



MYLES

TOOL COMPANY INC



2013

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Metal-Max - Standard Length AlTiN

METAL MAX Heavy Duty core construction combined with variable helix design creates a rigid tool that runs virtually chatter free.
 .0005-.0015 honed edge. Tools are center cutting AlTiN Coated

MTMX - Std. Length



Part # 4 FL	Cutter Diameter	Shank Diameter	Length Of Cut	Rad Size	Overall Length	Tool Price
18MTMX	1/8	1/8	3/8	.010-.015	1 1/2	\$18.50
532MTMX	5/32	3/16	7/16	.010-.015	2	\$22.73
316MTMX	3/16	3/16	7/16	.010-.015	2	\$21.65
732MTMX	7/32	1/4	7/16	.015-.020	2 1/2	\$30.61
14MTMX	1/4	1/4	5/8	.015-.020	2 1/2	\$29.15
932MTMX	9/32	5/16	5/8	.015-.020	2 1/2	\$38.15
516MTMX	5/16	5/16	3/4	.015-.020	2 1/2	\$36.32
38MTMX	3/8	3/8	7/8	.015-.020	2 1/2	\$43.91
716MTMX	7/16	7/16	1	.015-.020	2 3/4	\$52.03
12MTMX	1/2	1/2	1	.025-.030	3	\$68.96
58MTMX	5/8	5/8	1 1/4	.030-.035	3 1/2	\$119.54
34MTMX	3/4	3/4	1 1/2	.030-.035	4	\$172.42
1MTMX	1	1	1 1/2	.030-.035	4	\$258.90

Metal-Max - Standard Ballnose AlTiN

MTMXB - Std. Ballnose



Part # 4 FL	Cut Diameter	Shank Diameter	Length Of Cut	Overall Length	Tool Price
18MTMXB	1/8	1/8	3/8	1 1/2	\$25.19
532MTMXB	5/32	3/16	7/16	2	\$29.75
316MTMXB	3/16	3/16	7/16	2	\$28.34
732MTMXB	7/32	1/4	7/16	2 1/2	\$38.01
14MTMXB	1/4	1/4	5/8	2 1/2	\$36.18
932MTMXB	9/32	5/16	5/8	2 1/2	\$44.14
516MTMXB	5/16	5/16	3/4	2 1/2	\$42.03
38MTMXB	3/8	3/8	7/8	2 1/2	\$48.02
716MTMXB	7/16	7/16	1	2 3/4	\$58.02
12MTMXB	1/2	1/2	1	3	\$85.46
58MTMXB	5/8	5/8	1 1/4	3 1/2	\$141.37
34MTMXB	3/4	3/4	1 1/2	4	\$201.60
1MTMXB	1	1	1 1/2	4	\$304.13

Now available as a coolant thru cutter!

Weldon flats available upon request.

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Weldon flats available upon request.

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

MTMXS - Stub Length



Part # 4 FL	Cut Diameter	Length Of Cut	Shank Diam	Rad Size	Overall Length	Tool Price
18MTMXS	1/8	7/32	1/8	.005-.010	1.5	\$17.68
532MTMXS	5/32	9/32	3/16	.005-.010	2	\$20.56
316MTMXS	3/16	5/16	3/16	.010-.015	2	\$19.69
732MTMXS	7/32	5/16	1/4	.015-.020	2	\$26.43
14MTMXS	1/4	3/8	1/4	.015-.020	2	\$25.31
932MTMXS	9/32	3/8	5/16	.015-.020	2	\$33.69
516MTMXS	5/16	3/8	5/16	.015-.020	2	\$32.51
38MTMXS	3/8	1/2	3/8	.015-.020	2	\$38.40
12MTMXS	1/2	5/8	1/2	.025-.030	2 1/2	\$57.71
58MTMXS	5/8	3/4	5/8	.030-.035	3	\$102.50
34MTMXS	3/4	7/8	3/4	.030-.035	4	\$161.24
1MTMXS	1	1	1	.030-.035	4	\$250.52

MTMXL - Long Length



Part # 4 FL	Shank Diameter	Length Of Cut	Cut Diam	Rad Size	Overall Length	Tool Price
14MTMXL	1/4	1 1/4	1/4	.015-.020	3	\$45.90
38MTMXL	3/8	1 1/4	3/8	.015-.020	3	\$66.46
12MTMXL	1/2	2	1/2	.025-.030	4	\$104.66
58MTMXL	5/8	2 1/4	5/8	.030-.035	5	\$167.31
34MTMXL	3/4	2 1/4	3/4	.030-.035	5	\$236.89

MTMX2L - Long Reach



Part # 4 FL	Shank Diameter	Length Of Cut	Cut Diam	Rad Size	Overall Length	Tool Price
14MTMX2L	1/4	5/8	1/4	.015-.020	4	\$46.64
38MTMX2L	3/8	7/8	3/8	.015-.020	4	\$66.18
12MTMX2L	1/2	1	1/2	.025-.030	6	\$119.29
58MTMX2L	5/8	1 1/4	5/8	.030-.035	6	\$184.06
34MTMX2L	3/4	1 1/2	3/4	.030-.035	6	\$282.43

MTMXSQ - SQ. Corner Stand. Length



Part # 4 FL	Shank Diameter	Length Of Cut	Cut Diam	Overall Length	Tool Price
14MTMXSQ	1/4	5/8	1/4	2 1/2	\$29.15
516MTMXSQ	5/16	3/4	5/16	2 1/2	\$36.32
38MTMXSQ	3/8	7/8	3/8	2 1/2	\$43.91
716MTMXSQ	7/16	1	7/16	2 3/4	\$52.03
12MTMXSQ	1/2	1	1/2	3	\$68.96
58MTMXSQ	5/8	1 1/4	5/8	3 1/2	\$119.54
34MTMXSQ	3/4	1 1/2	3/4	4	\$172.42
1MTMXSQ	1	1 1/2	1	4	\$258.90

Starting Recommended Speeds and Feeds

Materials	Profile Width = 1/4 x Diameter			Slotting Depth = 1 x Diameter		
	Steel	Cast Iron	Tool Steel	Steel	Cast Iron	Tool Steel
Diameter	600-750 SFM	500-650 SFM	425-525 SFM	475-660 SFM	400-550 SFM	325-425 SFM
1/4	.0014	.0014	.0013	.0012	.0013	.0011
5/16	.0017	.0017	.0016	.0013	.0016	.0013
3/8	.002	.0022	.002	.0016	.0019	.0015
1/2	.0026	.0029	.0025	.0023	.0025	.002
5/8	.0028	.0032	.0028	.0024	.0027	.0022
3/4	.0032	.0036	.0031	.0025	.0031	.0025
1	.0038	.0043	.0038	.0032	.0038	.0032

NOTE:

- These are approximate numbers, a good starting point.
- Coolant application is an important part of using the variable flute geometries
- Tools perform best when balanced.

TECH NOTES - WARNING! – Due to the high metal removal rates of the Metal-Max tools, it is necessary to make all work holding components as rigid as possible!

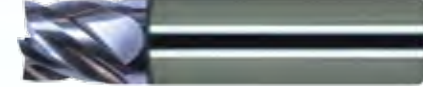


**MTMX5 -
5 Flute - Standard Length Altin**

This 5 flute variable helix cutter is designed for use in stainless steels and exotic materials. This cutter will reduce work hardening, and impact resistance common to high strength materials. This tool can be used for roughing or finishing with reduced harmonics and longer tool life in stainless and aerospace materials.

5 FL Part #	Cut Dia	Shank	LOC	Corner Rad	OAL	Price
18MTMX5	1/8	1/8	3/8	.010-.015	1 1/2	\$18.50
532MTMX5	5/32	3/16	7/16	.010-.015	2	\$22.73
316MTMX5	3/16	3/16	7/16	.010-.015	2	\$21.65
732MTMX5	7/32	1/4	7/16	.015-.020	2 1/2	\$30.61
14MTMX5	1/4	1/4	5/8	.015-.020	2 1/2	\$29.15
932MTMX5	9/32	5/16	5/8	.015-.020	2 1/2	\$38.15
516MTMX5	5/16	5/16	3/4	.015-.020	2 1/2	\$36.32
38MTMX5	3/8	3/8	7/8	.015-.020	2 1/2	\$43.91
716MTMX5	7/16	7/16	1	.015-.020	2 3/4	\$52.03
12MTMX5	1/2	1/2	1	.025-.030	3	\$68.96
58MTMX5	5/8	5/8	1 1/4	.030-.035	3 1/2	\$119.54
34MTMX5	3/4	3/4	1 1/2	.030-.035	4	\$172.42
1MTMX5	1	1	1 1/2	.030-.035	4	\$258.90

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide



**MTMX5S -
5 Flute - Stub Length Altin**

5 FL Part #	Cut Dia	Shank	LOC	Corner Rad	OAL	Price
18MTMX5S	1/8	1/8	7/32	.010-.015	1.5	\$17.68
532MTMX5S	5/32	3/16	9/32	.010-.015	2	\$20.56
316MTMX5S	3/16	3/16	5/16	.010-.015	2	\$19.69
732MTMX5S	7/32	1/4	5/16	.015-.020	2	\$26.43
14MTMX5S	1/4	1/4	3/8	.015-.020	2	\$25.31
932MTMX5S	9/32	5/16	3/8	.015-.020	2	\$33.69
516MTMX5S	5/16	5/16	3/8	.015-.020	2	\$32.51
38MTMX5S	3/8	3/8	1/2	.015-.020	2	\$38.40
716MTMX5S	7/16	7/16	5/8	.015-.020	2 1/2	\$57.71
12MTMX5S	1/2	1/2	5/8	.025-.030	3	\$68.96

Starting Recommended Speeds and Feeds

Materials	Profile			Slotting		
	Radial Depth = .5 x Diameter Axial Depth = 1 x Diameter			Axial Depth = .5 x Diameter		
	Stainless 300 Series 304, 310, 316	Stainless 400 Series 409, 430, 436	Stainless 15-5 17-4PH	Stainless 300 Series 304, 310, 316	Stainless 400 Series 409, 430, 436	Stainless 15-5 17-4PH
Diameter	300 SFM	250 SFM	250 SFM	240 SFM	200 SFM	200 SFM
1/4	.001	.001	.001	.0008	.0008	.0008
5/16	.0015	.0015	.0014	.0012	.0012	.0011
3/8	.002	.002	.0019	.0016	.0016	.0015
1/2	.0025	.0025	.0022	.002	.002	.0018
5/8	.003	.003	.0027	.0025	.0025	.0022
3/4	.0035	.0035	.003	.0028	.0028	.0024
1	.0042	.0042	.004	.0034	.0034	.0032

NOTE:

- These are approximate numbers, a good starting point.
- Coolant application is an important part of using the Metal-Max Tool
- Tools perform best when balanced.

The Kwic-Cut is a 6 flute tool specifically designed for high performance profile milling.

Series:

780



Part #	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Tool Price
7800014	1/4	3/4	1/4	2 1/2	\$34.62
7800516	5/16	13/16	5/16	2 1/2	\$42.95
7800038	3/8	1	3/8	2 1/2	\$49.45
7800716	7/16	1	7/16	2 1/2	\$58.96
7800012	1/2	1 1/4	1/2	3	\$68.63
7800058	5/8	1 5/8	5/8	3 1/2	\$115.60
7800034	3/4	1 5/8	3/4	4	\$161.86
7800001	1	2	1	4	\$263.94

TECH NOTES – For best Kwic-Cut performance, use 5-30% radial depth of cut. 31% OR MORE IS NOT RECOMMENDED.

Can be modified into a coolant thru cutter!

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Recommended Speeds and Feeds

Materials	Carbon Steel	Stainless Steel	Alloy Steel	Nickel/High Temp	Titanium and Alloys
Diameter	(275-750 SFM)	(90-450 SFM)	(200-600 SFM)	(45-115 SFM)	(250-400 SFM)
1/4	.003	.002	.0008-.001	.0015-.002	.001-.002
3/8	.003	.002	.0008-.001	.0015-.002	.001-.002
1/2	.004	.0025-.003	.001-.002	.002-.0025	.001-.0025
5/8	.005	.003-.004	.0015-.003	.002-.0035	.002-.003
3/4	.006	.004-.005	.002-.004	.002-.004	.0025-.004
1	.007	.005-.006	.003-.005	.003-.005	.004-.006

NOTE:

- These are approximate numbers, a good starting point.
- Coolant application is an important part of using the Kwic-Cut Tool
- Tools perform best when balanced.

Due to fluctuating carbide costs, prices subject to change.

