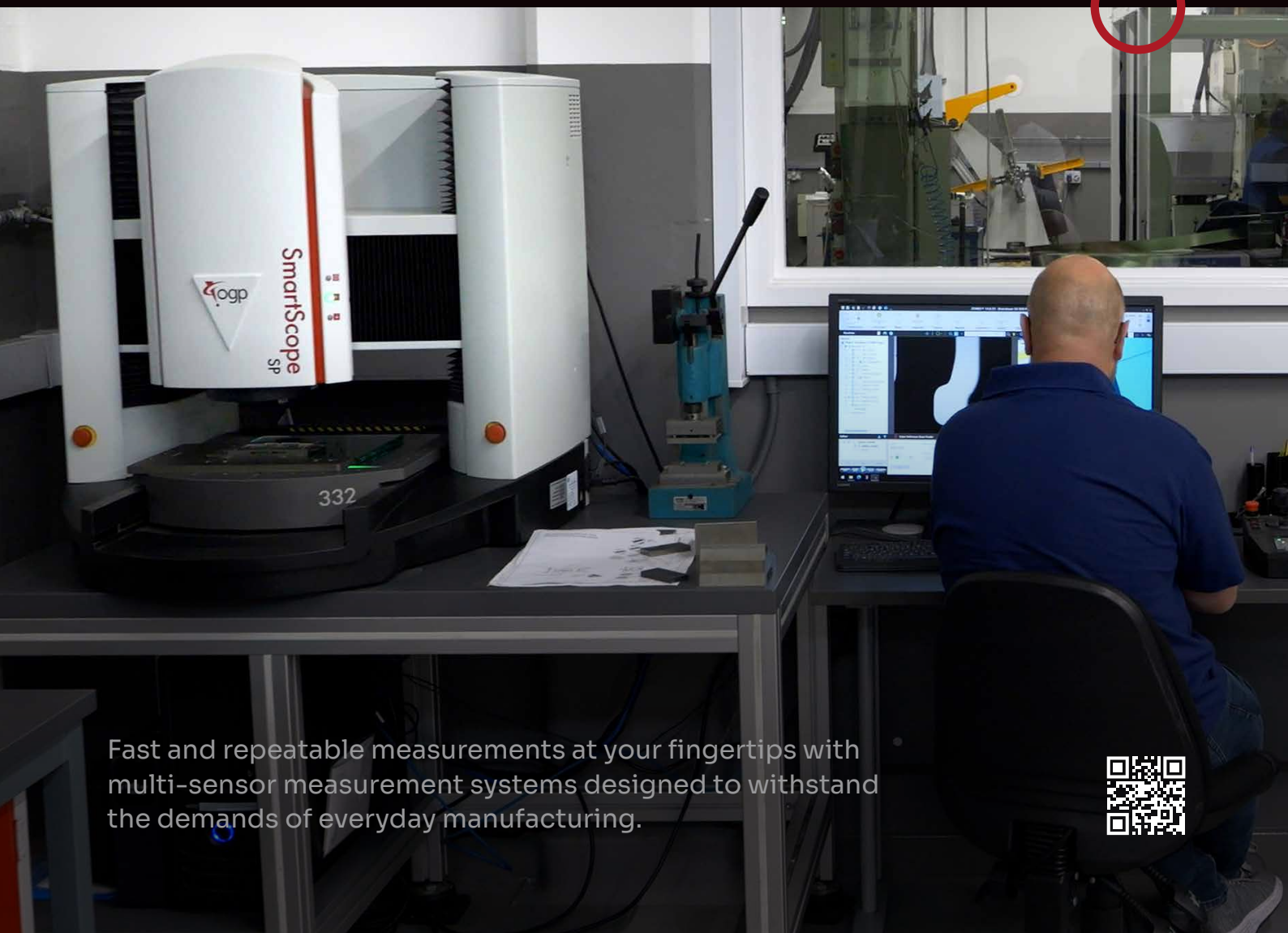
ogp UK

The ultimate multi-sensor metrology systems



Fast and repeatable measurements at your fingertips with multi-sensor measurement systems designed to withstand the demands of everyday manufacturing.

