

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.

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High-tech solution for guide plates *p*-machining





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# FEMTO-LASER µ-machining solutions for high-tech production



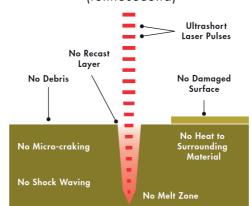
# FEMTO MONO

THE MOST ADVANCED LASER SOLUTION IN THE MARKET

# Technical highlights

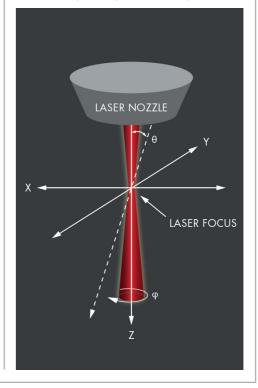
- Ultrashort pulses laser source (< 300 fs)
- Precession head with 5 optical axis
- High precision positioning X-Y table
- Interchangeable clamping devices
- Robust and multifunctional softwareFocal length measurement (autofocus)
- Powermeter for laser stability check
- Thermal stability control
- High resolution camera for repositioning jobs

# Ultra short pulse laser (femtosecond)



# 5-axis precession head

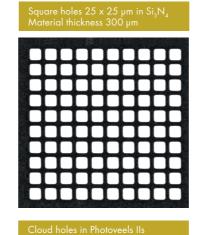
- Allows complete geometry achievement
- Avoids any damage on hole shapes

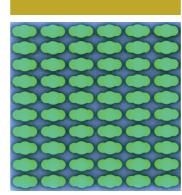


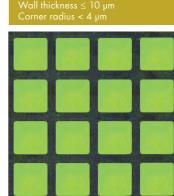
# Semiconductor probe cards Test fixtures

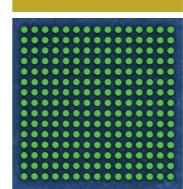
Electronic applications

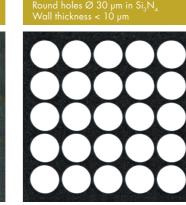
- High repetition rate and excellent beam quality
- Repeatability of hole quality
- Machine calibration accuracy < ± 1 µm
- ullet Process accuracy  $\pm$  2  $\mu$ m ( $\pm$  Metrology equipment error MPE\_XY)
- Unequaled productivity with higher yield rate
- Flexibility (drilling and routing)
- Wide range of materials (hard ceramics, polymers, copper and steel)
- No thermal effects (NAZ)
- Round, rectangular and any other hole shape capability
- Hole taper control
- Minimum diameters  $\leq$  20 µm with tight hole pitch (wall thickness  $\leq$  10 µm)

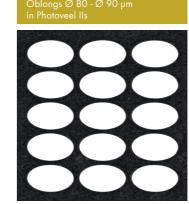


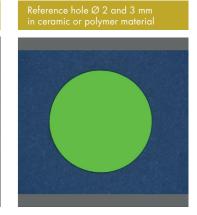












Test sockets

