

The FaroArm®
The world's best-selling
measurement arm



FARO



The FaroArm

The measuring arm with boundless possibilities

FARO is the market leader in portable computer-aided measurement systems. FARO measuring arms enable highly precise 3D measurements of both large and small parts in production. They are as accurate as large, expensive fixed-bed coordinate measuring machines (CMM), but are portable and much easier to use. Designed with your input and built with our experience, the Edge represents the latest generation of the FaroArm product line. With its built-in touchscreen and on-board operating system, the Edge revolutionises portable metrology by providing stand-alone basic measurement capability. These are just some of the reasons why the FaroArm is the world's best-selling measurement arms.



Versatile

Three models: Edge, Platinum and Fusion. FARO offers diverse mounting options and accessories tailored to your specific needs. This makes the FaroArm the simplest solution, even for the most difficult measurement tasks.



Cost effective

With performance that rivals large and costly fixed-bed coordinate measuring machines (CMM), scrap and costs can be reduced to a minimum.



Precise

Built-in smart sensors warn against excessive external loads, correct for thermal variations, and detect possible setup problems. They enable highly accurate measurements without the need for air-conditioned rooms thus delivering unmatched consistency of performance and accuracy.



Flexible

The FaroArm's lightweight construction, wireless data transfer capabilities, integrated battery and built-in touchscreen computer* enable laptop-free basic measurements to be taken wherever you need them.



