



Solid Carbide Router Bits

2009 Catalog ~ *Fractional*



Terms and Conditions of Sale

To Order

Faxed or e-mailed orders are required. Please specify quantity and EDP numbers.

Minimum Orders

\$50 for standard items, \$200 for special orders. Orders below \$50 are subject to a \$7.50 handling fee.

Standard Payment Terms

Overseas customers: Prepaid.
US customers: Net 30 Days, pending credit approval, past due after 30 days from billing date.

Freight

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Special Tooling for your Requirements

When you need a non-standard tool for a specific job, give us a call. Requirements for special tooling or modifications of existing standard items will be given prompt, expert attention.

Resharpener

Mastercut Tool Corp. employs skilled craftsmen and advanced equipment to provide excellent resharpener services. We can sharpen dull cutters regardless of the manufacturer. This is an excellent and efficient way to get new tool performance at a fraction of the cost. Please inquire about our resharpener price list.

Return Policy

We do not accept returns on items which we do not maintain in stock. Returns are subject to a 15% re-stocking fee. No returns on specials. No returns will be accepted beyond 6 months from date of shipment.



Mastercut Tool Corp. has been providing tools and services to the Solid Carbide Cutting Tool industry for over 22 years. Mastercut offers a large inventory of high quality Endmills - Burs - Drills - Reamers - Routers and High-performance tools as well as providing special-order customization services to our clients.

Visit www.mastercuttool.com for details about the wide range of products and services offered.

For pricing information about the products shown in this catalog, please refer to the Mastercut Router Bits Fractional Catalog's Price List, or contact Customer Service via phone (727) 726-5336 or fax (727) 725-2532 or Email at sales@mastercuttool.com.

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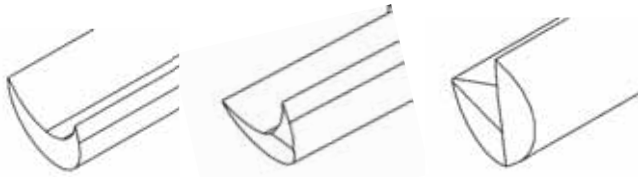
Email: sales@mastercuttool.com

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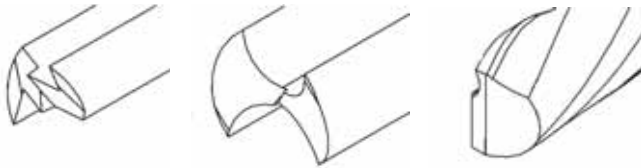
Wood Router Technical Information

Crescent Point



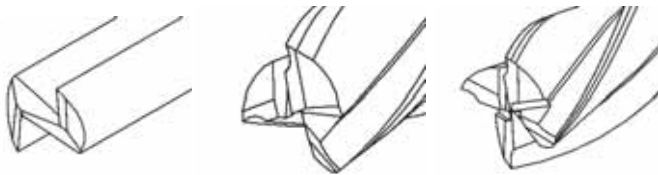
Crescent points are typically found on 1 flute router bits. They are good for both plunging, and flat bottom cutting.

Plunge (Fishtail) Point



Plunge (Fishtail) points are the most commonly seen end points in the wood router industry. They are perfect when a rigid plunge point is required.

Endmill Point



Endmill points are most often found on 3 and 4 flute routers. They are good for achieving smooth finish on a flat bottom surface, and are commonly used in the plastic routing industry.

Straight Flute vs. Spiral Routers

Straight flute router bits are generally used for routing plastics and other soft materials.

They are a great choice for hand feed operations.

Spiral flute router bits should only be used in automatic feed operations. They are good for use on all materials.

Flute Types

1 Flute routers are a good choice for soft materials. They provide a good finish, and are capable of faster feed rates.

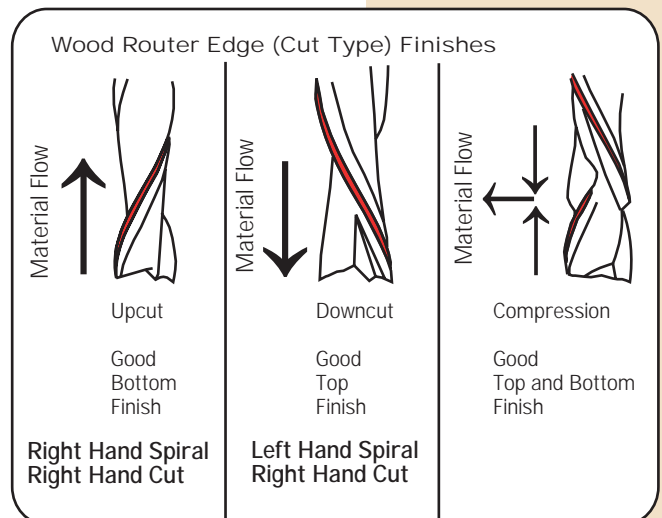
2 Flute routers work well with harder materials, providing an excellent finish to the material.

Upcut, Downcut, and Compression Bits

Upcut routers are used when a good bottom finish is desired on the material. Chips flow in an upward direction.

Downcut routers produce the best finish to the top of the material. Chips flow in a downward direction.

Compression routers are best used when both top and bottom finish are important. They are best used with material that has laminate on both the top and bottom. Chips flow in a sideways direction.



