



BULLDOG CUTTING TOOLS

END MILLING

126 Jackson St. Red Bud, IL 62278

Toll Free Phone: 1 (844) 441-5624 Fax: (618) 282-2831 sales@bulldogcut.com

PROUDLY MADE IN THE USA

SAFETY PRECAUTIONS

Cutting tools may shatter or break, government regulations require the use of safety glasses and other safety equipment at all times in the vicinity of cutting tool use. Additionally, the grinding of cutting tools produces dust that may be hazardous to your health, ensure that proper ventilation is used at all times.

OUR POLICIES

Bulldog Cutting Tools guarantees against any manufacturers defaults in workmanship or materials.

Terms of payment - 2% 10 days net 30

Minimum order - 50.00

Returns - Full credit will be issued for all unused tools within 30 days of the purchase date. All returns must be accompanied by a company issued Return Merchandise Authorization (RMA) number. ALL CUSTOM CARBIDE ORDERS ARE MADE TO ORDER AND ARE NON RETURNABLE.

RECYCLING

Tungsten carbide is a valuable and limited resource. We ask that you recycle your used carbide to reduce the impact on our environment and ensure the longevity of the tungsten resource.

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90° & 120° CARBIDE DRILLMILLS



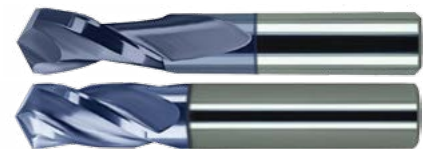
90° DRILLMILLS/CHAMFER MILLS

Multi purpose tool for chamfering and milling parts.

Not recommended for drilling steel.

90° DRILLMILLS

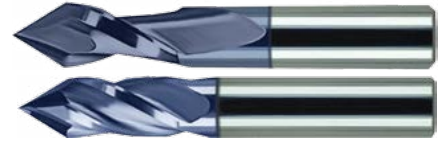
Part # 2 Flute	Part # 4 Flute	Flute Dia	Point Angle	LOC	OAL
18DLML-2F90X	18DLML-4F90X	1/8	90°	.500	1.5
31DLML-2F90X	31DLML-4F90X	3/16	90°	.625	2.0
14DLML-2F90X	14DLML-4F90X	1/4	90°	.750	2.5
51DLML-2F90X	51DLML-4F90X	5/16	90°	.875	2.5
38DLML-2F90X	38DLML-4F90X	3/8	90°	1.0	2.5
12DLML-2F90X	12DLML-4F90X	1/2	90°	1.0	3.0
58DLML-2F90X	58DLML-4F90X	5/8	90°	1.25	3.5
34DLML-2F90X	34DLML-4F90X	3/4	90°	1.5	4.0



120° DRILLMILLS/CHAMFER MILLS

Part # 2 Flute	Part # 4 Flute	Flute Dia	Point Angle	LOC	OAL
18DLML-2F120X	18DLML-4F120X	1/8	120°	.500	1.5
31DLML-2F120X	31DLML-4F120X	3/16	120°	.625	2.0
14DLML-2F120X	14DLML-4F120X	1/4	120°	.750	2.5
51DLML-2F120X	51DLML-4F120X	5/16	120°	.875	2.5
38DLML-2F120X	38DLML-4F120X	3/8	120°	1.0	2.5
12DLML-2F120X	12DLML-4F120X	1/2	120°	1.0	3.0
58DLML-2F120X	58DLML-4F120X	5/8	120°	1.25	3.5
34DLML-2F120X	34DLML-4F120X	3/4	120°	1.5	4.0

60° CARBIDE DRILLMILLS



60° DRILLMILLS/CHAMFER MILLS

Multi purpose tool for chamfering and milling parts.
Not recommended for drilling steel.

Part # 2 Flute	Part # 4 Flute	Flute Dia	Point Angle	LOC	OAL
18DLML-2F60B	18DLML-4F60B	1/8	60°	.500	1.5
31DLML-2F60B	31DLML-4F60B	3/16	60°	.625	2.0
14DLML-2F60B	14DLML-4F60B	1/4	60°	.750	2.5
51DLML-2F60B	51DLML-4F60B	5/16	60°	.875	2.5
38DLML-2F60B	38DLML-4F60B	3/8	60°	1.0	2.5
12DLML-2F60B	12DLML-4F60B	1/2	60°	1.0	3.0
58DLML-2F60B	58DLML-4F60B	5/8	60°	1.25	3.5
34DLML-2F60B	34DLML-4F60B	3/4	60°	1.5	4.0

Multi purpose tool for chamfering and milling parts. Not recommended for drilling steel.
These do not have drill geometry. The 2 flute style can spot drill aluminum but not steel.
These tools are primarily for milling angles or chamfering applications.

