Digital Micrometer

Model 49-56, Art. nr. LD3580

Measuring thickness

The model 49-56 Digital Micrometer combines unmatched accuracy and resolution, a modern contemporary look. The Micrometer can be configured to meet ISO, ASTM, TAPPI, EDANA or other international specifications. The Micrometer offers a cantilever balance system to allow low pressure measurements. This feature also allows adding or removing additional weights for multiple pressure applications. The instrument is supplied with a sensing eye next to the anvil. When a sample is detected the test cycle automatically starts.

Test results

The rigid frame and linear encoder enable repeatable and accurate results. A large touchscreen displays test data to 0.1µm resolution. Individual and rolling average results are displayed after each test. A statistic mode provides further analysis. The software with intuitive menu allows easy operation.

Features

- Easy-to-use
- Small foot print
- Low foot pressure capabilities
- Units include, mm, µm, mil
- Optional strip feeder
- Suitable for multiple material applications
- Computer compatible with GraphMaster™ software

Applications

- Paper, corrugated, cloth, plastic, plastic film, textile fabrics, nonwovens, battery separators, felts, leather, tissue paper and others

International Standards

- ASTM D374, D1777, D5729, D6988,
- ISO 534, 3034, 4593:1993, 5084, 9073-2, 12625-3,
- APPITA 1301.426, TAPPI T-411, EDANA 30.4, PAPTAC D.4, DIN 53370, BS 2782-6
- WSP 120.1, WSP 120.6

(Is your required standard not here? Ask us.)

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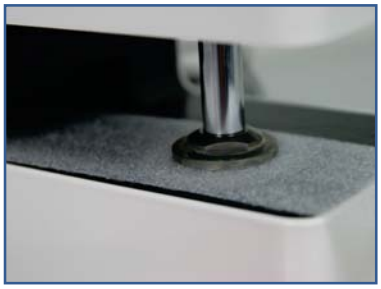
Reducing drift

The solid base of the micrometer is machined out of one piece. This, combined with improved electronics, limits the drift to nearly zero.

Cantilever



A cantilever mechanism allows for very light pressures. Compressible materials such as thin films and paper tissue can be measured.

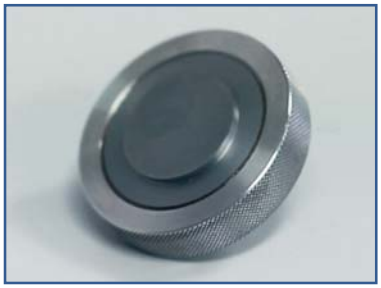
Testing made easy

Testing is quick and easy. Parameters are software controlled and can be adapted, such as gap height, auto test mode, auto-zero and dwell time.

Increase the pressure

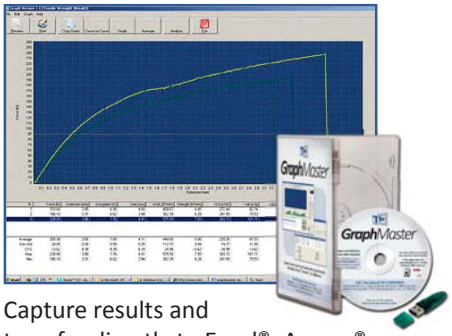
The micrometer has the option to vary pressure. A variety of pressure foot weights are available to increase the pressure on the upper anvil.

Combination anvil



An optional combination anvil allows the operator to change the diameter of the pressure foot. Different standards can be tested on one unit.

Powerful software



Capture results and transfer directly to Excel®, Access®, or clipboard with GraphMaster™ software. Test reports are automatically generated.

Specifications

Model	49-56 Series
Measuring units	µm, MM and mil
Measuring range	0 - 10 mm; 0 - 10,000 µm; 0 - 394 mil
Accuracy	within 0.001 mm (0.00004 in.) or 1% of paper thickness, whichever is better
	(Special configurations might influence the accuracy)
Anvil dimension	several options
kPA	several options
	(Contact us with your requirements)
Lowering speed	0.8 -5.9 mm/sec
Languages	9

Installation requirements

Electrical	90 - 230 V and 50/60 Hz
Dimensions	265 x 110 x 335 mm (LxWxH) 10.4 x 4.3 x 13.2 inch
Weight	± 13 kg (28.6 lbs)

Output

RS 232 and Printer connection

Optional accessories

GraphMaster™ software
Strip feeder
Foot switch
Support table

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