Cutting Edge Tolerance: $\pm .000$ $-.003$
Shank Tolerance: **h6**

Wood Router Material Usage and Feed Rates

TOOL DESCRIPTION	Soft Woods	Hard Woods	Soft Plywood	Hard Plywood	Particle Board	Laminated Particle Board	Laminated Plywood	Soft Ductile Plastics	Hard Brittle Plastics	Fiber Reinforced Plastics	Solid Surface Materials	Plastic Laminated Materials	Aluminum
1 FLUTE ROUTERS													
Surface Inches per minute													
1 Flute Straight "V" Flute	100-300	100-250	100-250	100-250	100-250	~	~	~	~	~	~	~	~
1 Flute Straight "O" Flute	100-300	~	~	~	~	~	~	350	300	~	~	~	~
1 Flute Straight "O" Flute (Soft Or Hard Plastics)	~	~	~	~	~	~	~	350	300	~	~	~	~
1 Flute Upcut Spiral	150-300	150-300	~	~	150-300	~	~	~	~	~	~	~	~
1 Flute "O" Flute Upcut Spiral (Soft Plastics)	~	~	~	~	~	~	~	~	200	~	100-180	~	~
1 Flute Upcut Spiral (Hard Plastics & Aluminum)	~	~	~	~	~	~	~	~	~	100	~	~	150
1 Flute "O" Flute Upcut Spiral (Hard Plastics)	~	~	~	~	~	~	~	150	150	~	150-180	~	~
1 Flute Downcut Spiral	150-300	150-300	~	~	150-300	~	~	~	~	~	~	~	~
1 Flute "O" Flute Downcut Spiral (Hard Plastics)	150-300	150-300	~	~	150-300	~	~	~	~	~	~	~	~
1 Flute Downcut Spiral (Hard Plastics & Aluminum)	~	~	~	~	~	~	~	~	~	150	~	~	100
1 Flute "O" Flute Downcut Spiral (Soft Plastics)	~	~	~	~	~	~	~	150	150	~	100-180	~	~
1 Flute Compression Spiral	100-600	100-600	100-600	100-600	100-500	100-600	100-600	~	~	~	~	~	~
1 Flute Mortise Compression Spiral	100-600	100-600	100-600	100-600	100-500	100-600	100-600	~	~	~	~	~	~
2 FLUTE ROUTERS													
2 Flute Straight Cut (Natural Wood & Hard Plastics)	200-400	200-400	200-400	200-400	200-400	~	~	~	~	~	~	~	~
2 Flute Straight Cut (Hard Plastics)	~	~	~	~	~	~	~	~	250	150	~	~	~
2 Flute "O" Flute Straight Cut (Soft Plastics)	~	~	~	~	~	~	~	~	250	150	150-200	~	~
2 Flute "O" Flute Straight Cut (Hard Plastics)	~	~	~	~	~	~	~	~	250	150	150-200	~	~
2 Flute Upcut Spiral	200-450	200-400	~	~	200-450	~	~	200	~	~	150-200	~	~
2 Flute Upcut Spiral (Hard Plastics & Aluminum)	~	~	~	~	~	~	~	~	~	150	150-200	~	150
2 Flute Upcut Spiral (High Impact)	200-450	200-400	~	~	200-450	~	~	~	~	~	~	~	~
2 Flute "O" Flute Upcut Slow Spiral (Soft & Hard Plastics)	~	~	~	~	~	~	~	275	250	~	150	~	~
2 Flute Upcut Spiral Chipbreaker Finisher	400-1500	400-1200	400-1400	400-1200	400-1000	~	~	~	~	~	~	~	~
2 Flute Upcut Spiral Chipbreaker Finisher (High Impact)	400-1500	400-1200	400-1400	400-1200	400-1000	~	~	~	~	~	~	~	~
2 Flute Downcut Spiral	200-450	200-400	~	~	200-450	~	~	~	~	~	150-200	~	~
2 Flute Downcut Spiral (Hard Plastics & Aluminum)	~	~	~	~	~	~	~	~	~	150	150-200	~	150
2 Flute Downcut Slow Spiral (Hard Plastics & Aluminum)	~	~	~	~	~	~	~	300	275	~	150	~	~
2 Flute Downcut Spiral (High Impact)	200-450	200-400	~	~	200-450	~	~	~	~	~	~	~	~
2 Flute Downcut Spiral Chipbreaker Finisher	400-1500	400-1200	400-1400	400-1200	400-1000	~	~	~	~	~	~	~	~
2 Flute Downcut Spiral Chipbreaker Finisher (High Impact)	400-1500	400-1200	400-1400	400-1200	400-1000	~	~	~	~	~	~	~	~
2 Flute Compression	400-1200	400-1000	400-1200	400-1000	400-800	400-1200	400-1000	~	~	~	~	~	~
2 Flute Chipbreaker Finisher Compression	400-1500	400-1200	400-1400	400-1200	400-1000	400-1400	400-1200	~	~	~	~	~	~
2 Flute Compression (High Wear)	400-1200	400-1000	400-1200	400-1000	400-800	400-1200	400-1000	~	~	~	~	~	~
2 Flute Mortise Compression	400-1200	400-1000	400-1200	400-1000	400-800	400-1200	400-1000	~	~	~	~	~	~

Material Usage and Feed Rates Continued

TOOL DESCRIPTION	Soft Woods	Hard Woods	Soft Plywood	Hard Plywood	Particle Board	Laminated Particle Board	Laminated Plywood	Soft Ductile Plastics	Hard Brittle Plastics	Fiber Reinforced Plastics	Solid Surface Materials	Plastic Laminated Materials	Aluminum
Surface Inches per minute													
3 FLUTE ROUTERS													
3 Flute Upcut Slow Spiral Finisher	200-600	200-500	~	~	200-500	~	~	~	300	~	100-300	~	~
3 Flute Downcut Slow Spiral Finisher	200-600	200-500	~	~	200-500	~	~	~	300	~	100-300	~	~
3 Flute Upcut Spiral Chipbreaker Finisher	500-1600	500-1500	700-1800	700-1600	600-1200	~	~	~	~	~	~	~	~
3 Flute Downcut Spiral Chipbreaker Finisher	500-1600	500-1500	700-1800	700-1600	600-1201	~	~	~	~	~	~	~	~
3 Flute Upcut Spiral (Hard Plastics)	~	~	~	~	~	~	~	~	~	150	~	~	~
3 Flute Upcut Slow Helix Ripper	700-1200	700-1200	700-1500	700-1500	600-1500	~	~	~	~	~	~	~	~
3 Flute Upcut Spiral High Helix Ripper	700-1200	700-1200	700-1500	700-1500	600-1500	~	~	~	~	~	~	~	~
3 Flute Upcut Spiral Hogger (High Impact)	700-1200	700-1200	700-1500	700-1500	600-1500	~	~	~	~	~	~	~	~
3 Flute Downcut Spiral (Hard Plastics)	~	~	~	~	~	~	~	~	~	150	~	~	~
3 Flute Downcut Slow Helix Ripper	700-1200	700-1200	700-1500	700-1500	600-1500	~	~	~	~	~	~	~	~
3 Flute Downcut Spiral High Helix Ripper	700-1200	700-1200	700-1500	700-1500	600-1500	~	~	~	~	~	~	~	~
3 Flute Downcut Spiral Hogger (High Impact)	700-1200	700-1200	700-1500	700-1500	600-1500	~	~	~	~	~	~	~	~
3 Flute Compression	400-1200	400-1000	400-1200	400-1000	400-800	400-1200	400-1000	~	~	~	~	~	~
3 Flute Compression (High Wear)	400-1200	400-1000	400-1200	400-1000	400-800	400-1200	400-1000	~	~	~	~	~	~
3 Flute Mortise Compression	400-1200	400-1000	400-1200	400-1000	400-800	400-1200	400-1000	~	~	~	~	~	~
4 FLUTE ROUTERS													
4 Flute Upcut Spiral (Hard Plastics)	~	~	~	~	~	~	~	~	~	100-300	~	~	~
4 Flute Upcut Combination Spiral (High Speed)	1000-1800	1000-1800	1200-3000	1200-2800	1000-2000	~	~	~	~	~	~	~	~
4 Flute Downcut Spiral (Hard Plastics)	~	~	~	~	~	~	~	~	~	150	~	~	~
4 Flute Downcut Combination Spiral (High Speed)	1000-1800	1000-1800	1200-3000	700-2200	1200-2800	~	~	~	~	~	~	~	~
4 Flute Compression	500-1600	500-1500	700-2400	700-2200	600-1600	700-2400	700-2200	~	~	~	~	~	~
4 Flute Combination Compression	1000-1800	1000-1800	1200-3000	1200-2800	1000-2000	1200-3000	1200-2800	~	~	~	~	~	~
4 Flute Mortise Compression	500-1600	500-1500	700-2400	700-2200	600-1600	700-2400	700-2200	~	~	~	~	~	~
SPECIALITY TOOLS													
Diamond Burr Fiberglass Finisher (Hard Plastics)	~	~	~	~	~	~	~	~	~	125	~	~	~
2 Flute Diamond Burr Fiberglass Finisher (Hard Plastics)	~	~	~	~	~	~	~	~	~	125	~	~	~
Flush Trim Laminate Bit (Plastic Laminate)	~	~	~	~	~	~	~	~	~	Hand Feed	~	~	~
7 Degree Bevel Laminate Bit (Plastic Laminate)	~	~	~	~	~	~	~	~	~	Hand Feed	~	~	~



