

# CNC Coordinate Measuring Machine CRYSTA-Apex V 500/700/900 Series

An innovative and advanced design  
ideally suited to your Smart Factory

## New Generation CNC Coordinate Measuring Machine



CRYSTA-Apex V 574



CRYSTA-Apex V 776



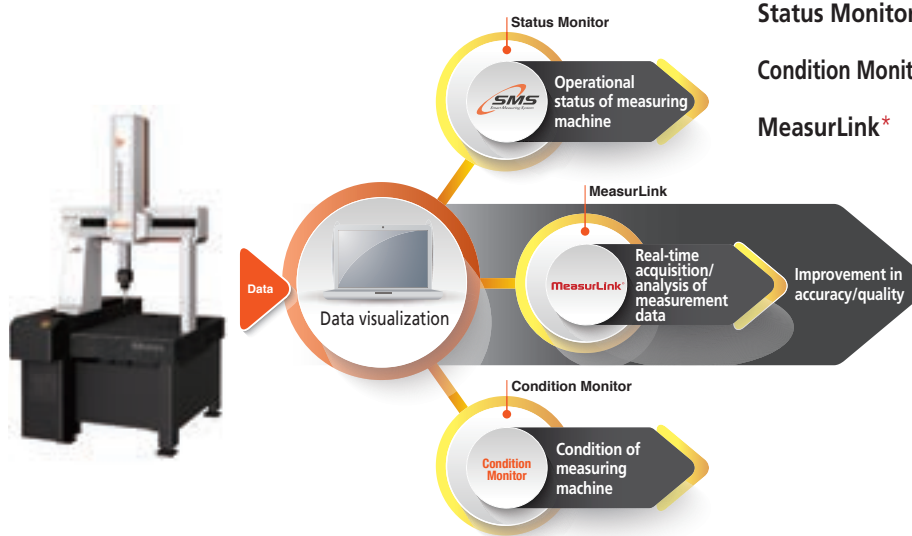
CRYSTA-Apex V 9106



**Mitutoyo**

# CNC Coordinate Measuring Machine CRYSTA-Apex V 500/700/900 Series

- Offers high accuracy (1.7 μm), high speed and acceleration and the flexibility to measure small- to medium-sized workpieces.
- Equipped with a temperature compensation system that guarantees the specified accuracy within the wide range of 16°C to 26°C under certain environmental conditions, although high-accuracy CMMs should normally be installed in a temperature controlled room.
- Supports Smart Factory with the following three applications that consolidate information management of the manufacturing process through a network.



**Status Monitor**

Allows remote monitoring of the operational status of measuring instruments.

**Condition Monitor\***

Allows remote monitoring of the current condition of measuring instruments.

**MeasurLink\***

Reduces the production of defective parts through "Visualizing Quality".

\*Optional



**SMS (Smart Measuring System)**

This system allows on-line monitoring of the operational status of a measuring machine and visualization of measurement data produced during the manufacturing process to enable product quality improvement

## SPECIFICATIONS

Items	Model	CRYSTA-Apex V 544	CRYSTA-Apex V 574	CRYSTA-Apex V 776	CRYSTA-Apex V 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	

Items	Model	CRYSTA-Apex V 9106 (Z600)/9108 (Z800)	CRYSTA-Apex V 9166 (Z600)/9168 (Z800)	CRYSTA-Apex V 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 V 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)

**Note:** CNC CMMs on this flyer incorporate a main unit Startup system (relocation detection system), which disables operation when an unexpected vibration has occurred or the machine has been relocated. Be sure to contact your nearest Mitutoyo Sales Office prior to relocating your machine after initial installation

Please contact your local Mitutoyo Sales Office for more details

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Coordinate Measuring Machines

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Form Measurement

Optical Measuring

Sensor Systems

Test Equipment and Seismometers

Digital Scale and DRO Systems

Small Tool Instruments and Data Management