

Solid Carbide Router Bits



NAPGLADU

Delivering Productivity

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Router Bit Reference Guide

Refer to the reference guide below to ensure maximum performance for your specific applications.

Flute Geometry

Single Flute Router Bits

- Designed for faster feed rates in soft material. Use for acceptable finishes.

Multiple Flute (2+) Router Bits

- Designed for harder materials. Produces an excellent finish.

Cutting Edge Geometry

Straight Flute Router Bits

- Use for plastic and soft material. Excellent choice for hand feed operations.

Spiral Flute Router Bits

- Use on automatic feed operations only

Upcut Spiral Router Bits

- Produces best finish on bottom of material. Evacuates chips in upward direction.
- Must have good hold down or vacuum table to secure part.

Downcut Spiral Router Bits

- Produces the best finish on the top of the material. Downward direction of chip flow.
- Good choice for small parts and moderate to poor hold down or vacuum table.

Compression Spiral Router Bits

- Best choice for application's where double laminated material needs a flawless edge or where an excellent top and bottom finish is desired. Sideward chip flow direction.



Crescent Point

Standard end point for single flute router bits. Used for easy plunge routing and flat bottom cuts.



Plunge Point

Used for a majority of woodworking router bits where a strong aggressive plunge point is desired. Can be used in ramp plunge applications as well.



End Mill Point

Used predominately in the plastic cutting industry to ensure smooth flat bottom cuts. Also found on 3 and 4 flute router bits. Best results can be obtained using ramp plunge applications.

Cutting Tool Selection Guide

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Instructions	Upcut Spiral Bits				Downcut Spiral Bits				Compression Spiral Bits				Mortise Compression Spiral Bits				Chipbreaker Finisher Spiral Bits				Low Helix Finisher																
	1 Flute Upcut Spiral (pg. 6)	1 Flute Upcut Spiral (Hard Plastics and Aluminum) (pg. 6)	2 Flute Upcut Spiral (pg. 7-8)	2 Flute Upcut Spiral (Hard Plastics and Aluminum) (pg. 8)	2 Flute Upcut Spiral (High Impact) (pg. 9, 39)	3 Flute Upcut Spiral (Fiber Reinforced Plastics) (pg. 9)	4 Flute Upcut Spiral (Fiber Reinforced Plastics) (pg. 9)	1 Flute Downcut Spiral (pg. 10)	1 Flute Downcut Spiral (Fiber Reinforced Plastics & Aluminum) (pg. 10)	2 Flute Downcut Spiral (pg. 11-12)	2 Flute Downcut Spiral (Hard Plastics and Aluminum) (pg. 12)	2 Flute Downcut Spiral (High Impact) (pg. 13, 39)	3 Flute Downcut Spiral (Fiber Reinforced Plastics) (pg. 13)	4 Flute Downcut Spiral (Fiber Reinforced Plastics) (pg. 13)	1 Flute Compression Spiral (pg. 14)	2 Flute Compression Spiral (pg. 14, 40)	2 Flute Compression Spiral (High Wear) (pg. 15)	3 Flute Compression Spiral (pg. 15, 40)	4 Flute Compression Spiral (pg. 15)	1 Flute Mortise Compression Spiral (pg. 16)	2 Flute Mortise Compression Spiral (pg. 16, 40)	3 Flute Mortise Compression Spiral (pg. 17, 40)	3 Flute Mortise Compression Spiral (High Wear) (pg. 17)	4 Flute Mortise Compression Spiral (pg. 17)	2 Flute Chipbreaker Finisher Upcut Spiral (pg. 18)	2 Flute Chipbreaker Finisher Upcut Spiral (High Impact) (pg. 18)	2 Flute Chipbreaker Finisher Downcut Spiral (High Impact) (pg. 18)	2 Flute Chipbreaker Finisher Downcut Spiral (pg. 19)	2 Flute Chipbreaker Finisher Compression Spiral (pg. 19)	3 Flute Chipbreaker Finisher Upcut Spiral (pg. 20, 39)	3 Flute Chipbreaker Finisher Downcut Spiral (pg. 20, 39)	3 Flute Low Helix Finisher Upcut (pg. 21)	3 Flute Low Helix Finisher Downcut (pg. 21)				
Softwoods	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Hardwoods	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Softwood Plywood														✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Hardwood Plywood														✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Raw MDF & Particle Board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Laminated Particle Board & MDF														✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Laminated Plywood														✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Soft Ductile Plastics • ABS • HDPE • Polypropylene • PVC • Acrylic-Extruded • Polycarbonate • Polystyrene • Polyethylene			✓						✓																												
Hard Brittle Plastics • Acrylic-cast • Vinyl • PVC • Nylon • Melamine																																			✓	✓	
Fiber Reinforced Plastics • Fiberglass • Phenolics • Acetal • Aramid Fiber		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																								
Solid Surface Materials • Corian® • Veritek® • Fountainhead® • Avonite® • Swanstone® • Cast Polymers			✓	✓					✓	✓																								✓	✓		
Plastic Laminated Materials • Formica® Brand • Wilsonart®																																					
Aluminum	✓	✓					✓	✓																													

Note: All recommended feed rates in this catalog are based on 18,000 RPM spindle speed. If your spindle speed is different please adjust accordingly. (i.e.- 20,000 RPM increase feed rate by 10%)

Tool Selection Guide

Instructions	Rougher Bits										"O" Flute Bits										Straight Cut Bits		Specialty Spiral Bits																											
	3 Flute Low Helix Rougher Upcut Spiral (pg. 22)	3 Flute High Helix Rougher Upcut Spiral (pg. 22)	3 Flute Low Helix Rougher Downcut Spiral (pg. 23)	3 Flute High Helix Rougher Downcut Spiral (pg. 23)	3 Flute Rougher Upcut Spiral (High Impact) (pg. 24)	3 Flute Rougher Downcut Spiral (High Impact) (pg. 24)	4 Flute Rougher/Finisher Hybrid Upcut Spiral (High Speed) (pg. 24)	4 Flute Rougher/Finisher Hybrid Downcut Spiral (High Speed) (pg. 25)	4 Flute Rougher/Finisher Hybrid Compression Spiral (High Speed) (pg. 25)	1 Flute "O" Upcut Spiral (Soft & Hard Plastics) (pg. 26, 40)	1 Flute "O" Upcut Spiral (Soft & Hard Plastics-metric) (pg. 27)	1 Flute "O" Upcut Spiral (Hard Plastics) (pg. 28)	1 Flute "O" Upcut Spiral (Hard Plastics-metric) (pg. 29)	1 Flute "O" Downcut Spiral (Soft & Hard Plastics) (pg. 30)	1 Flute "O" Downcut Spiral (Soft & Hard Plastics-metric) (pg. 30-31)	1 Flute "O" Downcut Spiral (Hard Plastics) (pg. 31)	1 Flute "O" Downcut Spiral (Hard Plastics-metric) (pg. 32)	1 Flute "O" Straight Cut (Soft & Hard Plastics) (pg. 33)	1 Flute "O" Straight Cut (Softwoods, Soft & Hard Plastics) (pg. 34)	2 Flute "O" Upcut Spiral Low Helix (Soft and Hard Plastics) (pg. 34)	2 Flute "O" Downcut Spiral Low Helix (Soft and Hard Plastics) (pg. 35)	2 Flute "O" Straight Cut (Hard Plastics) (pg. 35)	2 Flute "O" Straight Cut (Soft and Hard Plastics) (pg. 36)	1 Flute Straight Cut "V" Flute (pg. 37)	2 Flute Straight Cut (Hard Plastics) (pg. 37)	2 Flute Straight Cut (pg. 38)	Diamond Burr – Fiberglass Finisher (Hard Plastics) (pg. 41)	2 Flute Diamond Burr – Fiberglass Finisher (Hard Plastics) (pg. 41)	2 Flute Compression Finisher (Aramid Fiber Composites) (pg. 41)	Flush Trim Laminate Trimmer (Plastic Laminates) (pg. 41)	7° Bevel Laminate Trimmer (Plastic Laminates) (pg. 41)																			
Softwoods	✓	✓	✓	✓	✓	✓	✓	✓										✓					✓		✓																									
Hardwoods	✓	✓	✓	✓	✓	✓	✓	✓																✓		✓																								
Softwood Plywood	✓	✓	✓	✓	✓	✓	✓	✓																✓		✓																								
Hardwood Plywood	✓	✓	✓	✓	✓	✓	✓	✓																✓		✓																								
Raw MDF & Particleboard	✓	✓	✓	✓	✓	✓	✓	✓																✓		✓																								
Laminated Particle Board & MDF								✓																																										
Laminated Plywood								✓																																										
Soft Ductile Plastics •ABS •HDPE •Polypropylene •PVC •Acrylic- •Polycarbonate Extruded •UHMW •Polystyrene •Polyethylene									✓	✓			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓																											
Hard Brittle Plastics •Acrylic-cast •Vinyl •PVC •Nylon •Melamine									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓																								
Fiber Reinforced Plastics •Fiberglass •Phenolics •Acetal •Aramid Fiber																							✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Solid Surface Materials •Corian® •Veritek® •Fountainhead® •Avonite® •Swanstone® •Cast Polymers									✓	✓	✓	✓	✓	✓	✓	✓							✓		✓	✓	✓																							
Plastic Laminated Materials •Formica® Brand •Wilsonart®																																																		
Aluminum																																																		

High Impact: Designed for extreme routing conditions. Use for rapid plunging, slotting and peripheral routing. Free cutting.
High Wear: Utilizes a carbide grade with superior wear resistance. Use on Melamine products with MDF and particleboard substrates only.
High Speed: Recommended for those applications that have excellent hold down and dust evacuation where extreme feed rates are desired.



