

DIAMOND TOOLING FOR COMPOSITE MATERIALS



Abrasive Technology's diamond tooling is perfectly suited for composites as it provides comprehensive rough to finish solution, no matter what composite you're using. We specialize in developing custom solutions, and we create tools that are designed and engineered for your specific application.

PCD TOOLING

P.B.S.[®] TOOLING

FLEXIBLE DIAMOND TOOLING

PCD TOOLING

PCD TOOLING

Increased Tool Life

- Reduced cost per inch machined
- Random orientation of the diamond crystals means uniform hardness and abrasion resistance in all directions
- PCD manufacturing process is controlled and provides consistent physical properties from part to part

Improved Machining Characteristics

- Excellent diameter tolerance control
- Does not bond with work piece materials so edge build-up is minimal for improved surface finish
- Reduced coefficient of friction versus tungsten carbide which minimizes heat buildup at the cutting edges
- Minimizes fiber tear-out and delamination

Reduced Cycle Time

- Cycle time reduced due to the thermal conductivity and heat resistance of PCD

Resharpenable

- Continued use of tool for multiple cycles after initial purchase
- Resharps/regrinds at reduced cost compared to new

Designed for Use in Composites such as:

- CFRP, RCC, CFRP/AL stacks, MMC, Phenolic, Hard Rubber, FRP, Aluminum alloys, Brass and Bronze alloys, Zinc alloys, Magnesium alloys and Sintered Tungsten Carbide