* FARO Edge only



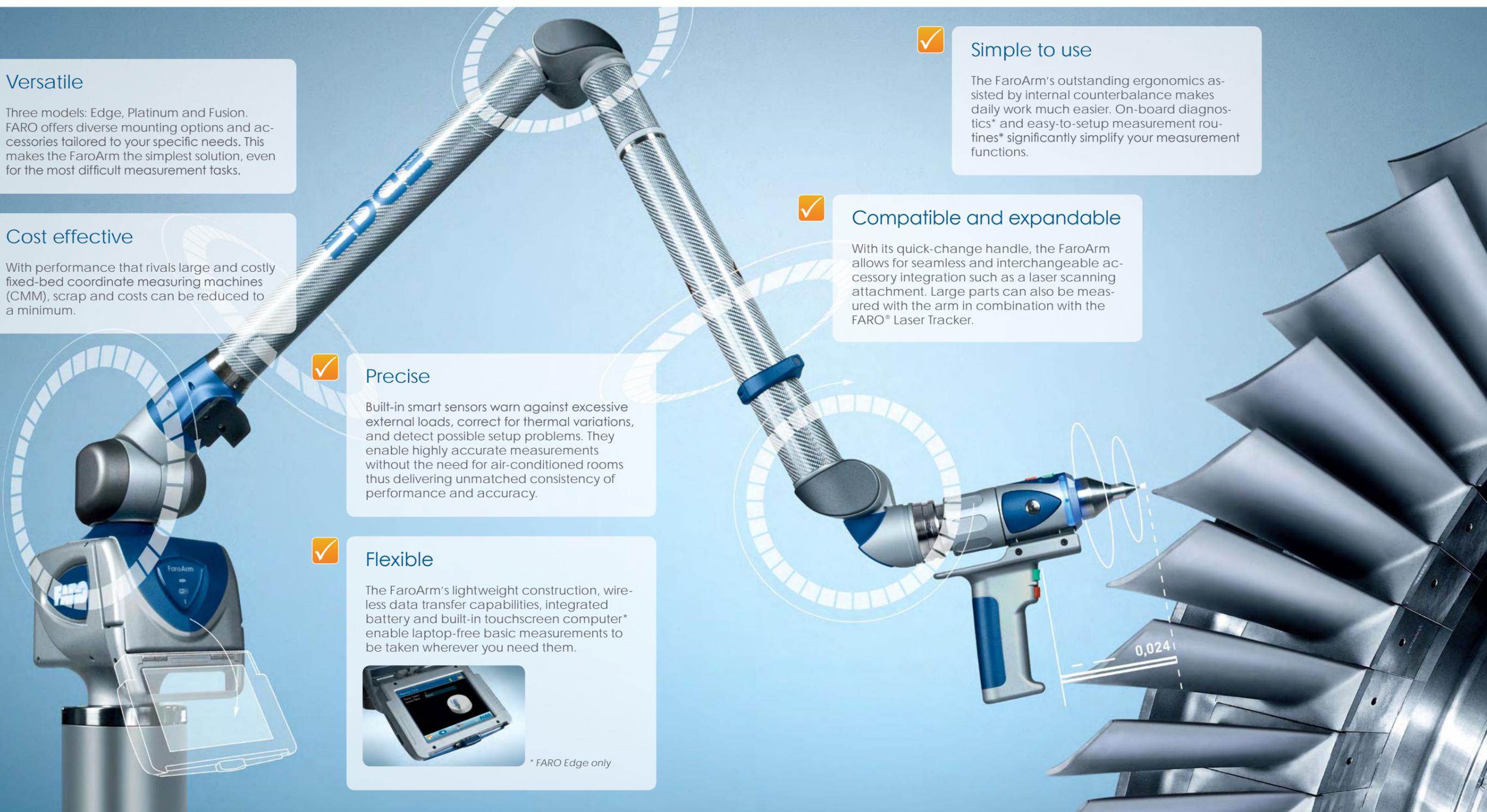
Simple to use

The FaroArm's outstanding ergonomics assisted by internal counterbalance makes daily work much easier. On-board diagnostics* and easy-to-setup measurement routines* significantly simplify your measurement functions.



Compatible and expandable

With its quick-change handle, the FaroArm allows for seamless and interchangeable accessory integration such as a laser scanning attachment. Large parts can also be measured with the arm in combination with the FARO® Laser Tracker.



The FaroArm

Measure everywhere

The flexibility of the FaroArm enables it to tackle multiple applications under one roof, allowing for quality improvements across all your processes resulting in time and production costs savings.

3 **Machine alignment**

Positioning of machines, fixtures and parts is crucial for the quality of finished products. The FaroArm can be mounted next to the manufacturing equipment to quickly and repeatedly verify tool alignment.



5 **On-machine inspection**

During the production process you can measure your parts directly on the machine, without the downtime resulting from tool setup or quality room inspections.



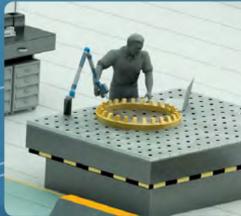
7 **Reverse Engineering/Prototyping**

Objects can be quickly scanned, digitized and converted to CAD models for rapid prototyping, as-built documentation or reproduction.



8 **Measurement room inspection**

Measurement bottlenecks can be reduced by using the FaroArm alongside traditional measurement equipment in environmentally controlled inspection rooms.



1 **Goods inwards inspection**

Supplier parts can be inspected directly upon arrival using the FaroArm.



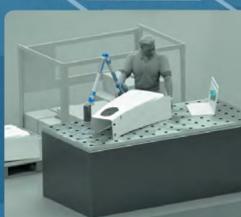
2 **Inspection of large parts**

Many parts are too large or heavy to be inspected by traditional measurement equipment. The FaroArm can be taken everywhere and be mounted next to or on the part to be measured for fast and accurate results.



