CimCore Arm Specifications

All specifications are ±

INFINITE
Six axis configuration

INFINITE	1.2 m 4 ft.	1.8 m 6 ft.	2.4 m 8 ft.	2.8 m 9 ft.	3.0 m 10 ft.	3.6 m 12 ft.
Point Repeat-ability	0.010 mm 0.0004 in.	0.016 mm 0.0006 in.	0.020 mm 0.0008 in.	0.029 mm 0.0011 in.	0.034 mm 0.0013 in.	0.050 mm 0.0020 in.
Length Accuracy	0.016 mm 0.0006 in.	0.023 mm 0.0009 in.	0.029 mm 0.0011 in.	0.041 mm 0.0016 in.	0.050 mm 0.002 in.	0.068 mm 0.0027 in.
Arm Weight	6.89 kg 15.18 lbs.	7.57 kg 16.68 lbs	7.82 kg 17.24 lbs.	7.97 kg 17.57 lbs.	8.22 kg 18.1 lbs.	8.65 kg 19 lbs.

INFINITE
Seven axis configuration

INFINITE SC	1.8 m 6 ft.	2.4 m 8 ft.	2.8 m 9 ft.	3.0 m 10 ft.	3.6 m 12 ft.
Point Repeatability	0.024 mm 0.0009 in.	0.028 mm 0.0011 in.	0.045 mm 0.0018 in.	0.050 mm 0.0020 in.	0.070 mm 0.0028 in.
Length Accuracy	0.035 mm 0.0014 in.	0.040 mm 0.0016 in.	0.064 mm 0.0025 in.	0.071 mm 0.0028 in.	0.100 mm 0.0040 in.
Arm Weight	8.05 kg 17.74 lbs.	8.33 kg 18.36 lbs.	8.50 kg 18.73 lbs.	8.85 kg 19.51 lbs.	9.13 kg 20.12 lbs.

STINGER IIi
Six axis configuration

STINGER IIi	2.4 m 8 ft.	3.0 m 10 ft.	3.6 m 12 ft.
Point Repeatability	0.050 mm 0.0019 in.	0.080 mm 0.0031 in.	0.110 mm 0.0043 in.
Length Accuracy	0.070 mm 0.0027 in.	0.110 mm 0.0043 in.	0.155 mm 0.0061 in.
Arm Weight	4.1 kg 9 lbs.	4.3 kg 9.5 lbs.	4.5 kg 10 lbs.

STINGER II
Six axis configuration

STINGER II	1.8 m 6 ft.	2.4 m 8 ft.	3.0 m 10 ft.	3.6 m 12 ft.	4.6 m 15 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.	0.200 mm 0.0079 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.	0.285 mm 0.0112 in.
Arm Weight	3.6 kg 8 lbs.	4.1 kg 9 lbs.	4.3 kg 9.5 lbs.	4.5 kg 10 lbs.	5.4 kg 12 lbs.

IMPORTANT NOTES (*All 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 Accelertion: 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