



>> SPIRAL FLUTE <<

RED RING FOR HARD MATERIALS



Order Number	Description	QTY	CLEARANCE PRICE
112-5BA1110	7/16X14 UNC RED BND - SPIRAL FLUTE	1	\$16.33
112-5BL0480	NO10X32 UNF RED BND - SPIRAL FLUTE	4	\$8.91
112-5EA2200	M22 X 2.5 RED BAND - SPIRAL FLUTE	1	\$65.93

>> SPIRAL POINT <<

RED RING FOR HARD MATERIALS



112-5BF1110	7/16X14 UNC RED BND - SPIRAL POINT	1	\$13.97
112-5BF1430	9/16X12 UNC RED BND - SPIRAL POINT	1	\$24.81
112-5BS0480	NO10X32 UNF RED BND - SPIRAL POINT	3	\$8.27
112-5BS0790	5/16X24 UNF RED BND - SPIRAL POINT	1	\$10.28

>> SPIRAL FLUTE <<

YELLOW RING FOR SOFT MATERIALS



112-5BC0420	8 X32 UNC YELLOW BAND - SPIRAL FLUTE	7	\$6.93
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>> SPIRAL POINT <<

BLUE RING FOR TOUGH MATERIALS



112-5BG1594	5/8X11 UNC BLUE BAND - SPIRAL POINT	14	\$19.04
112-5BT0484	NO10X32 UNF BLUE BND - SPIRAL POINT	15	\$6.34
112-5BT2544	1 X 12 UNF BLUE BAND - SPIRAL POINT	3	\$52.90

>> SPIRAL FLUTE <<

BLUE RING FOR TOUGH MATERIALS



112-5BB0354	NO6X32 UNC BLUE BAND - SPIRAL FLUTE	24	\$6.77
112-5BB0424	NO8X32 UNC BLUE BAND - SPIRAL FLUTE	10	\$6.93
112-5BB0484	NO10X24 UNC BLUE BND - SPIRAL FLUTE	15	\$7.30
112-5BB0794	5/16X18 UNC BLUE BND - SPIRAL FLUTE	4	\$9.16
112-5BB1114	7/16X14 UNC BLUE BND - SPIRAL FLUTE	10	\$13.78
112-5BM0354	NO6X40 UNF BLUE BAND - SPIRAL FLUTE	10	\$7.34
112-5BM0424	NO8X36 UNF BLUE BAND - SPIRAL FLUTE	4	\$7.34
112-5BM0644	1/4X28 UNF BLUE BAND - SPIRAL FLUTE	11	\$7.99
112-5BM0794	5/16X24 UNF BLUE BND - SPIRAL FLUTE	3	\$9.37
112-5BM0954	3/8X24 UNF BLUE BAND - SPIRAL FLUTE	1	\$9.92



Spiral Point



Order Number	Description	QTY	CLEARANCE PRICE
149-119-717	1 - 8 3FL SP/PT - UNC	1	\$92.17
149-119-727	5/16-24 2FL SP/PT - UNF	1	\$7.56
149-119-755	M4.5X.75 3FL SP/PT - METRIC	1	\$8.42
149-119-761	M10X1.25 3FL SP/PT - METRIC	1	\$9.72
149-119-763	M12X1.25 3FL SP/PT - METRIC	1	\$14.58

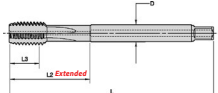
Spiral Flute



149-119-819	5/16-24 3FL SP/FLUTE - UNF	2	\$9.79
149-119-820	3/8-24 3FL SP/FLUTE - UNF	1	\$11.34



REDUCED NECK MODIFIED STANDARD



Order Number	Description	QTY	CLEARANCE PRICE
122-25836RED	6-32 H3 2FL GP/DIN LENGTH TAP	1	\$6.23
122-25839RED	8-32 H3 3FL GP/DIN LENGTH TAP	3	\$6.23
122-25842RED	10-24 H3 3FL GP/DIN LENGTH TAP	1	\$6.23
122-25872RED	M10X1.5 D6 3FL GP/DIN LENGTH TAP	5	\$15.29