**ALL TOOLS ARE MADE FROM PREMIUM AMERICAN CARBIDE BLANKS
AND GROUND IN THE USA
EXPERIENCE THE DIFFERENCE IN AMERICAN MADE**

SPIRAL FLUTE CHAMFER MILLS

SPIRAL HELIX SOLID CARBIDE CHAMFER MILLS

Unique helical geometry reduces cutting forces and improves chip evacuation
Highly effective on exotic as well as standard steels and aluminum

90 DEGREE INCLUDED



Part # 90 Deg	Shank Dia	Tip Dia	Included Angle	OAL	# Flutes
18CHMF90	1/8	To Point	90°	1-1/2	4-STR *
14CHMF90	1/4	0.046	90°	2	4-HLX
38CHMF90	3/8	0.062	90°	2	4-HLX
12CHMF90	1/2	0.093	90°	2 1/2	4-HLX
58CHMF90	5/8	.125	90°	3 1/2	4-HLX

* Straight Fluted Tool

82 DEGREE INCLUDED



Part # 82 Deg	Shank Dia	Tip Dia	Included Angle	OAL	# Flutes
18CHMF82	1/8	To Point	82°	1-1/2	4-STR *
14CHMF82	1/4	0.046	82°	2	4-HLX
38CHMF82	3/8	0.062	82°	2	4-HLX
12CHMF82	1/2	0.093	82°	2 1/2	4-HLX
58CHMF82	5/8	.125	82°	3 1/2	4-HLX

* Straight Fluted Tool

60 DEGREE INCLUDED



Part # 60 Deg	Shank Dia	Tip Dia	Included Angle	OAL	# Flutes
18CHMF60	1/8	To Point	60°	1-1/2	4-STR *
14CHMF60	1/4	0.046	60°	2	4-HLX
38CHMF60	3/8	0.062	60°	2	4-HLX
12CHMF60	1/2	0.093	60°	2 1/2	4-HLX
58CHMF60	5/8	.125	60°	3 1/2	4-HLX

* Straight Fluted Tool

STUB SQUARE END

STUB SQUARE SOLID CARBIDE ENDMILLS

Shorter flute length provides increased rigidity
30 degree helix, center cutting.



ALTiN COATED (X)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-STUB-2FLX	332-STUB-4FLX	3/32	3/16	1/8	1 1/2
18-STUB-2FLX	18-STUB-4FLX	1/8	1/4	1/8	1 1/2
532-STUB-2FLX	532-STUB-4FLX	5/32	5/16	3/16	2
316-STUB-2FLX	316-STUB-4FLX	3/16	3/8	3/16	2
14-STUB-2FLX	14-STUB-4FLX	1/4	1/2	1/4	2
516-STUB-2FLX	516-STUB-4FLX	5/16	1/2	5/16	2
38-STUB-2FLX	38-STUB-4FLX	3/8	5/8	3/8	2
716-STUB-2FLX	716-STUB-4FLX	7/16	5/8	7/16	2 1/2
12-STUB-2FLX	12-STUB-4FLX	1/2	5/8	1/2	2 1/2
58-STUB-2FLX	58-STUB-4FLX	5/8	3/4	5/8	3
34-STUB-2FLX	34-STUB-4FLX	3/4	1	3/4	4



UNCOATED (B)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-STUB-2FLB	332-STUB-4FLB	3/32	3/16	1/8	1 1/2
18-STUB-2FLB	18-STUB-4FLB	1/8	1/4	1/8	1 1/2
532-STUB-2FLB	532-STUB-4FLB	5/32	5/16	3/16	2
316-STUB-2FLB	316-STUB-4FLB	3/16	3/8	3/16	2
14-STUB-2FLB	14-STUB-4FLB	1/4	1/2	1/4	2
516-STUB-2FLB	516-STUB-4FLB	5/16	1/2	5/16	2
38-STUB-2FLB	38-STUB-4FLB	3/8	5/8	3/8	2
716-STUB-2FLB	716-STUB-4FLB	7/16	5/8	7/16	2 1/2
12-STUB-2FLB	12-STUB-4FLB	1/2	5/8	1/2	2 1/2
58-STUB-2FLB	58-STUB-4FLB	5/8	3/4	5/8	3
34-STUB-2FLB	34-STUB-4FLB	3/4	1	3/4	4

