

# Platinum FaroArm



## Temperature & Overload Sensors

Located in each joint, they allow the Arm to “feel” and react to thermal variations and improper handling for maximum accuracy

## Lightweight Construction

High-strength, lightweight construction for total portability and true “measure anywhere” performance

## Optional 7-Axis Availability

Provides an additional Axis of Rotation for non-contact Laser Line Probes or curved probes

## Internal Counterbalancing

Internal counter balancing provides comfortable stress-free usage

## Multi-Probe Capability

Including various Ball Diameters, Touch-Sensitive, Curved and Extensions

## Extended-Use Battery

Integrated extended-use battery Provides true “measure anywhere” capability

## Universal 3.5” Quick Mount

Universal 3.5” quick-mount offers “Mount-it-where-you-make-it” convenience and less downtime

## The Best-Selling Portable CMM!

The Platinum FaroArm’s high accuracy renders traditional CMMs, hand tools and other portable inspection equipment obsolete. Anyone, anywhere can now inspect, reverse engineer or perform CAD-to-Part-analysis on parts, fixtures and assemblies with previously unheard of precision. When you partner that accuracy with its adaptable 3-D measurement technology and customized zero-training SoftCheck Tools (with or without CAD), it is ideal for forming, molding, fabricating, casting and assembly facilities needing basic 3-D measurements or advanced GD&T and SPC output.

## 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

- ▶  $\pm 0.13$  mm Repeatability
- ▶ 7-Axis Availability
- ▶ 6-Degrees-of-Freedom Probe
- ▶ Adaptable 3-D Measurement Technology
- ▶ Space-Age Composite Construction

# Platinum FaroArm



## Performance Specifications

| Model<br>(Measuring Range)<br>axis | Single Point Articulation<br>Performance Test (Max-Min)/2 |                          | Volumetric<br>Maximum Deviation |                          | FaroArm<br>Weight      |                         |
|------------------------------------|---|--------------------------|---------------------------------|--------------------------|------------------------|-------------------------|
|                                    | 6   | 7                        | 6                               | 7                        | 6                      | 7                       |
| Platinum<br>4 ft. (1.2 m)          | ±.0005 in.<br>(±.013 mm)                                  | ±.0007 in.<br>(±.018 mm) | ±.0007 in.<br>(±.018 mm)        | ±.0010 in.<br>(±.025 mm) | 20.0 lbs.<br>(9.10 kg) | 20.5 lbs.<br>(9.30 kg)  |
| Platinum<br>6 ft. (1.8 m)          | ±.0008 in.<br>(±.020 mm)                                  | ±.0010 in.<br>(±.026 mm) | ±.0011 in.<br>(±.029 mm)        | ±.0015 in.<br>(±.037 mm) | 20.5 lbs.<br>(9.30 kg) | 21 lbs.<br>(9.30 kg)    |
| Platinum<br>8 ft. (2.4 m)          | ±.0010 in.<br>(±.025 mm)                                  | ±.0012 in.<br>(±.030 mm) | ±.0014 in.<br>(±.036 mm)        | ±.0017 in.<br>(±.043 mm) | 21.0 lbs.<br>(9.5 kg)  | 21.5 lbs.<br>(9.75 kg)  |
| Platinum<br>10 ft. (3.0 m)         | ±.0017 in.<br>(±.043 mm)                                  | ±.0020 in.<br>(±.052 mm) | ±.0024 in.<br>(±.061 mm)        | ±.0029 in.<br>(±.073 mm) | 21.5 lbs.<br>(9.75 kg) | 22 lbs.<br>(9.98 kg)    |
| Platinum<br>12 ft. (3.7 m)         | ±.0024 in.<br>(±.061 mm)                                  | ±.0029 in.<br>(±.073 mm) | ±.0034 in.<br>(±.086 mm)        | ±.0041 in.<br>(±.103 mm) | 22.0 lbs.<br>(9.98 kg) | 22.5 lbs.<br>(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

**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

