

FLOATING CARRIAGE MICROMETER



- Measurement time saved upto 40% with the new electronic system .
- · Avoids calculation and measurement errors.
- · 100% assured reliability.
- Mechanical Floating Carriage Micrometer Upgradable to Electronic Model
- Software available for external thread gauges.

FCDM SOFTWARE:

- Automatic tolerance calculation.
- $\bullet \quad \text{Thread formula is evaluated automatically with following options.} \\$

Option No. 1 (FCDM V. 1.0.0)

- Thread Plug Gauge: (IS: 4218 (Part IV)-1976 Metric)
- Thread Plug Gauge: Metric, Metric-INTFIT and G-Thread.
- Taper Thread Plug Gauge: NPT & BSPT.
- With RS 232 Cable to connect the display unit to P.C.

Option No. 2 (Qualisyst Software: (External / Internal)

Thread gauge - ISO Metric M, ISO Metric MJ, Unified UNJ, UNC, Whitworth, ISO pipe G threads,ISO Trapezoidal, ACME Trapezoidal, Stub Trapezoidal, Miniature, BSW, BSF, BSC, BA, Buttress, Helicoil, Knuckle, screw threads as per various National & International standards.

- With RS 232 Cable to connect the display unit to P.C.
- Provide full traceability of gauge history, each measurement is recorded with the operator, the master gauge & the machine equipment used.
- Gauge history can be stored according to due date, type, department and nominal dimensions.

Standard Accessories of Electronic Model With Digital Display Unit (Accretech or Sylvac Optional)

 7 segment, 8 digit 7.8 x 3.5mm display unit

• Preset : Zero Setting

• ±Direction measurement

• mm / inch conversion

• Output: RS-232

• Resolution: 0.0001mm

Repeatability: 0.0002mm

 Accuracy with PHA - 13W or P10 probe: 0.002mm

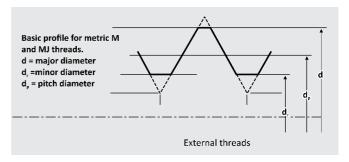
External Contact Foot Pedal (Optional)



Features :-

- All slide ways and wearing parts are hardened to prevent wear during prolonged use.
- Vee-centres are made from High Carbon High Chromium Steel for longer life.
- The micrometer and fiducial indicator anvils have Tungsten Carbide tips to provide greater life.
- Complete test certificate with accuracies for each parameter is supplied with the machine
- The "Odd Flute Tap" or "Radial Measurement Attachment" is supplied with all standard models.
- All the casting parts are stress relieved and painted.
- Tungsten Carbide Pads are provided for minimum wear at the Vguide ways for the centres.
- Designed to measure Metric, Whitworth, BSPT/NPT threads.

Application:-





Measuring window for threads measurement



Gauge History Report

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Calibration Certificate Formats

With Digital Dial (Mitutoyo or Sylvac Optional)

Used jointly with dead weight spindle head. It has digital LCD display with character height of 8.5mm.

• Output : Opto Electronic RS-232

Range: 25mmResolution: 0.001mmRepeatability: 0.001mm

Accuracy: 0.003mm

 Preset, Min/Max, Data memory, Tolerance indicator display





TECHNICAL DATA

FCDM Model 0 - 100 mm									
Specification	Mechanical	(With Digital Dial)	(With Electronic Display)						
Capacity	Dia. 4" / 100 mm								
Length between centres	8.25" / 215 mm								
Measuring Device	Drum	Dial	DRO & Probe						
Least Count	0.0002mm/0.00001"	0.001mm	0.0001mm						
FCDM Model 0 - 175 mm									
Specification	Mechanical	(With Digital Dial)	(With Electronic Display)						
Capacity	Dia. 7" / 175 mm								
Length between centres	12.5"/315 mm								
Measuring Device	Drum	Dial	DRO & Probe						
Least Count	0.0002mm/0.00001"	0.001mm	0.0001mm						

Standard Accessories of Mechanical Model Micrometer Drum

Non-rotating anvil type micrometers having 25 mm travel with mm graduations. The thimble of the micrometer is graduated for reading of 0.002 mm & the vernier scale facilitates direct reading of 0.0002 mm. Micrometer anvil has non rotating feature to avoid twisting of thread measuring wires and prisms. Measuring face shank dia. is 6.35mm and 10mm for 0-100mm and 0-175mm models respectively.



Range: 25mmRepeatability: 0.002 mm

Resolution: 0.0002 mmAccuracy: 0.004 mm

Dead Weight Spindle Head

Replaces the fiducial indicator and mechanical system

Range: 10/25mm.Repeatability: 0.0005mm



For measuring the odd flute, attachment is provided with all models.

Taper Thread Plug Measurement Accessory

For determining the effective, major and minor diameter of taper thread plug. Taper thread plugs of BSPT/ NPT type can be measured



Thread measuring prisms

Conforms to 1S-6150:1971 for measurement of minor diameter of screw thread. Available in four types of pairs - A, B, C, D, according to the type of thread and pitch



Accessories for thread measurements
Plain Cylindrical Standards (Setting masters)

Conforms to IS-4349:1987. They are produced to close limits of roundness and concentricity. Concentricity: 0.0025 mm



Thread measuring cylinders (Thread measuring wires)

Conforms to IS-6311:1978 and are supplied in pairs. These cylinders can be used for measurement of pitch diameter for various thread forms.

Available in 21 pairs from 0.17mm to 6.35mm

Hardness: 60 ±2 H RC



Female Centres

Optional accessory for holding small thread gauges, taps having male centres either at one or at both ends.

All centres are made from High Quality Alloy Steel material for longer life



MKT - 201



Manufactured by & Sales by

Aditya Engineering Company

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