE THREAD MILLING CUTTERS

N.P.T. - AITiN COATED



Tool Number	Thread Size	Pitch	Cutter Dia. (Lg. End)	Shank Dia.	Length of Cut	No. Flutes	O.A.L.	Price Each
45501	1/16	27	.245"	1/4"	.437"	3	2-1/2"	\$109.50
45511	1/8	27	.310"	5/16"	.437"	4	2-1/2"	\$109.50
45502	1/4	18	.370"	3/8"	.625"	4	3"	\$149.75
45512	3/8	18	.370"	3/8"	.625"	4	3"	\$149.75
45503	1/2	14	.495"	1/2"	.875"	4	3-1/2"	\$179.50
45513	3/4	14	.495"	1/2"	.875"	4	3-1/2"	\$179.50
45504	1 & 2	11.5	.620"	3/4"	1.125"	5	4"	\$239.50

Designed for internal & external threads. Tools cut right hand or left hand.

AlTiN Coated for maximum wear resistance.

CNC ground-Micrograin Carbide.

NPTF DRYSEAL PIPE THREAD

AITiN COATED



Tool Number	Thread Size	Pitch	Cutter Dia. (Lg. End)	Shank Dia.	Length of Cut	No. Flutes	O.A.L.	Price Each
45601	1/16	27	.245"	1/4"	.437"	3	2-1/2"	\$109.50
45611	1/8	27	.310"	5/16"	.437"	4	2-1/2"	\$109.50
45602	1/4	18	.370"	3/8"	.625"	4	3"	\$149.75
45612	3/8	18	.370"	3/8"	.625"	4	3"	\$149.75
45603	1/2	14	.495"	1/2"	.875"	4	3-1/2"	\$179.50
45613	3/4	14	.495"	1/2"	.875"	4	3-1/2"	\$179.50
45604	1 & 2	11.5	.620"	3/4"	1.125"	5	4"	\$239.50

THREADMILLS FEEDS & SPEEDS

Workpiece Material	SPEED SFM	TOOL CUTTING DIAMETER / FEEDRATE (inches/tooth)				
		3/16	1/4	5/16	3/8	1/2
Aluminum	800-1400	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0055
Brass	600-800	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0055
Bronze	500-600	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0055
Low Alloy Steel <25RC	350-500	.001-.0015	.0015-.0025	.002-.003	.0025-.0035	.003-.004
High Alloy Steel >25RC	250-400	.0005-.001	.0008-.0015	.001-.002	.0015-.0025	.002-.003
Stainless	150-250	.0006-.001	.001-.0015	.0015-.002	.0015-.0030	.002-.0035
Titanium	80-150	.0005-.001	.0008-.0015	.001-.002	.0015-.0025	.0015-.0025

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

HELICAL THREAD MILLING CUTTERS

Microcut

HELICAL CARBIDE THREAD MILLING CUTTERS METRIC THREAD - **AlTiN COATED**



Tool Number	Thread Size	Pitch	Cutter Dia.	Shank Dia.	Length of Cut	No. Flts	O.A.L.	Price Each
43909	M4-0.70	0.70	.115	1/8	.250	3	2	\$92.75
43910	M4.5-0.75	0.75	.120	1/8	.250	3	2	\$92.75
43911	M5-0.80	0.80	.120	3/16	.312	3	2	\$92.75
43917	M6-1.00	1.00	.170	3/16	.500	3	2-1/2	\$111.75
43921	M8-0.75	0.75	.235	1/4	.625	3	2-1/2	\$119.75
43922	M8-1.00	1.00	.235	1/4	.625	3	2-1/2	\$119.75
43923	M8-1.25	1.25	.235	1/4	.625	3	2-1/2	\$119.75
43928	M10-1.25	1.25	.300	5/16	.750	4	3	\$157.75
43929	M10-1.50	1.50	.300	5/16	.750	4	3	\$157.75
43933	M12-1.00	1.00	.360	3/8	.875	4	3-1/2	\$172.50
43934	M12-1.25	1.25	.360	3/8	.875	4	3-1/2	\$172.50
43935	M12-1.75	1.75	.360	3/8	.875	4	3-1/2	\$172.50
43941	M14-1.50	1.50	.360	3/8	.875	4	3-1/2	\$172.50
43947	M16-2.00	2.00	.470	1/2	1.250	5	3-1/2	\$212.75
43954	M18-2.50	2.50	.470	1/2	1.250	5	3-1/2	\$224.50
43960	M20-3.00	3.00	.479	5/8	1.250	5	3-1/2	\$224.50

Designed for internal and external threads.

Tools cut right hand or left hand.

AlTiN Coated for maximum wear resistance.

THREADMILLS - CALCULATION FORMULAS

Use these formulas to calculate:

Feed Rate Adjustment:

$$\frac{(\text{Thread Major Diameter to Be Cut}) - (\text{Threadmill Dia.})}{(\text{Thread Major Dia. to Be Cut})} \times \text{Linear Feed Rate}$$

RPM:

$$\frac{3.8}{(\text{Threadmill Diameter})} \times \text{SFM}$$

Linear IPM:

$$(\text{Inches Per Tooth}) \times (\text{Number of Flutes}) \times \text{RPM}$$

SINGLE FORM THREAD MILLING CUTTERS

Microcut

SINGLE FORM THREAD MILLING CUTTERS MILLS ANY PITCH INCLUDING METRIC SIZES

UNCOATED



Tool Number	Thread Size	Cutter Dia.	Neck Dia.	Neck Length*	O.A.L.	Shank Dia.	No. Flutes	Price Each
48003	#3	.072"	.040	.160	2	3/16	1	\$69.75
48004	#4	.080"	.050	.190	2	3/16	1	\$69.75
48006	#6	.098"	.055	.260	2	3/16	2	\$69.75
48008	#8	.128"	.083	.320	2	3/16	3	\$69.75
48010	#10	.139"	.081	.380	2	3/16	3	\$69.75
48250	1/4	.188"	.124	.400	2	1/4	4	\$74.75
48312	5/16	.247"	.175	.500	2-1/2	3/8	4	\$89.50
48375	3/8	.300"	.218	.600	2-1/2	3/8	4	\$89.50
48500	1/2	.420"	.300	.800	2-1/2	1/2	6	\$99.50

*Neck length is measured from tip of tool.

CARBIDE THREAD MILLING CUTTERS

AITiN COATED



Tool Number	Thread Size	Cutter Dia.	Neck Dia.	Neck Length*	O.A.L.	Shank Dia.	No. Flutes	Price Each
48003TL	#3	.072"	.040	.160	2	3/16	1	\$75.75
48004TL	#4	.080"	.050	.190	2	3/16	1	\$75.75
48006TL	#6	.098"	.055	.260	2	3/16	2	\$75.75
48008TL	#8	.128"	.083	.320	2	3/16	3	\$75.75
48010TL	#10	.139"	.081	.380	2	3/16	3	\$75.75
48250TL	1/4	.188"	.124	.400	2	1/4	4	\$82.75
48312TL	5/16	.247"	.175	.500	2-1/2	3/8	4	\$97.50
48375TL	3/8	.300"	.218	.600	2-1/2	3/8	4	\$97.50
48500TL	1/2	.420"	.300	.800	2-1/2	1/2	6	\$109.50

*Neck length is measured from tip of tool.

Suggested Starting Data:

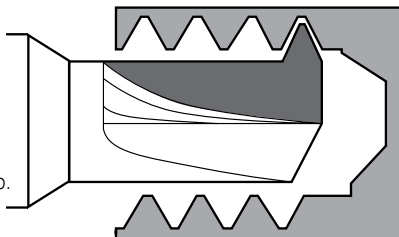
Ferrous

150/300 SFM; .0003/.001 IPT

Non-Ferrous

500/1K SFM; .0005/.0015 IPT

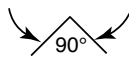
Interpolate Helix from bottom up.



DOUBLE ANGLE CUTTERS

Microcut

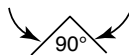
90° DOUBLE ANGLE CUTTER - CARBIDE



Tool Number	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	No. Flutes	Shank Dia.	O.A.L.	Price Each
49062	1/16"	.031	.031	.093	2	1/8"	1-1/2"	\$30.50
49078	5/64"	.039	.039	.118	2	1/8"	1-1/2"	\$30.50
49093	3/32"	.047	.047	.141	2	1/8"	1-1/2"	\$30.50
49125	1/8"	.062	.062	.250	3	1/8"	1-1/2"	\$30.50
49187	3/16"	.093	.093	.312	4	3/16"	2"	\$31.50
49250	1/4"	.125	.125	.375	4	1/4"	2-1/2"	\$38.90
49312	5/16"	.156	.156	.500	4	5/16"	2-1/2"	\$47.90
49375	3/8"	.187	.187	.625	6	3/8"	2-1/2"	\$54.90
49500	1/2"	.250	.250	.750	6	1/2"	2-1/2"	\$72.90

90° DOUBLE ANGLE CUTTER - CARBIDE

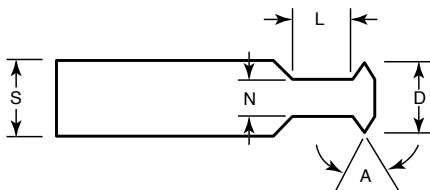
AlTiN COATED



Tool Number	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	No. Flutes	Shank Dia.	O.A.L.	Price Each
49062TL	1/16"	.031	.031	.093	2	1/8"	1-1/2"	\$34.95
49078TL	5/64"	.039	.039	.118	2	1/8"	1-1/2"	\$34.95
49093TL	3/32"	.047	.047	.141	2	1/8"	1-1/2"	\$34.95
49125TL	1/8"	.062	.062	.250	3	1/8"	1-1/2"	\$34.95
49187TL	3/16"	.093	.093	.312	4	3/16"	2"	\$36.50
49250TL	1/4"	.125	.125	.375	4	1/4"	2-1/2"	\$44.90
49312TL	5/16"	.156	.156	.500	4	5/16"	2-1/2"	\$54.90
49375TL	3/8"	.187	.187	.625	6	3/8"	2-1/2"	\$62.90
49500TL	1/2"	.250	.250	.750	6	1/2"	2-1/2"	\$82.90

NOTE: Neck length is measured behind the cutter.
Cutter may be used for back chamfering.

