



High Accuracy CNC Coordinate Measuring Machine STRATO-Active Series



# STRATO-Active

- The bridge type CNC CMM offers both high performance and cost-effective measurements.
- Achieves high accuracy of (1.2+3L/1000) µm\*.



### **Applications**

Capable of measuring high-precision parts effectively.

Automotive industry E drive units for EV and FCV



**Semiconductor industry** Semiconductor manufacturing equipment



Medical industry
Surgical robotic system





### **Specifications**

Model			STRATO-Active 776	STRATO-Active 7106	STRATO-Active 9106	STRATO-Active 9166	
Measuring range	X axis		700 mm	700 mm	900 mm	900 mm	
	Y axis		700 mm	1000 mm	1000 mm	1600 mm	
	Z axis		600 mm				
Guide system			Air bearing on each axis				
Drive speed	CNC MODE (Mode selector switch: AUTO)	Moving speed	Max. 300 mm/s (Max. combined speed 519 mm/s)				
		Measuring speed	1 to 3 mm/s				
	CNC MODE (Mode selector switch: MANUAL)	Moving speed	Max. 138 mm/s (Max. combined speed 239 mm/s)				
		Measuring speed	1 to 3 mm/s				
	J/S MODE	High speed	0 to 80 mm/s				
		Low speed	0 to 3 mm/s				
		Fine speed	0 to 0.05 mm/s				
Drive acceleration			Each axis 1333 mm/s <sup>2</sup> (Max. combined acceleration 2309)				
Length measuring method			Linear encoder				
Resolution			0.00005 mm				
Measuring table	Material		Granite				
	Size (stage)		876 × 1420 mm	876×1720 mm	1076×1720 mm	1076×2320 mm	
	Measured object fixing method		Screw (M8 × 1.25)				
Workpiece	Maximum height		800 mm				
	Maximum mass		800 kg	1000 kg	1200 kg	1500 kg	
Main unit dimensions (H×W×D)			2730 × 1465 × 1700 mm	2730 × 1465 × 2000 mm	2730×1665×2000 mm	2730 × 1665 × 2740 mm	
Mass (including the installation platform and control device)			1900 kg	2150 kg	2350 kg	3050 kg	
Power source	Voltage, Frequency		100 to 120 / 200 to 240 VAC, 50/60 Hz				
rower source	Maximum power consumption		1.5 kW				

Accuracy\* Unit: µm

Title	Symbol	Standard	
Langth mass year arter	Ео,мре		1.2+3L/1000
Length measurement error	E <sub>150</sub> ,MPE	ISO 10360-2: 2009 (JIS B 7440-2: 2013)	1.2+3L/1000
Repeatability range of Eo	Ro,mpl		1.2
Scanning mode form error on a sphere	P Form.Sph.Scan:PP:Tact,MPE		2.0
Scanning mode time	₹ Sph.Scan:PP:Tact,MPL	ISO 10360-5: 2020 (JIS B 7440-5: 2022)	45 s
Single-stylus form error	PForm.Sph.1×25:SS:Tact,MPE		1.2

<sup>\*</sup>guaranteed when using the SP25M probe system with a #4 × 50 mm stylus [SM25-1+SH25-1+Stylus (#4 × 50 mm)]. L: measuring length (mm).

### **Guaranteed accuracy temperature**

Temperature range	18 to 22 °C	
Tomporature change	Per hour	1.0 °C
Temperature change	Per day	2.0 °C
Tomporature gradient	Vertical	1.0 °C/m
Temperature gradient	Horizontal	1.0 °C/m



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Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis



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