



MANUFACTURER OF PRECISION CUTTING TOOLS



www.bitsbits.com



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order information


CONDITIONS: Bits & Bits Company Inc. warrants it's products to be free from defects in materials and workmanship. We will not be held liable for any injury, loss, or damage arising from the use of our products.

PRICING: Due to the constant change in materials and labor, all prices subject to change without notice.

TERMS: We accept Visa, MasterCard, American Express and PayPal. COD with company check or money order. Net 30 days for pre-approved customers. Terms can be established for those who setup an account.

CONDITIONS: We ship UPS, FedEx, or U.S. Mail. All orders F.O.B. Silverton, Oregon.

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quality tools create value...
BETTER TOOLS SIMPLY LAST LONGER!

We provide QUALITY cutting tools to our customers...

Bits & Bits Company is one of the leaders in the manufacturing and supplying of wood CNC router bits, high performance end mills, engraving cutters and many other rotary cutting tools for industrial and medical applications.

Our small family business relies on over 30 years of dedicated employee experience and knowledge in these fields. Bits & Bits combines this experience with our state-of-the-art CNC grinding equipment and continuous quality improvement to provide our customers with superior products, and to give every customer fast service at the lowest possible cost.

This catalog introduces a variety of new tools for the CNC milling industry. Many of our tools have been developed due to the needs of our customers. We sell around the globe and many orders can be shipped the same day. Discounts are available for large volume orders. Contact our sales department for more information. Also, be sure to visit our website www.bitsbits.com for special offers

wood carving & cnc milling bits

CNC SIGN ENGRAVING BITS | COMPRESSION BITS | WOOD CARVING ROUTER BITS



420-DNC250



SRB4-250UP

SPIRAL 2 FLUTE DOWNCUT ROUTER BITS

PART NUMBER	DESCRIPTION	PRICE
1/8" SHANK		
820-DNC032	1/32" Down Cut 2FL Spiral CNC Bit - 1/8" LOC	\$28.50
820-DNC062	1/16" Down Cut 2FL Spiral CNC Bit - 3/16" LOC	\$26.50
820-DNC062LR	1/16" Down Cut 2FL Spiral CNC Bit - w/ 3/16" LOC & 3/4" LOR	\$28.50
820-DNC125	1/8" Down Cut 2FL Spiral CNC Bit - 1" LOC	\$26.50
1/4" SHANK		
420-DNC062LR	1/16" Down Cut 2FL Spiral CNC Bit - w/ 1/4" LOC & 1/2" LOR	\$36.50
420-DNC062	1/16" Down Cut 2 FL Spiral CNC Bit - 3/16" LOC	\$32.50
420-DNC125	1/8" Down Cut 2 FL Spiral CNC Bit - 5/8" LOC	\$29.50
420-DNC125LR	1/8" Down Cut 2 FL Spiral CNC Bit - 1" LOC	\$32.50
420-DNC250	1/4" Down Cut 2 FL Spiral CNC Bit - 1" LOC	\$29.50
1/2" SHANK		
530-DNC500	1/2" Down Cut 2FL Spiral CNC Bit - 1-1/2" LOC	\$72.50
W-RD5200CB	1/2" Whiteside Down Cut 2FL Chip Breaker CNC Bit - 2"LOC	\$77.50



425-CM250

SPIRAL 2 FLUTE COMPRESSION BITS

PART NUMBER	DESCRIPTION	PRICE
1/8" SHANK		
820-CM125	1/8" Compression Bit Up/Down Spiral 2FL - 5/8" LOC	\$32.00
1/4" SHANK		
425-CM125	1/8" Compression Bit Up/Down Spiral 2FL - 5/8" LOC	\$45.50
425-CM125LR	1/8" Compression Bit Up/Down Spiral 2FL - 1" LOC	\$47.50
425-CM250	1/4" Compression Bit Up/Down Spiral 2FL - 1" LOC	\$43.50
1/2" SHANK		
530-CM500	1/2" Compression Bit Up/Down Spiral 2FL - 1-1/2" LOC	\$78.50
540-CM500	1/2" Compression Bit Up/Down Spiral 2FL - 2" LOC	\$85.50

SPIRAL 2 FLUTE UPCUT BITS

PART NUMBER	DESCRIPTION	PRICE
1/8" SHANK		
DC062B	1/16" Deep Cut Long Reach Ball End Mill w/ 1/2" LOC & 3/4" LOR	\$26.50
DB062UP	1/16" Up-Cut Ball Nose 2FL Spiral CNC Bit - 1/2" LOC	\$24.50
DB125UP	1/8" Up-Cut Ball Nose 2FL Spiral CNC Bit - 1" LOC	\$24.50
DC062F	1/16" Deep Cut Long Reach 2FL Flat - w/ 1/2" LOC & 3/4" LOR	\$26.50
DF062UP	1/16" Up-Cut Flat End 2FL Spiral CNC Bit - 1/2" LOC	\$24.50
DF125UP	1/8" Up-Cut Flat End 2FL Spiral CNC Bit - 1" LOC	\$24.50
1/4" SHANK		
425-ST125C	1/8" Straight Bit 2FL UpCut CNC Bit - 3/4"LOC	\$34.50
425-ST250C	1/4" Straight Bit 2FL UpCut CNC Bit - 3/4"LOC	\$32.50
SRB4-062UP	1/16" Up-Cut Ball Nose 2FL Spiral CNC Bit - 1/4" LOC	\$32.50
SRB4-062LR	1/16" Up-Cut Ball Nose 2FL Spiral CNC Bit - 1/4" LOC & 1/2" LOR	\$36.50
SRB4-125UP	1/8" Up-Cut Ball Nose 2FL Spiral CNC Bit - 1" LOC	\$29.50
SRB4-187UP	3/16" Up-Cut Ball Nose 2FL Spiral CNC Bit - 3/4" LOC	\$29.50
SRB4-250UP	1/4" Up-Cut Ball Nose 2FL Spiral CNC Bit - 1" LOC	\$29.50
SRF4-062UP	1/16" Up-Cut Flat End 2FL Spiral CNC Bit - 1/4" LOC	\$30.50
SRF4-062LR	1/16" Up-Cut Square End 2FL Spiral CNC Bit - 1/4" LOC & 1/2" LOR	\$34.50
SRF4-125UP	1/8" Up-Cut Flat End 2FL Spiral CNC Bit - 1" LOC	\$27.50
SRF4-187UP	3/16" Up-Cut Flat End 2FL Spiral CNC Bit - 3/4" LOC	\$27.50
SRF4-250UP	1/4" Up-Cut Flat End 2FL Spiral CNC Bit - 1" LOC	\$27.50
1/4" SHANK - LONG FLUTE		
XL14-4150C	1/4" x 4" SQ Long Flute Router Bit - 1-1/2" LOC	\$30.50
XL14-420C	1/4" x 4" SQ Long Flute Router Bit - 2" LOC	\$32.50
XLB14-4150C	1/4" x 4" Ball Long Flute Router Bit - 1-1/2" LOC	\$32.50
XLB14-425	1/4" x 4" Ball Long Flute Router Bit - 2-1/4" LOC	\$34.50
1/2" SHANK		
540-SRF500	1/2" UpCut Spiral Bit 2FL - 2" LOC	\$75.00
535-SRF375	3/8" UpCut Spiral Bit 2FL - 1-1/4"LOC	\$59.00
W-RU5200CB	1/2" Whiteside Upcut 2FL Chip Breaker CNC Bit - 2" LOC	\$77.50