Sharp Corner Non-Center Cutting



6 FL Part #	Diameter	LOC	Shank	OAL	Price
18HRDML	1/8	3/8	1/8	1 1/2	\$26.78
532HRDML	5/32	7/16	3/16	2	\$32.34
316HRDML	3/16	1/2	3/16	2	\$31.17
14HRDML	1/4	5/8	1/4	2 1/2	\$38.68
516HRDML	5/16	3/4	5/16	2 1/2	\$49.52
38HRDML	3/8	7/8	3/8	2 1/2	\$60.49
12HRDML	1/2	1	1/2	3	\$86.46
58HRDML	5/8	1 1/4	5/8	3 1/2	\$132.88
34HRDML	3/4	1 5/8	3/4	4	\$186.63

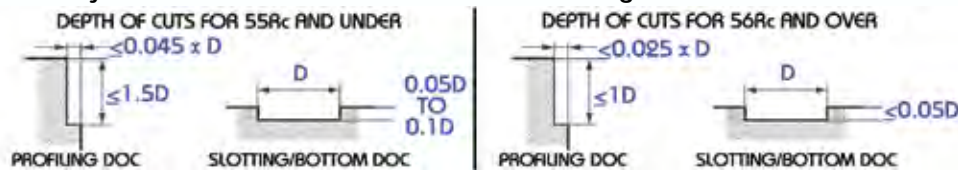
Corner Rad Non-Center Cutting



Part #	Diameter	LOC	Shank	Corner Radius	OAL	Price
18HRDMLR	1/8	3/8	1/8	.010R	1 1/2	\$29.49
532HRDMLR	5/32	7/16	3/16	.010R	2	\$36.10
316HRDMLR	3/16	1/2	3/16	.010R	2	\$35.63
14HRDMLR	1/4	5/8	1/4	.010R	2 1/2	\$42.89
516HRDMLR	5/16	3/4	5/16	.010R	2 1/2	\$56.50
38HRDMLR	3/8	7/8	3/8	.010R	2 1/2	\$66.08
12HRDMLR	1/2	1	1/2	.020R	3	\$93.45
58HRDMLR	5/8	1 1/4	5/8	.020R	3 1/2	\$144.06
34HRDMLR	3/4	1 5/8	3/4	.030R	4	\$202.02

Material	Tool Steel (-55HRC) AISI H13 ETC		Hardened Steel (55-60HRC) AISI D2 ETC		Hardened Steel (60-65HRC) AISI D2 ETC	
	SFM	Chip Load (inch per tooth)	SFM	Chip Load (inch per tooth)	SFM	Chip Load (inch per tooth)
1/8 & 5/32	250 - 900	.0007 - .001	200 - 500	.0007 - .001	150 - 325	.0006 - .0008
3/16	250 - 900	.001 - .0015	200 - 500	.001 - .0015	150 - 325	.001 - .0014
1/4	250 - 800	.002 - .0025	200 - 500	.002 - .0025	150 - 300	.002 - .0024
5/16	250 - 800	.0025 - .003	250 - 500	.0025 - .003	150 - 250	.0020 - .003
3/8 & 1/2	300 - 850	.0030 - .004	300 - 500	.0030 - .004	150 - 250	.0030 - .004
5/8 & 3/4	350 - 800	.0030 - .004	350 - 500	.0030 - .004	150 - 250	.0030 - .004

Run Dry With Air Blast Or Oil Mist. Non-Center Cutting - DO NOT PLUNGE TOOL



Standard



VARIABLE HELIX 350, 360

Part #	Part #	Cut Diameter	Flute Length	Shank Diameter	Corner Radius	Overall Length	Tool Price
350018	360018	1/8	1/2	1/8	.003-.005	1 1/2	\$18.88
350316	360316	3/16	5/8	3/16	.003-.005	2	\$26.01
350014	360014	1/4	3/4	1/4	.003-.005	2 1/2	\$35.73
350516	360516	5/16	3/4	5/16	.003-.005	2 1/2	\$42.94
350038	360038	3/8	1	3/8	.003-.005	2 1/2	\$51.29
350716	360716	7/16	1	7/16	.003-.005	2 1/2	\$59.47
350012	360012	1/2	1 1/4	1/2	.005-.007	3	\$66.69
350058	360058	5/8	1 5/8	5/8	.005-.007	3 1/2	\$113.15
350034	360034	3/4	1 3/4	3/4	.005-.007	4	\$175.30
350001	360001	1	1 3/4	1	.005-.007	4	\$276.65

Standard



VARIABLE HELIX 350X, 360X ZrN

2 FL	3 FL	Cut Dia	LOC	Shank	Radius	OAL	Ctd Price
350018X	360018X	1/8	1/2	1/8	.003-.005	1 1/2	\$21.20
350316X	360316X	3/16	5/8	3/16	.003-.005	2	\$28.34
350014X	360014X	1/4	3/4	1/4	.003-.005	2 1/2	\$39.41
350516X	360516X	5/16	3/4	5/16	.003-.005	2 1/2	\$48.55
350038X	360038X	3/8	1	3/8	.003-.005	2 1/2	\$57.50
350716X	360716X	7/16	1	7/16	.003-.005	2 1/2	\$65.77
350012X	360012X	1/2	1 1/4	1/2	.005-.007	3	\$74.42
350058X	360058X	5/8	1 5/8	5/8	.005-.007	3 1/2	\$123.65
350034X	360034X	3/4	1 3/4	3/4	.005-.007	4	\$186.92
350001X	360001X	1	1 3/4	1	.005-.007	4	\$294.01

Ballnose

VARIABLE HELIX
340, 340X ZrN



Uncoated #	Coated #	Tool	Flute	Shank	Overall	Uncoated	Coated
2 Flute	2 Flute	Diameter	Length	Diameter	Length	Price	Price
340018	340018X	1/8	1/2	1/8	1 1/2	\$26.86	\$29.18
340316	340316X	3/16	5/8	3/16	2	\$33.99	\$36.32
340014	340014X	1/4	3/4	1/4	2 1/2	\$46.91	\$50.58
340516	340516X	5/16	3/4	5/16	2 1/2	\$55.51	\$61.12
340038	340038X	3/8	1	3/8	2 1/2	\$68.06	\$74.26
340012	340012X	1/2	1 1/4	1/2	3	\$96.03	\$103.75
340058	340058X	5/8	1 5/8	5/8	3 1/2	\$138.30	\$148.80
340034	340034X	3/4	1 3/4	3/4	4	\$196.26	\$207.88
340001	340001X	1	1 3/4	1	4	\$290.62	\$307.98

Square Corner

VARIABLE HELIX 320X, 330X ZrN

To order UNCOATED remove the X from the end of the part number



Part #	Part #	Tool	Flute	Shank	Overall	Uncoated	Coated
2 FL	3 FL	Diameter	Length	Diameter	Length	Price	Price
320014X	330014X	1/4	3/4	1/4	2 1/2	\$34.43	\$37.68
320516X	330516X	5/16	3/4	5/16	2 1/2	\$43.48	\$47.52
320038X	330038X	3/8	1	3/8	2 1/2	\$51.65	\$56.50
320716X	330716X	7/16	1	7/16	2 1/2	\$59.55	\$64.98
320012X	330012X	1/2	1 1/4	1/2	3	\$67.50	\$73.49
320058X	330058X	5/8	1 5/8	5/8	3 1/2	\$113.72	\$122.40
320034X	330034X	3/4	1 3/4	3/4	4	\$175.38	\$185.63
320001X	330001X	1	1 3/4	1	4	\$277.01	\$292.15

Stub

VARIABLE HELIX
360SX



Uncoated #	Coated #	Tool	LOC	Shank	Corner	OAL	Unctd	Coated
3 Flute	3 Flute	Dia		Dia	Radius		Price	Price
360018S	360018XS	1/8	1/4	1/8	.003-.005	1 1/2	\$19.95	\$21.20
360316S	360316XS	3/16	5/16	3/16	.003-.005	2	\$26.76	\$28.34
360014S	360014XS	1/4	3/8	1/4	.003-.005	2	\$36.96	\$39.41
360516S	360516XS	5/16	3/8	5/16	.003-.005	2	\$45.57	\$48.55
360038S	360038XS	3/8	1/2	3/8	.003-.005	2	\$53.99	\$57.50
360012S	360012XS	1/2	3/4	1/2	.005-.007	3	\$68.43	\$74.42

Long

VARIABLE HELIX
350LX, 360LX ZrN

To order UNCOATED remove the X from the end of the part number



Part #	Part #	Tool	Flute	Shank	Corner	OAL	Uncoated	Coated
2 FL	3 FL	Dia	Length	Dia	Radius		Price	Price
350014LX	360014LX	1/4	1 1/4	1/4	.003-.005	3	\$48.63	\$52.31
350516LX	360516LX	5/16	1 3/8	5/16	.003-.005	3	\$57.53	\$63.14
350038LX	360038LX	3/8	1 1/2	3/8	.003-.005	3 1/2	\$67.19	\$74.91
350012LX	360012LX	1/2	2	1/2	.005-.007	4	\$100.86	\$110.32
350058LX	360058LX	5/8	2 3/8	5/8	.005-.007	5	\$154.84	\$168.17
350034LX	360034LX	3/4	2 1/2	3/4	.005-.007	5	\$211.16	\$225.93
350001LX	360001LX	1	3	1	.005-.007	6	\$316.26	\$336.18

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Standard Rougher/Finisher



VARIABLE HELIX
350RF, 360RF

Part # 2 FL	Part # 3 FL	Tool Diameter	Flute Length	Shank Diameter	Corner Radius	Overall Length	Tool Price
350018RF	360018RF	1/8	1/2	1/8	.003-.005	1 1/2	\$22.87
350316RF	360316RF	3/16	5/8	3/16	.003-.005	2	\$30.00
350014RF	360014RF	1/4	3/4	1/4	.003-.005	2 1/2	\$40.79
350516RF	360516RF	5/16	3/4	5/16	.003-.005	2 1/2	\$49.10
350038RF	360038RF	3/8	1	3/8	.003-.005	2 1/2	\$58.68
350012RF	360012RF	1/2	1 1/4	1/2	.005-.007	3	\$75.74
350058RF	360058RF	5/8	1 5/8	5/8	.005-.007	3 1/2	\$134.86
350034RF	360034RF	3/4	1 3/4	3/4	.005-.007	4	\$193.98
350001RF	360001RF	1	1 3/4	1	.005-.007	4	\$308.72

Ballnose Rougher/Finisher



VARIABLE HELIX
340RF, 340XRF ZrN

Part # 2 FL	Coated # 2 FL	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Uncoated Price	Coated Price
340018RF	340018XRF	1/8	1/2	1/8	1 1/2	\$34.85	\$37.16
340316RF	340316XRF	3/16	5/8	3/16	2	\$43.97	\$46.30
340014RF	340014XRF	1/4	3/4	1/4	2 1/2	\$53.57	\$57.24
340516RF	340516XRF	5/16	3/4	5/16	2 1/2	\$64.47	\$70.07
340038RF	340038XRF	3/8	1	3/8	2 1/2	\$78.04	\$84.24
340012RF	340012XRF	1/2	1 1/4	1/2	3	\$109.07	\$116.80
340058RF	340058XRF	5/8	1 5/8	5/8	3 1/2	\$156.01	\$166.51
340034RF	340034XRF	3/4	1 3/4	3/4	4	\$219.92	\$231.54
340001RF	340001XRF	1	1 3/4	1	4	\$323.69	\$341.05

Standard Rougher/Finisher



VARIABLE HELIX
350XRF, 360XRF ZrN

2 FL	3 FL	Tool Diam	Length	Diameter	Radius	Length	Price
350018XRF	360018XRF	1/8	1/2	1/8	.003-.005	1 1/2	\$25.19
350316XRF	360316XRF	3/16	5/8	3/16	.003-.005	2	\$32.33
350014XRF	360014XRF	1/4	3/4	1/4	.003-.005	2 1/2	\$44.47
350516XRF	360516XRF	5/16	3/4	5/16	.003-.005	2 1/2	\$54.71
350038XRF	360038XRF	3/8	1	3/8	.003-.005	2 1/2	\$64.88
350012XRF	360012XRF	1/2	1 1/4	1/2	.005-.007	3	\$83.47
350058XRF	360058XRF	5/8	1 5/8	5/8	.005-.007	3 1/2	\$145.36
350034XRF	360034XRF	3/4	1 3/4	3/4	.005-.007	4	\$205.59
350001XRF	360001XRF	1	1 3/4	1	.005-.007	4	\$326.08

Square Rougher/Finisher



VARIABLE HELIX
320XRF, 330XRF ZrN

Part # 2 FL	Part # 3 FL	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
320014XRF	330014XRF	1/4	3/4	1/4	2 1/2	\$43.67
320516XRF	330516XRF	5/16	3/4	5/16	2 1/2	\$53.51
320038XRF	330038XRF	3/8	1	3/8	2 1/2	\$63.49
320012XRF	330012XRF	1/2	1 1/4	1/2	3	\$81.47
320058XRF	330058XRF	5/8	1 5/8	5/8	3 1/2	\$143.36
320034XRF	330034XRF	3/4	1 3/4	3/4	4	\$203.60
320001XRF	330001XRF	1	1 3/4	1	4	\$324.08

Long Rougher/Finisher



VARIABLE HELIX
350LRF, 360LRF

Part # 2 FL	Part # 3 FL	Tool Diameter	Flute Length	Shank Diameter	Corner Radius	Overall Length	Tool Price
350014LRF	360014LRF	1/4	1 1/4	1/4	.003-.005	3	\$55.60
350516LRF	360516LRF	5/16	1 3/8	5/16	.003-.005	3	\$65.38
350038LRF	360038LRF	3/8	1 1/2	3/8	.003-.005	3 1/2	\$76.28
350012LRF	360012LRF	1/2	2	1/2	.005-.007	4	\$114.36
350058LRF	360058LRF	5/8	2 3/8	5/8	.005-.007	5	\$155.97
350034LRF	360034LRF	3/4	2 1/2	3/4	.005-.007	5	\$238.08
350001LRF	360001LRF	1	3	1	.005-.007	6	\$354.74

Long Rougher/Finisher



VARIABLE HELIX
350LXRF, 360LXRF ZRN

Part # 2 FL	Part # 3 FL	Tool Diam	Flute Length	Shank Diam	Corner Radius	Overall Length	Tool Price
350014LXRF	360014LXRF	1/4	1 1/4	1/4	.003-.005	3	\$59.28
350516LXRF	360516LXRF	5/16	1 3/8	5/16	.003-.005	3	\$70.99
350038LXRF	360038LXRF	3/8	1 1/2	3/8	.003-.005	3 1/2	\$84.00
350012LXRF	360012LXRF	1/2	2	1/2	.005-.007	4	\$123.82
350058LXRF	360058LXRF	5/8	2 3/8	5/8	.005-.007	5	\$169.31
350034LXRF	360034LXRF	3/4	2 1/2	3/4	.005-.007	5	\$252.85
350001LXRF	360001LXRF	1	3	1	.005-.007	6	\$374.66

Recommended Speeds and Feeds

Slotting Depth = 1 x Diameter

Profile Width = 1/2 x Diameter

Materials	Brass/Bronze	Copper Alloys	Aluminum	Plastics
Diameter	(800-1500 SFM)	(800-1200 SFM)	(1600-2000 SFM)	(1200-1600 SFM)
1/4	.003 ipt	.003 ipt	.003 ipt	.006 ipt
5/16	.004 ipt	.004 ipt	.004 ipt	.008 ipt
3/8	.005 ipt	.005 ipt	.005 ipt	.010 ipt
1/2	.006 ipt	.006 ipt	.006 ipt	.012 ipt
5/8	.007 ipt	.007 ipt	.007 ipt	.014 ipt
3/4	.008 ipt	.008 ipt	.008 ipt	.016 ipt
1	.010 ipt	.010 ipt	.010 ipt	.020 ipt

ipt = inches per tooth

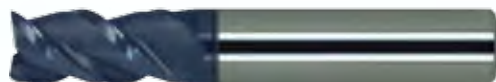
NOTE:

- These are approximate numbers, a good starting point.
- Coolant application is an important part of using the Aluma-Max Tool
- Tools perform best when balanced.