ORDER SPECIAL DOUBLE ANGLE CUTTERS



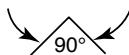
To order special double angle cutters please specify:

1. Cutter Dia. (D): _____
2. Incl. Angle (A): _____
3. Neck Length (L): _____
(Behind Cutter)
4. Neck Dia. (N): _____
5. Shank Dia. (S): _____
6. Overall Length: Mfg. Std.
7. Quantity (Minimum 6): _____

DOUBLE ANGLE CUTTERS

Microcut

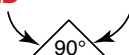
90° LONG REACH DOUBLE ANGLE CUTTER CARBIDE



Tool Number	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	No. Flutes	Shank Dia.	O.A.L.	Price Each
49125LR	1/8"	1/16"	1/16"	1/2"	3	1/8"	1-1/2"	\$34.95
49187LR	3/16"	3/32"	3/32"	5/8"	4	3/16"	2"	\$35.95
49250LR	1/4"	1/8"	1/8"	1"	4	1/4"	2-1/2"	\$43.95
49312LR	5/16"	5/32"	5/32"	1"	4	5/16"	2-1/2"	\$54.50
49375LR	3/8"	3/16"	3/16"	1-1/8"	6	3/8"	2-1/2"	\$64.95
49500LR	1/2"	1/4"	1/4"	1-1/4"	6	1/2"	3"	\$88.50

90° LONG REACH DOUBLE ANGLE CUTTER CARBIDE

AITiN COATED



Tool Number	Cutter Dia.	Cutter Width	Neck Dia.	Neck Length	No. Flutes	Shank Dia.	O.A.L.	Price Each
49125LRT	1/8"	1/16"	1/16"	1/2"	3	1/8"	1-1/2"	\$38.95
49187LRT	3/16"	3/32"	3/32"	5/8"	4	3/16"	2"	\$39.95
49250LRT	1/4"	1/8"	1/8"	1"	4	1/4"	2-1/2"	\$49.95
49312LRT	5/16"	5/32"	5/32"	1"	4	5/16"	2-1/2"	\$61.50
49375LRT	3/8"	3/16"	3/16"	1-1/8"	6	3/8"	2-1/2"	\$72.95
49500LRT	1/2"	1/4"	1/4"	1-1/4"	6	1/2"	3"	\$99.50

NOTE: Neck length is measured behind the cutter.

MULTI ANGLE DOUBLE ANGLE CUTTER

1/4" SHANK - 2-1/2" OAL

4 FLUTES

1/4" CUTTER DIA.



UNCOATED &

ALTiN COATED



TOOL NUMBER		Incl'd Angle	Cutter Width	Neck Dia	Neck Length	PRICE EACH	
Uncoated	AITiN Coated					Uncoated	AITiN Coated
49250-30	49250T-30	30	.033"	.125"	.375"	\$44.50	\$49.90
49250-45	49250T-45	45	.052"	.125"	.375"	\$44.50	\$49.90
49250-60	49250T-60	60	.072"	.125"	.375"	\$44.50	\$49.90
49250-90	49250T-90	90	.125"	.125"	.375"	\$38.90	\$44.90
49250-120	49250T-120	120	.215"	.125"	.375"	\$44.50	\$49.90

NOTE: Neck length is measured behind the cutter head.

Longer reach neck lengths, quoted on request. Minimum Order 3 pieces.

TOLL FREE 866-426-3300 • FAX 781-582-8095
www.microcutUSA.com • info@microcutUSA.com

90° SPOT DRILLS

Microcut

MINIATURE 90° "DEAD CENTER" SPOT DRILLS

MICROGRAIN CARBIDE

1/8" SHANK DIA. - 1-1/2" O.A.L.

2-FLUTE

UNCOATED & AITiN COATED



TOOL NUMBER		Drill Diameter	Length of Cut	PRICE EACH	
Uncoated	AITiN			Uncoated	AITiN
22010	24010	.010"	.030"	\$23.75	\$28.75
22015	24015	.015"	.045"	\$22.50	\$26.50
22020	24020	.020"	.060"	\$20.50	\$24.50
22025	24025	.025"	.075"	\$19.95	\$23.95
22030	24030	.030"	.090"	\$19.50	\$23.50
22045	24045	.045"	.135"	\$16.95	\$20.95
22060	24060	.060"	.180"	\$16.95	\$20.95
22090	24090	.090"	.270"	\$16.95	\$20.95
22125	24125	.125"	.375"	\$16.95	\$20.95

Thinned web at tip insures accuracy. Special spot drills quoted on request.

EXTENDED REACH SPOT DRILLS

1/8" SHANK DIA. - MIN. 3 PIECES PER SIZE

2 FLUTE - 90° POINT

UNCOATED & AITiN COATED

Shipped
Within 24-48
Hours



TOOL NUMBER		Drill Diameter	Length of Cut	Reach From Tip	PRICE EACH	
Uncoated	AITiN				Uncoated	AITiN
22015LR	24015LR	.015"	.045"	.125"	\$31.50	\$35.50
22020LR	24020LR	.020"	.060"	.165"	\$29.50	\$33.50
22025LR	24025LR	.025"	.075"	.205"	\$28.50	\$32.50
22030LR	24030LR	.030"	.090"	.250"	\$27.50	\$31.50
22045LR	24045LR	.045"	.135"	.400"	\$24.50	\$28.50
22060LR	24060LR	.060"	.180"	.500"	\$24.50	\$28.50
22090LR	24090LR	.090"	.270"	.500"	\$24.50	\$28.50
22125LR	24125LR	.125"	.375"	.625"	\$24.50	\$28.50

Neck diameter is same as cutter diameter

140 DEG. MINIATURE SPOT DRILLS

MICROGRAIN CARBIDE - 1/8" SHANK DIA. - 2 FLUTE

UNCOATED & AITiN COATED



TOOL NUMBER		Drill Diameter	Length of Cut	PRICE EACH	
Uncoated	AITiN			Uncoated	AITiN
26015	26215	.015"	.045"	\$22.50	\$26.50
26020	26220	.020"	.060"	\$20.50	\$24.50
26025	26225	.025"	.075"	\$19.95	\$23.95
26030	26230	.030"	.090"	\$19.50	\$23.50
26045	26245	.045"	.135"	\$16.95	\$20.95
26060	26260	.060"	.180"	\$16.95	\$20.95
26090	26290	.090"	.270"	\$16.95	\$20.95
26125	26325	.125"	.375"	\$16.95	\$20.95

Extended reach spot drills available on request. Minimum 3 pieces per size.

HEAVY DUTY ENGRAVING CUTTERS

Microcut



MINIATURE 120° "DEAD CENTER" SPOT DRILLS

MICROGRAIN CARBIDE

1/8" SHANK DIA. - 1-1/2" O.A.L.

2-FLUTE



UNCOATED & AITiN COATED

TOOL NUMBER		Drill Diameter	Length of Cut	PRICE EACH	
Uncoated	AITiN			Uncoated	AITiN
23015	25015	.015"	.045"	\$22.50	\$26.50
23020	25020	.020"	.060"	\$20.50	\$24.50
23025	25025	.025"	.075"	\$19.95	\$23.95
23030	25030	.030"	.090"	\$19.50	\$23.50
23045	25045	.045"	.135"	\$16.95	\$20.95
23060	25060	.060"	.180"	\$16.95	\$20.95
23090	25090	.090"	.270"	\$16.95	\$20.95
23125	25125	.125"	.375"	\$16.95	\$20.95

EXTENDED REACH SPOT DRILLS

1/8" SHANK DIA. - MIN. 3 PIECES PER SIZE

2 FLUTE - 120° POINT



UNCOATED & AITiN COATED

TOOL NUMBER		Drill Diameter	Length of Cut	Reach From Tip	PRICE EACH	
Uncoated	AITiN				Uncoated	AITiN
23015LR	25015LR	.015"	.045"	.125"	\$31.50	\$35.50
23020LR	25020LR	.020"	.060"	.165"	\$29.50	\$33.50
23025LR	25025LR	.025"	.075"	.205"	\$28.50	\$32.50
23030LR	25030LR	.030"	.090"	.250"	\$27.50	\$31.50
23045LR	25045LR	.045"	.135"	.400"	\$24.50	\$28.50
23060LR	25060LR	.060"	.180"	.500"	\$24.50	\$28.50
23090LR	25090LR	.090"	.270"	.500"	\$24.50	\$28.50
23125LR	25125LR	.125"	.375"	.625"	\$24.50	\$28.50

MINIATURE N/C SPOTTING DRILLS

SOLID CARBIDE

1/8" - 1/4" DIA.

90, 120 & 140 DEGREE INCL. POINT ANGLES



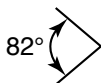
Tool Number	Cutter Diameter	Included Angle	Shank Diameter	O.A.L.	Price Each
NC125-90	1/8"	90 DEG	1/8"	2"	\$13.95
NC187-90	3/16"	90 DEG	3/16"	2"	\$16.95
NC250-90	1/4"	90 DEG	1/4"	3"	\$19.95
NC125-120	1/8"	120 DEG	1/8"	2"	\$13.95
NC187-120	3/16"	120 DEG	3/16"	2"	\$16.95
NC250-120	1/4"	120 DEG	1/4"	3"	\$19.95
NC125-140	1/8"	140 DEG	1/8"	2"	\$13.95
NC187-140	3/16"	140 DEG	3/16"	2"	\$16.95
NC250-140	1/4"	140 DEG	1/4"	3"	\$19.95



82° CARBIDE COUNTERSINKS

DOUBLE END - 6 FLUTES - RHC

UNCOATED & **AlTiN**



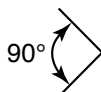
TOOL NUMBER		Cutter Dia.	Max. Tip Dia.	Shank Dia.	O.A.L.	PRICE EACH	
Not Coated	AlTiN Coated					Not Coated	AlTiN Coated
31125	31125TL	1/8"	.025"	1/8"	1-1/2"	\$21.50	\$26.50
31187	31187TL	3/16"	.035"	3/16"	2"	\$26.90	\$32.50
31250	31250TL	1/4"	.045"	1/4"	2"	\$32.50	\$39.50
31312	31312TL	5/16"	.055"	5/16"	2-1/2"	\$49.50	\$59.50
31375	31375TL	3/8"	.060"	3/8"	2-1/2"	\$64.50	\$77.50
31500	31500TL	1/2"	.090"	1/2"	3"	\$88.50	\$99.75

AlTiN coating for hard to machine mold steel and alloyed steel.

90° CARBIDE COUNTERSINKS

DOUBLE END - 6 FLUTES - RHC

UNCOATED & **AlTiN**



TOOL NUMBER		Cutter Dia.	Max. Tip Dia.	Shank Dia.	O.A.L.	PRICE EACH	
Not Coated	AlTiN Coated					Not Coated	AlTiN Coated
32125	32125TL	1/8"	.025"	1/8"	1-1/2"	\$21.50	\$26.50
32187	32187TL	3/16"	.035"	3/16"	2"	\$26.90	\$32.50
32250	32250TL	1/4"	.045"	1/4"	2"	\$32.50	\$39.50
32312	32312TL	5/16"	.055"	5/16"	2-1/2"	\$49.50	\$59.50
32375	32375TL	3/8"	.060"	3/8"	2-1/2"	\$64.50	\$77.50
32500	32500TL	1/2"	.090"	1/2"	3"	\$88.50	\$99.75

AlTiN coating for hard to machine mold steel and alloyed steel.

