

# Custom Turnkey Solutions for Scalable Precision



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## Our Values



Partnership



Dedication



Responsibility



Delivery



Curiosity



**ISO 9001**  
**Quality Management**  
Ensuring consistent quality, customer satisfaction, and operational excellence.



**ISO 14001**  
**Environmental Management**  
Commitment to sustainability, regulatory compliance, and reducing environmental impact.



**ISO 45001**  
**Occupational Health & Safety**  
Creating a safe and healthy work environment for employees and stakeholders.

## About Us

When Verus Precision (trading as Verus Metrology Partners) was founded in 2008, Andrew Hodson and Michael Nugent, two expert Toolmakers, had no idea how revolutionary their new “Metrology Hot Desk” would be for the process of measurement and the Medical Technology and FMCG industries. As founders, each possessed expertise in Toolmaking before specialising in their respective fields of Moldflow Analysis and Dimensional Inspection Metrology.

Combined, they have specialist knowledge in the fields of Injection Moulding, Metrology Fixture Design and Metrology Fixture Manufacturing & Assembly. Their collaboration has led to a niche offering for companies seeking added value at their product design and development stages. Since 2008, our commitment has resulted in double-digit annual growth as well as a customer base of international stature. Today, we are proud to be the trusted, world-leading provider of Turnkey Metrology Solutions with locations in Sligo, Ireland and Nottingham, UK.

“Verus is one of our top choices when it comes to fixture design and programming due to their knowledgeable staff who have years of experience with CMM and OGP equipment. It’s always a pleasure working with the Verus team, and we look forward to working with them on future projects!”

- Josephine V. Metrology Engineer MGS Mfg

## Message from the CEO

At Verus Metrology Partners, we are committed to evolving the technologies used for the metrology inspection process that have, until now, remained unchanged for more than 70 years. From across the globe, clients like you have been coming to us searching for a trusted partner that delivers working metrology solutions. Keeping this in mind, our dedicated metrology experts continue to push the boundaries surrounding the measurement process, searching for that solution. Our consistent pursuit of market-leading innovation, quality and customer service, backed by investment in our people and processes, has underpinned our double-digit annual growth for more than a decade, as well as a customer base of international stature.

Verus Metrology Partners is more than the synergistic expression of our collective expertise. Inherent in the company’s initial set up is a widely held philosophy of continuous improvement, building relationships based on partnership, trust and complete customer service. As a direct result, we have developed a reputation for incorporating innovation into each of our fixtures to improve our clients’ metrology machine efficiencies. We have partnered with some of the world’s largest MedTech multinationals to solve their metrology challenges. We take pride in working as a team to achieve the best possible outcomes with clients like you. Thank you for choosing Verus for your Metrology solutions.

**Andrew Hodson**  
CEO



## Message from the COO

At Verus, our expertise in metrology stems from years of experience across diverse industries, including MedTech, Pharma, and implantable medical devices. Our team's broad exposure to various applications, platforms, and software ensures that we deliver innovative, reliable solutions tailored to each client's needs. Because we operate independently and engage with a wide spectrum of technologies, our clients benefit from best-in-class service and expertise.

What truly sets us apart is our commitment to long-term partnerships. We don't believe in unnecessary spending—we guide our clients toward cost-effective, high-value solutions. As we continue investing in cutting-edge metrology capabilities and scaling our operations, our focus remains on streamlining processes and passing cost savings back to our clients. Above all, quality is at the heart of everything we do. As I always say, "Quality isn't expensive, it's priceless."

Michael Nugent  
COO



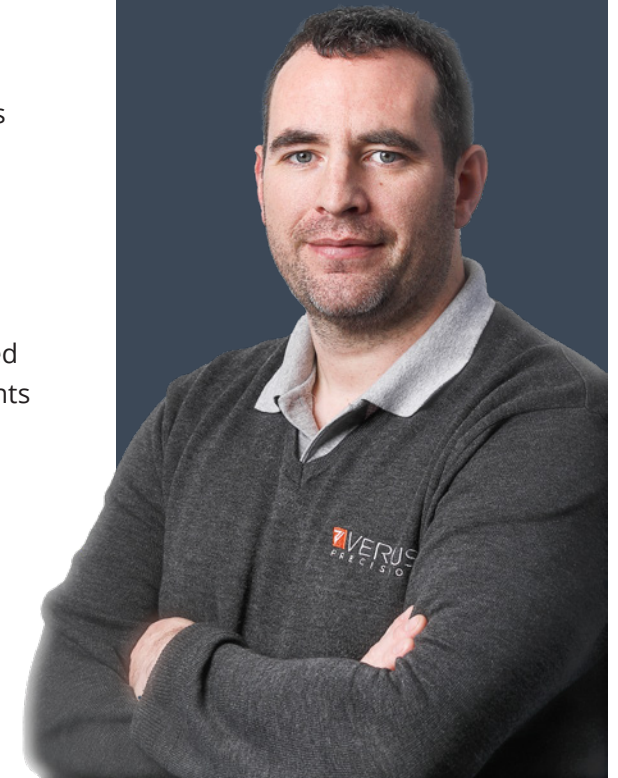
## Message from the CTO

Technical innovation is at the core of Verus' mission. In high-precision industries, measurement solutions must be robust, reliable, and easy to use while meeting stringent regulatory requirements. That's why we prioritize scalable, future-proof solutions, collaborating with clients from the earliest design stages to ensure their evolving needs are met.

We invest heavily in the latest advancements, working closely with industry leaders to stay ahead of emerging technologies. From CT scanning to automated measurement systems like ScanBox, we adapt to industry demands for faster, more accurate data acquisition and analysis. Our focus is always on delivering best-in-class solutions that optimize efficiency while maintaining the highest integrity of results.

At Verus, we don't just keep up with the times—we drive progress. We are committed to continuously evolving to provide our clients with the most advanced, reliable metrology solutions available.