AITiN

45° & 60° Helix Endmills

Series: 380 AITiN



45°
Helix

Part #	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Tool Price
3800018	1/8	1/2	1/8	1 1/2	\$13.78
3800316	3/16	3/4	3/16	2	\$17.29
3800014	1/4	3/4	1/4	2 1/2	\$20.13
3800516	5/16	13/16	5/16	2 1/2	\$26.10
3800038	3/8	7/8	3/8	2 1/2	\$32.09
3800012	1/2	1	1/2	3	\$56.91
3800058	5/8	1 1/4	5/8	3 1/2	\$110.99
3800034	3/4	1 1/2	3/4	4	\$157.90

Series: 390 AITiN



60°
Helix

Part #	Tool Diameter	Flute Length	Shank Diam-	Overall Length	Tool Price
3900018	1/8	1/2	1/8	1 1/2	\$13.78
3900316	3/16	5/8	3/16	2	\$17.29
3900014	1/4	3/4	1/4	2 1/2	\$20.13
3900516	5/16	13/16	5/16	2 1/2	\$26.10
3900038	3/8	7/8	3/8	2 1/2	\$32.09
3900012	1/2	1	1/2	3	\$56.91
3900058	5/8	1 1/4	5/8	3 1/2	\$110.99
3900034	3/4	1 1/2	3/4	4	\$157.90

45 & 60 degree helix end mills are designed for higher speeds and feeds while providing a shearing action that produces improved surface finish.
AITiN Coated

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

AITiN

Pre-Ream Endmills

Series: PRERM



Part Number	Cut Diameter	Corner Radius	Flute Length	Shank Diameter	Overall Length	Tool Price
PRERM018XR	.119	.005-.007	1/2	1/8	1 1/2	\$13.65
PRERM316XR	.181	.005-.007	5/8	3/16	2	\$16.75
PRERM014XR	.244	.005-.007	3/4	1/4	2 1/2	\$23.36
PRERM516XR	5/16	.005-.007	7/8	5/16	2 1/2	\$29.87
PRERM038XR	.368	.005-.007	7/8	3/8	2 1/2	\$36.86
PRERM012XR	.493	.005-.007	1	1/2	3	\$59.24
PRERMPACXR	One each of the above tools stored in a plastic case					\$173.31



Part Number	Cut Diameter	Corner Radius	Flute Length	Shank Diameter	Overall Length	Tool Price
PRERM03XR-M	.112	.005-.007	1/2	1/8	1 1/2	\$14.58
PRERM04XR-M	.150	.005-.007	5/8	3/16	2	\$23.24
PRERM05XR-M	.190	.005-.007	5/8	1/4	2	\$32.43
PRERM06XR-M	.230	.005-.007	3/4	1/4	2 1/2	\$25.22
PRERM08XR-M	.309	.005-.007	7/8	5/16	2 1/2	\$29.87
PRERM10XR-M	.387	.005-.007	7/8	7/16	3	\$66.43
PRERM12XR-M	.465	.005-.007	1	1/2	3	\$68.46
PRERMPACXR-M	One each of the above tools stored in a plastic case					\$250.93



Pre-ream Endmills qualify a drilled hole, leaving it perfectly round with an accurate location and the exact amount of stock left in the hole for your reamer to cut accurately and consistently. This procedure is quick and extends the tool life of your reamer. For best results we recommend the drilled hole be .012 min.- .032 max. under the size of the Pre-ream Endmill.

TiN
Threadator UNC/UNF

Threadator UNC & UNF Threadmills

- Exceptional value in a Solid Carbide TiN coated helical flute threadmill.
To order UNCOATED add the letter "B" to the end of the part number.



PART#	Shank	Cut Dia	LOC	OAL	# FL	Thread	Unc Price	Ctd Price
2-56TRML	1/8	.0650	0.125	2	3	2-56	\$75.80	\$77.22
4-40TRML	1/8	.0850	0.180	2	3	4-40	\$75.80	\$77.22
6-32TRML	1/8	0.100	0.218	2	3	6-32	\$73.94	\$75.37
8-32TRML	1/8	0.115	0.250	2	3	8-32	\$73.94	\$75.37
8-36TRML	1/8	0.115	0.250	2	3	8-36	\$73.94	\$75.37
10-24TRML	3/16	0.120	0.312	2	3	10-24	\$74.06	\$75.86
10-32TRML	3/16	0.120	0.312	2	3	10-32	\$74.06	\$75.86
1/4-20TRML	3/16	0.180	0.500	2 1/2	3	1/4-20	\$82.22	\$85.01
1/4-28TRML	3/16	0.180	0.500	2 1/2	3	1/4-28	\$82.22	\$85.01
5/16-18TRML	1/4	0.240	0.625	2 1/2	3	5/16-18	\$95.84	\$99.55
5/16-20TRML	1/4	0.240	0.625	2 1/2	3	5/16-20	\$95.84	\$99.55
5/16-24TRML	1/4	0.240	0.625	2 1/2	3	5/16-24	\$95.84	\$99.55
3/8-16TRML	5/16	0.290	0.750	3	4	3/8-16	\$127.66	\$132.28
3/8-24TRML	5/16	0.290	0.750	3	4	3/8-24	\$127.66	\$132.28
7/16-14TRML	3/8	0.340	0.875	3	4	7/16-14	\$117.36	\$122.89
7/16-20TRML	3/8	0.340	0.875	3	4	7/16-20	\$117.36	\$122.89
1/2-13TRML	3/8	0.350	0.875	3 1/2	4	1/2-13	\$126.80	\$133.89
1/2-20TRML	3/8	0.350	0.875	3 1/2	4	1/2-20	\$126.80	\$133.89
9/16-12TRML	1/2	0.370	0.875	3 1/2	4	9/16-12	\$149.50	\$158.41
9/16-18TRML	1/2	0.370	0.875	3 1/2	4	9/16-18	\$149.50	\$158.41
9/16-32TRML	1/2	0.495	1.000	3 1/2	4	9/16-32	\$169.50	\$178.40
5/8-11TRML	1/2	0.470	1.250	3 1/2	5	5/8-11	\$159.94	\$168.84
5/8-18TRML	1/2	0.470	1.250	3 1/2	5	5/8-18	\$159.94	\$168.84
3/4-10TRML	1/2	0.495	1.250	3 1/2	5	3/4-10	\$159.94	\$168.84
3/4-16TRML	1/2	0.495	1.250	3 1/2	5	3/4-16	\$159.94	\$168.84
7/8-9TRML	5/8	0.620	1.250	3 1/2	5	7/8-9	\$178.60	\$188.52
7/8-14TRML	5/8	0.620	1.250	3 1/2	5	7/8-14	\$178.60	\$188.52
1-8TRML	3/4	0.620	1.375	4	5	1-8	\$211.66	\$223.38
1-12TRML	3/4	0.620	1.375	4	5	1-12	\$211.66	\$223.38

TiN
Threadator Metric

Threadator Metric

- A complete line of high quality Metric Threadmills in stock and available for immediate delivery. Solid Carbide TiN



PART#	Shank	Cut Dia	LOC	OAL	# FL	Thread	Unc Price	Ctd Price
M3-0.50TRML	1/8	0.088	0.180	2	3	M3-0.50	\$73.95	\$75.37
M4-0.70TRML	1/8	0.120	0.250	2	3	M4-0.70	\$73.95	\$75.37
M4.5-0.75TRML	1/8	0.120	0.250	2	3	M4.5-0.75	\$73.95	\$75.37
M5-0.80TRML	3/16	0.120	0.312	2	3	M5-0.80	\$75.55	\$77.35
M6-1.00TRML	3/16	0.170	0.500	2 1/2	3	M6-1.00	\$79.91	\$82.71
M8-0.75TRML	1/4	0.235	0.625	2 1/2	3	M8-0.75	\$95.83	\$99.55
M8-1.00TRML	1/4	0.235	0.625	2 1/2	3	M8-1.00	\$95.83	\$99.55
M8-1.25TRML	1/4	0.235	0.625	2 1/2	3	M8-1.25	\$95.83	\$99.55
M10-1.00TRML	5/16	0.300	0.750	3	4	M10-1.00	\$117.77	\$122.39
M10-1.25TRML	5/16	0.300	0.750	3	4	M10-1.25	\$117.77	\$122.39
M10-1.50TRML	5/16	0.300	0.750	3	4	M10-1.50	\$117.77	\$122.39
M12-1.00TRML	3/8	0.360	0.875	3 1/2	4	M12-1.00	\$129.19	\$136.29
M12-1.25TRML	3/8	0.360	0.875	3 1/2	4	M12-1.25	\$129.19	\$136.29
M12-1.50TRML	3/8	0.360	0.875	3 1/2	4	M12-1.50	\$129.19	\$136.29
M12-1.75TRML	3/8	0.360	0.875	3 1/2	4	M12-1.75	\$129.19	\$136.29
M14-1.50TRML	3/8	0.360	0.875	3 1/2	4	M14-1.50	\$129.19	\$136.29
M16-2.00TRML	1/2	0.470	1.250	3 1/2	5	M16-2.00	\$159.94	\$168.84
M18-1.50TRML	1/2	0.470	1.250	3 1/2	5	M18-1.50	\$159.94	\$168.84
M18-2.50TRML	1/2	0.470	1.250	3 1/2	5	M18-2.50	\$159.94	\$168.84
M20-3.00TRML	5/8	0.470	1.250	3 1/2	5	M20-3.00	\$174.55	\$184.47

To order UNCOATED add the letter "B" to the end of the part number.

Technical Threadmill Data on page 30

If you find Thread Mills confusing, or need help programming your cutter - **CALL US!**

AITiN
Threadator NPT/NPTF

Threadator NPT/NPTF

– Eliminate the need to Pre-taper ream in tough materials, produce better quality and stronger threads. AITiN Coated
To order UNCOATED add the letter "B" to the end of the part number.



Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Unc Price	Ctd Price
1/16NPTTRML	1/4	0.245	0.437	2 1/2	3	1/16-27 NPT	\$96.87	\$100.59
1/8NPTTRML	5/16	0.310	0.437	2 1/2	4	1/8-27 NPT	\$101.55	\$106.17
1/4NPTTRML	3/8	0.370	0.625	3	4	1/4-18 NPT	\$117.64	\$123.18
3/8NPTTRML	3/8	0.370	0.625	3	4	3/8-18 NPT	\$117.64	\$123.18
1/2NPTTRML	1/2	0.495	0.875	3 1/2	4	1/2-14 NPT	\$168.14	\$177.04
3/4NPTTRML	1/2	0.495	0.875	3 1/2	4	3/4-14 NPT	\$168.14	\$177.04
1NPTTRML	3/4	0.620	1.125	4	5	1-11 1/2 NPT	\$224.35	\$236.07
2.5NPTTRML	1.0	0.995	1.5	5	5	2.5 - 6"-8 NPT	\$394.71	\$414.55

Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Unc Price	CTD Price
1/16NPTFTRML	1/4	0.245	0.437	2 1/2	3	1/16-27 NPTF	\$96.87	\$100.59
1/8NPTFTRML	5/16	0.310	0.437	2 1/2	4	1/8-27 NPTF	\$101.55	\$106.17
1/4NPTFTRML	3/8	0.370	0.625	3	4	1/4-18 NPTF	\$117.64	\$123.18
3/8NPTFTRML	3/8	0.370	0.625	3	4	3/8-18 NPTF	\$117.64	\$123.18
1/2NPTFTRML	1/2	0.495	0.875	3 1/2	4	1/2-14 NPTF	\$168.14	\$177.04
3/4NPTFTRML	1/2	0.495	0.875	3 1/2	4	3/4-14 NPTF	\$168.14	\$177.04
1NPTFTRML	3/4	0.620	1.125	4	5	1-11 1/2 NPTF	\$224.35	\$236.07
2.5NPTFTRML	1.0	0.995	1.5	5	5	2.5 - 6" -8 NPTF	\$394.71	\$414.55

If you find Thread Mills confusing, or need help programming your cutter - CALL US!

