

# Handle-O-Meter

## Softness/Handle

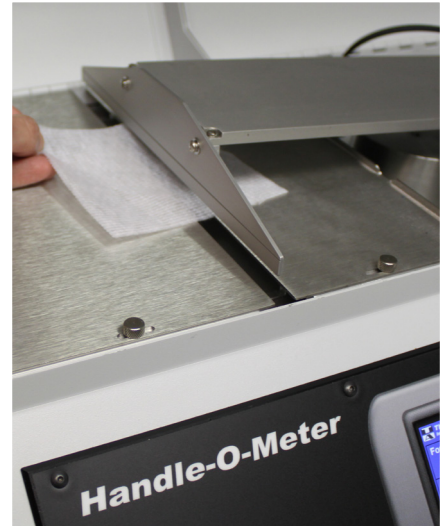
The Handle-O-Meter measures "handle" which is the combined effects of flexibility and surface friction of sheeted material such as nonwovens, tissue, toweling, film and textiles. The data generated has been shown to correlate well with the actual performance of the material in production processes and finished product performance.

Measurements are obtained effortlessly. Simply place the test sample over the slot that extends across the instrument platform and press test. A penetrator beam 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 touch screen display.

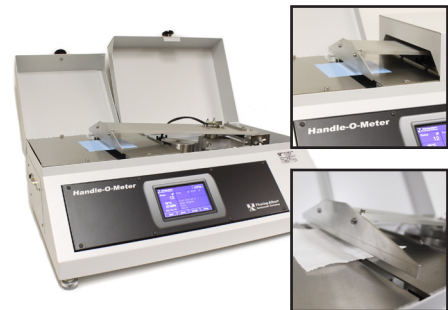
Two interchangeable beams are available which provides versatility for testing different materials. Quickly change between a 100 gram and 1000 gram beam. With auto ranging, the Handle-O-Meter immediately detects the beam in use and adjusts the range and resolution accordingly. The slot width is also adjustable to accommodate samples of varying thicknesses.

Test modes can be quickly set for single, double or quadruple measurements. The average is automatically calculated for double or quadruple tests.

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.



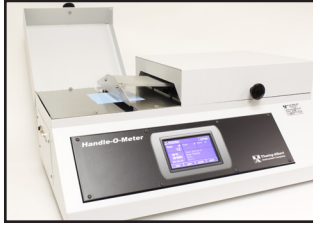
The Handle-O-Meter measures the combined effects of flexibility and surface friction of sheeted materials.



## FEATURES

- Touch Screen Controls
- Adjustable slot openings:  
5, 10, 20 mm, 1/4 in, 3/8 in
- Interchangeable beams:  
100 gram & 1000 gram
- Enhanced Statistical Analysis  
with MAP4 Software
- USB and Serial Port  
Connections
- Industry Standards:  
ASTM D2923, D6828-02  
TAPPI T498  
INDA IST 90.3  
NWSP 090.3.R0 (15)





## Physical Specifications

### Dimensions (D x W x H):

368mm x 587mm x 229mm (14.5" x 23 1/8" x 9")

**Gross Weight:** 24.5 kg (54 lb)    **Net Weight:** 22.2 kg (49 lb)

## Technical Specifications

### Measurement Range

Standard Unit: 0-100 grams  
Heavy Duty Unit: 0-1000 grams

### Measurement Resolution

1,000 gram beam = 1 gram  
100 gram beam = 1/10th of a gram

### Slot Opening

5,10, 20 mm, 1/4 in, 3/8 in

### Display

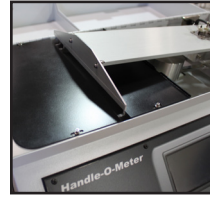
4" x 2.25" Touch Screen

### Power Requirements

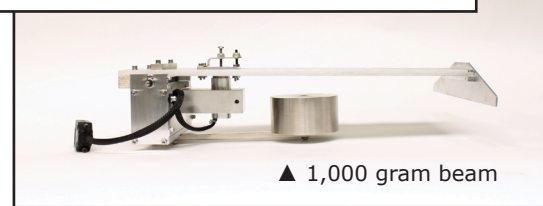
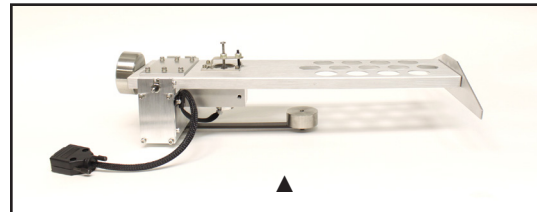
Standard: 115 V  $\pm$ 10%, 60 Hz  
Optional: 220 V  $\pm$  10%, 50 Hz

*Specifications subject to change without notice.*

## Teflon Coated Plates for Plastic Films



The Handle-O-Meter should be modified with Teflon coated plates for use with plastic film testing to reduce static friction.



▲ 1,000 gram beam

## MAP4 Materials Testing Software

MAP4 software comes equipped with preset standards available for testing, and allows the Handle-O-Meter to run using Windows based operating systems. This easy-to-use software designs, customizes and maximizes your testing procedures and final output using simple menus.



### Data Acquisition

Automatically capture test results and statistics for softness/handle of materials.

### Data Management

Include information identifying test conditions and sample type, add and delete tests from group data, mark files to view multiple curves and define viewable data range.

### Built-in Reporting

Create a report of a series of tests by selecting "Report" on the Handle-O-Meter or select specific test results to be included.