

Ultra-High Accuracy CNC Coordinate Measuring Machine





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The breakthrough CMM created through integration of cutting-edge technology and Takumi's* abilities.

* Takumi is a Japanese word meaning "artisan" with superb craftsmanship.

SMS

 $E_{0,MPE} = (0.23 + 0.7L/1000) \mu m$

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LEGEX SIDE

LEGER

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Serves as the reference machine capable of highly accurate measurements

The LEGEX [Takumi Model] not only analyses and eliminates the error factors found in conventional CMM models but also utilizes the outstanding Takumi's skills.

Maximum permissible error of length measurement *E*₀, MPE = (0.23+0.7L/1000) μm

Even when measuring a 500 mm length, the error is less than 0.58 μ m.



Mitutoyo has introduced the Takumi Meister System to pass on the outstanding skills of artisans.

Specifications

Items	Model	LEGEX574	LEGEX774	LEGEX776	LEGEX9106	
Measuring range	X axis	500 mm	700 mm		900 mm	
	Y axis		700 mm		1000 mm	
	Z axis	450 mm 600		mm		
Maximum measuring speed		200 mm/s				
Maximum acceleration		980 mm/s ²				
Resolution		0.00001 mm (0.01 µm)				
Guide method		Air bearing				

Main unit accuracy

Probe	Maximum permissible error of length measurement E0,MPE	
MPP-310Q (ø4×18)	(0.23 + 0.7L/1000) μm	

Installation temperature environment

Temperature range	19 to 21 °C	
Temperature change	Per hour	0.5 °C
remperature change	Per day	1.0 °C
Temperature gradient	Vertical	1.0 °C/m
remperature 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.



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