Upcut Spiral Solid Carbide Router Bits

A


Material: Feed Rates

Softwoods: 150-300 IPM
 Hardwoods: 150-300 IPM
 Raw MDF & Particleboard: 150-300 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent
 bottom finish.

B

1 Flute Upcut Spiral

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS299	1/8	1/2	1/4	2	30°
RS315	3/16	3/4	1/4	2	30°
RS318	1/4	7/8	1/4	2-1/2	30°
RS319	1/4	1	1/4	2-1/2	30°
RS321	5/16	1-1/8	5/16	3	30°
RS322	3/8	1-1/8	3/8	3	30°
RS323	1/2	1-1/8	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

H

I


Material: Feed Rates

Fiber Reinforced Plastics: 100 IPM
 Aluminum: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent
 bottom finish.

J

1 Flute Upcut Spiral Hard Plastics and Aluminum

K

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS680	1/8	1/2	1/4	2	30°
RS681	5/32	9/16	1/4	2	30°
RS682	3/16	5/8	1/4	2	30°
RS683	7/32	5/8	1/4	2-1/2	30°
RS684	1/4	3/4	1/4	2-1/2	30°
RS685	9/32	3/4	3/8	2-1/2	30°
RS686	5/16	13/16	3/8	2-1/2	30°
RS687	3/8	7/8	3/8	2-1/2	30°
RS688	7/16	1	1/2	3	30°
RS689	1/2	1	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

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Upcut Spiral Solid Carbide Router Bits



Material: Feed Rates

Softwoods: 200-450 IPM
 Solid Surface: 150-200 IPM
 Soft Ductile Plastics: 200 IPM
 Raw MDF & Particleboard: 200-450 IPM

End Point: Finish Quality

End Point Style: Plunge Point
 Optimized for excellent bottom finish.

2 Flute Upcut Spiral

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS112	1/8	1/2	1/4	2	30°
RS113L	1/8	1/2	1/4	2	30°
RS116	5/32	1/2	1/4	2-1/2	30°
RS115	5/32	5/8	1/4	2	30°
RS117	3/16	3/4	1/4	2	30°
RS118L	3/16	3/4	1/4	2	30°
RS121	3/16	3/4	1/4	2-1/2	30°
RS119	7/32	3/4	1/4	2-1/2	30°
RS122	7/32	1	1/4	2-1/2	30°
RS123	1/4	7/8	1/4	2-1/2	30°
RS126	1/4	1	1/4	2-1/2	30°
RS127L	1/4	1	1/4	2-1/2	30°
RS129	1/4	1-1/8	1/4	3	30°
RS131	9/32	1	5/16	2-1/2	30°
RS132	5/16	1-1/8	5/16	3	30°
RS135	5/16	1-1/4	5/16	3	30°
RS138	5/16	1-1/8	1/2	3	30°
RS133L	5/16	1-1/8	1/2	3	30°
RS139	3/8	1	3/8	3	30°
RS141	3/8	1-1/8	3/8	3	30°
RS144	3/8	1-1/4	3/8	3	30°
RS143L	3/8	1-1/4	3/8	3	30°
RS147	3/8	1-1/4	1/2	3	30°
RS145	7/16	1	1/2	3	30°
RS146	1/2	1-1/8	1/2	3	30°
RS149	1/2	1-1/4	1/2	3-1/2	30°
RS153	1/2	1-5/8	1/2	3-1/2	30°
RS154L	1/2	1-5/8	1/2	3-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.



Upcut Spiral Solid Carbide Router Bits

A



B

2 Flute Upcut Spiral (continued)

Material: Feed Rates

Softwoods: 200-450 IPM
 Solid Surface: 150-200 IPM
 Soft Ductile Plastics: 200 IPM
 Raw MDF & Particleboard: 200-450 IPM

End Point: Finish Quality

End Point Style: Plunge Point
 Optimized for excellent bottom finish.

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS156	1/2	2-1/8	1/2	4	30°
RS157	17/32	1-1/8	1/2	3	30°
RS159	5/8	1-5/8	5/8	3-1/2	30°
RS162	5/8	2-1/8	5/8	4	30°
RS163L	5/8	2-1/8	5/8	4	30°
RS165	3/4	1-5/8	3/4	4	30°
RS168	3/4	2-1/8	3/4	4	30°
RS169L	3/4	2-1/8	3/4	4	30°
RS171	1	3	1	5	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

I



J

2 Flute Upcut Spiral Hard Plastics and Aluminum

Material: Feed Rates

Fiber Reinforced Plastics: 150 IPM
 Solid Surface: 150-200 IPM
 Aluminum: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent bottom finish.

K

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS780	1/8	1/2	1/4	2	30°
RS781	5/32	9/16	1/4	2	30°
RS782	3/16	5/8	1/4	2	30°
RS783L	3/16	5/8	1/4	2	30°
RS784	7/32	5/8	1/4	2-1/2	30°
RS383	1/4	3/4	1/4	2-1/2	30°
RS788L	1/4	3/4	1/4	2-1/2	30°
RS785	9/32	3/4	3/8	2-1/2	30°
RS786	5/16	13/16	3/8	2-1/2	30°
RS386	3/8	7/8	3/8	2-1/2	30°
RS787	7/16	1	1/2	3	30°
RS389	1/2	1	1/2	3	30°

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Upcut Spiral Solid Carbide Router Bits



2 Flute Upcut Spiral High Impact

Material: Feed Rates

Softwoods: 200-450 IPM
Hardwoods: 200-400 IPM
Raw MDF & Particleboard: 200-450 IPM

End Point: Finish Quality

End Point Style: Plunge Point
Optimized for excellent bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS941	1/4	7/8	1/4	2-1/2	30°
RS943	3/8	1-1/8	3/8	3	30°
RS945	3/8	1-1/4	3/8	3	30°
RS947	1/2	1-1/4	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



3 Flute Upcut Spiral Fiber Reinforced Plastics

Material: Feed Rates

Fiber Reinforced Plastics: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS430	1/8	1/2	1/4	2	30°
RS431	3/16	5/8	1/4	2	30°
RS432	1/4	3/4	1/4	2-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



4 Flute Upcut Spiral Fiber Reinforced Plastics

Material: Feed Rates

Fiber Reinforced Plastics: 100-300 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS433	1/8	1/2	1/4	2	15°
RS434	5/32	9/16	1/4	2	15°
RS435	3/16	5/8	1/4	2	15°
RS436	1/4	3/4	1/4	2-1/2	15°

All measurements are in inches unless otherwise specified. Metric size tools are available.

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Downcut Spiral Solid Carbide Router Bits

A


Material: Feed Rates

Softwoods: 150-300 IPM
 Hardwoods: 150-300 IPM
 Raw MDF & Particleboard: 150-300 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

B

1 Flute Downcut Spiral

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS380	1/8	1/2	1/4	2	30°
RS324	3/16	3/4	1/4	2	30°
RS325	1/4	7/8	1/4	2-1/2	30°
RS326	1/4	1	1/4	2-1/2	30°
RS328	5/16	1-1/8	5/16	3	30°
RS327	3/8	1-1/8	3/8	3	30°
RS329	1/2	1-1/8	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

H

I


Material: Feed Rates

Aluminum: 150 IPM
 Fiber Reinforced Plastics: 100 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

J

1 Flute Downcut Spiral Fiber Reinforced Plastics & Aluminum

K

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS440	1/8	1/2	1/4	2	30°
RS441	1/4	3/4	1/4	2-1/2	30°
RS442	5/16	13/16	3/8	2-1/2	30°
RS443	3/8	7/8	3/8	2-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

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Downcut Spiral Solid Carbide Router Bits



2 Flute Downcut Spiral

Material: Feed Rates

Softwoods: 200-450 IPM
 Hardwoods: 200-400 IPM
 Solid Surface: 150-200 IPM
 Soft Ductile Plastics: 200 IPM
 Raw MDF & Particleboard: 200-450 IPM

