

Octagon

Horizontal Length Measuring Machine



OCTAGON- LMM 100

Technical Specifications

Horizontal Comparator for Internal Measurements

- Measuring Uncertainty : $(0.8 + L / 1000) \mu\text{m}$ L in mm @ $20 \pm 1^\circ\text{C}$
- Repeatability : $0.5 \mu\text{m}$
- Resolution : $0.1 \mu\text{m}$
- Measuring Range : 100mm
- Measuring Table lift : 50mm
- Measuring force : 20gm
- Machine Display : Heidenhain DRO / Computer Display
- Overall Dimension : 600 x 150 x 400mm
- Net Weight : 50Kg.



Features

Octagon-LMM 100 is designed especially for the calibration of internal Diameters of Thread / Plain Ring gauges.

100% compliance with Abbe's comparator Principle.

High precision Electronics - Heidenhain, Germany and TESA Switzerland.

High precision Thread Measuring Ruby Styli, make Switzerland.

Fast and easy to use.

Results with high accuracy comparable to any universal length measuring m/c.

Constant measuring force over the entire measuring range.

Large work table precisely guided in Z direction with self weight balancing. Table load 25 kg.

Most affordable price.



OCTAGON-LMM 100 Horizontal Length Measuring Machine

Applications



Measurement of Effective Diameter of Thread Ring Gauge



Measurement of Diameter of Plain Ring Gauge

Swiss Make

Ruby Ball T Shape Stylus for measurement of pitch diameter of internal thread



Optional Set

Ball Dia.	Pitch
0.335	0.60
0.455	0.7 / 0.75/0.8
0.530	0.9
0.620	1.0
0.725	1.25
0.895	1.50
1.100	1.75
1.350	2.0
1.650	2.5
2.050	3.0 / 3.5
2.550	4.0 / 4.5
3.200	5.0 / 5.5
4.000	6.0

Standard Set

Ball Dia.	Pitch
0.620	1.0
0.725	1.25
0.895	1.5
1.350	2.0
1.650	2.5



Software (Optional)

Features :



Octagon LMM 100 Length measuring machine comes with additional option of interface software. The software is window based and can be used for data acquisition and generating reports. The main features as follows

- User friendly and provide guidance to the inspector.
- Automatic tolerance calculation.
- Facilitate to provide reports/certificate in line with ISO/IEC17025 compliance.
- Thermal error compensation facility (with additional Hardware)

Upgradation and Retrofitting Services



Retrofitting done for old Zeiss make optical ULM

Retrofitting

Octagon provides retrofitting services for precision length measuring machines with the world-class electronics from Heidenhain Germany.

Maintenance Services We provide maintenance services for precision metrology and laboratory equipments. We undertake annual maintenance contracts for precision metrology equipments.



Retrofitting done for old SIP make optical universal length measuring machine MU214

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OCTAGON PRECISION

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