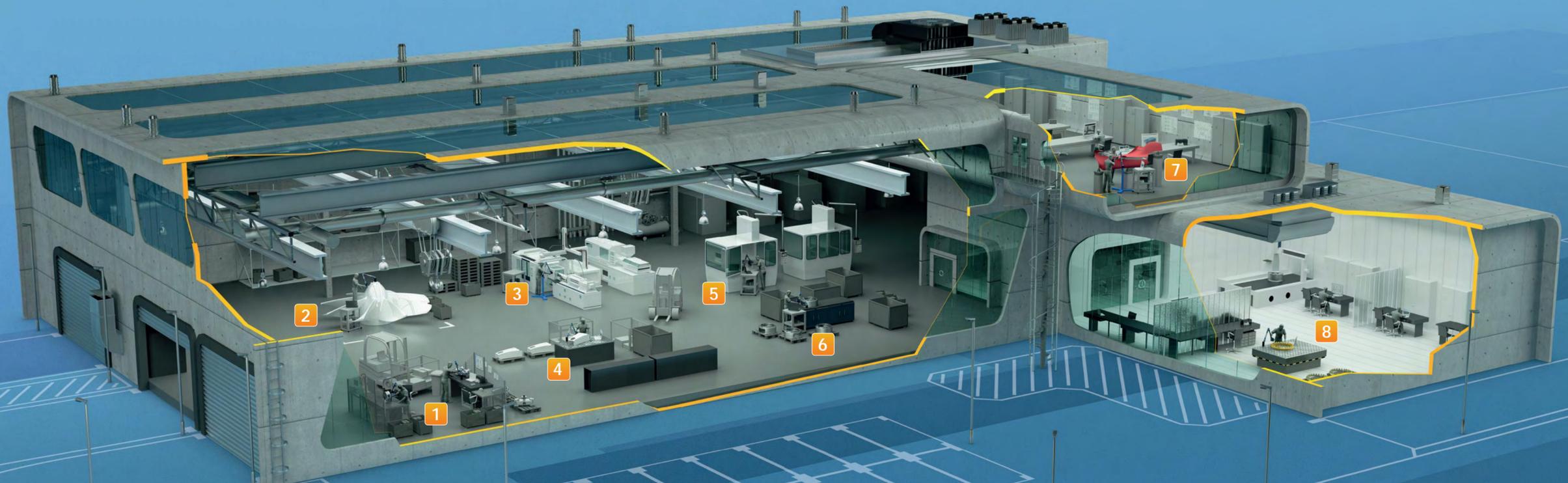
4 **CAD comparison**

Measurements captured with the FaroArm can be compared to nominal CAD data to instantly detect deviations. Soft, deformable and complex shapes can be easily scanned to verify features, 3D surfaces and 2D cross sections.



6 **Dimensional inspection**

Angles, prismatic features, distances, geometric and positional tolerances are easily checked with the FaroArm and the intuitive user interface of the CAM2 Q measurement software.



The FaroArm Technical data

FARO offers a wide range of options to suit your production needs. The FaroArm is available in three models – with different working volumes. A laser scanning attachment can be easily added to the 7-axes FaroArm turning it into a non-contact measurement solution.

Depending on your accuracy and measuring volume requirements, we provide the best solution for a wide range of applications including: alignment, calibration, inspection, reverse engineering, as-built documentation and CAD-to-part comparison.

Features

- 
For all measurement tasks
 Multiple measuring volumes, quick change handle* and multi-probe capability to tackle all of your inspection tasks
- 
Intuitive*
 Built-in touchscreen computer for laptop-free basic measurements. On-board diagnostics and easy-to-setup measurement routines
- 
Intelligent
 Integrated temperature compensation and rugged design
- 
Wireless data transfer
 Connectivity through Bluetooth, WiFi*, USB*, and Ethernet-ready* options
- 
One hand operation
 Patented internal counterbalancing, improved weight distribution and balance to reduce fatigue
- 
Unrestricted mobility
 Thanks to its low weight composite material construction and integrated battery

Benefits to end users

- Simplified user experience
- Enhanced ergonomics, less fatigue
- Quick measurements without a computer*
- Diagnose setup issues affecting performance*
- Improved reliability and capability

Typical applications

3D modelling, alignment, assembly inspection, calibration, mould inspection, geometry checks, on-machine inspection (OMI), part inspection, part-to-CAD comparison, rapid prototyping, retrofitting, reverse engineering, surface inspection, tool setup and positioning



FARO® Edge



Measurement volume	Repeatability ¹	Accuracy ²
6ft (1.8m)	0.024mm (0.0009in)	±0.034mm (±0.0013in)
9ft (2.7m)	0.029mm (0.0011in)	±0.041mm (±0.0016in)
12ft (3.7m)	0.064mm (0.0025in)	±0.091mm (±0.0035in)

* FARO Edge only



FaroArm® Fusion



Measurement volume	Repeatability ¹	Accuracy ²
6ft (1.8m)	0.036mm (0.0014in)	±0.051mm (±0.0020in)
8ft (2.4m)	0.043mm (0.0017in)	±0.061mm (±0.0024in)
10ft (3.0m)	0.074mm (0.0029in)	±0.104mm (±0.0041in)
12ft (3.7m)	0.104mm (0.0041in)	±0.147mm (±0.0058in)



The FARO® Edge ScanArm Non-contact measurement and scanning

FARO's Laser Line Probe (LLP) is the first scanning attachment which fully integrates with the 7-axes Edge measurement arm system, transforming it into the Edge ScanArm. Unlike other systems, measurements can be carried out with or without direct contact with the object ensuring uninterrupted workflow - eliminating the need for software or hardware adjustments. The Edge ScanArm is perfectly suited for CAD comparison and reverse engineering.

Software for FaroArm and FARO ScanArm Portable measurement software

The new software CAM2 Measure 10 meets customer demands. Our hardware and the new CAM2 Measure 10 were designed to make measuring and scanning processes easier. New features like the Live Colour Scan, Shortcuts or the Easy Move Wizard improve every process where measuring or scanning are needed.



FARO CAM2 Measure 10



Live Colour Scan

Thanks to Live Colour Scan, FARO's new point cloud inspection technology, CAM2 Measure 10 users are now able to quickly scan freeform parts using the ScanArm in a way never seen before. Users see a live color deviation on their CAD model as the part is being scanned, increasing the efficiency during the scan process.