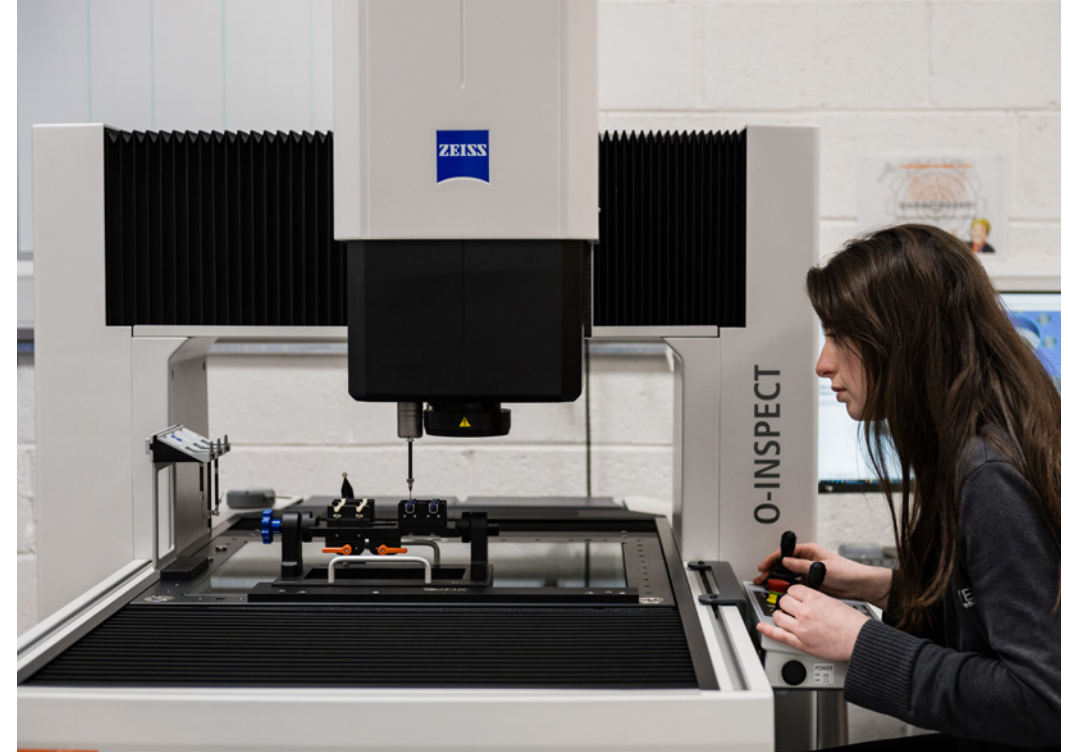
Sean Murphy  
CTO



## Sustainability in Precision

At Verus Metrology Partners, sustainability is at the core of our innovation. We reduce waste through precision-engineered solutions, invest in renewable energy with solar power, and uphold ISO 14001-certified environmental practices. Our commitment ensures smarter manufacturing and a greener future for the FMCG and medical device industries.

- Solar-powered operations
- ISO 14001 environmental certification
- Recycling & waste reduction
- Precision fixtures for sustainable manufacturing



## Optimising Quality Processes

Quality departments are under pressure to identify and work towards the ever-evolving, highest possible standards. This can result in quality being seen as just a tick-box exercises.

However, Verus believe that skillfully organised quality labs can increase revenue, strengthen access to a skilled workforce, and boost productivity and efficiency which will see benefits across your business and not just on regulatory reports.

Your quality department shouldn't just present problems, your quality department should be identifying opportunities.

Our first-class service is comprised of a team of metrology experts, sophisticated software, and a strong focus on advancing the process of measurement through innovation that ensures our metrology solutions maximises efficiencies across our clients' manufacturing procedures.

- Reduce costs
- Eliminate unnecessary Cap X spending
- Increase ROI
- Limit production downtime
- Reduce part recalls and material waste
- Increase device safety

# What We Do

## Custom Metrology Fixtures



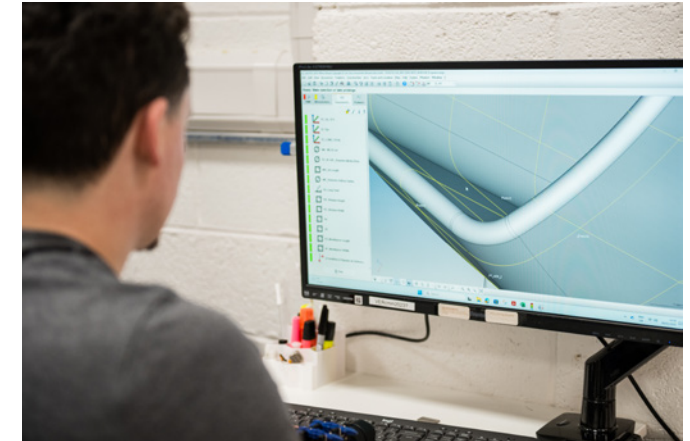
Maximise your capacity and Cap X ROI with our custom metrology inspection fixtures. Pair your inspection machine with a robust device that is designed, manufactured and tested to fit your project specifications.

## Training and Support



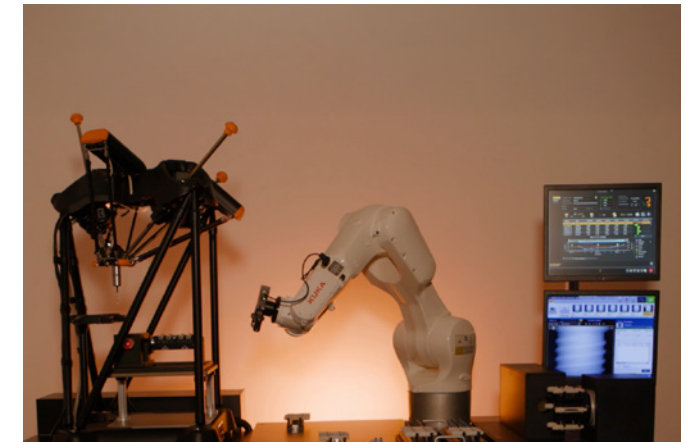
We offer training, so your staff can bring back the metrology expertise needed to streamline your metrology processes.

## Metrology Subcontract Services



Speed up your validation process, reduce risk, and improve the traceability of your inspection processes. We understand the importance of accuracy and quality assurance to your project and end clients.

## Automated Metrology Systems



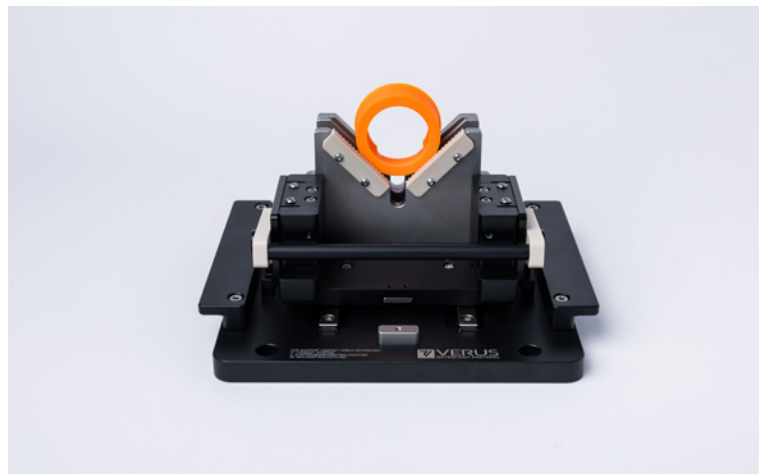
The Anvil AMS takes bulk inspection to the next level, reducing human intervention and increases throughput more than ever before.