Powerful measurement

> “OGP systems make sure our parts are good, our measurements are repeatable but they also make sure our measurements are efficient. When you are controlling components to really tight tolerances, that repeatability is really important. I would encourage other businesses to throw a challenge they have out to OGP UK to respond to, the results will speak for themselves.”
>
> Rowan Crozier MBE, CEO, Brandauer

The way we manufacture has changed. **The way we measure is changing.**

Time is precious. There is not a manufacturer on the planet that wouldn’t welcome the ability to do things better and quicker with one simple solution.

Step forward multi-sensor measurement and the massive benefit of combining optics, probes, lasers and rotaries to produce speed and unbelievable, repeatable accuracy – the latter guaranteeing you will always get paid when using our machines.

Let’s take a part with 30 different features. Using technology from OGP UK you can inspect all the features in five minutes, compared to just 10 in one hour with traditional measurement systems.

This means using multi-sensor capability can make you 20 times quicker than coordinate measuring machines (CMMs) for example, which translates into reduced lead times and the capacity to take on lots more work for the manufacturer.

It has also been proven to eliminate reworks and bottlenecks that can sometimes occur when inaccurate measurements are taken, whilst subcontractors have been praising the flexibility it gives them.

Track record

OGP UK, which boasts an extensive demonstration centre in Derbyshire, has been on shopfloors in the UK and Ireland for more than 30 years.

In that time, we have built up a blue-chip customer base that spans aerospace, medical, automotive, rubber and plastics, injection moulding and renewables.

These sectors demand exacting tolerances and often have complex shapes and geometries to produce. This doesn’t faze us at OGP UK.

Our inspection programmes can be tailored to the part being measured and, having access to multiple sensors, means you can optimise the measurement process and have full flexibility when it comes to full-part inspection.

Data is also collected faster and captures dimensions, surface textures, shapes and textures, providing a complete picture of the component to accelerate the decision-making process.

We haven’t stopped there. The introduction of ZONE3 has taken performance to an even higher level, with the world’s most advanced metrology software using innovative features to automatically generate measurement routines, resulting in faster programming and run times than other software packages.

Streamline

Whether you are looking to streamline your inspection process or improve the quality of parts you are producing, OGP UK can provide the right solution.

We have three decades of unrivalled knowledge in how to maximise the productivity and reliability of your quality control processes, helping you save time whilst amplifying your inspection capabilities.

In short, why use numerous measuring machines when one OGP can deliver the speed and unrivalled performance that modern manufacturing now demands?

Will you invest in the ultimate multi-sensor metrology system?

The benefits of OGP UK **multi-sensor metrology systems**

Repeatable inspection

Combining data from multiple sensors allows for more accurate, reliable and repeatable part measurements. This repeatability helps to ensure that parts meet quality standards.

Speed of measurement

Using multiple sensors simultaneously or sequentially can reduce the time required for inspection, meaning data is collected faster and helps to accelerate the decision-making process.

Comprehensive measurement reports

Multi-sensor measurement systems provide instant measurement reports, capturing a wide range of component features and properties, including dimensions, surface textures, shapes and internal structures.

Improved accuracy & precision

By integrating a variety of sensors within a single programme, it improves inspection accuracy and optimises each sensor's capabilities to achieve the most precise and informative measurement data.

Versatility & adaptability

Inspection programmes can be tailored to the components being measured. Combine multiple sensors to optimise the measurement process and have full flexibility for full-part inspection.

Reduced set-up & calibrations

Consolidate the calibration process through a single, integrated system. This approach reduces set-up time, streamlines workflows and enhances overall efficiency.

Streamlined inspection

Reduce the need for multiple traditional measurement systems by using a single multi-sensor measurement machine, reducing purchase costs, increasing efficiency and freeing up valuable floor space.