HIGH PERFORMANCE * ASTRA COATED * TOOL LINE



V-1550



425-CR30.005

V-GROOVE & SIGN ENGRAVING V-BITS

PART NUMBER	DESCRIPTION	PRICE
425-CR30.005	Engraving Router V-Bit 30 deg .005	\$25.00
425-CR30.010	Engraving Router V-Bit 30 deg .010	\$25.00
425-CR45.005	Engraving Router V-Bit 45 deg .005	\$25.00
425-CR45	Engraving Router V-Bit 45 deg point	\$22.00
425-CR60	Engraving Router V-Bit 60 deg point	\$22.00
425-CR90	Engraving Router V-Bit 90 deg point	\$22.00
425-CR120	Engraving Router V-Bit 120 deg point	\$22.00
SC50	Whiteside SC50 Carving Liner 22 deg	\$32.50
SC54	Whiteside SC54 Carving Liner 15 deg - 1/16 Tip	\$32.50
V-1500	Whiteside 1500 V-Groove 90 deg - 1/4" Cut Diameter	\$23.50
V-1501	Whiteside 1501 V-Groove 90 deg - 3/8" Cut Diameter	\$26.50
V-1502	Whiteside 1502 V-Groove 90 deg 1/2" Cut Diameter	\$29.50
V-1541	Whiteside 1541 V-Groove 60 deg 1/4" Cut Diameter	\$25.50
V-1550	Whiteside 1550 V-Groove 60 deg 1/2" Cut Diameter	\$29.50
V-1506	Whiteside 1506 V Groove 90 deg 1" Cut Diameter	\$52.50
V-1508	Whiteside 1508 V Groove 90 deg 1-1/2" Cut Diameter	\$72.50



4TEB7-032-3FL

2D/3D CARVING ROUTER BITS

PART NUMBER	DESCRIPTION	PRICE
1/8" SHANK		
TEB10-032C	1/32" Ball 5 Degree Taper Carving Bit - 13/32" LOC	\$27.00
TEB10-062C	1/16" Ball 5 Degree Taper Carving Bit - 13/32" LOC	\$27.00
1/4" SHANK		
4TEB2-062-3FL	1/16" Ball 1 Degree Taper Carving Bit - 1" LOC	\$42.50
4TEB2-125-3FL	1/8" Ball 1 Degree Taper Carving Bit - 1-1/2" LOC	\$42.50
4TEF2-125-3FL	1/8" SQ 1 Degree Taper Carving Bit - 1-1/2" LOC	\$36.50
4TEF3-125-3FL	1/8" SQ 1.5 Degree Taper Carving Bit - 1" LOC	\$36.50
4TEB7-032-3FL	1/32" Ball 3.5 Degree Taper Carving Bit - 1" LOC	\$42.50
4TEB7-062-3FL	1/16" Ball 3.5 Degree Taper Carving Bit - 1-1/2" LOC	\$42.50
4TEB7-125-3FL	1/8" Ball 3.5 Degree Taper Carving Bit - 1-1/2" LOC	\$38.50
4TEF7-125-3FL	1/8" SQ 3.5 Degree Taper Carving Bit - 1-1/2" LOC	\$34.50
4TEB10-020-3FL	.020 Ball 5 Degree Taper Carving Bit 3" LOC	\$42.50
4TEB10-032-2FL	1/32" Ball 5 Degree Taper Carving Bit - 1" LOC	\$38.50
4TEB10-062-2FL	1/16" Ball 5 Degree Taper Carving Bit - 1" LOC	\$38.50
4TEB12-032-3FL	1/32" Ball 6.2 Degree Taper Carving Bit - 1" LOC	\$38.50
4TEF12-032-3FL	1/32" Flat 6.2 Degree Taper Carving Bit - 1" LOC	\$34.50

Bits & Bits Company manufactures CNC V-Groove Bits, Sign Engraving Bits, Wood Carving Router Bits and Compression Bits. These bits are used to cut decorative grooves on signs and panels or to chamfer the edges of your parts. We also offer various V-Groove engraving bits for engraving or milling on wood. These tools are coated with our proprietary high performance ASTRA coating which allows higher speed & feed rates as well as extended tool life & increased lubricity. We offer only the finest router bits. All of our router bits are made in the USA and carefully inspected for quality assurance. *We also are a proud distributor of Whiteside Router Bits. The WHITESIDE brand tools have been tested by FINE WOODWORKING Magazine and have been proven to out last all of the other brands.*



W-6210



W-6220

WHITESIDE SPOILBOARD SURFACING BITS

PART NUMBER	DESCRIPTION	PRICE
W-6210	1/4" Shank 3 Wing - 1" Width of Cut	\$42.50
W-6220	1/2" Shank 4 Wing - 2" Width of Cut	\$98.50
W-SB25-2	1/2" Shank 2 Wing - 2-1/2" Width of Cut	\$325.00



W-1372



W-1406

WHITESIDE BOWL & TRAY BITS

PART NUMBER	DESCRIPTION	PRICE
W-1370	Bowl & Tray 1/8" Radius - 7/16" Cut Dia - 1/4" Shank	\$32.50
W-1372	Bowl & Tray 1/4" Radius - 3/4" Cut Dia - 1/4" Shank	\$34.50
W-1374	Bowl & Tray 1/4" Radius - 3/4" Cut Dia - 1/2" Shank	\$37.50
W-1376	Bowl & Tray 1/4" Radius - 1-1/4" Cut Dia - 1/2" Shank	\$49.50

WHITESIDE ROUND NOSE / CORE BOX BITS

PART NUMBER	DESCRIPTION	PRICE
W-1403	Round Nose 3/16" Radius - 3/8" Cut Dia - 1/4" Shank	\$29.50
W-1404	Round Nose 1/4" Radius - 1/2" Cut Dia - 1/4" Shank	\$32.50
W-1406	Round Nose 3/8" Radius - 3/4" Cut Dia - 1/4" Shank	\$33.50
W-1411	Round Nose 3/8" Radius - 3/4" Cut Dia - 1/2" Shank	\$49.50
W-1413	Round Nose 1/2" Radius - 1" Cut Dia 1/2" Shank	\$59.50



