

Handle-o-meter

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 extiles. 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 exported on a 2 x 40 character 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-OMeter 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.



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

Technical specifications

Measuring range

Standard unit: 0-100 grams

Heavy duty unit: 0-1000 grams

Measurement resolution

Standard unit: 0,195 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

Physical specifications

Dimensions

25,5 x 30,5 x 32 cm (W x D x H)

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