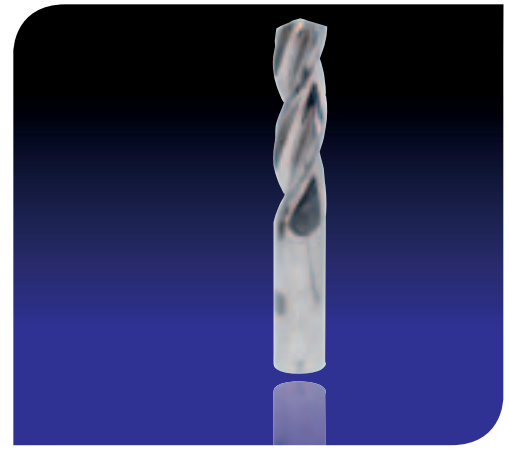


The tool and die industry



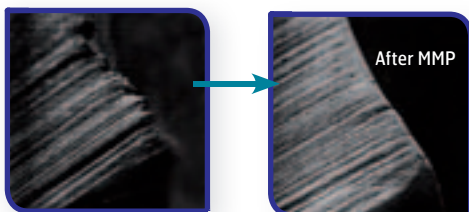
> Ensuring selective surface micro-structure conservation

The micro-machining process possesses a unique capacity to select roughness. The resulting surfaces are particularly suitable for stamping and cutting tools, dies, and injection moulds.

In addition, MMP can significantly increase the lifespan of **hand tools, cutting tools, and dies**.

- steel tooling, stamping punch +250%
- fine blanking die +400%
- blanking punch +600%
- carbide die +700%

Micro-burrs are removed and cut edge strength is increased



500X enlargement of cut edge

MMP also enhances the performance of **injection moulds** by creating roughness profiles developed specifically to improve removal from moulds and eliminate suction effect and chemical adherence.



> Applications

- Cutting tools
- Calibration dies, punches, drawing tools
- Plastic injection moulds (e.g. automotive headlight lenses)

Treatment of the following materials is also possible:

- Steels, alloys, carbides, ceramics, and PVD and CVD deposits

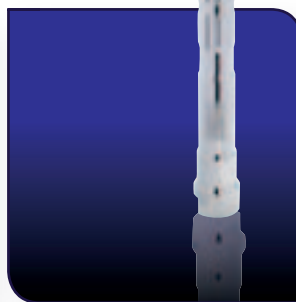
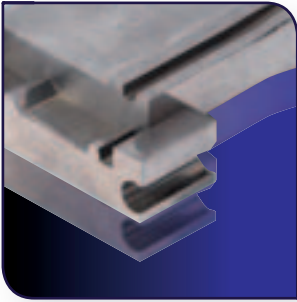


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The tool and die industry

> MPP presents a number of advantages for cutting tools, dies, and punches



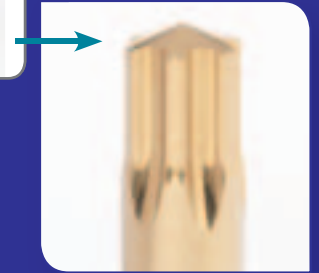
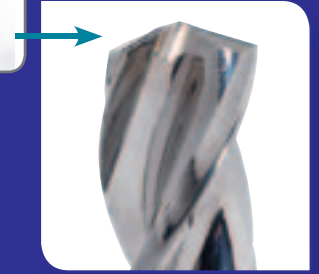
- Increases resistance to corrosion
- Reduces friction
- Ensures controlled sharpness of cutting edge
- Increases machining speeds, reduces machine stress and, clearing of scrap
- Improves adherence of thin coatings such as PVD; MPP can be used before and after coating
- Reduces seizing and sticking after PVD treatment
- Increases resistance to wear
- Improves fluid flows
- Maintains oil film for lubrication
- Extends part lifespan

Added value

- Very short lead times
- Each part and batch can be reproduced identically to industrial standards
- Ensures industrial-standard traceability and uses certified quality procedures



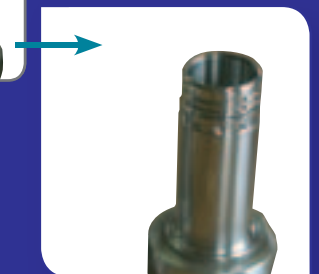
Cutting tools, dies, and punches



> MPP presents a number of advantages for injection moulds

- Improves removal from moulds
- Reduces injection cycle times (by more than 15%)
- Reduces clogging
- Eliminates vent blocking
- Reduces friction
- Increases resistance to wear
- Improves adherence of thin coatings; MPP can be used before and after coating

Injection moulds



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