

Edge of Arlington Saw & Tool, Inc.

124 South Collins
Arlington, TX 76010
Phone: 817-461-7171 • Fax: 817-795-6651
Toll Free: 888-461-7171
Email: info@eoasaw.com
Website: www.eoasaw.com



Item #1065, Vortex Series 1000 Two Flute 1/2 x 2 1/8 Roughing Spiral **\$135.92**

Thank you for shopping with us! Roughing tools are designed for high feed rates on CNC routers. These tools are used when surface finish is not important in dense materials such as hardwoods and plywoods. Roughing tools are very successful in CNC applications where this bit makes the first cut, followed by a second cut using a profile type tool. This tool will produce a "rippled" edge cut and is extremely quiet and smooth cutting, even in heavy cuts and high feed rates.



Upcut Spirals

- ▼ The upcut spiral is a right hand spiral with a right hand rotation of cut. An upcut spiral will cause the chips to be "augered" upwards during cutting. This can be particularly useful in slotting cuts or where chip removal is a problem. Upcut spiral bits have a tendency to "lift" the part in some cases. Additional holding power or stepped cutting may be required.
- ▼ Upcut spiral bits will leave a smooth cut on the bottom of a thru cut and tend to leave some fuzzing on the top edge in certain materials.
- ▼ Upcut spirals straight plunge/drill and have good end cutting geometry.



Downcut Spirals

- ▼ A downcut spiral (right hand cut, left hand spiral) causes the chip flow to be directed downward. It also helps hold down the part being cut. The edge quality on the part is smooth on the top and tends to be fuzzy on the bottom in certain materials.
- ▼ The downward chip flow can sometimes cause clogging problems particularly in a blind slotting situation. Downcut bits tend to preload the routing system and can substantially improve part hold down in a marginal routing setup.
- ▼ Downcut tools CAN NOT be used to plunge straight into wood and should be ramped into the part.



Compression Spirals

- ▼ A compression spiral is designed with both upcut and downcut flutes. The upcut and downcut flutes compress the material being cut preventing chipping or fuzzing on the top and bottom of the cut.
- ▼ Compression spirals are used extensively for cutting double sided laminates, and can be used on natural woods where edge fuzzing is a problem.

SPECIFICATIONS

Diameter	1/2 in
Cut Height, Length, or Width	2 1/8 in

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Flute Geometry	Upcut
Flute	2
Overall Length	4 in
Shank	1/2 in
Manufacturer	Vortex Tool