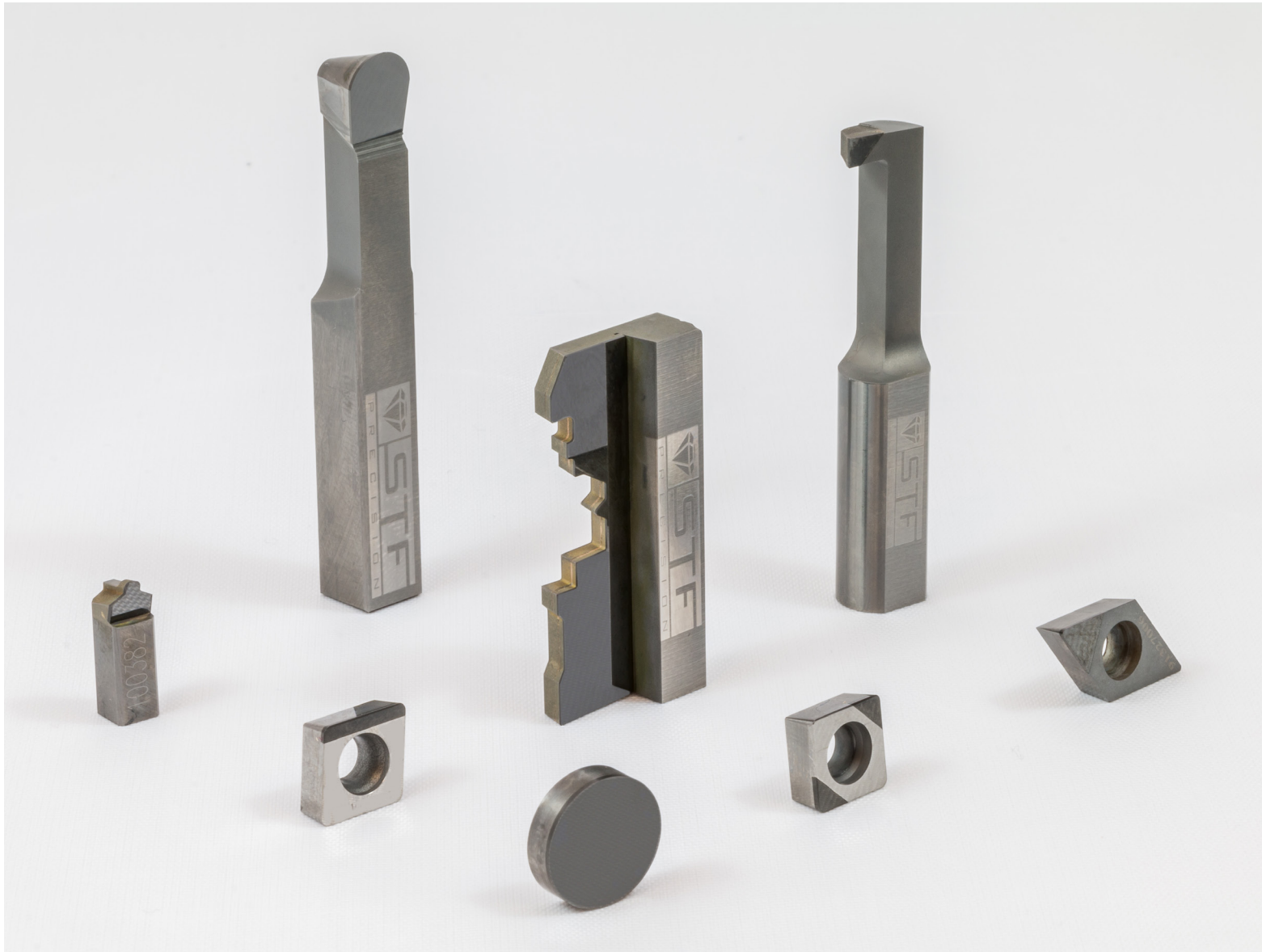


PCD TURNING TOOLS



We are Proficient in a Wide Range of Turning Tools

STF has been designing and manufacturing quality diamond turning tools for 25 years. We excel at producing custom boring bars, form tools, multi-tipped inserts, full face inserts and solid rounds. We have the equipment to tip nearly any kind of turning tool, and our regrind and retip programs allow customers additional tool usage at a fraction of the price of new tools.



From Custom Designs to Standard PCD Inserts

Each month STF produces a wide variety of PCD tipped inserts for turning non-ferrous metal, plastic and carbon fiber products. Our PCD tips are lasered to size in-house and then brazed using one of our vacuum furnaces or one of our many induction brazing machines. Smaller batch sizes are completed on a manual machine while larger lots are finished on one of our 10 robot loaded CNC grinders. Tools requiring edge preparation are also honed or polished in-house.

STF Precision Tools Produce the Sharpest Cut in the Industry



Name

Form Cutter

Industry

Automotive

Comments

This intricately-shaped PCD form cutter increased our customers tool life by 10x when they switched from carbide to PCD.



Full Radius Tool

Automotive

A solid carbide body and full PCD radius allows this tool to take a deep cut for a high silicon aluminum application.



Snap Ring Groover

Automotive

Positive geometry on the tip of this tight tolerance groove cuts the snap ring on a piston.



Full Face Insert

Automotive

A full face PCD tipped insert with 2 radii works well in an indexable cutter body.