End Point: Finish Quality

End Point Style: Plunge Point
 Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS179Q	1/8	1/2	1/4	2	30°
RS181L	1/8	1/2	1/4	2	30°
RS180	1/8	1/2	1/8	2	30°
RS182	5/32	1/2	1/4	2-1/2	30°
RS183	5/32	5/8	1/4	2	30°
RS184	3/16	3/4	3/16	2	30°
RS186	3/16	3/4	1/4	2	30°
RS187L	3/16	3/4	1/4	2	30°
RS188	3/16	3/4	1/4	2-1/2	30°
RS189	7/32	3/4	1/4	2-1/2	30°
RS191	7/32	1	1/4	2-1/2	30°
RS192	1/4	7/8	1/4	2-1/2	30°
RS195	1/4	1	1/4	2-12	30°
RS196L	1/4	1	1/4	2-1/2	30°
RS198	1/4	1-1/8	1/4	3	30°
RS199	9/32	1	5/16	2-1/2	30°
RS211	5/16	1-1/8	5/16	3	30°
RS214	5/16	1-1/4	5/16	3	30°
RS217	5/16	1-1/8	1/2	3	30°
RS216L	5/16	1-1/8	1/2	3	30°
RS218	3/8	1	3/8	3	30°
RS219	3/8	1-1/8	3/8	3	30°
RS223	3/8	1-1/4	3/8	3	30°
RS224L	3/8	1-1/4	3/8	3	30°
RS226	3/8	1-1/4	1/2	3	30°
RS227	7/16	1	1/2	3	30°
RS228	1/2	1-1/8	1/2	3	30°
RS229	1/2	1-1/4	1/2	3-1/2	30°
RS232	1/2	1-5/8	1/2	3-1/2	30°
RS233L	1/2	1-5/8	1/2	3-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

A

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Downcut Spiral Solid Carbide Router Bits

A


Material: Feed Rates

Softwoods: 200-450 IPM
 Hardwoods: 200-400 IPM
 Solid Surface: 150-200 IPM
 Soft Ductile Plastics: 200 IPM
 Raw MDF & Particleboard: 200-450 IPM

End Point: Finish Quality

End Point Style: Plunge Point
 Optimized for excellent top finish.

B

C

2 Flute Downcut Spiral (continued)

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS235	1/2	2-1/8	1/2	4	30°
RS236	17/32	1-1/8	1/2	3	30°
RS238	5/8	1-5/8	5/8	3-1/2	30°
RS241	5/8	2-1/8	5/8	4	30°
RS242L	5/8	2-1/8	5/8	4	30°
RS244	3/4	1-5/8	3/4	4	30°
RS247	3/4	2-1/8	3/4	4	30°
RS248L	3/4	2-1/8	3/4	4	30°
RS249	1	3	1	6	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

I

J


Material: Feed Rates

Aluminum: 150 IPM
 Solid Surface: 150-200 IPM
 Fiber Reinforced Plastics: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

K

2 Flute Downcut Spiral

Hard Plastics and Aluminum

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS450	1/8	1/2	1/4	2	30°
RS451	5/32	9/16	1/4	2	30°
RS452	3/16	5/8	1/4	2	30°
RS453	7/32	5/8	1/4	2-1/2	30°
RS454	1/4	3/4	1/4	2-1/2	30°
RS455	9/32	3/4	3/8	2-1/2	30°
RS456	5/16	13/16	3/8	2-1/2	30°
RS457	3/8	7/8	3/8	2-1/2	30°
RS458	7/16	1	1/2	3	30°
RS459	1/2	1	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

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Downcut Spiral Solid Carbide Router Bits



2 Flute Downcut Spiral

High Impact

Material: Feed Rates

Softwoods: 200-450 IPM
Hardwoods: 200-400 IPM
Raw MDF & Particleboard: 200-450 IPM

End Point: Finish Quality

End Point Style: Plunge Point
Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS949	1/4	7/8	1/4	2-1/2	30°
RS951	3/8	7/8	3/8	3	30°
RS953	3/8	1-1/8	3/8	3	30°
RS955	3/8	1-1/4	3/8	3	30°
RS957	1/2	1-1/4	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



3 Flute Downcut Spiral

Fiber Reinforced Plastics

Material: Feed Rates

Fiber Reinforced Plastics: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS470	1/8	1/2	1/4	2	30°
RS471	3/16	5/8	1/4	2	30°
RS472	1/4	3/4	1/4	2-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



4 Flute Downcut Spiral

Fiber Reinforced Plastics

Material: Feed Rates

Fiber Reinforced Plastics: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS473	1/8	1/2	1/4	2	30°
RS474	5/32	9/16	1/4	2	30°
RS475	3/16	5/8	1/4	2	30°
RS476	1/4	3/4	1/4	2-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

Compression Spiral Solid Carbide Router Bits

A

B

C



Material: Feed Rates

Softwoods: 100-600 IPM
 Hardwoods: 100-600 IPM
 Softwood Plywood: 100-600 IPM
 Hardwood Plywood: 100-600 IPM
 Raw MDF & Particleboard: 100-500 IPM
 Laminated Plywood: 100-600 IPM
 Laminated Particleboard: 100-600 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

1 Flute Compression Spiral

D

E

F

G

H

I

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS500	1/8	3/8	1/4	2-1/2	30°
RS501	3/16	5/8	1/4	2-1/2	30°
RS279	1/4	7/8	1/4	2-1/2	30°
RS283	3/8	1-1/8	3/8	3	30°
RS504	1/2	1	1/2	3	30°
RS506	1/2	1-1/8	1/2	3	30°
RS286	1/2	1-3/8	1/2	3-1/2	30°
RS289	1/2	1-5/8	1/2	3-1/2	30°
RS339L	1/2	1-5/8	1/2	3-1/2	30°
RS508	5/8	2-1/4	5/8	4	30°
RS509	3/4	2	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

J

K



Material: Feed Rates

Softwoods: 400-1200 IPM
 Hardwoods: 400-1000 IPM
 Softwood Plywood: 400-1200 IPM
 Hardwood Plywood: 400-1000 IPM
 Raw MDF & Particleboard: 400-800 IPM
 Laminated Plywood: 400-1000 IPM
 Laminated Particleboard & MDF: 400-1200 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

2 Flute Compression Spiral

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS260	1/4	7/8	1/4	2-1/2	30°
RS291	3/8	1-1/8	3/8	3	30°
RS212	3/8	1-1/4	3/8	3	30°
RS290	1/2	1	1/2	3	30°
RS293	1/2	1-1/8	1/2	3	30°
RS213	1/2	1-5/16	1/2	3	30°
RS292	1/2	1-3/8	1/2	3-1/2	30°
RS295	1/2	1-5/8	1/2	4	30°
RS298	5/8	1-5/8	5/8	4	30°
RS294	5/8	2-1/4	5/8	5	30°
RS297	3/4	1-7/8	3/4	4	30°
RS215	3/4	2	3/4	4	30°
RS270	3/4	2-1/2	3/4	5	30°

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2 Flute Compression Spiral High Wear

Material: Feed Rates

Raw MDF & Particleboard: 400-800 IPM
Laminated Particleboard & MDF: 400-1200 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS911*	3/8	7/8	3/8	3	30°
RS915*	1/2	7/8	1/2	3	30°
RS917	1/2	1-1/4	1/2	3	30°
RS919	1/2	1-3/8	1/2	3-1/2	30°
RS921	1/2	1-5/8	1/2	3-1/2	30°

* indicates mortise compression bits. Metric size tools are available.



3 Flute Compression Spiral

Material: Feed Rates

Softwoods: 500-1600 IPM
Hardwoods: 500-1500 IPM
Softwood Plywood: 700-1800 IPM
Hardwood Plywood: 700-1600 IPM
Raw MDF & Particleboard: 600-1200 IPM
Laminated Plywood: 700-1600 IPM
Laminated Particleboard & MDF: 700-1800 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS510	3/8	1-1/8	3/8	3	30°
RS511	1/2	1-1/8	1/2	3	30°
RS512	1/2	1-5/8	1/2	3-1/2	30°
RS513	3/4	2	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



4 Flute Compression Spiral

Material: Feed Rates

Softwoods: 500-1600 IPM
Hardwoods: 500-1500 IPM
Softwood Plywood: 700-2400 IPM
Hardwood Plywood: 700-2200 IPM
Raw MDF & Particleboard: 600-1600 IPM
Laminated Plywood: 700-2200 IPM
Laminated Particleboard & MDF: 700-2400 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS975	1/2	1	1/2	3	30°
RS977	1/2	1-1/8	1/2	3	30°
RS979	1/2	1-3/8	1/2	3-1/2	30°
RS981	1/2	1-5/8	1/2	4	30°
RS983	5/8	2-1/4	5/8	5	30°
RS985	3/4	1-7/8	3/4	4	30°
RS987	3/4	2-1/2	3/4	5	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

Mortise Compression Spiral Solid Carbide Bits

A



B

C

Material: Feed Rates

Softwoods: 100-600 IPM
 Hardwoods: 100-600 IPM
 Softwood Plywood: 100-600 IPM
 Hardwood Plywood: 100-600 IPM
 Raw MDF & Particleboard: 100-500 IPM
 Laminated Plywood: 100-600 IPM
 Laminated Particleboard: 100-600 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

1 Flute Mortise Compression Spiral

D

E

F

G

Part No.	Hole Diameter	Edge Length	Upcut Edge Length	Shank Size	Overall Length	Helix Angle
RS520	1/4	7/8	.175	1/4	2-1/2	30°
RS411	3/8	7/8	.188	3/8	3	30°
RS413	1/2	7/8	.200	1/2	3	30°
RS412L	1/2	7/8	.200	1/2	3	30°
RS521	1/2	1-5/8	.200	1/2	3-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

