



Multi-FLEX-M

NEXT GENERATION MANUAL LENS POLISHING

Multi-FLEX-M

SINGLE TOOL MANUAL POLISHING

The Satisloh® Multi-FLEX-M is a manual, soft-tool polisher, following in the footsteps of the successful Toro-FLEX. Using Satisloh's Universal Tool Technology and the same excellent polishing kinematics as its big automated brother, the Multi-FLEX-2, it draws on technologies proven in over 650 installations worldwide.

An advancement for manual lens polishing, the compact, dual-spindle Multi-FLEX-M produces up to 50 lenses/hour. With dynamic kinematics, individually calculated for each job, and the 1-step Evolution-U process it offers the widest working range of up to -18 dpt. and maintains the highest quality standards.

Using the **patented Universal Tool** that covers all lens designs and reduces the number of tools required to just 1 means fewer tool changes and a smaller polishing tool inventory. With an outstanding tool performance of up to 25,000 seconds for an extremely low cost/lens.

An integrated RFID tag automatically tracks tool use, improves efficiency, and reduces operator errors.

MES-360 Lite for basic data analysis and pre-configured KPI report (PDF) comes with the machine. Upgrading to the full MES-360 program means users can trace lens quality to polishing tool used and track breakage back to tool manufacturing batches.

Partner the **Multi-FLEX-M** with the **VFT-macro** digital generator for a perfect surfacing pair at 50 lenses/hour.





Same proven kinematics as Multi-FLEX-2 ensure best polishing results and faster polishing cycles



Compact footprint with polish tank conveniently fits inside the machine



Automatic job data entry via barcode scanner



Ergonomic machine design, easily accessible for maintenance

FEATURES + BENEFITS

Universal Tool Technology

- Only 1 tool geometry needed for all standard organic materials, lens designs, and working ranges
- Smaller, simplified tool inventory
- Intelligent Tools: embedded RFID tag scanned at tool exchange, automatically tracks tool usage
- Lowest cost/lens with best tool lifetime performance (up to 25,000 seconds)

1-step Evolution-U Process

- Faster polishing cycles
- Exceptionally wide process range: base curve up to -18 dpt.

Integrated Industrial PC

- Easily integrates with current IT infrastructure
- No additional polishing server needed
- Backup, diagnosis & remote support functionalities
- Easy to use Windows 10 user interface with touchscreen

Software-controlled cleaning cycle and additional in-chamber bellow cleaning nozzles ensure machine is always clean and ready for use

Convenient lens washing basin with water jet and compressed air gun prevent polishing slurry from drying on lenses





Industrial Windows 10 PC with backup-functionality and user-friendly interface easily integrates into the lab's IT infrastructure

TECHNICAL SPECIFICATIONS

Productivity	Up to 50 lenses/hour
Working Range	Concave: 0 to -18 dpt. Lens diameter: 48-85 mm Cylinder: 0 to 6 dpt.
Lens Material	All organic lens materials
Dimensions (wxdxh)	1256 x 803 x 2142 mm / 50 x 32 x 85 inches + signal lamp
Weight	420 kg / 926 lbs (incl. polishing supply unit)
Energy Requirements	200-240V; 50/60 Hz; 2,5kVA; max. 10kVA; 1 phase + neutral + ground; Fuse 16A
Compressed air	8 bar, dried, oil-free, approx. 20 l/min

PROCESSES AND TOOLS

Process & Characteristics	Steps	Throughput	Working range	Tool
Evolution-U For lenses that will be hard coated Knife-Edge lenses capability	1-Step	≈ up to 50+ lenses/hour	0 - -18 dpt. (incl. up to cyl 6 dpt.) Ø 48-85 mm	Universal Extended Range FLEX

Multi-FLEX polishing machines include a free-of-charge license to use the Evolution-U process and other specialty polishing processes provided by Satisloh under the condition that customer is buying and using original polishing tools from Satisloh. Alternatively, customer may purchase a royalty-bearing license (one-time fee per machine) to use these Satisloh polishing processes with third party tools, which are not infringing Satisloh's IP rights.

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

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