Tolerance – Diameter: +.000/- .002 Shank: -.0001/- .0003 Made from Submicrograin Carbide

STUB BALLNOSE

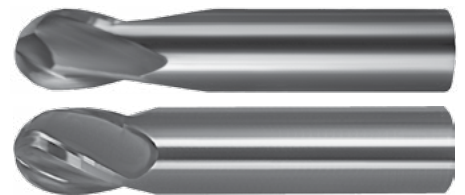
STUB BALLNOSE

Ideal for machining radius configurations and 3D milling



ALTIN COATED (X)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-STUB-2FLX-BN	332-STUB-4FLX-BN	3/32	3/16	1/8	1 1/2
18-STUB-2FLX-BN	18-STUB-4FLX-BN	1/8	1/4	1/8	1 1/2
532-STUB-2FLX-BN	532-STUB-4FLX-BN	5/32	5/16	3/16	2
316-STUB-2FLX-BN	316-STUB-4FLX-BN	3/16	3/8	3/16	2
14-STUB-2FLX-BN	14-STUB-4FLX-BN	1/4	1/2	1/4	2
516-STUB-2FLX-BN	516-STUB-4FLX-BN	5/16	1/2	5/16	2
38-STUB-2FLX-BN	38-STUB-4FLX-BN	3/8	5/8	3/8	2
716-STUB-2FLX-BN	716-STUB-4FLX-BN	7/16	5/8	7/16	2 1/2
12-STUB-2FLX-BN	12-STUB-4FLX-BN	1/2	5/8	1/2	2 1/2



UNCOATED (B)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-STUB-2FLB-BN	332-STUB-4FLB-BN	3/32	3/16	1/8	1 1/2
18-STUB-2FLB-BN	18-STUB-4FLB-BN	1/8	1/4	1/8	1 1/2
532-STUB-2FLB-BN	532-STUB-4FLB-BN	5/32	5/16	3/16	2
316-STUB-2FLB-BN	316-STUB-4FLB-BN	3/16	3/8	3/16	2
14-STUB-2FLB-BN	14-STUB-4FLB-BN	1/4	1/2	1/4	2
516-STUB-2FLB-BN	516-STUB-4FLB-BN	5/16	1/2	5/16	2
38-STUB-2FLB-BN	38-STUB-4FLB-BN	3/8	5/8	3/8	2
716-STUB-2FLB-BN	716-STUB-4FLB-BN	7/16	5/8	7/16	2 1/2
12-STUB-2FLB-BN	12-STUB-4FLB-BN	1/2	5/8	1/2	2 1/2

STUB DOUBLE END

STUB LENGTH SOLID CARBIDE ENDMILLS

Shorter flute length provides increased rigidity



ALTIN COATED (X)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-STUB-2FLX-DE	332-STUB-4FLX-DE	3/32	3/16	1/8	1 1/2
18-STUB-2FLX-DE	18-STUB-4FLX-DE	1/8	1/4	1/8	1 1/2
532-STUB-2FLX-DE	532-STUB-4FLX-DE	5/32	5/16	3/16	2
316-STUB-2FLX-DE	316-STUB-4FLX-DE	3/16	3/8	3/16	2
14-STUB-2FLX-DE	14-STUB-4FLX-DE	1/4	1/2	1/4	2 1/2
516-STUB-2FLX-DE	516-STUB-4FLX-DE	5/16	1/2	5/16	2 1/2
38-STUB-2FLX-DE	38-STUB-4FLX-DE	3/8	1/2	3/8	2 1/2
716-STUB-2FLX-DE	716-STUB-4FLX-DE	7/16	9/16	7/16	3
12-STUB-2FLX-DE	12-STUB-4FLX-DE	1/2	5/8	1/2	3



