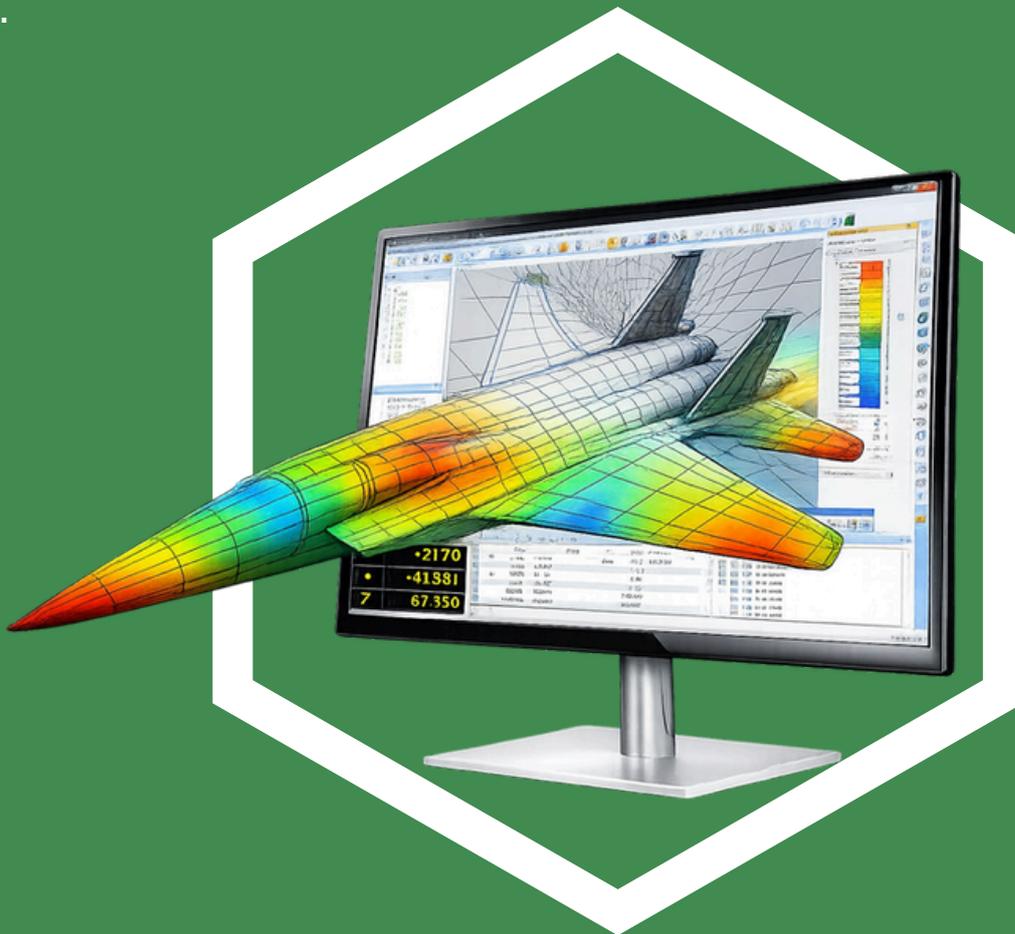




**MSL**  
Measurement Solutions Ltd

# Aerospace Measurement Solutions for Certification & Compliance

Advanced measurement technologies and accredited services supporting aerospace manufacturing and MRO.



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

# Operating in a Certification-Driven Environment

Aerospace doesn't leave much room for error. Tight tolerances, complex composites, massive airframe assemblies, and constant regulatory oversight mean every measurement has to be rock-solid, traceable, and ready for audit.

That's where a truly integrated measurement setup makes the difference, giving teams the confidence to move fast without risking compliance.

## What Keeps the Industry Up at Night

- Cutting rework on expensive composite parts and large structures
- Holding dimensional accuracy across huge assemblies
- Speeding up production ramps while staying fully certifiable
- Handling MRO inspections without pulling aircraft out of service longer than necessary

## Where Our Solutions Make the Biggest Impact

- Composite tooling checks, mould validation, and laser-guided layup/assembly
- Full airframe structural scans and guided build processes
- Precise alignment and verification of structural interfaces
- Engine and nacelle component checks
- On-wing or in-hangar damage and deformation assessment for MRO



# Core Technologies Built For Aerospace Demands

## Portable 3D Scanning Technologies

### HandySCAN MAX



The HandySCAN MAX captures accurate 3D data from large airframe structures, tooling, and assemblies, enabling efficient inspection and reverse engineering.

Its large measurement area allows engineers to quickly scan wings, fuselage sections, and fixtures for structural assessment, digital twin creation, and MRO planning.



