



GENERATING

SUPERIOR DIGITAL GENERATING FOR ALL LAB SIZES

GENERATING

Satisloh's VFT generators are packed with unique technologies for unparalleled accuracy and speed. While various models with different footprints and throughputs are available for varying production requirements, key features are shared across the product family. The VFT line uses Satisloh's proprietary fast tool with patented voice coil technology for the turning process. The tool's low mass combined with high speed control systems provides maximum speed as well as unprecedented form accuracy and surface smoothness. Its air bearings provide friction-free operation, further contributing to tightest tolerances and ensuring the fast tool's longevity.

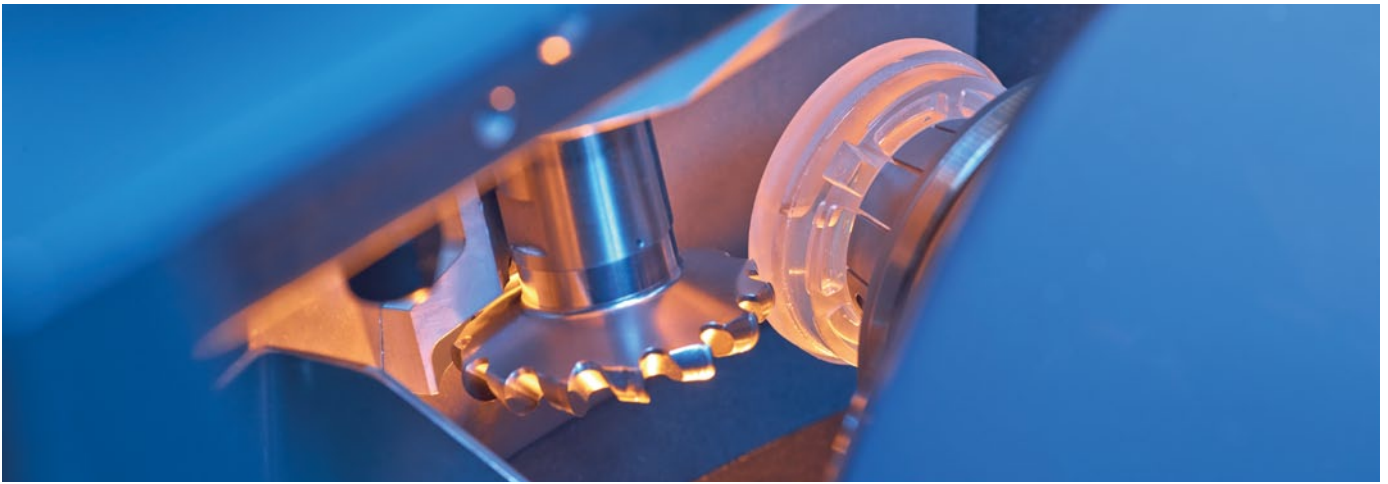
VFT generators' high torque motors and robust bases are additional features that guarantee consistent and precise results with all lens materials.

Tool and axes auto-calibration safeguard superior lens quality, even with less experienced operators.

Satisloh generators cover all production processes, including cribbing blanks to the final lens diameter, milling and turning even the most complex designs, and mechanical engraving semi-visible marks.

The latest Satisloh generators feature technology to generate an overlay of two surfaces on the lens. Special geometries for different applications can be added to the prescription surface of the lens and machined in one cutting process using this feature.





VFT-ORBIT 2

Features + Benefits:

VFT-orbit 2 is the world's fastest, most robust and easiest to service lens generator. Satisloh's high volume flagship raises the bar set by the original VFT-orbit, featuring greatly improved performance, throughput, quality and reliability.