UNCOATED (B)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-STUB-2FLB-DE	332-STUB-4FLB-DE	3/32	3/16	1/8	1 1/2
18-STUB-2FLB-DE	18-STUB-4FLB-DE	1/8	1/4	1/8	1 1/2
532-STUB-2FLB-DE	532-STUB-4FLB-DE	5/32	5/16	3/16	2
316-STUB-2FLB-DE	316-STUB-4FLB-DE	3/16	3/8	3/16	2
14-STUB-2FLB-DE	14-STUB-4FLB-DE	1/4	1/2	1/4	2 1/2
516-STUB-2FLB-DE	516-STUB-4FLB-DE	5/16	1/2	5/16	2 1/2
38-STUB-2FLB-DE	38-STUB-4FLB-DE	3/8	1/2	3/8	2 1/2
716-STUB-2FLB-DE	716-STUB-4FLB-DE	7/16	9/16	7/16	3
12-STUB-2FLB-DE	12-STUB-4FLB-DE	1/2	5/8	1/2	3

STANDARD LENGTH ENDMILLS

STANDARD LENGTH

Because these standard endmills are made from premium American carbide they last longer and perform better than other brands. Center cutting, 30 degree helix, AlTiN coated



ALTiN COATED (X)

Part # 2 Flute	Part # 3 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-REG-2FLX	332-REG-3FLX	332-REG-4FLX	3/32	3/8	1/8	1 1/2
18-REG-2FLX	18-REG-3FLX	18-REG-4FLX	1/8	1/2	1/8	1 1/2
532-REG-2FLX	532-REG-3FLX	532-REG-4FLX	5/32	9/16	3/16	2
316-REG-2FLX	316-REG-3FLX	316-REG-4FLX	3/16	5/8	3/16	2
14-REG-2FLX	14-REG-3FLX	14-REG-4FLX	1/4	3/4	1/4	2 1/2
516-REG-2FLX	516-REG-3FLX	516-REG-4FLX	5/16	7/8	5/16	2 1/2
38-REG-2FLX	38-REG-3FLX	38-REG-4FLX	3/8	1	3/8	2 1/2
716-REG-2FLX	716-REG-3FLX	716-REG-4FLX	7/16	1	7/16	2 1/2
12-REG-2FLX	12-REG-3FLX	12-REG-4FLX	1/2	1	1/2	3
916-REG-2FLX	916-REG-3FLX	916-REG-4FLX	9/16	1 1/4	9/16	3 1/2
58-REG-2FLX	58-REG-3FLX	58-REG-4FLX	5/8	1 1/4	5/8	3 1/2
34-REG-2FLX	34-REG-3FLX	34-REG-4FLX	3/4	1 1/2	3/4	4
78-REG-2FLX	78-REG-3FLX	78-REG-4FLX	7/8	1 1/2	7/8	4
1-REG-2FLX	1-REG-3FLX	1-REG-4FLX	1	1 1/2	1	4

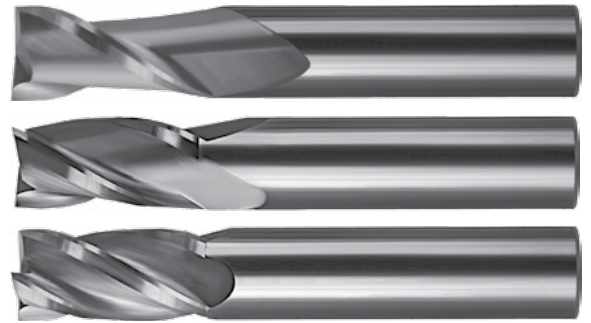
Tolerance – Diameter: +.000/-0.002 Shank: -.0001/-0.0003 Made from Submicrograin Carbide

**ALL TOOLS ARE MADE FROM PREMIUM AMERICAN CARBIDE BLANKS
AND GROUND IN THE USA
EXPERIENCE THE DIFFERENCE IN AMERICAN MADE**

STANDARD LENGTH ENDMILLS

STANDARD LENGTH

Because these standard endmills are made from premium American carbide they last longer and perform better than other brands.
Center cutting, 30 degree helix, uncoated for aluminum



UNCOATED (B)