## Industry Experience

### Medical Device and Pharma

- Diagnostic devices
- Life support and therapeutic devices
- Surgical instruments
- Drug delivery devices
- Orthopedic devices
- Dental devices
- Cardiovascular devices

Verus Metrology Partners are global leaders in providing metrology solutions



### Automotive

- Micro engine components

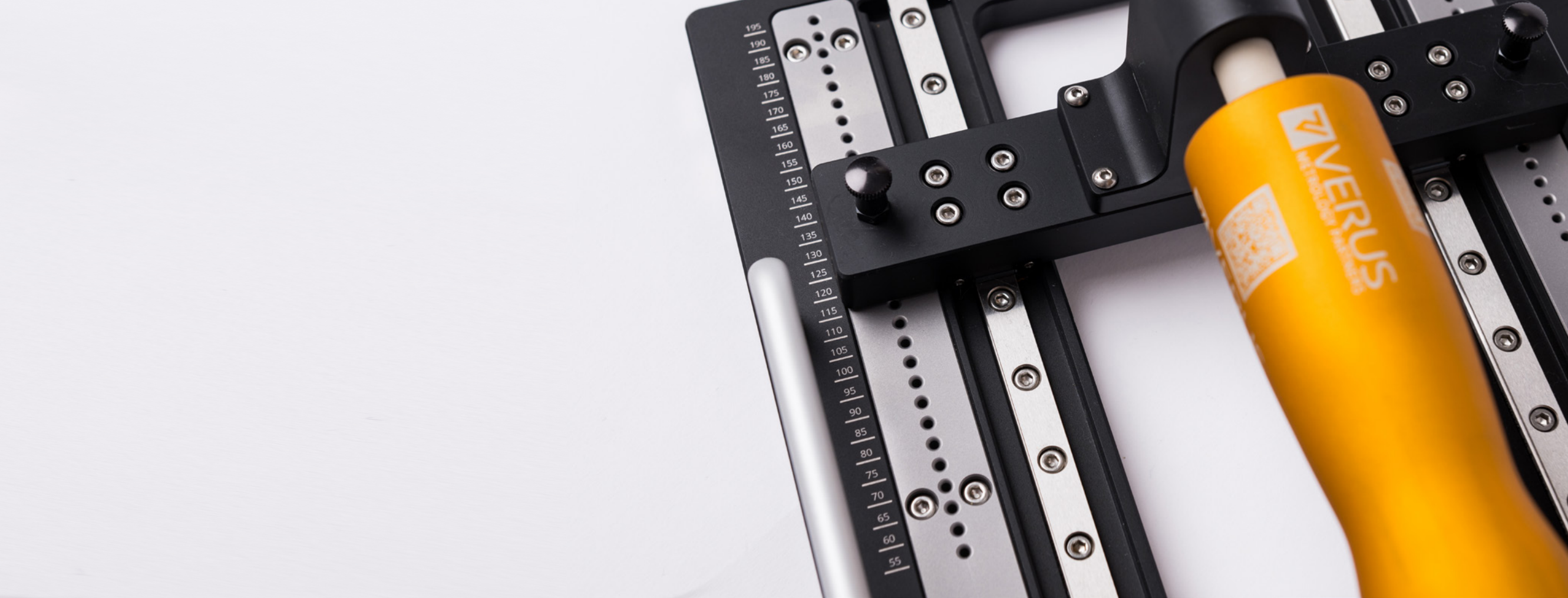


### FMCG

- Containers
- Aerosol cans
- Caps and closures

### Material Specialisation

- Glass
- Flexible plastic
- Rubber



# Custom metrology fixtures

Ensure accurate, repeatable, and reproducible inspection processes with a fully Custom metrology fixture.

Here's what you can expect from our metrology and CMM fixtures:

- Fixturing solutions designed to optimise your inspection process, driving efficiency gains and productivity improvements.
- Delivering measurement accuracy by holding the part being measured securely and without any movement.
- Enhancing innovation in your inspection processes, such as through the introduction of rotational fixtures. With rotational fixtures, movement is defined and carefully controlled to enable measurements with minimal operator intervention.
- Enable quick, repeatable, and reproducible inspections.
- Increasing throughput in quality control processes, as well as inspection rates.

# Turnkey Metrology Fixtures

## Custom Metrology Fixtures

Turnkey Metrology and CMM Fixtures for All Types of Inspection Process

- CMM
- Vision system
- 3D scanner
- Optical comparator
- And more

See Page 41 for Catalogue of fixture range

Design

Manufacturing

Qualification

Programming

Installation

**Metrology fixtures designed to ensure consistent, repeatable, and efficient product inspections.**

### Medical Device Metrology Fixtures Design

- Suitable for medical device products of any shape, size, intricacy, or complexity
- Designed to securely hold your product or products in place, enabling fast, accurate, repeatable, and reproducible inspections
- The fixture will be designed to minimise operator steps, reducing errors and eliminating operator variance
- All measurements in a single setup
- You'll be involved in the design process with our collaborative approach
- Get final sign-off on the design before manufacturing



## Our Fixture Design Process

- Requirements Specification
- Initial Concepts
- Internal Review
- Design Qualification with Client
- Approval and Final Design
- Release for Manufacture



### Manufacturing metrology fixtures that will improve your inspection processes.

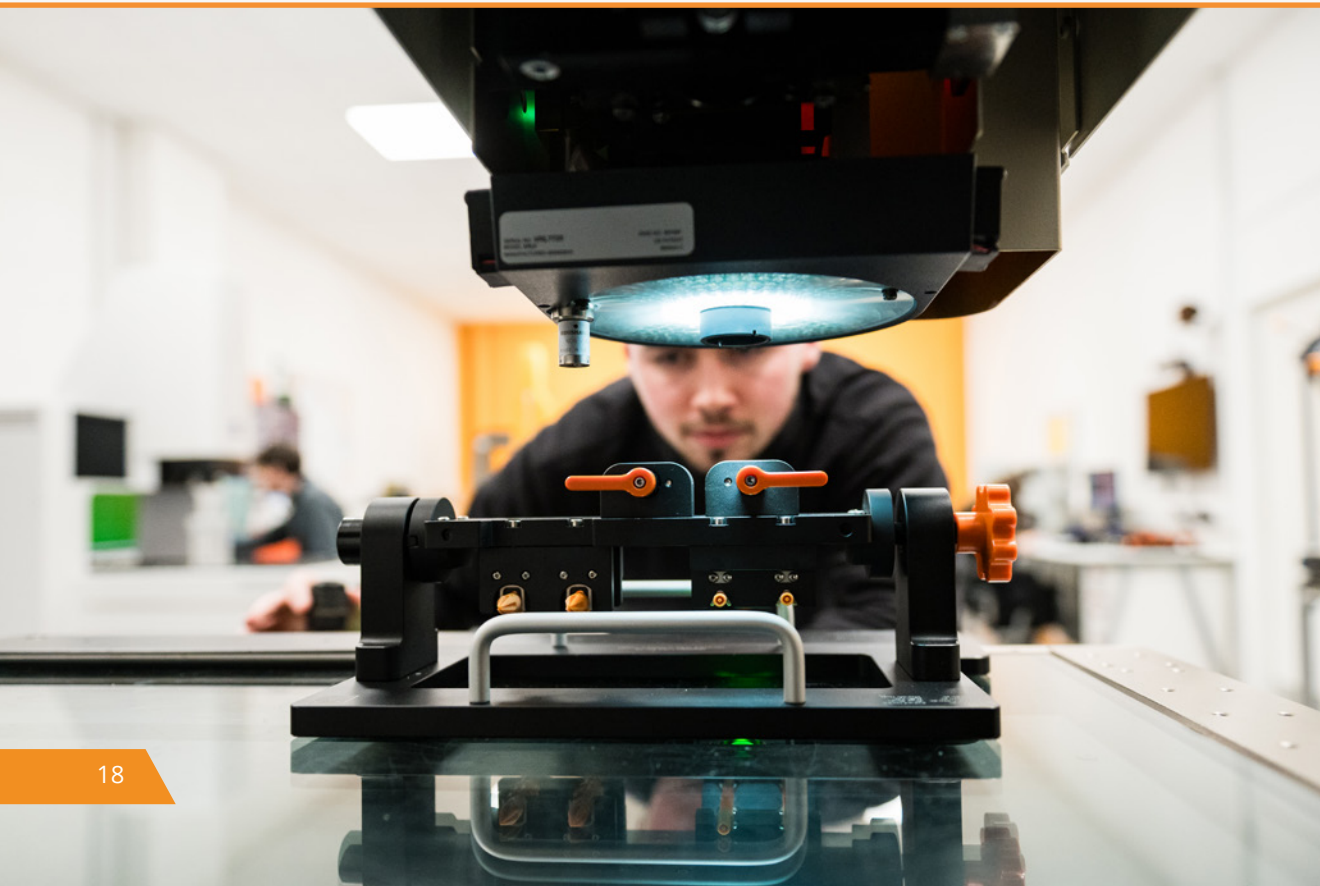
- Benefit from our extensive experience delivering fixturing solutions for customers in the medical device industry.
- Invest in a fixture that will secure your medical device products or components during metrology inspection processes.
- The fixture will be Custom to the measurement systems in your facility.
- Even the most delicate, intricate, or complex component can be secured without distortion.
- Your fixture will be Custom for the materials used to manufacture the part, including polymers. The fixture will be designed and manufactured to speed up your inspection processes, reduce errors, and minimise manual intervention.