Shortcuts

The new Shortcuts feature allows users to create new commands to measure features that are only available through combining measurements and constructions. Shortcuts empower you to record all steps of a complex measurement into a single command that can later be accessed with a single mouse click.

Easy Move Wizard

The Easy Move Wizard is a great assistance for measuring large parts when the need to reposition the device is often necessary to complete a measurement. The complexity of finding the correct target correspondence is taken away from the operator, cutting down on the time required for the repositioning and removing the risk of human errors.



Software options



Compatible with numerous software solutions

All FARO measurement systems can be used in conjunction with a broad range of third party software.



Some of our software partners

Aberlink, Carl Zeiss, Delcam, Dynalog, Geomagic, Innov-Metric Software, INUS Technology & Rapidform, metaio, Metrologic, Metromec, New River Kinematics, Robert McNeel & Associates (Rhino3d), Q-DAS, SolidWorks, TeZet, Verisurf Software



FARO Edge ScanArm



Precise*

The Edge ScanArm offers an accuracy of up to 0.069mm (0.0027in)



Integrated design

With its internal electronics and no external cables, measurements can be carried out everywhere - without restricting the arm's infinite rotation capabilities



Simple and ergonomic handling

Its low weight (222,4g) and ease-of-use enable fatigue-free work



Expanded coverage and high speed

With a laser stripe that is nearly 90mm, the laser line probe produces over 45,000 points of three-dimensional data per second using advanced CMOS technology

Typical applications

3D modelling, assembly inspection, certification, documentation, freeform surface measurement, inspection of deformable objects, part inspection, part-to-CAD comparison, rapid prototyping, reproductions, reverse engineering

*Detailed technical specifications can be found at www.measuring-arms.faro.com

Accessories for the FaroArm

Expand your possibilities

In addition to the FaroArm hardware and software, we also offer a broad range of supplementary equipment and accessories: probes, mounting options, tripods, measurement tables, computer, cables, adapters, tools, protective covers and transport cases.

Customer service

Training and worldwide service

FARO has worldwide customer support offices. Thus we can offer training and on-site services close to our customers. We are also ISO 9001:2001 certified and ISO-17025 laboratory registered.



Mounting options



Mount it where you need it

FARO offers diverse mounting options that allow for easy setup and ensure high flexibility when working with the FaroArm. Some of our most popular models are:

Mobile tripod:

Designed specifically for the FaroArm, the tripod features retractable wheels and can be easily folded for 'on-the-go' measurements.

Magnetic mount:

The magnetic mount lets you quickly setup the FaroArm on measurement plates, tools, or any metallic surface; even on the part itself.

Granite rolling cart:

The granite surface gives a solid work area for high accuracy metrology. Wheels on the heavy duty cart allow you to move it anywhere you need it. It also features arm mounting rings and a toe clamp kit for part fixturing.



Training



Courses for your employees

A measurement system is only as good as its user. That's why FARO offers training courses and workshops to ensure your operators make the most out of our products' features and benefits.

Whether you require basic or advanced training – we adapt our courses to the individual needs of the participants. Training is carried out in small groups at FARO or – if you wish – at your facilities to guarantee the individual attention our customers deserve.

If you have further questions for our product specialists you can ask them during our weekly Free Fridays.



Probes



The right probe for the right job

A wide selection of probes is available in different lengths and sizes for every measurement task.

Use standard hard probes for most applications. Use touch trigger probes for soft or flexible parts.



Customer service



Always there for you

On the phone:

Our customer service staff are available from 9am to 4pm from Monday to Friday. Freecall number: **00 800 3276 7378**

Online:

Tips and tricks are accessible in our Online Support Centre where you can also ask questions. Further information can be found at www.faro.com/uk/customerservice
Email: support@faro-europe.com

On-site:

Our application engineers will help you on-site.

Advantages of the service contract

The service contract includes maintenance, inspection and calibration of your FaroArm by our experts. In addition you will receive a 10% discount on all accessories and free re-certification, repair and advice.

FARO's customers

References from all over the world

"The FaroArm has given us measurement capability that would not be possible with a fixed CMM."

Lee Moffett, JSF Engineer, BAE Samlesbury

FARO's mission is to enable our customers' products and processes to be the best in the world. Our customers include automotive manufacturers and their suppliers, companies from the aerospace sector, tool and mould making, mechanical engineering, metalworking, heavy equipment, consumer goods, power generation enterprises, countless small businesses, public authorities, and monument conservation firms. In total we care for more than 10,000 customers.



BOMBARDIER



Miele



SIEMENS

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