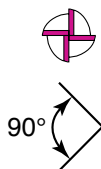


90° "DRILL POINT" COUNTERSINKS

DRILL & COUNTERSINK IN ONE OPERATION

SOLID CARBIDE - DOUBLE END - 4 FLUTES

END CUTTING - 90 DEGREE INCLUDED ANGLE



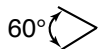
Tool Number	C'Sink Diameter	Shank Diameter	O.A.L.	Price Each
33125	1/8"	1/8"	1-1/2"	\$23.95
33187	3/16"	3/16"	2"	\$31.50
33250	1/4"	1/4"	2"	\$39.50
33312	5/16"	5/16"	2-1/2"	\$59.50
33375	3/8"	3/8"	2-1/2"	\$69.50
33500	1/2"	1/2"	3"	\$94.50

Save time. Tool combines two operations into one.

60° MINIATURE CARBIDE COUNTERSINKS

COMBINED DRILL & COUNTERSINKS

60 DEGREE INCLUDED ANGLE



Tool Number	Size	Drill Diameter	Shank Diameter	O.A.L.	Price Each
33025CS	00	.025"	1/8"	1-1/2"	\$16.50
33031CS	0	.031"	1/8"	1-1/2"	\$15.90
33047CS	1	.047"	1/8"	1-1/2"	\$13.75
33078CS	2	.078"	3/16"	2"	\$21.25
33109CS	3	.109"	1/4"	2"	\$23.90
33125CS	4	.125"	5/16"	2-1/8"	\$32.90

60°, 82° & 90° SINGLE END COUNTERSINKS

Microcut

60°, 82° & 90° SINGLE END CARBIDE COUNTERSINKS SINGLE FLUTE



TOOL NUMBER			C'Sink Diameter	Shank Diameter	O.A.L	PRICE EACH
60 Degree	82 Degree	90 Degree				
30161	30181	30191	1/8"	1/8"	1-1/2"	\$12.75
30162	30182	30192	1/4"	1/4"	2"	\$15.75
30163	30183	30193	3/8"	1/4"	2-1/2"	\$26.75
30164	30184	30194	1/2"	1/4"	2-1/2"	\$35.75

3 FLUTE - SINGLE END



TOOL NUMBER			C'Sink Diameter	Shank Diameter	O.A.L	PRICE EACH
60 Degree	82 Degree	90 Degree				
30261	30361	30391	1/8"	1/8"	1-1/2"	\$12.75
30262	30362	30392	1/4"	1/4"	2"	\$15.75
30263	30363	30393	3/8"	1/4"	2-1/2"	\$26.75
30264	30364	30394	1/2"	1/4"	2-1/2"	\$35.75

6 FLUTE - SINGLE END



TOOL NUMBER			C'Sink Diameter	Shank Diameter	O.A.L	PRICE EACH
60 Degree	82 Degree	90 Degree				
30461	30661	30991	1/8"	1/8"	1-1/2"	\$12.75
30462	30662	30992	1/4"	1/4"	2"	\$15.75
30463	30663	30993	3/8"	1/4"	2-1/2"	\$26.75
30464	30664	30994	1/2"	1/4"	2-1/2"	\$35.75
30465	30665	30995	1/2"	3/8"	2-1/2"	\$42.75

NOTE:

For use in production machining on cast iron, steel, and alloyed steels.
3/8" & 1/2" diameter have solid carbide heads on hardened steel shanks.

45°, 60° & 66° DOVETAIL CUTTERS

Microcut

45° & 60° DOVETAIL CUTTERS

SOLID CARBIDE - 2 FLUTE - RHC

NOMINAL DIAMETER IS TO SHARP CORNER



Tool Number		Cutter Dia. (Nominal)	Depth of Cut		No. of Flutes	Shank Dia.	O.A.L.	Price Each
45 DEG	60 DEG		45 DEG	60 DEG				
42187	43187	3/16"	.046	.094	2	3/16"	2"	\$79.50
42250	43250	1/4"	.062	.125	3	1/4"	2"	\$84.50
42312	43312	5/16"	.090	.150	3	5/16"	2-1/2"	\$89.50
42375	43375	3/8"	.125	.187	3	3/8"	2-1/2"	\$99.50

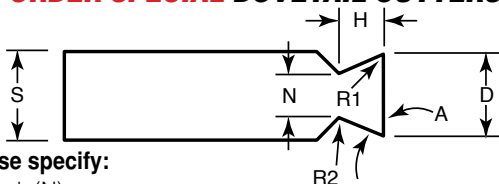
66° DOVETAIL CUTTERS FOR O-RING GROOVES



Tool Number	O-Ring Dia.	Neck Dia.	Slot Depth	Top Radius	Bottom Radius	No. Flutes	Shank O.A.L.	Price Each
41062 41062US	.070"	.057 .052	.051"	.005"	.015"	1	3/16" 2"	\$89.50
41093 41093US	.103"	.085 .077	.082"	.010"	.015"	2	3/16" 2"	\$89.50
41125 41125US	.139"	.115 .105	.112"	.010"	.031"	2	1/4" 2"	\$92.50
41187 41187US	.210"	.173 .161	.172"	.015"	.031"	3	5/16" 2-1/2"	\$99.75
41250 41250US	.275"	.233 .218	.232"	.015"	.062"	3	3/8" 2-1/2"	\$119.00
41375 41375US	.375"	.317 .302	.317"	.020"	.094"	4	1/2" 2-1/2"	\$159.50

Tool numbers with US suffix have reduced neck diameters as shown in table.

ORDER SPECIAL DOVETAIL CUTTERS



Please specify:

1. Neck (N): _____
2. Radius or Sharp Corner (R1): _____
3. Radius or Sharp Corner (R2): _____
4. Height (H): _____
5. Angle Per Side (A): _____
6. Cutter Diameter (D): _____
7. Shank Diameter (S): _____
8. Number of Flutes: _____
9. Quantity (Minimum 6): _____

**Special
Multiple Flute
Dovetail
Cutters**

ENGRAVING CUTTERS

Microcut

CARBIDE ENGRAVING CUTTERS - 60 DEGREE UNCOATED & **AlTiN COATED**



TOOL NUMBER		Cutter Dia.	Shank Dia.	Split Length	O.A.L.	PRICE EACH	
Uncoated	Coated					Uncoated	Coated
36125	36125TL	1/8"	1/8"	1/4"	1-1/2"	\$12.95	\$16.95
36187	36187TL	3/16"	3/16"	5/16"	1-1/2"	\$15.95	\$20.95
36250	36250TL	1/4"	1/4"	3/8"	2-1/2"	\$19.95	\$25.95

CARBIDE ENGRAVING CUTTERS - 90 DEGREE UNCOATED & **AlTiN COATED**



TOOL NUMBER		Cutter Dia.	Shank Dia.	Split Length	O.A.L.	PRICE EACH	
Uncoated	Coated					Uncoated	Coated
39125	39125TL	1/8	1/8	1/4	1-1/2	\$12.95	\$16.95
39187	39187TL	3/16	3/16	5/16	2	\$15.95	\$20.95
39250	39250TL	1/4"	1/4"	3/8"	2-1/2"	\$19.95	\$25.95

TiAlN Coating improves performance in dry engraving of most materials.

FLAT TIP ENGRAVING CUTTERS - 60 DEGREE SINGLE END - .010" TIP DIAMETER - RIGHT HAND CUT

AlTiN COATED



TOOL NUMBER	Cutter Dia.	Shank Dia.	Split Length	O.A.L.	Price Each
34125TL	1/8	1/8	1/4	1-1/2	\$20.95
34187TL	3/16	3/16	5/16	2	\$26.95
34250TL	1/4	1/4	3/8	2	\$34.95

FLAT TIP ENGRAVING CUTTERS - 90 DEGREE SINGLE END - .010" TIP DIAMETER - RIGHT HAND CUT

AlTiN COATED



TOOL NUMBER	Cutter Dia.	Shank Dia.	Split Length	O.A.L.	Price Each
35125TL	1/8	1/8	1/4	1-1/2	\$20.95
35187TL	3/16	3/16	5/16	2	\$26.95
35250TL	1/4	1/4	3/8	2	\$34.95

Tipped off end provides extra strength and improves cutting.

Leaves .010" flat at bottom of groove.

HEAVY DUTY ENGRAVING CUTTERS

Microcut

HEAVY DUTY 2 FLUTE ENGRAVER CUTTER

UNCOATED & 30°

AlTiN COATED



TOOL NUMBER		Cutter Dia.	Flat Dim At Bottom	Shank Dia.	Length Of Cut	O.A.L.	PRICE EACH	
No Coat	Coated						No Coat	Coated
38025	38025TL	1/8"	.005"	1/8"	7/32"	1-1/2"	\$17.50	\$21.50

HEAVY DUTY 2 FLUTE ENGRAVER CUTTER

UNCOATED & 60°

AlTiN COATED



TOOL NUMBER		Cutter Dia.	Flat Dim At Bottom	Shank Dia.	Length Of Cut	O.A.L.	PRICE EACH	
No Coat	Coated						No Coat	Coated
38125	38125TL	1/8"	.005"	1/8"	3/32"	1-1/2"	\$16.95	\$20.95
38187	38187TL	3/16"	.010"	3/16"	5/32"	2"	\$20.95	\$24.95
38250	38250TL	1/4"	.015"	1/4"	3/16"	2-1/2"	\$29.95	\$38.50

HEAVY DUTY 2 FLUTE ENGRAVER CUTTER

UNCOATED & 90°

AlTiN COATED



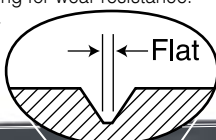
TOOL NUMBER		Cutter Dia.	Flat Dim At Bottom	Shank Dia.	Length Of Cut	O.A.L.	PRICE EACH	
No Coat	Coated						No Coat	Coated
37125	37125TL	1/8"	.010"	1/8"	1/16"	1-1/2"	\$16.95	\$20.95
37187	37187TL	3/16"	.020"	3/16"	3/32"	2"	\$20.95	\$24.95
37250	37250TL	1/4"	.030"	1/4"	1/8"	2-1/2"	\$29.95	\$38.50

DESIGNED FOR ENGRAVING FERROUS AND NON-FERROUS MATERIALS.

30, 60 & 90 degree included point angle with heavy duty tip design.

End cutting - Produces flat in bottom of groove-see chart for width of flat produced. Use AlTiN coating for wear resistance.

Bottom of groove has flat. See chart.



CARBIDE CHAMFER CUTTERS

MicroCUT

CARBIDE SINGLE END CHAMFER CUTTERS



Designed to machine accurate chamfers and countersink angles.

Rigid design insures smooth finishes.