### In-House Metrology Fixture Manufacturing

Your new fixturing solution will be produced at our state-of-the-art metrology fixture production facility. This facility is equipped with high-end manufacturing equipment, and it is staffed by a skilled, dedicated, and knowledgeable team.

Your options include:

- CMM fixtures
- Vision systems fixturing solutions
- Auto-rotational fixtures
- Multi-station fixtures
- Fixture docking stations
- Modular fixtures
- And more



We'll conduct a Gage R&R study on your new fixture before shipping it to your location.

### Benefits of Metrology Fixtures Qualification

- Ensures high standards of fixture manufacture and design
- Helps with compliance processes
- Eliminates issues before the fixture leaves our facility, speeding up the fixture development and installation process
- You will have reliable information on the level of precision you can achieve when using the fixture for inspection routines

Custom metrology fixtures

Our Custom fixtures are shipped with a programme ready to be loaded on to the client's metrology machine.

### Metrology Fixture Installation

You'll get access to a highly skilled metrology engineer who will install your new fixture on your measurement machine, finalise the set up, and provide your team with training.



### Onsite Fixture Installation

- Installation by one of our metrology engineers
- Our logistics team will ensure the fixture arrives at your facility ahead of the engineer
- When on-site at your facility, our engineer will follow all health and safety procedures, cleanroom protocols, and other processes
- Full training will be provided for your technicians on using the new fixture and inspection program.

### Remote Fixture Installation

- Real-time access to our highly skilled engineers
- Remote installation process will be completed using tried and tested technologies and processes, with multiple connection options and redundancies
- Full training completed during the remote sessions to equip your engineers with the skills and knowledge they need
- With remote installation of your fixture, timelines can be cut to get your new inspection processes up and running faster
- Costs can also be reduced as travel expenses are eliminated
- Also eliminates the requirement for admitting a third-party contractor to your facility with all the hassle that can involve

# Dimensional Inspection Services

Expert metrology consultancy services and practical support for all your inspection needs.

Get support for your dimensional metrology or inspection requirements with our specific expertise in the medical device industry. This includes metrology and inspection expertise in relation to ultra-small, intricate, and complex medical devices and components. You'll benefit from fully Custom dimensional inspection services that will deliver on your needs and meet your objectives:

- Product quality
- Waste reduction
- Production process efficiency
- Compliance
- Quality control
- Patient safety



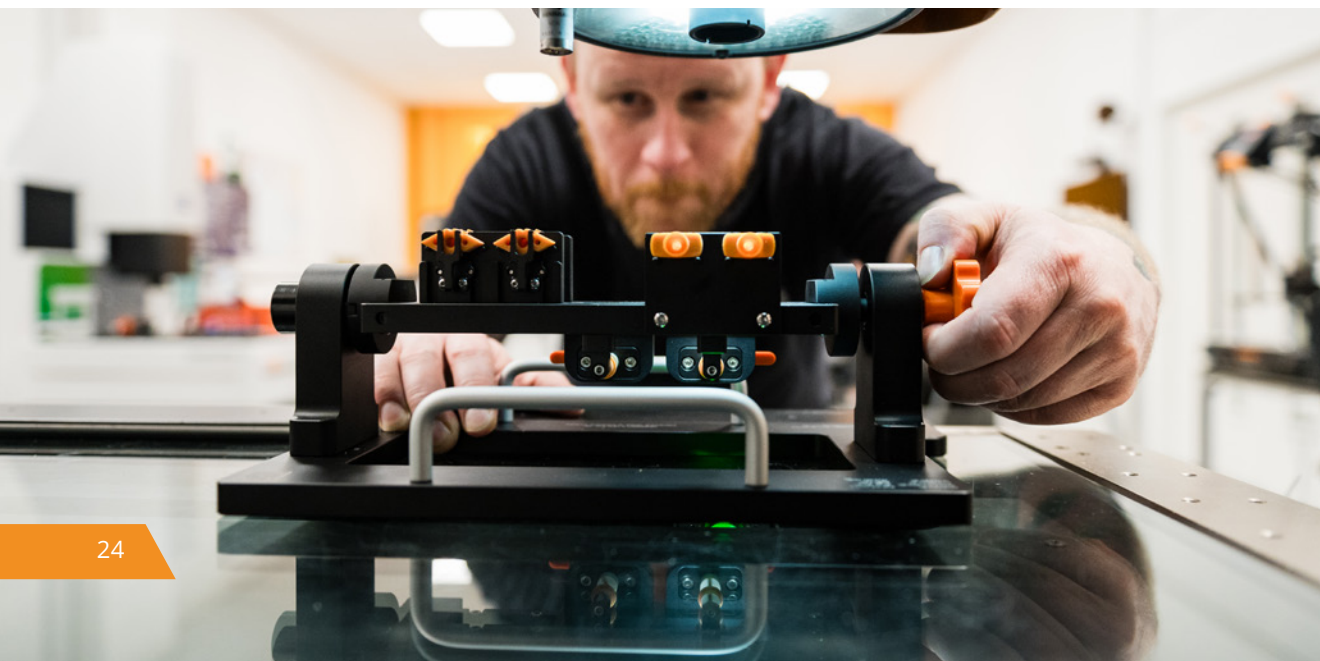
Our services range from metrology consultancy services to on-site inspection to CMM programming and everything in between.

