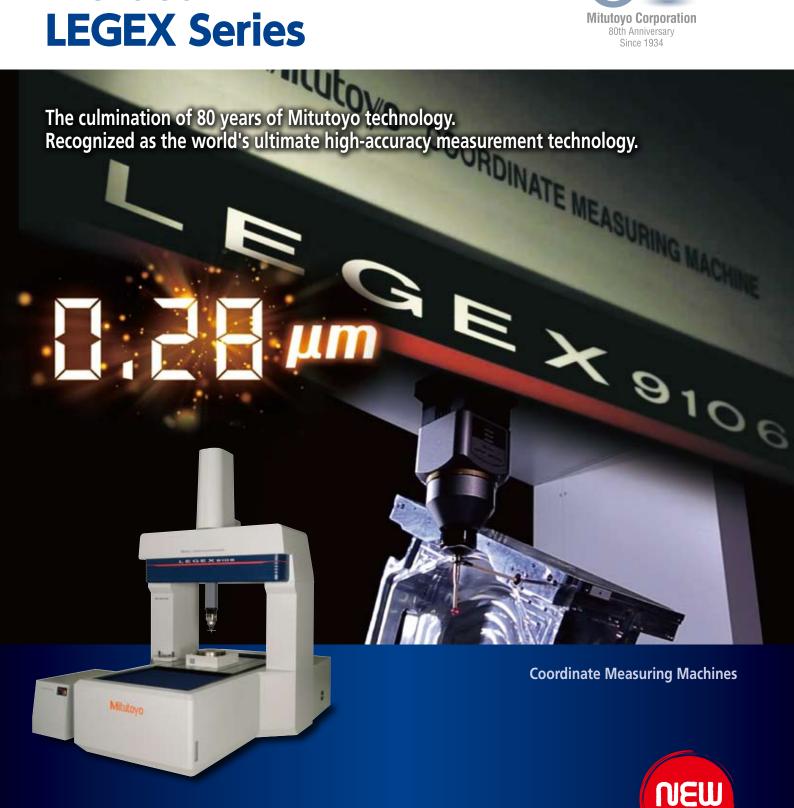


Ultra-high Accuracy CNC Coordinate Measuring Machine

MICROCORD LEGEX Series





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LEGEX Series

The Pinnacle of CNC Coordinate Measuring Machine Technology

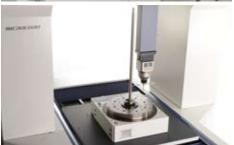
FEATURES

- Newly developed and designed from the elemental technology level upward. Elimination of all possible sources of measurement error far surpasses conventional equipment and results in world-leading accuracy: length measurement error Eo, MPE = (0.28+L/1000) µm
- Fixed bridge/moving table construction optimal for high accuracy measurement. 'Center of gravity' type drive system places the drive units near the center of gravity of each slide for best dynamic performance. Improved drive mechanism practically eliminates static and dynamic errors to ensure ultra-accurate results.

SPECIFICATIONS

Items		LEGEX574	LEGEX774	LEGEX776	LEGEX 9106	
Measuring range	X axis	500mm	700mm		900mm	
	Y axis	700mm		1000mm		
	Z axis	450	0mm 600		mm	
Measurement method		Ultra-high precision linear encoder				
Maximum measuring speed		200mm/s				
Maximum acceleration		980mm/s ²				
Resolution		0.00001mm				
Guide method		Air bearing				
Measuring table	Material	Cast iron*				
	Size	550x750mm	750x750mm		950×1050mm	
	Tapped insert		M8×1.25mm (for workpiece clamping)			
Table loading	Maximum workpiece height	695mm		860	860mm	
	Maximum table loading	250kg	500kg		800kg	
Mass (main unit)		3500kg	5000kg	5100kg	6500kg	
Air supply	Pressure	0.5MPa				
	Consumption	120L/min under normal conditions (air source: 160L/min or more)				





Main unit accuracy

Probe	Length measurement error ISO 10360-2:2009 (JIS B 7440-2:2013)
MPP310Q	$E_{0,MPE} = (0.28 + L/1000)\mu m$ (Temperature environment 1) $E_{0,MPE} = (0.3 + L/1000)\mu m$ (Temperature environment 2)

^{*}L = measured length (mm)

Installation temperature environment

	Temperature environment 1	Temperature environment 2	
Temperature range	19 - 21°C	18 - 22°C	
Rate of change	0.5°C/h		
Gradient	1.0°C/m		

Mitutoyo

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 http://www.mitutoyo.co.jp



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Coordinate Measuring Machines

Vision Measuring Systems

Form Measurement

Optical Measuring

Sensor Systems

Test Equipment and Seismometers

Digital Scale and DRO Systems

Small Tool Instruments and Data Management

^{*}Ceramic coated type is also available as an option.

^{*}Table at right defines temperature environments 1 and 2