

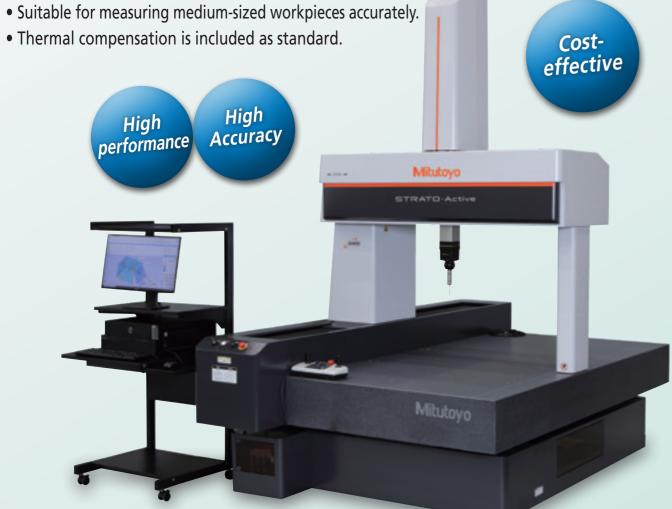


High Accuracy CNC Coordinate Measuring Machine STRATO-Active Series



# STRATO-Active

- The bridge type CNC CMM offers both high performance and cost-effective measurements.
- Achieves high accuracy of (1.2+3L/1000) µm\*.
- High speed measurement at 3 mm/s.Suitable for measuring medium-sized workpieces accurately.



### **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 x 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
Douge course	Voltage, Frequency		100 to 120 / 200 to 240 VAC, 50/60 Hz			
Power source	Maximum power consumption		1.5 kW			

Accuracy\* Unit: µm

Title	Symbol	Standard	
Langth massurament array	Eo,mpe		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 E <sub>0</sub>	Ro,mpl		1.2
Scanning mode form error on a sphere	PForm.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  $\#4 \times 50$  mm stylus [SM25-1+SH25-1+Stylus( $\#4 \times 50$  mm)]. L: measuring length (mm).

#### **Guaranteed accuracy temperature**

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



Whatever your challenges are, Mitutoyo supports you from start to finish.

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



## Find additional product literature and our product catalogue

https://www.mitutoyo.co.jp/global.html

Our products are classified as regulated items under Japanese Foreign Exchange and Foreign Trade Law. Please consult us in advance if you wish to export our products to any other country.

If the purchased product is exported, even though it is not a regulated item (Catch-All controls item), the customer service available for that product may be affected. If you have any questions, please consult your local Mitutoyo sales office.

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

MITUTOYO and MiCAT are either registered trademarks or trademarks of Mitutoyo Corp. in Japan and/or other countries/regions. Other product, company and brand names mentioned herein are for identification purposes only and may be the

trademarks of their respective holders.

All product information contained in this brochure is current as of September 2023.



#### Mitutoyo Corporation

20-1, Sakado 1-Chome,

Takatsu-ku, Kawasaki-shi,

Kanagawa 213-8533, Japan

T +81 (0) 44 813-8230

F +81 (0) 44 813-8231

https://www.mitutoyo.co.jp