

Antares, Inc.

Routing Tools Catalog



One Flute Up-Cut

- Right hand cut, right hand helix, spiral O-flute.
- For cutting soft plastics, hard plastics, and acrylics.
- Maximum material removal with outstanding finish.
- Polished flute helps prevent chip welding.

SHK Ø = 1/8" to 1/2"	SHK Ø = 3mm to 12mm
CED = 1/16" to SHK Ø	CED = 1.5mm to SHK Ø
LOC = 3/16" to 3-3/16"	LOC = 6mm to 38mm
OAL = 1-1/2" to 5"	OAL = 38mm to 76mm



One Flute Aluminum Cutter

- Right hand cut, right hand helix, spiral O-flute.
- For rapid cuts in aluminum while maintaining a superior finish.
- Polished flute helps prevent chip welding.

SHK Ø = 1/8" to 3/8"	SHK Ø = 3mm to 10mm
CED = 1/16" to SHK Ø	CED = 1.5mm to SHK Ø
LOC = 3/16" to 1"	LOC = 4mm to 25mm
OAL = 1-1/2" to 3"	OAL = 38mm to 76mm



One Flute Down-Cut

- Right hand cut, left hand helix, spiral O-flute.
- For cutting soft and hard plastics, laminated materials, and solid surface materials.
- Chips are pushed down. Space required between material and machine table for chip ejection.
- Burr free finish at top of cut.

SHK Ø = 1/8" to 3/8"	SHK Ø = 3mm to 10mm
CED = 1/16" to SHK Ø	CED = 1.5mm to SHK Ø
LOC = 1/4" to 1-5/8"	LOC = 6mm to 38mm
OAL = 1-1/2" to 3"	OAL = 38mm to 76mm



Two Flute Up-Cut

- Right hand cut, right hand helix.
- For cutting hard plastics and non-ferrous metals.
- Multiple flutes for increased rigidity and less deflection.
- See Micro Two Flute for smaller tip sizes.

SHK Ø = 1/8" to 3/8"	SHK Ø = 3mm to 10mm
CED = 3/32 to SHK Ø	CED = 2mm to SHK Ø
LOC = 3/8" to 1-1/2"	LOC = 6mm to 38mm
OAL = 1-1/2" to 3"	OAL = 38mm to 76mm



Two Flute Ballnose

- Right hand cut, right hand helix.
- For cutting plastics and non-ferrous metals.
- Produces a cut with a bottom radius for 3-D contouring.
- See Micro Ballnose for smaller tip sizes.

SHK Ø = 1/8" to 1/4"	SHK Ø = 3mm to 6mm
CED = SHK Ø	CED = SHK Ø
LOC = 3/8" to 1-3/8"	LOC = 9mm to 38mm
OAL = 1-1/2" to 3"	OAL = 38mm to 76mm



Three Flute Up-Cut

- Right hand cut, right hand helix.
- For cutting hard metals.
- Slower helix and multiple flutes for increased rigidity and less deflection.

SHK Ø = 1/8" to 1/4"	SHK Ø = 3mm to 6mm
CED = SHK Ø	CED = 2mm to SHK Ø
LOC = 3/8" to 3/4"	LOC = 6mm to 25mm
OAL = 1-1/2" to 3"	OAL = 38mm to 76mm



Five Flute Finishing Cutter

- Right hand cut, right hand helix.
- Five flute up-cut for extremely fine finish on acrylic.
- Maximum material removal $\leq .005"$ (0.1mm).

SHK \varnothing = 1/8" to 3/8"	SHK \varnothing = 3mm to 10mm
CED = SHK \varnothing	CED = SHK \varnothing
LOC = 1/4" to 1-5/8"	LOC = 6mm to 38mm
OAL = 1-1/2" to 3"	OAL = 38mm to 76mm



Two Flute Straight Flute

- Right hand cut, non-helical.
- For difficult to cut, abrasive materials such as fiberglass and phenolics.

SHK \varnothing = 1/8" to 3/8"	SHK \varnothing = 3mm to 8mm
CED = SHK \varnothing	CED = SHK \varnothing
LOC = 1/2" to 1-1/8"	LOC = 15mm to 32mm
OAL = 2" to 3"	OAL = 50m to 76mm



Micro Two Flute Up-Cut

- Right hand cut, right hand helix.
- Use for 3-D contouring and desktop modeling.
- Produces a flat bottom cut in plastics and soft metals.
- Smaller cutting edge diameter for fine detail.

