



DEOM

SMARTSCOPE® M-SERIES

MULTISENSOR DIMENSIONAL
MEASURING SYSTEMS



SMARTSCOPE M-SERIES

The Next Evolution of the Worldwide Standard in 3D Multisensor Metrology Systems

On the cover, SmartScope® M45 with IntelliCentric™ -M Optics
and optional Scanning Probe.

Image to the right, SmartScope M7 with IntelliCentric-M Optics
and optional Scanning Probe and TTL Laser.





— Measure Faster and
— Easier than Ever
— with an
— Incredible Image.
— Here's how...
—

INTELLICENTRIC-M SERIES OPTICAL SYSTEMS

IntelliCentric-M Series Optical Systems feature at their core fixed lens optics and Virtual Zoom technology, making them inherently high-throughput measurement systems.

Featured in SmartScope M-Series, the patented* IntelliCentric-M optical system adds a high-density 20 MP digital metrology camera and a built-in electronic aperture, delivering an ultra-high-resolution image with low distortion – perfect for high-speed edge detection metrology.

20 MEGAPIXEL CAMERA

High-density digital metrology camera delivering an ultra-high definition image.

FIXED LENS OPTICAL SYSTEM

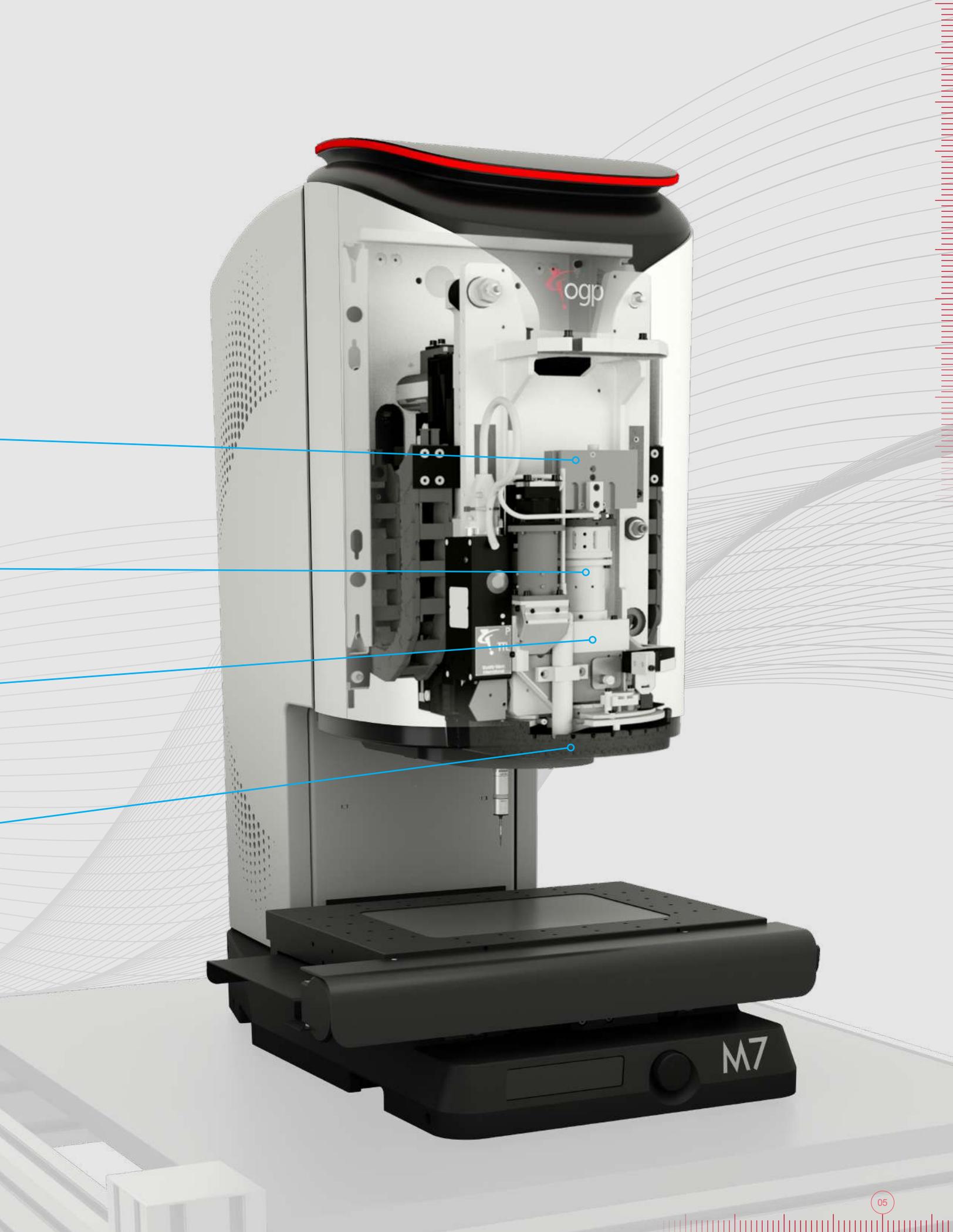
No moving parts allow for maximized uptime and a decreased need for calibration or repair versus a traditional mechanical zoom system.