W-8070006

WHITESIDE COUNTERSINKS

PART NUMBER	DESCRIPTION	PRICE
W-8070006	82° - 3/8" OD, 9/64" ID - Taper Drill #6	\$23.50
W-8070008	82° - 3/8" OD, 11/64" ID - Taper Drill #8	\$23.50
W-8071416	9/64" Taper Point Drill For #6 Screws	\$3.50
W-8071728	11/64" Taper Point Drill For #8 Screws	\$3.50



W-1026

WHITESIDE STRAIGHT BITS

PART NUMBER	DESCRIPTION	PRICE
W-1012	Straight Bit 1/4" Shank - 1/4" Cut Diameter - 1/2" LOC	\$25.50
W-1013	Straight Bit 1/4" Shank - 1/4" Cut Diameter - 3/4" LOC	\$25.50
W-1014	Straight Bit 1/4" Shank - 1/4" Cut Diameter - 1" LOC	\$27.50
W-1019	Straight Bit 1/4" Shank - 5/16" Cut Diameter - 1" LOC	\$27.50
W-1025	Straight Bit 1/4" Shank - 1/2" Cut Diameter - 3/4" LOC	\$29.50
W-1026	Straight Bit 1/4" Shank - 1/2" Cut Diameter - 1" LOC	\$30.50
W-1030	Straight Bit 1/4" Shank - 3/4" Cut Diameter - 3/4" LOC	\$31.50
W-1031	Straight Bit 1/4" Shank - 1/2" Cut Diameter - 1" LOC	\$32.50
W-1069	Straight Bit 1/2" Shank - 1/2" Cut Dia - 1-1/2" LOC	\$36.50
W-1073	Straight Bit 1/2" Shank - 1/2" Cut Dia - 2-1/2" LOC	\$43.50

extra long fluted end mills

These **Extra Long Fluted End Mills** have an extra long flute length to allow deep cutting and milling. The **Flat** end is designed like its name implies, with a flat (or square) tip, while the **Ball** end has a round tip.



XL14-420



XLB14-4150

EXTRA LONG FLAT		
PART NUMBER	DESCRIPTION	PRICE
XL14-4150	1/4" x 4" SQ - 1-1/2" Cut Length Extra Long	\$26.50
XL14-420	1/4" x 4" SQ - 2" Cut Length Extra Long	\$28.50
XL14-6150	1/4" x 6" SQ - 1-1/2" Cut Length Extra Long	\$30.50
XL516-4158	5/16" x 4" SQ - 1-5/8" Cut Length Extra Long	\$34.50
XL516-6150	5/16" x 6" SQ - 1-1/2" Cut Length Extra Long	\$37.50
XL516-630	5/16" x 6" SQ - 3" Cut Length Extra Long	\$45.75
XL38-4175	3/8" x 4" SQ - 1-3/4" Cut Length Extra Long	\$35.95
XL38-6150	3/8" x 6" SQ - 1-1/2" Cut Length Extra Long	\$49.95
XL38-630	3/8" x 6" SQ - 3" Cut Length Extra Long	\$54.95
XL76-630	7/16" x 6" SQ - 3" Cut Length Extra Long	\$75.95
XL12-630	1/2" x 6" SQ - 3" Cut Length Extra Long	\$105.95

EXTRA LONG BALL		
PART NUMBER	DESCRIPTION	PRICE
XLB14-4150	1/4" x 4" Ball - 1-1/2" Cut Length Extra Long	\$32.50
XLB14-6150	1/4" x 6" Ball - 1-1/2" Cut Length Extra Long	\$36.50
XLB516-4158	5/16" x 4" Ball - 1-5/8" Cut Length Extra Long	\$39.50
XLB516-6150	5/16" x 6" Ball - 1-1/2" Cut Length Extra Long	\$42.50
XLB516-630	5/16" x 6" Ball - 3" Cut Length Extra Long	\$56.50
XLB38-4175	3/8" x 4" Ball - 1-3/4" Cut Length Extra Long	\$46.50
XLB38-630	3/8" x 6" Ball - 3" Cut Length Extra Long	\$61.50
XLB76-630	7/16" x 6" Ball - 3" Cut Length Extra Long	\$88.50
XLB12-630	1/2" x 6" Ball - 3" Cut Length Extra Long	\$109.95

2 flute standard end mills

2 Flute Standard End Mill tools are great for drilling, slotting, cutting or truing surfaces.



SRF4-250



SRB4-250

1/4" X 2-1/2" STANDARD FLAT		
PART NUMBER	DESCRIPTION	PRICE
SRF4-062	1/16" SQ End Mill - 1/4" LOC	\$25.50
SRF4-125	1/8" SQ End Mill - 1/2" LOC	\$21.50
SRF4-125LR	1/8" SQ End Mill - 1" LOC	\$22.00
SRF4-187	3/16" SQ End Mill - 3/4" LOC	\$22.50
SRF4-250	1/4" SQ End Mill - 1" LOC	\$22.50

1/4" X 2-1/2" STANDARD BALL		
PART NUMBER	DESCRIPTION	PRICE
SRB4-062	1/16" Ball End Mill - 1/4" LOC	\$27.50
SRB4-125	1/8" Ball End Mill - 1/2" LOC	\$23.50
SRB4-125LR	1/8" Ball End Mill - 1" LOC	\$24.50
SRB4-187	3/16" Ball End Mill - 3/4" LOC	\$24.50
SRB4-250	1/4" Ball End Mill - 1" LOC	\$24.50

foam cutters 2 flute straight end mills

2 Flute Straight End Mill tools are perfect for milling Polyurethane, Polyethylene and Extruded Polystyrene Foam along with many other types of foam.



425-ST250



425-UP250

1/4" X 2-1/2" STRAIGHT BITS		
PART NUMBER	DESCRIPTION	PRICE
425-ST125	1/8" - 2 Flute Straight Bit - 3/4" LOC	\$29.50
425-ST250	1/4" - 2 Flute Straight Bit - 3/4" LOC	\$29.50
440-ST250	1/4" - 2 Flute Straight Bit - 2" LOC	\$32.50

1/4" X 2-1/2" SINGLE FLUTE UPCUTS		
PART NUMBER	DESCRIPTION	PRICE
420-UP062	1/16" - 'O' Flute CNC Spiral UpCut CNC Bit - 1/4" LOC	\$32.50
425-UP125	1/8" - 'O' Flute CNC Spiral UpCut CNC Bit - 5/8" LOC	\$29.00
425-UP250	1/4" - 'O' Flute CNC Spiral UpCut CNC Bit - 3/4" LOC	\$29.00

spiral 'o' upcuts single flute

Single Flute UpCut Bits are simply the best router bits to use for milling and routing most plastics, PVC, foam boards, aluminum and even corian. They will also cut fiberglass and acrylic without heating up the material.

deep cut end mills

These **Deep Cut End Mills** have an extra long flute length to allow deep cutting and milling. The **Flat** end is designed like its name implies, with a flat (or square) tip, while the **Ball** end has a round tip. **TOOL SIZE 1/8" X 2"**



