

# Coordinate Measuring Machines

Precision measuring technology in three dimensions

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

## Standard CNC CMM MICROCORD CRYSTA-Apex S Series

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Data Management Software by Mitutoyo

- The CRYSTA-Apex S500/700/900 series, CNC CMMs deliver high accuracy (1.7 μm), high speed, and high acceleration. This series offers flexibility with a wide range of models to suit practically any size workpiece.
- All CRYSTA-Apex S CMMs are equipped with temperature compensation and therefore do not require a temperature controlled room. Accuracy is guaranteed within the range of 16 °C to 26 °C.



CRYSTA-Apex S 544



CRYSTA-Apex S 776



CRYSTA-Apex S 9106

## SPECIFICATIONS

Model		CRYSTA-Apex S 544	CRYSTA-Apex S 574	CRYSTA-Apex S 776	CRYSTA-Apex S 7106
Measuring range	X axis	500 mm		700 mm	
	Y axis	400 mm	700 mm	700 mm	1000 mm
	Z axis	400 mm		600 mm	

Model		CRYSTA-Apex S 9106 (Z600) /9108 (Z800)	CRYSTA-Apex S 9166 (Z600) /9168 (Z800)	CRYSTA-Apex S 9206 (Z600) /9208 (Z800)
Measuring range	X axis	900 mm		
	Y axis	1000 mm	1600 mm	2000 mm
	Z axis	600 mm/800 mm		

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

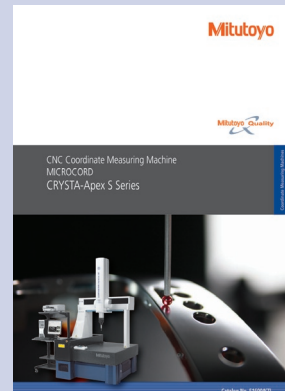
## CRYSTA-Apex S Series Accuracy

Unit: μm

Series	Probe used	Length measurement error*1 ISO 10360-2:2009
500/700/900 Series	SP25M	$E_0, MPE = 1.7 + 3L/1000^{*2}$

\*1: Specifications vary by configuration, size, and thermal environment.

\*2: L = Measuring length (unit: mm)



Refer to the CRYSTA-Apex S Series Catalog (No. E16004) for more details.

- The CRYSTA-Apex S1200/1600/2000 Series are large-sized CNC CMMs developed for supporting quality evaluation of large parts.

- All CRYSTA-Apex S1200/1600/2000 high-precision series CMMs are equipped with temperature compensation and therefore do not require a temperature controlled room. Accuracy is guaranteed within a wide range from 16 °C to 24 °C.



CRYSTA-Apex S122010



CRYSTA-Apex S163012

## SPECIFICATIONS

Items		Model	CRYSTA-Apex S 121210	CRYSTA-Apex S 122010	CRYSTA-Apex S 123010
Measuring range	X axis		1200 mm		
	Y axis		1200 mm	2000 mm	3000 mm
	Z axis		1000 mm		

Items		Model	CRYSTA-Apex S 162012(Z1200)/162016(Z1600)	CRYSTA-Apex S 163012(Z1200)/163016(Z1600)	CRYSTA-Apex S 164012(Z1200)/164016(Z1600)
Measuring range	X axis		1600 mm		
	Y axis		2000 mm	3000 mm	4000 mm
	Z axis		1200 mm/1600 mm		

Items		Model	CRYSTA-Apex S 203016	CRYSTA-Apex S 204016
Measuring range	X axis		2000 mm	
	Y axis		3000 mm	4000 mm
	Z axis		1600 mm	

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

## CRYSTA-Apex S Series Accuracy

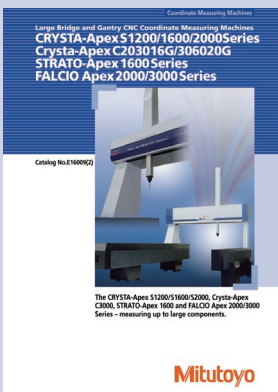
Unit:  $\mu\text{m}$

Series	Probe used	Length measurement error *1 ISO 10360-2:2009
1200 Series	SP25M	$E_0, \text{MPE} = 2.3 + 3L/1000^{*2}$
1600 Series		$E_0, \text{MPE} = 3.3 + 4.5L/1000 (4.5 + 5.5L/1000)^{*2} \text{ *3}$
2000 Series		$E_0, \text{MPE} = 4.5 + 8L/1000^{*2}$

\*1: Specifications vary by configuration, size, and thermal environment.

\*2: L = Measuring length (unit: mm)

\*3: ( ) indicates Z: 1600 mm specification



Refer to the CRYSTA-Apex C/FALCIO Apex Series Catalog (No. E16009) for more details.