- New ultra-fast milling spindle for cribbing and rough surfacing increases throughput by up to 30%
- Proprietary milling tool interface for 14-tooth cutter enables 60% higher revolution speed. It also guarantees unsurpassed accuracy and stiffness, reduced run-out, and extended tool life
- VFT fast tool for ultimate surface accuracy and smoothness enables short "cut-to-polish" processes
- Auto-calibration eliminates manual adjustments and saves time
- Integrated topography measurement validates lens after surfacing
- The redesigned working chamber declines slightly toward the back for easy process waste discharge and is LED-illuminated for better visibility
- Improved base design offers the choice of left or right drainage and better access to utility connections

- Latest generation B-axis is extremely robust. The electrical plug-in system makes maintenance easy, improved air bearings reduce air consumption up to 30%, and up to 100,000 surfaces can be processed before labyrinth cleaning
- Power-save mode: air bearings automatically turn off when machine is idle, for up to 30% energy savings

Options:

- A second fast tool provides full flexibility to utilize a different turning tip for other materials or process applications
- Through Tool Cooling- patented Satisloh technology provides highest surface accuracy and extended tool life due to cooling at the cutting point
- Mechanical engraving
- Intelligent bypass Loader Upgrade

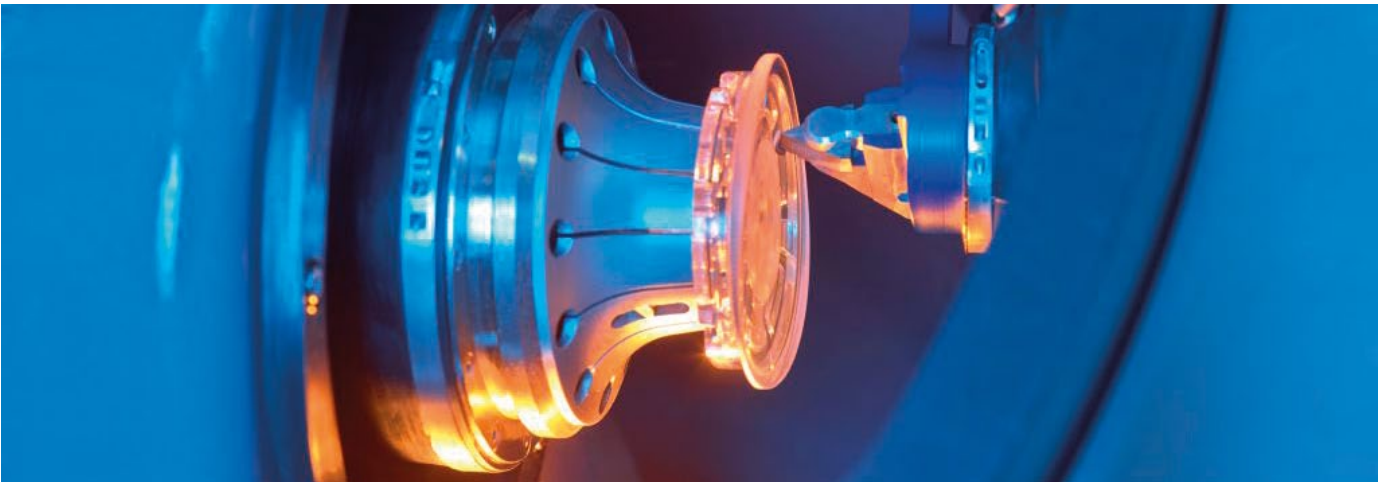


Lab 4.0 ready

Productivity	Up to 100 lenses/hour
Working Range	Concave: milling: -14.5 dpt, turning: up to -30 dpt Convex: milling and turning: +30 dpt Materials: All organic materials
Dimensions (wxdxh)	1771 x 1624 x 1736 mm / 70 x 64 x 68 in
Weight	Weight 2200 kg / 4850 lb

For detailed technical specifications, scan the QR code or go to: www.satisloh.com/techspecs





VFT-ORBIT 2E

Features + Benefits:

The VFT-orbit 2E is the new economically priced lens generator based on the proven VFT-orbit 2 technology. The machine is capable of generating all lens formats including free form surfaces.

VFT-orbit 2E is available in a manual and an automated version.