Material Finish-Top: Good
 Material Finish-Bottom: Good
 End Point Type:Crescent

1 Flute "O" Flute Straight Cut (Soft or Hard Plastics)

D1	L1	D2	L2	Part#
1/8	5/16	1/4	2	811-1001
1/8	1/2	1/4	2	811-1002
1/8	1/2	1/4	2	811-1003 (Left Hand)
1/8	5/8	1/4	4	811-1004
1/8	1/2	1/8	2	811-1005
1/8	5/8	1/8	3	811-1006
5/32	9/16	1/4	2	811-1009
7/32	5/8	1/4	2-1/2	811-1014
3/16	3/8	1/4	2	811-1010
3/16	5/8	1/4	2	811-1011
3/16	5/8	1/4	2	811-1012 (Left Hand)
3/16	1	1/4	4	811-1013
3/16	5/8	3/16	2-1/2	811-1007
1/4	3/8	1/4	2-1/2	811-1015
1/4	3/4	1/4	2-1/2	811-1016
1/4	3/4	1/4	2-1/2	811-1017 (Left Hand)
1/4	3/4	1/4	3-1/2	811-1018
1/4	3/4	1/4	3-1/2	811-1019 (Left Hand)
1/4	1	1/4	3-1/4	811-1020
1/4	1-1/4	1/4	4	811-1008
3/8	5/8	3/8	2-1/2	811-1022
3/8	7/8	3/8	2-1/2	811-1023
3/8	1-5/8	3/8	6	811-1024
1/2	1	1/2	3	811-1025
1/2	1-5/8	1/2	4	811-1026
1/2	2-1/8	1/2	6	811-1027



Material Finish-Top: Good
 Material Finish-Bottom: Good
 End Point Type: Crescent

1 Flute "V" Flute Straight Cut

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	812-1001
3/16	3/4	1/4	2	812-1002
1/4	7/8	1/4	2-1/2	812-1003
1/4	1	1/4	2-1/2	812-1004
5/16	1-1/8	5/16	3	812-1005
3/8	1-1/8	3/8	3	812-1006
1/2	1-1/8	1/2	3	812-1007



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Endmill
 Helix Angle: 30°

1 Flute Upcut Spiral (Soft Plastics)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	812-2101
3/16	3/4	1/4	2	812-2102
1/4	7/8	1/4	2-1/2	812-2103
1/4	1	1/4	2-1/2	812-2104
5/16	1-1/8	5/16	3	812-2105
3/8	1-1/8	3/8	3	812-2106
1/2	1-1/8	1/2	3	812-2107

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

1 Flute Upcut Spiral (Hard Plastics and Aluminum)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-2001
5/32	9/16	1/4	2	801-2002
3/16	5/8	1/4	2	801-2003
7/32	5/8	1/4	2-1/2	801-2004
1/4	3/4	1/4	2-1/2	801-2005
9/32	3/4	3/8	2-1/2	801-2006
5/16	13/16	3/8	2-1/2	801-2007
3/8	7/8	3/8	2-1/2	801-2008
7/16	1	1/2	3	801-2009
1/2	1	1/2	3	801-2010



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Endmill
 Helix Angle: 30°

1 Flute "O" Flute Upcut Spiral (Soft Plastics)

D1	L1	D2	L2	Part#
1/16	1/4	1/8	2	801-1701
1/16	1/4	1/4	2	801-1702
1/8	1/4	1/8	2	801-1703
1/8	1/4	1/4	2	801-1704
1/8	1/2	1/8	2	801-1705
1/8	1/2	1/4	2	801-1706
5/32	9/16	1/4	2	801-1707
3/16	3/8	3/16	2	801-1708
3/16	3/8	1/4	2	801-1709
3/16	5/8	1/4	2	801-1710
7/32	3/4	1/4	2-1/2	801-1711
1/4	3/8	1/4	2	801-1715
1/4	3/4	1/4	2-1/2	801-1712
1/4	1-1/4	1/4	3	801-1713
3/8	1-1/8	3/8	3	801-1714



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 21°

1 Flute "O" Flute Upcut Spiral (Hard Plastics)

D1	L1	D2	L2	Part#
1/16	1/4	1/8	2	801-1609
1/16	1/4	1/4	2	801-1601
1/8	1/4	1/8	2	801-1610
1/8	1/2	1/8	2	801-1611
1/8	1/4	1/4	2	801-1602
1/8	1/2	1/4	2	801-1603
3/16	3/8	3/16	2	801-1612
3/16	5/8	3/16	2	801-1613
3/16	3/8	1/4	2	801-1604
3/16	5/8	1/4	2	801-1605
1/4	3/8	1/4	2	801-1614
1/4	3/4	1/4	2-1/2	801-1606
1/4	1-1/4	1/4	3	801-1607
3/8	1-1/8	3/8	3	801-1608



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 21°

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point Type: Endmill
 Helix Angle: 30°

1 Flute Downcut Spiral

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-1901
3/16	3/4	1/4	2	801-1902
1/4	7/8	1/4	2-1/2	801-1903
1/4	1	1/4	2-1/2	801-1904
5/16	1-1/8	5/16	3	801-1905
3/8	1-1/8	3/8	3	801-1906
1/2	1-1/8	1/2	3	801-1907



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point Type: Endmill
 Helix Angle: 30°

1 Flute Downcut Spiral (Hard Plastics and Aluminum)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-1801
1/4	3/4	1/4	2-1/2	801-1802
5/16	13/16	3/8	2-1/2	801-1803
3/8	7/8	3/8	2-1/2	801-1804



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point Type: Crescent
 Helix Angle: 21°