BUILT-IN ELECTRONIC APERTURE

Allows for both wide field and high accuracy measurements throughout the same zoom range as a traditional mechanical zoom system, while requiring far less downtime for maintenance.

VIRTUAL ZOOM TECHNOLOGY

Instantaneous zoom provides instant magnification changes resulting in faster runtimes. Unlike digital zoom that only allows the user to see more, Virtual Zoom provides improved measurement resolution/performance as you zoom up.



ogp

M7

SMARTSCOPE M-SERIES

SmartScope® M-Series systems combine innovative advancements in optical technologies delivering an incredibly high-resolution image, providing you with exceptionally accurate measurement results – affording confidence to move at top speeds from line to line and part to part – for faster setups, shorter cycle times, and increased throughput.

EASE OF USE

SmartScope M-Series systems are incredibly robust metrology systems, while also being extremely easy to use.

Built-in programming efficiencies in ZONE3® make difficult programming simple, and inexperienced operators can easily acquire measurement data with programs and walk-up measurements initiated with just the click of a mouse.

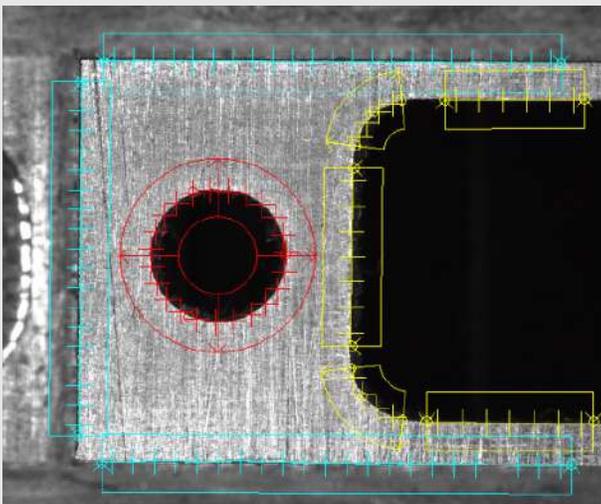
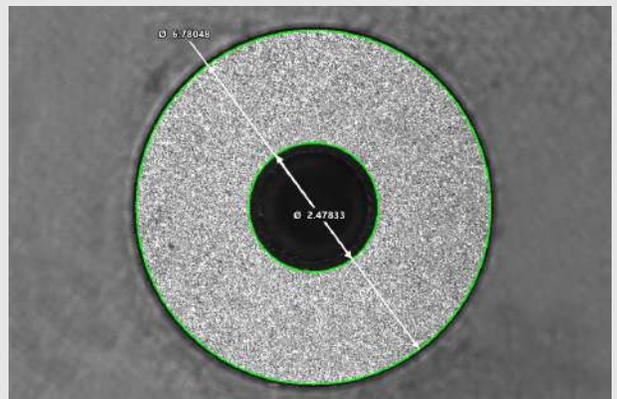
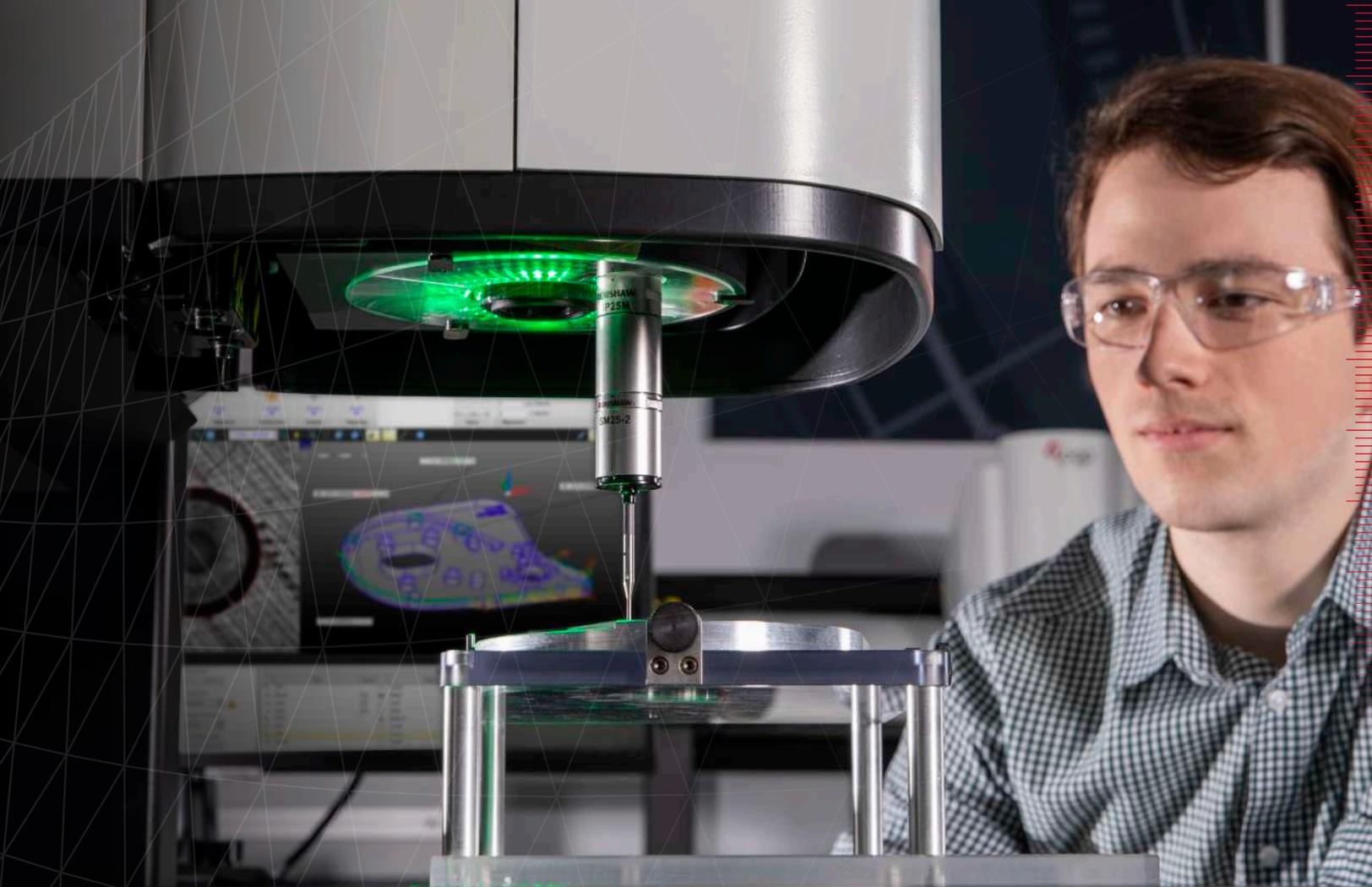


IMAGE ACCURACY

M-Series systems feature an all-new 20 MP camera – offering remarkable image quality and improved resolution.

At lower magnifications, users require less of a need to change magnification to measure smaller features which can be measured at the same time as much larger ones – allowing for higher resolution measurements in less time.



