

DIGITAL MICROMETER MODEL 49-56



The new model 49-56 precision digital micrometer combines a modern contemporary look with a robust mechanical design and new improved electronics, including a digital linear encoder. The system features a comprehensive software program for controlling test speed, auto zero, auto sample detect, selectable opening distance, selectable measurement range, selectable dwell time, built-in auto sample feed option, statistics, multiple languages and calibration records. Designed for thickness measurements of sheet materials, the 49-56 can be configured to meet any ISO, ASTM, EDANA or other International specifications for paper, corrugated, plastics, plastic film, tissue paper, nonwovens, textiles and other sheet like substrates.

Unlike conventional micrometers, the 49-56 precision micrometer offers a cantilever balance system to allow extremely light pressure measurements. This feature also allows adding or removing additional weights for multiple pressure applications.

APPLICATIONS

Paper, Paperboard, Corrugated, Cloth, Plastic, Plastic film, Textile Fabrics, Nonwovens, Battery Separators, Felts, Floor Coverings, Leather, Tissue Paper, Paper Towels, Handkerchiefs and Wipes



The 49-56 digital micrometer is available with an optional internal strip feeder unit for strips up to 75mm wide.

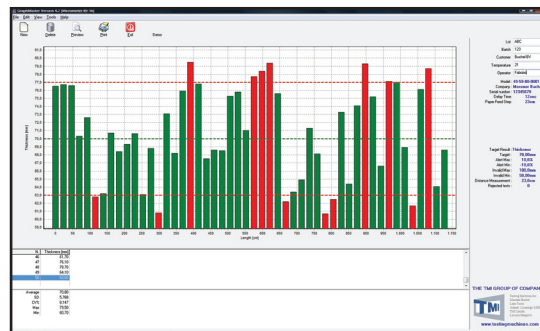
FEATURES

- Modern design
- Movable color TFT display with touch screen
- Measuring range 0.000 – 10.000 mm
- GraphMaster compatible
- High resolution option (*extra decimal*)
- Adjustable gap (*measuring height*)
- Metric or imperial units
- On screen statistics
- Sample detect sensor
- Multilingual user interface
- Special anvil diameters and dead weight loads available
- Internal calibration routine Serial port for RS232, Printer and GraphMaster output
- Optional internal strip feeder unit for strips up to 75mm wide
- Optional Gauge blocks available (*for verifying the instrument*)
- Optional footswitch (*to start test*)

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SPECIFICATIONS

Model number:	49-56
Measuring range:	0.000 - 10.000 mm 0 - 10000 μ m 0.00 - 394.00 mil
Measuring units:	μ m, mm and mil
Accuracy:	$\pm 1 \mu$ m or 0,1% of the reading, whichever is greater.
Opening Gap:	Adjustable 1.0 – 11.0 mm
Delay time:	Adjustable 0 – 30 seconds
Test mode:	OCO open – close – open COC close – open - close
Statistics display:	Nr of tests Nr of tests excluded from statistics Max Min Range Average Standard deviation Coefficient of variation
Lowering speed:	1 – 5.9 mm/sec (adjustable)
Lower anvil dimension:	58 mm diameter
Upper anvil dimension:	On request
Test pressure:	On request
Max. number of tests:	200 (in one test series).
Internal languages:	English, Dutch, German, French, Spanish, Finnish, Italian, Polish, Turkish
Serial output:	9 way female D-Sub connector, RS232C, Printer, GraphMaster
Footswitch input:	5 way DIN socket (pin 1 and 3)
Electrical supply:	90-260V AC / 47-63 Hz
Fuse:	1A(T) glass tube 5 x 20mm
Dimensions:	265 x 110 x 335 mm (l x b x h)
Weight:	± 13 kg



The 49-56 is compatible with GraphMaster™ software, exclusively from TMI.

STANDARDS

Textiles:	ASTM D 5729, ASTM D1777, EDANA 30.4, ISO 5084, ISO 9073-2
Paper:	TAPPI T-411, EN ISO 3034, ISO 534, APPITA 1301.426, PAPTAC D.4
Tissue Paper:	ISO 12625-3
Plastic Film:	BS 2782-6, DIN 53370, ISO 4593:1993, ASTM D6988, ASTM D 374
Nonwovens:	WSP 120.1 (INDA), WSP 120.6 (EDANA)

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