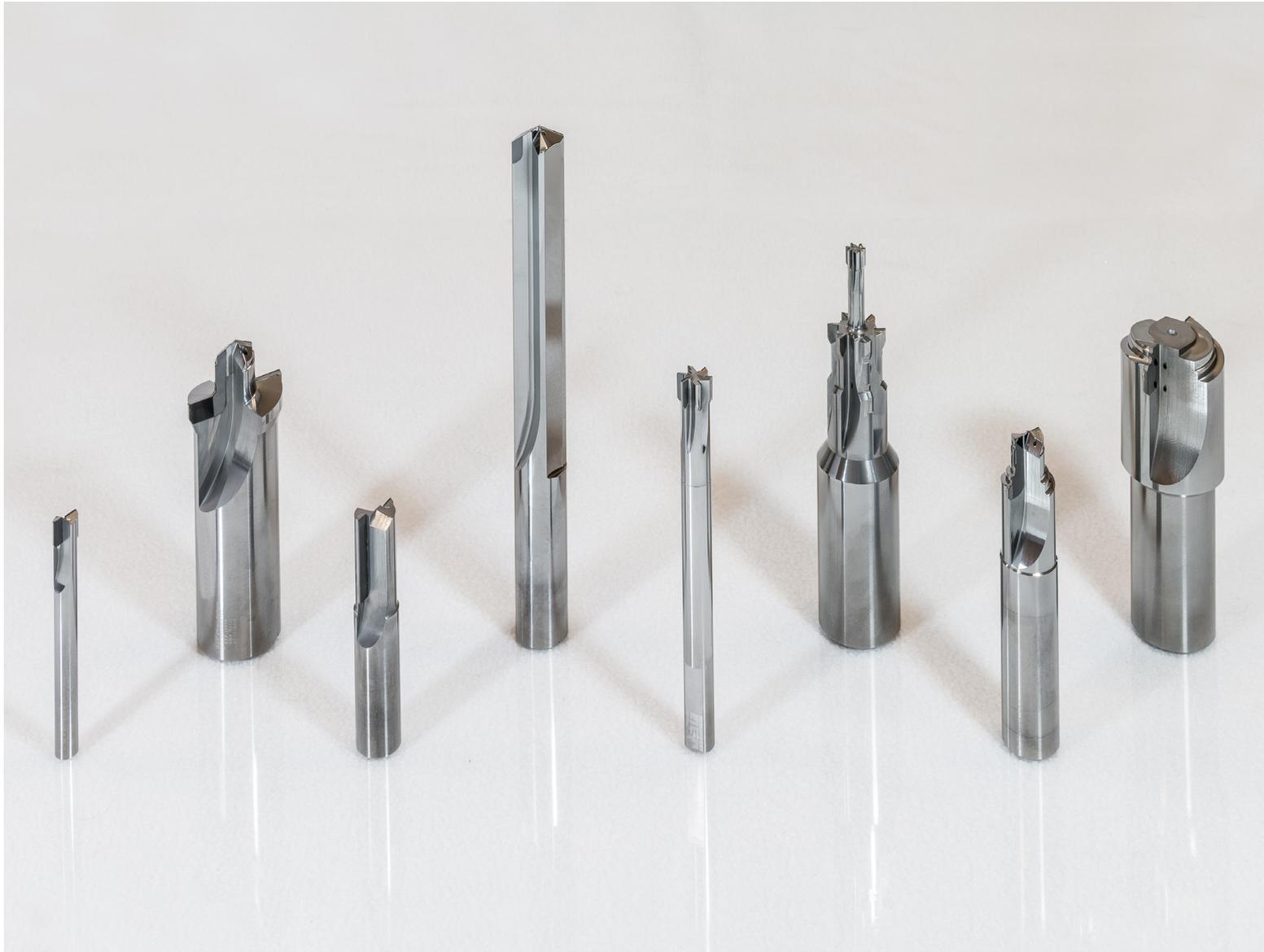


ROTARY POLYCRYSTALLINE DIAMOND TOOLS



PCD: Answering the Challenge of Today's Advanced Materials

As product compositions evolve and become more application specific, the quest to machine a perfect hole becomes increasingly difficult. Advanced materials such as carbon fiber stackups and exotic aluminum alloys have become harder to machine, yet manufacturers are demanding longer tool life and tighter tolerances. Polycrystalline diamond cutting tools have answered this challenge, and continue to be one of the most cost-effective hole making solutions. STF's rotary PCD tools are used throughout the world in a myriad of industries including automotive, aerospace and specialty products such as Apple iPhones and iPads.



Superior Quality: The Main Advantage of STF Precision Tools

In 2004 STF Precision began producing custom rotary PCD tools. We partnered with the best grinding, erosion and inspection equipment manufacturers. A lot has changed since then. CNC machines have become more sophisticated with onboard inspection capabilities and multi-tool loaders. We've added equipment annually to keep pace with technology and demand. To date we've purchased over 5 million dollars' worth of machines specifically for our PCD rotary tool production. We consider this segment to be one of our core competencies, and we will remain dedicated to producing the highest quality PCD tools with the quickest turnaround times in the world.

STF Precision Tools Produce the Sharpest Cut in the Industry

**Name**

Bolt Hole Drill

Industry

Automotive

Comments

Switching from Carbide to PCD allowed our automotive wheel manufacturer to reduce cycle times and save thousands of dollars per month in tooling costs.



Multi-Step Reamer

Automotive

This 3-step reamer has 6 PCD teeth on the minor diameter, 6 on the major diameter and 2 on the chamfer. Coolant channels help chip evacuation.



Side Relief Cutter

Automotive

6 PCD flutes held to within 2 microns runout over 120 MM helps ream a perfect hole in high silicon aluminum.



8 Inch Drill

Speciality

Long-reach coolant through PCD G Drill.