### 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 scanner delivering fast, high-resolution 3D capture for components and detailed aerospace parts. Its portability makes it ideal for maintenance, repair, and overhaul (MRO) inspection, reverse engineering, and rapid dimensional checks.



# Core Technologies Built For Aerospace Demands

## Inspection, Assembly & Advanced Analysis

### Virtek Laser Projection



Projects accurate digital templates directly onto parts and tooling, eliminating physical templates.

Widely used in aerospace manufacturing for composite layup, trimming, drilling guidance, and complex assembly positioning.



### Coord3 and READY RUN 444 CMMs



High-accuracy coordinate measuring machines for precise dimensional inspection of aerospace components, tooling, and assemblies.

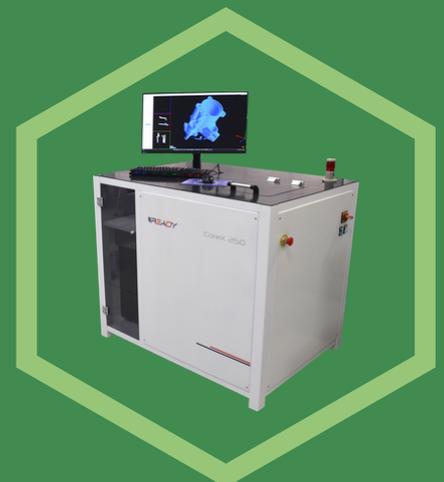
These systems support GD&T analysis and repeatable inspection workflows to ensure consistent manufacturing quality.

### COREX Production CT



Industrial computed tomography enables non-destructive inspection of internal structures within aerospace components.

It reveals hidden defects, porosity, and structural features to support quality assurance, validation, and failure analysis.



# Smarter Software to Tie It All Together

## VXelements & VXintegrity Suite

Advanced software for scan-to-CAD workflows, high-resolution inspection, and structural analysis of aircraft components.

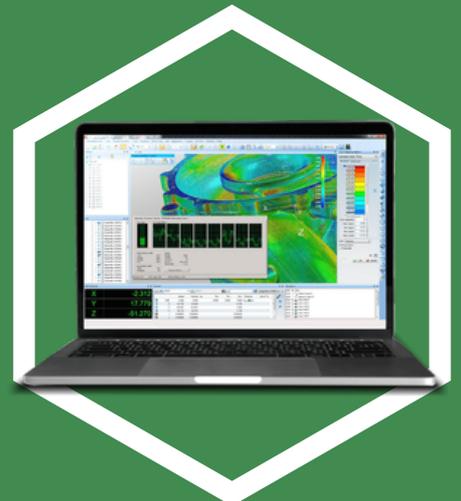
VXintegrity enables detailed dent and buckle assessment, supporting maintenance, repair decisions, and certification-ready reporting.



## Metrolog X4

Powerful metrology software for programming and running inspections across multi-sensor systems, including CMMs, portable arms, trackers, and optical scanners.

Supports CAD comparison, GD&T evaluation, and production reporting for complex aerospace parts.



## Twyn

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

Enables teams to review results in an interactive environment while maintaining traceability across programmes, suppliers, and manufacturing sites.



# Measurement Services & UKAS-accredited 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.

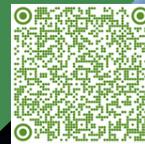
# A Connected Measurement Ecosystem for Aerospace

At MSL, we don't just sell tools; we bring everything together into a single, connected measurement ecosystem. Portable scanning, large-part inspection, CMMs, automation, CT, and accredited services work together in workflows that deliver results in aerospace, helping teams maintain compliance while managing the complexity of modern programmes.

## Insights from MSL & Our Customers

These technologies are already supporting aerospace manufacturers and MRO organisations across development, production and in-service inspection. The insights below explore how these capabilities are being applied across modern aerospace programmes.

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



3D Scanning for Surface Damage Assessment



Accurately Measure & Analyse Large Parts With Ease





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**In aerospace, everything comes back to dimensional confidence; it's what keeps aircraft safe, certified, and structurally sound.**

MSL brings you a connected ecosystem that combines portable precision, large-scale inspection, automation, and full accreditation. From first article to in-service support, we give you the experience and traceability the sector expects.

## **Why Choose MSL for Aerospace?**

We bring together portable scanners, CMMs, robotic options, CT, laser guidance, and UKAS-calibrated services into a single, scalable setup. It's measurement done right, from initial capture through to certification, so your team can focus on building and maintaining world-class aircraft.



**FARO CREAFORM**  
AMETEK

**COORD3**

**twyn**  
VISOMETRY

**matrologic dcs**

**READY**

**VIRTEK**



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