- VFT fast tool ensuring surface accuracy and smoothness enabling “cut-to-polish” process
- Semi automated working chamber door for fast manual operation
- Power-save mode: air bearings automatically turn off when machine is idle, for up to 20% energy savings
- Easy access for service and maintenance
- Extremely robust
- Auto-calibration eliminates manual adjustments and saves time
- Can be upgraded on site to the full VFT-orbit 2

Options:

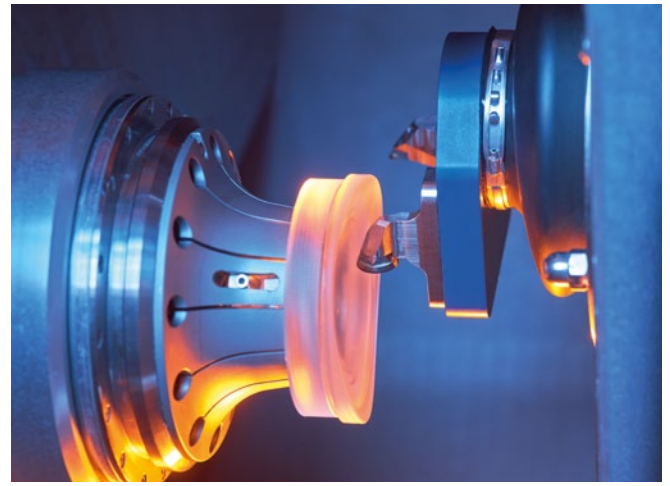
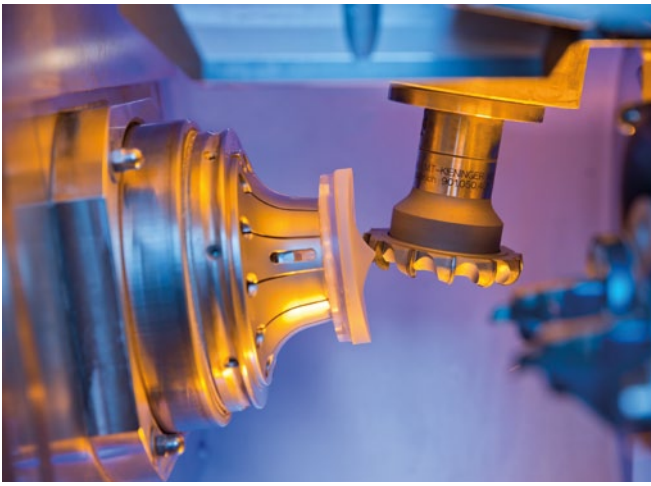
- A second fast tool provides full flexibility to utilize a different turning tip for other materials or process applications
- Integrated topography measurement for lens validation after surfacing
- Mechanical engraving
- Single track loading system and intelligent bypass loader upgrade



Productivity	Up to 70 lenses/hour
Working Range	Concave: milling: -14.5 dpt, turning: up to -30 dpt Convex: milling and turning: +30 dpt Materials: All organic materials
Dimensions (wxdxh)	1771 x 1624 x 1736 mm / 70 x 64 x 68 in
Weight	Weight 2200 kg / 4850 lb

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VFT-MACRO

Features + Benefits:

Manual compact generator meeting all requirements for high quality digital lens production while setting the standard for cost efficiency. VFT-macro's versatility makes it a good fit for any lab: as primary surfacing unit for lower volume operations or as a back-up generator for fully-automated labs. The combination of small footprint and low weight with high throughput and reliability characterizes this generator.

- Reliable, quick and precise system that is easy to set up
- Symmetrical barrel-shaped working chamber eliminates calibration changes due to thermal expansion providing unmatched stability – virtually no adjustments needed during production
- Full surface milling and beveling. The multi-tooth cutter generates the lens in a single action: cribbing, beveling and back-side milling
- VFT fast tool for ultimate surface accuracy and smoothness enabling short “cut-to-polish” processes
- Auto-calibration of tools and axes eliminates manual center point adjustments. Combined with the inclined axes arrangement, it ensures accurate and repeatable results, avoiding breakage and production losses

VFT-MACRO-E

Features + Benefits:

An economically priced, manual load generator based on the VFT-macro, it features proven VFT technology and meets all requirements for high quality digital lens production. The VFT-macro-E provides outstanding value and is the perfect machine for entering the world of digital generating.

