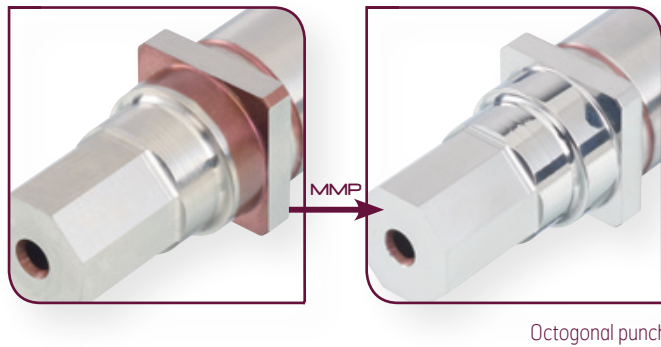


# Forge, Stamping and Die

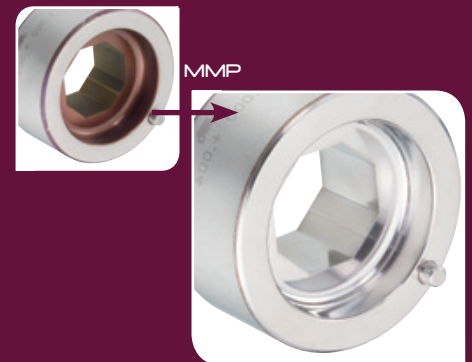


## > Selective material removal enhances cutting edges

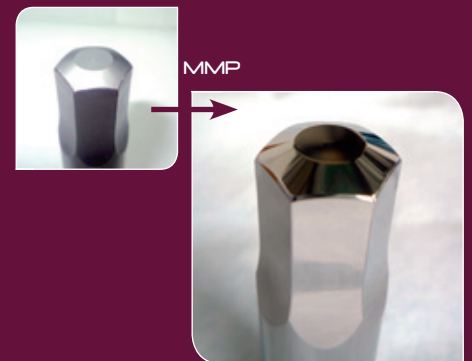
The Micro Machining Process (**MMP**) targets material removal in a unique way that allows for dramatic surface quality improvements without damaging cutting edges. The overall effect is to create cutting or forming surfaces that have a more even distribution of forces, this resulting in longer tool life and superior part quality.



Octogonal punch



Octogonal die



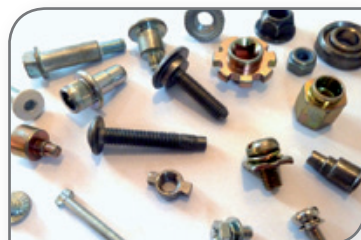
Hexagonal punch

## > Technical benefits of using **MMP**

- Reduction of friction
- Improved lubrication / more consistent oil film
- Superior adhesion of thin coatings such as PVDs
- Reducing seizing and sticking after PVD treatment

## > **MMP** advantages

- Superior reproducibility
- Improved tool life
- Increased homogeneity



## > Applications

- Screw Head punches
- Carbide punches
- Cutting and stamping dies



## > A unique process worldwide

The **MMP TECHNOLOGY®** makes it possible to obtain super-finished surfaces by selective removal of successive “frequency” ranges of surface roughness. This technique enables a level of control that is not possible with traditional polishing methods.

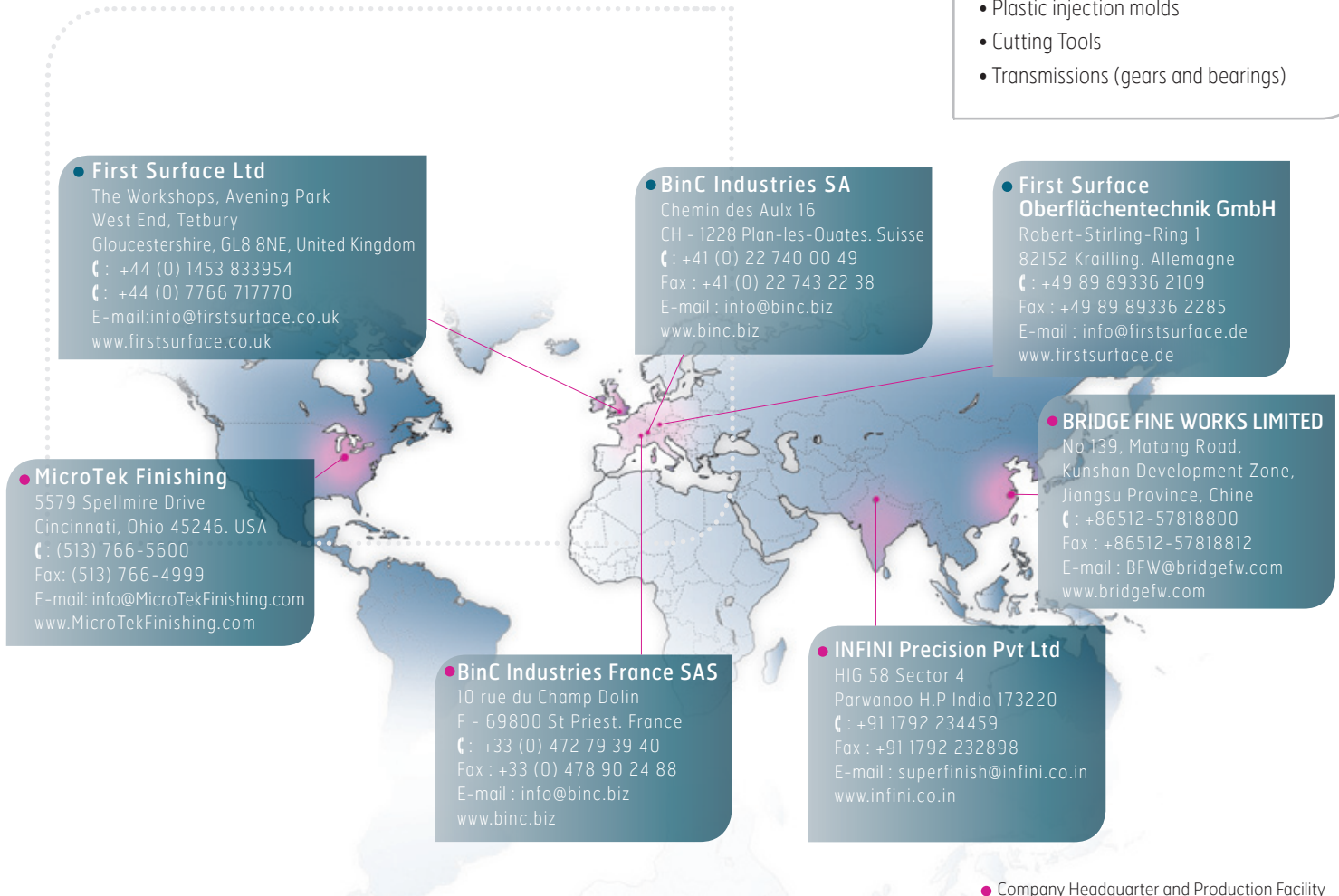


## > A global expansion strategy

The **MMP TECHNOLOGY®** process is available exclusively through 7 companies located in Europe, the United States, India and China, as follows :

### Seven key markets

- Aerospace
- Forging, Stamping, and Die
- Additive manufacturing
- Medical implants and instruments
- Plastic injection molds
- Cutting Tools
- Transmissions (gears and bearings)



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