- Initial Sample Inspection Report – (ISIR)
- First Article Inspection Report – (FAIR)
- Component measurement
- Tool validation metrology
- Multi-cavity mold testing and inspection
- Cavity verification/CAD to part deviation
- Gage R&R studies
- Geometric dimensioning and tolerancing (GD&T) analysis
- Fixture qualification
- CMM programming
- CMM calibration and retrofits
- Measurement procedure creation
- Equivalency testing using your products and fixtures as well as one of your metrology machines temporarily installed at our facility, or an equivalent machine
- In-process validation
- Process capability studies
- On-site metrology services and support



## Benefits of Our Dimensional Inspection and Metrology Services

- Access to an expert and highly qualified team
- We use a partnership approach to ensure you get the highest standard of service
- Shorter delivery timelines through the replication of your facility using our wide range of in-house CMMs and inspection equipment
- You can expect a fast turnaround on your request
- Fully Custom dimensional inspection services customised to your needs
- Impartial and unbiased approach to dimensional inspection and metrology where the focus is delivering maximum returns on your investments
- Non-destructive testing as standard
- Full commitment to delivering on your specific requirements
- Cost-effective pricing, further enhancing return on investment



## First Article Inspection and Process Verification Services

- NPIs (new product introduction) – introducing a new medical device product to your production line
- Design change – verifying the manufacturing process following a design change to an existing product
- Manufacturing process change – re-verifying a manufacturing process after it has been modified or updated, such as where new tooling has been introduced, new equipment installed, or new materials sourced
- Factory relocations – our FAI service can verify the manufacturing process of a production line that has been moved to a new location
- Restarting a production line – if you have a product or production line that hasn't been used for a long period of time, our FAI service can verify the manufacturing process
- Customer request – if you are a contract manufacturer of medical device products or components, your customer might request an FAI

All the above examples represent situations where FAIs are required to ensure your products remain in compliance with FDA, European, and other medical device regulations.



## Creating an FAI Plan

Get expert support with all aspects of your FAI to ensure it is as successful and useful as possible. After all, the inspection and report generation components are only parts of an FAI project.

Creating a detailed plan for the FAI is also essential. We'll ensure the plan for your project is fully Custom to your requirements, but common components of an FAI plan include:

- Information on the features and elements of the device, including materials and components
- Details of how the device will be inspected, both the objective and subjective elements
- The number of products that will be inspected in the first production run batch
- Gage R&R requirements
- Specific requirements and guidelines for the final FAI report

## Custom Metrology Fixtures

In line with international standards, our engineers carry out a Verification & Calibration Process on all custom metrology fixtures following their on-site completion. This involves an examination of each metrology fixture to ensure it is performing and functioning accordingly.

Maintaining our guarantee of complete customer satisfaction, a Verus engineer will conduct a six-month post-delivery check-up of the fixture to ensure it is performing as intended.

At Verus, partnership is a two-way street; therefore, our support team is always ready to assist you with any issues that arise following the shipment of your metrology fixture. Our expert engineers are available should you require technical support or further assistance with your metrology fixtures.

**We provide accredited and traceable Verification & Calibration services to our wide range of global clients who benefit from our in-house expert metrology engineers. We perform a Verification & Calibration process on your custom metrology fixture as well as non-standard/custom gauges.**

## Non-Standard/Custom Gauges

We specialise in the calibration of non-standard custom gauges along with complex purpose-built metrology fixtures.

We offer a unique partnership with our clients to verify and calibrate their non-standard gauges used for in-process checking. Working closely with our clients has assisted us in continually enhancing our verification methods used for testing gauges. This collaboration has resulted in a superior metrology verification process in which we and our clients have full confidence.

As part of our industry leading Verification & Calibration Process, we have a standard procedure in place for the inspection and testing of all non-standard custom gauges.

Our Verification & Calibration Process includes:

- An approved latest technical drawing highlighting the dimensions for inspection
- An approved method of inspection and verification
- A Verus custom turnkey validation program
- A fully detailed Verus certificate of verification
- Retained raw data from the inspection process
- A database of all Verus certificates and methods of verification

We also provide Verification & Calibration for a wide variety of custom gauges including:

- Go no-go gauges
- Plug gauges
- In-production checking gauges

# Metrology Lab



**We offer premium metrology laboratories that provide fast and reliable dimensional inspection and measurement instrument verification services.**

Possessing the experience and provisions needed to fulfil clients' individual inspection requirements, the metrology labs are supervised by our highly qualified Metrology Managers who in turn are aided by a team of expert Metrology Engineers and Technicians.

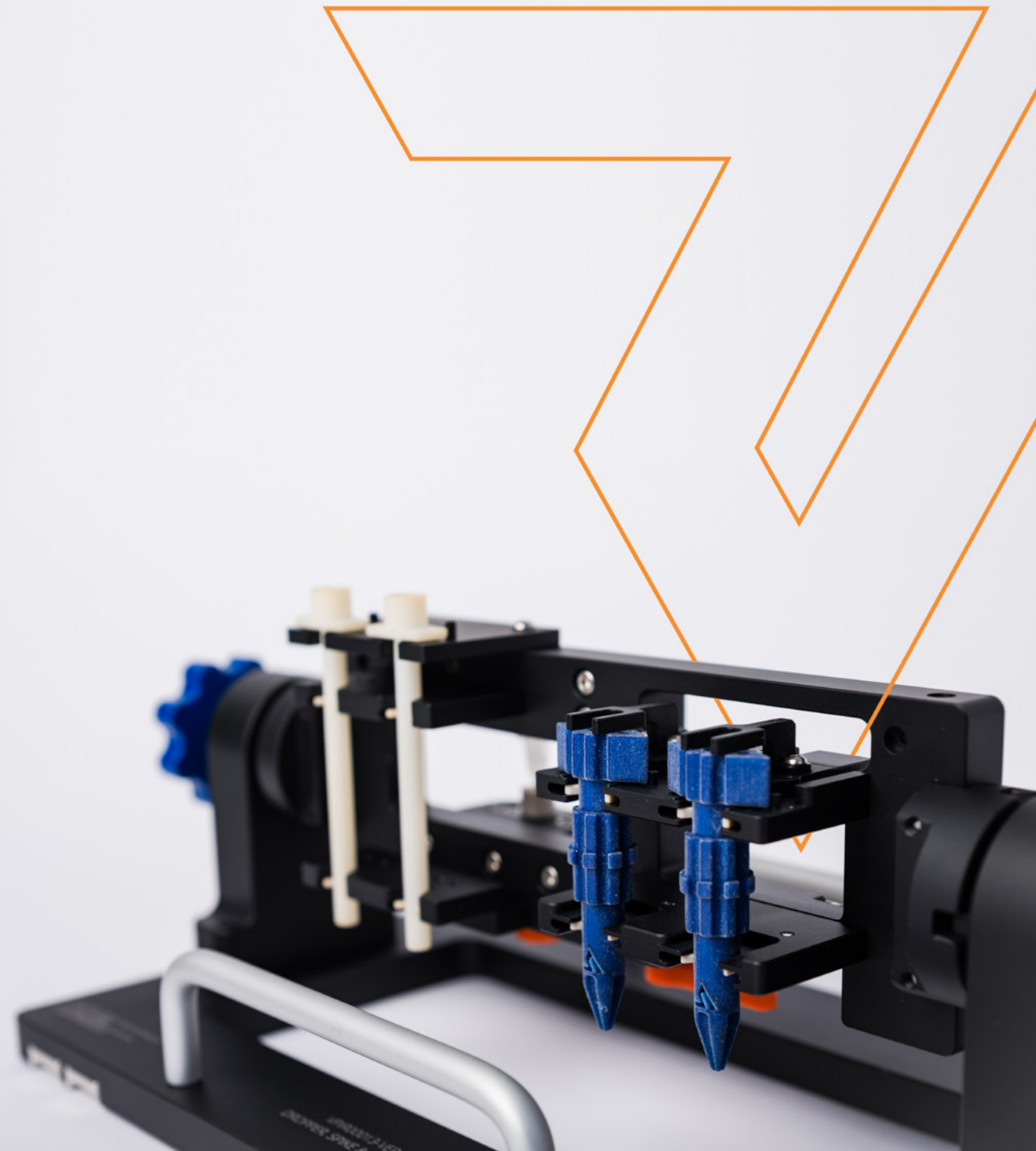
Equipped with a diverse range of machine types and software platforms, our metrology labs facilitate the need for accurate dimensional measurement and offer clients a streamlined, high-volume capacity. Serviced and calibrated each year in line with ISO 17025 standards, all our CMMs and Vision Systems are placed in a temperature-controlled environment which has a 24-hour monitoring system.



