

Handle-O-Meter

The Handle-O-Meter measures the combined effects of flexibility and surface friction of sheeted materials, a test method that has proven to correlate well with the actual performance of the material in production processes and finished product performance.

Originally developed by Johnson & Johnson, it has become a worldwide test standard for objectively rating the “handle” of nonwoven textiles and gauzes. It is also ideal for testing paper tissue, paper towels, plastic film and light fabric.

Tests are quickly accomplished by placing the test sample over a slot that extends across the instrument platform. The slot opening is adjustable to easily accommodate a variety of materials. A penetrator beam then pivots on a cam, engages the sample and forces it into the slot.

An LVDT in conjunction with a torsion bar, measures the resistance encountered by the penetrator blade as it moves into the slot. Stiff materials offer greater resistance to the motion of the beam as it moves into the slot. Rough materials also exert resistance as they are dragged over the edge of the slot. The combined resistance is reported on a 2 x 40 character display.

Two interchangeable beams are available which provides versatility in testing different materials. Quickly change between a 100 gram and 1000 gram beam as the test sample gets heavier. With auto ranging, the Handle-O-Meter immediately detects the beam in use and adjusts the range and resolution accordingly.

Advanced software enables the unit to compute and display qualitative analysis of the test results including averaging, standard deviation and the high & low readings of a series of tests.



▲ Handle-O-Meter measures the combined effects of flexibility and surface friction of sheeted materials.

Features

- Adjustable slot openings: 5, 10, 20 mm and 1/4 in
- Interchangeable beams, 100 gram & 1000 gram
- Auto-ranging
- 2 x 40 LCD display
- Statistical Analysis
- RS-232 communications port and serial port



Options

Curved Plates

Curved plates can be supplied for testing paper towels in accordance with Federal Specifications.

Teflon Coated Plates

Teflon plates are used primarily with plastic film to reduce static friction.

Serial Printer

A formatted report can be printed on demand, showing test results and a statistical analysis for a group of tests.

Chart Recorder

An electronic strip chart recorder provides another means of recording test results.

Physical Specifications

Dimensions	12" (304.8 mm) D x 10" (254.0 mm) W x 12.5" (317.5 mm) H
Gross Weight	54 lb (24.5 kg)
Net Weight	49 lb (22.2 kg)

Performance Data

Measurement Range

Standard Unit: 0-100 grams unit

Heavy Duty Unit 0-1000 grams

Measurement Resolution

1/10th of a gram

Slot Opening

5,10, 20 mm & 1/4 in

Display

2 x 40 LCD Digital Display

Power Requirements

Standard: 115 V \pm 10%, 60 Hz

Optional: 220 V \pm 10%, 50 Hz



Thwing-Albert

INSTRUMENT COMPANY

Representante Oficial para América do Sul
REGMED INDÚSTRIA TÉCNICA DE PRECISÃO LTDA

tel: + 55 11 3601-5700

fax: + 55 11 3601-5973

regmed@regmed.com.br

www.regmed.com.br

www.thwingalbert.com

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