



VFT-orbit-2i

THE INDUSTRY'S FIRST INTELLIGENT GENERATOR

VFT-orbit-2i

TRULY SMART GENERATING

Next generation VFT technology is here! Building on the VFT-orbit's proven platform as the world's most reliable and widely installed generator, VFT-orbit-2i incorporates Artificial Intelligence and Machine Learning technologies for streamlined diagnostics and predictive maintenance.

VFT-orbit-2i leverages a wealth of diagnostic data that is accumulated during machine burn-in as reference point during operation. This enables the use of performance analytics to seamlessly identify any potential issues, thereby ensuring that the machine consistently performs with unparalleled precision.

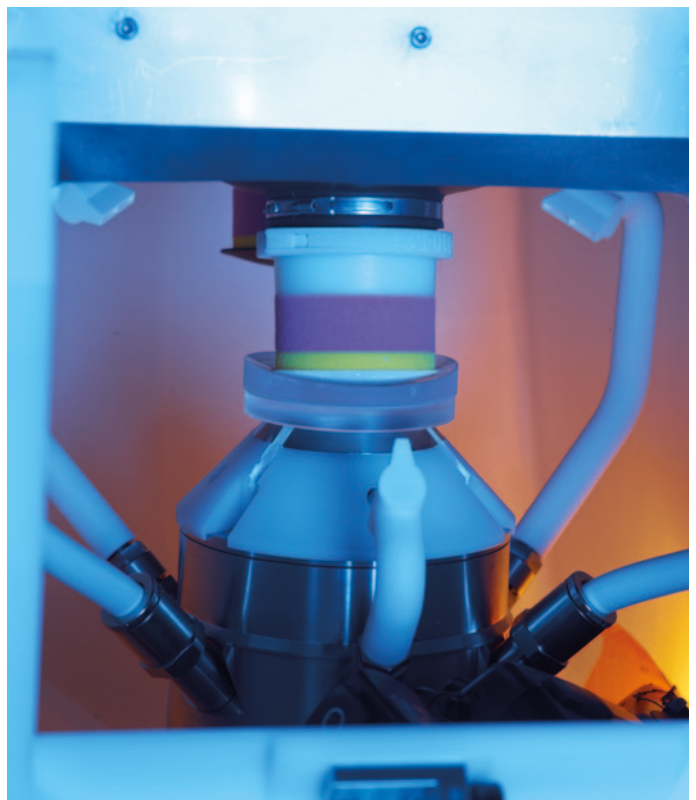
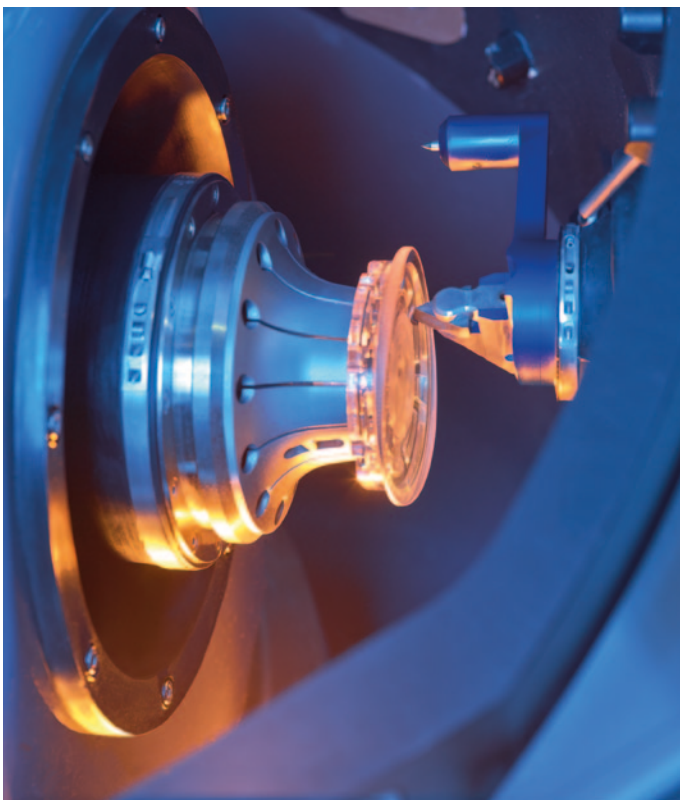
An expanded internal Ethernet fieldbus network gives access to simplified, detailed data logging while the B&R SiteManager provides secure and protected web access to all of the generator's electrical drive systems for remote troubleshooting.