1 Flute "O" Flute Downcut Spiral (Soft Plastics)

D1	L1	D2	L2	Part#
1/8	1/2	1/8	2	801-1501
1/8	1/2	1/4	2	801-1502
3/16	5/8	3/16	2	801-1503
3/16	5/8	1/4	2	801-1504
1/4	3/4	1/4	2-1/2	801-1505
1/4	1-1/4	1/4	3	801-1506
3/8	1-1/8	3/8	3	801-1507

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

1 Flute "O" Flute Downcut Spiral

D1	L1	D2	L2	Part#
1/8	1/2	1/8	2	801-1408
1/8	1/2	1/4	2	801-1401
5/32	9/16	1/4	2	801-1402
3/16	5/8	3/16	2	801-1409
3/16	5/8	1/4	2	801-1403
7/32	3/4	1/4	2-1/2	801-1404
1/4	3/4	1/4	2-1/2	801-1405
1/4	1-1/4	1/4	3	801-1406
3/8	1-1/8	3/8	3	801-1407



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point Type: Crescent
 Helix Angle: 22°

1 Flute Veining Bit

D1	L1	D2	L2	Part#
1/16	1/4	1/4	1-1/2	801-2710
3/32	1/4	1/4	1-1/2	801-2711
1/8	1/4	1/4	1-1/2	801-2712



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Endmill
 Helix Angle: 30°

1 Flute Compression Spiral

D1	L1	D2	L2	Part#
1/8	3/8	1/4	2-1/2	803-1201
3/16	5/8	1/4	2-1/2	803-1202
1/4	7/8	1/4	2-1/2	803-1203
3/8	1-1/8	3/8	3	803-1204
3/8	1-1/8	3/8	3	803-1204L - (Left Hand)
1/2	1	1/2	3	803-1207
1/2	1-1/8	1/2	3	803-1209
1/2	1-3/8	1/2	3-1/2	803-1211
1/2	1-5/8	1/2	3-1/2	803-1212
1/2	1-5/8	1/2	3-1/2	803-1213 (Left Hand)
5/8	2-1/4	5/8	4	803-1214
3/4	2	3/4	4	803-1215



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

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1 Flute



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 30°

1 Flute Compression Hard Surface

D1	L1	D2	L2	Part#
1/2	1	1/2	3	803-1208

1 Flute Compression Hard Wood

D1	L1	D2	L2	Part#
1/2	1-1/8	1/2	3	803-1210



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 30°

1 Flute Mortise Compression Spiral

D1	L1	Mortise	D2	L2	Part#
1/4	7/8	.175	1/4	2-1/2	803-1901
3/8	7/8	.188	3/8	3	803-1902
1/2	7/8	.200	1/2	3	803-1903
1/2	7/8	.200	1/2	3	803-1904 (Left Hand)
1/2	1-5/8	.200	1/2	3-1/2	803-1905



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 0°

1 Flute Straight "O" Flute Edge Rounding

D1	L1	D2	L2	Opening	Radius	Small Diameter	Tip to Radius	Part#
1/4	3/8	1/4	2-1/2	5/32	1/8	.195	1/16	806-2001
1/4	3/8	1/4	2-1/2	7/32	3/16	.180	1/16	806-2002
1/4	3/8	1/4	2-1/2	9/32	1/4	.163	1/16	806-2003



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 30°

1 Flute Spiral "O" Flute Edge Rounding

D1	L1	D2	L2	Opening	Radius	Small Diameter	Tip to Radius	Part#
1/4	3/8	1/4	2-1/2	5/32	1/8	.195	1/16	806-2101
1/4	3/8	1/4	2-1/2	7/32	3/16	.180	1/16	806-2102
1/4	3/8	1/4	2-1/2	9/32	1/4	.163	1/16	806-2103

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

2 Flute Straight Cut



Material Finish-Top: Excellent
Material Finish-Bottom: Excellent
End Point Type: Endmill

D1	L1	D2	L2	Part#
1/8	1/4	1/4	2	811-1801
3/16	3/8	1/4	2	811-1802
3/16	5/8	1/4	2	811-1803
3/16	5/8	1/4	2	811-1804 (Left Hand)
3/16	5/8	1/4	4	811-1805
1/4	3/8	1/4	2-1/2	811-1806
1/4	3/4	1/4	2-1/2	811-1807
1/4	3/4	1/4	2-1/2	811-1808 (Left Hand)
1/4	1-1/4	1/4	4	811-1809
3/8	5/8	3/8	2-1/2	811-1810
3/8	7/8	3/8	2-1/2	811-1811
3/8	7/8	3/8	2-1/2	811-1812 (Left Hand)
3/8	1-5/8	3/8	6	811-1813
1/2	1	1/2	3	811-1814
1/2	1	1/2	3	811-1815 (Left Hand)
1/2	2-1/8	1/2	6	811-1816

2 Flute Straight Cut (Natural Wood and Hard Plastics)



Material Finish-Top: Excellent
Material Finish-Bottom: Excellent
End Point Type: Plunge (Fishtail)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	811-1101
5/32	5/8	1/4	2	811-1102
3/16	3/4	1/4	2	811-1103
7/32	3/4	1/4	2-1/2	811-1104
1/4	7/8	1/4	2-1/2	811-1105
1/4	7/8	1/4	2-1/2	811-1106 (Soft Plastics)
1/4	1	1/4	2-1/2	811-1107
1/4	1-1/8	1/4	3	811-1108
9/32	1	5/16	2-1/2	811-1109
5/16	1-1/8	5/16	3	811-1110
5/16	1-1/8	1/2	3	811-1111
3/8	1-1/8	3/8	3	811-1112
3/8	1-1/4	3/8	3	811-1114
3/8	1-1/4	1/2	3	811-1115
7/16	1	1/2	3	811-1116
1/2	1-1/8	1/2	3	811-1117
1/2	1-1/4	1/2	3-1/2	811-1119
1/2	1-5/8	1/2	3-1/2	811-1120
17/32	1-1/8	1/2	3	811-1122
5/8	2-1/8	5/8	4	811-1123
3/4	1-5/8	3/4	4	811-1124

Cutting Edge Tolerance: +.000 -.003
Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Plunge (Fishtail)

2 Flute Straight Flute "V" Bottom

D1	L1	D2	L2	Part#
3/16	5/8	1/4	2	805-1301
1/4	3/4	1/4	2	805-1302
3/8	3/4	3/8	2-1/2	805-1303



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point Type: Endmill

2 Flute "O" Flute Straight Cut (Soft Plastics)

D1	L1	D2	L2	Part#
1/8	5/16	1/4	2	811-1401
1/8	1/2	1/4	2	811-1402
1/8	5/8	1/4	4	811-1403
3/16	3/8	1/4	2	811-1404
3/16	5/8	1/4	2	811-1405
3/16	1	1/4	4	811-1406
1/4	3/8	1/4	2-1/2	811-1407
1/4	1	1/4	2-1/2	811-1408
1/4	1	1/4	2-1/2	811-1409 (Left Hand)
1/4	1	1/4	3-1/4	811-1410
1/4	1-1/4	1/4	4	811-1411
3/8	7/8	3/8	2-1/2	811-1412
3/8	1	3/8	4	811-1413
1/2	1	1/2	3	811-1414
1/2	1	1/2	4	811-1415
1/2	1-3/4	1/2	4	811-1416
1/2	2-1/8	1/2	6	811-1417