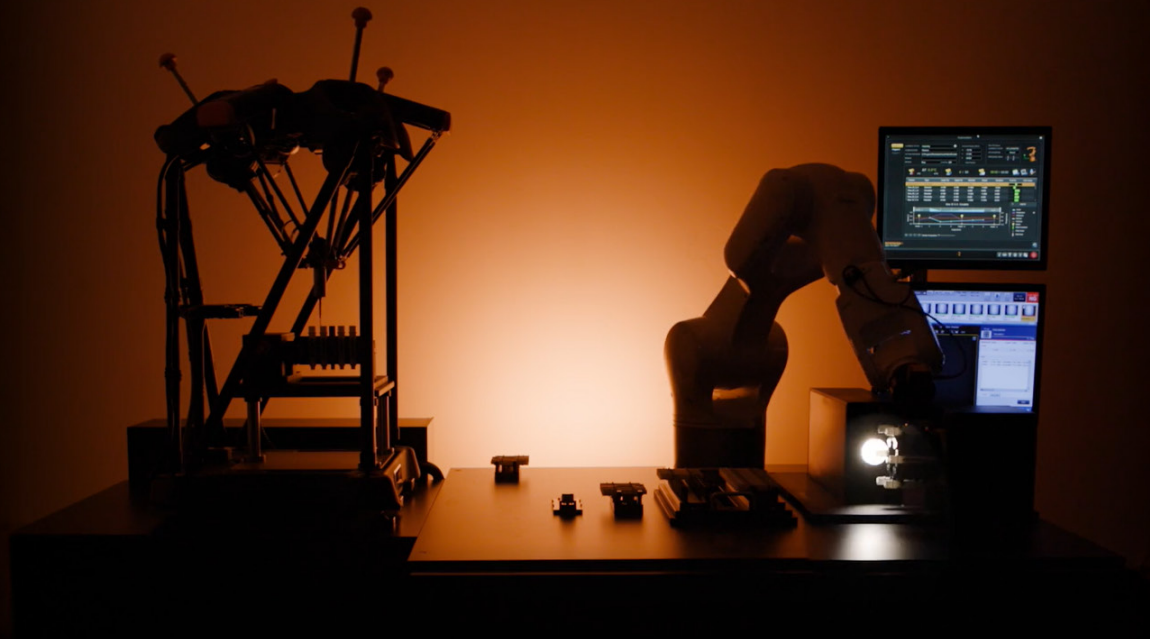
As part of our turnkey metrology services, all projects are customised and managed by an OEM and GD&T trained individual with whom clients will have a direct line of communication with, providing clarity, transparency, and daily updates across all measurements. We run all the latest versions of control software, which allows us to programme the machines and transfer the programmes to client machines if required. Furthermore, the traceability and uncertainty of measurements are validated through our accreditation process.

Our current contact and non-contact metrology platforms include:

- 7 x CMM Probing Systems (Software Platforms include PC DMIS, MCOSMOS, MODUS and Virtual DMIS)
- 6 x OGP Vision/Probe Systems (Utilising Measure Mind 3D, Measure X and Zone 3 Software)
- 1 x ZEISS O-INSPECT 543 Multi-Sensor CMM
- 1 x ZEISS O-INSPECT 322 Multi-Sensor CMM
- 1 X ZEISS CONTURA
- 1 x MicroVu Excel 502 Vision Probing System
- 1 x Renishaw Equator 300 Gauging System



# Automated Metrology Systems



## Enhancing Precision, Efficiency, and Quality in Manufacturing

Achieve a new level of accuracy and efficiency with automated metrology solutions that integrate precision-engineered fixturing with advanced measurement technology. Designed to streamline inspection processes, this system ensures repeatability, reduces human error, and enhances overall quality control.

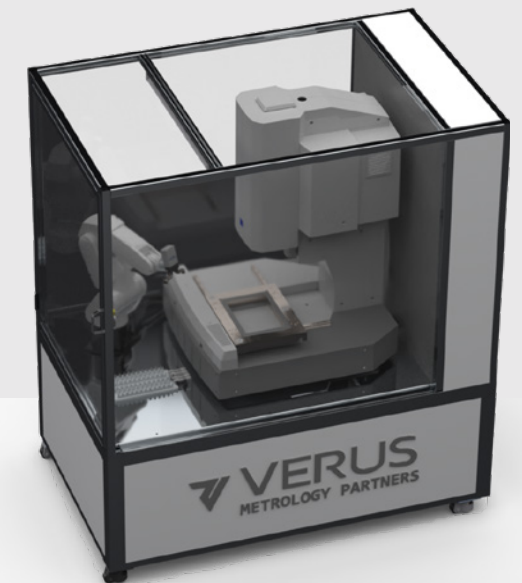


### Key Benefits:

- Increased Throughput – Automates measurement cycles, reducing inspection time and manual handling.
- Consistent Accuracy – Precision fixturing ensures repeatable, high-quality results.
- Seamless Integration – Designed to fit into existing production workflows with minimal disruption.
- Real-Time Data and Analysis – Provides actionable insights for process optimization and quality assurance.

