



CRYSTA-Apex V203016

Item number: 191-813H

Images

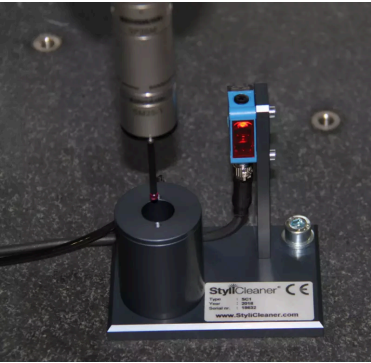
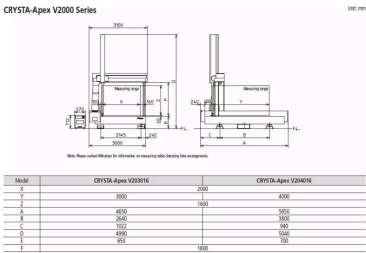


Accuracy

	SP20M	MPP310Q ¹	SPM ¹	TP20M
Probe configuration	Module	—	—	STANDARD FORCE
Module	SMC5-1	—	—	—
Probe length	ø4 x 50	ø4 x 16	ø4 x 50	ø4 x 10
Length measurement error (µm)	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000
Temperature environment 1 ²	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000
Length measurement error (µm)	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000
Temperature environment 2 ²	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000	4.5 + R/1000
Repeatability (µm)	4.5	4.5	4.5	4.5
Scanning mode form error (µm)	6.0	6.0	6.0	6.0
Scanning mode time (s)	60	60	60	60
Single stylus form error (µm)	6.0	6.0	6.0	6.0
Single stylus form error (µm)	6.0	6.0	6.0	6.0

Testing and evaluation methods for form, location and feature are as per ISO 10362-2:2009 (S 9 7445-2:2013).
Testing and evaluation methods for form, location and feature are as per ISO 10362-2:2009 (S 9 7445-2:2013).
L = Measuring length (mm).
*1 Available by custom order only. *2 See below table for temperature environments 1 and 2.

Temperature environment	
Temperature range	Temperature environment 1
18 to 22 °C	18 to 24 °C
Rate of change	2 °C per hour
Gradient	2 °C in 24 hours
	1 °C per meter (both vertically and horizontally)



Description

The CRYSTA-Apex V1200, 1600 & 2000 series offers you up to 12,8m³ measuring volume and still keeps an excellent 4,5 µm accuracy or better.

This series is developed for supporting quality evaluation of volumetric parts. This high performance, cost effective coordinate measuring machine, designed and constructed according to Mitutoyo's extensive experience in CNC CMM technology.

Ready for touch trigger probe, scanning probe, optical probe and laser scanner probe.

Main benefits:

- Proven lightweight bridge-type construction with high rigidity air-bearings on every axis
- High accuracy, high speed and high acceleration
- Temperature sensors for compensation of machine and workpiece from 16° to 24°C and monitoring of the environmental temperature.
- ABS linear scales provide high environmental resistance and saves time at start-up as homing is not necessary
- UC480 controller supporting Multi-sensor and SMS functionality (Smart Measuring System)

Specification

Model:	CRYSTA-Apex V203016
Model:	CRYSTA-Apex V203016
Range:	2000 x 3000 x 1600 mm
Accuracy:	E0, MPE from (4,5+0,8L/100)µm
Max. drive speed:	693 mm/s (3-axis)
Digital step:	0.1 µm