

posalux 01 EDM HP4 HP4

•FP1



Custom solutions in micro-erosion for mass production

HP4

DESIGNED FOR MASS PRODUCTION

- High productivity
- High positioning accuracy
- Process stability
- Easy machine maintenance
- Multi spindle machine available
- Compact water deionization system
- Siemens 840D SL





•FP1

DESIGNED FOR FLEXIBLE SMALL BATCH PRODUCTION

- Prototyping small series machine
- High positioning accuracy
- Process stability
- Easy machine maintenance
- Single spindle
- Compact water deionization system
- Siemens 840D SL

Based on our profound experience in automotive applications we provide solutions for all high-end micro-machining needs

Micro-machining Micro-EDM • Based on the electro erosion • The shifting and guiding collets • Hole diameter from 50 µm to 2 mm precisely feed the smallest principle the integrated micro-(0.002 to 0.08 inch) electrodes available in the • Tapered hole with reverse taper up to 150 µm/mm EDM generator and a precise work piece positioning allow market, down to 35 µm. Wall thickness/hole diameter, ratio up to 12 • machining with shorter cycle times • Spindle rotation up to 3500 rpm Without burrs and material deposit, no micro-cracks • implying 25% more productivity. for shortest erosion time and • Smooth roughness : Ra < 0.2 μm ; Rz < 1 μm The Posalux CNC machine optimised material ablation. communicate with the micro-EDM • The erosion z-axis with parallelogenerator interface with highgram type flexible structure н 200 µm speed mode. removes mechanical axis resonances. 5 mm⁻ Surface finish Ra < 0.2 μm. • Automatic loading/unloading with 8 grippers • Elimination of micro-vibrations by separation of filtration tank from Accurate clamping devices machine frame. Short cycle times • Screen integrated on camera and automatic positioning program Customized software development •

- facilitate setting of the electrode and the needle of the part fixture
 Decrease of leak check time by 50 %.
- New interactive HMI:
 - Real time monitoring of process parameters
 - Storage and visualization of erosion time and electrode wear

Innovation

Custom devices and support

Traceability etc.

• Posalux technology support on micro-EDM parameters

• User interface options like MES, Flow measurement,



Release 1001

Founded in 1943, Posalux is a leading manufacturer of micro-technology machines intended for mass production. From our headquarters in Biel, Switzerland, we engineer and produce world-renowned system solutions.

Our clients are distinguished companies leading the automotive, electronic, watch, and medical industries. Thanks to our global network of Posalux branches and agents, we are able to provide reliable services and support to our customers worldwide.

EDM micro-machining

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