### How It Works:

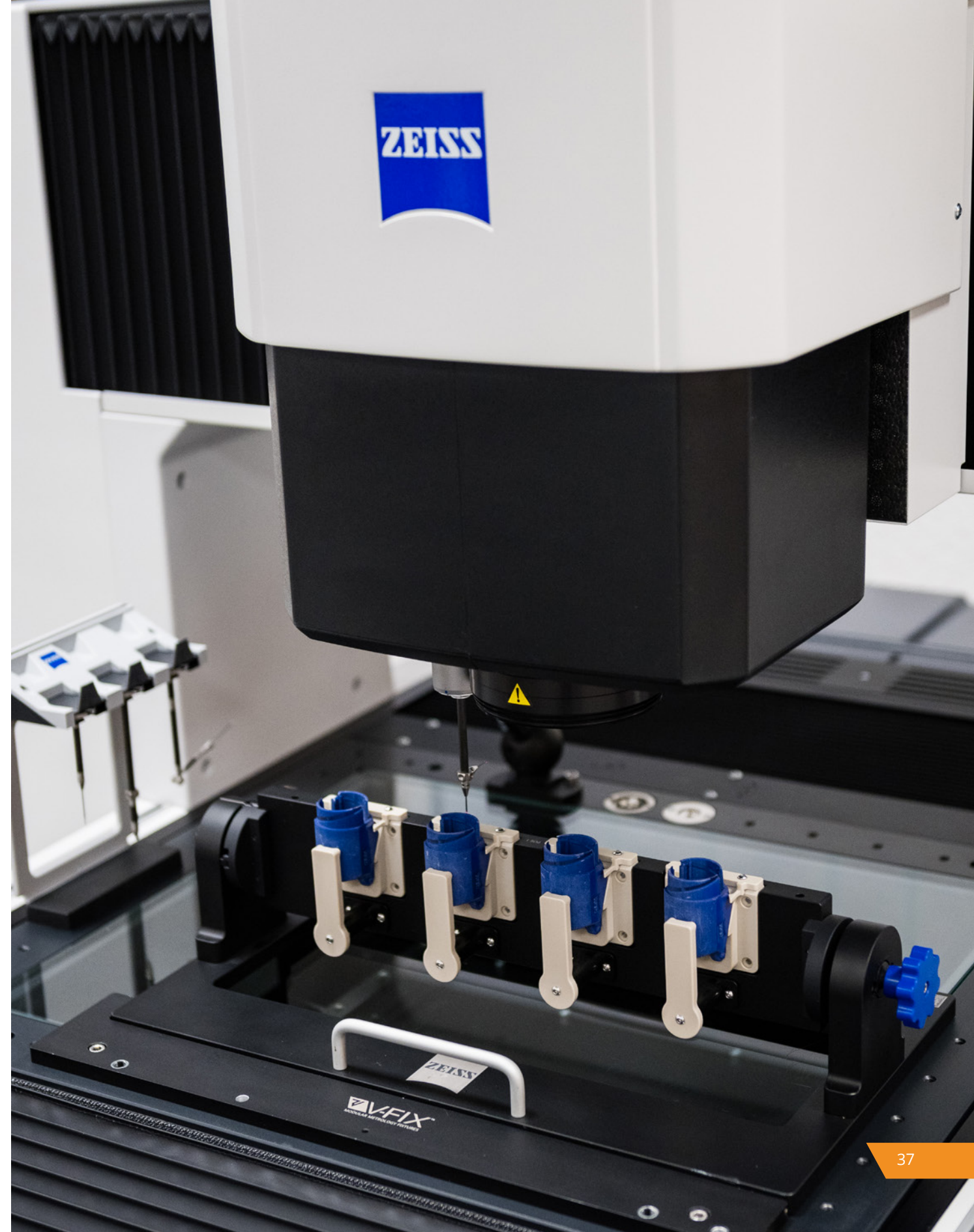
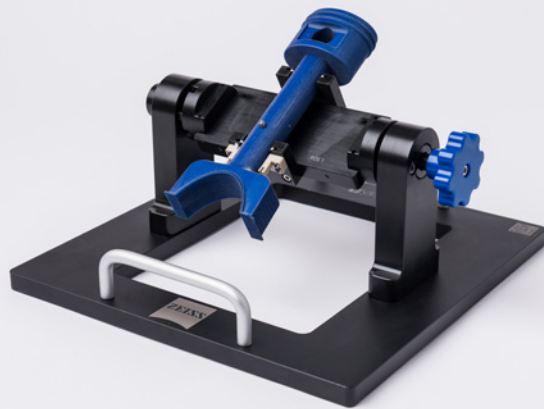
1. Custom fixturing holds components securely, ensuring stable and precise measurement conditions.
2. Automated inspection technology captures and analyses data with minimal operator intervention.
3. Real-time reporting and analytics enable immediate adjustments to maintain quality standards.

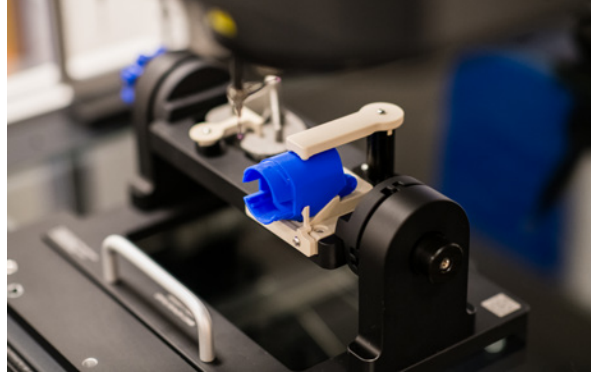


This system is ideal for manufacturers seeking to increase efficiency, improve measurement reliability, and reduce manual inspection times, ensuring production lines maintain the highest standards of precision and quality.



Verus Metrology Partners are global leaders in providing metrology solutions. We have teamed up with ZEISS to support their clients with advanced fixturing and metrology automation and training solutions.





