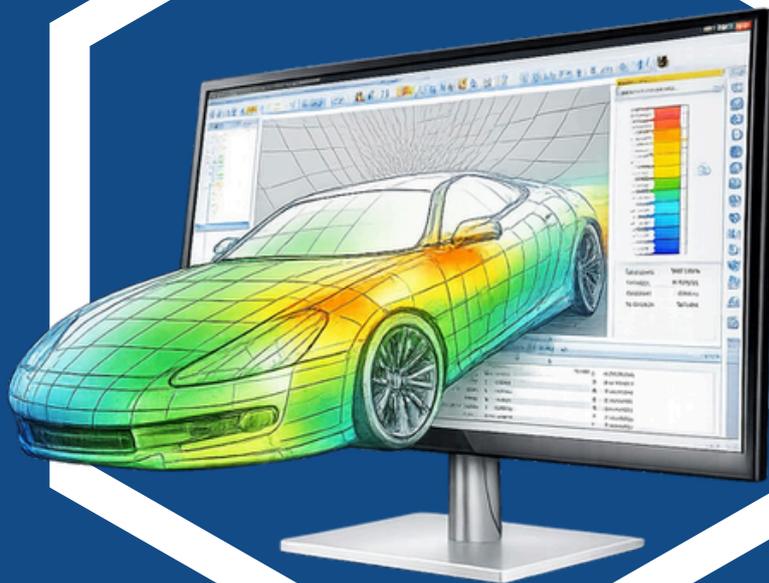




MSL
Measurement Solutions Ltd

Automotive Measurement Solutions for Production Environments

Integrated technologies and expert support for OEMs,
Tier suppliers and specialist manufacturers



01733 325252 | sales@measurement-solutions.co.uk | www.measurement-solutions.co.uk

Portable Precision | Automated Inspection | CMM & CT | Guided Assembly | Accredited Calibration

Operating Under Compressed Development Cycles

Automotive moves fast, with tight development timelines, massive production volumes, and zero tolerance for quality slips.

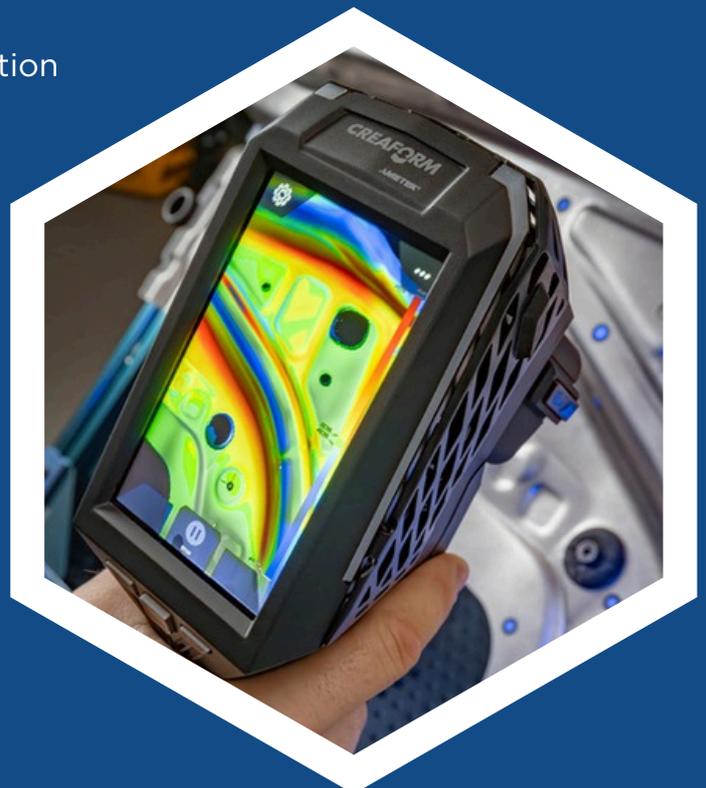
Measurement has to keep pace: starting with prototype checks, moving smoothly into launch validation, then embedding into high-speed lines without slowing anything down.

