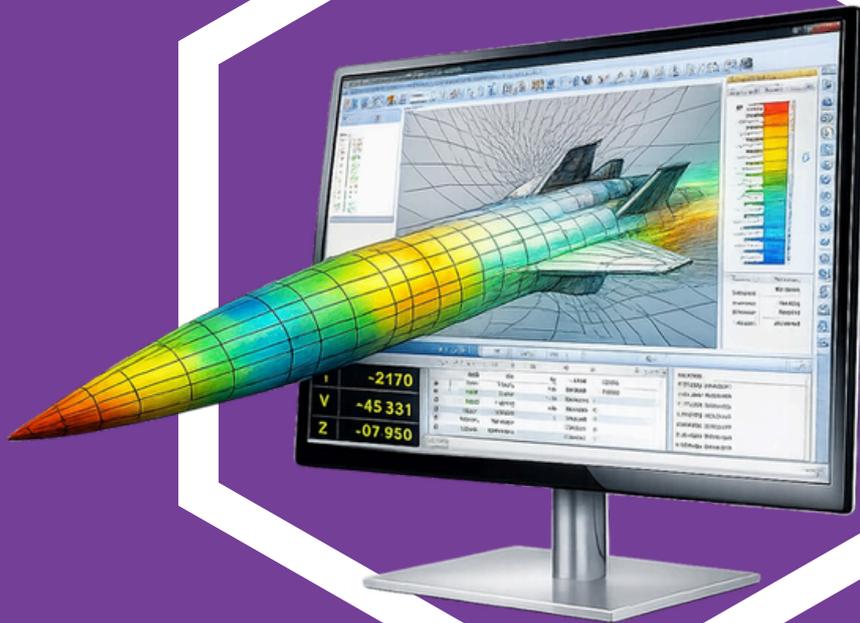




MSL
Measurement Solutions Ltd

Defence & MRO Measurement Solutions for Operational Readiness

Secure, field-capable and depot-level measurement solutions delivered through one connected ecosystem.



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

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

Inspection in Mission-Critical Environments

In Defence and MRO, the priority is always readiness, keeping platforms available, structurally sound, and sustainable over long lifecycles.

Measurement tools have to deliver reliable, traceable results whether in the field, on a forward base, or back at depot, often under tough conditions and tight turnaround times.

The Real-World Pressures

- Dealing with ageing fleets and spotty legacy drawings
- Meeting rising compliance and traceability demands
- Carrying out sustainment and refurb without sacrificing availability
- Getting accurate data quickly to support repairs and return-to-service

Key Areas Where We Add Value

- Reverse engineering legacy or obsolete components
- Structural inspections on military platforms
- Field assessment of battle damage or impact deformation
- Validation of repairs and refurbishment work
- Automated, depot-level checks on components



Precision Technologies for Mission-Critical Environments

Portable 3D Scanning Technologies

HandySCAN MAX



Designed for large-scale inspection and reverse engineering, HandySCAN MAX captures accurate 3D measurements of large defence structures such as vehicles, ship components, and aerospace assemblies. Its wide scanning area enables fast data capture for structural assessment, maintenance planning, and digital twin creation.



HandySCAN Black



A metrology-grade portable 3D scanner built for reliable measurement in demanding environments, including production floors and field operations. Its vibration tolerance and high accuracy support inspection of large components, tooling verification, and defence maintenance activities.

HandySCAN EVO



A next-generation handheld 3D scanner designed for fast, flexible measurement across a wide range of part sizes. Combining high-resolution detail capture with large-area scanning capability, EVO enables efficient inspection, reverse engineering, and field-based measurement in defence manufacturing and maintenance environments.



Precision Technologies for Mission-Critical Environments

Inspection, Assembly & Advanced Analysis

Virtek Laser Projection



Virtek laser projection systems guide technicians by projecting digital templates directly onto parts or structures, removing the need for physical patterns.

This improves speed and accuracy in assembly, composite layup, and repair operations across defence manufacturing and maintenance environments.



Coord3 and READY RUN 444 CMMs



High-precision coordinate measuring machines are designed for accurate dimensional inspection of critical defence components.