SHK \varnothing = 1/8"	SHK \varnothing = 3mm
CED = .020" to .060"	CED = 0.5mm to 1.5mm
LOC = .060" to .187"	LOC = 1.5mm to 4mm
OAL = 1-1/2"	OAL = 38mm



Micro Two Flute Ballnose

- Right hand cut, right hand helix.
- Finishing tool for 3-D contouring and desktop modeling.
- Produces a cut with a round bottom cut in plastics and soft metals.
- Smaller cutting edge diameter for fine detail.

SHK \varnothing = 1/8"	SHK \varnothing = 3mm
CED = .020" to .060"	CED = 0.5mm to 1.5mm
LOC = .060" to .187"	LOC = 1.5mm to 4mm
OAL = 1-1/2"	OAL = 38mm



Specialty Tools

- Tools for specialty or custom applications.
- Contact us for information and pricing.



Engraving Cutters

- Standard tools for engraving plastics and metals.
- Extensive variety of cutter types for every engraving application.
- Tools for collet spindles and top-loading spindles. Unsharpened blanks also available.
- See our *Industrial & Collet Tools* and our *Engraving Tools* catalogs for full product offerings.

SHK \varnothing = 1/16" to 1"	SHK \varnothing = 1.5mm to 15mm
CED = .000" to SHK \varnothing	CED = 0.00mm to SHK \varnothing
OAL = 1-1/2" to 7"	OAL = 38mm to 160mm



Antares, Inc.

Router Tools • Engraving Cutters • Vinyl Plotter Blades

For over half a century, Antares has been dedicated to producing quality cutting tools specifically for the engraving and sign industries. We manufacture a large variety of tools including router tools, engraving cutters, and vinyl plotter blades. Our standard tools and specialty cutters are available in a wide variety of sizes for use in most manual and computer operated machines. By designing and manufacturing our own cutting tools, we are able maintain the most exacting tolerances and overall quality. Our unique grinding techniques yield superior finishes and produces the finest, sharpest cutting edge.

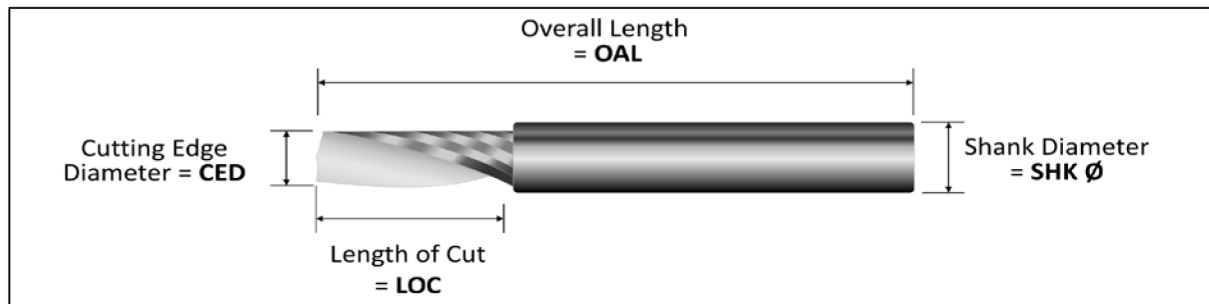
The Antares Advantages

- Unique end geometry for faster on-center plunge cuts
- Polished flutes and cutting edges for superior finishes.
- Raised lands for increased strength
- Highest quality micrograin carbide.

Tool Coatings

- Antares products are available with tool coatings for an additional charge and production time.
- Minimum quantities apply.
- Contact us for information and pricing.

Terminology and Abbreviations



Terms and Policies

Warranty Information

Antares, Inc. warrants its products to be free from defects in workmanship and materials, and will guarantee conformance to physical specifications. Due to the variety of applications and conditions involved, we can not guarantee tool performance. We stand by what we sell and will repair or replace defective products which have not been damaged through misuse, unauthorized modification or repair. Antares, Inc. will not be liable for any injury, loss, or damage, direct or consequential, arising from the use of its products.

Terms

Terms are net 15 days, F.O.B. Horsham, PA, for credit approved customers only. We also offer Visa®, MasterCard®, and American Express® sales, as well as C.O.D. delivery.

Returns

There is a 15% re-stocking fee for the return of standard stock items. Sorry, but custom-made tools are not returnable.

Minimum Order

The minimum order is \$25.00.



418-4 Caredean Drive
Horsham, PA 19044

Email: antares@antaresinc.net
Website: www.antaresinc.net

Phone: (215) 441-5250
Fax: (215) 441-0154