1/8" size will plunge cut to center. – Other sizes are non-end cutting.

Special angles quoted on request.

Tool Number	Shank Dia.	Cutter Dia.	Angle Per Side	Incl'd Angle	Tip Dia.	No. Flutes	O.A.L.	Price Each
62015	1/8"	1/8"	15	30	.010"	2	1-1/2"	\$14.50
62030	1/8"	1/8"	30	60	.010"	2	1-1/2"	\$14.50
62045	1/8"	1/8"	45	90	.010"	2	1-1/2"	\$14.50
62060	1/8"	1/8"	60	120	.010"	2	1-1/2"	\$14.50
63015	1/4"	1/4"	15	30	.045"	3	2"	\$28.50
63030	1/4"	1/4"	30	60	.045"	3	2"	\$28.50
63045	1/4"	1/4"	45	90	.045"	3	2"	\$28.50
63060	1/4"	1/4"	60	120	.045"	3	2"	\$28.50
64015	3/8"	3/8"	15	30	.060"	4	2-1/2"	\$36.95
64030	3/8"	3/8"	30	60	.060"	4	2-1/2"	\$36.95
64045	3/8"	3/8"	45	90	.060"	4	2-1/2"	\$36.95
64060	3/8"	3/8"	60	120	.060"	4	2-1/2"	\$36.95
65015	1/2"	1/2"	15	30	.075"	4	3"	\$50.95
65030	1/2"	1/2"	30	60	.075"	4	3"	\$47.95
65045	1/2"	1/2"	45	90	.075"	4	3"	\$47.95
65060	1/2"	1/2"	60	120	.075"	4	3"	\$47.95

CARBIDE SINGLE END CHAMFER CUTTERS

AITiN COATED



Tool Number	Shank Dia.	Cutter Dia.	Angle Per Side	Incl'd Angle	Tip Dia.	No. Flutes	O.A.L.	Price Each
62015TL	1/8"	1/8"	15	30	.010"	2	1-1/2"	\$18.25
62030TL	1/8"	1/8"	30	60	.010"	2	1-1/2"	\$18.25
62045TL	1/8"	1/8"	45	90	.010"	2	1-1/2"	\$18.25
62060TL	1/8"	1/8"	60	120	.010"	2	1-1/2"	\$18.25
63015TL	1/4"	1/4"	15	30	.045"	3	2"	\$34.75
63030TL	1/4"	1/4"	30	60	.045"	3	2"	\$34.75
63045TL	1/4"	1/4"	45	90	.045"	3	2"	\$34.75
63060TL	1/4"	1/4"	60	120	.045"	3	2"	\$34.75
64015TL	3/8"	3/8"	15	30	.060"	4	2-1/2"	\$44.95
64030TL	3/8"	3/8"	30	60	.060"	4	2-1/2"	\$44.95
64045TL	3/8"	3/8"	45	90	.060"	4	2-1/2"	\$44.95
64060TL	3/8"	3/8"	60	120	.060"	4	2-1/2"	\$44.95
65015TL	1/2"	1/2"	15	30	.075"	4	3"	\$61.95
65030TL	1/2"	1/2"	30	60	.075"	4	3"	\$58.95
65045TL	1/2"	1/2"	45	90	.075"	4	3"	\$58.95
65060TL	1/2"	1/2"	60	120	.075"	4	3"	\$58.95

DOUBLE END CHAMFER CUTTERS

Microcut

CARBIDE DOUBLE END CHAMFER CUTTERS



Tool Number	Shank Dia.	Cutter Dia.	Angle Per Side	Incl'd Angle	Tip Dia.	No. Flutes	O.A.L.	Price Each
66030	1/8"	1/8"	30	60	.010	2	1-1/2"	\$26.50
66045	1/8"	1/8"	45	90	.010	2	1-1/2"	\$26.50
66060	1/8"	1/8"	60	120	.010	2	1-1/2"	\$26.50
67030	1/4"	1/4"	30	60	.045	3	2-1/2"	\$49.95
67045	1/4"	1/4"	45	90	.045	3	2-1/2"	\$49.95
67060	1/4"	1/4"	60	120	.045	3	2-1/2"	\$49.95
68030	3/8"	3/8"	30	60	.060	4	2-1/2"	\$66.50
68045	3/8"	3/8"	45	90	.060	4	2-1/2"	\$66.50
68060	3/8"	3/8"	60	120	.060	4	2-1/2"	\$66.50
69030	1/2"	1/2"	30	60	.075	4	3"	\$77.50
69045	1/2"	1/2"	45	90	.075	4	3"	\$77.50
69060	1/2"	1/2"	60	120	.075	4	3"	\$77.50

Designed to machine accurate chamfers and countersink angles.

Rigid design insures smooth finishes.

1/8" size will plunge cut to center. Other sizes are non-end cutting.

Special angles quoted on request.

CARBIDE DOUBLE END CHAMFER CUTTERS

AITiN COATED



Tool Number	Shank Dia.	Cutter Dia.	Angle Per Side	Incl'd Angle	Tip Dia.	No. Flutes	O.A.L.	Price Each
66030TL	1/8"	1/8"	30	60	.010	2	1-1/2"	\$33.75
66045TL	1/8"	1/8"	45	90	.010	2	1-1/2"	\$33.75
66060TL	1/8"	1/8"	60	120	.010	2	1-1/2"	\$33.75
67030TL	1/4"	1/4"	30	60	.045	3	2-1/2"	\$61.75
67045TL	1/4"	1/4"	45	90	.045	3	2-1/2"	\$61.75
67060TL	1/4"	1/4"	60	120	.045	3	2-1/2"	\$61.75
68030TL	3/8"	3/8"	30	60	.060	4	2-1/2"	\$79.50
68045TL	3/8"	3/8"	45	90	.060	4	2-1/2"	\$79.50
68060TL	3/8"	3/8"	60	120	.060	4	2-1/2"	\$79.50
69030TL	1/2"	1/2"	30	60	.075	4	3"	\$97.50
69045TL	1/2"	1/2"	45	90	.075	4	3"	\$97.50
69060TL	1/2"	1/2"	60	120	.075	4	3"	\$97.50

Designed to machine accurate chamfers and countersink angles.

Rigid design insures smooth finishes.

1/8" size will plunge cut to center. Other sizes are non-end cutting.

Special angles quoted on request.

PLASTIC & ALUMINUM ROUTERS

MicroCUT

PLASTIC CUTTING CARBIDE ROUTERS SINGLE FLUTE - UPCUT STYLE CUTS HARD & SOFT PLASTIC



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
14050	.062"	.250"	1/4"	2"	\$27.50
14055	.125"	.250"	1/4"	2"	\$27.50
14060	.125"	.500"	1/4"	2"	\$27.50
14070	.187"	.375"	1/4"	2"	\$27.50
14075	.187"	.625"	1/4"	2"	\$27.50
14080	.250"	.375"	1/4"	2"	\$26.50
14085	.250"	.750"	1/4"	2-1/2"	\$27.50
14090	.250"	1.250"	1/4"	3"	\$32.50

Use in Acrylics, Polycarbonate, Polystyrene, ABS, Nylon, PVC & similar.

ALUMINUM ROUTERS - SOLID CARBIDE SINGLE FLUTE - UPCUT SPIRAL CUTS ALUMINUM PLATE & SHEET



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	O.A.L.	Price Each
14510	.062"	.250"	1/8"	1-1/2"	\$27.50
14520	.093"	.250"	1/8"	2"	\$28.50
14525	.125"	.250"	1/8"	1-1/2"	\$28.50
14530	.125"	.500"	1/4"	2"	\$35.95
14535	.187"	.625"	1/4"	2"	\$37.95
14540	.250"	.375"	1/4"	2"	\$35.95
14550	.250"	.750"	1/4"	2-1/2"	\$38.95
14560	.250"	1.250"	1/4"	3"	\$55.75

Ultra High Performance Design. Used for high speed machining of aluminum plate and single or multi-sheet aluminum. Designed for CNC mills, machining centers and CNC routers.

Microcut

SHEAR HOG® FOR ALUMINUM THRU SPINDLE COOLANT HOLE. INCLUDES INSERTS AND WRENCH.

Tool Number	Cutter Dia.	No. Of Flutes	Ramp Angle	Shank Dia.	O.A.L.	Price Each
MCH-0750	.750"	1	CTR CUT	3/4"	4.0"	\$259.00
MCH-1000	1.0"	1	CTR CUT	3/4"	3.5"	\$259.00
MCH-1250	1.25"	2	8 DEG	3/4"	3.5"	\$289.00
MCH-1500	1.50"	2	8 DEG	3/4"	4.0"	\$319.00
MCH-2000	2.00"	3	4 DEG	3/4"	4.5"	\$359.00
MCH-2100	2.00"	3	4 DEG	1"	5.0"	\$369.00

HI-SHEAR POLISHED CARBIDE INSERTS FOR ALUMINUM

Insert Number	Corner Radius	Price Each
MCH-431	.010"	\$25.95
MCH-432	.030"	\$25.95
MCH-434	.060"	\$25.95



ABRASION RESISTANT TOOL COATINGS



TiCN

Cutting carbon steel, alloy steel and cast iron; cold forming & stamping tools.



ZrN

Hard coating for machining a variety of non-ferrous materials.



AlTiN

High performance coating for dry and semi-dry machining of all aerospace materials at high speeds.



Diamond

(Amorphous) Thin film coating for graphite, nonferrous materials and epoxy.



DIAMOND COATED MILLS

DIAMOND COATED DECIMAL MINIATURE END MILLS

HIGH PERFORMANCE DESIGN - 2 FLUTE - CENTER CUTTING
STANDARD DIAMOND SERIES - 1/8" SHANK - 1-1/2" O.A.L.

AMORPHOUS DIAMOND COATED



TOOL NUMBER		Cutter Diameter	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
GRX1010	GRX2010	.010"	.030"	\$37.50	\$43.50
GRX1015	GRX2015	.015"	.045"	\$34.50	\$39.50
GRX1020	GRX2020	.020"	.060"	\$28.50	\$32.50
GRX1025	GRX2025	.025"	.075"	\$27.50	\$31.50
GRX1030	GRX2030	.030"	.090"	\$27.50	\$31.50
GRX1031	GRX2031	.031"	.125"	\$27.50	\$31.50
GRX1035	GRX2035	.035"	.105"	\$27.50	\$31.50
GRX1040	GRX2040	.040"	.120"	\$27.50	\$31.50
GRX1045	GRX2045	.045"	.135"	\$27.50	\$31.50
GRX1047	GRX2047	.047"	.141"	\$27.50	\$31.50
GRX1050	GRX2050	.050"	.150"	\$27.50	\$31.50
GRX1055	GRX2055	.055"	.165"	\$27.50	\$31.50
GRX1060	GRX2060	.060"	.180"	\$27.50	\$31.50
GRX1062	GRX2062	.062"	.250"	\$27.50	\$31.50
GRX1065	GRX2065	.065"	.195"	\$27.50	\$31.50
GRX1070	GRX2070	.070"	.210"	\$27.50	\$31.50
GRX1075	GRX2075	.075"	.225"	\$27.50	\$31.50
GRX1078	GRX2078	.078"	.234"	\$27.50	\$31.50
GRX1090	GRX2090	.090"	.270"	\$27.50	\$31.50
GRX1093	GRX2093	.093"	.279"	\$27.50	\$31.50
GRX1100	GRX2100	.100"	.300"	\$27.50	\$31.50
GRX1125	GRX2125	.125"	.500"	\$27.50	\$31.50

Amorphous diamond coated end mills are engineered for machining graphite, aluminum, nonferrous metals, plastics and composite materials.



