

MMP in the Tool & Die Industry

> Precisely controlled selective surface finishing

The **Micro-Machining Process (MMP)** is unique in its ability to select which elements of surface roughness will be removed, and which, if any, will be left intact. This unique selectivity allows MMP to create surfaces that are optimized for specific applications such as stamping, cutting, extruding, and injection molding.

Since optimized surfaces improve the performance of cutting edges, MMP can significantly extend the effective life of hand tools, cutting tools, and dies. MMP treated molds improve cycle time and reduce fouling, resulting in increased productivity and mold life.

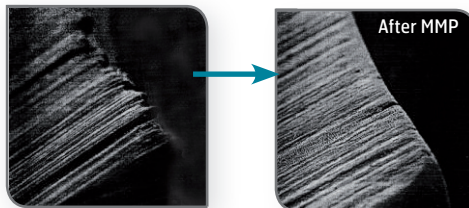
Tool

Steel tooling, stamping punch
 Fine blanking die
 Blanking punch
 Carbide die

Effective life increased by up to

250%
 400%
 600%
 700%

500X enlargement of cutting edge:
 micro-burrs are removed,
 increasing edge strength



> Materials treated

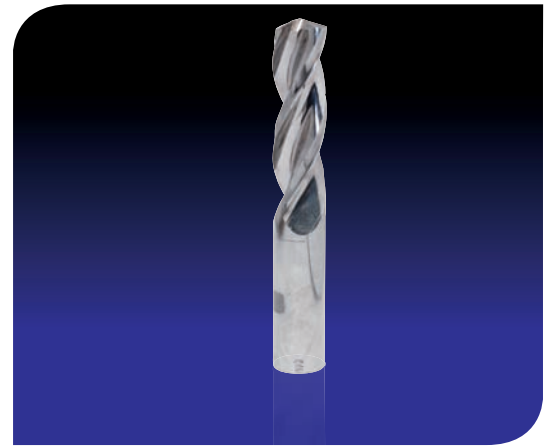
- Steels
- Alloys
- Carbides
- Ceramics
- PVD and CVD deposits

> Applications

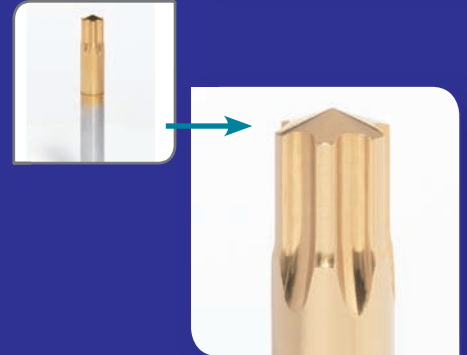
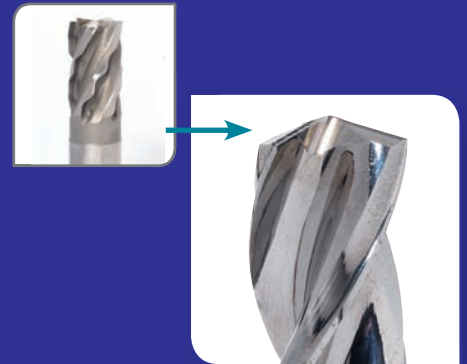
- Cutting tools
- Calibration dies, punches, drawing tools
- Plastic injection molds



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Cutting tools, dies, and punches



Injection molds

