

Superion™

Solid Carbide Special Capabilities



a solid combination

Providing New Capabilities

With the acquisition of Superion, Inc., Allied Machine has gained the ability to provide top-of-the-line solid carbide special tooling. Superion has built its reputation as a manufacturer of innovative special solid carbide and PCD tipped rotary cutting tools such as:

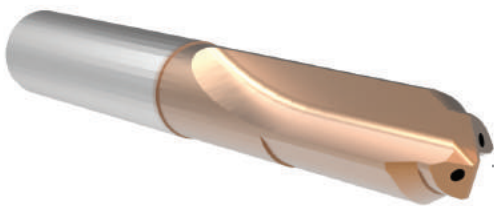
- PCD Tools
- Reamers
- Drills
- Step Drills

Superion is widely recognized as the expert in developing customized solutions in specialty tooling. And now Allied Machine is bringing that expertise to you.

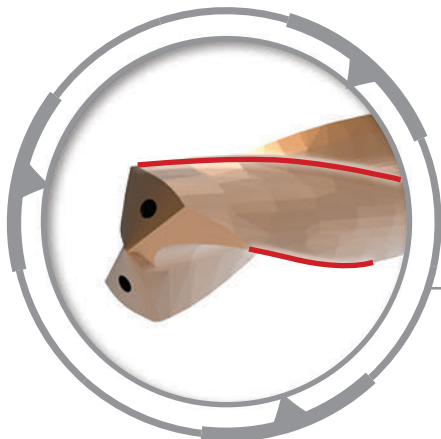
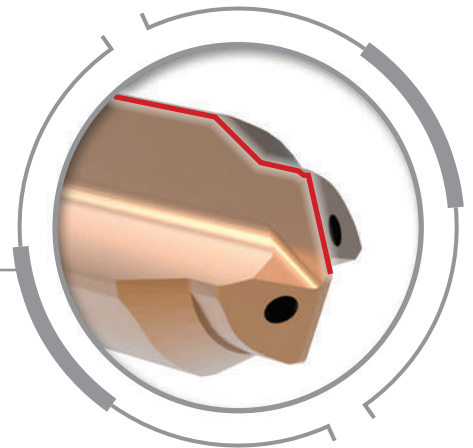


SOLID CARBIDE
SPECIALS

PCD Tooling | Burnishing Drills | Solid Carbide Drills | Step Drills / PCD Step Reamers



FORM DRILL



DOUBLE MARGIN



A DRILLING
B BORING
C REAMING
D BURNISHING
E THREADING
X SPECIALS



01 PCD DRILLS



Industry Application
Aerospace



Industry Application
Automotive

Wafer Style

- Wide diameter range of 6mm - 32mm
- Can be designed with multiple steps
- Can be designed with coolant through

Solid Head Style

- Diameter range of 3mm - 12mm
- Available with PCD to the center of the tool
- Can be reground

Aerospace

- Solid head PCD tools are used in composite materials (CFRP)
- Wafer tools are used for aluminum applications



02 SOLID CARBIDE DRILLS



Industry Application
Firearms



Industry Application
Automotive



Industry Application
Aerospace

Diameter | 20xD

- Wide diameter range of 3mm - 20mm
- Depth-to-diameter ratio up to 20xD

Multi-Step

- Can be designed with multiple steps
- Reduces cost per hole by eliminating tool changes

Automotive | Firearm

- Customized solutions available for the automotive, firearm, and aerospace industries



03 BURNISHING DRILLS



Industry Application
Aerospace



Industry Application
Automotive

Range

- Wide diameter range of 3mm - 20mm

Design

- Straight flutes, thinned web, four margins
- Available with or without coolant

Materials

- Specifically designed for cast iron and aluminum applications
- Produces rounder, more consistent holes