Designed for rounding the edge of sheets or parts. They come in both single edge and double edge.
 Usage: Edge rounding of parts
 Material: SP, HP, SSP

2 Flute Straight "O" Flute Edge Rounding

D1	L1	D2	L2	Opening	Radius	Small Diameter	Tip to Radius	Part#
1/4	3/8	1/4	2-1/2	5/32	1/8	.195	1/16	806-2201
1/4	3/8	1/4	2-1/2	7/32	3/16	.180	1/16	806-2202
1/4	3/8	1/4	2-1/2	9/32	1/4	.163	1/16	806-2203



Designed for rounding the edge of sheets or parts. They come in both single edge and double edge.
 Usage: Edge rounding of parts
 Material: SP, HP, SSP

2 Flute Straight "V" Flute Edge Rounding

D1	L1	D2	L2	Opening	Radius	Small Diameter	Tip to Radius	Part#
3/8	3/8	3/8	2-1/2	5/32	1/8	.320	1/16	806-2301
3/8	3/8	3/8	2-1/2	7/32	3/16	.305	1/16	806-2302
3/8	3/8	3/8	2-1/2	9/32	1/4	.288	1/16	806-2303
3/8	1/2	3/8	2-1/2	13/32	3/8	.255	1/16	806-2304
1/2	3/8	1/2	3	5/32	1/8	.445	1/16	806-2305
1/2	3/8	1/2	3	7/32	3/16	.430	1/16	806-2306
1/2	3/8	1/2	3	9/32	1/4	.413	1/16	806-2307
1/2	5/8	1/2	3	17/32	1/2	.347	1/16	806-2308

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

2 Flute Rout and Chamfer

D1	L1	D2	L2	Part#
1/4	3/16	3/8	2-1/4	806-1101
3/8	3/16	1/2	3	806-1102
1/4	1/4	3/8	2-1/4	806-1103
3/8	1/4	1/2	3	806-1104
1/4	5/16	3/8	2-1/4	806-1105
3/8	5/16	1/2	3	806-1106



Designed to provide up to a 1/16" top face chamfer and a finished side edge on plastic sheets or parts.

Usage: Rout and chamfer in plastic.

Material: SP, HP

2 Flute Upcut Spiral

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-2801
1/8	1/2	1/4	2	801-2802 (Left Hand)
5/32	1/2	1/4	2-1/2	801-2803
5/32	5/8	1/4	2	801-2804
3/16	3/4	3/16	2	801-2893
3/16	3/4	1/4	2	801-2843
3/16	3/4	1/4	2	801-2806 (Left Hand)
3/16	3/4	1/4	2-1/2	801-2807
7/32	3/4	1/4	2-1/2	801-2808
7/32	1	1/4	2-1/2	801-2809
1/4	7/8	1/4	2-1/2	801-2810
1/4	1	1/4	2-1/2	801-2812
1/4	1	1/4	2-1/2	801-2813 (Left Hand)
1/4	1-1/8	1/4	3	801-2814
9/32	1	5/16	2-1/2	801-2815
5/16	1-1/8	5/16	3	801-2816
5/16	1-1/4	5/16	3	801-2817
5/16	1-1/8	1/2	3	801-2818
5/16	1-1/8	1/2	3	801-2819 (Left Hand)
3/8	1	3/8	3	801-2820
3/8	1-1/8	3/8	3	801-2821
3/8	1-1/4	3/8	3	801-2823
3/8	1-1/4	3/8	3	801-2824 (Left Hand)
3/8	1-1/4	1/2	3	801-2825
7/16	1	1/2	3	801-2826
1/2	1-1/8	1/2	3	801-2827
1/2	1-1/4	1/2	3-1/2	801-2829
1/2	1-5/8	1/2	3-1/2	801-2830
1/2	1-5/8	1/2	3-1/2	801-2831 (Left Hand)
1/2	2-1/8	1/2	4	801-2833
17/32	1-1/8	1/2	3	801-2834
5/8	1-5/8	5/8	3-1/2	801-2835
5/8	2-1/8	5/8	4	801-2836
5/8	2-1/8	5/8	4	801-2837 (Left Hand)
3/4	1-5/8	3/4	4	801-2838
3/4	2-1/8	3/4	4	801-2839
3/4	2-1/8	3/4	4	801-2840 (Left Hand)
1	3	1	5	801-2841



Material Finish-Top: Poor
Material Finish-Bottom: Excellent
End Point Type: Plunge (Fishtail)
Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Endmill
 Helix Angle: 30°

2 Flute Upcut Spiral (Hard Plastics and Aluminum)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	802-2401
5/32	9/16	1/4	2	802-2402
3/16	5/8	1/4	2	802-2403
3/16	5/8	1/4	2	802-2404 (Left Hand)
7/32	5/8	1/4	2-1/2	802-2405
1/4	3/4	1/4	2-1/2	802-2406
1/4	3/4	1/4	2-1/2	802-2407 (Left Hand)
9/32	3/4	3/8	2-1/2	802-2408
5/16	13/16	3/8	2-1/2	802-2409
3/8	7/8	3/8	2-1/2	802-2410
7/16	1	1/2	3	802-2411
1/2	1	1/2	3	802-2412



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Endmill
 Helix Angle: 30°

2 Flute Upcut Spiral Chipbreaker Finisher

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-1201
1/2	1-1/8	1/2	3	802-1202
1/2	1-5/8	1/2	3-1/2	802-1203
1/2	2-1/8	1/2	4	802-1204
1/2	1-7/8	1/2	3-1/2	802-1205
5/8	2-1/8	5/8	4	802-1206
3/4	2-1/8	3/4	4	802-1207



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point Type: Plunge (Fishtail)
 Helix Angle: 30°

2 Flute Upcut Spiral (High Impact)

D1	L1	D2	L2	Part#
1/4	7/8	1/4	2-1/2	801-2901
3/8	1-1/8	3/8	3	801-2902
3/8	1-1/4	3/8	3	801-2903
1/2	1-1/4	1/2	3	801-2904

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

2 Flute Upcut Spiral Chipbreaker Finisher (High Impact)

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-1901
1/2	1-1/8	1/2	3	802-1902
1/2	1-5/8	1/2	3-1/2	802-1903
1/2	2-1/8	1/2	4	802-1904



Material Finish-Top: Poor
Material Finish-Bottom: Excellent
End Point Type: Endmill
Helix Angle: 30°