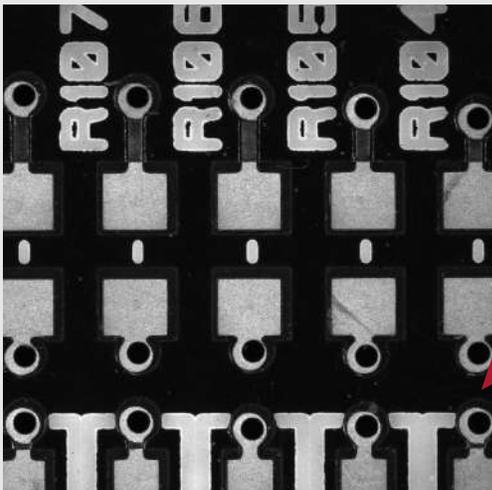


ADVANCED OPTICS

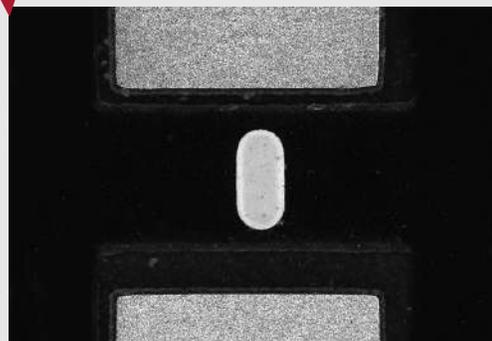
M-Series systems feature fixed lens, fully telecentric optics – allowing multiple features at different heights within the depth of field to be accurately measured at the same time.

The low distortion optics maximize the usable area of the stage by allowing features to be accurately measured anywhere in the field of view.

Low Magnification



High Magnification



Instant
Magnification
Changes

THROUGHPUT

Throughput advantages are found both on the hardware and software sides of M-Series systems.

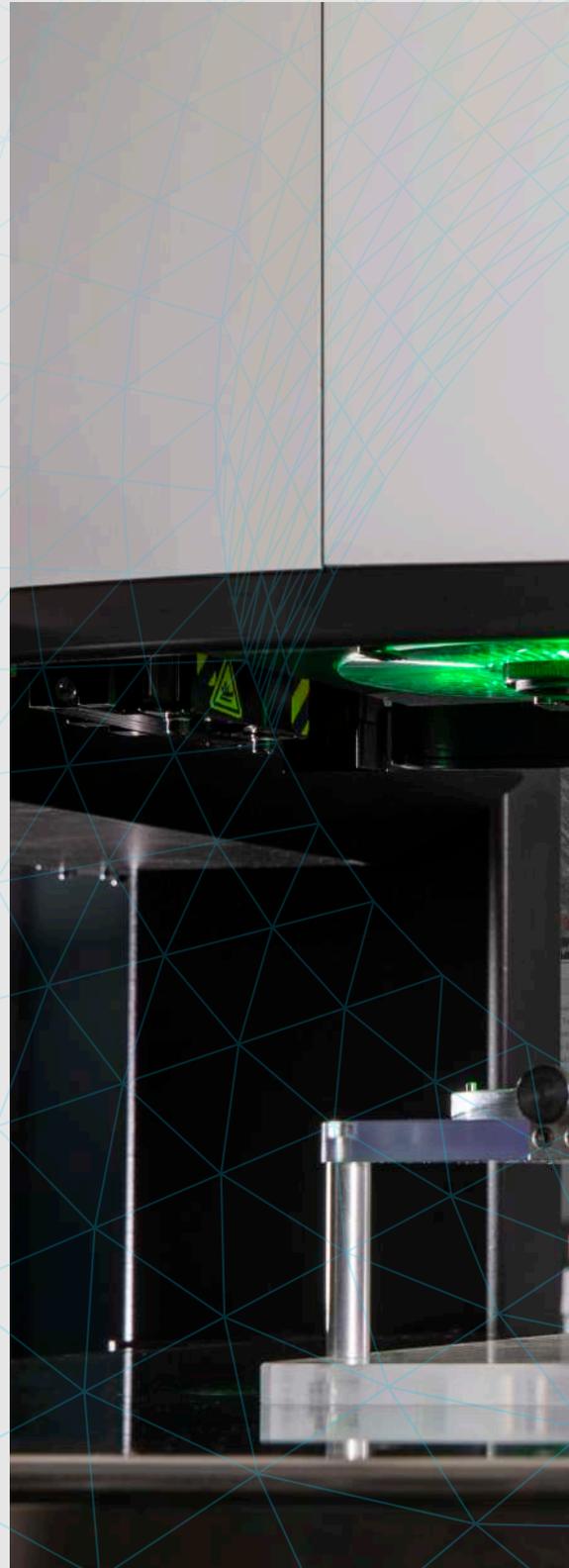
Instantaneous zoom provides instant magnification changes, resulting in faster runtimes. Unlike typical digital zoom, Virtual Zoom provides improved measurement resolution and performance as you move through the zoom range.

