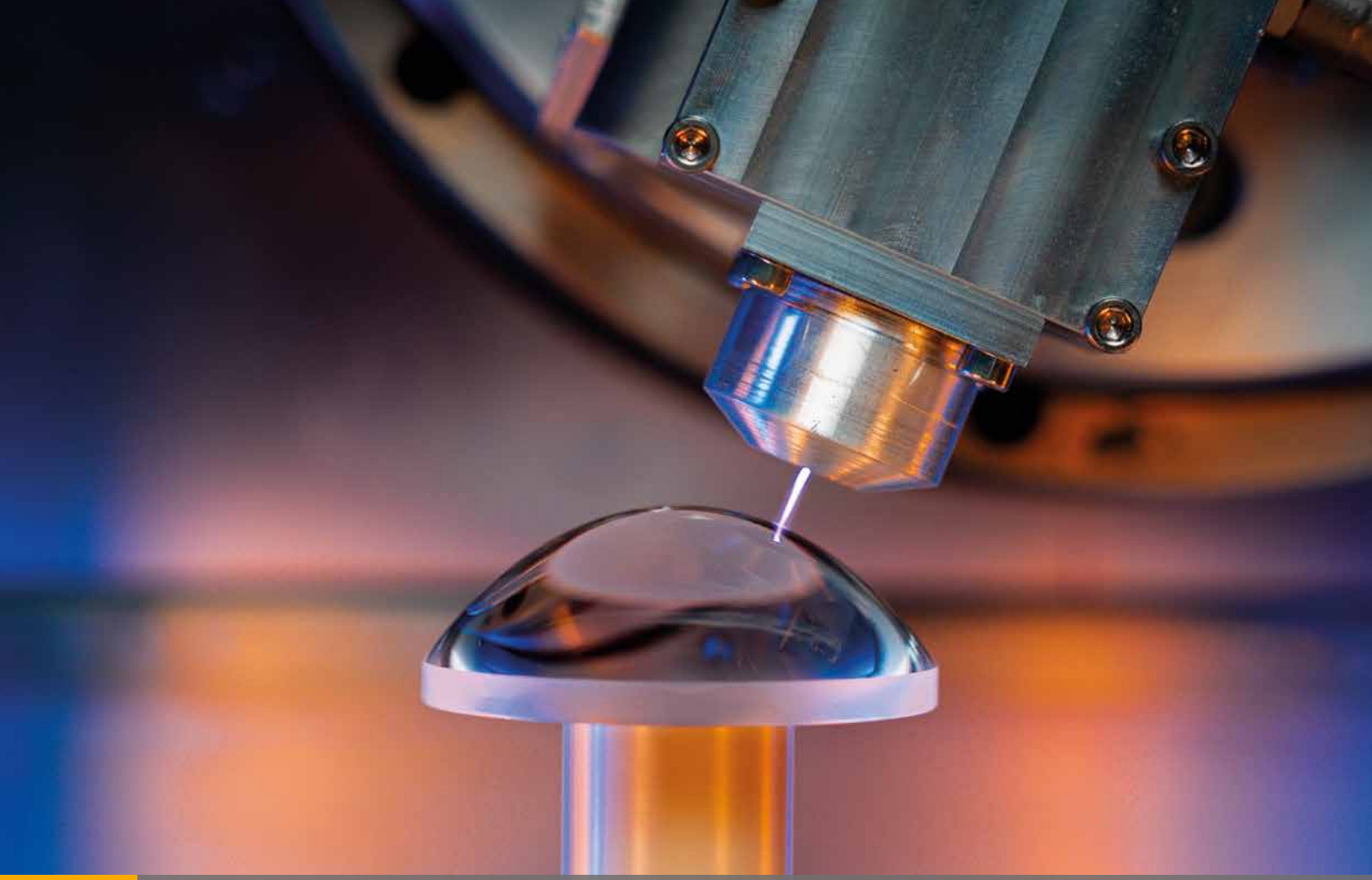


SPP-200

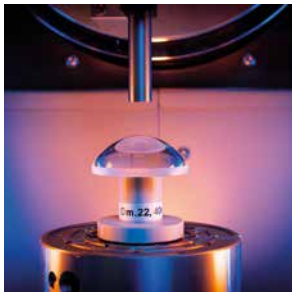
PLASMA-ENHANCED FIGURING TECHNOLOGY FOR ULTRA-PRECISION OPTICS

Optical Manufacturing Solutions.

satisloh®

Processes all optical surfaces with virtually no geometric limitations

Camera-based non-contact position calibration



Integrated contactless center thickness measuring

Ultrasonic cleaning with a Satisloh Hydra-sonic unit perfectly complements the manufacturing process

SPP-200

The SPP-200 expands Satisloh's portfolio with a proprietary finishing technology to achieve highest levels of uniformity and ultra-precise surface demands in optical manufacturing. The cutting-edge low temperature plasma jet operating under atmospheric pressure enables non-contact, chemical material removal without mechanical force on the lens.

TECHNICAL SPECIFICATIONS

Working range	Ø 10-300 mm (depending on surface geometry) Freeform surfaces, aspheres, cylinders, and classical optics
Dimensions (w x d x h)	1200 x 1850 x 1970 mm / 47.2 x 72.8 x 77.6 inches
Weight	3200 kg / 7055 lbs (approx.)
Energy requirements	400V at 50Hz/60Hz, up to 7,5 kVa
Compressed air	6 bar

FEATURES + BENEFITS

- Final deterministic corrections for components that require superior shape accuracy
- Deterministic material removal rate through controlled dwell time, reduces iterative processing
- Enabling small spot correction of mid-spatial frequency errors, processing area of 1-2 mm
- Operates at atmospheric pressure without applying mechanical force on the workpiece, preventing subsurface damage and micro-cracks
- Processes all optical shapes with virtually no geometric constraints and without complex tooling
- Dry and clean process with no polishing residue and minimal waste
- Reasonable cost of ownership due to low consumables cost and consumption
- Safe to use, equipped with active carbon filter, additional sensors, and improved air exchange rates
- Seamless integration with Satisloh ProACT, the powerful yet easy-to-use Software Suite for calculation, adjustment and correction of tasks, unlocks the SPP-200's full potential in fine correction
- Easy and convenient job setup via Satisloh guided user interface BaSyS

All technical data subject to change without notice. Verify details with Satisloh.

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