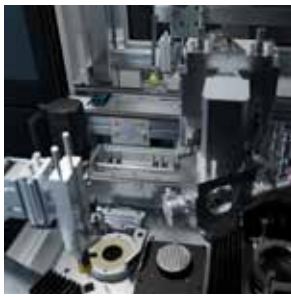


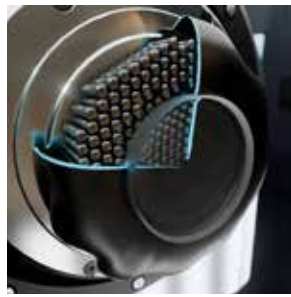


# NEO-ORBIT & NEO-FLEX

TRANSFORMING LENS SURFACING WITH SATISLOH'S  
NEW BLOCKLESS LINE



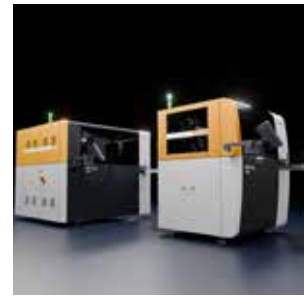
Integrated front-side mapping for exact back-curve calculation and precise lens power.



Innovative Pin Vacuum Reception, holds and supports the lens during generating process.



Automated cleaning of lens reception between cycles removes leftover polish.



Two-machine concept provides superior redundancy and flexibility.

## NEO-ORBIT & NEO-FLEX

Introducing Satisloh's first industrial blockless surfacing line, built on proven Satisloh technologies (ART, VFT-orbit-2i and Multi-FLEX-2) and engineered for mid to high-volume labs. Through process step elimination and consolidation, it reduces machine requirements from 7 machines down to 2, with a total processing time of just 7 minutes per pair of lenses. **NEO-orbit:** Imaging, front curve mapping, positioning, cribbing, milling, turning and engraving. **NEO-flex:** Positioning, polishing, cleaning and drying.

## TRANSFORMING THE SURFACING PROCESS IN YOUR LAB

- **Streamlined workflow & fast turnaround time:** Eliminates blocking, taping, cooling, and deblocking, producing **up to 80 lenses per hour** with a simplified 2 machine line. No re-routing jobs due to lens compatibility issues, as it supports almost all lens styles, powers and materials.
- **Eliminates consumables:** Removes costly consumables like **tape, alloy, wax, glue and block pieces**, significantly reducing consumables expenses.
- **Lower operational costs:** Fewer machines and conveyors mean **lower labor and maintenance costs** with fewer calibrations and micro-stops.
- **Smaller footprint, more capacity:** Requires just **56 m<sup>2</sup> (600 sqft)** for 80 Jobs per hour, **60% less lab space** than traditional alloy-based lines, freeing up room for more production capacity.
- **Energy-efficient & reduced waste:** By utilizing fewer machines and processes, NEO blockless surfacing line reduces energy consumption and **eliminates waste** and disposal costs associated with alloy, glue, wax or tape, contributing to a **more environmentally friendly lens production** process.
- **Lens compatibility:** Processes over **99% of lenses** (styles, powers and materials), front curves up to 15D & back curves up to 18D and rotationally symmetric and non-rotationally symmetric surfaces. It handles lenses from **50-80 mm diameter** and prisms up to 10°.
- **High precision and reliability:** Built on proven **VFT-orbit-2i, Multi-FLEX-2**, and **ART** technologies, ensuring industrial-grade reliability, consistent quality and reliable performance.
- **Real-time quality control and auto-calibration:** Integrated blank front side mapping, back curve recalculation and tool auto-calibration, delivers exceptional accuracy, minimizes errors, and ensures consistent lens quality.

## TECHNICAL SPECIFICATIONS

NEO-orbit & NEO-flex - Blockless Surfacing Line	
Productivity	Up to 80 lenses / hour
Front curve	Up to 15D, rotationally and non- rotationally symmetric front surfaces → Spheric and Aspheric Single Vision, Bifocals, Front side & Back side progressive lenses
Back curve	Up to 18D
Prism	Up to 10°
Diameter	50 mm- 80 mm / full support
Materials	All organic materials
Engraving	Integrated fiber laser or mechanical system



Learn more

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

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