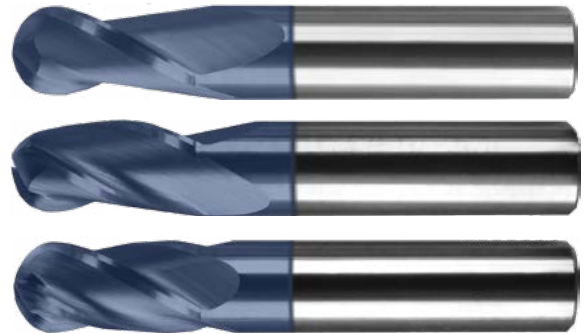
Part # 2 Flute	Part # 3 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-REG-2FLB	332-REG-3FLB	332-REG-4FLB	3/32	3/8	1/8	1 1/2
18-REG-2FLB	18-REG-3FLB	18-REG-4FLB	1/8	1/2	1/8	1 1/2
532-REG-2FLB	532-REG-3FLB	532-REG-4FLB	5/32	9/16	3/16	2
316-REG-2FLB	316-REG-3FLB	316-REG-4FLB	3/16	5/8	3/16	2
14-REG-2FLB	14-REG-3FLB	14-REG-4FLB	1/4	3/4	1/4	2 1/2
516-REG-2FLB	516-REG-3FLB	516-REG-4FLB	5/16	7/8	5/16	2 1/2
38-REG-2FLB	38-REG-3FLB	38-REG-4FLB	3/8	1	3/8	2 1/2
716-REG-2FLB	716-REG-3FLB	716-REG-4FLB	7/16	1	7/16	2 1/2
12-REG-2FLB	12-REG-3FLB	12-REG-4FLB	1/2	1	1/2	3
916-REG-2FLB	916-REG-3FLB	916-REG-4FLB	9/16	1 1/4	9/16	3 1/2
58-REG-2FLB	58-REG-3FLB	58-REG-4FLB	5/8	1 1/4	5/8	3 1/2
34-REG-2FLB	34-REG-3FLB	34-REG-4FLB	3/4	1 1/2	3/4	4
78-REG-2FLB	78-REG-3FLB	78-REG-4FLB	7/8	1 1/2	7/8	4
1-REG-2FLB	1-REG-3FLB	1-REG-4FLB	1	1 1/2	1	4

Tolerance – Diameter: +.000/-0.002 Shank: -.0001/-0.0003 Made from Submicrograin Carbide

STANDARD BALLNOSE

STANDARD LENGTH BALLNOSE

Ideal for machining radius configurations and 3D milling



ALTIN COATED (X)

Part # 2 Flute	Part # 3 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-REG-2FLX-BN	332-REG-3FLX-BN	332-REG-4FLX-BN	3/32	3/8	1/8	1 1/2
18-REG-2FLX-BN	18-REG-3FLX-BN	18-REG-4FLX-BN	1/8	1/2	1/8	1 1/2
532-REG-2FLX-BN	532-REG-3FLX-BN	532-REG-4FLX-BN	5/32	9/16	3/16	2
316-REG-2FLX-BN	316-REG-3FLX-BN	316-REG-4FLX-BN	3/16	5/8	3/16	2
14-REG-2FLX-BN	14-REG-3FLX-BN	14-REG-4FLX-BN	1/4	3/4	1/4	2 1/2
516-REG-2FLX-BN	516-REG-3FLX-BN	516-REG-4FLX-BN	5/16	7/8	5/16	2 1/2
38-REG-2FLX-BN	38-REG-3FLX-BN	38-REG-4FLX-BN	3/8	1	3/8	2 1/2
716-REG-2FLX-BN	716-REG-3FLX-BN	716-REG-4FLX-BN	7/16	1	7/16	2 1/2
12-REG-2FLX-BN	12-REG-3FLX-BN	12-REG-4FLX-BN	1/2	1	1/2	3
916-REG-2FLX-BN	916-REG-3FLX-BN	916-REG-4FLX-BN	9/16	1 1/4	9/16	3 1/2
58-REG-2FLX-BN	58-REG-3FLX-BN	58-REG-4FLX-BN	5/8	1 1/4	5/8	3 1/2
34-REG-2FLX-BN	34-REG-3FLX-BN	34-REG-4FLX-BN	3/4	1 1/2	3/4	4
78-REG-2FLX-BN	78-REG-3FLX-BN	78-REG-4FLX-BN	7/8	1 1/2	7/8	4
1-REG-2FLX-BN	1-REG-3FLX-BN	1-REG-4FLX-BN	1	1 1/2	1	4

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

STANDARD BALLNOSE

STANDARD LENGTH BALLNOSE

Ideal for machining radius configurations and 3D milling



UNCOATED (B)

