Edge of Arlington Saw & Tool, Inc.

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Amana Tool Extra Long CNC 2D and 3D Carving Ball Nose Straight Angle Spektra™ Extreme Tool Life Coated Reduced Shank Router Bit

Thank you for shopping with us!

These router bits are made with an extra-long reduced shank section for deeper reach and better chip clearance. Amana Tool®'s Modern Materials Finishing Geometry (MMFG) incorporates high shear, multi-flute, and Spektra™ coating designed for the ultimate combination of finish and tool longevity in aerospace materials. Modern-day materials present challenges to the fabricator, using these special multi-flute edge tools featuring Spektra™ ceramic coating addresses these challenges with a winning geometry combination. The simultaneous 3 axis motion with the appropriate software allows full 3D capability that provides sign- and 3D model-makers the ability to work with any material.

Specially designed for 2D and 3D CNC profiling and carving in plastic & wood with CNC machines. 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 and heat buildup. 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 work piece are always welcome. 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
• 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
• Composite
• 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
• High Density Polyethylene (HDPE)
• High Density Urethane (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
• Tooling Board
• Wood
• XPE (Cross Linked 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, which 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.

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.

Item #	Cut Height/Length	Overall Length	Radius	Shank	Angle	Price
46490-K						**$91.43**