DEEP CUT END MILLS | FLAT

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
DP016F	.016	0.41	.160	2.30	\$25.50
DP020F	.020	0.51	.180	4.57	\$19.50
DP024F	.024	0.60	.230	5.80	\$19.50
DP030F	.030	0.76	.300	7.62	\$17.50
DP032F	.032	0.81	.300	7.62	\$17.50
DP040F	.040	1.02	.350	8.90	\$17.50
DP050F	.050	1.27	.450	11.43	\$17.50
DP059F	.059	1.50	.450	11.43	\$17.50
DP062F	.062	1.57	.450	11.43	\$16.50
DP080F	.080	2.00	.750	19.05	\$16.50
DP093F	.093	2.36	.750	19.05	\$16.50
DP125F	.125	3.18	1.00	25.40	\$16.50

DEEP CUT END MILLS | BALL

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
DP016B	.016	0.41	.090	2.30	\$28.50
DP020B	.020	0.51	.180	4.57	\$22.00
DP024B	.024	0.60	.230	5.80	\$22.00
DP030B	.030	0.76	.300	7.62	\$19.50
DP032B	.032	0.81	.300	7.62	\$19.50
DP040B	.040	1.02	.350	8.90	\$19.50
DP050B	.050	1.27	.450	11.43	\$19.50
DP059B	.059	1.50	.450	11.43	\$19.50
DP062B	.062	1.57	.450	11.43	\$17.50
DP080B	.080	2.00	.750	19.05	\$17.50
DP093B	.093	2.36	.750	19.05	\$17.50
DP125B	.125	3.18	1.00	25.40	\$17.50

long reach end mills

The **Long Reach End Mill** tools have a relief grind after the flutes to allow you to continue your cut or plunge without hitting the shaft of the tool. **TOOL SIZE 1/8" X 1-1/2"**



LONG REACH END MILLS | FLAT

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	FLUTE LENGTH (IN)	FLUTE LENGTH (MM)	REACH LENGTH (IN)	REACH LENGTH (MM)	PRICE EACH
LR005-075F	.005	0.13	.015	0.38	.075	1.9	\$27.00
LR006-075F	.006	0.15	.018	0.45	.075	1.9	\$22.50
LR008-075F	.008	0.20	.024	0.60	.075	1.9	\$22.50
LR009-075F	.009	0.23	.027	0.70	.075	1.9	\$22.50
LR009F	.009	0.23	.027	0.70	.125	3.18	\$41.75
LR010-075F	.010	0.25	.030	0.76	.075	1.9	\$24.50
LR011-075F	.011	0.28	.033	0.83	.075	1.9	\$24.50
LR012-075F	.012	0.30	.036	0.91	.075	1.9	\$24.50
LR012F	.012	0.30	.036	0.91	.200	5.0	\$39.50
LR014-075F	.014	0.35	.042	1.06	.075	1.9	\$24.50
LR015-075F	.015	0.38	.045	1.14	.075	1.9	\$24.50
LR015F	.015	0.38	.045	1.14	.200	5.0	\$34.50
LR016-075F	.016	0.40	.048	1.21	.075	1.9	\$24.50
LR017-075F	.017	0.43	.051	1.30	.075	1.9	\$24.50
LR020F	.020	0.51	.060	1.52	.250	6.35	\$28.50
LR025F	.025	0.64	.075	1.91	.250	6.35	\$25.50
LR032F	.032	0.81	.096	2.43	.350	8.90	\$25.50
LR040F	.040	1.02	.120	3.18	.350	8.90	\$24.50
LR062F	.062	1.57	.186	4.35	.400	10.16	\$23.00

LONG REACH END MILLS | BALL

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	FLUTE LENGTH (IN)	FLUTE LENGTH (MM)	REACH LENGTH (IN)	REACH LENGTH (MM)	PRICE EACH
LR008-075B	.008	0.20	.024	0.60	.075	1.9	\$32.00
LR009-075B	.009	0.23	.027	0.70	.075	1.9	\$32.00
LR009B	.009	0.23	.027	0.70	.125	3.18	\$32.00
LR010-075B	.010	0.25	.030	0.76	.075	1.9	\$28.00
LR011-075B	.011	0.28	.033	0.83	.075	1.9	\$28.00
LR012-075B	.012	0.30	.036	0.91	.075	1.9	\$28.00
LR012B	.012	0.30	.036	0.91	.200	5.0	\$32.00
LR015B	.015	0.38	.045	1.14	.200	5.0	\$32.00
LR020B	.020	0.51	.060	1.52	.250	6.35	\$30.75
LR025B	.025	0.64	.075	1.91	.250	6.35	\$27.75
LR032B	.032	0.81	.096	2.43	.350	8.90	\$27.75
LR040B	.040	1.02	.120	3.18	.350	8.90	\$26.75
LR062B	.062	1.57	.186	4.35	.400	10.1	\$25.75

SUPER LONG REACH END MILLS | BALL

SLR020B	.020	0.50	.060	1.52	.4000	10	\$30.50
SLR025B	.025	0.64	.075	1.91	.5900	15	\$28.50
SLR032B	.032	0.81	.090	2.28	.5900	15	\$28.50
SLR040B	.040	1.01	.120	3.04	.6300	16	\$28.50
SLR062B	.062	1.57	.185	4.35	.7080	18	\$26.50

SUPER LONG REACH END MILLS | FLAT

SLR020F	.020	0.50	.060	1.52	.4000	10	\$28.50
SLR025F	.025	0.64	.075	1.91	.5900	15	\$26.50
SLR032F	.032	0.76	.090	2.28	.5900	15	\$26.50
SLR040F	.040	1.01	.120	3.04	.6300	16	\$26.50
SLR062F	.062	1.57	.185	4.35	.7080	18	\$24.50

tapered end mills

Our **Tapered End Mills** tool combines the strength of an end mill with the taper of our Profile tools. The result is a much stronger and cleaner cutting tool. The ball end gives a nice finish to your work, while the flat end mill will cut square corners. **TOOL SIZE 1/8" X 1-1/2"**



TAPERED END MILLS | BALL

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	INCLUDED ANGLE	SIDE ANGLE	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
TEB6-004	.004	0.101	6°	3°	.400	10.16	\$39.50
TEB6-005	.005	0.127	6°	3°	.400	10.16	\$37.00
TEB10-004	.004	0.101	10°	5°	.400	10.16	\$39.50
TEB10-005	.005	0.127	10°	5°	.400	10.16	\$37.00
TEB10-005DC	.005	0.127	10°	5°	.750	19.00	\$39.50
TEB10-007	.007	0.178	10°	5°	.400	10.16	\$33.25
TEB10-010	.010	0.254	10°	5°	.400	10.16	\$33.25
TEB10-010DC	.010	0.254	10°	5°	.750	19.00	\$33.25
TEB10-015	.015	0.381	10°	5°	.400	10.16	\$33.25
TEB10-020	.020	0.508	10°	5°	.400	10.16	\$33.25
TEB10-032	.032	0.812	10°	5°	.400	10.16	\$26.50
TEB10-062	.062	1.570	10°	5°	.400	10.16	\$24.50
TEB15-004	.004	0.101	15°	7.5°	.400	10.16	\$32.00
TEB15-005	.005	0.127	15°	7.5°	.400	10.16	\$32.00
TEB15-010	.010	0.254	15°	7.5°	.400	10.16	\$32.00
TEB15-015	.015	0.381	15°	7.5°	.400	10.16	\$32.00
TEB15-020	.020	0.508	15°	7.5°	.400	10.16	\$32.00