Part # 2 Flute	Part # 3 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
332-REG-2FLB-BN	332-REG-3FLB-BN	332-REG-4FLB-BN	3/32	3/8	1/8	1 1/2
18-REG-2FLB-BN	18-REG-3FLB-BN	18-REG-4FLB-BN	1/8	1/2	1/8	1 1/2
532-REG-2FLB-BN	532-REG-3FLB-BN	532-REG-4FLB-BN	5/32	9/16	3/16	2
316-REG-2FLB-BN	316-REG-3FLB-BN	316-REG-4FLB-BN	3/16	5/8	3/16	2
14-REG-2FLB-BN	14-REG-3FLB-BN	14-REG-4FLB-BN	1/4	3/4	1/4	2 1/2
516-REG-2FLB-BN	516-REG-3FLB-BN	516-REG-4FLB-BN	5/16	7/8	5/16	2 1/2
38-REG-2FLB-BN	38-REG-3FLB-BN	38-REG-4FLB-BN	3/8	1	3/8	2 1/2
716-REG-2FLB-BN	716-REG-3FLB-BN	716-REG-4FLB-BN	7/16	1	7/16	2 1/2
12-REG-2FLB-BN	12-REG-3FLB-BN	12-REG-4FLB-BN	1/2	1	1/2	3
916-REG-2FLB-BN	916-REG-3FLB-BN	916-REG-4FLB-BN	9/16	1 1/4	9/16	3 1/2
58-REG-2FLB-BN	58-REG-3FLB-BN	58-REG-4FLB-BN	5/8	1 1/4	5/8	3 1/2
34-REG-2FLB-BN	34-REG-3FLB-BN	34-REG-4FLB-BN	3/4	1 1/2	3/4	4
78-REG-2FLB-BN	78-REG-3FLB-BN	78-REG-4FLB-BN	7/8	1 1/2	7/8	4
1-REG-2FLB-BN	1-REG-3FLB-BN	1-REG-4FLB-BN	1	1 1/2	1	4

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

STANDARD DOUBLE END



STANDARD LENGTH DOUBLE END



ALTIN COATED (X)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
18-REG-2FLX-DE	18-REG-4FLX-DE	1/8	3/8	1/8	2
532-REG-2FLX-DE	532-REG-4FLX-DE	5/32	7/16	3/16	2 1/2
316-REG-2FLX-DE	316-REG-4FLX-DE	3/16	1/2	3/16	2 1/2
14-REG-2FLX-DE	14-REG-4FLX-DE	1/4	5/8	1/4	2 1/2
516-REG-2FLX-DE	516-REG-4FLX-DE	5/16	3/4	5/16	3 1/2
38-REG-2FLX-DE	38-REG-4FLX-DE	3/8	3/4	3/8	3 1/2
716-REG-2FLX-DE	716-REG-4FLX-DE	7/16	7/8	7/16	4
12-REG-2FLX-DE	12-REG-4FLX-DE	1/2	1	1/2	4

LONG BALLNOSE

LONG LENGTH BALLNOSE



ALTIN COATED (X)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
48-LONG-2FLX-B-BN	18-LONG-4FLX-B-BN	1/8	3/4	1/8	2 1/2
316-LONG-2FLX-C-BN	316-LONG-4FLX-C-BN	3/16	3/4	3/16	2 1/2
14-LONG-2FLX-A-BN	14-LONG-4FLX-A-BN	1/4	1	1/4	4
14-LONG-2FLX-C-BN	14-LONG-4FLX-C-BN	1/4	1 1/8	1/4	3
516-LONG-2FLX-A-BN	516-LONG-4FLX-A-BN	5/16	1 1/8	5/16	3
38-LONG-2FLX-A-BN	38-LONG-4FLX-A-BN	3/8	1 1/8	3/8	3
38-LONG-2FLX-B-BN	38-LONG-4FLX-B-BN	3/8	1	3/8	4
716-LONG-2FLX-A-BN	716-LONG-4FLX-A-BN	7/16	2	7/16	4
12-LONG-2FLX-A-BN	12-LONG-4FLX-A-BN	1/2	1 1/2	1/2	4
12-LONG-2FLX-B-BN	12-LONG-4FLX-B-BN	1/2	2	1/2	4
58-LONG-2FLX-A-BN	58-LONG-4FLX-A-BN	5/8	2 1/4	5/8	5
34-LONG-2FLX-A-BN	34-LONG-4FLX-A-BN	3/4	2 1/4	3/4	5
1-LONG-2FLX-A-BN	1-LONG-4FLX-A-BN	1	2 1/4	1	5