Traditional inspection vs. OGP multi-sensor measurement

The way you measure your products has a dramatic effect on your production quality and productivity.

Increase inspection efficiency

Measuring products on traditional measurement systems, such as manual gauges, shadowgraphs and coordinate measuring machines (CMMs), uses valuable inspection time and relies on sensors having physical contact with a component. This can limit measurement capabilities, increase the risk of damaging or moving delicate and flexible components and add up to a significant loss of productivity. Consider the following measurement comparison of the same component.

Traditional inspection

Component Features	Number of Features Measured	Time
24	19	5 Minutes

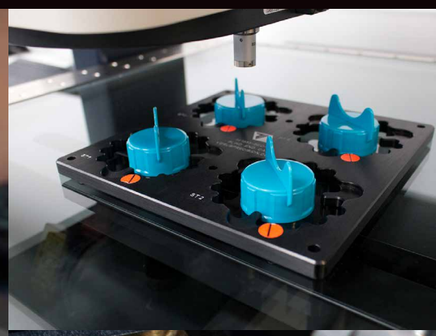
Multi-sensor measurement systems provide a new dimension to component analysis, offering a more complete, versatile and comprehensive approach to the inspection of a component with even greater levels of efficiency. See below.

OGP multi-sensor measurement

Component Features	Number of Features Measured	Time
24	24	1 Minute

See OGP in action







Sensors

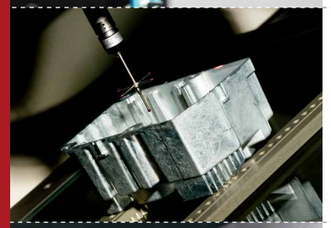
Enhance your measurement capabilities with multiple sensor options, allowing you to measure every feature and every angle.

OGP has consistently led the industry with a succession of innovative systems and sensors to tackle even the most difficult measurement challenges. OGP's multi-sensor measurement systems include a wide range of optional sensors and accessories to enhance all inspection requirements.



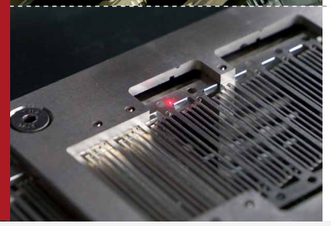
Optics

Fast, non-contact video measurement with high-resolution optical sensors delivers remarkable image quality, high accuracy and repeatability for defined dimensions. Choose from single and dual-magnification optics, ideal for high-speed measurement with high accuracy, to conquer the most challenging measurement tasks.



Probes

Automatically acquire data points between user-defined start and end points, regardless of surface complexity or part fragility, with highly-accurate probes. By using a scanning probe or by single-point probing with a touch-trigger probe, you can access features that are difficult for video measurement or beyond the range of other sensors.



Lasers

Ideal for non-contact scanning and high-accuracy focus points as part of multi-sensor measurement routines, lasers provide one of the fastest, most efficient methods for dimensional inspection. From high-speed measurements to intricate assessments of hard-to-reach features, laser functionality enhances inspection versatility.

Rotaries

Symmetrical parts and parts with important features on many sides can be fully characterised when rotaries are used. Available with different capacities and resolutions, as well as simple and compound configurations, rotaries allow complete 4 and 5-axis measurement in a single set up.



ZONE3

Industry 4.0. Ready

The world's most comprehensive metrology software.