DIAMOND COATED MILLS

DIAMOND COATED LONG REACH DECIMAL MINIATURE END MILLS

MINIMUM ORDER 3 PIECES PER SIZE

HIGH PERFORMANCE DESIGN - **2 FLUTE** - CENTER CUTTING

1/8" SHANK - 1-1/2" O.A.L.

AMORPHOUS DIAMOND COATED

**SHIPPED
WITHIN
24 - 48
HOURS**



TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
GRX8015	GRX9015	.015"	.045"	.125"	\$44.50	\$49.50
GRX8020	GRX9020	.020"	.060"	.165"	\$38.50	\$42.50
GRX8025	GRX9025	.025"	.075"	.205"	\$37.50	\$41.50
GRX8030	GRX9030	.030"	.090"	.250"	\$37.50	\$41.50
GRX8031	GRX9031	.031"	.125"	.250"	\$37.50	\$41.50
GRX8035	GRX9035	.035"	.105"	.285"	\$37.50	\$41.50
GRX8040	GRX9040	.040"	.120"	.350"	\$36.75	\$40.75
GRX8045	GRX9045	.045"	.135"	.400"	\$36.75	\$40.75
GRX8047	GRX9047	.047"	.125"	.400"	\$36.75	\$40.75
GRX8050	GRX9050	.050"	.150"	.450"	\$36.75	\$40.75
GRX8055	GRX9055	.055"	.165"	.450"	\$36.75	\$40.75
GRX8060	GRX9060	.060"	.180"	.500"	\$35.90	\$39.90
GRX8062	GRX9062	.062"	.186"	.500"	\$35.90	\$39.90
GRX8065	GRX9065	.065"	.195"	.500"	\$35.90	\$39.90
GRX8070	GRX9070	.070"	.210"	.500"	\$35.90	\$39.90
GRX8075	GRX9075	.075"	.225"	.500"	\$35.90	\$39.90
GRX8078	GRX9078	.078"	.234"	.500"	\$35.90	\$39.90
GRX8090	GRX9090	.090"	.270"	.600"	\$35.90	\$39.90
GRX8093	GRX9093	.093"	.375"	.600"	\$35.90	\$39.90
GRX8100	GRX9100	.100"	.300"	.600"	\$35.90	\$39.90
GRX8125	GRX9125	.125"	.500"	.650"	\$35.90	\$39.90

Tools are custom manufactured to order and are nonreturnable.

Amorphous diamond coated end mills are engineered for machining graphite, aluminum, nonferrous metals, reinforced plastics and composite materials.



DIAMOND COATED MILLS

DECIMAL & FRACTIONAL SIZES

4 FLUTE MINIATURE END MILLS

CENTER CUTTING

AMORPHOUS DIAMOND COATED



TOOL NUMBER		Cutter Diameter	Length of Cut	O.A.L.	PRICE EACH	
Square End	Ball End				Square End	Ball End
GRX015	GRX015B	.015"	.045"	1-1/2"	\$34.50	\$39.50
GRX020	GRX020B	.020"	.060"	1-1/2"	\$28.50	\$32.50
GRX025	GRX025B	.025"	.075"	1-1/2"	\$27.50	\$31.50
GRX030	GRX030B	.030"	.090"	1-1/2"	\$27.50	\$31.50
GRX031	GRX031B	.031"	.125"	1-1/2"	\$27.50	\$31.50
GRX035	GRX035B	.035"	.105"	1-1/2"	\$27.50	\$31.50
GRX040	GRX040B	.040"	.120"	1-1/2"	\$27.50	\$31.50
GRX045	GRX045B	.045"	.135"	1-1/2"	\$27.50	\$31.50
GRX047	GRX047B	.047"	.125"	1-1/2"	\$27.50	\$31.50
GRX050	GRX050B	.050"	.150"	1-1/2"	\$27.50	\$31.50
GRX055	GRX055B	.055"	.165"	1-1/2"	\$27.50	\$31.50
GRX060	GRX060B	.060"	.180"	1-1/2"	\$27.50	\$31.50
GRX062	GRX062B	.062"	.250"	1-1/2"	\$27.50	\$31.50
GRX065	GRX065B	.065"	.195"	1-1/2"	\$27.50	\$31.50
GRX070	GRX070B	.070"	.210"	1-1/2"	\$27.50	\$31.50
GRX075	GRX075B	.075"	.225"	1-1/2"	\$27.50	\$31.50
GRX078	GRX078B	.078"	.250"	1-1/2"	\$27.50	\$31.50
GRX090	GRX090B	.090"	.270"	1-1/2"	\$27.50	\$31.50
GRX093	GRX093B	.093"	.375"	1-1/2"	\$27.50	\$31.50
GRX100	GRX100B	.100"	.300"	1-1/2"	\$27.50	\$31.50
GRX109	GRX109B	.109"	.375"	1-1/2"	\$27.50	\$31.50
GRX125	GRX125B	.125"	.500"	1-1/2"	\$27.50	\$31.50
GRX187	GRX187B	.187"	.625"	2"	\$32.50	\$35.50
GRX250	GRX250B	.250"	.750"	2-1/2"	\$38.50	\$41.50
GRX312	GRX312B	.312"	.812"	2-1/2"	\$49.50	\$53.50
GRX375	GRX375B	.375"	1.00"	2-1/2"	\$59.50	\$64.50
GRX500	GRX500B	.500"	1.00"	3"	\$89.50	\$96.50



DIAMOND COATED MILLS

DIAMOND MINIATURE LONG REACH FRACTIONAL MINIATURE END MILLS

MINIMUM ORDER 3 PIECES PER SIZE

4 FLUTE - CENTER CUTTING

1/8" SHANK - 1-1/2" O.A.L.

AMORPHOUS DIAMOND COATED

**SHIPPED
WITHIN
24 - 48
HOURS**



TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
GRX3015	GRX3015B	.015"	.045"	.125"	\$44.50	\$49.50
GRX3020	GRX3020B	.020"	.060"	.165"	\$38.50	\$42.50
GRX3025	GRX3025B	.025"	.075"	.205"	\$37.50	\$42.50
GRX3030	GRX3030B	.030"	.090"	.250"	\$37.50	\$42.50
GRX3031	GRX3031B	.031"	.125"	.250"	\$37.50	\$41.50
GRX3035	GRX3035B	.035"	.105"	.285"	\$36.75	\$40.75
GRX3040	GRX3040B	.040"	.120"	.350"	\$36.75	\$40.75
GRX3045	GRX3045B	.045"	.135"	.400"	\$36.75	\$40.75
GRX3047	GRX3047B	.047"	.125"	.400"	\$36.75	\$40.75
GRX3050	GRX3050B	.050"	.150"	.450"	\$36.75	\$40.75
GRX3055	GRX3055B	.055"	.165"	.450"	\$36.75	\$40.75
GRX3060	GRX3060B	.060"	.180"	.500"	\$35.90	\$39.90
GRX3062	GRX3062B	.062"	.250"	.500"	\$35.90	\$39.90
GRX3065	GRX3065B	.065"	.195"	.500"	\$35.90	\$39.90
GRX3070	GRX3070B	.070"	.210"	.500"	\$35.90	\$39.90
GRX3075	GRX3075B	.075"	.225"	.500"	\$35.90	\$39.90
GRX3078	GRX3078B	.078"	.250"	.500"	\$35.90	\$39.90
GRX3090	GRX3090B	.090"	.270"	.600"	\$35.90	\$39.90
GRX3093	GRX3093B	.093"	.375"	.600"	\$35.90	\$39.90
GRX3100	GRX3100B	.100"	.300"	.600"	\$35.90	\$39.90
GRX3109	GRX3109B	.109"	.375"	.650"	\$35.90	\$39.90
GRX3125	GRX3125B	.125"	.500"	.650"	\$35.90	\$39.90

Tools are custom manufactured to order and are nonreturnable.

Amorphous diamond coated end mills are designed for machining graphite, aluminum, nonferrous metals, reinforced plastics and composite materials.



DIAMOND COATED MILLS

CORNER RADIUS END MILLS

DECIMAL & FRACTIONAL SIZES .015" - .125"

2 FLUTE - CENTER CUTTING - MICROGRAIN CARBIDE

AMORPHOUS DIAMOND COATED



Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Overall Length	Price Each
GX215-003	.015"	.003"	.045"	1/8"	1-1/2"	\$48.50
GX220-005	.020"	.005"	.060"	1/8"	1-1/2"	\$44.50
GX225-005	.025"	.005"	.075"	1/8"	1-1/2"	\$44.50
GX230-005	.030"	.005"	.090"	1/8"	1-1/2"	\$38.75
GX231-005	.031" (1/32)	.005"	.093"	1/8"	1-1/2"	\$38.75
GX235-005	.035"	.005"	.105"	1/8"	1-1/2"	\$38.75
GX240-005	.040"	.005"	.120"	1/8"	1-1/2"	\$36.50
GX245-005	.045"	.005"	.135"	1/8"	1-1/2"	\$36.50
GX247-005	.047" (3/64)	.005"	.141"	1/8"	1-1/2"	\$36.50
GX250-005	.050"	.005"	.150"	1/8"	1-1/2"	\$36.50
GX260-005	.060"	.005"	.180"	1/8"	1-1/2"	\$36.50
GX260-010	.060"	.010"	.180"	1/8"	1-1/2"	\$36.50
GX262-005	.062" (1/16)	.005"	.186"	1/8"	1-1/2"	\$36.50
GX262-010	.062" (1/16)	.010"	.186"	1/8"	1-1/2"	\$36.50
GX275-005	.075"	.005"	.225"	1/8"	1-1/2"	\$36.50
GX275-010	.075"	.010"	.225"	1/8"	1-1/2"	\$36.50
GX278-005	.078" (5/64)	.005"	.234"	1/8"	1-1/2"	\$36.50
GX278-010	.078" (5/64)	.010"	.234"	1/8"	1-1/2"	\$36.50
GX293-005	.093" (3/32)	.005"	.279"	1/8"	1-1/2"	\$36.50
GX293-010	.093" (3/32)	.010"	.279"	1/8"	1-1/2"	\$36.50
GX225-010	.125" (1/8)	.010"	1/2"	1/8"	1-1/2"	\$32.50
GX225-015	.125" (1/8)	.015"	1/2"	1/8"	1-1/2"	\$32.50
GX225-020	.125" (1/8)	.020"	1/2"	1/8"	1-1/2"	\$32.50

Corner radius helps prevent chipping at corners at high feeds and speeds.