AITiN
Threadator Single Profile

Threadator Single Profile

– Variable Flute Single Profile Threadmills have several flutes with only one 60 degree thread form. AITiN Coated
To order UNCOATED add the letter "B" to the end of the part number.



Part #	Thread Range	Cut Dia	Neck Dia	LOC	# Flutes	Shank	OAL	Unc Price	Ctd Price
2-SPTRML	56 - 80	.064	.038	5/32	3	1/8	1-1/2	\$73.75	\$74.99
3-SPTRML	48 - 72	.072	.040	5/32	3	1/8	1-1/2	\$73.75	\$74.99
4-SPTRML	40 - 64	.080	.045	1/8	3	1/8	2	\$72.26	\$73.50
4L-SPTRML	40 - 64	.080	.045	1/4	3	1/8	2	\$75.16	\$76.41
6-SPTRML	32 - 64	.098	.050	1/4	4	1/8	2	\$72.26	\$73.50
6L-SPTRML	32 - 64	.098	.050	3/8	4	1/8	2	\$75.16	\$76.41
8-SPTRML	32 - 56	.120	.070	5/16	4	1/8	2	\$74.94	\$76.18
8L-SPTRML	32 - 56	.120	.070	1/2	4	1/8	2	\$82.55	\$83.79
10-SPTRML	24 - 56	.138	.075	3/8	4	3/16	2	\$78.14	\$79.71
10L-SPTRML	24 - 56	.138	.075	5/8	4	3/16	2	\$85.51	\$87.08
12L-SPTRML	24 - 56	.160	.095	5/8	4	3/16	2	\$147.99	\$83.79
1/4-SPTRML	18 - 56	.180	.115	1/2	4	3/16	2	\$81.20	\$82.78
1/4L-SPTRML	18 - 56	.180	.115	3/4	4	3/16	2	\$85.75	\$87.33
5/16-SPTRML	16 - 48	.240	.160	1/2	4	1/4	2-1/2	\$75.76	\$79.01
5/16L-SPTRML	16 - 48	.240	.160	3/4	4	1/4	2-1/2	\$80.54	\$83.79
3/8-SPTRML	14 - 40	.300	.218	3/4	4	3/8	2-1/2	\$98.05	\$102.90
3/8L-SPTRML	14 - 40	.300	.218	1	4	3/8	2-1/2	\$102.83	\$107.68
1/2-SPTRML	12 - 32	.388	.250	3/4	4	1/2	3	\$112.60	\$118.58
1/2L-SPTRML	12 - 32	.388	.250	1-1/4	4	1/2	3	\$117.62	\$123.60
3/4-SPTRML	10 - 32	.495	.340	1	6	1/2	3	\$117.25	\$123.24
3/4L-SPTRML	10 - 32	.495	.340	1-3/8	6	1/2	3	\$122.40	\$128.38

Technical Threadmill Data on page 31

Threadator BSPT/BSPP

Threadator BSPT/ BSPP

– British Standard Pipe Tapered/ British Standard Pipe Parallel, also known as a "Whitworth Threadform" AlTiN Coated



BSPP Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Ctd Price
1/16-28BSPTRML	1/4	0.240	0.570	2 1/2	3	1/16-28	\$130.58
1/8-28BSPTRML	1/4	0.240	0.570	2 1/2	3	1/8-28	\$130.58
1/4-19BSPTRML	7/16	0.430	0.737	3	4	1/4-19	\$136.99
3/8-19BSPTRML	7/16	0.430	0.737	3	4	3/8-19	\$136.99
1/2-14BSPTRML	5/8	0.620	1.150	3 1/2	5	1/2-14	\$222.59
3/4-14BSPTRML	5/8	0.620	1.150	3 1/2	5	3/4-14	\$222.59
1-11BSPTRML	3/4	0.745	1.365	4	5	1-11	\$287.20
2-11BSPTRML	3/4	0.745	1.365	4	5	2-11	\$287.20

BSPT Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Price
1/16-28BSPTRML	1/4	0.240	0.393	2 1/2	3	1/16-28	\$130.58
1/8-28BSPTRML	1/4	0.240	0.393	2 1/2	3	1/8-28	\$130.58
1/4-19BSPTRML	7/16	0.430	0.580	3	4	1/4-19	\$136.99
3/8-19BSPTRML	7/16	0.430	0.580	3	4	3/8-19	\$136.99
1/2-14BSPTRML	5/8	0.620	0.787	3 1/2	5	1/2-14	\$222.59
3/4-14BSPTRML	5/8	0.620	0.787	3 1/2	5	3/4-14	\$222.59
1-11BSPTRML	3/4	0.745	1.546	4	5	1-11	\$287.20
2-11BSPTRML	3/4	0.745	1.546	4	5	2-11	\$287.20

Technical Threadmill Data on page 31

Threadator T-REX & CoolRex

Threadator T-Rex is a Variable Helix/Variable Index threadmill.

- Increases productivity, and reduces harmonics in tough materials,



TREXTRML

Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Ctd Price
10-32TREXTRML	3/16	.120	.312	2	3	10-32	\$92.81
1/4-20TREXTRML	3/16	.180	.500	2	3	1/4-20	\$99.29
1/4-28TREXTRML	3/16	.180	.500	2	3	1/4-28	\$99.29
5/16-18TREXTRML	1/4	.235	.625	2 1/2	3	5/16-18	\$114.46
5/16-24TREXTRML	1/4	.235	.625	2 1/2	3	5/16-24	\$114.46
3/8-16TREXTRML	5/16	.290	.750	3	4	3/8-16	\$137.81
3/8-24TREXTRML	5/16	.290	.750	3	4	3/8-24	\$137.81
7/16-14TREXTRML	3/8	.340	.875	3	4	7/16-14	\$138.37
7/16-20TREXTRML	3/8	.340	.875	3	4	7/16-20	\$152.14
1/2-13TREXTRML	3/8	.350	.875	3	4	1/2-13	\$152.14
3/4-16TREXTRML	1/2	.495	1.25	3 1/2	4	3/4-16	\$182.21

COOLREX

- Variable Helix/Variable Index

- Designed for maximum chip evacuation in blind holes.

- Create better quality and stronger threads. AlTiN Coated



Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Ctd Price
10-32COOLREX	3/16	.120	.312	2.375	3	10-32	\$95.33
1/4-20COOLREX	3/16	.180	.500	2.375	3	1/4-20	\$101.81
1/4-28COOLREX	3/16	.180	.500	2.375	3	1/4-28	\$101.81
5/16-18COOLREX	1/4	.235	.625	2.375	3	5/16-18	\$119.44
5/16-24COOLREX	1/4	.235	.625	2.375	3	5/16-24	\$119.44
3/8-16COOLREX	5/16	.290	.750	3	4	3/8-16	\$142.06
3/8-24COOLREX	5/16	.290	.750	3	4	3/8-24	\$142.06
7/16-14COOLREX	3/8	.340	.875	3	4	7/16-14	\$142.06
7/16-20COOLREX	3/8	.340	.875	3	4	7/16-20	\$163.69
1/2-13COOLREX	3/8	.350	.875	3	4	1/2-13	\$163.69
3/4-16COOLREX	1/2	.495	1.25	3	4	3/4-16	\$192.85

Series:



HardMill Threadmill nACo Coated

This breakthrough design allows threadmilling in materials hardened up to 62 RC. The variable flute geometry, high hardness, and high heat resistance coating will allow you to create threads where taps cannot traditionally cut.

Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Ctd Price
10-24HRDTRML	3/16	.120	.312	2	3	10-24	\$105.64
10-32HRDTRML	3/16	.120	.312	2	3	10-32	\$105.64
1/4-20HRDTRML	3/16	.180	.500	2 1/2	3	1/4-20	\$113.84
1/4-28HRDTRML	3/16	.180	.500	2 1/2	3	1/4-28	\$113.84
5/16-18HRDTRML	1/4	.235	.625	2 1/2	3	5/16-18	\$131.16
5/16-24HRDTRML	1/4	.235	.625	2 1/2	3	5/16-24	\$131.16
3/8-16HRDTRML	5/16	.290	.750	3	4	3/8-16	\$157.38
3/8-24HRDTRML	5/16	.290	.750	3	4	3/8-24	\$157.38
7/16-14HRDTRML	3/8	.340	.875	3	4	7/16-14	\$179.12
7/16-20HRDTRML	3/8	.340	.875	3	4	7/16-20	\$179.12
1/2-13HRDTRML	3/8	.350	.875	3 1/2	4	1/2-13	\$183.25
5/8-11HRDTRML	1/2	.470	1.25	3 1/2	4	5/8-11	\$208.32
3/4-16HRDTRML	1/2	.495	1.25	3 1/2	4	3/4-16	\$210.38
3/4-10HRDTRLML	1/2	.495	1.25	3 1/2	4	3/4-16	\$210.38

HARDMILL THREADMILLING RECOMMENDATIONS

- Hardmill Threadmills should be run with air blast not coolant
- Evacuate chips properly while milling. Recutting chips will damage cutter.
- Hardmill Threadmilling requires several small radial cuts or "step overs"
We recommend 7 passes for fine threads and 9 passes for coarse threads.
- Always cut Feedrate by 50% when ramping in to the cut
- Thread interpolation should spiral from bottom of thread in upward direction

HOW TO CALCULATE HARDMILL THREADMILL RADIAL PASSES

EXAMPLE THREAD = 1/4-28

MAJOR THREAD DIAMETER YOU ARE CUTTING = .250

MINOR HOLE DIAMETER = .213

.250 - .213 = .037 TOTAL STOCK BEING REMOVED

.037 / 2 = .0185 STOCK PER SIDE BEING REMOVED

MULTIPLY .0185 x RECOMMENDED PERCENTAGES FOR APPROXIMATE RADIAL DEPTH OF CUT. ROUND NUMBERS WHERE NECESSARY.

(RADIAL DEPTH OF CUT IN X OR Y)

1ST PASS = .0185 X 23% = .0045 (add any leftover to first pass)

2ND PASS = .0185 X 23% = .0045

3RD PASS = .0185 X 16% = .003

4TH PASS = .0185 X 16% = .003

5TH PASS = .0185 X 11% = .002

6TH PASS = .0185 X 11% = .002

7TH PASS = FREE PASS

Material	Tool Steel (-55HRC) AISI H13 ETC		Hardened Steel (55-60HRC) AISI D2 ETC		Hardened Steel (60-65HRC) AISI D2 ETC	
	DIA	SFM	CHIP LOAD PER TOOTH	SFM	CHIP LOAD PER TOOTH	SFM
0.150	600/700	.0006/.002	350/400	.0005-.0015	175/225	.0005-.001
0.180						
0.235						
0.285						
0.305						
0.335						
0.350						
0.495	.001-.0025	.001-.002	.0008/.0018			
	.0015-.003	.0012-.0025	.001/.002			

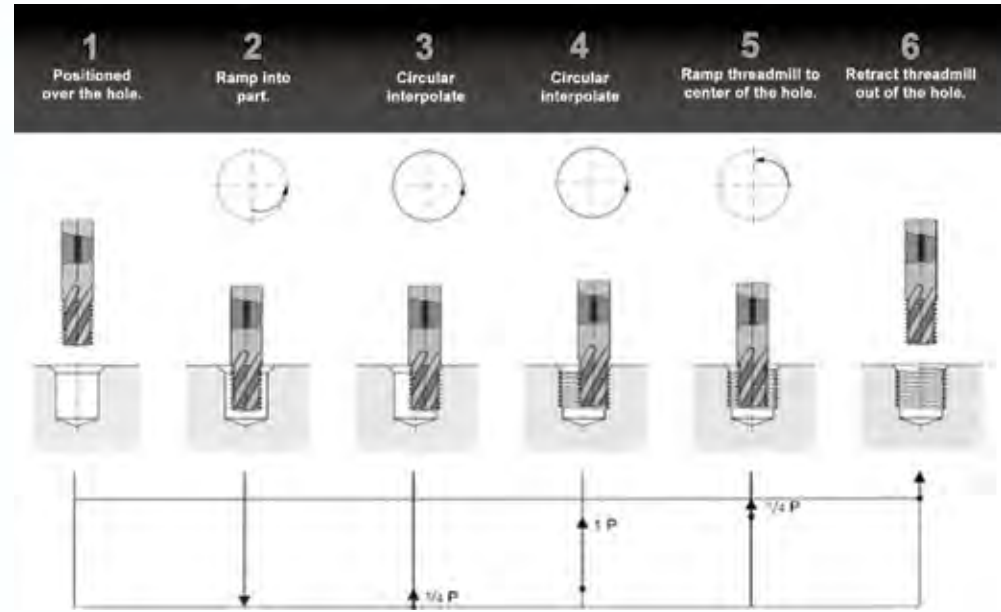
Threadator NPS/NPSF

- We now stock National Pipe Straight standard and dryseal. AITiN Coated
To order UNCOATED add the letter "B" to the end of the part number.



Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Unc Price	Ctd Price
1/8NPSTRML	1/4	0.240	0.570	2 1/2	3	1/8-27 NPS	\$112.48	\$116.20
1/4NPSTRML	7/16	0.430	0.737	3	4	1/4-18 NPS	\$147.10	\$153.30
3/8NPSTRML	7/16	0.430	0.737	3	4	3/8-18 NPS	\$147.10	\$153.30
1/2NPSTRML	5/8	0.620	1.150	3 1/2	5	1/2-14 NPS	\$217.58	\$227.50
3/4NPSTRML	5/8	0.620	1.150	3 1/2	5	3/4-14 NPS	\$217.58	\$227.50
1NPSTRML	3/4	0.745	1.365	4	5	1-2" - 11 1/2 NPS	\$254.48	\$266.20
2.5NPSTRML	1.0	0.995	1.5	5	5	2.5"-6" - 8 NPS	\$394.71	\$414.55

Part #	Shank	Cut Dia	LOC	OAL	# FL	Thread	Unc Price	Ctd Price
1/8NPSFTRML	1/4	0.240	0.570	2 1/2	3	1/8-27 NPSF	\$112.48	\$116.20
1/4NPSFTRML	7/16	0.430	0.737	3	4	1/4-18 NPSF	\$147.10	\$153.30
3/8NPSFTRML	7/16	0.430	0.737	3	4	3/8-18 NPSF	\$147.10	\$153.30
1/2NPSFTRML	5/8	0.620	1.150	3 1/2	5	1/2-14 NPSF	\$217.58	\$227.50
3/4NPSFTRML	5/8	0.620	1.150	3 1/2	5	3/4-14 NPSF	\$217.58	\$227.50
1NPSFTRML	3/4	0.745	1.365	4	5	1-2" - 11 1/2 NPSF	\$254.48	\$266.20
2.5NPSFTRML	1.0	0.995	1.5	5	5	2.5 - 6" - 8 NPSF	\$394.71	\$414.55



Standard Threadmill Feedrate Calculator (inches/tooth)

MATERIAL	SFM	Tool Cutting Diameter Inches P/Tooth						
		1/8	3/16	1/4	5/16	3/8	1/2	5/8
Aluminum	800-1400	.0005-.001	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0055	.005-.007
Magnesium	800-1400	.0005-.001	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0055	.005-.007
Brass	600-800	.0005-.001	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0045	.005-.006
Bronze	500-600	.0005-.001	.001-.0015	.0015-.0025	.002-.003	.003-.0045	.0035-.0045	.005-.006
Hard Bronze	200-300	.0004-.0008	.0007-.0012	.001-.002	.001-.002	.0015-.0025	.002-.003	.003-.004
Low Alloy Steels	350-500	.0005-.001	.001-.0015	.0015-.0025	.002-.003	.0025-.0035	.003-.004	.004-.005
High Alloy	250-400	.0003-.0006	.0005-.001	.0008-.0015	.001-.002	.0015-.0025	.002-.003	.003-.004
Stainless	150-250	.0004-.0008	.0006-.001	.001-.0015	.0015-.002	.0015-.0030	.002-.0035	.003-.004
Cast Iron - Soft	250-350	.0004-.0008	.0007-.0013	.0007-.0013	.0015-.002	.002-.003	.002-.004	.003-.005
Cast Iron - Hard	200-300	.0003-.0006	.0005-.001	.0008-.0015	.001-.002	.0015-.0025	.002-.003	.003-.004
Titanium	80-150	.0003-.0006	.0005-.001	.0008-.0015	.001-.002	.0015-.0025	.0015-.0025	.0025-.0035

WE RECOMMEND REDUCING THE RAMP-IN FEED RATE BY 50% OF THE INTERPOLATION FEED RATE.

AlTiN
Carbide Roughers

Series:

170RF - STANDARD - 4 FL



Part Number	Flute Diameter	Tooth Pitch	Flute Length	Overall Length	Number of Flutes	Tool Price
170RF31	3/16	.040	.625	2.0	3	\$19.38
170RF14	1/4	.040	.750	2.5	4	\$24.44
170RF51	5/16	.040	.875	2.5	4	\$32.61
170RF38	3/8	.040	.875	2.5	4	\$40.50
170RF12	1/2	.060	1.0	3.0	4	\$56.18
170RF58	5/8	.060	1.25	3.5	4	\$108.77
170RF34	3/4	.060	1.5	4.0	4	\$145.72
170RF10	1	.060	1.5	4.0	4	\$259.96

Series:

170RF - LONG - 4 FL



Part Number	Flute Diameter	Tooth Pitch	Flute Length	Overall Length	Number of Flutes	Tool Price
170RF31L	3/16	.040	1.0	2.5	3	\$25.31
170RF14L	1/4	.040	1.5	4	4	\$38.57
170RF51L	5/16	.040	1.5	4	4	\$53.85
170RF38L	3/8	.040	1.75	4	4	\$67.42
170RF12L	1/2	.060	2	4	4	\$83.42
170RF58L	5/8	.060	2.5	5	4	\$160.35
170RF34L	3/4	.060	2.5	5	4	\$236.89
170RF10L	1	.060	2.5	5	4	\$345.71

Weldon flats available upon request.

AlTiN
Carbide Roughers

Series: Variable Helix

170RFHD - VARIABLE - 4 FL



Part Number	Flute Diameter	Tooth Pitch	Flute Length	Overall Length	Number of Flutes	Tool Price
170RF31HD	3/16	.040	.625	2.0	3	\$23.98
170RF14HD	1/4	.040	.750	2.5	4	\$32.60
170RF51HD	5/16	.040	.875	2.5	4	\$42.05
170RF38HD	3/8	.040	.875	2.5	4	\$52.75
170RF12HD	1/2	.060	1.0	3.0	4	\$70.21
170RF58HD	5/8	.060	1.25	3.5	4	\$132.41
170RF34HD	3/4	.060	1.5	4.0	4	\$173.56
170RF10HD	1	.060	1.5	4.0	4	\$307.11

Series:

170RFHD - STUB VARIABLE - 4 FL



Part Number	Flute Diameter	Tooth Pitch	Flute Length	Overall Length	Number of Flutes	Tool Price
170RF31HDS	3/16	.040	.312	2.0	3	\$20.63
170RF14HDS	1/4	.040	.375	2.0	4	\$29.46
170RF51HDS	5/16	.040	.500	2.0	4	\$36.06
170RF38HDS	3/8	.040	.560	2.0	4	\$45.19
170RF12HDS	1/2	.060	.625	2.5	4	\$62.06

Starting Recommended Speeds and Feeds

Materials	Carbon Steel	Tool Steel	Titanium	Stainless Steel	Nickel Based Alloy	Cobalt Alloy
Diameter	225-550 SFM	210-450 SFM	125-215 SFM	225-475 SFM	55-120 SFM	40-75 SFM
3/16	.0007-.002	.0005-.0015	.0007-.0013	.0008-.0015	.0005-.0012	.0005-.0012
1/4	.0007-.002	.0005-.0015	.0007-.0013	.0008-.0015	.0005-.0012	.0005-.0012
5/16	.001-.0025	.0007-.002	.0009-.0015	.001-.002	.0007-.0014	.0007-.0014
3/8	.0015-.003	.001-.0025	.0009-.0015	.001-.002	.0009-.0016	.0009-.0016
1/2	.0015-.0035	.001-.003	.0010-.0018	.0012-.0025	.0009-.0018	.0009-.0018
5/8	.002-.004	.0015-.0035	.0012-.0022	.002-.0037	.0012-.0023	.0012-.0023
3/4	.002-.004	.0015-.004	.0015-.0025	.002-.0037	.0015-.0025	.0015-.0025
1	.002-.005	.002-.0045	.0018-.0027	.0025-.0042	.0018-.0027	.0018-.0018

NOTE:

- These are approximate numbers, a good starting point.
- Coolant application is an important part of using a rougher.
- Tools perform best when balanced.

Tolerance all sizes: Diameter- +.000/- .002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Specials

We make custom tools to print!

Porting Tools

Coolant Thru Drills

Step Drills

Special Thread tools

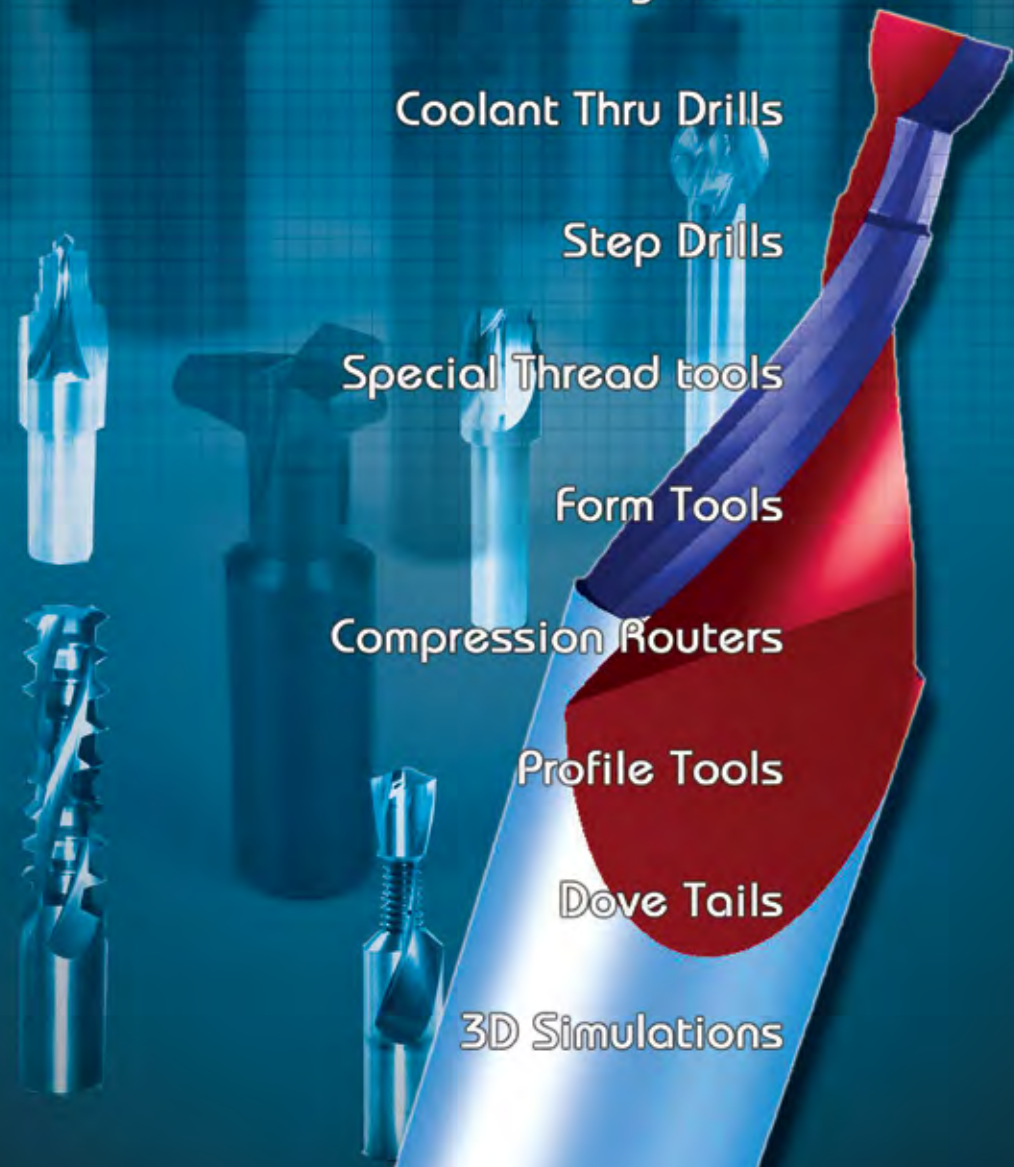
Form Tools

Compression Routers

Profile Tools

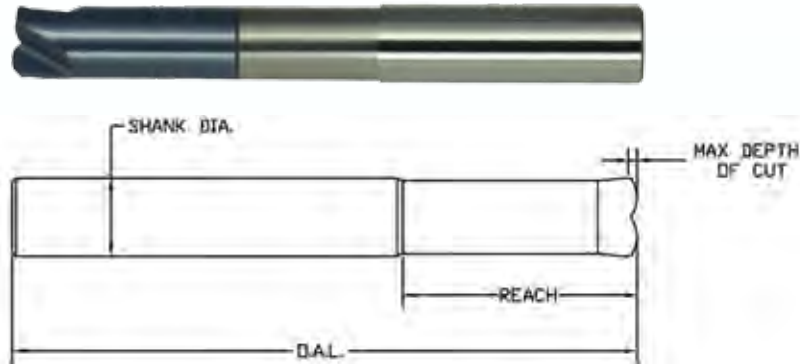
Dove Tails

3D Simulations



Series: FMXML

The high performance Feed-Max Mill achieves high metal removal rates and optimizes milling operations in slotting, pocketing and contouring projects. This tool will increase efficiency as a pre-finish tool in materials ranging from mild to hardened steels, including stainless series. AITiN



Part #	Cutting	Reach	Shank	OAL	# FL	Price
FMXML018A	.120	5/16	1/8	1 1/2	2	\$54.63
FMXML018B	.120	5/8	1/8	2	2	\$64.51
FMXML316A	.177	1/2	3/16	2 1/2	3	\$67.62
FMXML316B	.177	1	3/16	2 1/2	3	\$73.61
FMXML014A	.240	5/8	1/4	2 1/2	3	\$85.58
FMXML014B	.240	1	1/4	3	3	\$95.80
FMXML014C	.240	1 1/2	1/4	3	3	\$101.79
FMXML516A	.300	1	5/16	2 1/2	3	\$105.40
FMXML516B	.300	2	5/16	4	3	\$127.17
FMXML038A	.360	1	3/8	2 1/2	3	\$135.34
FMXML038B	.360	1 1/2	3/8	3	3	\$148.79
FMXML038C	.360	2	3/8	4	3	\$179.94
FMXML012A	.485	1 1/2	1/2	4	3	\$224.41
FMXML012B	.485	2 3/8	1/2	4	3	\$240.38
FMXML012C	.485	3 1/8	1/2	5	3	\$271.00

Series: FMXCT

The coolant thru version of the Feed-Max Mill accelerates chip removal, ensures that the tool remains cool and eliminates recutting of the chip.



