

# Specifications



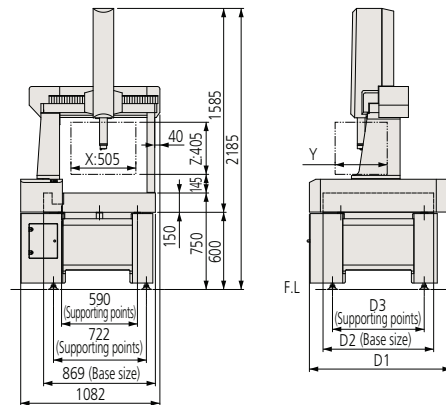
Model No.		CRYSTA-Apex S544	CRYSTA-Apex S574
Measuring range	X axis	505 mm	
	Y axis	405 mm	705 mm
	Z axis	405 mm	
Resolution	0.0001 mm (0.1 μm)		
Guide method	Air bearings on each axis		
Drive speed	8-300 mm/s (CNC mode), max. speed: 519 mm/s 0 - 80 mm/s (J/S Mode: High Speed) 0 - 3 mm/s (J/S Mode: Low Speed) 0.05 mm/s (J/S Mode: Fine Speed)		
Max. measuring speed	8 mm/s		
Max. drive acceleration	Each axis: 1,333 mm/s <sup>2</sup> , max. combined acceleration: 2,309 mm/s <sup>2</sup>		
Workpiece	Maximum height	545 mm	
	Maximum mass	180 kg	
Mass (including the control device and installation platform)	515 kg	625 kg	
Air supply	Pressure	0.4 MPa	
	Consumption	50 L/min under normal conditions (air source: 100 L/min)	

## CRYSTA-Apex S500/700/900 Series Accuracy ISO 10360-2 unit: μm

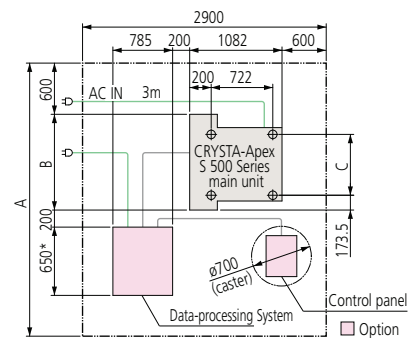
Probe used	Maximum permissible error (MPE <sub>E</sub> )*	Maximum permissible probing error (MPE <sub>P</sub> )
SP25M (Stylus: ø4 X 50mm)	1.7+3 L/1000 (temperature environment 1) 1.7+4 L/1000 (temperature environment 2)	1.7
TP200 (Stylus: ø4 X 10mm)	1.9+3 L/1000 (temperature environment 1) 1.9+4 L/1000 (temperature environment 2)	1.9
TP20 (Stylus: ø4 X 10mm)	2.2+3 L/1000 (temperature environment 1) 2.2+4 L/1000 (temperature environment 2)	2.2

\* L = Selected measuring length (in mm). Table on opposite page describes temperature environments 1 and 2.

## CRYSTA-Apex S500 Series Dimensions (unit: mm)



## Installation floor space (unit: mm)



\* When a mouse table is used: 850 mm  
When a 2-monitor dedicated rack is used: 1,000 mm

Model No.	A	B	C	D1	D2	D3	Y
CRYSTA-Apex S544	3200	1122	713	1122	860	713	405
CRYSTA-Apex S574	3500	1458	1013	1458	1160	1013	705