SUPERLASERS FOR THE REAL WORLD

LASER MICROMACHINING

Research centers and high-tech industries like aerospace, automotive, medical or semiconductor require precise material processing and surface modifications. Laser machining benefits from high speed and precision, and it is an ideal tool for the processing of hard to cut materials by conventional technologies. It can be deployed on various shapes and types of material, and enables to achieve high throughput with very good quality and precision. High intensity of ultra-short pulses of various wavelengths allow further improvements of precise cutting, drilling and surface modification of metals, alloys, plastics, semiconductors, glasses, ceramics and composite materials



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PROTECT



CUSTOMER INSPIRED SOLUTION FOR SPECIFIC DEMANDS

FEATURES / ADVANTAGES

- Clean and eco-friendly technology
- Fast processing of various materials
- High precision and sharp edges

SPECIFICATIONS

- Pulse energy up to 10 mJ and pulse length < 3 ps
- High average power
- Output wavelength 1030 nm, 515 nm, 257.5 nm, and 206 nm
- Position precision up to 2 μm

APPLICATIONS

- Aerospace and automotive
- Semiconductors
- Biology and medical
- Electronics
- Tools production

OFFERED SERVICES

- Laser beam time rental
- Contract research
- Process development
- Feasibility study, proof of concept

For more information please contact: solutions@hilase.cz



OBSERVATION OF MANUFACTURED GEOMETRIES



SELF-DEVELOPMENT OF COMPLEX COMPONENTS FOR INCREASMENT OF PRODUCTIVITY AND PRECISION



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