Edge of Arlington Saw & Tool, Inc.

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Item #46294-K, Amana Spektra™ Solid Carbide 0.10° Angle, 1/8" Radius, 1/4" Dia 2D/3D CNC Carving Bit
$83.74
Thank you for shopping with us!

Amana Spektra™ Solid Carbide 0.10° Angle, 1/8" Radius, 1/4" Dia 2D/3D CNC Carving Bit

Specially designed for 2D and 3D CNC profiling and carving in plastic aluminum & wood with machines such as " i-Carver," CNC Shark®, ShopBot®, Datron & Carvewright™. The high-shear ball nose tips cut smooth 2D and 3D contours with reduced stepping, while the proprietary Spektra™ coating (applied by the physical vapor deposition coating process) provides high resistance to wear, sharper cutting edges, extended tool life, and less friction & heat buildup. Tools are manufactured with high balance that allows them to run up to 60,000 RPMs. Adjust your chip load and feed rate accordingly.

Applications: A perfect bit for 3D carving. Precision 2D and 3D large scale carving. Great for deep profiling. Dimensional signage 3D millwork. 2D and 3D contouring, profiling, modeling, and pattern-making for cabinetry sign-making, furniture-making, and jewelry mold-making. Compatible with CarveWright™ and CompuCarve woodworking systems. Perfect for model-makers on large 3D milling profiles in abrasive EPS foam and other materials.

Excellent for cutting: Acrylonitrile-Butadiene-Styrene (ABS), Acrylic, Acrylic Stone, Aluminum, Brass, Bronze, Composite, Copper, Corian®, Coroplast®*, Dibond®, Ethafoam***, Ethylene-vinyl Acetate Foam (EVA), Expanded Polypropylene (EPP)**, Expanded Polystyrene Foam (EPS), Extruded Polystyrene Foam (XPS), Fiberglass, Fiberglass PCB Board, Foam Board, Graphite, HDPE, HDU, 20lbs High Density Urethane, Lexan™, MDF/HDF, PALFOAM™, Phenolics, Phenolic Composites, Plastics, Poly (methyl methacrylate) (PMMA), Polyethylene Foam***, Polylam***, Polyurethane Foam, PVC, PVC Foam Board, Sign Board, Sign Foam, Titanium, Tooling Board, Wood, XPE (Crosslinked Polyethylene), Foam.

*A soft plastic cardboard made with super soft super flexible PVC.
**Expanded polypropylene (EPP) is a foam form of polypropylene.
***Ethafoam Polyethylene and Polylam are durable flexible closed-cell foams with excellent memory.

Our Spektra™ bits feature a nACo® nanocomposite coating with an extreme nanohardness and heat resistance. With a brilliant distinctively-tinted coloring, nACo® provides additional improvements in four critical aspects of router tooling:

-nACo® coating is a micro-thin ceramic coating that enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality.
-Coating prevents high heat and oxidation, which is detrimental to cutting tool performance.
-Multi-colored hues, while attractive, will dissipate upon use and yet coating will remain fully effective.
-nACo® offers approximately 4,500 Vickers for impressive solid hardness on cutting areas of the tool, for an increase up to 2.5 times compared to uncoated bits.

Note: Blue based color dissipates immediately upon use. nACo® nanocomposite coating will not wear off.



Milling Plastics: In a milling application all plastics tend to behave differently so attention must be paid first and foremost to heat input as that greatly impacts surface finish and chip control. Some of Amana Tool carving tools as you can appreciate have a very small diameter; therefore, any material chip-loads need to reflect that small size. It can however withstand RPM's up to 60,000 RPMs. A directed air-blast to keep chips away along with cooling the tool and workpiece are always welcome. Suggested starting spindle speed might be 18,000 RPM; there needs to be some experimenting on the part of the programmer to best find an acceptable finish.

SPECIFICATIONS	
Manufacturer	Amana Tool
Diameter	1/4 in
Carbide H, or Cut H/L/W	1/2 in
Flute	2
Overall Length	3 in
Radius	1/8 in
Shank	1/4 in
Angle	0.10 deg
Pack Quantity	1