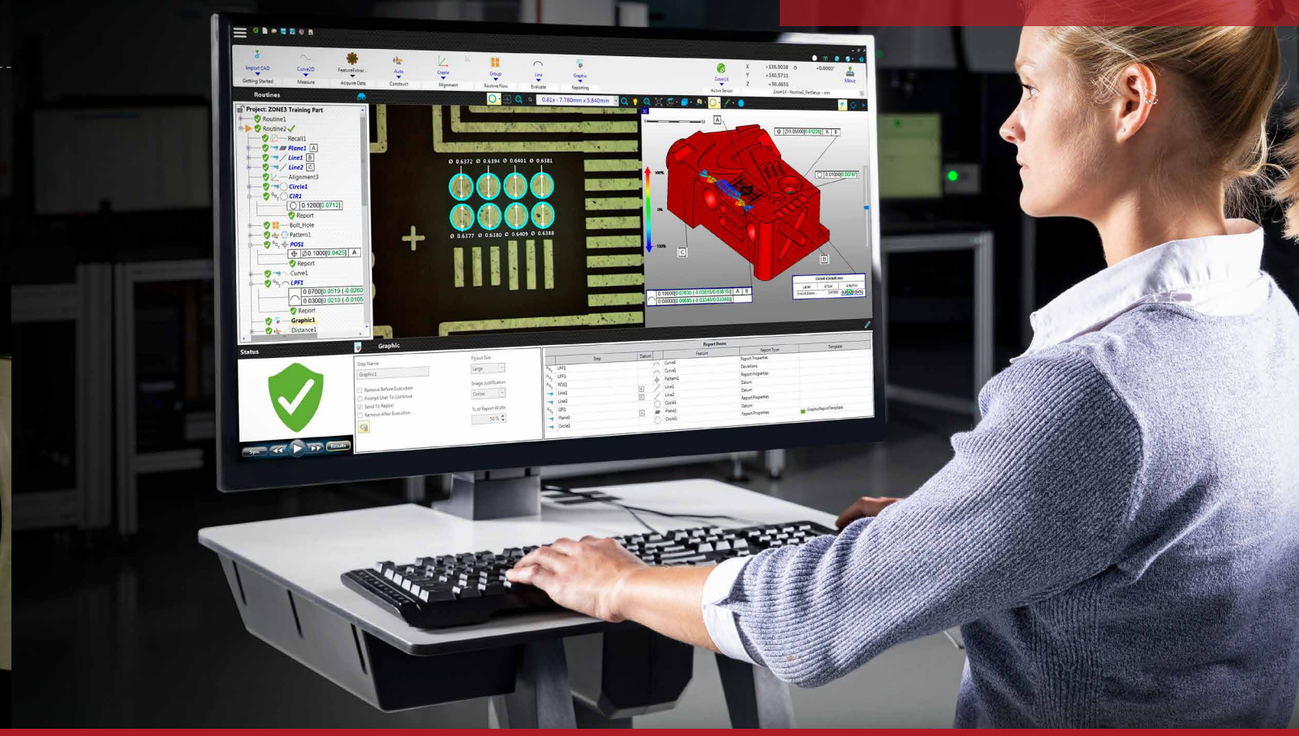
ZONE3 metrology software represents a totally new way of working with multi-sensor measurement systems and provides faster, easier and more productive measurements than ever before. Its interface clearly displays relationships between parts, sensors, datum alignments and machine accessories.

ZONE3 uses innovative features to automatically and effortlessly generate measurement routines, resulting in faster programming and run times than was previously possible with other software packages.

Better measures.
Made easier.

Key Features:

- Truly sensor independent with full multi-sensor capability.
- Full field-of-view image processing allows multiple features to be measured instantly.
- Kinematic model simulation of the machine, part and sensors update in real time.
- ISO 1101 and ASME Y14.5 compliant GD&T functionality.
- Results can be automatically output to any text-based format, PDF, Excel or graphically.
- Advanced CAD tools help in achieving Industry 4.0 principles.
- Easily convert existing routines into a ZONE3 project.
- Available in four different versions - Express, Prime, Pro and Offline - to suit all measurement requirements.
- Admin rights can be adjusted to allow different users to work with different permissions.



E7

Fully-automatic, fixed-lens, 3-axis video measurement system.

The E7, with advanced multi-sensor measurement technology, sets the standard for 3-axis video measurement performance. The fixed-lens IntelliCentric optical system and digital zoom provide a high-resolution image engineered for video edge-detection metrology.