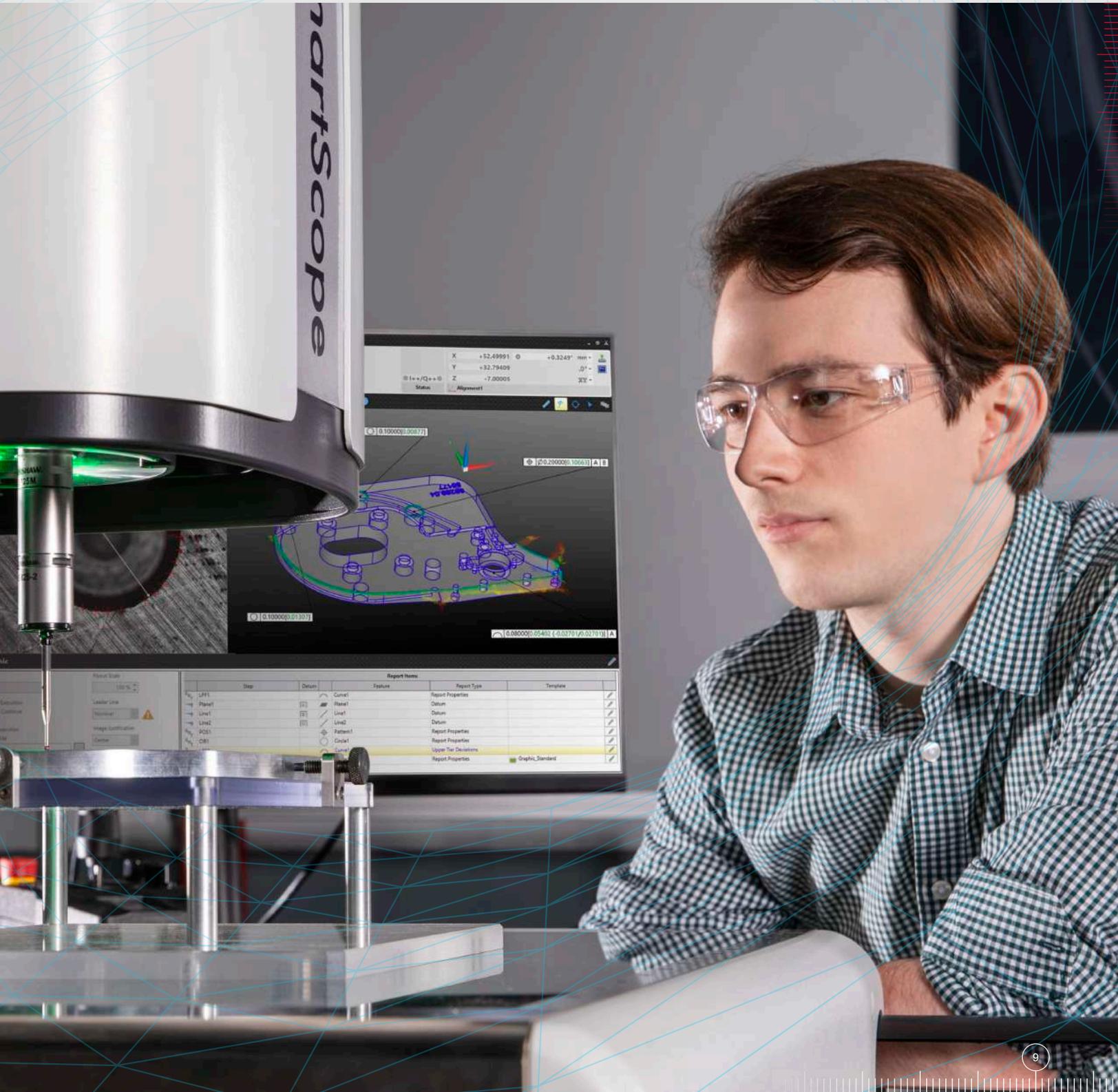
ZONE3 packs advanced features like unified sensor programming, Routine Optimization and Apply to Similar to make programming a breeze.

