

TA Technology: SmoothCoat®

Material Warning



SmoothCoat®

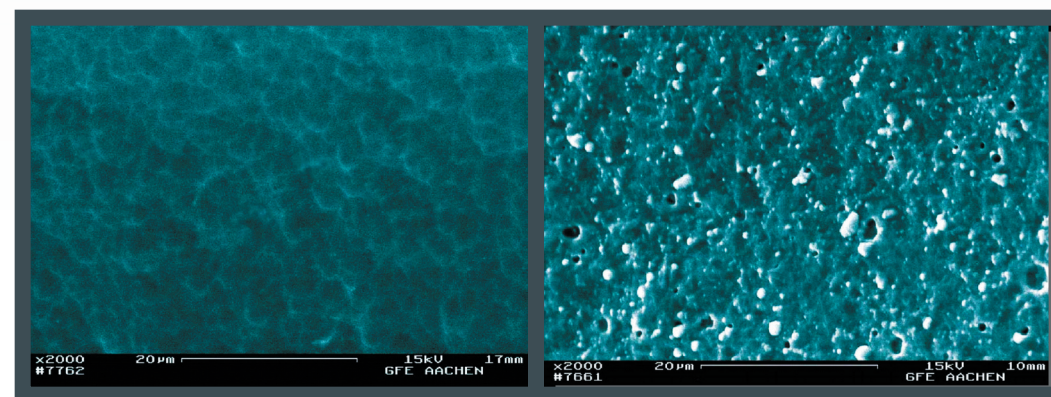
SuperNitride PVD Hard Coatings Exclusively by Tool Alliance®

The Coating Process The challenge of finding a coating method to leverage 100% of the inherent assets of our carbide grade and grinding technologies was difficult. What we finally discovered was such a perfect fit and so logical for our product lines that we invested heavily into the process we now call SmoothCoat®. Much more than simply the standard arc-deposited PVD coating, SmoothCoat involves sputter multi layering and a multi step prep & post operation called Micro-Blasting. The advantages of this procedure include relieving of tensile stresses underneath the cutting edge, increased stability of the coating surface, and perhaps most importantly, elevating SmoothGrind® even another notch by leveling and activating the cemented carbide substrate. The result is a smooth, shiny, tough, and durable surface that can withstand tomorrow's machining requirements and outlast competitive coatings. Additionally, we've made it a standard feature on thousands of our standard catalog items. Our coating services are performed within our own factories for quality & extremely quick turnaround times.

Coating Availability Order by adding the suffix TA, TN, AT, TC, A1, D1, or D2 to the EDP #.



Material Hardness ↑



Our coating @ 2,000X (left). Everybody else's (right). Note the surface consistency and smoothness.

In-house coating systems provide for consistent tool to tool performance & fast deliveries.



SmoothCoat®

Material Abrasiveness →