



CRYSTA-Apex V544

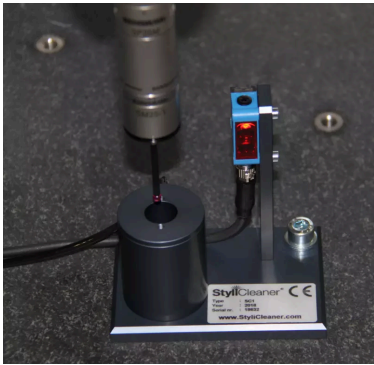
Item number: 191-122

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+3L/1000) µm
Width:	1,082 mm
Depth:	1191 mm
Height:	2,185 mm
Mass:	747 kg

E_{0,MPE}:	With SP25M: (1,7+4L/1000) µm; With TP200: (1,9+4L/1000) µm; With TP20: (2,2+4L/1000) µm; 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 Height:	545 mm
Digital step:	0.1 µm

Dimensions

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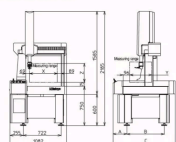
Temperature environment		Temperature environment 1	Temperature environment 2
Accuracy guaranteed conditions	Temperature range	18 to 22 °C	16 to 26 °C
	Rate of change	2 °C per hour 2 °C in 24 hours	2 °C per hour 5 °C in 24 hours
	Gradient	1 °C per meter (both vertically and horizontally)	

External dimensions/Measuring table clamping hole arrangement

CRYSTA-Apex V500 Series

CRYSTA-AP01X VSM

1200 0000



Model	CRYSTA-Ages V546	CRYSTA-Ages V576
X		500
Y	400	700
Z		400
A	268	315
B	713	3213