Part #	Cutting	Shank	Reach	OAL	# FL	Price
FMXCT316A	.177	3/16	1/2	2 1/2	3	\$71.45
FMXCT316B	.177	3/16	1	2 1/2	3	\$77.44
FMXCT014A	.240	1/4	5/8	2 1/2	3	\$96.21
FMXCT014B	.240	1/4	1	3	3	\$109.37
FMXCT014C	.240	1/4	1 1/2	3	3	\$117.45
FMXCT516A	.300	5/16	1	2 1/2	3	\$114.33
FMXCT516B	.300	5/16	2	4	3	\$139.75
FMXCT038A	.360	3/8	1	2 1/2	3	\$147.94
FMXCT038B	.360	3/8	1 1/2	3	3	\$166.06
FMXCT038C	.360	3/8	2	4	3	\$200.90
FMXCT012A	.485	1/2	1 1/2	4	3	\$260.41
FMXCT012B	.485	1/2	2 3/8	4	3	\$267.00
FMXCT012C	.485	1/2	3 1/8	5	3	\$297.21

Feed-Max Feedrate Calculator (inches/tooth)

MATERIAL	Steel	Tool Steel	Soft Cast Iron	Hard Cast Iron	Stainless Steel	Super Alloy	Titanium Alloy	
SFM	800/1100	450/650	250/450	450/650	300/450	50/175	300/400	
Slotting feed per tooth	0.030xD	0.027xD	.024xD	0.024xD	0.018xD	0.018xD	0.021xD	
Side milling feed p/tooth	0.055xD	0.045xD	0.040xD	0.040xD	0.024xD	0.024xD	0.035xD	
Side milling depth of cut - Z	1 x DOC	1 x DOC	0.8 x DOC	1 x DOC	1 x DOC	0.5 x DOC	0.5 x DOC	
Side milling step over	0.5 x D	0.5 x D	0.5 x D	0.5 x D	0.5 x D	0.5 x D	0.5 x D	
SFM	400/800	350/400	150/325	350/450	200/350	50/125	200/300	
Plunge milling feed p/tooth	0.010xD	0.010xD	0.007xD	0.007xD	0.006xD	0.006xD	0.007xD	
Linear Depth of Cut	0.3 x D	0.3 x D	0.3 x D	0.3 x D	0.3 x D	0.3 x D	0.3 x D	
DEPTH OF CUT IN "Z"								
D=MAJOR DIAMETER OF TOOL					MAJOR DIA.	DOC	MAJOR DIA.	DOC
RAMPING ANGLE: 1-1.5°					.120	0.006	.300	0.02
REDUCE DOC -20% AND FEED PER TOOTH - 15% FOR B-Length					.177	0.01	.360	0.02
REDUCE DOC -40% AND FEED PER TOOTH - 30% FOR C-Length					.240	0.015	.485	0.025

Carbide Spot Drills

Double End Carbide Spot Drills

Series:

SD139



Part # 2 Flute	Point Angle	Shank Diameter	Length of Cut	Overall Length	Tool Price
SD139018	90°	1/8"	1/4"	2	\$15.67
SD139316	90°	3/16"	3/8"	2	\$18.91
SD139014	90°	1/4"	3/8"	3	\$24.66
SD139038	90°	3/8"	1/2"	4	\$43.62
SD139012	90°	1/2"	3/4"	4	\$69.82
SD139058	90°	5/8"	1"	4	\$123.43
SD139034	90°	3/4"	1"	4	\$164.10

SD120



Part # 2 Flute	Point Angle	Shank Diameter	Length of Cut	Overall Length	Tool Price
SD120018	120°	1/8"	1/4"	2	\$15.67
SD120316	120°	3/16"	3/8"	2	\$18.91
SD120014	120°	1/4"	3/8"	3	\$24.66
SD120038	120°	3/8"	1/2"	4	\$43.62
SD120012	120°	1/2"	3/4"	4	\$69.82
SD120058	120°	5/8"	1"	4	\$123.43
SD120034	120°	3/4"	1"	4	\$164.10

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

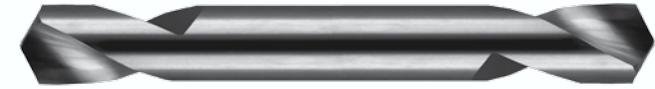
Series:

SDE139



Part # 2 Flute	Point Angle	Shank Diameter	Length of Cut	Overall Length	Tool Price
SDE139018	90°	1/8"	1/4"	2	\$23.67
SDE139316	90°	3/16"	3/8"	2	\$28.56
SDE139014	90°	1/4"	3/8"	3	\$33.95
SDE139038	90°	3/8"	1/2"	4	\$51.93
SDE139012	90°	1/2"	3/4"	4	\$89.21
SDE139058	90°	5/8"	1"	4	\$155.78
SDE139034	90°	3/4"	1"	4	\$211.94

SDE120



Part # 2 Flute	Point Angle	Shank Diameter	Length of Cut	Overall Length	Tool Price
SDE120018	120°	1/8"	1/4"	2	\$23.67
SDE120316	120°	3/16"	3/8"	2	\$28.56
SDE120014	120°	1/4"	3/8"	3	\$33.95
SDE120038	120°	3/8"	1/2"	4	\$51.93
SDE120012	120°	1/2"	3/4"	4	\$89.21
SDE120058	120°	5/8"	1"	4	\$155.78
SDE120034	120°	3/4"	1"	4	\$211.94

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

60° Carbide Drillmills

AlTiN

90° & 120° Carbide Drillmills

AlTiN

18DRLML

19DRLML



Part # 2FL	Part # 4FL	Flute Dia.	Point Angle	Flute Length	Overall Length	Unc Price	Ctd Price
18DRLML18X	19DRLML18X	1/8	60°	.500	1.5	\$12.14	\$13.62
18DRLML31X	19DRLML31X	3/16	60°	.625	2.0	\$16.32	\$18.21
18DRLML14X	19DRLML14X	1/4	60°	.750	2.5	\$21.08	\$24.98
18DRLML51X	19DRLML51X	5/16	60°	.875	2.5	\$27.68	\$32.53
18DRLML38X	19DRLML38X	3/8	60°	1.0	2.5	\$33.83	\$39.64
18DRLML12X	19DRLML12X	1/2	60°	1.0	3.0	\$55.00	\$62.17
18DRLML58X	19DRLML58X	5/8	60°	1.25	3.5	\$90.76	\$101.17
18DRLML34X	19DRLML34X	3/4	60°	1.5	4.0	\$124.53	\$136.84

To order UNCOATED remove the X from the end of the part number

Multi purpose tool for chamfering parts. Spot, drill, mill and chamfer, four tools in one! Not recommended for drilling steel.

What if I need a special angle on my drillmill?

Simply send us a sketch of what you are looking for and we can make it.

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

15DRLML

17DRLML



Part # 2FL	Part # 4FL	Flute Dia.	Point Angle	Flute Length	Overall Length	Unc Price	Ctd Price
15DRLML18X	17DRLML18X	1/8	90°	.500	1.5	\$12.14	\$13.62
15DRLML31X	17DRLML31X	3/16	90°	.625	2.0	\$16.32	\$18.21
15DRLML14X	17DRLML14X	1/4	90°	.750	2.5	\$21.08	\$24.98
15DRLML51X	17DRLML51X	5/16	90°	.875	2.5	\$27.68	\$32.53
15DRLML38X	17DRLML38X	3/8	90°	1.0	2.5	\$33.83	\$39.64
15DRLML12X	17DRLML12X	1/2	90°	1.0	3.0	\$55.00	\$62.17
15DRLML58X	17DRLML58X	5/8	90°	1.25	3.5	\$90.76	\$101.17
15DRLML34X	17DRLML34X	3/4	90°	1.5	4.0	\$124.53	\$136.84

To order UNCOATED remove the X from the end of the part number

11DRLML

13DRLML



Part # 2FL	Part # 4FL	Flute Dia.	Point Angle	Flute Length	Overall Length	Unc Price	Ctd Price
11DRLML18X	13DRLML18X	1/8	120°	.500	1.5	\$12.14	\$13.62
11DRLML31X	13DRLML31X	3/16	120°	.625	2.0	\$16.32	\$18.21
11DRLML14X	13DRLML14X	1/4	120°	.750	2.5	\$21.08	\$24.98
11DRLML51X	13DRLML51X	5/16	120°	.875	2.5	\$27.68	\$32.53
11DRLML38X	13DRLML38X	3/8	120°	1.0	2.5	\$33.83	\$39.64
11DRLML12X	13DRLML12X	1/2	120°	1.0	3.0	\$55.00	\$62.17
11DRLML58X	13DRLML58X	5/8	120°	1.25	3.5	\$90.76	\$101.17
11DRLML34X	13DRLML34X	3/4	120°	1.5	4.0	\$124.53	\$136.84

To order UNCOATED remove the X from the end of the part number

RadPac - External RadiuVs Cutters



RadPAC - A versatile set of solid carbide corner rounding tools, packaged for convenience and affordability.

10% Savings!

\$333.64

PART #	SIZE	SHANK DIAMETER	PILOT DIAMETER	TOOL RADIUS	OVERALL LENGTH	NUMBER OF FLUTES	REORDER PRICE
1-32RPEM	1/32"	1/8	0.046	0.031	1-1/2	2	\$26.86
1-16RPEM	1/16"	3/16	0.046	0.062	2	2	\$35.98
3-32RPEM	3/32"	1/4	0.0625	0.093	2	3	\$45.98
1-8RPEM	1/8"	3/8	0.093	0.125	2 1/2	3	\$61.27
3-16RPEM	3/16"	1/2	0.125	0.187	2 1/2	3	\$81.73
1-4RPEM	1/4"	5/8	0.125	0.250	3 1/2	4	\$118.89



ThreadPAC - Produce 14 threads with 6 threadmills! Same tool produces left and right hand threads, internal and external threads! AlTiN Coated

10% Savings!

\$474.11

SIZE	SHANK DIAMETER	CUTTING DIAMETER	THREAD LENGTH	OVERALL LENGTH	NUMBER OF FLUTES	PART #
6-32	1/8	0.115	0.218	2	3	6-32TRML
10-24	3/16	0.120	0.312	2	3	10-24TRML
1/4-20	3/16	0.180	0.500	2 1/2	3	1/4-20TRML
5/16-18	1/4	0.240	0.625	2 1/2	3	5/16-18TRML
3/8-16	5/16	0.290	0.750	3	4	3/8-16TRML
1/2-13	3/8	0.350	0.875	3 1/2	4	1/2-13TRML

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Spiral Fluted - Chamfer Cutters

60° Included Angle



PART #	SHANK DIAMETER	TIP DIAMETER	INCL ANGLE	OVERALL LENGTH	NUMBER OF FLUTES	TOOL PRICE
18CHAM30	1/8	To Point	60°	1-1/2	4-STR*	\$18.88
14CHAM30	1/4	0.046	60°	2	4-HLX	\$34.01
38CHAM30	3/8	0.062	60°	2	4-HLX	\$49.30
12CHAM30	1/2	0.093	60°	2 1/2	4-HLX	\$73.75
58CHAM30	5/8	.125	60°	3 1/2	4-HLX	\$114.90

82° Included Angle



PART #	SHANK DIAMETER	TIP DIAMETER	INCL ANGLE	OVERALL LENGTH	NUMBER OF FLUTES	TOOL PRICE
18CHAM41	1/8	To Point	82°	1-1/2	4-STR*	\$18.88
14CHAM41	1/4	0.046	82°	2	4-HLX	\$34.01
38CHAM41	3/8	0.062	82°	2	4-HLX	\$49.30
12CHAM41	1/2	0.093	82°	2 1/2	4-HLX	\$73.75
58CHAM41	5/8	.125	82°	3 1/2	4-HLX	\$114.90

90° Included Angle



PART #	SHANK DIAMETER	TIP DIAMETER	INCL ANGLE	OVERALL LENGTH	NUMBER OF FLUTES	TOOL PRICE
18CHAM45	1/8	To Point	90°	1-1/2	4-STR*	\$18.88
14CHAM45	1/4	0.046	90°	2	4-HLX	\$34.01
38CHAM45	3/8	0.062	90°	2	4-HLX	\$49.30
12CHAM45	1/2	0.093	90°	2 1/2	4-HLX	\$73.75
58CHAM45	5/8	.125	90°	3 1/2	4-HLX	\$114.90

* Straight Fluted Tool

Stub Endmills

Series:

110



120



Part # 2 FL	Part # 4 FL	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
1100332	1200332	3/32	3/16	1/8	1 1/2	\$7.54
1100018	1200018	1/8	1/4	1/8	1 1/2	\$7.54
1100532	1200532	5/32	5/16	3/16	2	\$10.38
1100316	1200316	3/16	3/8	3/16	2	\$10.38
1100014	1200014	1/4	1/2	1/4	2	\$13.61
1100516	1200516	5/16	1/2	5/16	2	\$20.02
1100038	1200038	3/8	5/8	3/8	2	\$22.07
1100716	1200716	7/16	5/8	7/16	2 1/2	\$28.48
1100012	1200012	1/2	5/8	1/2	2 1/2	\$36.50
1100058	1200058	5/8	3/4	5/8	3	\$79.21
1100034	1200034	3/4	1	3/4	4	\$125.20

Carbide Single-End Stub Length End Mills with Shorter flute length for increased rigidity, 30 degree helix, center cutting.

