



CRYSTA-Apex V162016

Item number: 191-849H

Images



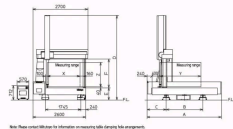
Accuracy		SP30M		MPP1102 ¹⁾		EM01 ¹⁾		T2000	
Probe configuration	Probe	SDCS-1		45° x 10		45° x 10		SDMEAS120C1	
	Module	45° x 10		45° x 10		45° x 10		45° x 10	
Z-axis measuring range (mm)	Stroke	1200		1200		1200		1200	
	Temperature environment 2 ^{o)}	13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)	
Length measurement error (mm)	Stroke	13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)	
	Temperature environment 2 ^{o)}	13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)	
Length measurement error (mm)	Stroke	13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)	
	Temperature environment 2 ^{o)}	13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)		13 + 45,7000 (45 + 55,7000)	
Repeatability (µm in 1 s)	Stroke	3.3		4.5		4.5		6.0	
	Temperature environment 2 ^{o)}	3.3		4.5		4.5		6.0	
Squaring error (mm error on sphere measurement)		0.0		0.0		0.0		0.0	
Squaring error (mm error on sphere measurement)		0.0		0.0		0.0		0.0	
Single datum form error (mm error on sphere)		5.0		6.0		6.0		6.0	
Single datum form error (mm error on sphere)		5.0		6.0		6.0		6.0	

1) Available by custom order only. 2) See below table for temperature environments 1 and 2.

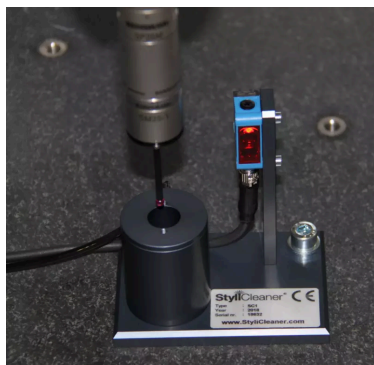
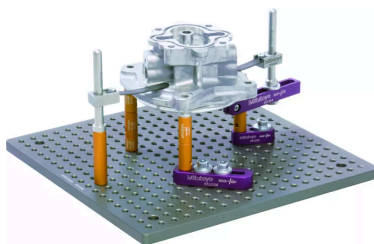
Temperature environment		Temperature environment 1		Temperature environment 2	
Accuracy guaranteed conditions	Temperature range	10 to 22 °C		10 to 24 °C	
	Rate of change	2 °C per hour		2 °C per hour	
Gradient	Rate of change	1 °C per hour		1 °C per hour	
	Gradient	1 °C per hour		1 °C per hour	

External dimensions

CRYSTA-Apex V1600 Series



Model	CRYSTA-Apex V1600T1	CRYSTA-Apex V1600T2	CRYSTA-Apex V1600T3	CRYSTA-Apex V1600T4	CRYSTA-Apex V1600T5	CRYSTA-Apex V1600T6
X	1200	1200	1200	1200	1200	1200
Y	1200	1200	1200	1200	1200	1200
Z	1200	1200	1200	1200	1200	1200
W	1200	1200	1200	1200	1200	1200
D	400	400	400	400	400	400
T	1200	1200	1200	1200	1200	1200



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 V162016
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Range:	1600 x 2000 x 1600 mm
Accuracy:	E0, MPE from: (3,3+0,45L/100) µm
Max. drive speed:	693 mm/s (3-axis)
Model:	CRYSTA-Apex V 162016
Digital step:	0.1 µm