

STINGER Ili

STINGER Ili configuration includes:

- STINGER Ili portable CMM in choice of 1.8-, 2.4-, 3.0-, or 3.6-meter measuring length.
- 15 mm ball, 6 mm ruby tip, point tip probes.
- WinRDS™ software.
- NIST-traceable certified length standard.
- One-year warranty.
- Carrying case.



Options:

- Magnetic base.
- Battery pack.
- Vacuum mount.
- Laser scanner.
- Mobile inspection station.
- Inspection stands.
- Large variety of probes.

The STINGER Ili™ portable CMM is your cost-effective solution for inspection, measuring and reverse engineering challenges, with powerful new features such as infinite rotation and integrated counterbalance! Features include:

Patented *INFINITE ROTATION* of principle axes allows inspection of hard-to-reach areas and avoids damaging the arm against rotational hard stops.

Intelligent quick-change probes changeable on-the-fly without tools or the need to re-calibrate. The system automatically recognizes and compensates for the type of probe installed. This saves a significant amount of time during the inspection process.

Integrated ZERO-G™ counterbalance offsets the weight of the arm and probe, thereby reducing operator fatigue and allowing one-handed operation.

Carbon fiber composite arms that are stronger than steel and dimensionally stable regardless of temperature. The arms come with a lifetime warranty on these carbon fiber tubes.

Ultra-portable design, weighing 3.6 to 4.5 kg allows the arm to be moved easily throughout a job site.

Field calibration - we provide a NIST-traceable calibrated length standard with its portable CMMs. This allows the operator to easily verify and document system performance to meet ISO requirements.



STINGER Ili Specifications

Six Axis

STINGER Ili	1.8 m 6 ft.	2.4 m 8 ft.	3.0 m 10 ft.	3.6 m 12 ft.
Point Repeatability	(±) 0.040 mm (±) 0.0015 in.	(±) 0.050 mm (±) 0.0019 in.	(±) 0.080 mm (±) 0.0031 in.	(±) 0.110 mm (±) 0.0043 in.
Length Accuracy	(±) 0.055 mm (±) 0.0021 in.	(±) 0.070 mm (±) 0.0027 in.	(±) 0.110 mm (±) 0.0043 in.	(±) 0.155 mm (±) 0.0061 in.
Arm Weight	3.6 kg 8 lbs.	4.1 kg 9 lbs.	4.3 kg 9.5 lbs.	4.5 kg 10 lbs.

IMPORTANT NOTES (specifications are ±)

Point Repeatability Test (also known as Single Point Articulation Test, or S.P.A.T.): Results analyzed via Range/2 method. The probe is placed within a trihedral seat or conical socket, and individual points are measured from multiple approach angles with maximum articulation of all of the principal joints. Each individual point measurement is analyzed as a range of deviations about the average value for the point locations. This test is intended to assess the arm's ability to provide similar values of a point coordinate, when the arm is articulated through the maximum possible range of motion for that single point.

Volumetric Length Accuracy Test (Volumetric Performance Test): Results analyzed via Range/2 method. Volumetric length accuracy is determined by using certified length standards (included with all arms) that are measured at various locations and orientations throughout the measuring volume of the arm. This test most accurately represents the reasonable expectations for machine performance in practical measuring applications. The Volumetric Length Accuracy Test is the most appropriate test for determining machine accuracy and repeatability since it involves measuring a certified length standard many times in several locations and orientations and compares the resultant measurements to the actual length.

Specifications determined in laboratory environment with experienced operators. Specifications are subject to change without notice. Check with your salesman or our website for up-to-date information.

Common Engineering Specifications

Humidity: Relative Humidity from 5% to 95%, Non-Condensing

Permissible Angular Acceleration: 105 rad/ S²

Vibration: (55 to 2000Hz): < 100 ms / S² EN 60 068-2-6

Shock & Impact: 6ms (IEC 68-2-27), <1000 ms / S² EN60 068-2-27

Power Supply: Universal worldwide voltage 110-240

Certification: CE Compliant

EMC, Electromagnetic Compatibility

Directive 89/336/EEC, 92/31/EEC, 93/68/EEC

EN 61326-1 (1997), Group 1, Class "A"

EC 1000-4-2, 3, 4, 5, 6 (1995), IEC 1000-4-11 (1995)

EN61000-3-2, EN61000-3-3

Low Voltage Directive 73/23/EEC, 93/68/EEC

EN 61010-1:1993 (includes A1) + A2: 1995