DIAMOND COATED MILLS

CORNER RADIUS END MILLS

DECIMAL & FRACTIONAL SIZES .015" - .125"

4 FLUTE - CENTER CUTTING - MICROGRAIN CARBIDE

AMORPHOUS DIAMOND COATED



Tool Number	Cutter Diameter	Corner Radius	Length of Cut	Shank Dia.	Overall Length	Price Each
GX415-003	.015"	.003"	.045"	1/8"	1-1/2"	\$48.50
GX420-005	.020"	.005"	.060"	1/8"	1-1/2"	\$44.50
GX425-005	.025"	.005"	.075"	1/8"	1-1/2"	\$44.50
GX430-005	.030"	.005"	.090"	1/8"	1-1/2"	\$38.75
GX431-005	.031" (1/32)	.005"	.093"	1/8"	1-1/2"	\$38.75
GX435-005	.035"	.005"	.105"	1/8"	1-1/2"	\$38.75
GX440-005	.040"	.005"	.120"	1/8"	1-1/2"	\$36.50
GX445-005	.045"	.005"	.135"	1/8"	1-1/2"	\$36.50
GX447-005	.047" (3/64)	.005"	.141"	1/8"	1-1/2"	\$36.50
GX450-005	.050"	.005"	.150"	1/8"	1-1/2"	\$36.50
GX460-005	.060"	.005"	.180"	1/8"	1-1/2"	\$36.50
GX460-010	.060"	.010"	.180"	1/8"	1-1/2"	\$36.50
GX462-005	.062" (1/16)	.005"	.186"	1/8"	1-1/2"	\$36.50
GX462-010	.062" (1/16)	.010"	.186"	1/8"	1-1/2"	\$36.50
GX475-005	.075"	.005"	.225"	1/8"	1-1/2"	\$36.50
GX475-010	.075"	.010"	.225"	1/8"	1-1/2"	\$36.50
GX478-005	.078" (5/64)	.005"	.234"	1/8"	1-1/2"	\$36.50
GX478-010	.078" (5/64)	.010"	.234"	1/8"	1-1/2"	\$36.50
GX493-005	.093" (3/32)	.005"	.279"	1/8"	1-1/2"	\$36.50
GX493-010	.093" (3/32)	.010"	.279"	1/8"	1-1/2"	\$36.50
GX425-010	.125" (1/8)	.010"	1/2"	1/8"	1-1/2"	\$32.50
GX425-015	.125" (1/8)	.015"	1/2"	1/8"	1-1/2"	\$32.50
GX425-020	.125" (1/8)	.020"	1/2"	1/8"	1-1/2"	\$32.50

Corner radius helps prevent chipping at corners at high feeds and speeds.



DIAMOND COATED MILLS

LONG FLUTE - SQUARE END BALL END - 4 FLUTE

.015" to .500" Diameters

AMORPHOUS DIAMOND COATED



TOOL NUMBER		Cutter Dia.	Length of Cut	Shank Dia.	O.A.L.	PRICE EACH	
Square End	Ball End					Square End	Ball End
GRX4015	GRX5015	.015"	.075"	1/8"	2-1/2"	\$39.75	\$44.75
GRX4020	GRX5020	.020"	.100"	1/8"	2-1/2"	\$36.50	\$39.50
GRX4025	GRX5025	.025"	.125"	1/8"	2-1/2"	\$34.50	\$37.50
GRX4030	GRX5030	.030"	.150"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4031	GRX5031	.031"	.150"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4031L	GRX5031L	.031"	.250"	1/8"	2-1/2"	\$49.95	\$57.95
GRX4035	GRX5035	.035"	.175"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4040	GRX5040	.040"	.200"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4045	GRX5045	.045"	.250"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4047	GRX5047	.047"	.250"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4047L	GRX5047L	.047"	.375"	1/8"	2-1/2"	\$43.95	\$48.95
GRX4050	GRX5050	.050"	.300"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4055	GRX5055	.055"	.375"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4060	GRX5060	.060"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4062S	GRX5062S	.062"	.312"	1/8"	2-1/2"	\$30.95	\$32.50
GRX4062	GRX5062	.062"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4062L	GRX5062L	.062"	.750"	1/8"	2-1/2"	\$45.95	\$49.95
GRX4065	GRX5065	.065"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4070	GRX5070	.070"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4075	GRX5075	.075"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4078	GRX5078	.078"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4078L	GRX5078L	.078"	.750"	1/8"	2-1/2"	\$45.95	\$49.95
GRX4090	GRX5090	.090"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4093	GRX5093	.093"	.500"	1/8"	2-1/2"	\$33.95	\$36.95
GRX4093L	GRX5093L	.093"	.750"	1/8"	2-1/2"	\$35.95	\$39.95
GRX4125	GRX5125	.125"	.750"	1/8"	3"	\$33.95	\$36.95
GRX4125L	GRX5125L	.125"	1.00"	1/8"	3"	\$35.50	\$39.95
GRX4187	GRX5187	.187"	1.125"	3/16"	3"	\$39.50	\$42.50
GRX4250	GRX5250	.250"	1.500"	1/4"	4"	\$45.50	\$49.50
GRX4375	GRX5375	.375"	1.750"	3/8"	4"	\$66.50	\$71.50
GRX4500	GRX5500	.500"	2.000"	1/2"	4"	\$109.50	\$119.50

Special reaches for deep pocket milling quoted on request.

GRX Mills for Machining Graphite Electrodes

"GRX" series of amorphous diamond coated mills lower tooling costs and improve productivity over uncoated carbide.





DIAMOND COATED MILLS

**LONG REACH, LONG FLUTE, LONG SHANK - SQUARE & BALL
4 FLUTE - CENTER CUTTING - 1/8" SHANK - 2-1/2" O.A.L.**

AMORPHOUS DIAMOND COATED



**SHIPPED
WITHIN
24 - 48
HOURS**

Tools are custom manufactured to order and are nonreturnable.

TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
GRX4515	GRX5515	1/64" (.0156)	.075	.150	\$44.75	\$49.75
GRX4520	GRX5520	.020	.100	.200	\$41.50	\$44.50
GRX4525	GRX5525	.025	.125	.250	\$38.50	\$41.95
GRX4530	GRX5530	.030	.150	.300	\$38.50	\$41.95
GRX4531	GRX5531	1/32" (.0312)	.150	.300	\$38.50	\$41.95
GRX4535	GRX5535	.035	.175	.350	\$38.50	\$41.95
GRX4540	GRX5540	.040	.200	.400	\$38.50	\$41.95
GRX4545	GRX5545	.045	.250	.450	\$38.25	\$41.50
GRX4547	GRX5547	3/64" (.0469)	.250	.500	\$38.25	\$41.50
GRX4550	GRX5550	.050	.300	.500	\$38.25	\$41.50
GRX4555	GRX5555	.055	.375	.500	\$38.25	\$41.50
GRX4560S	GRX5560S	.060	.500	.750	\$38.25	\$41.50
GRX4560	GRX5560	.060	.500	1.00	\$42.25	\$45.50
GRX4562S	GRX5562S	1/16" (.0625)	.500	.750	\$38.25	\$41.50
GRX4562	GRX5562	1/16" (.0625)	.500	1.00	\$42.25	\$45.50
GRX4565	GRX5565	.065	.500	.750	\$38.25	\$41.50
GRX4570	GRX5570	.070	.500	.750	\$38.25	\$41.50
GRX4575S	GRX5575S	.075	.500	.750	\$38.25	\$41.50
GRX4575	GRX5575	.075	.500	1.00	\$42.25	\$45.50
GRX4578S	GRX5578S	5/64" (.0781)	.500	.750	\$38.25	\$41.50
GRX4578	GRX5578	5/64" (.0781)	.500	1.00	\$42.25	\$45.50
GRX4590S	GRX5590S	.090	.500	.750	\$38.25	\$41.50
GRX4590	GRX5590	.090	.500	1.00	\$42.25	\$45.50
GRX4593S	GRX5593S	3/32" (.0937)	.500	.750	\$38.25	\$41.50
GRX4593L	GRX5593L	3/32" (.0937)	.500	1.00	\$42.25	\$45.50
GRX4593	GRX5593	3/32" (.0937)	.500	1.25	\$42.25	\$45.50
GRX45125*	GRX55125*	1/8" (.1250)	.750	1.50	\$38.25	\$41.50
GRX45187*	GRX55187*	3/16" (.1875)	1.125	1.625	\$45.50	\$48.95
GRX45250**	GRX55250**	1/4" (.2500)	1.500	2.00	\$51.95	\$53.95

* GRX45125, GRX45187, GRX55125 and GRX55187 are 3" OAL.

* *GRX45250 and GRX55250 are 4" OAL.

High Performance thin film Diamond coated carbide end mills for Extra Deep Machining of graphite, aluminum, and composite materials.

All end mills have reduced neck diameters to prevent work piece contact.

Special reaches for deep pocket milling quoted on request.

Minimum order 3 pieces per size.

Tools ground to order and shipped within 48 hours or less.



DIAMOND COATED MILLS

STUB END MILLS - LONG SHANK - SQUARE & BALL
4 FLUTE - CENTER CUTTING - 1/8" SHANK - 2-1/2" O.A.L.

AMORPHOUS DIAMOND COATED



TOOL NUMBER		Cutter Dia.	Length of Cut	PRICE EACH	
Square End	Ball End			Square End	Ball End
GRX6515	GRX7515	.015"	.030"	\$38.75	\$43.75
GRX6520	GRX7520	.020"	.040"	\$35.50	\$38.50
GRX6525	GRX7525	.025"	.050"	\$33.50	\$36.50
GRX6530	GRX7530	.030"	.060"	\$32.95	\$35.95
GRX6531	GRX7531	.031"	.062"	\$32.95	\$35.95
GRX6535	GRX7535	.035"	.070"	\$32.95	\$35.95
GRX6540	GRX7540	.040"	.080"	\$32.95	\$35.95
GRX6545	GRX7545	.045"	.090"	\$32.95	\$35.95
GRX6547	GRX7547	.047"	.094"	\$32.95	\$35.95
GRX6550	GRX7550	.050"	.100"	\$32.95	\$35.95
GRX6560	GRX7560	.060"	.120"	\$32.95	\$35.95
GRX6562	GRX7562	.062"	.125"	\$32.95	\$35.95
GRX6565	GRX7565	.065"	.130"	\$32.95	\$35.95
GRX6570	GRX7570	.070"	.140"	\$32.95	\$35.95
GRX6575	GRX7575	.075"	.150"	\$32.95	\$35.95
GRX6578	GRX7578	.078"	.156"	\$32.95	\$35.95
GRX6590	GRX7590	.090"	.180"	\$32.95	\$35.95
GRX6593	GRX7593	.093"	.186"	\$32.95	\$35.95
GRX65125	GRX75125	.125"	.250"	\$32.95	\$35.95

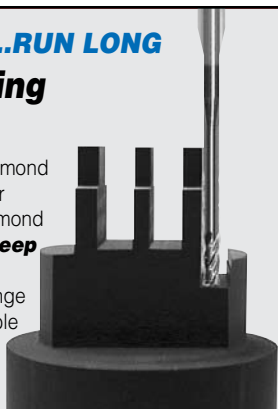
Long Reach - Stub Length end mills are available on the next page.
 Special reaches quoted on request and ship within 48 hours.