2 Flute "O" Flute Upcut Slow Spiral (Soft and Hard Plastics)

D1	L1	D2	L2	Part#
1/4	3/8	1/4	2-1/2	801-2601
1/4	3/4	1/4	2-1/2	801-2602
3/8	1	3/8	3	801-2603
1/2	1-1/8	1/2	3-1/2	801-2604



Material Finish-Top: Poor
Material Finish-Bottom: Excellent
End Point Type: Endmill
Helix Angle: 11°

2 Flute Upcut Ball Wood Routers

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-3401
1/8	1/2	1/4	3	801-3402
3/16	3/4	1/4	2	801-3403
3/16	3/4	1/4	3	801-3404
1/4	7/8	1/4	2-1/2	801-3405
1/4	1	1/4	4	801-3406
3/8	1-1/8	3/8	3	801-3407
3/8	1-1/4	3/8	4	801-3408
1/2	1-1/8	1/2	3	801-3409
1/2	1-1/2	1/2	5	801-3411



Material Finish-Top: Poor
Material Finish-Bottom: Excellent
Helix Angle: 30°

2 Flute Upcut Bottom Surface

D1	L1	D2	L2	Part#
1/8	1/4	1/8	2	806-1401
1/8	1/4	1/4	2	806-1402
1/4	3/8	1/4	2	806-1403
3/8	5/8	3/8	2-1/2	806-1404
1/2	7/8	1/2	3	806-1405



Material Finish-Top: Poor
Material Finish-Bottom: Excellent
Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point Type: Plunge (Fishtail)
 Helix Angle: 30°

2 Flute Downcut Spiral

D1	L1	D2	L2	Part#
1/8	1/2	1/8	2	801-2203
1/8	1/2	1/4	2	801-2201
1/8	1/2	1/4	2	801-2202 (Left Hand)
5/32	1/2	1/4	2-1/2	801-2204
5/32	5/8	1/4	2	801-2244
3/16	3/4	3/16	2	801-2206
3/16	3/4	1/4	2	801-2207
3/16	3/4	1/4	2	801-2208
3/16	3/4	1/4	2-1/2	801-2209
7/32	3/4	1/4	2-1/2	801-2210
7/32	1	1/4	2-1/2	801-2211
1/4	7/8	1/4	2-1/2	801-2212
1/4	1	1/4	2-1/2	801-2214
1/4	1	1/4	2-1/2	801-2215 (Left Hand)
1/4	1-1/8	1/4	3	801-2216
9/32	1	5/16	2-1/2	801-2217
5/16	1-1/8	5/16	3	801-2218
5/16	1-1/4	5/16	3	801-2219
5/16	1-1/8	1/2	3	801-2220
5/16	1-1/8	1/2	3	801-2221 (Left Hand)
3/8	1	3/8	3	801-2222
3/8	1-1/8	3/8	3	801-2223
3/8	1-1/4	3/8	3	801-2225
3/8	1-1/4	3/8	3	801-2226 (Left Hand)
3/8	1-1/4	1/2	3	801-2227
7/16	1	1/2	3	801-2228
1/2	1-1/8	1/2	3	801-2229
1/2	1-1/4	1/2	3-1/2	801-2231
1/2	1-5/8	1/2	3-1/2	801-2232
1/2	1-5/8	1/2	3-1/2	801-2233 (Left Hand)
1/2	2-1/8	1/2	4	801-2235
17/32	1-1/8	1/2	3	801-2236
5/8	1-5/8	5/8	3-1/2	801-2237
5/8	2-1/8	5/8	4	801-2238
5/8	2-1/8	5/8	4	801-2239 (Left Hand)
3/4	1-5/8	3/4	4	801-2240
3/4	2-1/8	3/4	4	801-2241
3/4	2-1/8	3/4	4	801-2242 (Left Hand)
1	3	1	5	801-2243

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

2 Flute Downcut Spiral (Hard Plastics and Aluminum)



Material Finish-Top: Good
Material Finish-Bottom: Poor
End Point Type: Endmill
Helix Angle: 30°

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-2401
5/32	9/16	1/4	2	801-2402
3/16	5/8	1/4	2	801-2403
7/32	5/8	1/4	2-1/2	801-2404
1/4	3/4	1/4	2-1/2	801-2405
9/32	3/4	3/8	2-1/2	801-2406
5/16	13/16	3/8	2-1/2	801-2407
3/8	7/8	3/8	2-1/2	801-2408
7/16	1	1/2	3	801-2409
1/2	1	1/2	3	801-2410

2 Flute Downcut Spiral Chipbreaker Finisher



Material Finish-Top: Good
Material Finish-Bottom: Poor
End Point Type: Endmill
Helix Angle: 30°

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-1001
1/2	1-1/8	1/2	3	802-1002
1/2	1-5/8	1/2	3-1/2	802-1003
1/2	1-7/8	1/2	3-1/2	802-1004
1/2	2-1/8	1/2	4	802-1005
5/8	2-1/8	5/8	4	802-1006
3/4	2-1/8	3/4	4	802-1007

2 Flute Downcut Spiral (High Impact)



Material Finish-Top: Excellent
Material Finish-Bottom: Poor
End Point Type: Plunge (Fishtail)
Helix Angle: 30°

D1	L1	D2	L2	Part#
1/4	7/8	1/4	2-1/2	801-2501
3/8	7/8	3/8	3	801-2502
3/8	1-1/8	3/8	3	801-2503
3/8	1-1/4	3/8	3	801-2504
1/2	1-1/4	1/2	3	801-2505

2 Flute Downcut Spiral Chipbreaker Finisher (High Impact)



Material Finish-Top: Good
Material Finish-Bottom: Poor
End Point Type: Endmill
Helix Angle: 30°

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-1801
1/2	1-1/8	1/2	3	802-1802
1/2	1-5/8	1/2	3-1/2	802-1803
1/2	2-1/8	1/2	4	802-1804

Cutting Edge Tolerance: +.000 -.003
Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point Type: Endmill
 Helix Angle: 11°

2 Flute "O" Flute Downcut Slow Spiral (Hard Plastics & Aluminum)

D1	L1	D2	L2	Part#
1/4	3/8	1/4	2-1/2	801-2301
1/4	3/4	1/4	2-1/2	801-2302
3/8	1	3/8	3	801-2303
1/2	1-1/8	1/2	3-1/2	801-2304



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

2 Flute Compression

D1	L1	D2	L2	Part#
1/4	7/8	1/4	2-1/2	803-1409
3/8	1-1/8	3/8	3	803-1401
1/2	1	1/2	3	803-1402
1/2	1-1/8	1/2	3	803-1403
1/2	1-5/16	1/2	3	803-1411
1/2	1-3/8	1/2	3-1/2	803-1404
1/2	1-5/8	1/2	4	803-1405
5/8	2-1/4	5/8	5	803-1406
3/4	1-7/8	3/4	4	803-1407
3/4	2-1/2	3/4	5	803-1408