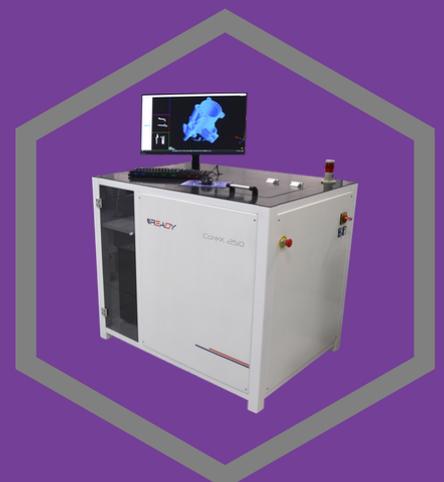
These systems support complex measurement routines, GD&T analysis, and production verification to ensure consistent quality across machined parts and assemblies.

COREX Production CT



Industrial computed tomography systems enable non-destructive internal inspection of complex components, revealing hidden defects, porosity, and structural issues.

Production CT supports quality assurance, failure analysis, and material integrity verification for high-value defence parts.

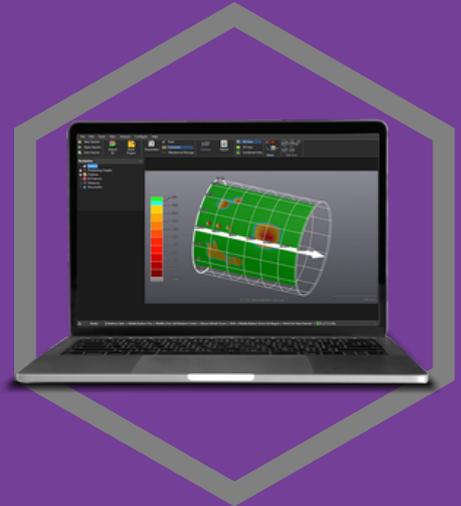


Software That Keeps Things Secure

VXelements & VXintegrity Suite

VXelements is the core software platform for Creaform 3D scanners and portable CMMs, enabling data acquisition, scan-to-CAD alignment, and dimensional inspection within a single interface.

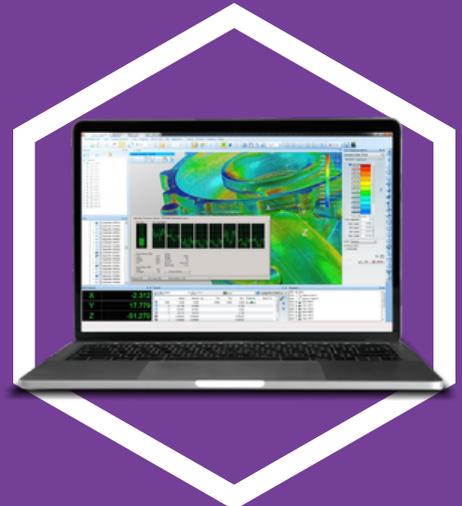
VXintegrity adds advanced tools for corrosion, deformation, and damage analysis on pipelines and critical infrastructure, with clear reporting, and supports dent and buckle analysis on aircraft structures.



Metrolog X4

Metrolog X4 is a universal metrology platform for programming and executing inspections across multiple measurement technologies, including CMMs, portable arms, trackers, and optical scanners.

It supports CAD comparison, GD&T evaluation, and custom reporting to streamline quality control processes.



Twyn

TWYN is a digital twin inspection platform that compares 3D scan data with CAD models to visualise deviations and validate assemblies.

It enables teams to review measurement results in an interactive digital environment, improving communication, traceability, and decision-making.



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.

A Secure Measurement Ecosystem for Defence & MRO

MSL builds secure, connected systems that combine portable field tools, depot automation, and accredited services, everything designed to extend platform life while keeping compliance watertight.

Insights from MSL & Our Customers

These capabilities are already supporting defence organisations and MRO teams working with complex platforms and ageing assets. The insights below explore how modern measurement technologies are being used to improve sustainment, support refurbishment programmes and maintain dimensional confidence across critical defence infrastructure.



How 3D Scanning & Metrology Are Transforming Aerospace & Defence Efficiency



Maximising Efficiency in Surface Damage Assessment



Measurement for Defence Industries





MSL
Measurement Solutions Ltd

Bottom Line

Operational readiness lives or dies on dimensional confidence. MSL's connected ecosystem delivers the repeatable, traceable measurement that extends asset life and supports mission demands.

Why Choose MSL for Defence & MRO?

We cover the full range, from rugged portable scanning in the field to automated CMM and robotic inspection at depot, plus full UKAS calibration.

Our integrated approach ensures consistent dimensional control throughout the lifecycle, so platforms stay ready when it counts.



FARO | **CREAFORM**
AMETEK

COORD

twyn VISOMETRY

 **matrologic dcs**

READY

VIRTEK



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