Minimum order 3 pieces per size.

RUN FAST.....RUN DEEP.....RUN LONG

GRX Mills for Machining Graphite Electrodes

Microcut's "GRX" series of amorphous diamond coated end mills improve productivity over uncoated carbide. High performance Diamond Coated carbide end mills are for **extra deep machining** of graphite, aluminum, and composite materials. Stocked in a size range of .015" to .125" diameter and also available with extended reach capabilities.





DIAMOND COATED MILLS

**LONG REACH, STUB FLUTE, LONG SHANK - SQUARE & BALL
4 FLUTE - CENTER CUTTING - 1/8" SHANK - 2-1/2" O.A.L.**

AMORPHOUS DIAMOND COATED

Minimum order 3 pieces per size.

Shipped within 48 hours.



TOOL NUMBER		Cutter Dia.	Length of Cut	Reach From Tip	PRICE EACH	
Square End	Ball End				Square End	Ball End
GRX6015S	GRX7015S	.015"	.030"	.100"	\$40.25	\$48.25
GRX6015	GRX7015	.015"	.030"	.150"	\$40.25	\$48.25
GRX6020	GRX7020	.020"	.040"	.175"	\$38.95	\$46.95
GRX6025	GRX7025	.025"	.050"	.200"	\$38.95	\$46.95
GRX6030	GRX7030	.030"	.060"	.250"	\$37.50	\$42.50
GRX6031S	GRX7031S	.031"	.062"	.150"	\$37.50	\$42.50
GRX6031	GRX7031	.031"	.062"	.250"	\$37.50	\$42.50
GRX6035	GRX7035	.035"	.070"	.280"	\$37.50	\$40.95
GRX6040	GRX7040	.040"	.080"	.325"	\$37.50	\$40.95
GRX6045	GRX7045	.045"	.090"	.360"	\$37.50	\$40.95
GRX6047	GRX7047	.047"	.094"	.250"	\$36.95	\$40.95
GRX6047L	GRX7047L	.047"	.094"	.375"	\$36.95	\$40.95
GRX6050	GRX7050	.050"	.100"	.400"	\$36.95	\$40.95
GRX6060	GRX7060	.060"	.120"	.500"	\$36.95	\$40.95
GRX6062	GRX7062	.062"	.125"	.500"	\$36.95	\$40.95
GRX6062L	GRX7062L	.062"	.125"	.750"	\$40.95	\$44.95
GRX6062XL	GRX7062XL	.062"	.125"	1.00"	\$44.95	\$48.95
GRX6065	GRX7065	.065"	.130"	.500"	\$36.95	\$40.95
GRX6070	GRX7070	.070"	.140"	.500"	\$36.95	\$40.95
GRX6075	GRX7075	.075"	.150"	.500"	\$36.95	\$40.95
GRX6078	GRX7078	.078"	.156"	.500"	\$36.95	\$40.95
GRX6078L	GRX7078L	.078"	.156"	.750"	\$40.95	\$44.95
GRX6078XL	GRX7078XL	.078"	.156"	1.00"	\$44.95	\$48.95
GRX6090	GRX7090	.090"	.180"	.500"	\$36.95	\$40.95
GRX6093	GRX7093	.093"	.186"	.500"	\$36.95	\$40.95
GRX6093L	GRX7093L	.093"	.186"	.750"	\$40.95	\$44.95
GRX6093XL	GRX7093XL	.093"	.186"	1.00"	\$44.95	\$48.95
GRX6125	GRX7125	.125"	.250"	1.25"	\$40.95	\$44.95

Tools are custom manufactured to order and are nonreturnable.



DIAMOND COATED MILLS

POLYCRYSTALLINE CVD DIAMOND END MILL

SQUARE END - 4 FLUTE

STANDARD SERIES - 30 DEGREE HELIX



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	Overall Length	Price Each
77793	1/32"	3/32"	1/8"	1-1/2"	\$89.50
77796	1/16"	3/16"	1/8"	1-1/2"	\$89.50
77799	3/32"	3/8"	1/8"	1-1/2"	\$89.50
77802	1/8"	1/2"	1/8"	1-1/2"	\$89.50
77805	3/16"	5/8"	3/16"	2"	\$98.50
77808	1/4"	3/4"	1/4"	2-1/2"	\$119.50

POLYCRYSTALLINE CVD DIAMOND END MILL

BALL END - 4 FLUTE

STANDARD SERIES - 30 DEGREE HELIX



Tool Number	Cutter Diameter	Length of Cut	Shank Dia.	Overall Length	Price Each
77826	1/32"	3/32"	1/8"	1-1/2"	\$99.50
77829	1/16"	3/16"	1/8"	1-1/2"	\$99.50
77832	3/32"	3/8"	1/8"	1-1/2"	\$99.50
77835	1/8"	1/2"	1/8"	1-1/2"	\$99.50
77838	3/16"	5/8"	3/16"	2"	\$119.50
77841	1/4"	3/4"	1/4"	2-1/2"	\$145.75

POLYCRYSTALLINE CVD DIAMOND END MILL

4 FLUTE - SQUARE END WITH CORNER RADIUS

EXTENDED REACH SERIES - 30 DEGREE HELIX

1/8" SHANK - 3" O.A.L.



Tool Number	Cutter Diameter	Length of Cut	Reach From Tip	Corner Radius	Price Each
18671	1/32"	3/32"	3/8"	.005"	\$149.50
18672	3/64"	9/64"	9/16"	.010"	\$149.50
18673	1/16"	3/16"	3/4"	.010"	\$149.50
18674	3/32"	9/32"	1"	.010"	\$149.50
18675	1/8"	3/8"	1-1/2"	.010"	\$149.50

❖ CVD Diamond provides maximum abrasion resistance for machining graphite, glass fiber composites and green ceramics.



DIAMOND COATED MILLS

PCD DIAMOND END MILLS

PCD BRAZED ON CARBIDE SHANK

2 STRAGHT FLUTES - CENTER CUTTING

SQUARE END



Tool Number	Cutter Dia.	Length of Cut	Number Flutes	Shank Dia.	O.A.L.	Price Each
PC1093	3/32"	3/16"	1	1/8"	1-1/2"	\$135.50
PC2125	1/8"	1/4"	1	1/8"	1-1/2"	\$135.50
PC2187	3/16"	1/4"	2	3/16"	2"	\$149.50
PC2250	1/4"	1/4"	2	1/4"	2-1/2"	\$165.50
PC2375	3/8"	1/4"	2	3/8"	2-1/2"	\$199.50
PC2500	1/2"	1/4"	2	1/2"	3"	\$254.50

BALL END



Tool Number	Cutter Dia.	Length of Cut	Number Flutes	Shank Dia.	O.A.L.	Price Each
PC1093B	3/32"	3/16"	1	1/8"	1-1/2"	\$164.50
PC2125B	1/8"	1/4"	1	1/8"	1-1/2"	\$164.50
PC2187B	3/16"	1/4"	2	3/16"	2"	\$177.50
PC2250B	1/4"	5/16"	2	1/4"	2-1/2"	\$185.50

CORNER RADIUS



Tool Number	Cutter Dia.	Length of Cut	Corner Radius	Number Flutes	Shank Dia.	O.A.L.	Price Each
PC1093R	3/32"	3/16"	.010"	1	1/8"	1-1/2"	\$164.50
PC2125R	1/8"	1/4"	.015"	1	1/8"	1-1/2"	\$164.50
PC2187R	3/16"	1/4"	.015"	2	3/16"	2"	\$177.50
PC2250R	1/4"	1/4"	.030"	2	1/4"	2-1/2"	\$185.50

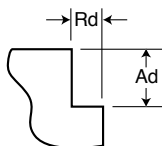
Recommended for use on aluminum, copper, graphite, green carbide and ceramics, glass fiber filled epoxy and plastics.

PCD diamond (Polycrystalline) is manufactured as a carbide backed flat wafer. The wafer is brazed to a carbide body to form an end mill. PCD has excellent hardness and abrasion resistance. Sharply ground cutting edges and thick diamond layer combine the sharp edge benefits of Amorphous Diamond with the abrasion resistance of CVD Diamond. Low temperature threshold makes diamond unsuitable for ferrous applications.

SPEEDS & FEEDS 2 & 3 FLUTE CARBIDE

MicroCUT

SUGGESTED SPEEDS & FEEDS 2 & 3 FLUTE CARBIDE END MILLS SIDE MILLING



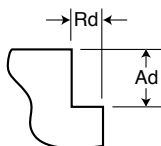
Work Material	Aluminum	Cast Iron	Medium Carbon Steels Mild Steel	"Pre-hardened, Stainless Die, & Alloy Steels"	"Pre-hardened, Stainless Die, & Alloy Steels"
Hardness				<HRC30	HRC30-40
Depth of Cut: Ad= 1.50 Rd=0.1D					
Mill Dia. (inch)	V=330-400 SFM Speed RPM Feed IPM	V=100-150 SFM Speed RPM Feed IPM	V=100-150 SFM Speed RPM Feed IPM	V=80-115 SFM Speed RPM Feed IPM	V=80-100 SFM Speed RPM Feed IPM
.015	100000 15.7	31500 3.9	30000 2.0	25000 1.2	25000 0.6
.020	62000 17.7	22400 4.9	22000 2.4	16000 1.4	16000 0.7
.030	40000 17.7	16000 4.9	14000 2.4	10000 1.4	10000 0.7
3/64	31500 17.7	14000 6.9	11000 3.3	8000 2.4	8000 1.4
1/16	21200 17.7	9500 6.9	7500 3.3	5300 2.4	5400 1.4
5/64	16000 17.7	7100 9.8	5500 3.3	4000 2.4	4000 1.4
1/8	12500 17.7	4750 11.8	4500 5.9	3550 4.7	3150 1.8
5/32	9500 18.7	3550 11.8	3550 6.9	2650 4.7	2360 1.8
3/16	7500 18.7	2800 11.8	2800 7.9	2120 4.9	1900 1.8
1/4	6300 18.7	2360 11.8	2360 7.9	1700 4.9	1600 1.8
5/16	4750 19.7	1800 11.8	1800 7.9	1320 4.9	1180 1.8
3/8	3750 19.7	1400 12.4	1400 8.9	1060 4.9	950 1.8
1/2	3150 22.0	1180 12.4	1180 8.9	850 4.9	800 1.8

