The FaroArm®
The world’s best-selling measurement arm
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.

- **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.

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

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.

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

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

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.

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.

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

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.

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 cost savings.
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.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits to end users</th>
<th>Typical applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>For all measurement tasks</td>
<td>SOSimplified user experience</td>
<td>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</td>
</tr>
<tr>
<td>Wireless data transfer</td>
<td>· Enhanced ergonomics, less fatigue</td>
<td></td>
</tr>
<tr>
<td>Repeatability = Single point articulation performance test</td>
<td>· Quick measurements without a computer*</td>
<td></td>
</tr>
<tr>
<td>Accuracy = Volumetric maximum deviation</td>
<td>· Diagnose setup issues affecting performance*</td>
<td></td>
</tr>
<tr>
<td>FARO® Edge</td>
<td>· Improved reliability and capability</td>
<td></td>
</tr>
<tr>
<td>FaroArm® Fusion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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

### Technical data

<table>
<thead>
<tr>
<th>Measurement volume</th>
<th>Repeatability</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>6ft (1.8m)</td>
<td>0.024mm (0.0009in) ±0.028mm (±0.0011in)</td>
<td></td>
</tr>
<tr>
<td>9ft (2.7m)</td>
<td>0.029mm (0.0011in) ±0.043mm (±0.0017in)</td>
<td></td>
</tr>
<tr>
<td>12ft (3.7m)</td>
<td>0.064mm (0.0025in) ±0.091mm (±0.0035in)</td>
<td></td>
</tr>
</tbody>
</table>

* FARO Edge only

* Detailed technical specifications can be found at www.measuring-arms.faro.com. 1) Repeatability = Single point articulation performance test. 2) Accuracy = Volumetric maximum deviation.
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.

**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.

**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, InnovMetric Software, INUS Technology & Rapidform, mettis, Metrologic, Metromec, New River Kinematics, Robert McNeel & Associates (Rhino3d), Q-DAS, SolidWorks, TeZet, Verisurf Software
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.

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.

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.

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@faroeurope.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.

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.
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.

“FaroArm has given us measurement capability that would not be possible with a fixed CMM.”
Lee Moffett, JSF Engineer, BAE Samlesbury