

# Quantum FaroArm



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

*The only portable measurement arm with up to .0006in. (.016mm) precision*

## **NEW – Exclusive FARO i-Probe**

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

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

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

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

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

## **NEW – Auto Sleep Mode**

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

## **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 arm CMM ever — the **QUANTUM FaroArm**. With a combination of features not found on any other device, the Quantum FaroArm has the power to take metrology — and your business — where it has never gone before.

### Most Common Applications

**Aerospace:** Alignment, Tooling & Mold Certification, Part Inspection

**Automotive:** Tool Building & Certification, Alignment, Part Inspection

**Metal Fabrication:** OMI, First article inspection, Periodic Part Inspection

**Molding/Tool & Die:** Mold 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) axis	Single Point Articulation Performance Test (Max-Min)/2		Volumetric Maximum Deviation		FaroArm Weight	
	6	7	6	7	6	7
<b>6 ft.</b> (1.8 m)	<b>.0006 in.</b> (.016 mm)	<b>.0007 in.</b> (.019 mm)	<b>±.0009 in.</b> (±.023 mm)	<b>±.0011 in.</b> (±.027 mm)	<b>20.5 lbs.</b> (9.3 kg)	<b>21 lbs.</b> (9.5 kg)
<b>8 ft.</b> (2.4 m)	<b>.0007 in.</b> (.018 mm)	<b>.0008 in.</b> (.020 mm)	<b>±.0010 in.</b> (±.025 mm)	<b>±.0012 in.</b> (±.028 mm)	<b>21 lbs.</b> (9.5 kg)	<b>21.5 lbs.</b> (9.75 kg)
<b>10 ft.</b> (3.0 m)	<b>.0013 in.</b> (.032 mm)	<b>.0015 in.</b> (.039 mm)	<b>±.0018 in.</b> (±.046 mm)	<b>±.0022 in.</b> (±.055 mm)	<b>21.5 lbs.</b> (9.75 kg)	<b>22 lbs.</b> (9.98 kg)
<b>12 ft.</b> (3.7 m)	<b>.0017 in.</b> (.043 mm)	<b>.0020 in.</b> (.051 mm)	<b>±.0024 in.</b> (±.060 mm)	<b>±.0028 in.</b> (±.072 mm)	<b>22 lbs.</b> (9.98 kg)	<b>22.5 lbs.</b> (10.21 kg)

**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 analyzed 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:**  
**Temperature Rate:**  
**Operating Humidity Range:**

10°C to 40°C (50°F to 104°F)  
3°C/5min. (5.4°F/5min. Max)  
0-95%, noncondensing

**Power Supply:**

Universal worldwide voltage  
85-245VAC,  
50/60 Hz

**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**



ISO-17025 : 2005  
ACCREDITED  
Certificate # L1147