

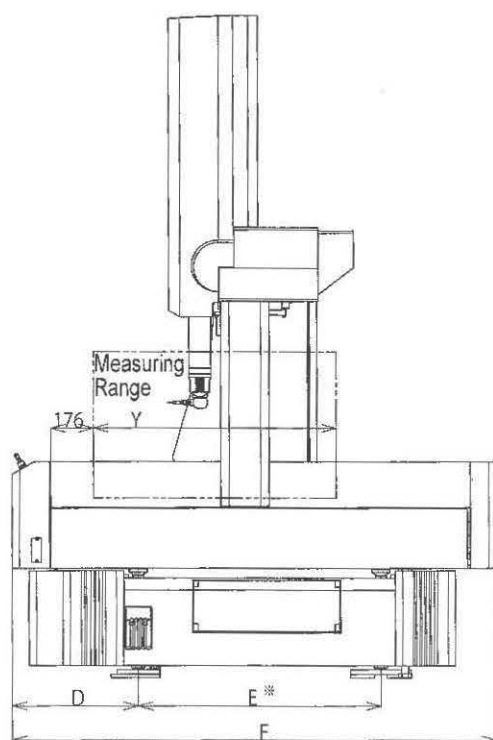
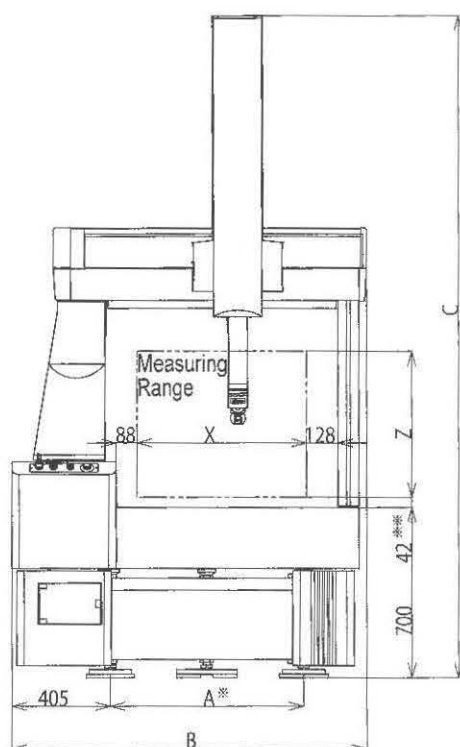
8.1.2 CRYSTA-Apex S 700/900 Series

■ Specifications



Items		CRYSTA- Apex S 776	CRYSTA- Apex S 7106	CRYSTA- Apex S 9106	CRYSTA- Apex S 9166	CRYSTA- Apex S 9206	CRYSTA- Apex S 9108	CRYSTA- Apex S 9168	CRYSTA- Apex S 9208
Measuring range	X-axis	700 mm		900 mm					
	Y-axis	700 mm	1000 mm		1600 mm	2000 mm	1000 mm	1600 mm	2000 mm
	Z-axis	600 mm					800 mm		
Guide method		Air bearing for each axis							
Driving speed	CNC mode (mode select switch: AUTO)	Moving speed of each axis: 8 to 300 mm/s (max. composite speed: 519 mm/s)							
		Measuring speed: 1 to 8 mm/s				Measuring speed: 1 to 3 mm/s			
	CNC mode (mode select switch: MANUAL)	Moving speed of each axis: 8 to 138 mm/s (max. composite speed: 239 mm/s)							
		Measuring speed: 1 to 8 mm/s				Measuring speed: 1 to 3 mm/s			
	Joystick mode	Moving speed: 0 to 80 mm/s							
		Measuring speed: 0 to 3 mm/s							
Fine movement speed: 0.05 mm/s									
Driving acceleration		1333 mm/s ² for each axis (1000 mm/s ² for S9108, S9168, S9208) Max. composite acceleration: 2309 mm/s ² (1732 mm/s ² for S9108, S9168, S9208)							
Measuring method		Linear encoder							
Resolution		0.0001 mm							
Measuring table	Material	Granite							
	Size	880 mm × 1420 mm	880 mm × 1720 mm	1080 mm × 1720 mm	1080 mm × 2320 mm	1080 mm × 2720 mm	1080 mm × 1720 mm	1080 mm × 2320 mm	1080 mm × 2720 mm
	Workpiece clamping	Using the M8 coarse thread female screw							
Workpiece	Maximum height	800 mm					1000 mm		
	Maximum mass	800 kg	1000 kg	1200 kg	1500 kg	1800 kg	1200 kg	1500 kg	1800 kg
Dimensions (main unit)	Height	2730 mm					3130 mm		
	Width	1470 mm		1670 mm					
	Depth	1700 mm	2000 mm		2740 mm	3220 mm	2000 mm	2740 mm	3220 mm
Machine mass (including stand)		1675 kg	1951 kg	2231 kg	2868 kg	3912 kg	2261 kg	2898 kg	3942 kg
Power supply condition	Voltage	Single phase: 100 to 120/220 to 240 VAC ±10 % (50/60 Hz)							
	Input power capacity	0.6 kW (including probe option)							
Operating air conditions	Operating air pressure	0.4 MPa							
	Air consumption	60 L/min (under the standard condition) (120 L/min or more as the air source)							
Operating conditions		The temperature conditions and floor vibrations should comply with "3.1 Operating Conditions" on page 29.							
Airborne noise emission		70 dB (A) or less (A-weighted sound pressure level)							
CE marking		EMC Directive: EN61326-1 Immunity test requirements: Clause 6.2 Table 2 Emission limit: Class A Machinery Directive: EN ISO 12100 EN60204-1 RoHS Directive: EN 50581							
Others		Internal real-time clock (Power backup by a lithium battery)							

■ Dimensions



Unit: mm

- X, Y, and Z indicate the measuring range centering on the rotation of PH10MQ.
- The length marked with * is a support pitch.
- The length marked with ** is 52 mm when Z is 800 mm.

	CRYSTA-Apex S 776	CRYSTA-Apex S 7106	CRYSTA-Apex S9106	CRYSTA-Apex S9166	CRYSTA-Apex S9206	CRYSTA-Apex S9108	CRYSTA-Apex S9168	CRYSTA-Apex S9208
A	800		1000					
B	1470		1670					
C	2730					3130		
D	470	520	750	880	520	750	880	
E	800	1000	1320	1500	1000	1320	1500	
F	1700	2000	2740	3220	2000	2740	3220	
X	700		900					
Y	700	1000	1600	2000	1000	1600	2000	
Z	600					800		