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

2 Flute Compression (High Wear)

D1	L1	D2	L2	Part#
3/8	7/8	3/8	3	803-1301
3/8	7/8	3/8	3	803-1321*
1/2	7/8	1/2	3	803-1302
1/2	7/8	1/2	3	803-1322*
1/2	1-1/8	1/2	3	803-1308
1/2	1-1/4	1/2	3	803-1303
1/2	1-3/8	1/2	3-1/2	803-1304
1/2	1-5/8	1/2	3-1/2	803-1305

* Indicates Mortise Compression

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

2 Flute Mortise Compression

D1	L1	Mortise	D2	L2	Part#
1/4	7/8	.188	1/4	2-1/2	803-2001
3/8	7/8	.188	3/8	3	803-2002
3/8	1-1/8	.188	3/8	3	803-2005
3/8	1-1/8	.188	3/8	3	803-2012 (Left Hand)
1/2	7/8	.200	1/2	3	803-2003
1/2	1-3/8	.200	1/2	3-1/2	803-2004



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

2 Flute Chipbreaker Finisher Compression

D1	L1	D2	L2	Part#
3/8	7/8	3/8	3	803-1001
3/8	1-1/8	3/8	3	803-1002
1/2	7/8	1/2	3	803-1014
1/2	1	1/2	3	803-1003
1/2	1-1/8	1/2	3	803-1004
1/2	1-3/8	1/2	3-1/2	803-1005
1/2	1-5/8	1/2	4	803-1006
5/8	2-1/4	5/8	5	803-1007
3/4	1-7/8	3/4	4	803-1008



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

2 Flute T - Slot Cutter

D1	L1	D2	L2	Part#
3/8	3/8	1/4	1-5/8	806-1501

2 Flute Ball Round Bottom - Slow Helix

D1	L1	D2	L2	Part#
1/8	3/8	1/4	2	805-1351
3/16	5/8	1/4	2	805-1352
1/4	3/4	1/4	2	805-1353
3/8	3/4	3/8	2-1/4	805-1354



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Ball
 Helix Angle: 3°

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 0°

3 Flute Straight Flute Router

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	811-1301
1/4	3/4	1/4	2-1/2	811-1302



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

3 Flute Upcut Spiral Millend (Hard Plastics)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-1201
3/16	5/8	1/4	2	801-1202
1/4	3/4	1/4	2-1/2	801-1203
3/8	1-1/4	3/8	3	801-1204



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 10°

3 Flute Upcut Slow Spiral Finisher

D1	L1	D2	L2	Part#
1/4	3/8	1/4	3	802-2501
1/4	7/8	1/4	3	802-2502
3/8	5/8	3/8	3	802-2503
3/8	1-1/8	3/8	3	802-2504
1/2	1-1/8	1/2	3-1/2	802-2507
1/2	1-5/8	1/2	4	802-2509
1/2	2-1/8	1/2	4-1/2	802-2510
3/4	1-5/8	3/4	4	802-2511
3/4	2-1/8	3/4	5	802-2512



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

3 Flute Upcut Spiral Chipbreaker Finisher

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-2101
1/2	1-1/8	1/2	3	802-2102
1/2	1-3/8	1/2	3-1/2	802-2103
1/2	1-5/8	1/2	3-1/2	802-2104
5/8	1-5/8	5/8	4	802-2105
3/4	1-5/8	3/4	4	802-2106
3/4	2-1/4	3/4	4	802-2107
3/4	3-1/8	3/4	6	802-2108

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

3 Flute Upcut Slow Helix Ripper

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3-1/2	802-1601
1/2	1-1/8	1/2	3-1/2	802-1602
1/2	1-5/8	1/2	4	802-1603
5/8	1-5/8	5/8	4	802-1604
5/8	2-1/8	5/8	5	802-1605
3/4	1-5/8	3/4	4	802-1606
3/4	2-1/8	3/4	5	802-1607



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 10°

3 Flute Upcut High Helix Ripper

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3-1/2	802-1701
1/2	1-1/8	1/2	3-1/2	802-1703
1/2	1-5/8	1/2	4	802-1704
5/8	1-5/8	5/8	4	802-1705
5/8	2-1/2	5/8	5	802-1706
3/4	1-5/8	3/4	4	802-1709
3/4	2-1/8	3/4	5	802-1710



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

3 Flute Upcut Spiral Hogger (High Impact)

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-2701
1/2	1-1/8	1/2	3	802-2702
1/2	1-5/8	1/2	3-1/2	802-2703
1/2	2-1/8	1/2	4	802-2704



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

3 Flute Downcut Spiral

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-1001
3/16	5/8	1/4	2	801-1002
1/4	3/4	1/4	2-1/2	801-1003



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 10°

3 Flute Downcut Slow Spiral Finisher

D1	L1	D2	L2	Part#
1/4	3/8	1/4	3	802-2301
1/4	7/8	1/4	3	802-2302
3/8	5/8	3/8	3	802-2303
3/8	1-1/8	3/8	3	802-2310
1/2	1-1/8	1/2	3-1/2	802-2311
1/2	1-5/8	1/2	4	802-2312
1/2	2-1/8	1/2	4-1/2	802-2307
3/4	1-5/8	3/4	4	802-2313
3/4	2-1/8	3/4	5	802-2309



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 30°

3 Flute Downcut Spiral Chipbreaker Finisher

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-2001
1/2	1-1/8	1/2	3	802-2002
1/2	1-3/8	1/2	3-1/2	802-2003
1/2	1-5/8	1/2	3-1/2	802-2004
5/8	1-5/8	5/8	4	802-2005
3/4	1-5/8	3/4	4	802-2006
3/4	2-1/4	3/4	5	802-2007
3/4	3-1/8	3/4	6	802-2008



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 10°

3 Flute Downcut Slow Helix Ripper

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3-1/2	802-1401
1/2	1-1/8	1/2	3-1/2	802-1402
1/2	1-5/8	1/2	4	802-1404
5/8	1-5/8	5/8	4	802-1405
5/8	2-1/8	5/8	5	802-1406
3/4	1-5/8	3/4	4	802-1407
3/4	2-1/8	3/4	5	802-1408



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 30°

3 Flute Downcut Spiral High Helix Ripper

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3-1/2	802-1501
1/2	1-1/8	1/2	3-1/2	802-1503
1/2	1-5/8	1/2	4	802-1504
5/8	1-5/8	5/8	4	802-1505
5/8	2-1/8	5/8	5	802-1506
3/4	1-5/8	3/4	4	802-1509
3/4	2-1/8	3/4	5	802-1510

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

3 Flute Downcut Spiral Hogger (High Impact)

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	802-2201
1/2	1-1/8	1/2	3	802-2202
1/2	1-5/8	1/2	3-1/2	802-2203
1/2	2-1/8	1/2	4	802-2204