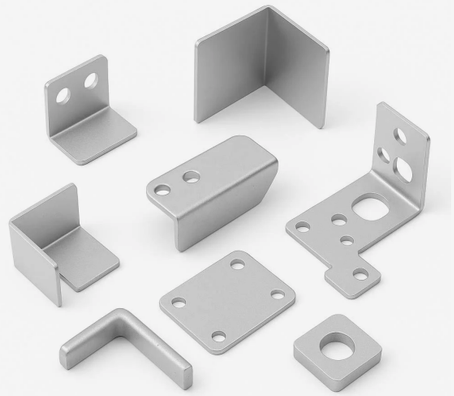


Key Features:

- Fixed-lens IntelliCentric optical system and digital zoom.
- All LED coaxial, substage profile and SmartRing light illumination.
- Heavy-duty cast base and integral compound stage.
- Touch probe and rotary options provide full measurement versatility.

E7 from £229 per week*

*Indicative price for base machine only, subject to credit approval





Specifications:

Capacity:	XYZ travel: 250 x 150 x 200mm
Accuracy:	XY accuracy: (2.2 + 5L/1000) µm Z accuracy: (3.8 + 5L/1000) µm

M-Series

Universal measuring for all inspection tasks.

The M-Series builds upon OGP's multi-sensor platform to deliver optics, laser and probe into a single measurement cycle. A variety of optional tactile, laser and advanced non-contact sensors make SmartScope M-Series systems the best multi-sensor measurement choice for leading manufacturers around the world.

Designed for us on the shopfloor, the M-Series range covers a broad spectrum of inspection tasks and is ideal for automatic general-purpose, coordinate measuring with multi-sensor dimensional measurement.

Industry 4.0. Ready

Key Features:

- Patented fixed lens, VIRTUAL ZOOM™ system offering instantaneous magnification change for fast, repeatable measurements.
- Quickly pivot from fully telecentric optics to tactile probes to laser sensors on one system.
- See every detail with remarkable image quality and improved resolution thanks to a 20MP metrology camera.
- Standard LED coaxial, substage profile, and SmartRing light to illuminate the most challenging parts.

M-Series from £302 per week*

*Indicative price for base machine only, subject to credit approval



M7

Compact, 3D, multi-sensor dimensional measurement system.

Specifications:

Capacity:	XYZ travel: 250 x 150 x 200mm
Accuracy:	XY accuracy: (1.8 + 5L/1000) µm Z accuracy: (2.5 + 5L/1000) µm



M45

Large-capacity, 3D, multi-sensor dimensional measurement system.

Specifications:

Capacity:	XYZ travel: 500 x 450 x 200mm
Accuracy:	XY accuracy: (2.5 + 5L/1000) µm Z accuracy: (3.0 + 8L/1000) µm

SP 332

Designed for optimum scanning probe performance.

The SP 332 offers high performance in a convenient benchtop package. The elevating-bridge design provides machined-in squareness and a large work envelope that uses very little floor space. An air-bearing Z-axis motion system provides the friction-free motion and stiffness necessary for excellent scanning probe performance.

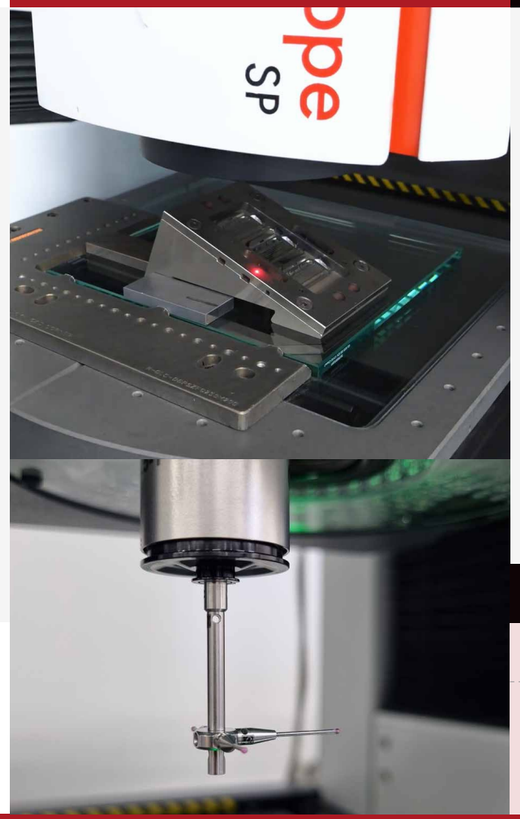


Key Features:

