

SPECIALTY CARBIDE AIRCRAFT TOOLING

Composite Drills
Aircraft Reamers
Drilling Routers
Piloted Countersinks
Made to Order Tools



QUALITY TECH TOOL

Quality tooling designed for the aircraft industry



SPECIALTY CARBIDE AEROSPACE TOOLING



QUALITY TECH TOOL

550 Bennett Road
Elk Grove Village, Illinois 60007
USA
Phone: 847.437.3800 Fax: 847.952.0789
Email: qttinc@qualitytechtool.com
qualitytechtool.com

ISO 9001:2008 Certified

DISTRIBUTED BY:

qualitytechtool.com

Quality Tools Designed for the Aircraft Industry



COMPOSITE DRILLS

Dagger Drill

This carbide drill is designed to produce holes in composite materials without delamination around the hole or fraying the composite material.

Kevlar Drill

Kevlar and similar woven materials pose many problems with quality exit holes. The unique brad and spur inspired point cuts a clean hole with elimination of fraying experienced with conventional drill points.

8 Facet Drill

This popular configuration drill is constructed with a double angle point, which has proven excellent in drilling graphite composite materials, as well as other materials. It eliminates delamination on the exit and eliminates de-burring operations.

Threaded Shank Coolant Fed Straight Flute Drill

This coolant fed straight flute drill reamer can be used as a one shot drill reamer, which is used to drill through a combination of aluminum and composite materials. This style of drill can also be adapted to take a PCD tip for extended tool life.



AIRCRAFT REAMERS

Carbide Tapered Reamer

Our carbide tapered reamers are designed for finishing hole sizes in composite materials. The geometries incorporated into the design of these tools produce excellent results with flaking, tearing, and cracking. Tapered reamers are also available with tri-flats, threaded adapters and quick change adapters.

Piloted Threaded Shank PCD Reamer

This straight flute PCD polycrystalline diamond reamer is available with or without a threaded shank or a pilot diameter. PCD reamers are also available with tri-flats and quick change adapters.

Piloted Reamer with Quick Change Adapter

These long pilot reamers are 6" total length with 4" flute length. They are designed for longer reach applications and produce larger diameter close tolerance holes. Piloted reamers are also available with tri-flats and threaded adapters.



ADVANCED ROUTERS

Compression Router

This carbide router is designed primarily for use with composite and honeycomb materials. The design with opposing flutes, compresses the material to produce an excellent finish on both sides of the material being routed.

Diamond Cut Router

The carbide diamond cut router is used on a variety of materials including graphite composite materials. They are available in four different end cut styles, depending on the specific application.

PCD Straight Flute Router

This polycrystalline diamond flute router is good for machining, as well as assembly operations. This router is also available in various number of flutes.

PILOTED SPECIALTY COUNTERSINKS

Core Drills

Core drills are used to enlarge previously drilled holes in graphite, graphite epoxy, composites and composite stacks. Graphite epoxy may be used in combination with fiberglass or metallic material. For use with hand drill motors. Core drills can be made with threaded adapter or straight shank.

Drivematic Drill / Countersink

Carbide drill and countersink with solid shank is used in aerospace drivematic drill riveting machines.

Nutplate Drill / Countersink

Carbide drill and countersink with 135° split point. External thread and 60° cone seat with pin spanner wrench holes.

Spacematic Drill / Countersink

Carbide drill and countersink with internal thread and 60° cone seat with pin spanner wrench holes or optional wrench flats for slotted type drill wrenches.

2 Flute and 3 Flute Piloted Countersink

This countersink is designed with safe, integral piloted construction. The threaded shank style is an excellent choice for portable drill motors and its precision ground fluting geometry generates a clean, bur free accurate seat for aircraft fasteners.

Integral Piloted PCD Countersink

The Integral Piloted PCD Countersink is designed for customer specific applications of machining as well as assembly. PCD countersinks are made with a controlled fillet radius.