



VFT-ORBIT-2

WORLD'S FASTEST & VERSATILE DIGITAL LENS GENERATOR

VFT-orbit-2

ROBUST, RELIABLE & EASIEST TO SERVICE

VFT-orbit-2 is the world's fastest, most robust & easiest to service digital lens generator, featuring greatly improved performance, throughput, quality and reliability. It covers 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.

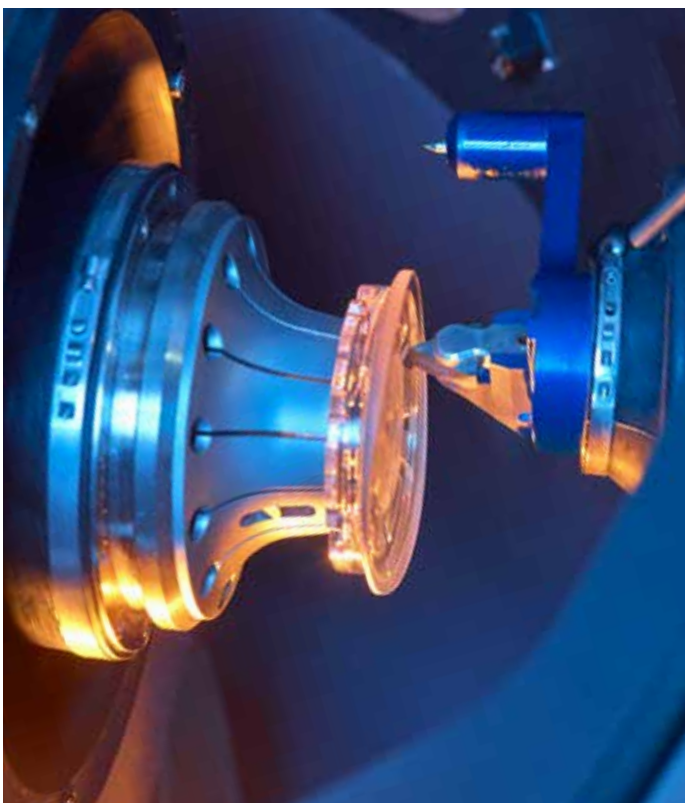
The VFT line uses Satisloh's proprietary fast tool with patented voice coil technology for the turning process. The tool's low mass combined with high speed control systems provides maximum speed as well as unprecedented form accuracy and surface smoothness. Its air bearings provide friction-free operation, further contributing to tightest tolerances and ensuring the fast tool's longevity.

VFT-orbit-2 generators can be upgraded with Performance Package to boost production speed, enhanced intelligence and extended working range.

The system requires a coolant management systems to guarantee optimal machine lubrication, increased speeds, as well as a safe, clean working environment for continuous, around-the-clock production of all lens format.

Combine VFT-orbit-2 digital lens generator with performance package and Multi-FLEX-2 using the Top Speed polishing process for the fastest and most productive lens-surfacing duo available.

VFT-orbit-2 and Multi-FLEX-2 are perfectly matched for maximum performance and speed





Fast milling process with 35,000 RPM, cribbing, chamfering and milling in less than 10 seconds.



Fully automated axis & tool calibration integrated.



Through Tool Cooling cools down cutting point of the tool.



Orbital alignment of tool axes with robust work-piece spindle (B-axis).

FEATURES + BENEFITS

- **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.
- Base design with left or right drainage choice 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***.
- **MES-360 Lite** included, provides daily reports using pre-established KPI to track machine utilization, production throughput, and top five errors. Upgrade to full MES-360 system as lab needs grow.

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.
- **Performance Package**
 - Increases throughput by 10-20% depending on material mix.
 - New intelligent tool concept with RFID technology for fully automated, condition-based calibration.
 - New temperature and flow control sensors for faster feedback loop and increased consistency.



Lab 4.0 ready

* Compared to VFT-orbit.

TECHNICAL SPECIFICATIONS

Productivity	Up to 100 lenses/hour up to 20% faster with performance package, dependent on material mix
Working Range	Concave: milling: -14.5 dpt, turning: up to -30 dpt Convex: milling and turning: +30 dpt
Lens Materials	All organic materials
Dimensions (wxdxh)	1771 x 1624 x 1736 mm 70 x 64 x 68 inches
Weight	2200 kg / 4850 lb
Energy requirements	8 kVA with a frequency of 50/60 Hz & 208/400V, 3 phases

FEATURES + OPTIONS OVERVIEW

	VFT-orbit-2E	VFT-orbit-2
Fast-tool 1	x	x
MES-360 Compatible	x	x
Lab 4.0 ready	-	x
Auto-calibration	x	x
Corrosion resistant chamber	x	x
Topography measurement integrated	o	x
A-axis water protection	o	x
Performance Package	-	o
Automation (single Track loader)	o	x
Thorough Tool Cooling	o	o
Mechanical Engraving	o	o
Fast-Tool 2	o	o
All Format Software	o	o
Upgrade to full version	o	-
Milling spindle	24,000 rpm	35,000 rpm
Throughput	Up to 70 lenses / hour	Up to 100 lenses/hour add up to 20% more productivity with Performance Package

x Standard feature

o optional

- not available

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

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