



Digital Micrometer

Model 49-56

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The model 49-56 Digital Micrometer combines unmatched accuracy and resolution.

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 an infrared sensor next to the anvil. When a sample is detected the test cycle automatically starts.

Reducing Drift

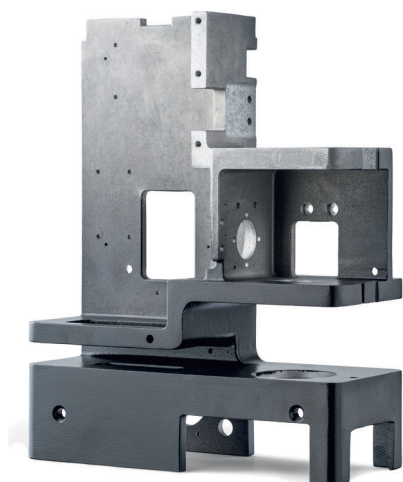
The solid base of the micrometer is machined out of one piece. This, combined with improved electronics, limits the drift to nearly zero.

Test Results

The rigid frame and linear encoder enable repeatable and accurate results.

A large touchscreen displays test data to 0.1 μm 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.



Technical Specification:

Measuring Units	μm , mm, 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 Dimensions	Several Options
kPA	Several Options (Contact us with your requirements)
Lowering Speed	0.8 – 5.9 mm / sec
Languages	9
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
Applications	Paper, corrugated, plastic, plastic film, textile, fabrics, nonwovens, battery separators, felts, leather, tissue paper and others
Output	RS232
Electrics	90 - 230 V / 50Hz / 60Hz
Weight	13 kg / 28.6 lbs
Dimensions	(W) 110 mm x (H) 335 mm x (D) 265 mm

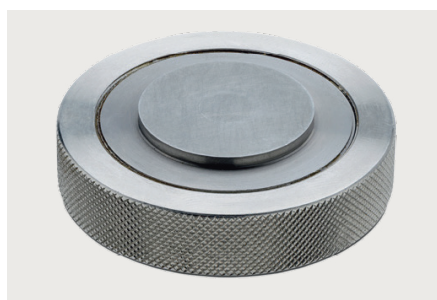
Features & Benefits:

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



Cantilever

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



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.



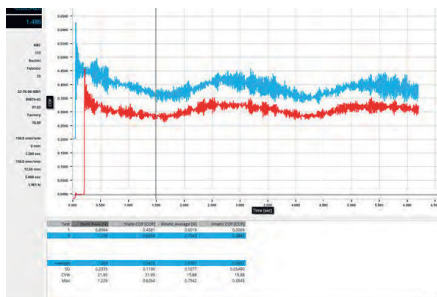
Testing made easy

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.



Various Pressures Available

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



Powerful software

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

Optional / Accessories:

- GraphMaster™ Software
- Strip Feeder
- Foot Switch
- Support Table

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Ordering Information:

Article Number	Article Description
Model 49-56	Digital Micrometer

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