XYZAX SVA-A

SVA-A—Reduces Costs and Enhances Quality

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CNC 3D Coordinate Measuring Machines

New series that incorporates Carl Zeiss technology
Space precision compensation technology dramatically improves measuring accuracy.
Thermal compensation function equipped as standard for improved environment resistance
Powerful software includes AI functions as standard. (Patented in Japan and overseas)

Features

Integrates ZEISS Technology
This CNC machine combines CARL ZEISS control technology with ACCRETECH hardware.

High-Speed Measurements
The incorporation of a ZEISS high-performance controller has reduced the required CNC measuring time by approximately 30% (comparison with other ACCRETECH machines).

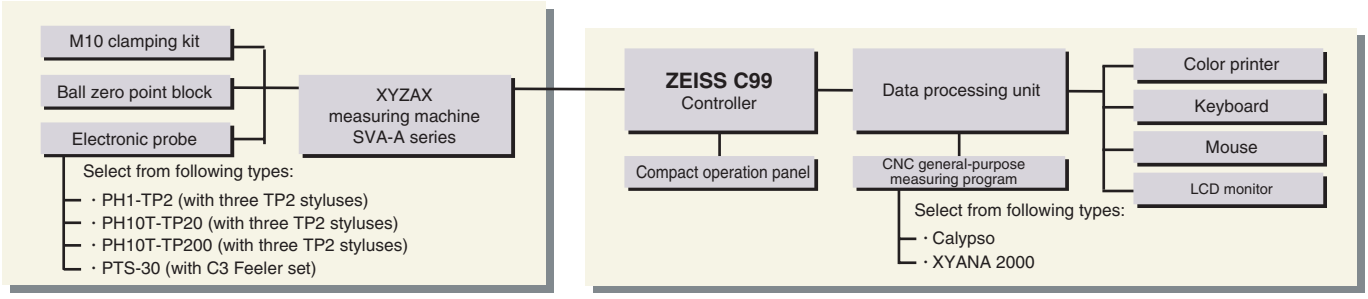
AI Function (patented in Japan and overseas)
An AI (Artificial Intelligence) function enables measured shapes to be automatically recognized. This dramatically reduces the number of input steps, making the machine easy to operate even for beginners.

Standard Temperature Compensation Function
Temperature compensation enables measurements to be made at measuring room temperatures between 16 and 26°C. This substantially reduces the operating cost for the air conditioning system.

Compact Operation Panel
The operation panel is compact and can be used at the desired location around the measuring table.

Optional LCD Monitor with Touch Panel (Standard Feature with XYANA Specifications)
Placement of this optional monitor on a mobile stand enables operation at the most convenient location.

Main System Configuration



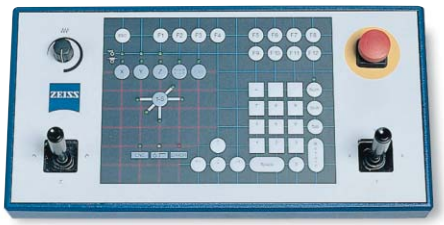
Electronic Probes

PH10T-TP200/TP20

PTS-30

PH1-TP2

Compact operation panel



Specifications

Model		SVA600A	SVA800A	SVA1000A	SVA1500A	SVA1010A	SVA1012A	SVA1015A	SVA1215A	SVA1220A
Measuring Range	X-axis (mm)	650	850			1000			1200	
	Y-axis (mm)	500	600	1000	1500	1000	1200	1500	1500	2000
	Z-axis (mm)	450	600			600/800			1000	
Measuring Scale		Optical Linear Encoder								
Minimum Display Value		0.01 μm								
Measuring Accuracy	Maximum Permissible Indication Error MPE_E=	1.9+4L/1000 μm(Temperature Conditions A)			2.4+4L/1000 μm (Temperature Conditions A)	2.9+5L/1000 μm(Z600)(Temperature Conditions B)			3.5+5L/1000 μm	
	L is the distance between two points (mm)	2.4+4L/1000 μm(Temperature Conditions B)		2.9+4L/1000 μm(Temperature Conditions B)		3.2+5L/1000 μm(Z800)(Temperature Conditions A only)			(Temperature Conditions A only)	
	Maximum Permissible Probing Error MPE_P= (TP200)	2.2 μm(Temperature Conditions A)		2.7 μm(Temperature Conditions A)		3.2 μm(Z600)(Temperature Conditions B)			3.4 μm	
		2.7 μm(Temperature Conditions B)		3.2 μm(Temperature Conditions B)		3.2 μm(Z800)(Temperature Conditions A only)			(Temperature Conditions A only)	
Table	Material	Granite								
	Usable Width (X) (mm)	800	1000			1150			1370	
	Usable Depth (Y) (mm)	1270	1370	1810	2310	1810(Z600) 1910(Z800)	2010(Z600) 2110(Z800)	2310(Z600) 2410(Z800)	2410	3010
	Height from Floor (mm)	725				725(Z600), 600(Z800)			600	650
	Flatness	JIS Class 1								
Workpiece Measured	Max. Height (mm)	620	770			770(Z600), 970(Z800)			1170	
	Max. Weight (kg)	400	800	1000	1500	1000	1200	1500	1500	
Drive Speed	Maximum Acceleration/Deceleration	1700mm/sec²(Z600), 1200mm/sec²(Z800), 700mm/sec²(Z1000)								
	Available Speed Range	CNC Measurement Mode: 0.01 - 425mm/sec (stepless adjustable) Joystick Mode: 0 - 120mm/sec (stepless adjustable)								
Guide System for Axes		Air bearing								
External Dimensions	Width (mm)	1415	1615			1765			1965	
	Depth (mm)	1440	1540	1980	2480	1980(Z600) 2080(Z800)	2180(Z600) 2280(Z800)	2480(Z600) 2580(Z800)	2580	3180
	Height (mm)	2455	2655			2655/2930			3330	3380
Machine Weight (kg)		1450	1600	2700	3400	3000(Z600) 3200(Z800)	3200(Z600) 3400(Z800)	3500(Z600) 3700(Z800)	4500	6300
Air Source	Supply Pressure	0.49 - 0.69MPa								
	Air Consumption Volume	40Nℓ/min				40Nℓ/min(Z600), 60Nℓ/min(Z800)			65Nℓ/min	
Power Requirements	Voltage, Consumption	AC100V±10%, 1500VA								

*1 MPE_E (Maximum Permissible Indication Error) and MPE_P (Maximum Permissible Probing Error) are based on the ISO 10360-2:2001 (JIS B 7440-2:2003) evaluation method for 3D coordinate measuring machines.
*2 Measuring accuracy values when standard stylus (ϕ4, L20mm) is used.

	Temperature Conditions A	Temperature Conditions B
Ambient Temperature (°C)	18 - 22	16 - 26
Temperature Change (°C/hour)	1.0	2.0
Temperature Change (°C/day)	2.0	5.0
Temperature Gradient (°C/m)	1.0	1.0