122-C97085	NO.8-32 HS G H3 2F PL SPPT BLUE DIA TAP	2	\$9.44
122-C97139	1/4-28 HS G H3 2F PL SPPT BLUE DIA TAP	2	\$11.66
122-C97176	3/8-16 HS G H3 3F PL SPPT BLUE DIA TAP	1	\$14.81
122-C97181	3/8-24 HS G H3 3F PL SPPT BLUE DIA TAP	6	\$14.81



Order Number	Description	QTY	CLEARANCE PRICE
133-5045-22140	1/2X1/2X5/8X2-1/2 5FL TIALN SUPREME ENDMILL	1	\$39.00

CONTOUR360

2 Flute Square - Standard Length



Order Number	Description	QTY	CLEARANCE PRICE
113-NC42024	3/8 X 3/8 X 7/8 X 2-1/2	1	\$15.45

2 Flute TiAlN Coated - Square Standard Length



113-NC42020A	5/16 X 5/16 X 7/8 X 2-1/2	1	\$18.71
113-NC42036A	3/4 X 3/4 X 1-1/2 X 4	1	\$87.41

3 Flute TiCN Coated Square End Mill for Aluminum



113-NC43050	1/8 X 1/8 X 1/4 X 1-1/2	2	\$9.08
113-NC43070	5/16 X 5/16 X 13/16 X 2-1/2	1	\$20.00

4 Flute Ballnose - Solid Carbide End Mill



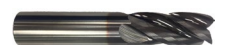
113-NC64008	1/8 X 1/8 X 1/2 X 1-1/2	1	\$5.00
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4 Flute TiAlN Coated Ballnose Solid Carbide End Mill



113-NC64020A	5/16 X 5/16 X 7/8 X 2-1/2	1	\$20.00
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4 Flute Corner Radius TiCN, Standard Length W = WELDON FLAT



113-NCM4133W-MOD	1X1X1-1/2X4 CORNER RAD MODIFIED SHANK	2	\$129.90
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4 Flute Corner Radius Stub Length



113-NCM1020	5/16 X 5/16 X 7/16 X 2 .015-.020R	2	\$19.68
113-NCM1028	7/16 X 7/16 X 9/16 X 2-1/2 .015-.020R	2	\$30.45
113-NCM1034	5/8 X 5/8 X 3/4 X 3 .030-.035R	2	\$58.44
113-NCM1040	1 X 1 X 1-1/4 X 3 .030-.035R	1	\$142.86

4 Flute Ball End, TiCN, Standard Length



113-NCM6034	5/8 X 5/8 X 1-5/8 X 3-1/2	1	\$64.83
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4 Flute Ball End, Stub Length



113-NCM2011	5/32 4FL B/N STUB MULTIMILL	3	\$9.00
113-NCM2012	3/16 4FL B/N STUB MULTIMILL	4	\$10.92



Order Number	Description	QTY	CLEARANCE PRICE
133-2000-22340	3/8 3/8 1-1/8 3 2FL UNCOATED	118	\$22.71
133-2000-22380	1/2 1/2 2 4 2FL UNCOATED	10	\$36.46
133-2000-22395	5/8 5/8 1-1/4 3-1/2 2FL UNCOATED	4	\$51.50
133-2000-22415	3/4 3/4 1-1/2 4 2FL UNCOATED	32	\$75.23
133-2000-22660	1/32 1/8 3/32 1-1/2 TiCN	1	\$10.17
133-2000-22955	1/4 1/4 1-1/8 3 2FL TIALN SUPREME	116	\$20.59
133-2000-22960	5/16 5/16 1/2 2 2FL TIALN SUPREME	188	\$16.54
133-2000-22965	5/16 5/16 13/16 2-1/2 2FL TIALN SUPREME	155	\$18.75
133-2000-22985	3/8 3/8 1-1/8 3 2FL TIALN SUPREME	179	\$29.14
133-2000-23025	1/2 1/2 2 4 2FL TIALN SUPREME	43	\$46.67



133-2045-20025	5/16 5/16 1-3/8 3 2FL UNCOATED	2	\$37.29
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133-2050-23215	5/8 5/8 2-1/4 5 2FL BN UNCOATED	2	\$91.36
133-2050-23720	5/8 5/8 1-1/4 3-1/2 2FL BN TIALN SUPREME	1	\$68.22



133-3000-23875	5/16 5/16 1-5/8 4 3FL UNCOATED	11	\$21.90
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133-4035-21385	7/16 7/16 5/8 2-1/2 4FL TIALN SUPREME	1	\$49.91
133-4035-21415	3/4 3/4 1 3 4FL TIALN SUPREME	2	\$107.45