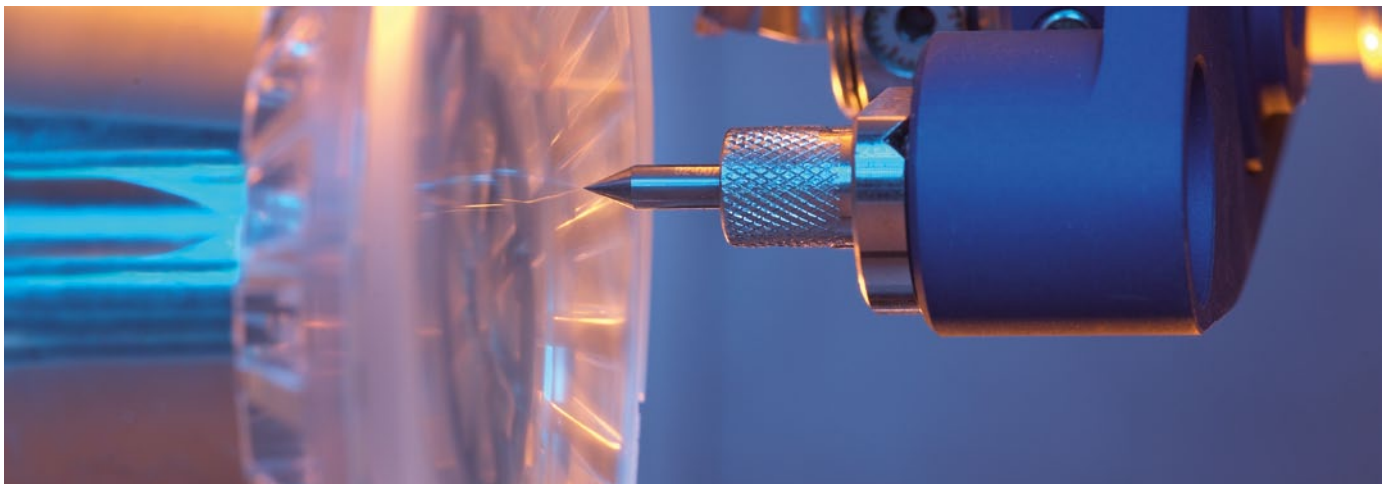
- VFT fast tool for ultimate surface accuracy and smoothness enables short “cut-to-polish” processes
- No milling spindle; large R6 PCD cutter for pre-cut and cribbing
- Uniform production quality and yield with inherently stable working chamber design
- With a capacity of up to 25 lenses per hour, it's the perfect solution for small labs
- Green power-save mode: air bearings automatically turn off when machine is idle



Productivity	VFT-macro: Up to 50 lenses/hour VFT-macro-E: up to 25 lenses/hour
Working Range	Concave: up to -14.5 dpt
Dimensions (wxdxh)	1100 x 1200 x 1500 mm / 43 x 47 x 59 in
Weight	<800 kg / 1,764 lbs
Lens materials	All organic materials

For detailed technical specifications, scan the QR code or go to: www.satisloh.com/techspecs





FEATURES + OPTIONS OVERVIEW

	VFT-macro-M	VFT-macro-E	VFT-macro	VFT-orbit 2E	VFT-orbit 2
Fast-Tool 1 with holder	-	X	X	X	X
MES-360 compatible	X	X	X	X	X
Lab 4.0 ready	-	-	-	-	X
Autocalibration	-	X	X	X	X
Corrosion resistant chamber	X	X	X	X	X
Integr. Topography Measurement	-	-	-	O	X
A-axis water protection	-	-	-	O	X
Performance Pack „Speed“	-	-	-	-	X
Automation (Single Track Loader)	-	-	-	O	X
Through Tool Cooling	-	-	-	-	O
Mechanical Engraving	-	O	O	O	O
Fasttool 2 with holder	-	-	-	O	O
All Format Software	-	O	O	O	O
Intelligent Bypass Loader Upgrade	-	-	-	O	O
Upgrade to full version	O	O	-	O	-
Technical Data					
B-Axis version	V7			V7	V10
Power	6 kVA			8 kVA	
Frequency	50/60 Hz			50/60 Hz	
Voltage	208/400V, 3 phases			208/400V, 3 phases	
Working chamber material	Aluminum			Mineral cast and aluminum	
Milling spindle	12000 rpm	-	12000 rpm	24000 rpm	35000 rpm
Throughput	Org. ~50 / Min. ~25	~25	~50	~70	~100

x Standard feature o optional - not available

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