

# FaroArm® Quantum



## **NEW – Up to 30% Higher Performance**

*The only portable measurement arm with up to 0.0006in. (0.016mm) precision.*

## **NEW – Bluetooth® Cable-Free Operation**

*Inspect and digitise wirelessly up to 10m (30ft.) away.*

## **NEW – Exclusive FARO i-Probe**

*Individually serialised with automatic size recognition and built-in probe temperature sensor.*

## **NEW – Auto Sleep Mode**

*Automatically turn off unit to save energy and extend component life.*

## **NEW – Ergonomic Handle for 6- & 7-Axis Models**

*Improves ease-of-use, comfort and measurement effectiveness.*

## **NEW – Universal Quick Mount**

*Adds mounting flexibility while reducing setup time.*

## One Step Closer to Perfection!

True to our commitment of making our customers' products and processes the best in the world, FARO once again delivers the most advanced portable measurement arm ever – the FaroArm Quantum. The FaroArm Quantum is the ideal tool for completing surface measurements and dimensional calculations to the highest degree of precision. Perform CAD analysis, inspections, and alignments with ease.

## Most Common Applications

**Aerospace:** Alignment, tooling & mould certification, part inspection • **Automotive:** Tool building & certification, alignment, part inspection • **Metal fabrication:** OMI, first article inspection, periodic part inspection • **Moulding/tool & die:** Mould and die inspection, prototype part scanning

## Features

- ▶ Also available in 6-axis configuration
- ▶ Infinite rotation for non-stop measuring
- ▶ Composite material construction



## Performance Specifications

Model (Measuring range)	Single point articulation performance test (Max-Min)/2		Volumetric maximum deviation		FaroArm weight	
	6 axes	7 axes	6 axes	7 axes	6 axes	7 axes
Quantum 1.8m (6ft.)	0.016mm (0.0006in.)	0.019mm (0.0007in.)	±0.023mm (±0.0009in.)	±0.027mm (±0.0011in.)	9.3kg (20.5lbs.)	9.5kg (21lbs.)
Quantum 2.4m (8ft.)	0.018mm (0.0007in.)	0.020mm (0.0008in.)	±0.025mm (±0.0010in.)	±0.028mm (±0.0011in.)	9.5kg (21lbs.)	9.75kg (21.5lbs.)
Quantum 3.0m (10ft.)	0.032mm (0.0013in.)	0.039mm (0.0015in.)	±0.046mm (±0.0018in.)	±0.055mm (±0.0022in.)	9.75kg (21.5lbs.)	9.98kg (22lbs.)
Quantum 3.7m (12ft.)	0.043mm (0.0017in.)	.051mm (0.0020in.)	±0.060mm (±0.0024in.)	±0.072mm (±0.0028in.)	9.98kg (22lbs.)	10.21kg (22.5lbs.)

FaroArm Test Methods - (Test methods are a subset of those given in the B89.4.22 standard.) Single Point Articulation Performance Test (Max-Min)/2: The probe of the FaroArm is placed within a conical socket, and individual points are measured from multiple approach directions. Each individual point measurement is analysed as a range of deviations in X, Y, Z. This test is a method for determining articulating measurement machine repeatability. Volumetric Maximum Deviation: Determined by using traceable length artifacts, which are measured at various locations and orientations throughout the working volume of the FaroArm. This test is a method for determining articulating measurement machine accuracy.

## Hardware Specifications

**Operating temp range:** 10°C - 40°C (50°F - 104°F)

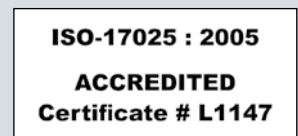
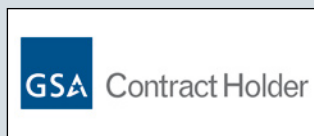
**Temperature rate:** 3°C/5min. (5.4°F/5min.)

**Operating humidity range:** 95%, noncondensing

**Power supply:** Universal worldwide voltage, 85-245VAC, 50/60Hz

**Certifications:** MET (UL, CSA Certified) • CE compliance • Directive 93/68/EEC, (CE Marking) • Directive 89/336/EEC, (EMC) • FDA CDRH, Subchapter J of 21 CFR 1040.10 • Electrical Equipment for Measurement, Control & Lab Use • EN 61010-1:2001, IEC 60825-1, EN 61326 • Electromagnetic Compatibility (EMC) • EN 55011, EN 61000-3-2, EN 61000-3-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

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