

# FLOATING CARRIAGE MICROMETER



- Measurement timesaved 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.
- Thread formula is evaluated automatially 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, Buttess, 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.

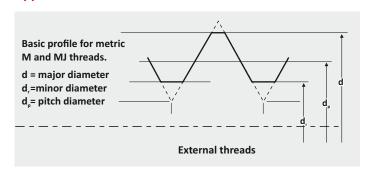
# Standard Accessories of Electronic Model With Sylvac Digital Display Unit

- 7 segment, 8 digit 7.8 x 3.5mm display unit
- · Preset: Zero Setting
- ±Direction measuement
- mm / inch conversion only for Sylvac
- Output: RS-232
- Resolution: 0.0001mm
- · Repeatability: 0.0002mm
- Accuracy with 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 Quality Alloy Steel for longer life.
- The micrometer and fiducial indicator anvils have Tungsten Carbide tips to provide greater life.
- Complete test Certificate is provided in two types for accuracies of 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 V-guide ways for the centers.
- Designed to measure Metric, Whitworth, BSPT/NPT threads.

# **Application:**

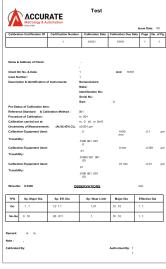




Measuring window for threads measurement



Gauge History Report



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: 25mm

Resolution: 0.001mmRepeatability: 0.001mm

Accuracy: 0.003mm

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



# TECHNICAL DATA

		10. 400	
FCDM Model 0 - 100 mm			
Specificaation	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 Mode	l 0 - 175 mm	
Specificaation	FCDM Mode	l 0 - 175 mm (With Digital Dial)	(With Electronic Display)
Specificaation Capacity			
·		(With Digital Dial)	
Capacity Length between		(With Digital Dial) Dia. 7" / 175 mm	

# **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 respectely.



- Range: 25mm
- Resolution:0.0002 mm
- Repeatability: 0.002 mm
- Accuracy: 0.004 mm

## **Dead Weight Spindle Head**

Replaces the fiducial indicator and mechanical system

• Range: 10/25mm. • Repeatability: 0.0005mm



#### **Odd Flute Atachment**

For measuring the odd flute, atachment 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





PAN: AACFA5688G

#### Thread measuring prisms

- Conforms to IS-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 Available in set (3-100 mm) or in loose (3-160 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

· Material: HSS



## **Female Centres**

Optional accessory or 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.

Authorised Distributor:





# Accurate Metrology And Automation Company

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Note: Due to continuous Improvements at our end, Specifications are subject to change without prior notice