H

I



J

K

Material: Feed Rates

Softwoods: 400-1200 IPM
 Hardwoods: 400-1000 IPM
 Softwood Plywood: 400-1200 IPM
 Hardwood Plywood: 400-1000 IPM
 Raw MDF & Particleboard: 400-800 IPM
 Laminated Plywood: 400-1000 IPM
 Laminated Particleboard & MDF: 400-1200 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

2 Flute Mortise Compression Spiral

Part No.	Hole Diameter	Edge Length	Upcut Edge Length	Shank Size	Overall Length	Helix Angle
RS414	1/4	7/8	.188	1/4	2-1/2	30°
RS522	3/8	7/8	.188	3/8	3	30°
RS415	3/8	1-1/8	.188	3/8	3	30°
RS523	1/2	7/8	.200	1/2	3	30°
RS524	1/2	1-3/8	.200	1/2	3-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

Mortise Compression Spiral Solid Carbide Bits



3 Flute Mortise Compression Spiral

Material: Feed Rates

Softwoods: 500-1600 IPM
 Hardwoods: 500-1500 IPM
 Softwood Plywood: 700-1800 IPM
 Hardwood Plywood: 700-1600 IPM
 Raw MDF & Particleboard: 600-1200 IPM
 Laminated Plywood: 700-1600 IPM
 Laminated Particleboard & MDF: 700-1800 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Upcut Edge Length	Shank Size	Overall Length	Helix Angle
RS525	3/8	7/8	.200	3/8	3	30°
RS526	1/2	7/8	.200	1/2	3	30°
RS527	1/2	1-3/8	.200	1/2	3-1/2	30°
RS528	3/4	2	.200	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



3 Flute Mortise Compression Spiral High Wear

Material: Feed Rates

Raw MDF & Particleboard: 600-1200 IPM
 Laminated Particleboard & MDF: 700-1800 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS913	3/8	7/8	3/8	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



4 Flute Mortise Compression Spiral

Material: Feed Rates

Softwoods: 500-1600 IPM
 Hardwoods: 500-1500 IPM
 Softwood Plywood: 700-2400 IPM
 Hardwood Plywood: 700-2200 IPM
 Raw MDF & Particleboard: 600-1600 IPM
 Laminated Plywood: 700-2200 IPM
 Laminated Particleboard & MDF: 700-2400 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Upcut Edge Length	Shank Size	Overall Length	Helix Angle
RS529	1/2	7/8	.200	1/2	3	30°
RS538	1/2	1-3/8	.200	1/2	3-1/2	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

Chipbreaker Finisher Solid Carbide Router Bits

A



2 Flute Chipbreaker Finisher Upcut Spiral

Material: Feed Rates

Softwoods: 400-1500 IPM
 Hardwoods: 400-1200 IPM
 Hardwood Plywood: 400-1200 IPM
 Raw MDF & Particleboard: 400-1000 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent bottom finish.

B

C

D

E

F

G

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS331	3/8	1-1/8	3/8	3	30°
RS332	1/2	1-1/8	1/2	3	30°
RS335	1/2	1-5/8	1/2	3-1/2	30°
RS338	1/2	2-1/8	1/2	4	30°
RS340	1/2	1-7/8	1/2	3-1/2	30°
RS341	5/8	2-1/8	5/8	4	30°
RS344	3/4	2-1/8	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

H



2 Flute Chipbreaker Finisher Upcut Spiral High Impact

Material: Feed Rates

Softwoods: 400-1500 IPM
 Hardwoods: 400-1200 IPM
 Hardwood Plywood: 400-1200 IPM
 Softwood Plywood: 400-1400 IPM
 Raw MDF & Particleboard: 400-1000 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent bottom finish.

I

J

K

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS959	3/8	1-1/8	3/8	3	30°
RS961	1/2	1-1/8	1/2	3	30°
RS963	1/2	1-5/8	1/2	3-1/2	30°
RS965	1/2	2-1/8	1/2	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



2 Flute Chipbreaker Finisher Downcut Spiral High Impact

Material: Feed Rates

Softwoods: 400-1500 IPM
 Hardwoods: 400-1200 IPM
 Softwood Plywood: 400-1400 IPM
 Hardwood Plywood: 400-1200 IPM
 Raw MDF & Particleboard: 400-1000 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for good top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS967A	3/8	1-1/8	3/8	3	30°
RS969	1/2	1-1/8	1/2	3	30°
RS971	1/2	1-5/8	1/2	3-1/2	30°
RS973	1/2	2-1/8	1/2	4	30°

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Chipbreaker Finisher Solid Carbide Router Bits



2 Flute Chipbreaker Finisher Downcut Spiral

Material: Feed Rates

Softwoods: 400-1500 IPM
 Hardwoods: 400-1200 IPM
 Softwood Plywood: 400-1400 IPM
 Hardwood Plywood: 400-1200 IPM
 Raw MDF & Particleboard: 400-1000 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for good top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS346	3/8	1-1/8	3/8	3	30°
RS347	1/2	1-1/8	1/2	3	30°
RS349	1/2	1-5/8	1/2	3-1/2	30°
RS350	1/2	1-7/8	1/2	3-1/2	30°
RS353	1/2	2-1/8	1/2	4	30°
RS356	5/8	2-1/8	5/8	4	30°
RS359	3/4	2-1/8	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



2 Flute Chipbreaker Finisher Compression Spiral

Material: Feed Rates

Softwoods: 400-1500 IPM
 Hardwoods: 400-1200 IPM
 Softwood Plywood: 400-1400 IPM
 Hardwood Plywood: 400-1200 IPM
 Raw MDF & Particleboard: 400-1000 IPM
 Laminated Plywood: 400-1200 IPM
 Laminated Particleboard & MDF: 400-1400 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS539	3/8	7/8	3/8	3	30°
RS540	3/8	1-1/8	3/8	3	30°
RS549	1/2	1-7/8	1/2	3	30°
RS541	1/2	1	1/2	3	30°
RS542	1/2	1-1/8	1/2	3	30°
RS543	1/2	1-3/8	1/2	3-1/2	30°
RS544	1/2	1-5/8	1/2	4	30°
RS545	5/8	2-1/4	5/8	5	30°
RS546	3/4	1-7/8	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K

Chipbreaker Finisher Solid Carbide Router Bits

A



B

3 Flute Chipbreaker Finisher Upcut Spiral

Material: Feed Rates

Softwoods: 500-1600 IPM
 Hardwoods: 500-1500 IPM
 Softwood Plywood: 700-1800 IPM
 Hardwood Plywood: 700-1600 IPM
 Raw MDF & Particleboard: 600-1200 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent
 bottom finish.

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS361	3/8	1-1/8	3/8	3	30°
RS362	1/2	1-1/8	1/2	3	30°
RS360	1/2	1-3/8	1/2	3	30°
RS363	1/2	1-5/8	1/2	3-1/2	30°
RS364	5/8	1-5/8	5/8	4	30°
RS366	3/4	1-5/8	3/4	4	30°
RS365	3/4	2-1/4	3/4	4	30°
RS370	3/4	3-1/8	3/4	6	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

I



J

3 Flute Chipbreaker Finisher Downcut Spiral

Material: Feed Rates

Softwoods: 500-1600 IPM
 Hardwoods: 500-1500 IPM
 Softwood Plywood: 700-1800 IPM
 Hardwood Plywood: 700-1600 IPM
 Raw MDF & Particleboard: 600-1200 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent
 top finish.

K

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS367	3/8	1-1/8	3/8	3	30°
RS368	1/2	1-1/8	1/2	3	30°
RS376	1/2	1-3/8	1/2	3	30°
RS369	1/2	1-5/8	1/2	3-1/2	30°
RS372	5/8	1-5/8	5/8	4	30°
RS373	3/4	1-5/8	3/4	4	30°
RS371	3/4	2-1/4	3/4	5	30°
RS375	3/4	3	3/4	6	30°

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Low Helix Finisher Solid Carbide Router Bits



3 Flute Low Helix Upcut Finisher

Material: Feed Rates

Softwoods: 200-600 IPM
 Hardwoods: 200-500 IPM
 Solid Surface: 100-300 IPM
 Hard Birttle Plastics: 300 IPM
 Raw MDF & Particleboard: 200-500 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS760	1/4	3/8	1/4	3	10°
RS761	1/4	7/8	1/4	3	10°
RS762	3/8	5/8	3/8	3	10°
RS268	3/8	1-1/8	3/8	3	10°
RS261	1/2	1-1/8	1/2	3-1/2	10°
RS271	1/2	1-5/8	1/2	4	10°
RS766	1/2	2-1/8	1/2	4-1/2	10°
RS263	3/4	1-5/8	3/4	4	10°
RS768	3/4	2-1/8	3/4	5	10°

All measurements are in inches unless otherwise specified. Metric size tools are available.