133-4050-26350	1 1 3 6 4FL BN UNCOATED	2	\$237.05
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**2 Flute for Aluminum - 250 Series**

Order Number	Description	QTY	CLEARANCE PRICE
172-250-31220-C5	5/16 X 5/16 X 1-1/4 X 3-1/2 2FL SEEM AL	1	<b>\$43.42</b>
172-250-31232-C5	5/16 X 5/16 X 2-1/8 X 4 2FL SEEM ALUM Z	3	<b>\$45.37</b>
172-250-37508BN	3/8 X 3/8 X 1/2 X 2-1/2 2FL SEEM ALUM B-UNCOATED	2	<b>\$35.55</b>
172-250-37508BN-C5	3/8 X 3/8 X 1/2 X 2-1/2 2FL SEEM ALUM BALLNOSE-ZRN	2	<b>\$40.55</b>

**2 Flute Variable Helix for Aluminum - 251 Series**

172-251S2500-C5	1/4 X 1/4 X 3/8 X 2-1/2 2FLV-SERIES STU	1	<b>\$19.93</b>
172-251S4375-C5	7/16 X 7/16 X 9/16 X 2-3/4 2 FLT STUB SE	1	<b>\$47.08</b>
172-251S7500-C5	3/4 X 3/4 X 1 X 4 2 FLT STUB SE V-SERIES	1	<b>\$125.58</b>

**3 Flute for Aluminum - 350 Series**

172-350-75016NS40	3/4 X 3/4 X 1 X 5 3FL SEEM ALUM NECKED	1	<b>\$71.97</b>
172-350-75024-C5	3/4 X 3/4 X 1-1/2 X 4 3FL SE ALUM ZRN	4	<b>\$133.99</b>
172-350-75032	3/4 X 3/4 X 2 X 5 3FL SEEM ALUM	1	<b>\$149.00</b>

**4 Flute Variable Helix with Corner Radius for Steel - 436 Series**

172-436S2500-C10	1/4X3/8 VH 4FL S/C COATED E/M	1	<b>\$16.89</b>
172-436S3125-C10	5/16X7/16 VH 4FL S/C COATED E/M	1	<b>\$20.67</b>
172-436-3125-C10	5/16X13/16 VH 4FL S/C COATED E/M	1	<b>\$25.71</b>
172-436-3750-C10	3/8X1 VH 4FL S/C COATED E/M	1	<b>\$31.79</b>
172-436-7500-C10	3/4X1-5/8 VH 4FL S/C COATED E/M	2	<b>\$145.79</b>
172-436S4375-C11	7/16 X 7/16 X 9/16 X 2-1/2 4FL SE V-SER	3	<b>\$32.14</b>
172-436S5000-C11	1/2 X 1/2 X 5/8 X 2-1/2 4FL SEEM V-SERI	2	<b>\$43.19</b>
172-436-2500BN-C10	1/4X3/4 B/N H.V. 3FL CARB E/MILL	1	<b>\$19.50</b>
172-436-5000BN-C11	1/2 X 1/2 X 1-1/4 X 3 4FL SEEM V-SERIES	2	<b>\$65.73</b>

**4 Flute Variable Helix with Corner Chamfer for Steel - 446 Series**

172-446S2500-C10	1/4X3/8X.010 VHC 4FL S/C COATED E/M	1	<b>\$16.89</b>
172-446-2500-C10	1/4X3/4X.010 VHC 4FL S/C COATED E/M	1	<b>\$20.02</b>
172-446S3125-C10	5/16X7/16X.010 VHC 4FL S/C COATED E/M	1	<b>\$20.57</b>
172-446-3125-C10	5/16X13/16X.010 VHC 4FL S/C COATED E/M	1	<b>\$25.71</b>
172-446S3750-C10	3/8X1/2X.015 VHC 4FL S/C COATED E/M	1	<b>\$26.49</b>
172-446S5000-C10	1/2X5/8X.015 VHC 4FL S/C COATED E/M	1	<b>\$43.19</b>
172-446-5000-C10	1/2X1-1/4X.015 VHC 4FL S/C COATED E/M	2	<b>\$52.72</b>
172-446S7500-C10	3/4X1X.020 VHC 4FL S/C COATED E/M	1	<b>\$119.32</b>
172-446-7500-C10	3/4X1-5/8X.020 VHC 4FL S/C COATED E/M	1	<b>\$145.79</b>
172-446S2500-C11	1/4 X 1/4 X 3/8 X 2 4FL SEEM V-SERIES S	1	<b>\$16.89</b>
172-446S3125-C11	5/16 X 5/16 X 7/16 X 2 4FL SEEM V-SERIE	1	<b>\$20.67</b>
172-446-3125-C11	5/16 X 5/16 X 13/16 X 2-1/2 4FL SEEM V	1	<b>\$25.71</b>
172-446S3750-C11	3/8 X 3/8 X 1/2 X 2 4FL SEEM V-SERIES S	1	<b>\$26.49</b>
172-446S4375-C11	7/16 X 7/16 X 9/16 X 2-1/2 4FL SE V-SER	2	<b>\$32.14</b>
172-446-4375-C11	7/16 X 7/16 X 1 X 2-3/4 4FL SE V-SERIES	1	<b>\$39.94</b>
172-446S5000-C11	1/2 X 1/2 X 5/8 X 2-1/2 4FL SEEM V-SERI	1	<b>\$43.19</b>
172-446-5000-C11	1/2 X 1/2 X 1-1/4 X 3 4FL SEEM V-SERIES	1	<b>\$52.72</b>
172-446S7500-C11	3/4 X 3/4 X 1 X 3 4FL V-SERIES STUB SEE	2	<b>\$119.32</b>



Order Number	Description	QTY	CLEARANCE PRICE
112-5103-1009	9/64" KOMBAT JBR DRILL	12	<b>\$0.78</b>
112-5103-1017	17/64" KOMBAT JBR DRILL	18	<b>\$1.76</b>
112-5103-1026	13/32" KOMBAT JBR DRILL	8	<b>\$4.63</b>

**HSS THROWAWAY END MILLS**

112-5380-1014	7/32 STD THROWAWAY ENDMILL	5	<b>\$3.50</b>
112-5380-3014	7/32 STD THROWAWAY TIN ENDMILL	10	<b>\$4.50</b>
112-5381-1014	7/32" THROWAWAY CUTTER-LONG	1	<b>\$3.00</b>



Order Number	Description	QTY	CLEARANCE PRICE
121-159-6253-27	END MILL SC TIN 5/16 2F 159 CO SE - METAL REMOVAL	4	<b>\$12.00</b>
163-209-238-2	5/16X7/8X5/16X2-1/2 2FL SQUARE ENDMILL, POWER	2	<b>\$12.00</b>
182-90092	5944T 5/16 X 5/16 2FL SE SC ALTIN	1	<b>\$12.00</b>

**2 Flute Square & Ball End Aluminum & Non-Ferrous, Var-Helix**

Order Number	Description	QTY	CLEARANCE PRICE
103-V2080304S	VIPER 1/8, 2 FLT, 3/16 LOC, 1/2 LBS, 1-1/2 OAL, STEALTH COATING	3	<b>\$10.90</b>
103-V2321011S	VIPER 1/2, 2 FLT, 5/8 LOC, 1-3/8 LBS, 3 OAL, STEALTH COATING	6	<b>\$45.58</b>
103-V24012S	VIPER 5/8, 2 FLT, 3/4 LOC, 3-1/2 OAL, STEALTH	3	<b>\$73.10</b>
103-BV24012S	BALL VIPER 5/8, 2 FLT, 3/4 LOC, 3-1/2 OAL, STEALTH COATING	1	<b>\$90.30</b>

**3 Flute Square End**

Aluminum &amp; Non-Ferrous, Var-Helix



103-V30501	VIPER 5/64 DIA, 3 FLT, 7/64 LOC, 1/8 SHK, 1-1/2 OAL	3	<b>\$21.60</b>
103-V32008S	VIPER 5/16, 3 FLT, 1/2 LOC, 2 OAL, STEALTH COATING	2	<b>\$24.37</b>
103-V32013S	VIPER 5/16, 3 FLT, 13/16 LOC, 2-1/2 OAL, STEALTH COATING	1	<b>\$32.73</b>

**4 Flute Square End**

General Purpose Steel, Var-Helix



103-R61606RC	RAPTOR 1/4, 3/6 FLT, 3/8 LOC, .015-.020 RAD, 2 OAL, ALTIN COATING	2	<b>\$15.77</b>
103-R62408C	RAPTOR 3/8, 3/6 FLT, 1/2 LOC, 2 OAL, ALTIN COATING	1	<b>\$23.79</b>
103-R62408RC	RAPTOR 3/8, 3/6 FLT, 1/2 LOC, .015-.020 RAD, 2 OAL, ALTIN COATING	8	<b>\$26.09</b>
103-R63210RC	RAPTOR 1/2, 3/6 FLT, 5/8 LOC, .025-.030 RAD, 3 OAL, ALTIN COATING	6	<b>\$43.86</b>
103-R63216RC	RAPTOR 1/2, 3/6 FLT, 1 LOC, .025-.030 RAD, 3 OAL, ALTIN COATING	2	<b>\$48.45</b>
103-R63216RCG	RAPTOR 1/2, 3/6 FLT, 1 LOC, 3 OAL, R025, CG, ALTIN COATING	1	<b>\$38.99</b>
103-R63220RC	RAPTOR 1/2, 3/6 FLT, 1-1/4 LOC, .025-.030 RAD, 3 OAL, ALTIN COATING	2	<b>\$49.88</b>

**3/8 Flute Square End**

Contouring Exotic Materials, Var-Helix



103-DVH405010RC	DVH 5/64 DIA, 4 FLT, 7/64 LOC, .005 RAD, 3/16 SHK, 2 OAL, ALTIN COATING	4	<b>\$21.00</b>
103-DVH43210RC	DVH 1/2, 4 FLT, 5/8 LOC, .025-.030 RAD, 3 OAL, ALTIN COATING	2	<b>\$43.86</b>

**Diamond Back Roughers**

Heavy Aluminum Roughing, Var-Helix



103-DR3321011R030S	DBACK ROUGHER 1/2, 3 FLT, 5/8 LOC, .030 RAD, 1-3/8 LBS, 3 OAL, STEALTH COATING	1	<b>\$61.35</b>
103-DR34816R030S	DBACK ROUGHER 3/4, 3 FLT, 1 LOC, .030 RAD, 4 OAL, STEALTH COATING	1	<b>\$123.26</b>

**3 FLUTE ALU-ROUGHER W/ CHIPBREAKERS**

Order Number	Description	QTY	CLEARANCE PRICE
210-CID-AL3-CB4375	ENDMILL-ALU-3FL-7/16"	4	<b>\$40.00</b>
210-CID-AL3-CB6250	ENDMILL-ALU-3FL-5/8"	1	<b>\$84.00</b>
210-CID-AL3-CB1000-E	1" CID 3FL UNCOATED W/ CHIPBREAKER ECC REL	4	<b>\$125.00</b>

**3 FLUTES SQUARE ALTIN COATED**

210-CID-SS1000	ENDMILL-SQ-3FL-TIALN-1"	1	<b>\$111.50</b>
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**3 FLUTE BALL NOSE TiCN COATED**

210-CID-TC-BSS1250	ENDMILL-BALL-3FL-TICN COATED-1/8"	1	<b>\$7.38</b>
210-CID-TC-BSS4375	ENDMILL-BALL-3FL-TICN COATED-7/16"	10	<b>\$30.72</b>
210-CID-TC-BSS6250	ENDMILL-BALL-3FL-TICN COATED-5/8"	7	<b>\$66.77</b>
210-CID-TC-BSS1000	ENDMILL-BALL-3FL-TICN COATED-1"	6	<b>\$134.20</b>

**4 FLUTE BALL NOSE-UNCOATED**

210-CID-B2500	ENDMILL-BALL-4FL-1/4 (4050-26230)"	2	<b>\$10.95</b>
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**4 FLUTE ROUGHER, FINE FITCH, ALTIN COATED**

210-CID-RO-STD1000	ROUGHER-4FL-TIALN-1 (4035-21425)"	1	<b>\$179.98</b>
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**5 FLUTES SQUARE-ALTIN COATED**

210-CID-SHH1250	ENDMILL-SQ-5FL-TIALN-1/8 (5045-22035)"	1	<b>\$7.58</b>
210-CID-SHH3125	ENDMILL-SQ-5FL-TIALN-5/16 (5045-22090)"	1	<b>\$16.58</b>

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