TAPERED END MILLS W/ RELIEF | BALL

TEB6-004LR	.004	0.101	6°	3°	.400	10.16	\$39.95
TEB6-005LR	.005	0.127	6°	3°	.400	10.16	\$39.95
TEB10-004LR	.004	0.101	10°	5°	.400	10.16	\$39.95
TEB10-005LR	.005	0.127	10°	5°	.400	10.16	\$39.95

TAPERED END MILLS | FLAT

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	INCLUDED ANGLE	SIDE ANGLE	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
TEF10-005	.005	0.127	10°	5°	.400	10.16	\$36.90
TEF10-010	.010	0.254	10°	5°	.400	10.16	\$33.25
TEF10-015	.015	0.381	10°	5°	.400	10.16	\$33.25
TEF10-020	.020	0.508	10°	5°	.400	10.16	\$33.25
TEF10-032	.032	0.810	10°	5°	.400	10.16	\$23.25
TEF15-004	.004	0.101	15°	7.5°	.400	10.16	\$32.00
TEF15-005	.005	0.127	15°	7.5°	.400	10.16	\$32.00
TEF15-010	.010	0.254	15°	7.5°	.400	10.16	\$32.00
TEF15-015	.015	0.381	15°	7.5°	.400	10.16	\$32.00
TEF15-020	.020	0.508	15°	7.5°	.400	10.16	\$32.00
TEF30-005	.005	0.127	30°	15°	.200	5.10	\$24.95
TEF30-010	.010	0.254	30°	15°	.200	5.10	\$22.50



Tapered End Mills with relief allow you to plunge deeper into your part or mold. Tapered End Mills with relief have a reach of 15.00MM

4 flute end mills

4 Flute End Mills are great for engraving or milling hard materials like stainless steel, metal, etc **TOOL SIZE 1/8" X 1-1/2"**



4 FLUTE END MILLS | FLAT

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
SRF005-4FL	.005	0.13	.015	0.38	\$20.50
SRF010-4FL	.010	0.25	.030	0.76	\$19.50
SRF015-4FL	.015	0.38	.045	1.14	\$19.50
SRF020-4FL	.020	0.51	.060	1.52	\$19.50
SRF025-4FL	.025	0.64	.075	1.91	\$16.50
SRF030-4FL	.030	0.76	.090	2.28	\$16.50
SRF032-4FL	.032	0.81	.096	2.43	\$16.50
SRF040-4FL	.040	1.02	.120	3.18	\$16.50
SRF045-4FL	.045	1.14	.135	3.42	\$16.50
SRF050-4FL	.050	1.27	.150	3.80	\$16.50
SRF059-4FL	.059	1.49	.177	4.49	\$16.50
SRF060-4FL	.060	1.52	.180	4.57	\$16.50
SRF093-4FL	.093	2.36	.280	7.10	\$16.50
SRF125-4FL	.125	3.18	.375	9.52	\$12.50

4 FLUTE END MILLS | BALL

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
SRB010-4FL	.010	0.25	.030	0.76	\$22.50
SRB015-4FL	.015	0.38	.045	1.14	\$21.50
SRB020-4FL	.020	0.51	.060	1.52	\$21.50
SRB025-4FL	.025	0.64	.075	1.91	\$18.50
SRB030-4FL	.030	0.76	.090	2.28	\$18.50
SRB032-4FL	.032	0.81	.096	2.43	\$18.50
SRB040-4FL	.040	1.02	.120	3.18	\$18.50
SRB045-4FL	.045	1.14	.135	3.42	\$18.50
SRB050-4FL	.050	1.27	.150	3.80	\$18.50
SRB059-4FL	.059	1.49	.177	4.49	\$18.50
SRB060-4FL	.060	1.52	.180	4.57	\$18.50
SRB093-4FL	.093	2.36	.280	7.10	\$18.50
SRB125-4FL	.125	3.18	.375	9.52	\$14.50

2 flute flat end mills

2 Flute Flat End Mill tools are great for drilling, slotting, cutting or truing surfaces. **TOOL SIZE 1/8" X 1-1/2"**



2 FLUTE END MILLS | FLAT

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
SRF005	.005	0.13	.015	0.38	\$20.50
SRF006	.006	0.15	.018	0.45	\$20.50
SRF007	.007	0.17	.021	0.53	\$20.50
SRF008	.008	0.20	.024	0.60	\$20.50
SRF009	.009	0.23	.027	0.70	\$20.50
SRF010	.010	0.25	.030	0.76	\$19.50
SRF011	.011	0.28	.033	0.83	\$19.50
SRF012	.012	0.30	.036	0.91	\$19.50
SRF013	.013	0.33	.039	1.00	\$19.50
SRF014	.014	0.35	.042	1.06	\$19.50
SRF015	.015	0.38	.045	1.14	\$19.50
SRF016	.016	0.40	.048	1.21	\$19.50
SRF017	.017	0.43	.051	1.30	\$19.50
SRF018	.018	0.45	.054	1.37	\$19.50
SRF019	.019	0.48	.057	1.44	\$19.50
SRF020	.020	0.51	.060	1.52	\$19.50
SRF021	.021	0.53	.063	1.60	\$18.50

2 FLUTE END MILLS | FLAT

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
SRF022	.022	0.55	.066	1.67	\$18.50
SRF023	.023	0.58	.063	1.60	\$18.50
SRF024	.024	0.60	.072	1.82	\$18.50
SRF025	.025	0.64	.075	1.91	\$18.50
SRF030	.030	0.76	.090	2.28	\$16.50
SRF031	.031	0.78	.093	2.36	\$16.50
SRF032	.032	0.81	.096	2.43	\$16.50
SRF040	.040	1.02	.120	3.18	\$16.50
SRF045	.045	1.14	.135	3.42	\$16.50
SRF050	.050	1.27	.150	3.80	\$16.50
SRF055	.055	1.39	.165	4.19	\$16.50
SRF060	.060	1.52	.180	4.57	\$16.50
SRF062	.062	1.57	.186	4.35	\$16.50
SRF079	.079	2.00	.237	6.00	\$16.50
SRF093	.093	2.36	.280	7.10	\$16.50
SRF109	.109	2.76	.327	8.30	\$12.50
SRF125	.125	3.18	.375	9.52	\$12.50

