

## Ultra-high Accuracy CNC CMM LEGEX Series

- The **LEGEX** Series is an ultra-high precision CNC CMM with the world's highest level of accuracy, made possible by rigorous analysis of all possible error-producing factors and the elimination or minimization of their effects.
- The fixed bridge structure and precision air bearings running on highly rigid guideways ensure superior motion stability and ultra-high geometrical accuracy. It has been designed to minimize deformation affected by variable load, etc. by conducting in-depth stress analyses based on FEM structural analysis simulations. In addition, other technologies have been utilized in the structure of the drive unit, minimizing vibration, etc., to provide ultra-high accuracy.
- For position detection, it has adopted an ultra-high-precision length measuring unit (internally developed) created by combining an ultra-high-precision crystallized glass scale having a thermal expansion coefficient of 0 with a high-resolution, high-performance reflective linear encoder, thereby enabling excellent position detection for ultra-high-precision measurement.



LEGEX 9106

## SPECIFICATIONS

Model		LEGEX 574	LEGEX 774	LEGEX 776	LEGEX 9106	LEGEX 12128*
Measuring range	X axis	500 mm	700 mm	700 mm	900 mm	1200 mm
	Y axis	700 mm	700 mm	700 mm	1000 mm	1200 mm
	Z axis	450 mm	450 mm	600 mm	600 mm	800 mm

\* Custom-made model. For information about **LEGEX 12128**, contact your local Mitutoyo sales office.  
 Note: For measuring table, the standard specification is ceramic coating. A hand scraper version is available as a made-to-order item.

### LEGEX Series Accuracy Unit: $\mu\text{m}$

Probe used	Length measurement error* <sup>1</sup> ISO 10360-2: 2009
<b>MPP-310Q</b>	$E_0, \text{MPE} = 0.28 + L/1000^{*2}$

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

\*2 L = Measuring length (unit: mm)

Note: For **LEGEX 12128**, contact your local Mitutoyo sales office.



Refer to the **LEGEX** Series Brochure (E16012) for more details.