

# PULSE FORGING – 3D ENGRAVING AND SURFACE POLISHING

## FEMTO – THE PROCESS EXPERT

The Femto combines two important quality processes: high-precision 3D engraving and surface polishing. The base of this innovative technology from ACSYS is called Pulse Forging. The special capabilities of this patented process shortens the production time of a stamping-die heavily.

### SHINY SURFACE WITH LASER

With Femto you can produce high-quality engravings with fine details and polish the surface, all in only one machine. The special Pulse Forging technology by ACSYS smooths the smallest structures with a surface roughness of only SA 0.1  $\mu\text{m}$  – more accurate than any other polishing process and much faster compared to traditional handwork.

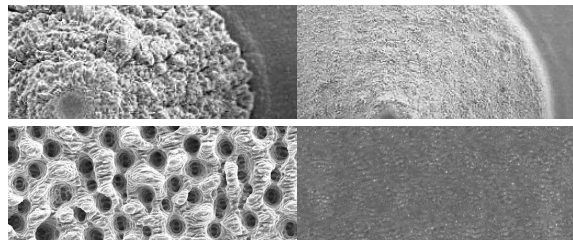
With pulse forging to surfaces with an SA of

# 0,1 $\mu\text{m}$

Pulse Forging works very gently on the material. Its laser pulses do not remove any material, but compress it. All material properties are completely preserved, the hardness of the surface remains.

### THE PULSE FORGING TECHNOLOGY FROM ACSYS BRINGS YOU MEASURABLE EFFICIENCY ADVANTAGES:

- Smooth and shiny surfaces
- Laser-typical precision for engraving and polishing
- Very good repeatability and automation
- Incredible efficiency and time saving



Surface after engraving (left)

Precisely polished with pulse forging (right)

## PICO – THE ENGRAVING CHAMPION

Fine structured 3D engravings with precise contours are the domain of Pico, it lasers material faster than any other 3D engraving technology. With its high precision and reliability, the Pico is the perfect choice for your production of stamping-dies.

### ACSYS IS READY FOR REQUIREMENTS

Every product is different and every stamping-die has its own requirements. Thanks to the high level of competence in laser technologies, ACSYS can provide you always with the best solution!