2 flute ball end mills

2 Flute Ball End Mill tools are great for drilling, slotting, cutting or truing surfaces. **TOOL SIZE 1/8" X 1-1/2"**



2 FLUTE BALL END MILLS | BALL

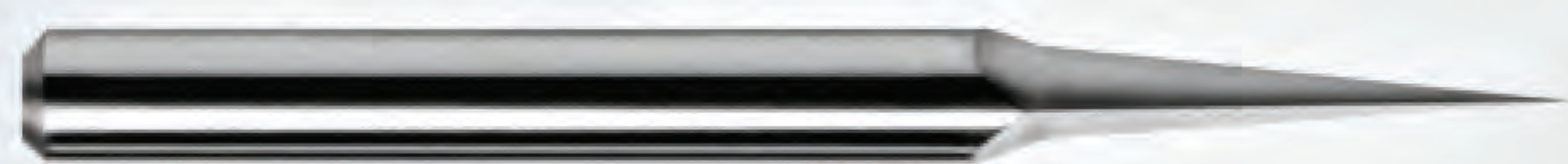
PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
SRB005	.005	0.13	.015	0.38	\$23.50
SRB006	.006	0.15	.018	0.45	\$23.50
SRB007	.007	0.17	.021	0.53	\$23.50
SRB008	.008	0.20	.024	0.60	\$23.50
SRB009	.009	0.23	.027	0.70	\$23.50
SRB010	.010	0.25	.030	0.76	\$21.50
SRB011	.011	0.28	.033	0.83	\$21.50
SRB012	.012	0.30	.036	0.91	\$21.50
SRB013	.013	0.33	.039	1.00	\$21.50
SRB014	.014	0.35	.042	1.06	\$21.50
SRB015	.015	0.38	.045	1.14	\$21.50
SRB016	.016	0.40	.048	1.21	\$21.50
SRB017	.017	0.43	.051	1.30	\$21.50
SRB018	.018	0.45	.054	1.37	\$21.50
SRB019	.019	0.48	.057	1.44	\$21.50
SRB020	.020	0.51	.060	1.52	\$21.50
SRB021	.021	0.53	.063	1.52	\$20.50

2 FLUTE END MILLS | BALL

PART NUMBER	TIP SIZE (IN)	TIP SIZE (MM)	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
SRB022	.022	0.55	.066	1.60	\$20.50
SRB023	.023	0.58	.063	1.67	\$20.50
SRB024	.024	0.60	.072	1.82	\$20.50
SRB025	.025	0.64	.075	1.91	\$20.50
SRB030	.030	0.76	.090	2.28	\$18.50
SRB031	.031	0.78	.093	2.36	\$18.50
SRB032	.032	0.81	.096	2.43	\$18.50
SRB040	.040	1.02	.120	3.18	\$18.50
SRB045	.045	1.14	.135	3.42	\$18.50
SRB050	.050	1.27	.150	3.80	\$18.50
SRB055	.055	1.39	.165	4.19	\$18.50
SRB060	.060	1.52	.180	4.57	\$18.50
SRB062	.062	1.57	.186	4.35	\$18.50
SRB079	.079	2.00	.237	6.00	\$18.50
SRB093	.093	2.36	.280	7.10	\$18.50
SRB109	.109	2.76	.327	8.30	\$14.50
SRB125	.125	3.18	.375	9.52	\$14.50

standard pyramid tools

The **Standard Pyramid** tool is a three-sided tool shaped like its name implies. It is used in applications where additional tool strength is needed. Unlike the Profile tool which only has one cutting edge, all three sides of the Pyramid cut as it rotates. These tools work well for milling materials like brass, aluminum, and plastics. We stock it in **Micrograin Carbide** and **High Speed Steel**. High speed steel may not chip as easy as the carbide, but it will dull much faster. **TOOL SIZE 1/8" X 1-1/2"**



PYRAMID TOOLS | MICROGRAIN CARBIDE

PART NUMBER	INCLUDED ANGLE	SIDE ANGLE	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
815-PY6	6°	3°	.5900	15	\$20.00
815-PY10	10°	5°	.5500	14	\$20.00
815-PY12	12°	6°	.4700	12	\$20.00
815-PY15	15°	7.5°	.4500	11.5	\$16.50
815-PY20	20°	10°	.3150	8	\$12.50
815-PY30	30°	15°	.1970	5	\$12.50
815-PY40	40°	20°	.1690	4.3	\$12.50
815-PY50	50°	25°	.1380	3.5	\$12.50
815-PY60	60°	30°	.1180	3	\$12.50

PYRAMID TOOLS | HIGH SPEED STEEL

PART NUMBER	INCLUDED ANGLE	SIDE ANGLE	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
815-PY10HS	10°	5°	.5500	14	\$20.00
815-PY12HS	12°	6°	.4700	12	\$20.00
815-PY15HS	15°	7.5°	.4500	11.5	\$18.00
815-PY20HS	20°	10°	.3150	8	\$14.50
815-PY30HS	30°	15°	.1970	5	\$14.50
815-PY40HS	40°	20°	.1690	4.3	\$14.50
815-PY50HS	50°	25°	.1380	3.5	\$14.50
815-PY60HS	60°	30°	.1180	3	\$14.50

Please specify tip size when ordering: .001, .002, .003, .004, .005, .007, .010, .012, .015, .020, and up to .100

spiral pyramid tools

The **Spiral Pyramid** was designed for better chip removal. The spiral flutes help to pull out the material while milling. We recommend using cutting oil for best results with our tools.



1/8" X 1-1/2" SPIRAL PYRAMID TOOLS

PART NUMBER	INCLUDED ANGLE	SIDE ANGLE	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
815-SPY6C	6°	3°	.5900	15	\$20.00
815-SPY8C	8°	4°	.5900	15	\$20.00
815-SPY10C	10°	5°	.5900	15	\$20.00
815-SPY12C	12°	6°	.5900	15	\$20.00
815-SPY15C	15°	7.5°	.5900	15	\$16.00

Please specify tip size when ordering: .001, .002, .003, .004, .005, .007, .010, .012, .015, .020, and up to .100

TIP SIZES

Our tip sizes are all in inches. Use the conversion chart below to help you select the tip size.

INCH	MM
0.001	0.025
0.002	0.051
0.003	0.078
0.004	0.102
0.005	0.127
0.006	0.152
0.007	0.178
0.008	0.203
0.009	0.229
0.010	0.254
0.020	0.508
0.030	0.762
0.040	1.016
0.050	1.270
0.060	1.524
0.070	1.778
0.080	2.032
0.090	2.286
0.100	2.540

INCHES TO MILLIMETERS CONVERSION

engraving tools

Diamond Drag Engraving tools are designed to scratch the surface of the part being engraved. When engraving soft material, such as gold or silver, use the 140°, for brass and aluminum use 120°. **Carbide Engraving V-Bits** are custom made to meet all special engraving requirements from hard metals to soft plastics. For most metals, industry standards call for using a wider angle (80inc or 90inc). For softer materials like plastic, acrylic, wood, etc, the 30inc or 60inc.



