



Fusion FaroArm



NEW – Higher Performance, Greater Value

15% Performance improvement over its predecessor the Titanium FaroArm

Temperature Sensors

Located in each joint, they allow the Arm to react to thermal variations for maximum accuracy and portability

NEW - Auto Sleep Mode

Automatically turn off unit to save energy and extend component life

NEW - Bluetooth® Cable-Free Operation

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

Internal Counterbalance

Internal counter balancing provides comfortable stress-free usage

Multi-Probe Capability

Including various Ball Diameters, Curved and Extended Probes

Universal 3.5" Quick Mount

Universal 3.5" quick-mount offers "Mount-itwhere-you-make-it" convenience and less downtime

Quality Without Compromise

To make your products and processes the best in the world, there isn't another portable CMM that combines the precision, durability, technology and cost-effectiveness of the Fusion FaroArm®. Higher accuracy, yet lower cost than the Titanium – with all the style of the top-of-the line Quantum FaroArm – the Fusion is the economical, all-in-one portable tool for performing inspections, tool certification, CAD-to-Part analysis, or reverse engineering.

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

- ▶ Optional 7-Axis Availability
- ▶ Infinite Rotation for Non-Stop Measuring
- Extended-Use Battery
- ▶ Available in Four Working Volumes
- ▶ Composite Material Construction



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Performance Specifications

Model (Measuring Range)	Single Point Articulation Performance Test (Max-Min)/2		Volumetric Maximum Deviation		FaroArm Weight	
axis	6	7	6	7	6	7
Fusion 6 ft. (1.8 m)	. 0014 in. (.036 mm)	. 0018 in. (.046 mm)	±.0020 in. (±.051 mm)	±.0025 in. (±.064 mm)	20.5 lbs. (9.3 kg)	21 lbs. (9.5 kg)
Fusion 8 ft. (2.4 m)	. 0017 in. (.043 mm)	. 0020 in. (.051 mm)	±.0024 in. (±.061 mm)	±.0028 in. (±.071 mm)	21 lbs. (9.5 kg)	21.5 lbs. (9.75 kg)
Fusion 10 ft. (3.0 m)	. 0029 in. (.074 mm)	. 0035 in. (.089 mm)	±.0041 in. (±.104 mm)	±.0049 in. (±.124 mm)	21.5 lbs. (9.75 kg)	22 lbs. (9.98 kg)
Fusion 12 ft. (3.7 m)	.0041 in. (.104 mm)	.0049 in. (.124 mm)	±.0058 in. (±.147 mm)	±.0069 in. (±.175 mm)	22 lbs. (9.98 kg)	22.5 lbs. (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: 10°C to 40°C (50°F to 104°F) **Operating Humidity Range:** 0-95%, noncondensing

Temperature Rate: 3°C/5min. (5.4°F/5min. Max) **Power Supply:** Universal worldwide voltage

85-245VAC, 50/60 Hz

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 Certifications:

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

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