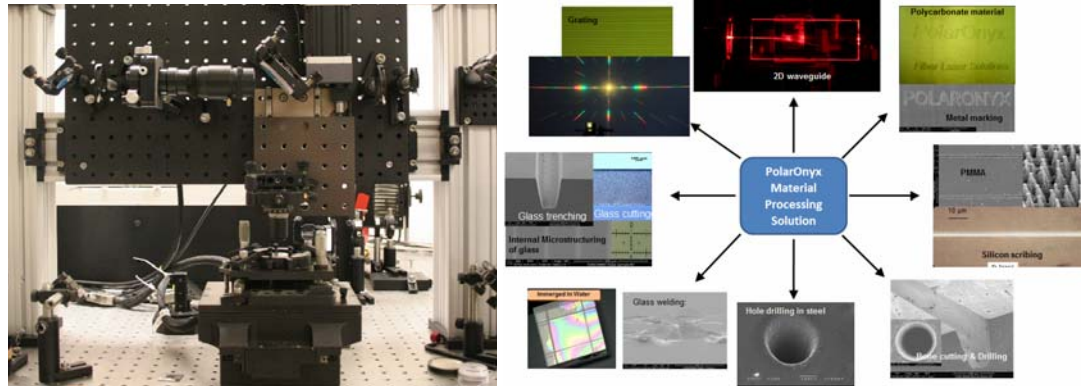


Laser Micromachining Tabletop

PolarOnyx



PolarOnyx laser micromachining tabletop setup (photo does not include laser) provides the most flexibility in a single laser micromachining platform. Equipped with high power and high energy femtosecond fiber laser, this system is capable of manufacturing various materials with high precision. The system provides researchers open interface and intuitive access to all systems' functionality including the laser, motion stages, scanner, control electronics and machine vision. It is the ideal solution for R&D engineers and scientists.

- Capable of welding, cutting, drilling, marking, surface texturing and intra-volume marking
- All type of materials from the hardest to the softest
- High precision (from microns to millimeters)
- Exceptional high quality (no heat-affected zone)
- Single-step process with no post-processing
- High flexibility in pattern design

System Specifications

Laser	Laser-Femto Uranus series femtosecond fiber laser
Axes travel (X/Y/Z)	160x160x50 mm
Max. acceleration	1g
X/Y Position accuracy	±0.25 µm
X/Y Repeatability (bidirectional)	±0.075 µm
Axes velocity	Up to 350 mm/s
Min. focal spot diameter	1 µm
Min. cutting line width	1 µm
Pulse control	1Hz-100kHz
Control software	G code
Power consumption	1000 W, 110/220 VAC
System weight	~200 kg
System dimension	~1500x1200x700 mm (LxWxH)
Enclosure	Open

* Photo is for display only. Final product delivery may vary, depending on customer requirement and final system design.

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