HEXAGON

Sales fact sheet

GLOBAL Touch+

General-purpose measurements of size features with highly repeatable touch-trigger probing

Application class

Universal size measurements

Typical part and feature characteristics

- Prismatic parts
- Complex 3D arrangement of geometric elements around the part
- Standard geometric size features: distances, radii, angles, inner and outer diameters
- Position and orientation tolerances

Application examples

- Valve body housings
- Plastic moulded parts
- Hinge joints and spars
- Extruded profiles

How the GLOBAL Touch+ builds

Base system

HP-THDe
Touch-trigger probe

HH-AS-T5
Motorised 5° indexing probe head

PC-DMIS CAD

HR-MP
Probe module changer rack

Eco Mode

- Ready-to-use system for universal size measurements by touch-trigger probing
- Five different cross sections available
- Targeted metrology solution dedicated to specific applications

Options

PC-DMIS CAD++

XT (extended temperature)
Near-line measurement

PULSE wireless
Real-time environmental monitoring

Eco Mode+

Messaging lights

HH-AS-T2.5 / H2.5
Motorised 2.5° indexing probe head

- Tailored to individual application needs

Enhancement packages

Auto Create

Cycle Time

Reporting

Industrial Integration

Automation

Traceability

Adaptability to individual production objectives

- Smart features for targeted productivity enhancements
- Pre-bundled and anytime applicable

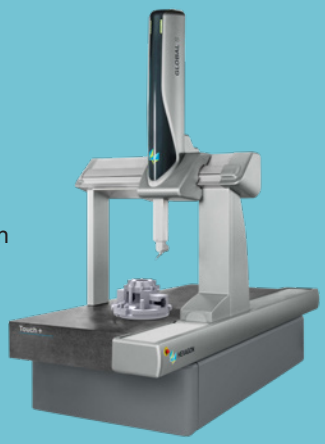
GLOBAL S bridge-type CMMs

GLOBAL S CMMs are designed to be fast and are built on advanced design principles to inspire certainty and confidence.

- Solid granite base with integrated dovetail guide, bridge with triangular crossbeam and air bearings on all axes for precise and repeatable high speed measurements
- Extended operating temperature range option and real-time temperature compensation for reliable measurements even with temperature fluctuations

GLOBAL S CMMs are designed to be configurable for the measurement task at hand.

- Future-ready modularity: Enhancement options can be selected during initial CMM configuration or set up later to the in-service machine, allowing for scalable and adaptable system performance over the entire lifecycle



Manufacturer challenges

- Efficient tactile measurement of prismatic parts of varying complexity and size
- Accurate, reliable and traceable 3D measurements
- Tight integration of the CMM into smart production environments
- Ease of CMM operation to reduce the need for skilled labour
- Local service and support

GLOBAL Touch+: Solving customer challenges

- 6-way touch-trigger probe mounted on a motorised indexing probe head for repeatable and fast 3D point measurements in any spatial direction
- ISO 10360 standard-compliant 3D accuracy specification
- Standardised integration kits ranging from half-automated part loading to fully automated solutions maximise CMM utilisation and increase throughput
- Seamless integration with Hexagon's IoT technologies for remote asset and environment monitoring
- Simplified INSPECT operator interface with real-time graphical reporting ensures intuitive operation, minimising the risk of data input and interpretation errors
- Maximum CMM availability through Hexagon's global service and support network

What to ask when the competition claims...

... to be cheaper

- Does the system offer future-ready modularity?
- Can the system easily connect to automation integrators?
- Does the system's accuracy specification conform to ISO 10360 standards?
- Does the system perform well in the 15°C - 30°C operating temperature range without needing a costly climate room?
- Is real-time CMM status, usage and performance data included with the system?
- Does the system provide energy-saving features as standard?

... to measure faster

- Does the system's 3D moving speed and acceleration reach up to 510 mm/s and 1700 mm/s^2 respectively?
- Are the measurement results repeatable? Reproducible?

... to provide systems easier to use

- Is a simple operator interface for shop-floor inspection included as standard?
- Does the system provide centralised reporting and visualisation functionality?
- Can the system alert the operator to environmental events such as crash events, vibrations, humidity and temperature spikes?

Other Hexagon solutions

- **Leitz Reference CMMs** for high-accuracy measurements of tight tolerance parts
- **OPTIV M multisensor CMMs** All-in-one metrology solutions with vision, touch probe and optical white light sensor
- **Leitz PMM-C CMMs** Premium metrology devices for highly precise measurements with sub-micron accuracy