

Machining of challenging superalloys

Achieve precision mastery in machining nickel- and cobalt-based superalloys – including Incoloy – and advanced composites.

Challenges

Hard, tough materials—such as hardened steels or nickel- and cobalt-based superalloys—can wear out turning tools in just a few passes, leading to costly downtime and reduced efficiency.

Consequences

- Frequent tool changes
- Higher production costs
- Insufficient surface quality
- Inconsistent quality
- Burr formation on edges



Solutions

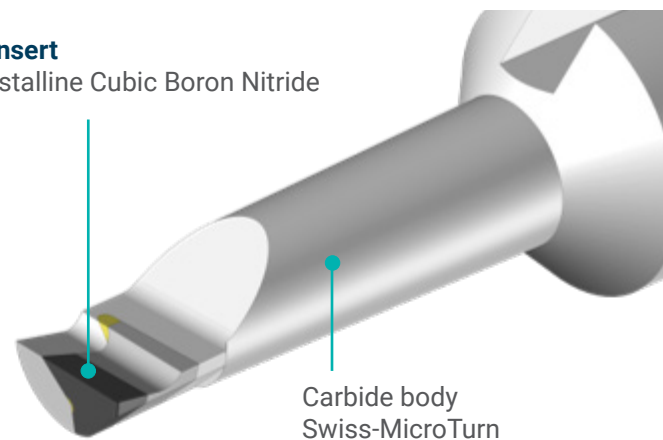
IFANGER Swiss-MicroTurn tools with PCBN inserts, expertly brazed onto robust carbide bodies. Designed for exceptional performance in bore diameters starting from just 2 mm (0.0787"), these tools deliver unmatched accuracy and durability.

Customize every detail—tool radii, rake and clearance angles, plus tool and neck lengths—to perfectly match your material requirements or the most intricate workpiece geometries.

Precision. Performance. Perfect fit.

PCBN insert

Polycrystalline Cubic Boron Nitride



Benefits

- Extended Tool Life
work longer between changes
- Optimized Cutting Efficiency
faster, smoother operations
- Increased Throughput
more parts in less time
- Unmatched Precision and Surface Finish
flawless results every time

Get in touch