DIAMOND DRAG TOOLS

PART NUMBER	TOOL SIZE (IN)	ANGLE	PRICE EACH
818-DG90	1/8" x 1-1/8"	90°	\$16.50
818-DG120	1/8" x 1-1/8"	120°	\$16.50
818-DG130	1/8" x 1-1/8"	130°	\$16.50
818-DG140	1/8" x 1-1/8"	140°	\$16.50
420-DG90	1/4" x 2"	90°	\$19.50
420-DG120	1/4" x 2"	120°	\$19.50
420-DG130	1/4" x 2"	130°	\$19.50
420-DG140	1/4" x 2"	140°	\$19.50
845-DG90	1/8" x 4-1/2"	90°	\$17.75
845-DG120	1/8" x 4-1/2"	120°	\$17.75
845-DG130	1/8" x 4-1/2"	130°	\$17.75
845-DG140	1/8" x 4-1/2"	140°	\$17.75

CARBIDE ENGRAVING V-BITS

PART NUMBER	TOOL SIZE (IN)	INCLUDED ANGLE	SIDE ANGLE	PRICE EACH SINGLE-END	PRICE EACH DOUBLE-END
815-HF30	1/8" x 1-1/2"*	30°	15°	\$10.50	N/A
815-HF40	1/8" x 1-1/2"*	40°	20°	\$10.50	N/A
815-HF45	1/8" x 1-1/2"*	45°	22.5°	\$10.50	N/A
815-HF50	1/8" x 1-1/2"*	50°	25°	\$10.50	N/A
815-HF60	1/8" x 1-1/2"*	60°	30°	\$10.50	N/A
815-HF70	1/8" x 1-1/2"*	70°	35°	\$10.50	N/A
815-HF80	1/8" x 1-1/2"*	80°	40°	\$10.50	N/A
815-HF90	1/8" x 1-1/2"*	90°	45°	\$10.50	N/A
420-PR30	1/4" x 2"	30°	15°	\$18.00	\$26.00
420-HF40	1/4" x 2"	40°	20°	\$16.50	\$24.50
420-HF45	1/4" x 2"	45°	22.5°	\$16.50	\$24.50
420-HF50	1/4" x 2"	50°	25°	\$16.50	\$24.00
420-HF60	1/4" x 2"	60°	30°	\$16.50	\$24.00
420-HF70	1/4" x 2"	70°	35°	\$16.50	\$24.00
420-HF80	1/4" x 2"	80°	40°	\$16.50	\$24.00
420-HF90	1/4" x 2"	90°	45°	\$16.50	\$24.00

*All 1-1/2" Carbide Engraving Tools also available in 2" tool length.

profile tools

The **Profile** tool was one of the first tools used for milling soft materials, the steep angles will allow you to 'plunge' deeper into your part or mold without losing too much detail. The single lip cutting edge cuts very clean in soft materials. They are available in various angles and tip sizes and can also be resharpened. **TOOL SIZE 1/8" X 1-1/2"**

WE ONLY OFFER PROFILE TOOLS IN SOLID MICROGRAIN CARBIDE.



1/8" X 1-1/2" PROFILE TOOLS

PART NUMBER	INCLUDED ANGLE	SIDE ANGLE	CUT LENGTH (IN)	CUT LENGTH (MM)	PRICE EACH
815-PR10	10°	5°	.3500	9	\$25.00
815-PR12	12°	6°	.3500	9	\$25.00
815-PR15	15°	7.5°	.3900	10	\$21.00
815-PR20	20°	10°	.3300	8.5	\$17.00
815-PR30	30°	15°	.2100	5.5	\$10.50
815-PR40	40°	20°	.1500	4	\$10.50

TIP SIZES

Our tip sizes are all in inches. Use the conversion chart below to help you select the tip size.

INCH	MM
0.001	0.025
0.002	0.051
0.003	0.078
0.004	0.102
0.005	0.127
0.006	0.152
0.007	0.178
0.008	0.203
0.009	0.229
0.010	0.254
0.020	0.508
0.030	0.762
0.040	1.016
0.050	1.270
0.060	1.524
0.070	1.778
0.080	2.032
0.090	2.286
0.100	2.540

INCHES TO MILLIMETERS CONVERSION

wood cnc tool kits



4 PIECE SIGNMAKING CNC ROUTER TOOL KIT | Price \$112.50

Tool Kit Part #: 250-SIGNKIT

PART NUMBER	DESCRIPTION
420-DNC062	1/16" DownCut - Perfect for Fine Detail - 3/16" LOC
420-DNC125LR	1/8" DownCut - Great for Cutting Your Work Pieces Out - 1" LOC
425-CR30.005	30 degree V-Bit .005 - A Popular Tool for Fine Engraving
V-1550	Whiteside V-Groove 60 degree 1/2" Cut Dia - Great for V Groove Engraving



8 PIECE V-CARVE CNC ROUTER TOOL KIT | Price \$199.50

Tool Kit Part #: 250-VcarveKit

PART NUMBER	DESCRIPTION
V-1501	Whiteside V-Groove 90 degree 3/8" Cut Dia / Good For cutting V-grooves and making chamfers
V-1502	Whiteside V-Groove 90 degree 1/2" Cut Dia / Good For cutting V-grooves and making chamfers
V-1550	Whiteside V-Groove 60 degree 1/2" Cut Dia / Great for V-groove engraving
SC50	Whiteside 22 degree Carving Liner - Carving liner for intricate and fine detail
425-CR30.005	30 degree V-Bit .005 - A popular tool for fine engraving
425-CR30.010	30 degree V-Bit .010 - A popular tool for wide line engraving
425-CR45.005	45 degree V-Bit - Great for V-groove or fine line engraving
425-CR120	120 degree V-Bit - Great for V-groove or wide line engraving



8 PIECE PREMIUM CNC ROUTER TOOL KIT | Price \$259.50

Tool Kit Part #: 250-PREMKIT

PART NUMBER	DESCRIPTION
420-DNC125LR	1/8" DownCut - Great for cutting your work pieces out - LOC 1"
425-CM125	1/8" Compression Bit - LOC 5/8" - They work well for cutting MDF, Plywood or laminated material
425-CR30.005	30 degree V-Bit .005 - A popular tool for fine engraving
V-1550	Whiteside V-Groove 60 degree 1/2 Cut Dia - Great for V groove engraving
SRB4-250UP	1/4" Up-Cut Ball Nose - Great for 2D/3D carving and sign making on hard & soft woods
SRF4-125UP	1/8" Up-Cut Flat End - Great for carving and sign making on hard & soft woods
4TEB12-032-3FL	3 Flute 1/32" Ball 6.2 Degree Taper - Great for 2D/3D Carving
W-6210	Whiteside CNC Surfacing Bit 1" width - 3 wings make a fast, clean cut on your project material



