



# METRO LAB

DIGITAL LENS PRODUCTION AT UNMATCHED SPEED, LOW INVESTMENT AND WITH THE FEWEST OPERATORS

## THE NEED FOR SPEED

Digitization, online, and hybrid shops rapidly change how business is done. Consumers expect same or next day delivery of premium products at highest quality. Satisloh's Metro Lab is a fast, yet low investment, lens production platform that allows labs to produce top quality digital lenses with AR coating close to the consumer for fastest service.

## A STABLE SYSTEM

Metro Lab provides unsurpassed production stability for small spaces. Perfectly matched machines and processes as well as full compatibility with leading lab management and lens design software packages, ensure smooth production. And it's easy to operate and maintain.

## GROW AS YOU GO

The modular concept provides complete freedom for lab expansion as volume grows. Efficient processes mean low personnel requirements. Metro Lab enables fast return of investment and high business profitability.



Combine Metro Lab and Express-AR for fastest service



40 lenses/h x 20 hours means 400 jobs/day with 3-4 people per shift in a 50.2 m<sup>2</sup>(540 ft<sup>2</sup>) space

## METRO LAB

The standard Metro Lab concept is based on Satisloh's ART technology and single sided AR coating for maximum speed and coating process quality. Metro Lab allows labs to offer 3 to 5 hour service, delivering digitally surfaced lenses with hard and AR coating to their customers.

- ART Technology (Alloy Replacement Technology)**  
 With ART Satisloh offers an environmentally-friendly alternative to traditional alloy blocking. ART utilizes a universal, reusable plastic block piece and a fast UV-curable adhesive, that eliminates cooling time after blocking. Using this synthetic material combination eliminates hazardous substances like heavy metals and their discharge into the water cycle, helping protect both environment and staff.
- EX AR (Express-AR)**  
 Satisloh's Express-AR concept starts with front side hard and AR coated blanks. Only the back side is coated in the local lab. Lenses stay on the ART block during the coating process which protects the front side coating and means easy handling and fewer lens touches. Express AR cuts the time for hard and AR coating from 3-8 hours to 60-90 minutes.

## WHAT'S IN A METRO LAB ?

- Blocking**  
 Environmentally safe Alloy Replacement Technology (ART) with ART-Blocker-M.
- Generating**  
 VFT fast tool with patented voice coil technology for ultimate surface accuracy and smoothness. Choose between VFT-macro-E at 25 lenses/hour and VFT-macro at 50 lenses/hour throughput.
- Polishing**  
 The Toro-FLEX polishing system with long lasting flexible polishing tools assures highest form accuracy.
- Hard coating & cleaning**  
 Magna-Spin with one solvent based universal spin coating suits all lens materials; provides superior scratch resistance. The external cleaning system, Hydra-EX<sub>AR</sub>-2 prepares the lens back-side for immediate Hard coating.
- AR coating**  
 Compact MC-280-X box coater provides the same quality and flexibility as Satisloh's large coaters, but in a small footprint.
- Finishing**  
 Various options are available in Satisloh's table top line-up, including the new ES-shape edger that features industrial edging capability at table top size.



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