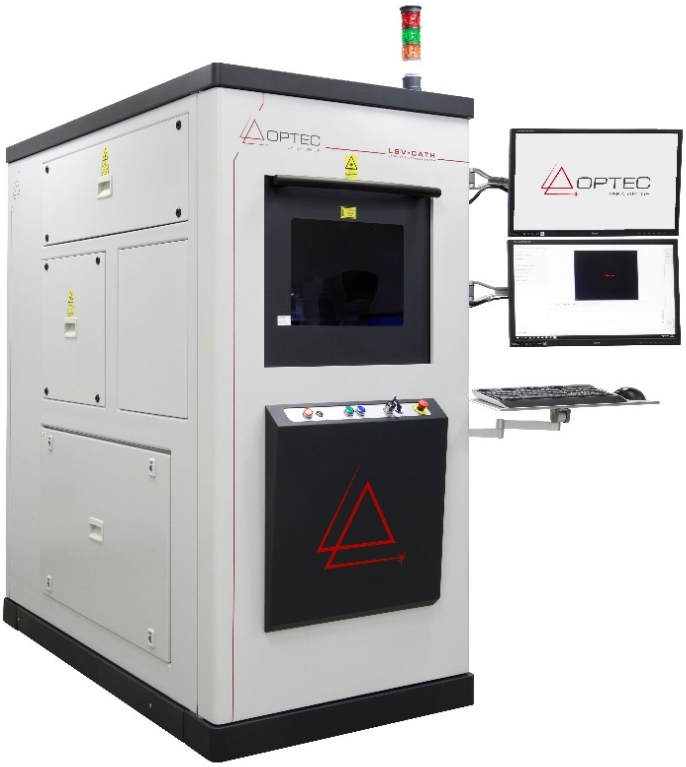
LSV-Cath

Catheter Laser Micro-machining Workstation



Unparalleled athermal laser catheter processing

A self-contained workstation for R&D or production

Versatile, reliable, and easy to use, the Light Shot (LS) makes in-house excimer laser processing of catheters possible with minimal training and without needing a skilled technician.

Optec's intuitive Process Power™ software includes method-development functions that facilitate writing recipes for rapid prototyping, pre-production, and production.

The LSV3 is equipped with mask-projection optics under PC control for near photolithography precision ablations of polymers, leaving clean, sharp edges and flat surfaces.

POLYMERS, EPOXIES, LAQUERS

Ablate windows, drill thru-holes and blind holes, reduce wall thickness (skiving), remove flashing, coatings and residues from electrical contacts, electrodes.

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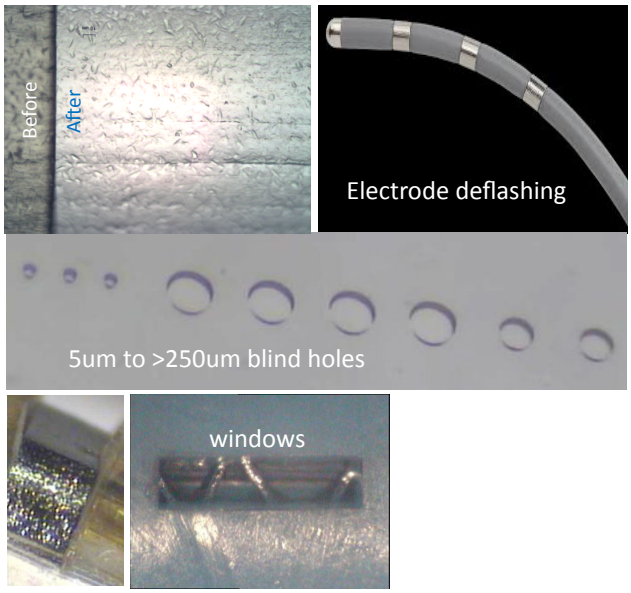
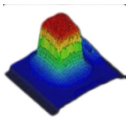
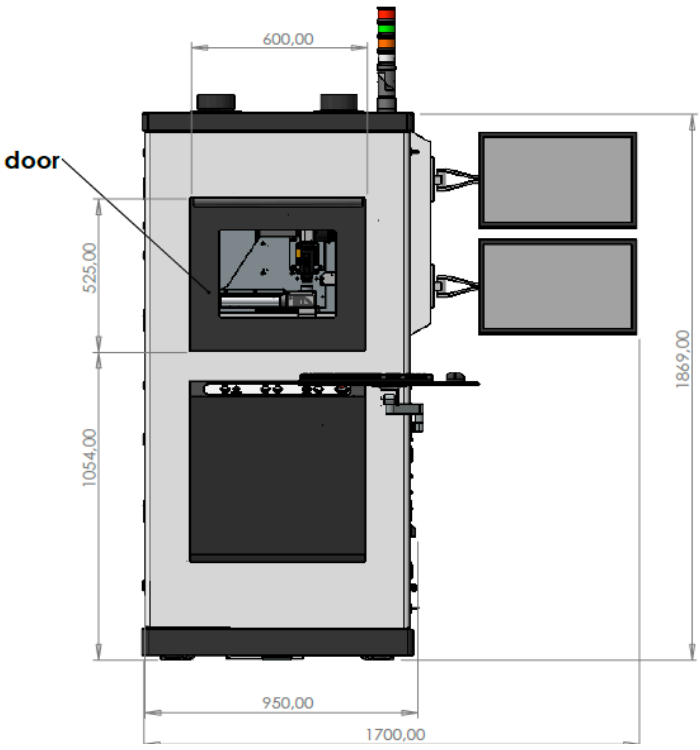
* *UV laser micromachining without HAZ (heat affected zone), debris, residue, or oxides.*
* *Parfocal performance - when the part is in focus the laser beam is in focus. For rapid processing with high repeatability.*
* *Surplus energy density when more power is needed for the most challenging materials.*
* *User friendly software make it easy to develop part processing recipes.*
* *Precision ablations as fine as 100nm per shot (material dependent) for removing material layer-by-layer.*
* *High-definition, color imaging*
* *Micron level ablation accuracy for tight tolerances*
* *Flat, uniform, top-hat beam*







Air-cooled, robust, compact excimer laser

248 nm or 193 nm wavelengths

Mask-projection “flat” ablations

Zoom video microscope; on-axis viewing

Pneumatic rotary chuck with collets

Sub-micron resolution motion control

Integrated industrial PC

Auto-focus software

Fume extraction

Class 1, interlocked, safety enclosure

OPTIONS: Flat-work configuration
Automatic catheter feeder

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CLASS 1
Laser product