



CRYSTA-Apex V544

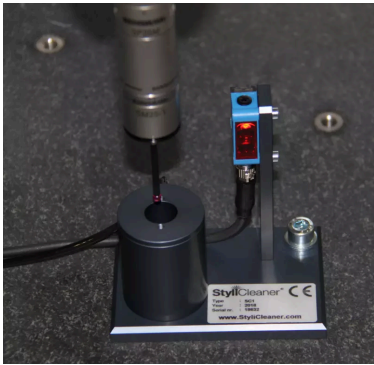
Item number: 191-121

Images



Accuracy is specified for the following environmental conditions for the ChMI:

Temperature range		18°C - 22°C	16°C - 26°C
Temperature change	Per hour	2°C	2°C
	Per 24 hours	2°C	5°C
Temperature gradient	Vertical	1°C/m	1°C/m
	Horizontal	1°C/m	1°C/m





Description

The latest generation CRYSTA-Apex coordinate measuring machines, the new CRYSTA-Apex V Series, is packed with state of the art technology, necessary for performing very accurate measurements at high speed. All new, using Mitutoyo's world-renowned ABS scales, the CRYSTA-Apex V series has a high resistance to environmental conditions and does not require to perform homing upon start-up. SMS capability enables status and service monitoring, ready for use in a Smart Factory environment.

A future proof investment, the CRYSTA-Apex V is capable of tackling any task you might have in the future thanks to its ability to change or add probe systems and software with ease.

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 26°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 V544
Range:	500 x 400 x 400 mm
Accuracy:	E0, MPE from: $(1,7+0,3L/100) \mu\text{m}$
Width:	1,082 mm
Depth:	1191 mm
Height:	2,185 mm
Mass:	515 kg
E_{0,MPE}:	With SP25M: $(1,7+4L/1000) \mu\text{m}$; With TP200: $(1,9+4L/1000) \mu\text{m}$; With TP20: $(2,2+4L/1000) \mu\text{m}$; L = measured length [mm]

Max. drive speed:	519 mm/s (3-axis)
3D Acceleration:	2309 mm/s ²
Air supply:	Pressure = 0,4 MPa
Loading Weight:	180 kg
Loading Height:	545 mm
Digital step:	0.1 μm

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