

PRODUCT

Super Hard Tool Making

Diamond / CBN tools

- Tungsten Carbide base
- Inserts
- Complete 3D machining

Machining tools in automotive, aeroengine, mining markets

LMJ used for:

- Cutting inserts and tools
- Complex multi-tip tools



CHALLENGE

Tight Tolerance 3D Machining

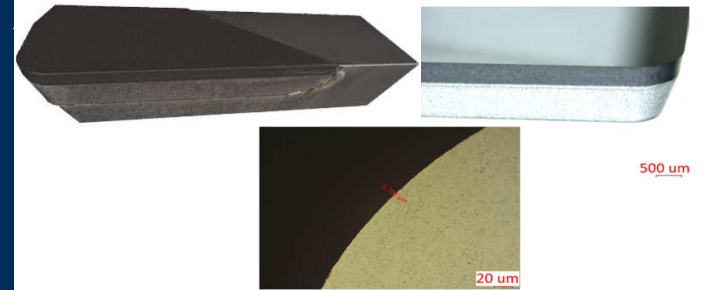
Repeatable and high-speed process to machine super hard materials. Very tight tolerances.

Main processing criteria:

- Tight tolerance cutting angles
- Speed
- Surface finish

Machining technologies able to reach these criteria:

- Grinding
- Laser MicroJet (LMJ) - water jet guided laser technology



SOLUTION

Higher quality, enables new applications, better cost of ownership

LMJ advantages versus grinding:

- Speed
- Lower consumable costs
- Improved overall piece cycle time
- Repeatability

Installed machine type:

- 5-Axis LCS 305
- 100 W green laser