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Stub Endmills-Coated

AlTiN

Series:

110X AlTiN



120X AlTiN



Part # 2 FL	Part # 4 FL	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
1100332X	1200332X	3/32	3/16	1/8	1 1/2	\$9.86
1100018X	1200018X	1/8	1/4	1/8	1 1/2	\$9.86
1100532X	1200532X	5/32	5/16	3/16	2	\$12.71
1100316X	1200316X	3/16	3/8	3/16	2	\$12.71
1100014X	1200014X	1/4	1/2	1/4	2	\$16.11
1100516X	1200516X	5/16	1/2	5/16	2	\$23.51
1100038X	1200038X	3/8	5/8	3/8	2	\$26.62
1100716X	1200716X	7/16	5/8	7/16	2 1/2	\$35.63
1100012X	1200012X	1/2	5/8	1/2	2 1/2	\$44.23
1100058X	1200058X	5/8	3/4	5/8	3	\$88.18
1100034X	1200034X	3/4	1	3/4	4	\$134.58

What is the latest that I can order STANDARD TOOLS and have them ship?

Standard orders will ship as late as 4:00pm E.S.T.

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Stub Ballmills

Series:

130



140



Part # 2 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
1300332	1400332	3/32	3/16	1/8	1 1/2	\$9.87
1300018	1400018	1/8	1/4	1/8	1 1/2	\$9.87
1300532	1400532	5/32	5/16	3/16	2	\$12.69
1300316	1400316	3/16	3/8	3/16	2	\$12.69
1300014	1400014	1/4	1/2	1/4	2	\$16.79
1300516	1400516	5/16	1/2	5/16	2	\$23.51
1300038	1400038	3/8	5/8	3/8	2	\$26.58
1300716	1400716	7/16	5/8	7/16	2 1/2	\$34.12
1300012	1400012	1/2	5/8	1/2	2 1/2	\$43.61
1300058	1400058	5/8	3/4	5/8	3	\$87.68
1300034	1400034	3/4	1	3/4	4	\$144.40

Ball-End Carbide Stub Length End Mills with shorter flute length for increased rigidity, 30 degree helix, center cutting.

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

AlTiN

Stub Ballmills-Coated

Series:

130X AlTiN



140X AlTiN



Part # 2 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
1300332X	1400332X	3/32	3/16	1/8	1 1/2	\$12.19
1300018X	1400018X	1/8	1/4	1/8	1 1/2	\$12.19
1300532X	1400532X	5/32	5/16	3/16	2	\$15.02
1300316X	1400316X	3/16	3/8	3/16	2	\$15.02
1300014X	1400014X	1/4	1/2	1/4	2	\$19.29
1300516X	1400516X	5/16	1/2	5/16	2	\$27.01
1300038X	1400038X	3/8	5/8	3/8	2	\$31.13
1300716X	1400716X	7/16	5/8	7/16	2 1/2	\$41.27
1300012X	1400012X	1/2	5/8	1/2	2 1/2	\$51.33
1300058X	1400058X	5/8	3/4	5/8	3	\$96.64
1300034X	1400034X	3/4	1	3/4	4	\$153.78

Need special tools that are guaranteed to work?

We have a full machine shop and can easily test run special tools.

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Stub Double End Endmill

AlTiN

Stub Double End - Coated

Series:

112



122



Part # 2 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
1120332	1220332	3/32	3/16	1/8	1 1/2	\$12.42
1120018	1220018	1/8	1/4	1/8	1 1/2	\$12.42
1120532	1220532	5/32	5/16	3/16	2	\$15.23
1120316	1220316	3/16	3/8	3/16	2	\$15.23
1120014	1220014	1/4	1/2	1/4	2 1/2	\$18.80
1120516	1220516	5/16	1/2	5/16	2 1/2	\$24.43
1120038	1220038	3/8	1/2	3/8	2 1/2	\$28.30
1120716	1220716	7/16	9/16	7/16	3	\$36.60
1120012	1220012	1/2	5/8	1/2	3	\$49.06

Series:

112X AlTiN



122X AlTiN



Part # 2 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
1120332X	1220332X	3/32	3/16	1/8	1 1/2	\$15.89
1120018X	1220018X	1/8	1/4	1/8	1 1/2	\$15.89
1120532X	1220532X	5/32	5/16	3/16	2	\$18.73
1120316X	1220316X	3/16	3/8	3/16	2	\$18.73
1120014X	1220014X	1/4	1/2	1/4	2 1/2	\$24.31
1120516X	1220516X	5/16	1/2	5/16	2 1/2	\$32.84
1120038X	1220038X	3/8	1/2	3/8	2 1/2	\$37.61
1120716X	1220716X	7/16	9/16	7/16	3	\$47.32
1120012X	1220012X	1/2	5/8	1/2	3	\$60.65

Due to fluctuating carbide costs, prices subject to change.

The double end version of our stub length series end mills offer the same tool geometry in an economical offering. These tools are ideal for slotting, keying, and general purpose milling.

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Standard Endmill

Standard Endmill - Coated

Series:

150



160



170



Series:

150X AlTiN



160X AlTiN



170X AlTiN



Part # 2 FLT	Part # 3 FLT	Part # 4 FLT	Tool Diam	Flute Length	Shank Diameter	Overall Length	Unc Price
1500332	1600332	1700332	3/32	3/8	1/8	1 1/2	\$7.51
1500018	1600018	1700018	1/8	1/2	1/8	1 1/2	\$7.61
1500532	1600532	1700532	5/32	9/16	3/16	2	\$11.32
1500316	1600316	1700316	3/16	5/8	3/16	2	\$10.63
1500014	1600014	1700014	1/4	3/4	1/4	2 1/2	\$14.00
1500516	1600516	1700516	5/16	7/8	5/16	2 1/2	\$18.50
1500038	1600038	1700038	3/8	1	3/8	2 1/2	\$22.97
1500716	1600716	1700716	7/16	1	7/16	2 1/2	\$33.75
1500012	1600012	1700012	1/2	1	1/2	3	\$41.74
1500916	1600916	1700916	9/16	1 1/4	9/16	3 1/2	\$76.62
1500058	1600058	1700058	5/8	1 1/4	5/8	3 1/2	\$79.85
1500034	1600034	1700034	3/4	1 1/2	3/4	4	\$115.23
1500078	1600078	1700078	7/8	1 1/2	7/8	4	\$207.67
1500001	1600001	1700001	1	1 1/2	1	4	\$212.92

Part # 2 FLT	Part # 3 FLT	Part # 4 FLT	Tool Diam	Flute Length	Shank Diameter	Overall Length	Coated Price
1500332X	1600332X	1700332X	3/32	3/8	1/8	1 1/2	\$9.82
1500018X	1600018X	1700018X	1/8	1/2	1/8	1 1/2	\$9.92
1500532X	1600532X	1700532X	5/32	9/16	3/16	2	\$13.66
1500316X	1600316X	1700316X	3/16	5/8	3/16	2	\$12.96
1500014X	1600014X	1700014X	1/4	3/4	1/4	2 1/2	\$17.67
1500516X	1600516X	1700516X	5/16	7/8	5/16	2 1/2	\$24.11
1500038X	1600038X	1700038X	3/8	1	3/8	2 1/2	\$29.18
1500716X	1600716X	1700716X	7/16	1	7/16	2 1/2	\$40.90
1500012X	1600012X	1700012X	1/2	1	1/2	3	\$49.46
1500916X	1600916X	1700916X	9/16	1 1/4	9/16	3 1/2	\$86.52
1500058X	1600058X	1700058X	5/8	1 1/4	5/8	3 1/2	\$90.35
1500034X	1600034X	1700034X	3/4	1 1/2	3/4	4	\$126.85
1500078X	1600078X	1700078X	7/8	1 1/2	7/8	4	\$225.03
1500001X	1600001X	1700001X	1	1 1/2	1	4	\$230.28

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from 10% micrograin carbide

Corner Radius Endmill - Coated

Series:

170X-.000R AlTiN



Part #	Tool 4 FLT Diam	Corner Radius	Flute Length	Shank Diameter	Overall Length	Coated Price
1700332X-.010R	3/32	.010	3/8	1/8	1 1/2	\$11.59
1700332X-.015R	3/32	.015	3/8	1/8	1 1/2	\$11.59
1700332X-.020R	3/32	.020	3/8	1/8	1 1/2	\$11.59
1700018X-.010R	1/8	.010	1/2	1/8	1 1/2	\$11.71
1700018X-.015R	1/8	.015	1/2	1/8	1 1/2	\$11.71
1700018X-.020R	1/8	.020	1/2	1/8	1 1/2	\$11.71
1700018X-.030R	1/8	.030	1/2	1/8	1 1/2	\$11.71
1700316X-.010R	3/16	.010	5/8	3/16	2	\$15.30
1700316X-.015R	3/16	.015	5/8	3/16	2	\$15.30
1700316X-.020R	3/16	.020	5/8	3/16	2	\$15.30
1700316X-.030R	3/16	.030	5/8	3/16	2	\$15.30
1700014X-.015R	1/4	.015	3/4	1/4	2.5	\$20.84
1700014X-.020R	1/4	.020	3/4	1/4	2.5	\$20.84
1700014X-.030R	1/4	.030	3/4	1/4	2.5	\$20.84
1700014X-.045R	1/4	.045	3/4	1/4	2.5	\$20.84
1700014X-.060R	1/4	.060	3/4	1/4	2.5	\$20.84

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Corner Radius Endmill - Coated

Series:

170X-.000R AlTiN



Part #	Tool 4 FLT Diam	Corner Radius	Flute Length	Shank Diameter	Overall Length	Coated Price
1700516X-.015R	5/16	.015	7/8	5/16	2.5	\$28.46
1700516X-.020R	5/16	.020	7/8	5/16	2.5	\$28.46
1700516X-.030R	5/16	.030	7/8	5/16	2.5	\$28.46
1700516X-.045R	5/16	.045	7/8	5/16	2.5	\$28.46
1700516X-.060R	5/16	.060	7/8	5/16	2.5	\$28.46
1700038X-.015R	3/8	.015	1.0	3/8	2.5	\$34.42
1700038X-.020R	3/8	.020	1.0	3/8	2.5	\$34.42
1700038X-.030R	3/8	.030	1.0	3/8	2.5	\$34.42
1700038X-.045R	3/8	.045	1.0	3/8	2.5	\$34.42
1700038X-.060R	3/8	.060	1.0	3/8	2.5	\$34.42
1700012X-.015R	1/2	.015	1.0	1/2	3.0	\$58.36
1700012X-.020R	1/2	.020	1.0	1/2	3.0	\$58.36
1700012X-.030R	1/2	.030	1.0	1/2	3.0	\$58.36
1700012X-.045R	1/2	.045	1.0	1/2	3.0	\$58.36
1700012X-.060R	1/2	.060	1.0	1/2	3.0	\$58.36
1700012X-.090R	1/2	.090	1.0	1/2	3.0	\$58.36
1700012X-.125R	1/2	.125	1.0	1/2	3.0	\$58.36

Tolerance all sizes: Diameter- +.000/-.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Standard Ball Endmill

Standard Ball Mill - Coated

Series:

180



190



195



Series:

180X AlTiN



190X AlTiN



195X AlTiN



Part # 2 FLT	Part # 3 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
1800332	1900332	1950332	3/32	3/8	1/8	1 1/2	\$9.87
1800018	1900018	1950018	1/8	1/2	1/8	1 1/2	\$9.87
1800532	1900532	1950532	5/32	9/16	3/16	2	\$13.87
1800316	1900316	1950316	3/16	5/8	3/16	2	\$12.69
1800014	1900014	1950014	1/4	3/4	1/4	2 1/2	\$17.84
1800516	1900516	1950516	5/16	7/8	5/16	2 1/2	\$22.72
1800038	1900038	1950038	3/8	1	3/8	2 1/2	\$25.80
1800716	1900716	1950716	7/16	1	7/16	2 1/2	\$37.05
1800012	1900012	1950012	1/2	1	1/2	3	\$50.54
1800916	1900916	1950916	9/16	1 1/4	9/16	3 1/2	\$79.04
1800058	1900058	1950058	5/8	1 1/4	5/8	3 1/2	\$85.22
1800034	1900034	1950034	3/4	1 1/2	3/4	4	\$127.08
1800078	1900078	1950078	7/8	1 1/2	7/8	4	\$221.10
1800001	1900001	1950001	1	1 1/2	1	4	\$226.34

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Part # 2 FLT	Part # 3 FLT	Part # 4 FLT	Tool Diam	Flute Length	Shank Diam	Overall Length	Coated Price
1800332X	1900332X	1950332X	3/32	3/8	1/8	1 1/2	\$12.19
1800018X	1900018X	1950018X	1/8	1/2	1/8	1 1/2	\$12.19
1800532X	1900532X	1950532X	5/32	9/16	3/16	2	\$16.20
1800316X	1900316X	1950316X	3/16	5/8	3/16	2	\$15.03
1800014X	1900014X	1950014X	1/4	3/4	1/4	2 1/2	\$21.51
1800516X	1900516X	1950516X	5/16	7/8	5/16	2 1/2	\$28.33
1800038X	1900038X	1950038X	3/8	1	3/8	2 1/2	\$32.01
1800716X	1900716X	1950716X	7/16	1	7/16	2 1/2	\$44.20
1800012X	1900012X	1950012X	1/2	1	1/2	3	\$58.26
1800916X	1900916X	1950916X	9/16	1 1/4	9/16	3 1/2	\$88.93
1800058X	1900058X	1950058X	5/8	1 1/4	5/8	3 1/2	\$95.72
1800034X	1900034X	1950034X	3/4	1 1/2	3/4	4	\$138.70
1800078X	1900078X	1950078X	7/8	1 1/2	7/8	4	\$238.46
1800001X	1900001X	1950001X	1	1 1/2	1	4	\$243.71

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from 10% micrograin carbide

Series:

412



422



Part # 2 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
4120018	4220018	1/8	3/8	1/8	2	\$16.93
4120532	4220532	5/32	7/16	3/16	2 1/2	\$19.71
4120316	4220316	3/16	1/2	3/16	2 1/2	\$19.71
4120014	4220014	1/4	5/8	1/4	2 1/2	\$21.64
4120516	4220516	5/16	3/4	5/16	3 1/2	\$41.03
4120038	4220038	3/8	3/4	3/8	3 1/2	\$38.48
4120716	4220716	7/16	7/8	7/16	4	\$52.42
4120012	4220012	1/2	1	1/2	4	\$61.68

The double end version of the std. length series end mills offer the same tool geometry in an economical offering. These tools are ideal for slotting, keying, and general purpose milling.