VFT-orbit-2i features breakthrough B-axis intel-

ligence, enabling predictive maintenance. Because it monitors pressure within the B-axis and airflow through the B-axis labyrinth, it detects potential anomalies before issues can occur, ensuring the axis movement remains optimal. With a robust milling spindle that ensures consistent feed rates and precise, reliable lens production (up to 120 lph with Performance Package), it sets new standards for efficiency and productivity.

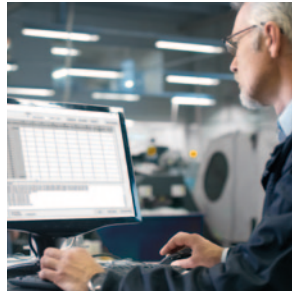
For the fastest and most productive lens-surfacing duo available, combine VFT-orbit-2i + Performance Package with Multi-FLEX-2 + Top Speed polishing process.

VFT-orbit2i and Multi-FLEX-2 are perfectly matched for maximum performance and speed

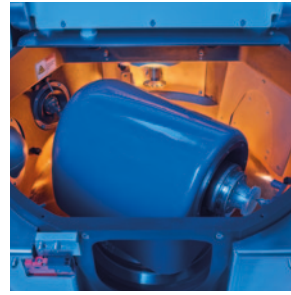




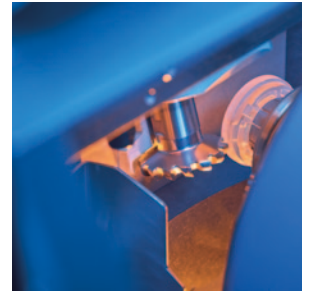
Enhanced diagnostics and faster issue resolution with new software and data monitoring capabilities



Easy remote troubleshooting and support with B&R SiteManager and newest controller technology



Smart B-axis enables predictive maintenance and prevents axis damage through alert system



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

FEATURES + BENEFITS

- Diagnostic data saved for each axis during machine burn-in serves as reference during operation, allowing the comparison between actual and target performance and the use of predictive analytics to identify issues before problems occur.
- Expansion of internal Ethernet fieldbus network for simplified and detailed data logging.
- Newest controller technology for easier remote support and troubleshooting. B&R SiteManager provides secured web access to electrical drive systems for remote troubleshooting.
- Smart B-axis enables predictive maintenance – keeping generator in optimal condition for highest quality surfaces.
- Sophisticated sensor tracks B-axis pressure and airflow through the B-axis labyrinth, detecting potential issues and preventing axis damage.
- Stronger and even more robust – the new milling spindle eliminates any compromises on feed rates during processing.
- Productivity: up to 120 lenses per hour (using Performance Package).
- 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 your lab needs grow.
- Fast tool with voice-coil technology for unsurpassed surface accuracy in the turning process
- Auto-calibration: automated tool- and axes-calibration for milling and turning.
- Power-safe mode: automatic savings when machine is idle.

OPTIONS

- A **2nd 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**
- **Performance Package**
 - Increases throughput by 10-20% depending on material mix.
 - Intelligent tool concept with RFID technology for fully automated, condition-based calibration.
 - Temperature and flow control sensors for faster feedback loop and increased consistency.



Lab 4.0 ready

TECHNICAL SPECIFICATIONS

Productivity	Up to 100 lenses/hour (with Performance Package up to 120 lenses/hour)
Working Range	Concave: milling: -14.5 dpt, turning: up to -30 dpt Convex: milling and turning: +30 dpt
Lens Material	All organic lens materials
Dimensions (wxdxh)	1.270 x 1.501 x 1.832 mm 50 x 60 x 72 in
Weight	2200 kg / 4850 lbs

FEATURES + OPTIONS OVERVIEW

	VFT-orbit-2E	VFT-orbit-2i
Fast-Tool	x	x
2 nd Fast-Tool	o	o
Smart B-axis	-	x
Axes diagnostics	-	x
MES-360 compatible	x	x
MES-360 Lite	x	x
Lab 4.0 ready	-	x
Auto-calibration	x	x
Topography measurement integrated	o	x
Performance Package	-	o
Automation (single track loader)	o	x
Through Tool Cooling	o	o
Mechanical Engraving	o	o
All Format Software	o	o
Upgrade to full version	o	-
Milling spindle	24,000 rpm	35,000 rpm
Throughput	Up to 75 lenses/hour	Up to 100 lenses/hour (with Performance Package up to 120 lenses/hour)

x Standard feature o optional - not available

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

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