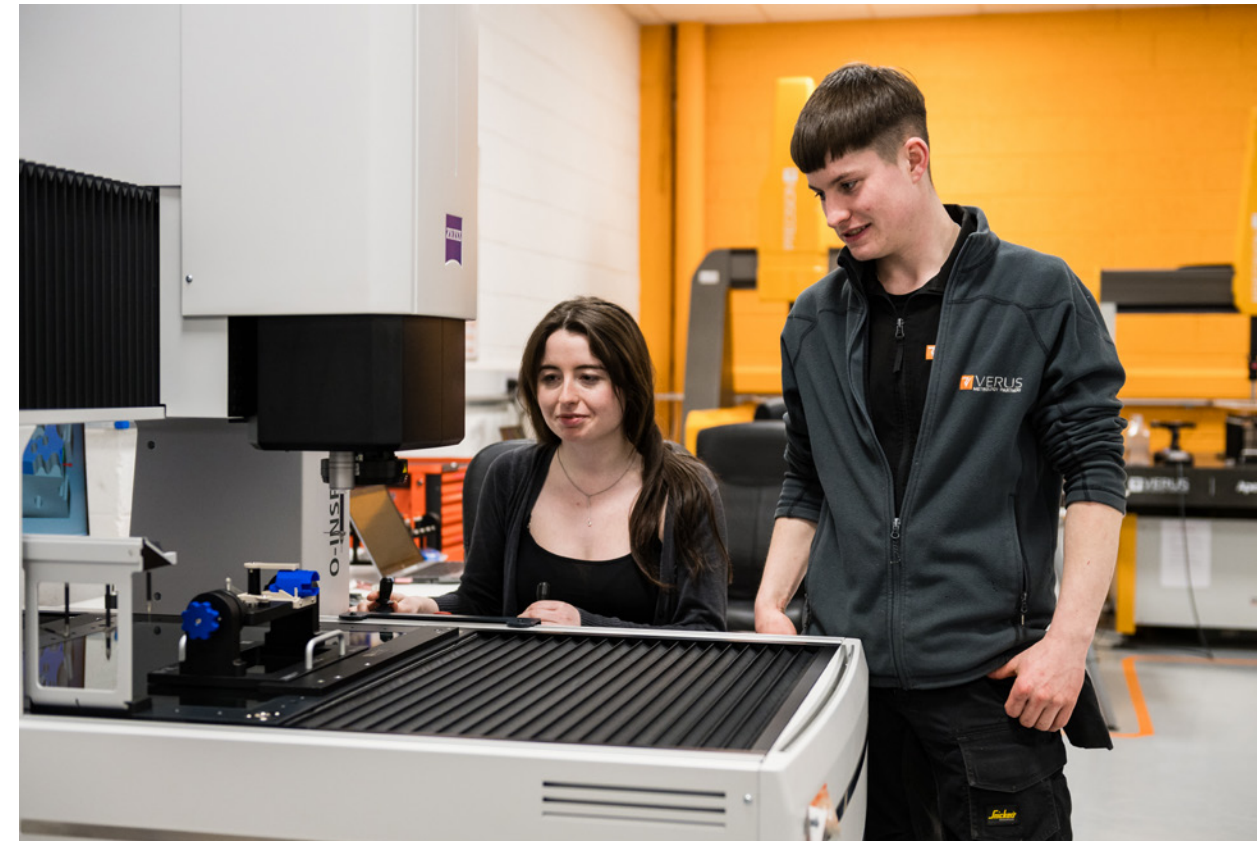
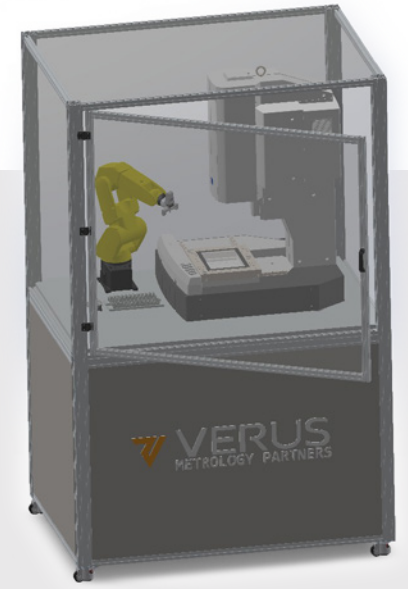
## ZEISS and Verus have partnered to combine their strengths in inspection technology and precision fixtures:

- ZEISS expertise in vision, laser, scanning, and CT systems
- Verus innovation in precision fixture solutions
- Unmatched accuracy and reliability
- Enhanced quality control and efficiency
- Key industries: patient safety, aerospace, consumer goods
- Driving innovation and industry advance

## Innovative partnering on fully integrated Automation System

### ZEISS O-INSPECT 3/2/2

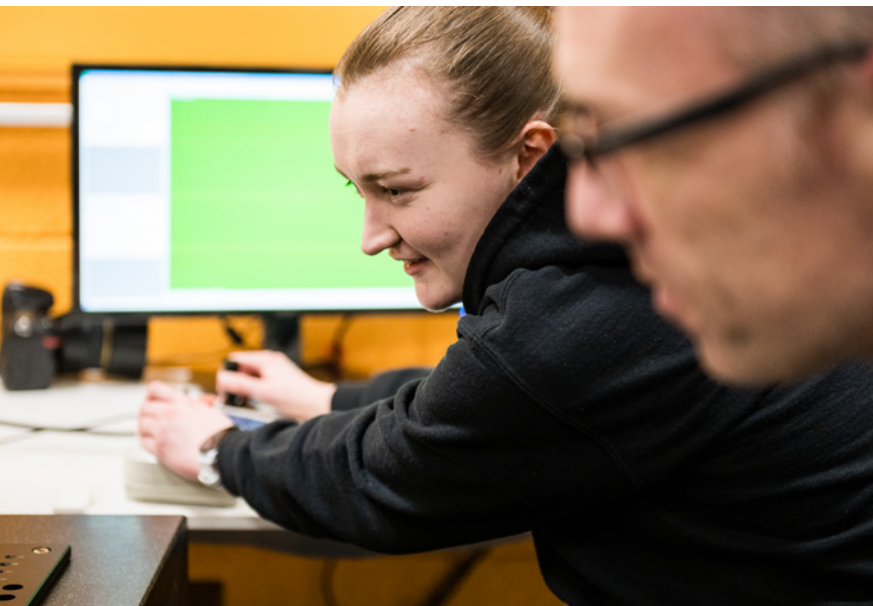
- Robot system with dual-use gripper
- Thermal protection cabin
- Drawer loading system
- Special spring-loaded part fixtures
- Rotary table with adapter for part-fixture
- Control cabinet with central HMI



## Our Training & Development Programme

Our commitment to both our employees and our clients drives us to always be at the forefront of metrology inspection technologies and this is reflected in constant investments in new equipment, software and training. All our Metrology Engineers are fully trained, and OEM certified through our in-house training and development programme that encompasses:

- In-house training and evaluation
- OEM training and certification – Basic and advanced CMM and Vision System training
- Statistical Process Control (SPC) using Minitab
- Geometric Dimensioning and Tolerancing (GD&T)



## Fixture Catalogue



Made custom to your project requirements

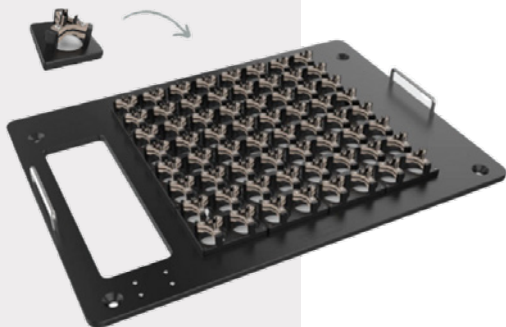
## Auto-Rotational Fixtures

Metrology fixtures that auto-rotate during the inspection routine to allow measurements to be taken in multiple orientations.



## Proof of Principle Multi-Station Prototype Fixtures

When designing a multi-station fixture, it is often necessary to create a proof of principle version, usually for verification and validation. At Verus Metrology, we produce single-station versions of multi-station fixtures for POP applications. All our POP prototype fixtures come with a complete gage R&R study, so are compliance, validation, and verification ready.



## Manual Rotator Fixtures

Similar to auto-rotational fixtures, except the operator uses a mechanism on the fixture to manually rotate the components or products.



## Vision System Solutions

Fixturing systems designed and optimised for vision systems and other non-tactile CMM inspection equipment.



## Multi-Station Fixtures

Fixtures that hold multiple components or products at the same time, speeding up inspection processes.



## Docking Systems

Docking systems can be fixed to CMM machines to make the process of loading fixtures faster and easier. Docking systems are particularly beneficial for quality departments that use multiple fixtures or where it is important to maximise the inspection performance of the CMM.

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# Get In Touch

To discuss your requirements or get further information on our services, please get in touch with us today.

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