3 Flute Low Helix Downcut Finisher

Material: Feed Rates

Softwoods: 200-600 IPM
 Hardwoods: 200-500 IPM
 Solid Surface: 100-300 IPM
 Hard Birttle Plastics: 300 IPM
 Raw MDF & Particleboard: 200-500 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS770	1/4	3/8	1/4	3	10°
RS771	1/4	7/8	1/4	3	10°
RS772	3/8	5/8	3/8	3	10°
RS269	3/8	1-1/8	3/8	3	10°
RS266	1/2	1-1/8	1/2	3-1/2	10°
RS272	1/2	1-5/8	1/2	4	10°
RS776	1/2	2-1/8	1/2	4-1/2	10°
RS267	3/4	1-5/8	3/4	4	10°
RS778	3/4	2-1/8	3/4	5	10°

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

Rougher Solid Carbide Router Bits

A



Material: Feed Rates

Softwoods: 700-1200 IPM
 Hardwoods: 700-1200 IPM
 Softwood Plywood: 700-1500 IPM
 Hardwood Plywood: 700-1500 IPM
 Raw MDF & Particleboard: 600-1500 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent bottom finish.

B

3 Flute Low Helix Upcut Rougher

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS274	3/8	1-1/8	3/8	3-1/2	10°
RS273	1/2	1-1/8	1/2	3-1/2	10°
RS277	1/2	1-5/8	1/2	4	10°
RS730	5/8	1-5/8	5/8	4	10°
RS731	5/8	2-1/8	5/8	5	10°
RS276	3/4	1-5/8	3/4	4	10°
RS732	3/4	2-1/8	3/4	5	10°
Metric Sizes					
RS733	16mm	55mm	16mm	120mm	10°

D

E

F

G

H

I

All measurements are in inches unless otherwise specified. Metric size tools are available.

J



Material: Feed Rates

Softwoods: 700-1200 IPM
 Hardwoods: 700-1200 IPM
 Softwood Plywood: 700-1500 IPM
 Hardwood Plywood: 700-1500 IPM
 Raw MDF & Particleboard: 600-1500 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent bottom finish.

K

3 Flute High Helix Upcut Rougher

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS740	3/8	1-1/8	3/8	3-1/2	30°
RS742	1/2	1-1/8	1/2	3-1/2	30°
RS743	1/2	1-5/8	1/2	4	30°
RS744	5/8	1-5/8	5/8	4	30°
RS745	5/8	2-1/2	5/8	5	30°
RS748	3/4	1-5/8	3/4	4	30°
RS749	3/4	2-1/8	3/4	5	30°
Metric Sizes					
RS741	12mm	25mm	12mm	76mm	30°
RS746	16mm	55mm	16mm	120mm	30°
RS747	18mm	60mm	18mm	120mm	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

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3 Flute Low Helix Downcut Rougher

Material: Feed Rates

Softwoods: 600-1000 IPM
 Hardwoods: 600-1000 IPM
 Softwood Plywood: 600-1200 IPM
 Hardwood Plywood: 600-1200 IPM
 Raw MDF & Particleboard: 500-1000 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS275	3/8	1-1/8	3/8	3-1/2	10°
RS281	1/2	1-1/8	1/2	3-1/2	10°
RS278	1/2	1-5/8	1/2	4	10°
RS284	5/8	1-5/8	5/8	4	10°
RS285	5/8	2-1/8	5/8	5	10°
RS282	3/4	1-5/8	3/4	4	10°
RS287	3/4	2-1/8	3/4	5	10°
Metric Sizes					
RS288	16mm	55mm	16mm	120mm	10°

All measurements are in inches unless otherwise specified. Metric size tools are available.



3 Flute High Helix Downcut Rougher

Material: Feed Rates

Softwoods: 700-1200 IPM
 Hardwoods: 700-1200 IPM
 Softwood Plywood: 700-1500 IPM
 Hardwood Plywood: 700-1500 IPM
 Raw MDF & Particleboard: 600-1500 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS750	3/8	1-1/8	3/8	3-1/2	30°
RS752	1/2	1-1/8	1/2	3-1/2	30°
RS753	1/2	1-5/8	1/2	4	30°
RS754	5/8	1-5/8	5/8	4	30°
RS755	5/8	2-1/8	5/8	5	30°
RS758A	3/4	1-5/8	3/4	4	30°
RS759	3/4	2-1/8	3/4	5	30°
Metric Sizes					
RS751	12mm	25mm	12mm	76mm	30°
RS756	16mm	55mm	16mm	120mm	30°
RS757	18mm	60mm	18mm	120mm	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.



Rougher Solid Carbide Router Bits

A



3 Flute Rougher Upcut Spiral High Impact

Material: Feed Rates

Softwoods: 700-1200 IPM
Hardwoods: 700-1200 IPM
Softwood Plywood: 700-1500 IPM
Hardwood Plywood: 700-1500 IPM
Raw MDF & Particleboard: 600-1500 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for good bottom finish.

B

C

D

E

F

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS925	3/8	1-1/8	3/8	3	30°
RS927	1/2	1-1/8	1/2	3	30°
RS929	1/2	1-5/8	1/2	3-1/2	30°
RS931	1/2	2-1/8	1/2	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

G



3 Flute Rougher Downcut Spiral High Impact

Material: Feed Rates

Softwoods: 700-1200 IPM
Hardwoods: 700-1200 IPM
Softwood Plywood: 700-1500 IPM
Hardwood Plywood: 700-1500 IPM
Raw MDF & Particleboard: 600-1500 IPM

End Point: Finish Quality

End Point Style: Plunge Point
Optimized for good top finish.

H

I

J

K

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS933	3/8	1-1/8	3/8	3	30°
RS935	1/2	1-1/8	1/2	3	30°
RS937	1/2	1-5/8	1/2	3-1/2	30°
RS939	1/2	2-1/8	1/2	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



4 Flute Rougher/Finisher Hybrid Upcut Spiral High Speed

Material: Feed Rates

Softwoods: 1000-1800 IPM
Hardwoods: 1000-1800 IPM
Softwood Plywood: 1200-3000 IPM
Hardwood Plywood: 1200-2800 IPM
Raw MDF & Particleboard: 1000-2000 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS900	1/2	1-1/8	1/2	3-1/2	30°
RS901	1/2	1-5/8	1/2	4	30°
RS902	1/2	2-1/8	1/2	4-1/2	30°
RS903	5/8	2-1/8	5/8	5	30°
RS904	3/4	2-1/8	3/4	5	30°

Rougher/Finisher Hybrid = 2 flutes with chipbreaker design (180°apart) and 2 flutes with a standard (straight) design (180°apart).

All measurements are in inches unless otherwise specified. Metric size tools are available.

Rougher Solid Carbide Router Bits



4 Flute Rougher/Finisher Hybrid Downcut Spiral

High Speed

Material: Feed Rates

Softwoods: 1000-1800 IPM
 Hardwoods: 1000-1800 IPM
 Softwood Plywood: 1200-3000 IPM
 Hardwood Plywood: 700-2200 IPM
 Raw MDF & Particleboard: 1200-2800 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS905	1/2	1-1/8	1/2	3-1/2	30°
RS906	1/2	1-5/8	1/2	4	30°
RS907	1/2	2-1/8	1/2	4-1/2	30°
RS908	5/8	2-1/8	5/8	5	30°
RS909	3/4	2-1/8	3/4	5	30°

Rougher/Finisher Hybrid = 2 flutes with chipbreaker design (180°apart) and 2 flutes with a standard (straight) design (180°apart).

All measurements are in inches unless otherwise specified. Metric size tools are available.



4 Flute Rougher/Finisher Hybrid Compression Spiral

High Speed

Material: Feed Rates

Softwoods: 1000-1800 IPM
 Hardwoods: 1000-1800 IPM
 Softwood Plywood: 1200-3000 IPM
 Hardwood Plywood: 1200-2800 IPM
 Raw MDF & Particleboard: 1000-2000 IPM
 Laminated Plywood: 1200-2800 IPM
 Laminated Particleboard & MDF: 1200-3000 IPM

Finish Quality

Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS989	1/2	1	1/2	3	30°
RS991	1/2	1-1/8	1/2	3	30°
RS993	1/2	1-3/8	1/2	3-1/2	30°
RS995	1/2	1-5/8	1/2	4	30°
RS997	5/8	2-1/4	5/8	5	30°
RS998	3/4	1-7/8	3/4	4	30°
RS999	3/4	2-1/2	3/4	5	30°

Rougher/Finisher Hybrid = flutes with chipbreaker design (180°apart) and 2 flutes with a standard (straight) design (180°apart).

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits

A



B

1 Flute "O" Upcut Spiral
Soft & Hard Plastics

Material: Feed Rates

Soft Ductile Plastics: 150 IPM
Hard Brittle Plastics: 150 IPM
Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Crescent
Optimized for excellent bottom finish.