The Daily Battles

- Protecting perfect Class-A surfaces and tight gap/flush specs
- Controlling body-in-white geometry during launch
- Verifying fixtures and tooling before they cause issues
- Nailing first-off parts and PPAP submissions
- Running reliable inline checks on subassemblies

Applications Where We Deliver

- Class-A surface, gap, and flush validation
- Full BIW dimensional inspection
- Assembly fixture and tooling checks
- First article and PPAP reporting
- Robotic inline verification of subassemblies



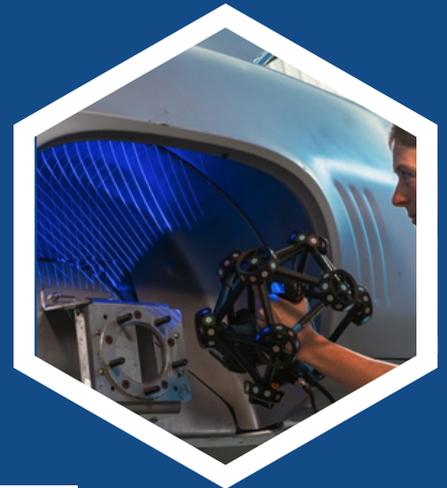
Technologies Engineered for Automotive Pace

Portable 3D Scanning & Automated Inspection Technologies

MetraSCAN Black



Optical CMM scanner designed for dynamic shop-floor inspection of complex aerospace components. Its tracker-based system delivers highly accurate measurements directly in production environments, supporting quality control, tooling verification, and assembly validation.



HandySCAN EVO



Next-generation handheld 3D scanner providing fast, high-resolution measurement for automotive parts and tooling. Ideal for tool validation, reverse engineering, and launch support, enabling engineers to quickly verify components during development and production ramp-up.

Automation (Cube-R/M Series)



Robotic inspection systems designed for inline and near-line quality control in high-volume manufacturing.

These automated cells integrate scanning technologies to deliver repeatable inspection workflows, rapid data capture, and continuous production monitoring.



Technologies Engineered for Automotive Pace

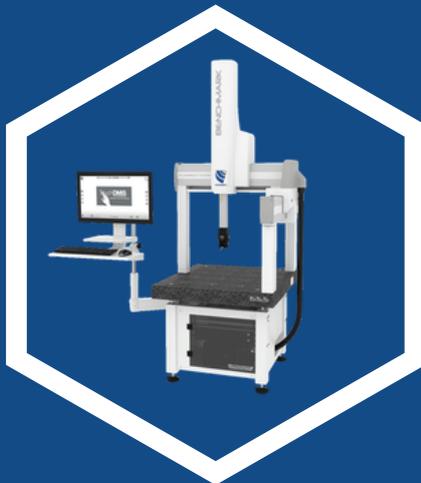
Inspection, Assembly & Quality Analysis

Virtek Laser Projection



Projects precise digital templates directly onto parts, fixtures, and assemblies, eliminating the need for physical guides.

This improves speed and consistency in vehicle assembly, welding operations, and composite or trim installation.



Coord3 and READY RUN 444 CMMs



High-precision coordinate measuring machines are designed for dimensional inspection of automotive components, tooling, and assemblies.

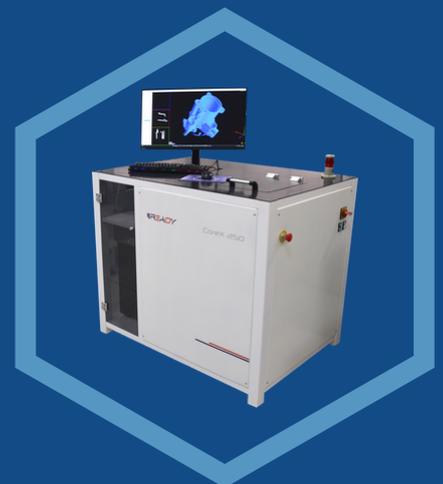
Supporting GD&T analysis and automated inspection routines, they ensure reliable geometry control from the metrology lab to the production floor.