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Series:

412X AlTiN



422X AlTiN



Part # 2 FLT	Part # 4 FLT	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
4120018X	4220018X	1/8	3/8	1/8	2	\$20.40
4120532X	4220532X	5/32	7/16	3/16	2 1/2	\$23.37
4120316X	4220316X	3/16	1/2	3/16	2 1/2	\$23.37
4120014X	4220014X	1/4	5/8	1/4	2 1/2	\$27.15
4120516X	4220516X	5/16	3/4	5/16	3 1/2	\$49.68
4120038X	4220038X	3/8	3/4	3/8	3 1/2	\$50.06
4120716X	4220716X	7/16	7/8	7/16	4	\$64.39
4120012X	4220012X	1/2	1	1/2	4	\$75.87

Do you resharpen your carbide endmills?

(Often the ends only can be ground leaving the diameter unchanged!)

Do you require additional identification numbers marked on your Tools?

The Electrox laser we use is capable of many custom applications.

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Long Endmill

Series:

510



520



Part # 2FL	Part # 4FL	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
510018B	520018B	1/8	3/4	1/8	2 1/2	\$11.44
510316C	520316C	3/16	3/4	3/16	2 1/2	\$14.80
510014A	520014A	1/4	1	1/4	4	\$22.30
510014C	520014C	1/4	1 1/8	1/4	3	\$22.11
510516A	520516A	5/16	1 1/8	5/16	3	\$27.59
510038A	520038A	3/8	1 1/8	3/8	3	\$29.82
510038B	520038B	3/8	1	3/8	4	\$36.81
510716A	520716A	7/16	2	7/16	4	\$43.70
510012A	520012A	1/2	1 1/2	1/2	4	\$53.03
510012B	520012B	1/2	2	1/2	4	\$55.27
510058A	520058A	5/8	2 1/4	5/8	5	\$111.18
510034A	520034A	3/4	2 1/4	3/4	5	\$167.99
510001A	520001A	1	2 1/4	1	5	\$234.41

Long length end mills provide longer length of cut and greater reach for deep milling applications.

Tolerance all sizes: Diameter- +.000/- .002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

AlTiN

Long Endmill-Coated

Series:

510X AlTiN



520X AlTiN



Part # 2FL	Part # 4FL	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
510018BX	520018BX	1/8	3/4	1/8	2 1/2	\$13.84
510316CX	520316CX	3/16	3/4	3/16	2 1/2	\$17.23
510014AX	520014AX	1/4	1	1/4	4	\$26.47
510014CX	520014CX	1/4	1 1/8	1/4	3	\$25.78
510516AX	520516AX	5/16	1 1/8	5/16	3	\$33.20
510038AX	520038AX	3/8	1 1/8	3/8	3	\$36.02
510038BX	520038BX	3/8	1	3/8	4	\$44.54
510716AX	520716AX	7/16	2	7/16	4	\$51.68
510012AX	520012AX	1/2	1 1/2	1/2	4	\$62.49
510012BX	520012BX	1/2	2	1/2	4	\$64.73
510058AX	520058AX	5/8	2 1/4	5/8	5	\$124.51
510034AX	520034AX	3/4	2 1/4	3/4	5	\$182.76
510001AX	520001AX	1	2 1/4	1	5	\$254.33

Due to fluctuating carbide costs, prices subject to change.

Tolerance all sizes: Diameter- +.000/- .002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Long Ball Endmill

Series:

530



540



Part #	Part #	Tool	Flute	Shank	Overall	Unc
2 FLT	4 FLT	Diameter	Length	Diameter	Length	Price
530018B	540018B	1/8	3/4	1/8	2 1/2	\$14.60
530316C	540316C	3/16	3/4	3/16	2 1/2	\$17.72
530014A	540014A	1/4	1	1/4	4	\$24.82
530014C	540014C	1/4	1 1/8	1/4	3	\$25.68
530516A	540516A	5/16	1 1/8	5/16	3	\$31.29
530038A	540038A	3/8	1 1/8	3/8	3	\$34.22
530038B	540038B	3/8	1	3/8	4	\$43.46
530716A	540716A	7/16	2	7/16	4	\$53.27
530012A	540012A	1/2	1 1/2	1/2	4	\$60.80
530012B	540012B	1/2	2	1/2	4	\$61.23
530058A	540058A	5/8	2 1/4	5/8	5	\$126.55
530034A	540034A	3/4	2 1/4	3/4	5	\$190.38
530001A	540001A	1	2 1/4	1	5	\$353.47

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

AlTiN

Long Ball Endmill-Coated

Series:

530X AlTiN



540X AlTiN



Part #	Part #	Tool	Flute	Shank	Overall	Coated
2 FLT	4 FLT	Diameter	Length	Diameter	Length	Price
530018BX	540018BX	1/8	3/4	1/8	2 1/2	\$17.00
530316CX	540316CX	3/16	3/4	3/16	2 1/2	\$20.15
530014AX	540014AX	1/4	1	1/4	4	\$28.99
530014CX	540014CX	1/4	1 1/8	1/4	3	\$29.36
530516AX	540516AX	5/16	1 1/8	5/16	3	\$36.90
530038AX	540038AX	3/8	1 1/8	3/8	3	\$40.42
530038BX	540038BX	3/8	1	3/8	4	\$51.19
530716AX	540716AX	7/16	2	7/16	4	\$61.25
530012AX	540012AX	1/2	1 1/2	1/2	4	\$70.26
530012BX	540012BX	1/2	2	1/2	4	\$70.69
530058AX	540058AX	5/8	2 1/4	5/8	5	\$139.88
530034AX	540034AX	3/4	2 1/4	3/4	5	\$205.15
530001AX	540001AX	1	2 1/4	1	5	\$373.39

Long length ball end mills have the capability to machine much thicker material, eliminating the interrupted cut that may be present with regular length tools.

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Metric Endmills

AlTiN

Metric Endmills - Coated

Series:

170MET



Part #	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Unc Price
170MET035	3.5mm	12mm	4mm	50mm	\$12.17
170MET040	4.0mm	14mm	4mm	50mm	\$12.67
170MET045	4.5mm	16mm	6mm	50mm	\$16.22
170MET050	5.0mm	16mm	6mm	50mm	\$17.21
170MET060	6.0mm	19mm	6mm	50mm	\$18.21
170MET070	7.0mm	19mm	8mm	63mm	\$25.66
170MET080	8.0mm	20mm	8mm	63mm	\$27.66
170MET090	9.0mm	22mm	10mm	75mm	\$38.10
170MET100	10.0mm	22mm	10mm	75mm	\$39.10
170MET110	11.0mm	25mm	12mm	75mm	\$49.07
170MET120	12.0mm	25mm	12mm	75mm	\$49.57
170MET140	14.0mm	32mm	14mm	89mm	\$69.58
170MET160	16.0mm	32mm	16mm	89mm	\$88.06
170MET180	18.0mm	38mm	18mm	100mm	\$163.44
170MET200	20.0mm	38mm	20mm	100mm	\$157.76
170MET250	25.0mm	38mm	25mm	100mm	\$222.86

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from Sub-micrograin carbide

Series:

170MET - AlTiN



Part #	Tool Diameter	Flute Length	Shank Diameter	Overall Length	Coated Price
170MET035X	3.5mm	12mm	4mm	50mm	\$14.50
170MET040X	4.0mm	14mm	4mm	50mm	\$15.00
170MET045X	4.5mm	16mm	6mm	50mm	\$18.55
170MET050X	5.0mm	16mm	6mm	50mm	\$19.55
170MET060X	6.0mm	19mm	6mm	50mm	\$20.55
170MET070X	7.0mm	19mm	8mm	63mm	\$31.27
170MET080X	8.0mm	20mm	8mm	63mm	\$33.27
170MET090X	9.0mm	22mm	10mm	75mm	\$45.25
170MET100X	10.0mm	22mm	10mm	75mm	\$46.24
170MET110X	11.0mm	25mm	12mm	75mm	\$56.79
170MET120X	12.0mm	25mm	12mm	75mm	\$57.29
170MET140X	14.0mm	32mm	14mm	89mm	\$79.48
170MET160X	16.0mm	32mm	16mm	89mm	\$98.55
170MET180X	18.0mm	38mm	18mm	100mm	\$175.05
170MET200X	20.0mm	38mm	20mm	100mm	\$171.64
170MET250X	25.0mm	38mm	25mm	100mm	\$240.22

Tolerance all sizes: Diameter- +.000/-0.002 Shank- -.0001, -.0003 Made from 10% micrograin carbide

Back Chamfer Tools

Tool Extensions

Series:

BCC



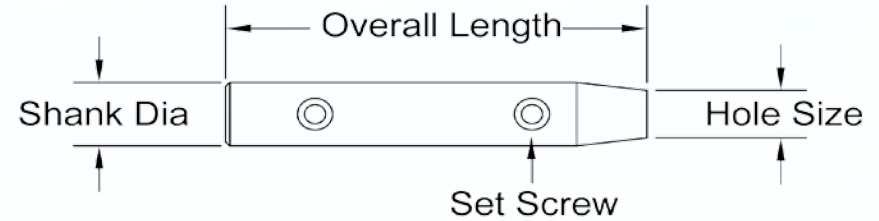
SOLID CARBIDE BACK CHAMFER 3 FLUTE
endmill can machine a 45 degree
backchamfer from the front side of your part.

AlTiN Coated

Part #	Tip	Neck	Shank	Reach	Overall	Price
BCC014X	.240	.125	.250	0.500	2.5	\$56.79
BCC014LX	.240	.125	.250	1.000	2.5	\$68.51
BCC375X	.365	.187	.375	0.750	2.5	\$79.28
BCC375LX	.365	.187	.375	1.250	2.5	\$91.53
BCC012X	.490	.250	.500	1.000	3.0	\$118.65
BCC012LX	.490	.250	.500	1.500	3.0	\$130.38
BCC058X	.615	.375	.625	1.125	3.5	\$187.51
BCC058LX	.615	.375	.625	1.750	3.5	\$200.11

Uncoated

Part #	Tip	Neck	Shank	Reach	Overall	Price
BCC014	.240	.125	.250	0.500	2.5	\$53.53
BCC014L	.240	.125	.250	1.000	2.5	\$65.26
BCC375	.365	.187	.375	0.750	2.5	\$74.43
BCC375L	.365	.187	.375	1.250	2.5	\$86.68
BCC012	.490	.250	.500	1.000	3.0	\$112.67
BCC012L	.490	.250	.500	1.500	3.0	\$124.39
BCC058	.615	.375	.625	1.125	3.5	\$178.83
BCC058L	.615	.375	.625	1.750	3.5	\$191.43



Part #	Hole Dia.	Dec.	Shank	Overall	Screw	PRICE
12501	1/8	0.125	0.375	3.00	8-32	\$105.00
18701	3/16	0.187	0.500	3.00	8-32	\$105.00
25001	1/4	0.250	0.500	3.00	10-32	\$105.00
31201	5/16	0.312	0.750	4.00	1/4-20	\$109.20
37501	3/8	0.375	0.750	4.00	1/4-20	\$109.20

- Two opposed set screws for secure holding and a third for possible use with positive stop.
- A-2 Steel, hardened to 60-62 R.C.
- Concentricity within .0002
- Black Oxide Finish



We can meet all of your needs for special milling cutters. Whether shank type or arbor type, solid carbide, carbide tipped or high speed steel, the in house experts can manufacture cutters to suit your requirements.

Internal Hex Broach

Series:

RPBH



Part Number	Hex Size	Shank Diameter	Depth of cut	Overall Length	Tool Price
RPBH116	1/16"	8mm	3/32"	1-1/4"	\$46.94
RPBH332	3/32"	8mm	9/64"	1-1/4"	\$46.94
RPBH018	1/8"	8mm	3/16"	1-1/4"	\$46.94
RPBH532	5/32"	8mm	1/4"	1-1/4"	\$46.94
RPBH316	3/16"	8mm	9/32"	1-1/4"	\$46.94
RPBH732	7/32"	8mm	11/32"	1-1/4"	\$46.94
RPBH014	1/4"	8mm	3/8"	1-1/4"	\$46.94
RPBH932	9/32"	8mm	3/8"	1-1/2"	\$61.92
RPBH516	5/16"	8mm	3/8"	1-1/2"	\$61.92

Additional sizes available upon request!

H.S.S. Rotary broaches – used in a variety of machines to cut hex shapes in blind holes. The practical forming length being 1-1/2 times the size of the broach (measured across flats)

Mission Statement

Myles Tool Company's goal is to become the most respected, dependable and cost effective provider of cutting tools in the industry.

We will achieve our vision by utilizing state of the art technology to provide the most advanced solutions for our customers.

We will focus on customer service, quality, dependability, competitive pricing, endeavoring to maintain a high caliber company image through constant improvement.

Myles Tool Company has been in business since 1977. Over the years we have grown to over 45,000 square feet of manufacturing space.





MYLES

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