ACCRETECH XYZAX SVF NEX

Full renewed design of our long-selling machines, RVF series Newly improved entry model of manual type, high precision 3D measuring machine.



Basic System Configuration



ACCRETECH TOKYO SEIMITSU

AI (Artificial Intelligence) Function

Measured geometric forms are detected automatically (geometric form AI), which eliminates the need to specify form elements for each measurement for greatly enhanced efficiency.

Automatically detected geometric form elements are: points, straight lines, circles, flat surfaces, ellipses, spheres, cylinders and cones.

A coordinate system AI function and coordinate system assist function make coordinate system settings as easy as performing a series of measurements.

- · The coordinate system assist function comes with 20 preregistered settings that make it possible to perform measurements by following the instructions that appear on the screen.
- · The coordinate system AI function configures settings automatically in accordance with measuring elements and coordinate system settings.



Light weight design that does not cause fatigue even in long hours of measurement

Aged, surface-hardened aluminum alloy is used for the X-guide and Z-axis, which are finished to a high level of straightness accuracy. Since moving parts are lightweight, there is less inertia to overcome when measuring, which reduces operator fatigue.



Braking Function (option)

The braking function facilitates manual operation using a centering microscope. The effects of air bearing inertia are suppressed to allow minute positioning.

High Rigidity Maisonette Bridge Structure

Since Y-axis is the basis for measurement accuracy, its guide is required to be stable. The machine features a table with precision finished sides and Maisonette bridge structure (guides on both sides of the table) with a spring mechanism. This provides high rigidity and allows stable measurement accuracy to be maintained over long periods.



Knob-based Smooth Fine Feed

An X,Y, and Z-axis adjustment knob is positioned for easy operation. Smooth, fine feed of 0.5 mm per rotation are particularly effective when measuring with a microscope or ITV camera



Z-axis Terminate Switch Provided as Standard

Measure, terminate, and intermediate point operations switches are freely selectable during operation. This allows continuous operation without

removing your hand from the Z-axis.



Color LCD Monitor with Touch Panel Provided as Standard (XYANA2000)



All functions appear as color icons on the LCD monitor screen for simple operation, even for inexperienced users.

A movable rack (optional) allows the monitor to be moved easily to the desired measuring position.

Electronic Probes (Available as a Set)







PH1-TP2



MH20i



Specifications

Model		XYZAX SVF NEX				
		4/4/3	6/5/3	8/6/6	8/10/6	
Measuring range	X-axis (mm)	400 600 800				
	Y-axis (mm)	350	500	600	1000	
	Z-axis (mm)	300		600		
Minimum display value (µm)		0.01				
Measuring length scale		Linear scale				
Measuring accuracy	Max. permissible indication error MPEE (μ m) L is the distance between any two points (mm)	3.0 + 4.0 L/1000	4.0 + 5.0 L/1000	5.4 + 5.5 L/1000		
Table	Material	Gabbro				
	Usable range (mm)	600 x 895	800 x 1045	1000 x 1250	1000 x 1750	
	Height from floor (mm)	760				
	Flatness	JIS Class 1				
	Fixing screw for object to be be measured	M10 internal screw				
Workpiece	Max. height (mm)	450	450	750		
	Max. weight (kg)	300	400	600	800	
Guide system of each axis		High rigidity air bearing				
Probe balancing range		0 to 1 kg (200 g each variable)				
Air supply	Supply pressure/working pressure (MPa)	0.3 to 0.69/0.27		0.4 to 0.69/0.39		
	Air consumption (NL/min)	40 (barometric pressure conversion)				
Power supply	Voltage (V/%), consumption (VA)	AC100 ±10 (grounding required), 500				

•Support of large size other than the above is also available. Please contact us for details.

External View





Centering Microscope



ITV Camera System



*The specification and appearance are subject to change due to the convenience of the supplier.

Dimensions

Model		XYZAX SVF NEX					
		4/4/3	6/5/3	8/6/6	8/10/6		
Dimensions (mm)	Width	990	1190	1490			
	Depth	895	1045	1250	1750		
	Height	2105		2705			
Machine height at transport (mm)		1780		2080			
Weight (kg)		580	770	1200	1700		

*Be sure to check the height of passageways, and, in particular, the height of doors and other openings to be used when the machine is delivered. The height of openings needs to be the machine height at transport plus about 200 mm to allow for the dollies used to move the machines.

