

Shop-floor Type CNC Coordinate Measuring Machine MiSTAR 555



Equipped with the **PH10MQ** probe head

- An accuracy-guaranteed temperature range of 10 to 40 °C is possible thanks to a combination of technologies, such as the symmetric guide structure, uniform material and temperature compensation.
- A contamination resistance more than 2 times better than Mitutoyo's conventional machine is achieved by adopting a newly developed environment-resistant absolute scale*¹.
- The footprint is reduced to about 80% compared with that of the conventional moving bridge model by adopting the horizontal-arm structure and installing the CMM controller and PC under the measuring table.

* Absolute scale that provides an absolute XYZ-values relative to an internal reference point for each coordinate captured. This eliminates the need for an initialization operation.



MiSTAR 555

SPECIFICATIONS

Items		Model	MiSTAR 555
Measuring range	X axis		570 mm
	Y axis		500 mm
	Z axis		500 mm
Maximum permissible length measurement error* ¹ * ² ISO 10360-2: 2009 (18 to 22 °C)			2.2 + 3L/1000 μm
Drive speed			5 to 350 mm/s (max. combined speed 606 mm/s) in CNC MODE
Drive acceleration			1556 mm/s ² (max. combined acceleration 2695 mm/s ²)
Workpiece	Max. height		660 mm
	Max. loading		120 kg
Accuracy guaranteed temperature range			10 to 40 °C
Mass (including the controller and installation platform)			655 kg

*¹ Specifications vary by configuration, size, and thermal environment.

*² L = Measuring length (unit: mm)

Note1: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

Note2: For information about guaranteed accuracy outside of the 18 to 22 °C temperature range, contact your local Mitutoyo sales office.



Refer to the **MiSTAR 555**
Brochure (**E16028**) for more details.