- Rigid base structure for optimum scanning probe performance.
- AccuCentric motorised zoom lens to automatically compensate for magnification.
- Standard profile light, coaxial surface light and SmartRing light to illuminate the most challenging parts.
- Exceptional video capabilities with wide-field lens megapixel camera.

SP 332 from £425 per week*

*Indicative price for base machine only, subject to credit approval



Specifications:

Capacity:	XYZ travel: 300 x 300 x 250mm
Accuracy:	XY accuracy: (1.9 + 5L/1000) µm Z accuracy: (3.8 + 5L/1000) µm

Vantage 450

Heavy-duty, advanced, multi-sensor inspection for large parts.

The Vantage 450 is an extremely accurate floor-standing, multi-sensor measurement system designed to measure larger parts or to accommodate fixtures of multiple parts or large rotary indexers, incorporating optics, probes, lasers and rotaries for full versatility and accuracy in inspection.



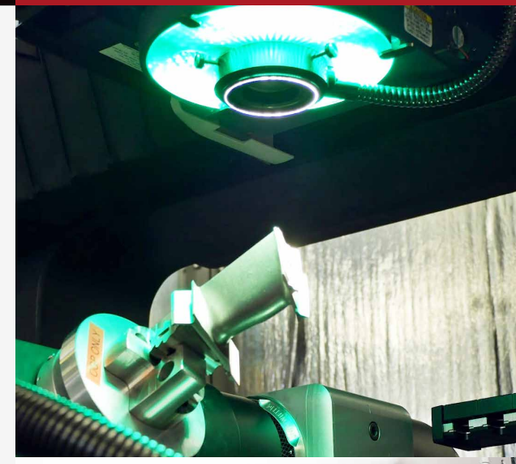
Industry 4.0. Ready

Key Features:

- IntelliCentric fixed-lens optical system, with 10:1 zoom optics and auto-focus.
- Air-bearing Z-axis motion system provides friction-free movement.
- Standard profile light, coaxial surface light and SmartRing light illuminates every angle.
- Sturdy steel support structure and solid granite bridge design enable high-speed stage movement.

Vantage 450 from £960 per week*

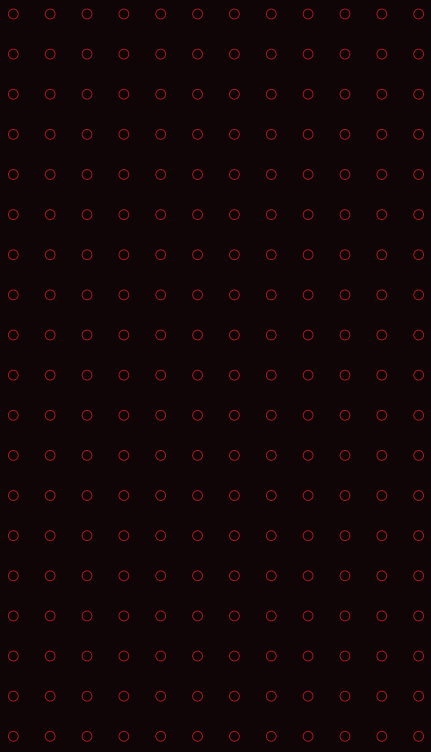
*Indicative price for base machine only, subject to credit approval





Specifications:

Capacity:	XYZ travel: 450 x 450 x 250mm
Accuracy:	XY accuracy: (1.5 + 4L/1000) µm Z accuracy: (2.5 + 5L/1000) µm



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