

Global spec CNC machine incorporating Tokyo Seimitsu and Carl Zeiss technology

XYZAX CVA-A

CNC 3D Coordinate Measuring Machine New series that incorporates the best of Carl Zeiss technology



Linking with a Carl Zeiss Technologies controller makes it possible to equip a temperature compensation function for high-speed measuring (approximately 30% faster than previous ACCRETECH models) as standard, while highly environment resistant, versatile software provides AI functions as standard.
(Patented in Japan and overseas)



Features

All the technology of the XYZAX SVA

This global spec CNC machine combines Carl Zeiss Technologies control technology and Tokyo Seimitsu mechanical technology.

Superior mechanical structure

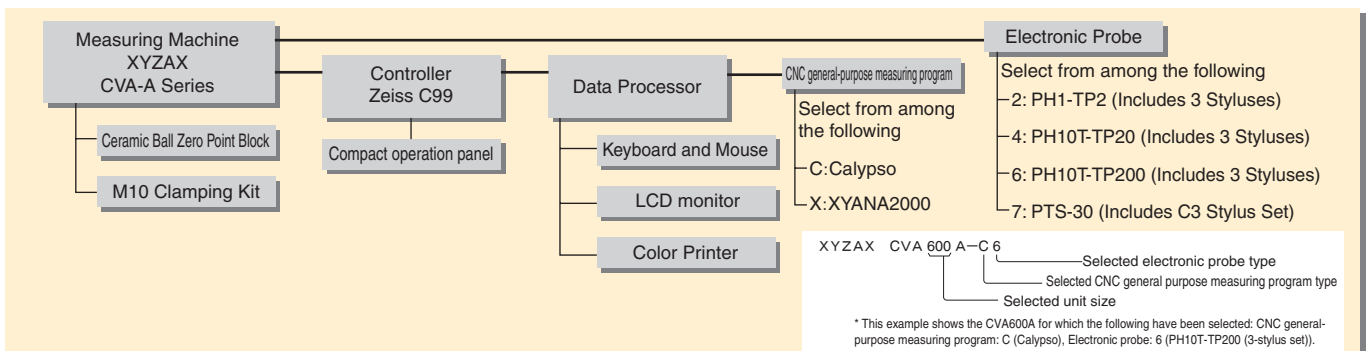
Y-axis guide surface maisonette bridge structure for outstanding dynamic rigidity. Anti-vibration drive for Z-axis drive suppresses vibration. State-of-the-art technology including monocoque main structure for high rigidity and light weight

Powerful software

Powerful software delivers the ultimate in ease of operation and simplicity.

Tokyo Seimitsu's world-first implementation of an AI function that detects geometric forms automatically (patented in Japan and overseas) with XYANA software plus built-in next-generation Calypso software developed by Carl Zeiss Technologies and Tokyo Seimitsu has earned this machine high ratings around the globe.

Main System Configuration



CVA-A Specifications

Model		CVA600A	CVA800A	CVA1000A	CVA1500A
Measuring range	X axis (mm)	650	850		
	Y axis (mm)	500	600	1000	1500
	Z axis (mm)	450	600		
Measuring scale		High-precision Moire striped scale			
Min.display value		0.01 μm			
Measuring accuracy	Indication accuracy MPE_E =	2.7+4L/1000	2.9+5L/1000	3.2+5L/1000	
	Probing accuracy MPE_P = TP200 (Renishaw stylus with φ4,L=20mm tip)	2.8	3.0	3.5	
Table	Material	Granite			
	Usable width(X) (mm)	800	1000		
	Usable depth(Y) (mm)	1270	1370	1810	2410
	Height from floor (mm)	725			
	Flatness	JIS 1 class			
	Mounting screws for work piece measured	M10 screw holes			
Workpiece measured	Max.height (mm)	620	770		
	Max.load (mm)	400	800	1000	1500
Drive speed	Max.acceleration/deceleration	1700 mm/sec ²			
	Movement speed	CNC measurement mode ; 0.01 ~425 mm/sec (stepless) Joystick measurement mode ; 0 ~120 mm/sec (stepless)			
	Measuring speed	Joystick measurement mode ; 0 ~5 mm/sec (stepless)			
Guide system for axes		Air bearing			
Max.probe weight		2 kg			
Machine dimension	Width (mm)	1415	1615		
	Depth (mm)	1440	1540	1980	2580
	Height (mm)	2455	2655		
Machine weight(kg)		1450	1600	2700	3500
Temperature condition	Ambient temperature	16~26°C			
	Temperature change (°C/hour)	2.0°C			
	Temperature change (°C/day)	5.0°C			
	Temperature change (°C/m)	1.0°C			

-1 The indication accuracy MPE_E and probing accuracy MPE_P for measuring accuracy are evaluation methods for coordinate measuring machines in accordance with JIS B 7440-2 :2003 (ISO 10360-2 :2001)

Be sure to check the height of passageways, and, in particular, the height of doors and other access openings to be used when the machine is delivered.
The height of access openings at delivery needs to be the specified delivery clearance height of each machine plus about 200 mm to allow for the dollies used to move the machines.
* Controller and computer rack are also included.

External View