SUGGESTED SPEEDS & FEEDS 2 & 3 FLUTE CARBIDE END MILLS SLOTting



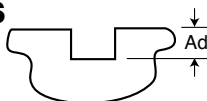
Work Material	Aluminum	Cast Iron	Medium Carbon Steels Mild Steel	"Pre-hardened, Stainless Die, & Alloy Steels"	"Pre-hardened, Stainless Die, & Alloy Steels"
Hardness				<HRC30	HRC30-40
Depth of Cut: Up to 1/32 AD=0.2D. From 1/32 to 5/64 Ad=0.3D. Over 5/64 Ad=0.5D.					
Mill Dia. (inch)	V=330 SFM Speed RPM Feed IPM	V=100-150 SFM Speed RPM Feed IPM	V=100-130 SFM Speed RPM Feed IPM	V=65-100 SFM Speed RPM Feed IPM	V=65-82 SFM Speed RPM Feed IPM
.015	100000 7.1	31500 3.9	30000 1.4	22400 0.7	21200 0.5
.020	62000 7.9	22400 4.9	19000 1.6	13000 0.8	12000 0.6
.030	40000 7.9	16000 4.9	14000 2.5	8000 1.0	8000 0.6
3/64	31500 7.9	14000 5.5	12500 3.0	7500 1.2	7000 0.6
1/16	21200 7.9	9500 5.5	8500 3.5	6500 1.4	5000 0.8
5/64	16000 11.8	7100 5.9	6300 3.9	5000 2.4	4000 1.2
1/8	11200 11.8	4750 6.3	4250 3.9	3200 3.1	2600 1.2
5/32	8000 11.8	3550 6.3	3150 3.9	2400 3.1	2000 1.2
3/16	6300 11.8	2800 6.3	2500 3.9	2000 3.1	1600 1.2
1/4	5300 11.8	2360 7.9	2120 3.9	1600 3.1	1300 1.2
5/16	4000 11.8	1800 9.3	1600 3.9	1200 3.1	1000 1.2
3/8	3150 11.8	1400 9.3	1250 3.9	1000 3.1	800 1.2
1/2	2650 11.8	1180 9.3	1060 3.9	820 3.1	700 1.2

SUGGESTED SPEEDS & FEEDS 4 FLUTE CARBIDE END MILLS SIDE MILLING



Work Material	Aluminum	Cast Iron	Medium Carbon Steels Mild Steel	"Pre-hardened, Stainless Die, & Alloy Steels"	"Pre-hardened, Stainless Die, & Alloy Steels"
Hardness				<HRC30	HRC30-40
Depth of Cut: Ad= 1.50 Rd=0.1D					
Mill Dia. (inch)	V=330-400 SFM Speed Feed RPM IPM	V=100-150 SFM Speed Feed RPM IPM	V=100-150 SFM Speed Feed RPM IPM	V=80-115 SFM Speed Feed RPM IPM	V=80-100 SFM Speed Feed RPM IPM
.030	40000 24.8	16000 6.9	14000 3.3	10000 2.0	10000 1.0
3/64	31500 24.8	14000 9.6	11000 4.7	8000 3.3	8000 2.0
1/16	21200 24.8	9500 9.6	7500 4.7	5300 3.3	5400 2.0
5/64	16000 24.8	7100 13.8	5500 4.7	4000 3.3	4000 2.0
1/8	12500 24.8	4750 16.5	4500 8.3	3550 6.7	3150 2.5
5/32	9500 26.2	3550 16.5	3550 9.6	2650 6.7	2360 2.5
3/16	7500 26.2	2800 16.5	2800 11.0	2120 6.7	1900 2.5
1/4	6300 26.2	2360 16.5	2360 11.0	1700 6.7	1600 2.5
5/16	4750 27.6	1800 16.5	1800 11.0	1320 6.7	1180 2.5
3/8	3750 27.6	1400 17.3	1400 12.2	1060 6.7	950 2.5
1/2	3150 30.7	1180 17.3	1180 12.2	850 6.7	800 2.5

SUGGESTED SPEEDS & FEEDS 4 FLUTE CARBIDE END MILLS SLOTTING



Work Material	Aluminum	Cast Iron	Medium Carbon Steels Mild Steel	"Pre-hardened, Stainless Die, & Alloy Steels"	"Pre-hardened, Stainless Die, & Alloy Steels"
Hardness				<HRC30	HRC30-40
Depth of Cut: Up to 1/32 AD=0.2D. From 1/32 to 5/64 Ad=0.3D. Over 5/64 Ad=0.5D.					
Mill Dia. (inch)	V=330 SFM Speed Feed RPM IPM	V=100-150 SFM Speed Feed RPM IPM	V=100-130 SFM Speed Feed RPM IPM	V=65-100 SFM Speed Feed RPM IPM	V=65-82 SFM Speed Feed RPM IPM
.030	40000 11.0	16000 6.9	14000 3.5	8000 1.4	8000 0.8
3/64	31500 11.0	14000 7.9	12500 4.1	7500 1.7	7000 0.8
1/16	21200 11.0	9500 7.9	8500 4.9	6500 2.0	5000 1.1
5/64	16000 16.5	7100 8.3	6300 5.5	5000 3.3	4000 1.7
1/8	11200 16.5	4750 8.9	4250 5.5	3200 4.3	2600 1.7
5/32	8000 16.5	3550 8.9	3150 5.5	2400 4.3	2000 1.7
3/16	6300 16.5	2800 8.9	2500 5.5	2000 4.3	1600 1.7
1/4	5300 16.5	2360 11.0	2120 5.5	1600 4.3	1300 1.7
5/16	4000 16.5	1800 13.0	1600 5.5	1200 4.3	1000 1.7
3/8	3150 16.5	1400 13.0	1250 5.5	1000 4.3	800 1.7
1/2	2650 16.5	1180 13.0	1060 5.5	820 4.3	700 1.7

TOOL SERIES INDEX LOOK-UP



SERIES	PAGE	SERIES	PAGE
13000.....	50	49000LR.....	71
14000.....	82	49000LRT.....	71
14500.....	82	49250-00.....	71
15000.....	57	49250T-00.....	71
16000.....	57	51200.....	28
17000.....	48	51300.....	29
18600.....	94	51400.....	28
22000.....	72	51500.....	29
22000LR.....	72	51800.....	30
23000 & LR.....	73	51900.....	30
24000.....	72	52000.....	26
24000LR.....	72	52000TL.....	27
25000 & LR.....	73	52000BTL.....	27
26000.....	72	54000.....	26
26200.....	72	54000TL.....	27
28000 & TL.....	65	55000.....	31
28000SP.....	64	56000.....	31
28100 & TL.....	65	57000.....	51
28300 & TL.....	65	58000.....	51
28400 & TL.....	64	58700.....	49
30100.....	76	59000.....	40
30200.....	76	59200.....	41
30300.....	76	59400.....	40
30400.....	76	59900.....	49
30600.....	76	60000.....	56
30900.....	76	61000.....	56
31000.....	74	62000.....	54
31000TL.....	74	62000Z.....	54
32000.....	74	62015 & TL.....	80
32000TL.....	74	63000.....	55
33000.....	75	63000Z.....	55
33000CS.....	75	63015 & TL.....	80
34000TL.....	78	64015 & TL.....	80
35000TL.....	78	65015 & TL.....	80
36000 & TL.....	78	66000 & TL.....	81
37000 & TL.....	79	67000 & TL.....	81
38000 & TL.....	79	68000 & TL.....	81
39000 & TL.....	78	69000 & TL.....	81
41000.....	77	70000.....	53
41000US.....	77	70000B.....	53
42000.....	77	70000Z.....	53
43000.....	77	70000BZ.....	53
43900.....	68	72000.....	7
44000.....	66	72000B.....	7
45500.....	67	72000TL.....	9
45600.....	67	72000BTL.....	9
48000 & TL.....	69	74000.....	17
49000 & TL.....	70	74000B.....	17



SERIES	PAGE	SERIES	PAGE
74000TL	19	92000 & TL.....	62
74000BTL.....	19	94000 & TL.....	62
76200	11	95000 & TL.....	63
76200B.....	11	96000 & TL.....	63
76300	13	98000 & TL.....	60
76300B.....	13	98000FL	60
76400	21	98000FLT.....	60
76400B.....	21	99000	58
76500	23	99000FL	61
76500B.....	23	99000FLT.....	61
77700	94	99000TC.....	59
77800	94	99000TL	59
79400	47	ACH1000.....	25
80000	52	GRX1000	84
80000B.....	52	GRX2000.....	84
80000Z.....	52	GRX200-000.....	88
80000BZ.....	52	GRX400-000.....	89
81000	10	GRX8000	85
81000B.....	10	GRX9000	85
81000TL	12	GRX000	86
81000BTL.....	12	GRX000B	86
82000	4	GRX3000.....	87
82000B.....	4	GRX3000B	87
82000TL	8	GRX4000.....	90
82000BTL.....	8	GRX5000.....	90
83000	14	GRX4500.....	91
83100	15	GRX5500.....	91
83200	14	GRX6000.....	93
83300	14	GRX6500.....	92
83400	14	GRX7000.....	93
83500	15	GRX7500.....	92
83600	15	LF3000	33
83700	15	LF4000	32
84000	16	LF5000	34
84000B.....	16	LF6000	35
85000	20	MCH-400	83
85000B.....	20	MCH-0000.....	83
85000TL	22	NC000-00.....	73
85000BTL.....	22	PC1000	95
86000	24	PC2000	95
86000B.....	24	SF3000	37
86000-000	42	SF3000B.....	37
88000	18	SF4000	36
88000B.....	18	SF4000B.....	36
89000-000	44, 45	SF5000	38
89900-000	43	SF6000	39
89400	46	SF6000B.....	39

MICROCUT

Sharp Ideas for Carbide Cutting Tools

Micro Machining
High Performance Miniature End Mills
.002" - .125" Diameter



High Performance
Carbide End Mills
for Stainless,
Inconel,
Titanium,
Aluminum
and Copper



MICROCUT, INC.

68 Evergreen St., Unit 3, Kingston, MA 02364

TOLL FREE 866-426-3300

TEL 781-582-8090 • FAX 781-582-8095

info@microcutUSA.com • www.microcutUSA.com

Distributed By: