



>> 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	13	\$19.04
112-5BT0484	NO10X32 UNF BLUE BAND - SPIRAL POINT	10	\$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	13	\$7.30
112-5BB0794	5/16X18 UNC BLUE BND - SPIRAL FLUTE	2	SOLD OUT
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

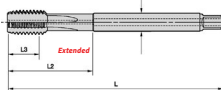


149-119-819	5/16-24 3FL SP/FLUTE - UNF	2	\$9.79
149-119-820	3/8-24 3FL SP/FLUTE - UNF	1	\$11.34



REDUCED NECK

MODIFIED STANDARD



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



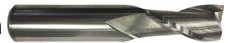
122-C97085	NO.8-32 HS G H3 2F PL SPPT BLUE DIA TAP	2	\$9.44
122-C97139	1/4-28 HS G H3 2F PL SPPT BLUE DIA TAP	2	\$11.66



133-5045-22140	1/2X1/2X5/8X2-1/2 5FL TIALN SUPREME ENDMILL	1	\$39.00
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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



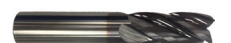
113-NC64008	1/8 X 1/8 X 1/2 X 1-1/2	1	\$5.00
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4 Flute TiAlN Coated Ballnose Solid Carbide End Mill



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-NCM4143W-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	2	\$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	93	\$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	154	\$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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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	\$43.42
172-250-31232-C5	5/16 X 5/16 X 2-1/8 X 4 2FL SEEM ALUM Z	3	\$45.37
172-250-37508BN	3/8 X 3/8 X 1/2 X 2-1/2 2FL SEEM ALUM B-UNCOATED	2	\$35.55
172-250-37508BN-C5	3/8 X 3/8 X 1/2 X 2-1/2 2FL SEEM ALUM BALLNOSE-ZRN	2	\$40.55

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	\$19.93
172-251S4375-C5	7/16 X 7/16 X 9/16 X 2-3/4 2 FLT STUB SE	1	\$47.08
172-251S7500-C5	3/4 X 3/4 X 1 X 4 2 FLT STUB SE V-SERIES	1	\$125.58

3 Flute for Aluminum - 350 Series

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

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

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



Jobber Length Drill Bits Full TiN Coating

Order Number	Description	QTY	CLEARANCE PRICE
112-5103-1009	9/64" KOMBAT JBR DRILL	12	\$0.78
112-5103-1017	17/64" KOMBAT JBR DRILL	18	\$1.76
112-5103-1026	13/32" KOMBAT JBR DRILL	2	\$4.63

HSS THROWAWAY END MILLS

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



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	\$10.90
103-V2321011S	VIPER 1/2, 2 FLT, 5/8 LOC, 1-3/8 LBS, 3 OAL, STEALTH COATING	6	\$45.58
103-V24012S	VIPER 5/8, 2 FLT, 3/4 LOC, 3-1/2 OAL, STEALTH	3	\$73.10
103-BV24012S	BALL VIPER 5/8, 2 FLT, 3/4 LOC, 3-1/2 OAL, STEALTH COATING	1	\$90.30

3 Flute Square End

Aluminum & Non-Ferrous, Var.-Helix



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

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, ALTN COATING	2	\$15.77
103-R62408C	RAPTOR 3/8, 3/6 FLT, 1/2 LOC, 2 OAL, ALTN COATING	1	\$23.79
103-R62408RC	RAPTOR 3/8, 3/6 FLT, 1/2 LOC, .015-.020 RAD, 2 OAL, ALTN COATING	8	\$26.09
103-R63210RC	RAPTOR 1/2, 3/6 FLT, 5/8 LOC, .025-.030 RAD, 3 OAL, ALTN COATING	6	\$43.86
103-R63220RC	RAPTOR 1/2, 3/6 FLT, 1-1/4 LOC, .025-.030 RAD, 3 OAL, ALTN COATING	2	\$49.88

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, ALTN COATING	4	\$21.00
103-DVH43210RC	DVH 1/2, 4 FLT, 5/8 LOC, .025-.030 RAD, 3 OAL, ALTN COATING	2	\$43.86

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	\$61.35
103-DR34816R030S	DBACK ROUGHER 3/4, 3 FLT, 1 LOC, .030 RAD, 4 OAL, STEALTH COATING	1	\$123.26



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

3 FLUTE SQUARE ALTN COATED

210-CID-SS1000	ENDMILL-SQ-3FL-TIALN-1"	1	\$111.50
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3 FLUTE BALL NOSE TiCN COATED

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

4 FLUTE BALL NOSE-UNCOATED

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

210-CID-RO-STD1000	ROUGHER-4FL-TIALN-1 (4035-21425)"	1	\$179.98
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5 FLUTE SQUARE-ALTN COATED

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

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