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

LONG SQUARE END

LONG LENGTH SQUARE END



ALTIN COATED (X)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
18-LONG-2FLX-B	18-LONG-4FLX-B	1/8	3/4	1/8	2 1/2
316-LONG-2FLX-C	316-LONG-4FLX-C	3/16	3/4	3/16	2 1/2
14-LONG-2FLX-A	14-LONG-4FLX-A	1/4	1	1/4	4
14-LONG-2FLX-C	14-LONG-4FLX-C	1/4	1 1/8	1/4	3
516-LONG-2FLX-A	516-LONG-4FLX-A	5/16	1 1/8	5/16	3
38-LONG-2FLX-A	38-LONG-4FLX-A	3/8	1 1/8	3/8	3
38-LONG-2FLX-B	38-LONG-4FLX-B	3/8	1	3/8	4
716-LONG-2FLX-A	16-LONG-4FLX-A	7/16	2	7/16	4
12-LONG-2FLX-A	12-LONG-4FLX-A	1/2	1 1/2	1/2	4
12-LONG-2FLX-B	12-LONG-4FLX-B	1/2	2	1/2	4
58-LONG-2FLX-A	58-LONG-4FLX-A	5/8	2 1/4	5/8	5
34-LONG-2FLX-A	34-LONG-4FLX-A	3/4	2 1/4	3/4	5
1-LONG-2FLX-A	1-LONG-4FLX-A	1	2 1/4	1	5

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

LONG SQUARE END

LONG LENGTH SQUARE END



UNCOATED (B)

Part # 2 Flute	Part # 4 Flute	Tool Dia	LOC	Shank	OAL
18-LONG-2FLB-B	18-LONG-4FLB-B	1/8	3/4	1/8	2 1/2
316-LONG-2FLB-C	316-LONG-4FLB-C	3/16	3/4	3/16	2 1/2
14-LONG-2FLB-A	14-LONG-4FLB-A	1/4	1	1/4	4
14-LONG-2FLB-C	14-LONG-4FLB-C	1/4	1 1/8	1/4	3
516-LONG-2FLB-A	516-LONG-4FLB-A	5/16	1 1/8	5/16	3
38-LONG-2FLB-A	38-LONG-4FLB-A	3/8	1 1/8	3/8	3
38-LONG-2FLB-B	38-LONG-4FLB-B	3/8	1	3/8	4
716-LONG-2FLB-A	16-LONG-4FLB-A	7/16	2	7/16	4
12-LONG-2FLB-A	12-LONG-4FLB-A	1/2	1 1/2	1/2	4
12-LONG-2FLB-B	12-LONG-4FLB-B	1/2	2	1/2	4
58-LONG-2FLB-A	58-LONG-4FLB-A	5/8	2 1/4	5/8	5
34-LONG-2FLB-A	34-LONG-4FLB-A	3/4	2 1/4	3/4	5
1-LONG-2FLB-A	1-LONG-4FLB-A	1	2 1/4	1	5

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

METRIC SQUARE END



METRIC

4 FLUTE STANDARD LENGTH SOLID CARBIDE

ALTIN COATED (X)

Part # 4 Flute	Tool Dia	LOC	Shank	OAL
035-MET-4FLX	3.5mm	12mm	4mm	50mm
040-MET-4FLX	4.0mm	14mm	4mm	50mm
045-MET-4FLX	4.5mm	16mm	6mm	50mm
050-MET-4FLX	5.0mm	16mm	6mm	50mm
060-MET-4FLX	6.0mm	19mm	6mm	50mm
070-MET-4FLX	7.0mm	19mm	8mm	63mm
080-MET-4FLX	8.0mm	20mm	8mm	63mm
090-MET-4FLX	9.0mm	22mm	10mm	75mm
100-MET-4FLX	10.0mm	22mm	10mm	75mm
110-MET-4FLX	11.0mm	25mm	12mm	75mm
120-MET-4FLX	12.0mm	25mm	12mm	75mm
140-MET-4FLX	14.0mm	32mm	14mm	89mm
160-MET-4FLX	16.0mm	32mm	16mm	89mm
180-MET-4FLX	18.0mm	38mm	18mm	100mm
200-MET-4FLX	20.0mm	38mm	20mm	100mm
250-MET-4FLX	25.0mm	38mm	25mm	100mm

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

METRIC SQUARE END



METRIC

4 FLUTE STANDARD LENGTH SOLID CARBIDE

UNCOATED (B)