ZONE3 Metrology Software Makes Advanced Metrology So Easy

SMARTSCOPE M-SERIES SYSTEMS ARE POWERED BY ZONE3 METROLOGY SOFTWARE – THE WORLD’S MOST COMPREHENSIVE METROLOGY SOFTWARE.

- ZONE3 allows for 3D and CAD-based measurement using all sensors. Parallel Processing allows for all features of a part within the field of view to be measured simultaneously.
- Class-leading image processing algorithms result in lightning-fast, super accurate video metrology measurements.
- Walk-up measurements are achieved with just the click of a mouse.
- Daily operators can quickly launch pre-programmed routines.
- Advanced users can easily write detailed programs both at the machine or offline, while being assisted with features like Routine Optimization, Apply-to-Similar, and Auto Path Generation.
- All sensor types are programmed in the same way, making complex routine programming fast and easy – on the machine or offline.





PartScope

Step	Datum	Feature	Report Type	Template
LPF1		Curve1	Report Properties	
Plane1	[E]	Plane1	Datum	
Line1	[E]	Line1	Datum	
Line2	[E]	Line2	Datum	
PC1		Pattern1	Report Properties	
Cast1		Cast1	Report Properties	
Curve1		Curve1	Upper Tier Deviations	
			Report Properties	Graphic_Standard

SMARTSCOPE M-SERIES



SYSTEM CONFIGURATIONS

XYZ TRAVEL

	STANDARD	OPTIONAL
M7	250 x 150 x 200 mm	Extended X axis: 300 mm
M20	300 x 300 x 250 mm	–
M45	500 x 450 x 200 mm	Extended Y axis: 610 mm Extended Z axis: 300 mm
M50	450 x 600 x 200 mm	Extended Z axis: 300 or 400 mm



OPTICAL SENSORS/ACCESSORIES		TACTILE PROBES		LASER SENSORS	
Video Sensors		Feather Probe™		TeleStar® Probe	
Grid Projector		Scanning Probe		Rainbow Probe™	
Rotary Indexers		Touch Probe		Through-the-Lens (TTL) Laser	
				DRS™ Laser	

WANT TO LEARN MORE ABOUT OGP SYSTEMS?

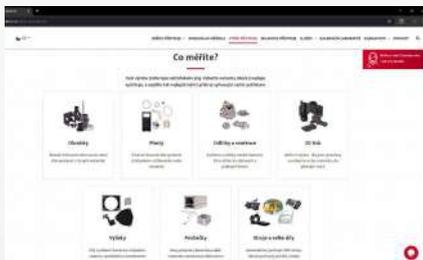
Visit our website and book a product demonstration today.



OFFICIAL REPRESENTATIVE

We are the sole official representative of the OGP brand for the Czech Republic and Slovakia and also the holder of accreditation according to ČSN EN ISO/IEC 17025:2018.

Contact us and secure expert service directly from our specialists.



ONLINE PRODUCT SELECTOR

This tool makes it easier for customers to choose the right measuring instrument, including models from OGP.

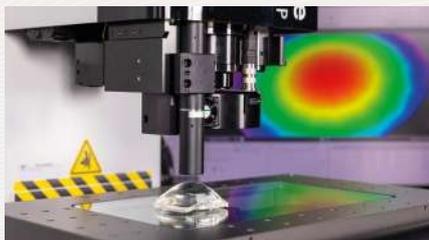
Simply enter the type of parts to be manufactured, their size and the required tolerance. Based on this information, the tool will recommend the most suitable measuring system.



SHOWROOM IN PRAGUE

Contact us to arrange a product demonstration. Our demonstration centre features several models, including advanced 2D and 3D multisensor systems with a wide range of sensors.

Come and see for yourself at Jinonická 804/80, Prague 5.



CUSTOM PART TESTING

Do you want to find out if the system meets your requirements? In addition to classic custom measurement, we offer free test measurements of your parts.

Contact us to discuss the details.



COMPANY HEADQUARTERS:

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