

CRYSTA-Apex V1200, 1600 & 2000 Series

Specifications

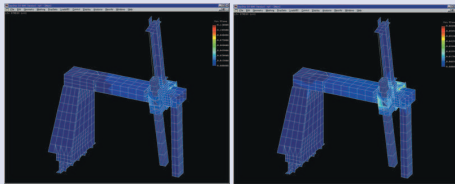
Accuracy	E0, MPE from: V1200 (2,3+3L/1000) μm E0, MPE from: V1600 & V2000 (3,3+4,5L/1000) μm
Max. drive speed	693 mm/s (3-axis)
Digital step	0,1 μm



Joystick-box V2 with speed adjustment knob, standard accessory.

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

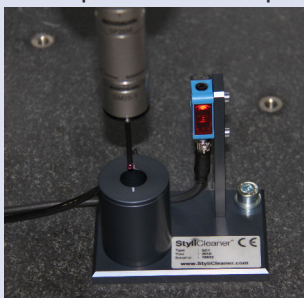
Temperature range		18°C - 22°C	16°C - 26°C
Temperature change	Per hour	2°C	2°C
	Per 24 hours	2°C	5°C
Temperature gradient	Vertical	1°C/m	1°C/m
	Horizontal	1°C/m	1°C/m



The machine structure has been optimized using FEM (Finite-element Method) and modal analysis



CRYSTA-Apex V brochure on request



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CRYSTA-Apex V1200, 1600 & 2000 Series

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 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)



CRYSTA-Apex V162012

CRYSTA-Apex V Models:

No.	Model	Range [mm]	Comments
191-481	CRYSTA-Apex V121210	1200 x 1200 x 1000	Standard stand
191-482	CRYSTA-Apex V121210	1200 x 1200 x 1000	Anti vibration stand
191-485	CRYSTA-Apex V122010	1200 x 2000 x 1000	Standard stand
191-486	CRYSTA-Apex V122010	1200 x 2000 x 1000	Anti vibration stand
191-489	CRYSTA-Apex V123010	1200 x 3000 x 1000	Standard stand
191-491	CRYSTA-Apex V123010	1200 x 3000 x 1000	Anti vibration stand
191-848	CRYSTA-Apex V 162012	1600 x 2000 x 1200	Standard stand
191-848H	CRYSTA-Apex V 162016	1600 x 2000 x 1600	Standard stand
191-849	CRYSTA-Apex V 162012	1600 x 2000 x 1200	Anti vibration stand
191-849H	CRYSTA-Apex V 162016	1600 x 2000 x 1600	Anti vibration stand
191-853	CRYSTA-Apex V 163012	1600 x 3000 x 1200	Standard stand
191-853H	CRYSTA-Apex V 163016	1600 x 3000 x 1600	Standard stand
191-854	CRYSTA-Apex V 163012	1600 x 3000 x 1200	Anti vibration stand
191-854H	CRYSTA-Apex V 163016	1600 x 3000 x 1600	Anti vibration stand
191-857	CRYSTA-Apex V 164012	1600 x 4000 x 1200	Standard stand
191-857H	CRYSTA-Apex V 164016	1600 x 4000 x 1600	Standard stand
191-858	CRYSTA-Apex V 164012	1600 x 4000 x 1200	Anti vibration stand
191-858H	CRYSTA-Apex V 164016	1600 x 4000 x 1600	Anti vibration stand
191-812H	CRYSTA-Apex V 203016	2000 x 3000 x 1600	Standard stand
191-813H	CRYSTA-Apex V 203016	2000 x 3000 x 1600	Anti vibration stand
191-817H	CRYSTA-Apex V 204016	2000 x 4000 x 1600	Anti vibration stand