C

	Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
	RS715	1/16	1/4	1/8	2	21°
D	RS700	1/16	1/4	1/4	2	21°
	RS716	1/8	1/4	1/8	2	21°
E	RS701	1/8	1/4	1/4	2	21°
	RS717	1/8	1/2	1/8	2	21°
F	RS702	1/8	1/2	1/4	2	21°
	RS718	3/16	3/8	3/16	2	21°
G	RS703	3/16	3/8	1/4	2	21°
	RS719	3/16	5/8	3/16	2	21°
H	RS704	3/16	5/8	1/4	2	21°
	RS705	1/4	3/4	1/4	2-1/2	21°
I	RS727	1/4	3/8	1/4	2	21°
J	RS706	1/4	1-1/4	1/4	3	21°
	RS707	3/8	1-1/8	3/8	3	21°

D

E

F

G

H

I

J

K

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1 Flute “O” Upcut Spiral

Soft and Hard Plastics (Metric)

Material: Feed Rates

Soft Ductile Plastics: 150 IPM
 Hard Brittle Plastics: 150 IPM
 Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Cresent
 Optimized for excellent
 bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS824	2mm	8mm	2mm	50mm	21°
RS825	2mm	8mm	6mm	64mm	21°
RS826	2.5mm	8mm	2.5mm	50mm	21°
RS827	2.5mm	8mm	6mm	64mm	21°
RS828	3mm	8mm	3mm	50mm	21°
RS829	3mm	8mm	6mm	64mm	21°
RS830	3mm	12mm	3mm	64mm	21°
RS831	3mm	12mm	6mm	64mm	21°
RS832	4mm	8mm	4mm	64mm	21°
RS833	4mm	12mm	4mm	64mm	21°
RS834	4mm	20mm	4mm	64mm	21°
RS835	4mm	20mm	6mm	64mm	21°
RS836	4mm	30mm	4mm	64mm	21°
RS837	5mm	16mm	5mm	64mm	21°
RS838	5mm	16mm	6mm	64mm	21°
RS839	5mm	30mm	5mm	64mm	21°
RS840	6mm	8mm	6mm	64mm	21°
RS841	6mm	12mm	6mm	64mm	21°
RS842	6mm	20mm	6mm	64mm	21°
RS843	6mm	30mm	6mm	76mm	21°
RS844	6mm	38mm	6mm	76mm	21°
RS845	8mm	25mm	8mm	64mm	21°
RS846	8mm	38mm	8mm	76mm	21°
RS847	10mm	30mm	10mm	76mm	21°

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits

A



B

1 Flute "O" Upcut Spiral
Hard Plastics

Material: Feed Rates
Hard Brittle Plastics: 2000 IPM
Solid Surface: 100-180 IPM

End Point: Finish Quality
End Point Style: Crescent
Optimized for excellent
bottom finish.

C

	Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
	RS677	1/16	1/4	1/8	2	21°
D	RS690	1/16	1/4	1/4	2	21°
	RS678	1/8	1/4	1/8	2	21°
E	RS691	1/8	1/4	1/4	2	21°
	RS679	1/8	1/2	1/8	2	21°
F	RS692	1/8	1/2	1/4	2	21°
	RS693	5/32	9/16	1/4	2	21°
G	RS657	3/16	3/8	3/16	2	21°
	RS694	3/16	3/8	1/4	2	21°
H	RS695	3/16	5/8	1/4	2	21°
	RS696	7/32	3/4	1/4	2-1/2	21°
I	RS697	1/4	3/4	1/4	2-1/2	21°
	RS698	1/4	1-1/4	1/4	3	21°
J	RS658	1/4	3/8	1/4	2	21°
	RS699	3/8	1-1/8	3/8	3	21°

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1 Flute “O” Upcut Spiral Hard Plastics (Metric)

Material: Feed Rates

Hard Brittle Plastics: 200 IPM
Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Crescent
Optimized for excellent
bottom finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS800	2mm	8mm	2mm	50mm	30°
RS801	2mm	8mm	6mm	64mm	30°
RS802	2.5mm	8mm	2.5mm	50mm	30°
RS803	2.5mm	8mm	6mm	64mm	30°
RS804	3mm	8mm	3mm	50mm	30°
RS822	8mm	38mm	8mm	76mm	30°
RS823	10mm	30mm	10mm	76mm	30°
RS805	3mm	8mm	6mm	64mm	30°
RS806	3mm	12mm	3mm	64mm	30°
RS807	3mm	12mm	6mm	64mm	30°
RS808	4mm	8mm	4mm	64mm	30°
RS809	4mm	12mm	4mm	64mm	30°
RS810	4mm	20mm	4mm	64mm	30°
RS811	4mm	20mm	6mm	64mm	30°
RS812	4mm	30mm	4mm	64mm	30°
RS813	5mm	16mm	5mm	64mm	30°
RS814	5mm	16mm	6mm	64mm	30°
RS815	5mm	30mm	5mm	64mm	30°
RS816	6mm	8mm	6mm	64mm	30°
RS817	6mm	12mm	6mm	64mm	30°
RS818	6mm	20mm	6mm	64mm	30°
RS819	6mm	30mm	6mm	76mm	30°
RS820	6mm	38mm	6mm	76mm	30°
RS821	8mm	25mm	8mm	64mm	30°
RS822	8mm	38mm	8mm	76mm	30°
RS823	10mm	30mm	10mm	76mm	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits

A


Material: Feed Rates

Soft Ductile Plastics: 150 IPM
 Hard Brittle Plastics: 150 IPM
 Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Crescent
 Optimized for excellent top finish.

B

1 Flute "O" Downcut Spiral

Soft and Hard Plastics

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS728	1/8	1/2	1/8	2	21°
RS710	1/8	1/2	1/4	2	21°
RS729	3/16	5/8	3/16	2	21°
RS711	3/16	5/8	1/4	2	21°
RS712	1/4	3/4	1/4	2-1/2	21°
RS713	1/4	1-1/4	1/4	3	21°
RS714	3/8	1-1/8	3/8	3	21°

All measurements are in inches unless otherwise specified. Metric size tools are available.

H


Material: Feed Rates

Soft Ductile Plastics: 150 IPM
 Hard Brittle Plastics: 150 IPM
 Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Crescent
 Optimized for excellent top finish.

I

1 Flute "O" Downcut Spiral

Soft and Hard Plastics (Metric)

J

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS848	2mm	8mm	3mm	50mm	22°
RS849	2mm	8mm	6mm	64mm	22°
RS850	2.5mm	8mm	2.5mm	50mm	22°
RS851	2.5mm	8mm	6mm	64mm	22°
RS852	3mm	8mm	3mm	50mm	22°
RS853	3mm	8mm	6mm	64mm	22°
RS854	3mm	12mm	3mm	64mm	22°
RS855	3mm	12mm	6mm	64mm	22°
RS856	4mm	8mm	4mm	64mm	22°
RS857	4mm	12mm	4mm	64mm	22°
RS858	4mm	20mm	4mm	64mm	22°
RS859	4mm	20mm	6mm	64mm	22°

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1 Flute "O" Downcut Spiral (Continued)

Soft and Hard Plastics (Metric)

Material: Feed Rates

Soft Ductile Plastics: 150 IPM
 Hard Brittle Plastics: 150 IPM
 Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Cresent
 Optimized for excellent
 top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS860	4mm	30mm	4mm	64mm	22°
RS861	5mm	16mm	5mm	64mm	22°
RS862	5mm	16mm	6mm	64mm	22°
RS863	5mm	30mm	5mm	64mm	22°
RS864	6mm	8mm	6mm	64mm	22°
RS865	6mm	12mm	6mm	64mm	22°
RS866	6mm	20mm	6mm	64mm	22°
RS867	6mm	30mm	6mm	76mm	22°
RS868	6mm	38mm	6mm	76mm	22°
RS869	8mm	25mm	8mm	64mm	22°
RS870	8mm	38mm	8mm	76mm	22°
RS871	10mm	30mm	10mm	76mm	22°

All measurements are in inches unless otherwise specified. Metric size tools are available.



1 Flute "O" Downcut Spiral

Hard Plastics

Material: Feed Rates

Hard Brittle Plastics: 200 IPM
 Solid Surface: 100-180 IPM

End Point: Finish Quality

End Point Style: Cresent
 Optimized for excellent
 top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS734	1/8	1/2	1/8	2	21°
RS720	1/8	1/2	1/4	2	21°
RS721	5/32	9/16	1/4	2	21°
RS735	3/16	5/8	3/16	2	21°
RS722	3/16	5/8	1/4	2	21°
RS723	7/32	3/4	1/4	2-1/2	21°
RS724	1/4	3/4	1/4	2-1/2	21°
RS725	1/4	1-1/4	1/4	3	21°
RS726	3/8	1-1/8	3/8	3	21°

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits

A



B

1 Flute "O" Downcut Spiral
Hard Plastics (Metric)

Material: Feed Rates

Hard Brittle Plastics: 200 IPM
Solid Surface: 100-180 IP

End Point: Finish Quality

End Point Style: Crescent
Optimized for excellent
top finish.