6 PIECE WHITESIDE 706 CNC LETTERING SET - 1/4" SH | Price \$175.00

Tool Kit Part #: W-706

PART NUMBER	DESCRIPTION
W-1403	Whiteside 1403 - 3/16" Radius - 1/4" Shank Core Box
W-1404	Whiteside 1404 - 1/4" Radius - 1/4" Shank Round Nose
V-1550	Whiteside 1550 1/2" Inch Diameter Carbide V-Groove Router Bit
W-1572	Whiteside 1572 - 1/4" Radius Point Roundover
W-2051	Whiteside 2051 - 3/16" Plunge RoundOver
W-RU2075CN	Whiteside RU2075CN Upcut Spiral Cove Nose Router Bit

engraving cutter tool kits



ENGRAVING CUTTER TOOL KITS

PART NUMBER	DESCRIPTION	PRICE
5P-815-HF30	30 degree Tool Kit for Engraving Plastic or Wood - 1/8" shank with 5 different tip diameters	\$47.50
5P-815-HF60	60 degree Tool Kit for Engraving Plastic or Wood - 1/8" shank with 5 different tip diameters	\$47.50
5P-815-HF80	80 degree Tool Kit for Engraving Metals - 1/8" shank 5 different tip diameter	\$47.50
5P-420-HF60	60 degree Tool Kit for Engraving Plastic or Wood - 1/4" shank 5 different tip diameters	\$74.50
5P-420-HF80	80 degree Tool Kit for Engraving Metals - 1/4" shank 5 different tip diameters	\$74.50



ENGRAVING/DIAMOND DRAG TOOL KIT FOR METALS/ACRYLIC | \$275.99

Tool Kit Part #: 250-DragKit

PART NUMBER	DESCRIPTION
250-CNCdrag	Drag Widget Works - Spring Loaded Diamond Drag Engraving Bit with 1/4" Shank - With 120 degree drag bit
425-UP125	1/8" - 'O' Flute CNC Spiral UpCut Plastic/Alum CNC Bit - Great for cutting your work plastic/Alum pieces out
425-UP250	1/4" - 'O' Flute CNC Spiral UpCut Plastic/Alum CNC Bit - Great for cutting your work plastic/Alum pieces out
SRF43-250AM-3/8	1/4" - Aluminum Series 3 Flute Square End Mill - Great for cutting your Alum work pieces out - 3/8" LOC
425-CR45.005	Engraving Router Bit 45 degree .005 - A popular tool for fine engraving on plastic or metals

aluminum/brass tooling line

The **Aluminum Series** tools feature 3 flutes and a 45 degree high helix which make them ideal for finishing due to their high shear angle and cutting aggressiveness.

Our **General Purpose 3 Flute End Mills** are perfect for milling aluminum, brass and other non-ferrous materials. These tools are coated with our proprietary high performance Astra Coating which allows higher speed & feed rates as well as extended tool life & increased lubricity.



ALUMINUM SERIES 3 FLUTE TOOLS

1/8 SHANK

PART NUMBER	DESCRIPTION	PRICE
SRF062-3FL-AM	1/16" Square End Mill - 1/4" LOC	\$24.50
SRF125-3FL-AM-5/16	1/8" Square End Mill - 5/16" LOC	\$22.50
SRF125-3FL-AM	1/8" Square End Mill - 3/4" LOC	\$24.50
SRB125-3FL-AM	1/8" Ball End Mill - 3/8" LOC	\$26.50

1/4 SHANK

PART NUMBER	DESCRIPTION	PRICE
SRF43-250AM	1/4" Square End Mill - 1" LOC	\$32.50
SRF43-250AM-3/8	1/4" Square End Mill - 3/8" LOC	\$30.50
SRB43-250AM	1/4" Ball End Mill - 3/4" LOC	\$34.50
SRF43-250CB	1/4" Chip Breaker Rougher 3 Flute - 1-1/8" LOC	\$42.50

1/2 SHANK

PART NUMBER	DESCRIPTION	PRICE
SRF3-500AM	1/2" Square End Mill - 1-1/4" LOC	\$43.95
SRB3-500AM	1/2" Ball End Mill - 1" LOC	\$45.50
SRF3-500CB	1/2" Chip Breaker Rougher - 1-1/4" LOC	\$65.50



GENERAL PURPOSE 3 FLUTE TOOLS FOR NON-FERROUS MATERIALS

1/8 SHANK | SQUARE END

PART NUMBER	DESCRIPTION	PRICE
SRF015-3FL	3 Flute .015 Square End Mill	\$22.50
SRF032-3FL	3 Flute .032 Square End Mill	\$18.50
SRF040-3FL	3 Flute .040 Square End Mill	\$18.50
SRF062-3FL	3 Flute .062 Square End Mill	\$18.50
SRF125-3FL	3 Flute .125 Square End Mill	\$14.50

1/8 SHANK | BALL END

PART NUMBER	DESCRIPTION	PRICE
SRB015-3FL	3 Flute .015 Ball End Mill	\$25.50
SRB032-3FL	3 Flute .032 Ball End Mill	\$21.50
SRB040-3FL	3 Flute .040 Ball End Mill	\$21.50
SRB062-3FL	3 Flute .062 Ball End Mill	\$21.50
SRB125-3FL	3 Flute .125 Ball End Mill	\$17.50

1/4 SHANK

PART NUMBER	DESCRIPTION	PRICE
SRF43-250GP	3FL Square 1/4" - 1" LOC	\$28.50
SRB43-250GP	3FL Ball End 1/4" - 3/4" LOC	\$30.50

1/2 SHANK

PART NUMBER	DESCRIPTION	PRICE
SRF3-500GP	1/2" 3 Flute Square End Mill - 1" LOC	\$39.95
SRB3-500GP	1/2" 3 Flute Ball End Mill - 1" LOC	\$41.50

metal/steel series tooling line

Our 4 & 5 Flute designs provides a significant lift in tool life and productivity. It's high flute count, and our high performance coating make it excel in tough materials like steels, high temperature alloys, and titanium. Excellent performance in light profiling and finishing applications.



4-5 FLUTE VARIABLE PITCH TOOLS

PART NUMBER	DESCRIPTION	PRICE
SRF125HS-4FL	1/8" Hard Steel Series 4 Flute Square - 1/2" LOC	\$29.50
SRF4-250HS	1/4" Hard Steel Series 4 Flute Square - 1/2" LOC	\$39.50
XL14-4150-4FL	1/4" x 4" SQ - 4 Flute Extra Long End Mill - 1-1/2" LOC	\$29.50
SRF5-500HS	1/2" Hard Steel Series 5 Flute Variable Pitch - 1-1/4" LOC	\$69.50





SERVING OUR CUSTOMERS FOR OVER 30 YEARS,
WITH AFFORDABLE HIGH QUALITY TOOLS & FAST SERVICE.



BITS & BITS COMPANY INC. 6129 Aviation Way // P.O. BOX 285 // Silverton, Oregon 97381 USA
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