

CRYSTA-APEX C2000/3000 Series

Series 191 - Standard Large CNC CMM

This large gantry style CNC CMM provides a huge measuring range of 2000 x 3000 x 1600 mm to 3000 x 6000 x 2000 mm yet still offers excellent accuracy.

Specifications

Digital step	0,1 μm
Scales	High accuracy linear encoder
Guide system	Air bearings on each axis
Max. drive speed	500 mm/sec

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	1.0 K	1.0 K
	Per 24 hours	2.0 K	5.0 K
Temperature gradient	Vertical	1.0 K/m	1.0 K/m
	Horizontal	1.0 K/m	1.0 K/m

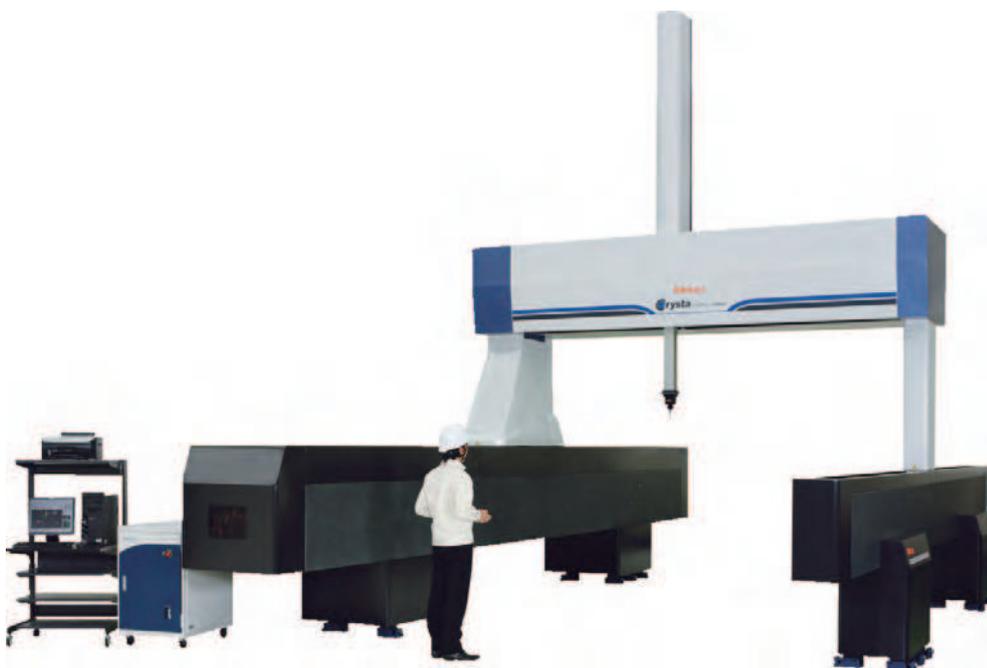
*When using temperature compensation system

Safety System

For this type series, Mitutoyo offers a customized safety system. Depending on the local situation in your facility, Mitutoyo will propose a tailor-made solution meeting the requirements of the machinery directive.

Foundation

This type series always requires a special foundation. Please contact your local Mitutoyo partner for further details.



CRYSTA-Apex C203016G

No.	Range X-axis	Range Y axis	Range Z axis	Accuracy ⁽¹⁾	Mass (main unit)
Crysta-Apex C203016G	2005 mm	3005 mm	1605 or 2005 mm ⁽²⁾	$E_{0,MPE} : (6+6L/1000)\mu\text{m}$ or $(7+7L/1000)\mu\text{m}$: Z-axis = 2005 mm $P_{FTU,MPE} : 6 \mu\text{m}$ or $7 \mu\text{m}$: Z-axis = 2005 mm $MPE_{THP} : 6,5 \mu\text{m}$ (90s) or $7,5 \mu\text{m}$ (90s) : Z-axis = 2005 mm	12000 kg
Crysta-Apex C306016G	3005 mm	6005 mm	1605 or 2005 mm ⁽²⁾	$E_{0,MPE} : (7+6L/1000)\mu\text{m}$ or $(8+7L/1000)\mu\text{m}$: Z-axis = 2005 mm $P_{FTU,MPE} : 7 \mu\text{m}$ or $8 \mu\text{m}$: Z-axis = 2005 mm $MPE_{THP} : 7,5 \mu\text{m}$ (90s) or $8,5 \mu\text{m}$ (90s) : Z-axis = 2005 mm	16000 kg

⁽¹⁾ The machine is equipped with a temperature compensation system, the effect of which is included in the accuracy specification according to ISO 10360-2 (2010) methods when using the SP25M probe system with a $\phi 4 \times 50$ mm stylus.
L= measured length (mm).

⁽²⁾ According to order No.