Part # 4 Flute	Tool Dia	LOC	Shank	OAL
035-MET-4FLB	3.5mm	12mm	4mm	50mm
040-MET-4FLB	4.0mm	14mm	4mm	50mm
045-MET-4FLB	4.5mm	16mm	6mm	50mm
050-MET-4FLB	5.0mm	16mm	6mm	50mm
060-MET-4FLB	6.0mm	19mm	6mm	50mm
070-MET-4FLB	7.0mm	19mm	8mm	63mm
080-MET-4FLB	8.0mm	20mm	8mm	63mm
090-MET-4FLB	9.0mm	22mm	10mm	75mm
100-MET-4FLB	10.0mm	22mm	10mm	75mm
110-MET-4FLB	11.0mm	25mm	12mm	75mm
120-MET-4FLB	12.0mm	25mm	12mm	75mm
140-MET-4FLB	14.0mm	32mm	14mm	89mm
160-MET-4FLB	16.0mm	32mm	16mm	89mm
180-MET-4FLB	18.0mm	38mm	18mm	100mm
200-MET-4FLB	20.0mm	38mm	20mm	100mm
250-MET-4FLB	25.0mm	38mm	25mm	100mm

Tolerance – Diameter: +.000/-0.002 Shank: -.0001/-0.0003 Made from Submicrograin Carbide

4 FLUTE WITH CORNER RADIUS



CORNER RADIUS

4 Flute standard length solid carbide endmill with
Corner radius and AlTiN coating (Not available in Uncoated)

Part # 4 Flute	Tool Dia	Corner Radius	LOC	Shank	OAL
332-CR010-4FLX	3/32	.010	3/8	1/8	1 1/2
332-CR015-4FLX	3/32	.015	3/8	1/8	1 1/2
332-CR020-4FLX	3/32	.020	3/8	1/8	1 1/2
18-CR010-4FLX	1/8	.010	1/2	1/8	1 1/2
18-CR015-4FLX	1/8	.015	1/2	1/8	1 1/2
18-CR020-4FLX	1/8	.020	1/2	1/8	1 1/2
18-CR030-4FLX	1/8	.030	1/2	1/8	1 1/2
316-CR010-4FLX	3/16	.010	5/8	3/16	2
316-CR015-4FLX	3/16	.015	5/8	3/16	2
316-CR020-4FLX	3/16	.020	5/8	3/16	2
316-CR030-4FLX	3/16	.030	5/8	3/16	2
14-CR015-4FLX	1/4	.015	3/4	1/4	2.5
14-CR020-4FLX	1/4	.020	3/4	1/4	2.5
14-CR030-4FLX	1/4	.030	3/4	1/4	2.5
14-CR045-4FLX	1/4	.045	3/4	1/4	2.5
14-CR060-4FLX	1/4	.060	3/4	1/4	2.5
516-CR015-4FLX	5/16	.015	7/8	5/16	2.5
516-CR020-4FLX	5/16	.020	7/8	5/16	2.5
516-CR030-4FLX	5/16	.030	7/8	5/16	2.5
516-CR045-4FLX	5/16	.045	7/8	5/16	2.5
516-CR060-4FLX	5/16	.060	7/8	5/16	2.5

4 FLUTE WITH CORNER RADIUS



CORNER RADIUS

Continued

Part # 4 Flute	Tool Dia	Corner Radius	LOC	Shank	OAL
38-CR015-4FLX	3/8	.015	1.0	3/8	2.5
38-CR020-4FLX	3/8	.020	1.0	3/8	2.5
38-CR030-4FLX	3/8	.030	1.0	3/8	2.5
38-CR045-4FLX	3/8	.045	1.0	3/8	2.5
38-CR060-4FLX	3/8	.060	1.0	3/8	2.5
12-CR015-4FLX	1/2	.015	1.0	1/2	3.0
12-CR020-4FLX	1/2	.020	1.0	1/2	3.0
12-CR030-4FLX	1/2	.030	1.0	1/2	3.0
12-CR045-4FLX	1/2	.045	1.0	1/2	3.0
12-CR060-4FLX	1/2	.060	1.0	1/2	3.0
12-CR090-4FLX	1/2	.090	1.0	1/2	3.0
12-CR125-4FLX	1/2	.125	1.0	1/2	3.0

Tolerance – Diameter: +.000/-.002 Shank: -.0001/-.0003 Made from Submicrograin Carbide

NOTES:



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