COREX Production CT



Industrial CT systems provide non-destructive internal inspection of castings, additive parts, and complex automotive components.

They reveal hidden defects, porosity, and internal structures to support quality assurance, process validation, and failure analysis.



Software That Drives Efficiency

VXelements (Inspection, Scan-to-CAD Pro, VX-SCAN-R)

Integrated software for fast 3D scanning, scan-to-CAD alignment, and dimensional inspection of automotive components and assemblies.

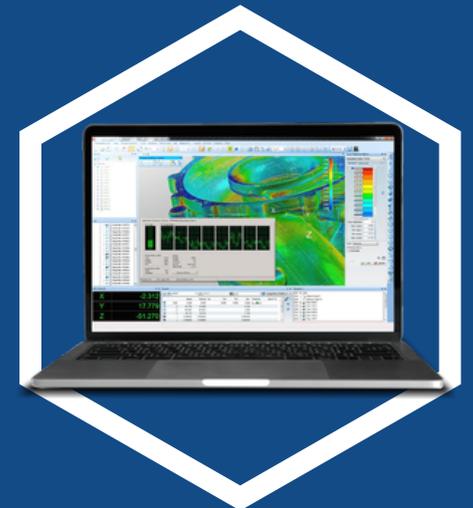
Supports automation workflows, reverse engineering, and digital twin creation for faster development and production validation.



Metrolog X4

Advanced metrology software for multi-sensor inspection systems, including CMMs, portable arms, trackers, and optical scanners.

Enables efficient measurement programming, CAD comparison, GD&T analysis, and production reporting.



Twyn

Digital twin platform that connects 3D measurement data with CAD models to visualise deviations and validate assemblies.

Helps teams turn inspection results into production intelligence and faster quality decisions.



UKAS-accredited Measurement Services & Calibration

MSL supports manufacturers with accredited measurement services, expert metrology engineers and UKAS-accredited calibration that ensure reliable, traceable dimensional results across production and maintenance environments.

Measurement Services

Flexible inspection and measurement support delivered by experienced engineers using advanced metrology technologies.

Typical applications include:

- Independent dimensional inspection
- Reverse engineering and digital part capture
- Large-part and complex assembly measurement
- Production launch and project support
- Additional metrology capability during peak demand



UKAS Accredited Calibration

MSL operates a UKAS-accredited calibration laboratory, providing traceable calibration services that maintain measurement accuracy and support compliance with quality standards.

Calibration capability includes:

- CMM calibration and verification
- Portable metrology system calibration
- Dimensional equipment verification
- Traceable certification and documentation



From inspection support to long-term calibration, MSL helps manufacturers maintain accurate, reliable measurement capability across the entire product lifecycle.

An Integrated Measurement Ecosystem for Automotive

MSL connects portable scanning, robotic automation, CMMs, CT, and accredited support into workflows that fit real production environments, helping stabilise launches and maintain high-volume quality.

Insights from MSL & Our Customers

This approach is already delivering measurable impact across automotive development, launch and production environments. The following case studies and insights highlight how manufacturers are applying these technologies in practice.

RML Group | How 3D Scanning Created a Hypercar



TripleRComposites | Revolutionising Automotive Styling



How Portable Metrology Powers Modern Automotive & Motorsport Engineering





MSL
Measurement Solutions Ltd

In automotive, you need speed without sacrificing precision.

MSL's connected ecosystem makes repeatable, automation-ready measurement possible, stabilising production, cutting variation, and speeding development from concept to line.

Why MSL For Automotive?

We blend portable tools, robotic inspection cells, CMMs, CT, laser guidance, and UKAS services into practical, scalable solutions. Whether you're an OEM pushing volume or a specialist building high-end vehicles, we engineer measurement that matches the real demands of modern manufacturing.



FARO · CREAFORM
AMETEK

COORD3

twyn VISOMETRY

 matrologic dcs™

READY

VIRTEK



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