Material Finish-Top: Good
Material Finish-Bottom: Poor
End Point: Endmill
Helix Angle: 30°

3 Flute Compression

D1	L1	D2	L2	Part#
3/8	1-1/8	3/8	3	803-1501
1/2	1-1/8	1/2	3	803-1502
1/2	1-5/8	1/2	3-1/2	803-1503
3/4	2	3/4	4	803-1504



Material Finish-Top: Excellent
Material Finish-Bottom: Excellent
Helix Angle: 30°
End Point: Endmill

3 Flute Compression (High Wear)

D1	L1	D2	L2	Part#
3/8	7/8	3/8	3	803-1601*
3/8	7/8	3/8	3	803-1621



Material Finish-Top: Excellent
Material Finish-Bottom: Excellent
Helix Angle: 30°
End Point: Endmill

* Indicates Mortise Compression

3 Flute Mortise Compression

D1	L1	Mortise	D2	L2	Part#
3/8	7/8	.200	3/8	3	803-2101
1/2	7/8	.200	1/2	3	803-2102
1/2	1-3/8	.200	1/2	3-1/2	803-2103
3/4	2	.200	3/4	4	803-2104



Material Finish-Top: Excellent
Material Finish-Bottom: Excellent
Helix Angle: 30°
End Point: Endmill

3 Flute Upcut Lock Mortise

D1	L1	Depth of Cut	D2	L2	Part#
5/8	2	4-1/2	5/8	6-1/2	802-1751



Material Finish-Top: Excellent
Material Finish-Bottom: Excellent
Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

4 Flute Upcut Spiral (Hard Plastics)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-1301
5/32	9/16	1/4	2	801-1302
3/16	5/8	1/4	2	801-1303
1/4	3/4	1/4	2-1/2	801-1304



Material Finish-Top: Poor
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

4 Flute Upcut Combination Spiral (High Speed)

D1	L1	D2	L2	Part#
1/2	1-1/8	1/2	3-1/2	804-1001
1/2	1-5/8	1/2	4	804-1002
1/2	2-1/8	1/2	4-1/2	804-1003
5/8	2-1/8	5/8	5	804-1004
3/4	2-1/8	3/4	5	804-1005



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 30°

4 Flute Downcut Spiral (Hard Plastics)

D1	L1	D2	L2	Part#
1/8	1/2	1/4	2	801-1101
5/32	9/16	1/4	2	801-1102
3/16	5/8	1/4	2	801-1103
1/4	3/4	1/4	2-1/2	801-1104



Material Finish-Top: Excellent
 Material Finish-Bottom: Poor
 End Point: Endmill
 Helix Angle: 30°

4 Flute Downcut Combination Spiral (High Velocity)

D1	L1	D2	L2	Part#
1/2	1-1/8	1/2	3-1/2	804-1101
1/2	1-5/8	1/2	4	804-1102
1/2	2-1/8	1/2	4	804-1103
5/8	2-1/8	5/8	5	804-1104
3/4	2-1/8	3/4	5	804-1105

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

4 Flute Compression

D1	L1	D2	L2	Part#
1/2	1	1/2	3	803-1701
1/2	1-1/8	1/2	3	803-1702
1/2	1-3/8	1/2	3-1/2	803-1703
1/2	1-5/8	1/2	4	803-1704
5/8	2-1/4	5/8	5	803-1705
3/4	1-7/8	3/4	4	803-1706
3/4	2-1/2	3/4	5	803-1707



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

4 Flute Combination Compression

D1	L1	D2	L2	Part#
1/2	1	1/2	3	803-1801
1/2	1-1/8	1/2	3	803-1802
1/2	1-3/8	1/2	3-1/2	803-1803
1/2	1-5/8	1/2	4	803-1804
5/8	2-1/4	5/8	5	803-1805
3/4	1-7/8	3/4	4	803-1806
3/4	2-1/2	3/4	5	803-1807



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

4 Flute Mortise Compression

D1	L1	D2	L2	Part#
1/2	7/8	1/2	3	803-2201
1/2	1-3/8	1/2	3-1/2	803-2202



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Round
 Helix Angle: Straight

Flush Trim Laminate Trimmer (Plastic Laminates)

D1	L1	D2	L2	Part#
1/4	1/4	1/4	1-1/2	805-1001
1/4	3/8	1/4	1-1/2	805-1000



Material Finish-Top: Excellent
 Material Finish-Bottom: Excellent
 End Point: Round
 Helix Angle: Straight

7° Bevel Laminate Trimmer (Plastic Laminates)

D1	L1	D2	L2	Part#
1/4	1/4	1/4	1-1/2	805-1002



Material Finish-Top: Good
 Material Finish-Bottom: Good
 End Point: Drill

Diamond Bur Fiberglass Finisher (Hard Plastics)

D1	L1	D2	L2	Part#
1/4	3/4	1/4	2-1/2	802-2601
1/4	1	1/4	3	802-2604
3/8	7/8	3/8	2-1/2	802-2605
1/2	1	1/2	3	802-2608



Material Finish-Top: Good
 Material Finish-Bottom: Good
 End Point: Endmill
 Helix Angle: Upcut 20°,
 Downcut 15°

Aramid Router

D1	L1	D2	L2	Part#
1/4	3/4	1/4	2-1/2	802-2603
3/8	7/8	3/8	2-1/2	802-2607
1/2	1	1/2	3	802-2610

Cutting Edge Tolerance: +.000 -.003
 Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

2 Flute Diamond Bur Fiberglass Finisher Drill End

D1	L1	D2	L2	Part#
1/4	3/4	1/4	2-1/2	802-2602
3/8	7/8	3/8	2-1/2	802-2606
1/2	1	1/2	3	802-2609



Material Finish-Top: Good
Material Finish-Bottom: Good
End Point: Drill

4 Flute Upcut Fiberglass Router

D1	L1	D2	L2	Part#
3/8	5/8	3/8	3	801-1351
3/8	1-1/8	3/8	3	801-1352
1/2	5/8	1/2	3-1/2	801-1353
1/2	1-1/8	1/2	3-1/2	801-1354



Material Finish-Top: Poor
Material Finish-Bottom: Excellent
End Point: Endmill
Helix Angle: 30°

4 Flute Downcut Fiberglass Router

D1	L1	D2	L2	Part#
3/8	5/8	3/8	3	801-1151
3/8	1-1/8	3/8	3	801-1152
1/2	5/8	1/2	3-1/2	801-1153
1/2	1-1/8	1/2	3-1/2	801-1154



Material Finish-Top: Excellent
Material Finish-Bottom: Poor
End Point: Endmill
Helix Angle: 30°

Cutting Edge Tolerance: +.000 -.003
Shank Tolerance: h6

D1 - Cutting Diameter L1 - Cutting Length D2 - Shank Diameter L2 - Overall Length

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