C

	Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
	RS872	2mm	8mm	2mm	50mm	22°
D	RS873	2mm	8mm	6mm	64mm	22°
	RS874	2.5mm	8mm	2.5mm	50mm	22°
E	RS875	2.5mm	8mm	6mm	64mm	22°
	RS876	3mm	8mm	3mm	50mm	22°
F	RS877	3mm	8mm	6mm	64mm	22°
	RS878	3mm	12mm	3mm	64mm	22°
G	RS879	3mm	12mm	6mm	64mm	22°
	RS880	4mm	8mm	4mm	64mm	22°
H	RS881	4mm	12mm	4mm	64mm	22°
	RS882	4mm	20mm	4mm	64mm	22°
I	RS883	4mm	20mm	6mm	64mm	22°
	RS884	4mm	30mm	4mm	64mm	22°
J	RS885	5mm	16mm	5mm	64mm	22°
	RS886	5mm	16mm	6mm	64mm	22°
K	RS887	5mm	30mm	5mm	64mm	22°
	RS888	6mm	12mm	6mm	64mm	22°
	RS889	6mm	12mm	6mm	64mm	22°
	RS890	6mm	20mm	6mm	64mm	22°
	RS891	6mm	30mm	6mm	76mm	22°
	RS892	6mm	38mm	6mm	76mm	22°
	RS893	8mm	25mm	8mm	64mm	22°
	RS894	8mm	38mm	8mm	76mm	22°
	RS895	10mm	30mm	10mm	76mm	22°

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

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NAPGLADU
Delivering Productivity

"O" Flute Solid Carbide Router Bits



1 Flute "O" Straight Cut

Soft and Hard Plastics

Material: Feed Rates

Soft Ductile Plastics : 350 IPM
Hard Brittle Plastics:300 IPM

End Point: Finish Quality

End Point Style: Crescent
Optimized for good finish
on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length
RS620	1/8	5/16	1/4	2
RS621	1/8	1/2	1/4	2
RS622L	1/8	1/2	1/4	2
RS623	1/8	5/8	1/4	4
RS641	1/8	1/2	1/8	2
RS642	1/8	5/8	1/8	3
RS643	3/16	5/8	3/16	2-1/2
RS644	1/4	1-1/4	1/4	4
RS624	5/32	9/16	1/4	2
RS625	3/16	3/8	1/4	2
RS626	3/16	5/8	1/4	2
RS627L	3/16	5/8	1/4	2
RS628	3/16	1	1/4	4
RS629	7/32	5/8	1/4	2-1/2
RS630	1/4	3/8	1/4	2-1/2
RS314	1/4	3/4	1/4	2-1/2
RS631L	1/4	3/4	1/4	2-1/2
RS632	1/4	3/4	1/4	3-1/4
RS633L	1/4	3/4	1/4	3-1/4
RS634	1/4	1	1/4	3-1/4
RS636	3/8	5/8	3/8	2-1/2
RS637	3/8	7/8	3/8	2-1/2
RS638	3/8	1-5/8	3/8	6
RS317	1/2	1	1/2	3
RS639	1/2	1-5/8	1/2	4
RS640	1/2	2-1/8	1/2	6

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits

A



B

1 Flute "O" Straight Cut
Softwoods, Soft & Hard Plastics

Material: Feed Rates

Softwoods: 100-300 IPM
Soft Ductile Plastics: 350 IPM
Hard Brittle Plastics: 300 IPM

End Point: Finish Quality

End Point Style: Crescent
Optimized for good finish on top & bottom.

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length
RS312	1/8	1/2	1/4	2
RS650	5/32	9/16	1/4	2
RS313	3/16	5/8	1/4	2
RS651	7/32	5/8	1/4	2-1/2
RS652	1/4	3/4	1/4	2-1/2
RS653	9/32	3/4	3/8	2-1/2
RS654	5/16	13/16	3/8	2-1/2
RS316	3/8	7/8	3/8	2-1/2
RS655	7/16	1	1/2	3
RS656	1/2	1	1/2	3

D

E

F

G

H

I

All measurements are in inches unless otherwise specified. Metric size tools are available.

J



K

2 Flute "O" Upcut Spiral Low Helix
Soft and Hard Plastics

Material: Feed Rates

Soft Ductile Plastics: 275 IPM
Hard Brittle Plastics: 250 IPM
Solid Surface: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent bottom finish.

Part No.	Cutting Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS420	1/4	3/8	1/4	2-1/2	11°
RS421	1/4	3/4	1/4	2-1/2	11°
RS422	3/8	1	3/8	3	11°
RS423	1/2	1-1/8	1/2	3-1/2	11°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits



2 Flute "O" Downcut Spiral Low Helix
Soft and Hard Plastics

Material: Feed Rates

Soild Surface: 150 IPM
Hard Brittle Plastics: 275 IPM
Soft Ductile Plastics: 300 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent top finish.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
RS460	1/4	3/8	1/4	2-1/2	11°
RS461	1/4	3/4	1/4	2-1/2	11°
RS462	3/8	1	3/8	3	11°
RS463	1/2	1-1/8	1/2	3-1/2	11°

All measurements are in inches unless otherwise specified. Metric size tools are available.



2 Flute "O" Straight Cut
Hard Plastics

Material: Feed Rates

Hard Brittle Plastics: 250 IPM
Soild Surface: 150-200 IPM
Fiber Reinforced Plastics: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
Optimized for excellent finish on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length
RS570	1/8	1/4	1/4	2
RS571	3/16	3/8	1/4	2
RS572	3/16	5/8	1/4	2
RS573L	3/16	5/8	1/4	2
RS574	3/16	5/8	1/4	4
RS575	1/4	3/8	1/4	2-1/2
RS576	1/4	3/4	1/4	2-1/2
RS577L	1/4	3/4	1/4	2-1/2
RS578	1/4	1-1/4	1/4	4
RS579	3/8	5/8	3/8	2-1/2
RS580	3/8	7/8	3/8	2-1/2
RS581L	3/8	7/8	3/8	2-1/2
RS582	3/8	1-5/8	3/8	6
RS583	1/2	1	1/2	3
RS584L	1/2	1	1/2	3
RS585	1/2	2-1/8	1/2	6

All measurements are in inches unless otherwise specified. Metric size tools are available.

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

"O" Flute Solid Carbide Router Bits

A



Material: Feed Rates

Soft Ductile Plastics: 300 IPM
Hard Brittle Plastics: 275 IPM

End Point: Finish Quality

End Point Style: Plung Point
Optimized for excellent finish on top & bottom.

B

2 Flute "O" Straight Cut
Soft and Hard Plastics

C

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length
RS660	1/8	5/16	1/4	2
RS661	1/8	1/2	1/4	2
RS662	1/8	5/8	1/4	4
RS663	3/16	3/8	1/4	2
RS664	3/16	5/8	1/4	2
RS665	3/16	1	1/4	4
RS666	1/4	3/8	1/4	2-1/2
RS667	1/4	1	1/4	2-1/2
RS668L	1/4	1	1/4	2-1/2
RS669	1/4	1	1/4	3-1/4
RS670	1/4	1-1/4	1/4	4
RS671	3/8	7/8	3/8	2-1/2
RS672	3/8	1	3/8	4
RS673	1/2	1	1/2	3
RS674	1/2	1	1/2	4
RS675	1/2	1-3/4	1/2	4
RS676	1/2	2-1/8	1/2	6

All measurements are in inches unless otherwise specified. Metric size tools are available.

I

J

K

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

Straight Cut Solid Carbide Router Bits



1 Flute Straight Cut "V" Flute

Material: Feed Rates

Softwoods: 100-300 IPM
 Hardwoods: 100-250 IPM
 Softwood Plywood: 100-250 IPM
 Hardwood Plywood: 100-200 IPM
 Raw MDF & Particleboard: 100-250 IPM

End Point: Finish Quality

End Point Style: Crescent
 Optimized for good finish
 on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length
RS550	1/8	1/2	1/4	2
RS551	3/16	3/4	1/4	2
RS552	1/4	7/8	1/4	2-1/2
RS262	1/4	1	1/4	2-1/2
RS553	5/16	1-1/8	5/16	3
RS264	3/8	1-1/8	3/8	3
RS265	1/2	1-1/8	1/2	3

All measurements are in inches unless otherwise specified. Metric size tools are available.



2 Flute Straight Cut

Hard Plastics

Material: Feed Rates

Hard Brittle Plastics: 250 IPM
 Fiber Reinforced Plastics: 150 IPM

End Point: Finish Quality

End Point Style: End Mill
 Optimized for good finish
 on top & bottom.

Part No.	Hole Diameter	Edge Length	Shank Size	Overall Length
RS250	1/8	1/2	1/4	2
RS560	5/32	9/16	1/4	2
RS251	3/16	5/8	1/4	2
RS258	7/32	5/8	1/4	2-1/2
RS561	1/4	3/4	1/4	2-1/2
RS252	1/4	3/4	1/4	3-1/4
RS562	9/32	3/4	3/8	2-1/2
RS563	5/16	1-13/16	3/8	2-1/2
RS257	3/8	7/8	3/8	2-1/2
RS564	7/16	1	1/2	3
RS565	1/2	1	1/2	3

All measurements are in inches unless otherwise specified. Metric size tools are available.

All router bits are backed by our 30 Day, Satisfaction Guarantee.

Straight Cut Solid Carbide Router Bits



Material: Feed Rates

Softwoods: 200-400 IPM
 Hardwoods: 200-400 IPM
 Softwood Plywood: 200-400 IPM
 Hardwood Plywood: 200-400 IPM
 Raw MDF & Particleboard: 200-400 IPM

End Point: Finish Quality

End Point Style: Plunge Point
 Optimized for excellent finish on top & bottom.

