Laser Micromachining Services at Tel Aviv University

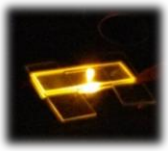
The ELAS Master Femto system:

Precise laser micro machining is achieved by ultra-short laser pulses, precision of positioning stages and state of the art optics. In MASTER series workstations femtosecond laser pulses cause minimal heat-affected zone and maximize spatial precision.

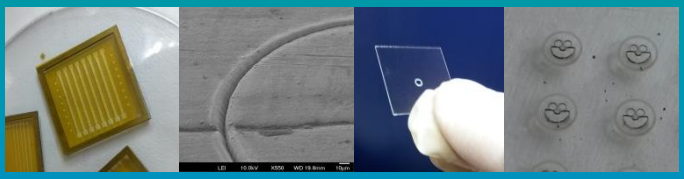
Specifications :

- Three possible wavelengths: 1064nm, 532nm and 355nm.
- Pulse length 280 femtosecond.
- Power up to 10W.
- Pulse rate between 44KHz and 200KHz
- Stage Precision ±1 micron.
- Spot size 2µm at 355nm, 30µm micron at 1064nm.
- Travel XY: 200mm Z: 100mm.
- Control by SCA software, can use DXF, PLT and STL files.

Machining Applications:



- Glass
- Thin metal sheets
- Si wafer cutting
- Polyimide (Kapton)
- PDMS
- Biopolymers
- Ceramics
- Silicon Nitride membranes
- Sapphire
- Diamond
- Carbon-fiber enforced resin



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For more information: http://www.e-lasers.com/systems/master-series