

# HANDLE-O-METER

The Handle-O-Meter measures the “handle” which is the combined effects of flexibility and surface friction of sheeted materials, such as tissue, non-wovens, toweling, textile and film.

## Operation

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.

The resistance encountered by the penetrator blade as it moves into the slot is measured and digitised for analysis.

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. With auto ranging, the Handle-O-Meter 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 and low readings of a series of tests.



## Features

- The universal test standard for objectively rating the “handle” of non-wovens, textiles and gauzes. Also ideal for testing paper tissue, paper towels, plastic film and light fabric
- Adjustable slot openings : 5, 6.35, 10 and 20 mm
- Interchangeable beams : 100 and 1000 gram
- Auto-ranging
- 2 x 40 LCD display
- Statistical analysis
- RS-232 and serial ports

*Non-wovens, Paper, Plastics, Textile, ...*

## Physical specifications

### Dimensions

25.5 x 30.5 x 32 cm (WxDxH)

### Net Weight

22.2 kg

## Options

Customise your Handle-O-Meter to make your tests easier, faster and more useful.

- Curved plates :  
can be supplied for testing paper towels in accordance with federal specifications
- Teflon coated 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

## Standards

**ASTM D 2923, TAPPI T-498**

## Performance data

### Measuring range

Standard unit 0-100 grams

Heavy duty unit 0-1000 grams

### Measurement resolution

Standard unit 0.01 gram

Heavy duty unit 1 gram

### Slot opening

5, 10, 20 mm and 1/4 "

### Display

2 x 40 LCD digital display

### Power requirements

Standard 115 V  $\pm$  10 %, 60 Hz

Optional 220 V  $\pm$  10 %, 50 Hz