2 Flute Straight Cut

Part No.	Part No. Canada	Hole Diameter	Edge Length	Shank Size	Overall Length
RS253	MAS811-1101	1/8	1/2	1/4	2
RS254	MAS811-1102	5/32	5/8	1/4	2
RS255	MAS811-1103	3/16	3/4	1/4	2
RS590	MAS811-1104	7/32	3/4	1/4	2-1/2
RS591	MAS811-1105	1/4	7/8	1/4	2-1/2
RS256	MAS811-1107	1/4	1	1/4	2-1/2
RS593	MAS811-1108	1/4	1-1/8	1/4	3
RS594	MAS811-1109	9/32	1	5/16	2-1/2
RS595	MAS811-1110	5/16	1-1/8	5/16	3
RS596	MAS811-1111	5/16	1-1/8	1/2	3
RS597	MAS811-1112	3/8	1-1/8	3/8	3
RS599	MAS811-1114	3/8	1-1/4	3/8	3
RS600	MAS811-1115	3/8	1-1/4	1/2	3
RS601	MAS811-1116	7/16	1	1/2	3
RS602	MAS811-1117	1/2	1-1/8	1/2	3
RS259	MAS811-1119	1/2	1-1/4	1/2	3-1/2
RS604	MAS811-1120	1/2	1-5/8	1/2	3-1/2
RS606	MAS811-1122	17/32	1-1/8	1/2	3
RS607	MAS811-1123	5/8	2-1/8	5/8	4
RS608	MAS811-1124	3/4	1-5/8	3/4	4
RS609	MAS811-1125	3/4	2-1/8	3/4	4

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Nexus Series Solid Carbide Router Bits

Brand new tool geometry and proprietary micrograin carbide place the Nexus Series on the cutting edge of CNC spiral router technology. Nexus Series router bits provide longer run times and higher feed rates for optimal edge life and outstanding performance. Standard dimensions are in stock for immediate delivery. Custom designs are available.



Upcut Spiral

Designed to rout wood and wood composites where upward chip removal, long life and quality finish are desired. Use for routing wood, wood composites and plastics.

Part No.	Flutes	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
530-2A00	Two Flute	1/4	1	1/4	2-1/2	30°
530-2A01	Two Flute	1/4	7/8	1/4	2-1/2	30°
530-2A02	Two Flute	1/4	1-1/8	1/4	3	30°
530-2A03	Two Flute	3/8	1-1/8	3/8	3	30°
530-2A04	Two Flute	3/8	1-1/4	3/8	3	30°
530-2A05	Two Flute	1/2	1-1/8	1/2	3	30°
530-2A06	Two Flute	1/2	1-1/4	1/2	3-1/2	30°
530-2A07	Two Flute	1/2	1- 5/8	1/2	3-1/2	30°
530-2A08	Two Flute	1/2	2-1/8	1/2	4	30°
531-3500	Three Flute - Chipbreaker	3/4	3-1/8	3/4	6	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.



Downcut Spiral

Designed to rout wood and wood composites where downward chip removal, long life and quality finish are desired. Use for routing wood, wood composites and plastics.

Part No.	Flutes	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
540-2A00	Two Flute	1/8	1/2	1/4	2	30°
540-2A01	Two Flute	1/4	7/8	1/4	2 1/2	30°
540-2A02	Two Flute	1/4	1	1/4	2 1/2	30°
540-2A03	Two Flute	1/4	1-1/8	1/4	3	30°
540-2A04	Two Flute	3/8	1-1/8	3/8	3	30°
540-2A05	Two Flute	3/8	1-1/4	3/8	3	30°
540-2A06	Two Flute	1/2	1-1/8	1/2	3	30°
540-2A07	Two Flute	1/2	1- 1/4	1/2	3-1/2	30°
540-2A08	Two Flute	1/ 2	1- 5/8	1/2	3 -1/2	30°
540-2A09	Two Flute	1/2	2-1/8	1/2	4	30°
541-3500	Three Flute - Chipbreaker	3/4	2-1/4	3/4	5	30°
541-3501	Three Flute - Chipbreaker	3/4	3-1/8	3/4	6	30°
541-3502	Three Flute - Chipbreaker	3/4	1-5/8	3/4	4	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.
All router bits are backed by our 30 Day, Satisfaction Guarantee.

Nexus Series Solid Carbide Router Bits

A



Designed for fast feed rates and optimum edge finishes on both sides of laminated material. Use for routing double sided laminated materials, hardwoods and wood composites

Compression Spiral

B

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D

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F

Part No.	Flutes	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
551-2900	Two Flute	1/4	7/8	1/4	2-1/2	30°
551-2901	Two Flute	3/8	1-1/8	3/8	3	30°
551-2902	Two Flute	1/2	1-3/8	1/2	3-1/2	30°
551-2903	Two Flute	1/2	1-5/8	1/2	4	30°
551-2904	Two Flute - LH	1/2	1-5/8	1/2	4	30°
551-2905	Two Flute	5/8	2-1/2	5/8	5	30°
551-2906	Two Flute	3/4	2-1/2	3/4	6	30°
551-2907	Two Flute	1/2	1-1/8	1/2	3	30°
551-3600	Three Flute	3/8	1-1/8	3/8	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

G



Designed for fast feed rates with an excellent finish. The short upcut allows a mortise cut with downcut action. Best for mortising and routing of double sided laminates and hardwoods.

Mortise Compression Spiral

H

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K

Part No.	Flutes	Hole Diameter	Edge Length	Upcut Length	Shank Size	Overall Length	Helix Angle
551-2A00	Two Flute	1/4	7/8	.200"	1/4	2-1/2	30°
551-2A01	Two Flute	3/8	7/8	.200"	3/8	3	30°
551-2A02	Two Flute	1/2	7/8	.200"	1/2	3	30°
551-2A03	Two Flute	1/2	1-3/8	.200"	1/2	3-1/2	30°
551-2A04	Two Flute-LH	1/2	1-3/8	.200"	1/2	3-1/2	30°
551-2A05	Two Flute	3/8	1-1/4	.200"	1/2	3	30°
551-2A06	Two Flute	1/2	1-1/8	.200"	1/2	3-1/2	30°
551-3700	Three Flute	3/8	7/8	.200"	3/8	3	30°
551-3701	Three Flute	1/2	7/8	.200"	1/2	3	30°
551-3702	Three Flute	1/2	1-3/8	.200"	1/2	3-1/2	30°
551-3703	Three Flute	1/2	1-1/8	.200"	1/2	3	30°

All measurements are in inches unless otherwise specified. Metric size tools are available.

L



Designed to provide smooth finish in rigid plastics with upward chip removal. Best for routing hard, rigid plastics, but can be used for soft, flexible plastics as well.

"O" Upcut Spiral

Part No.	Flutes	Hole Diameter	Edge Length	Shank Size	Overall Length	Helix Angle
530-0900	One Flute - "O"	1/8	1/2	1/4	2	21°
530-0901	One Flute - "O"	3/16	5/8	1/4	2	21°
530-0902	One Flute - "O"	1/4	3/4	1/4	2-1/2	21°
530-0903	One Flute - "O"	1/4	1-1/4	1/4	3	21°

L = Left-Hand Rotation. All router bits are backed by our 30 Day, Satisfaction Guarantee.

Specialty Solid Carbide Router Bits



Diamond Burr – Fiberglass Finisher

Hard Plastics

Material: Feed Rates

Fiber Reinforced Plastics: 125 IPM

End Point

End Point Style: Drill End

Part Number	Hole Diameter	Edge Length	Shank Size	Overall Length
RS790	1/4	3/4	1/4	2-1/2
RS374	1/4	1	1/4	3
RS793	3/8	7/8	3/8	2-1/2
RS796	1/2	1	1/2	3

All measurements are in inches unless otherwise specified. Metric size tools are available.



2 Flute Diamond Burr – Fiberglass Finisher

Hard Plastics

Material: Feed Rates

Fiber Reinforced Plastics: 125 IPM

End Point

End Point Style: Drill End

Part Number	Hole Diameter	Edge Length	Shank Size	Overall Length
RS791	1/4	3/4	1/4	2-1/2
RS794	3/8	7/8	3/8	2-1/2
RS797	1/2	1	1/2	3

All measurements are in inches unless otherwise specified. Metric size tools are available.



2 Flute Compression Finisher

Aramid Fiber Composites

Material: Feed Rates

Fiber Reinforced Plastics: 125 IPM

Finish Quality

End Point Style: End Mill
Optimized for excellent finish on top & bottom.

Part Number	Hole Diameter	Edge Length	Shank Size	Overall Length
RS792*	1/4	3/4	1/4	2-1/2
RS795*	3/8	7/8	3/8	2-1/2
RS798*	1/2	1	1/2	3

All measurements are in inches unless otherwise specified. Metric size tools are available.



Flush Trim – Laminate Trimmer

Plastic Laminates

Material: Feed Rates

Fiber Reinforced Plastics: Hand Feed

Part Number	Hole Diameter	Edge Length	Shank Size	Overall Length
RS111	1/4	3/8	1/4	1-1/2

All measurements are in inches unless otherwise specified. Metric size tools are available.



7° Bevel – Laminate Trimmer

Plastic Laminates

Material: Feed Rates

Fiber Reinforced Plastics: Hand Feed

Part Number	Hole Diameter	Edge Length	Shank Size	Overall Length
RS114	1/4	1/4	1/4	1-1/2

All measurements are in inches unless otherwise specified. Metric size tools are available.

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