Bekk Smoothness Tester
58-05-00

The **Automatic Bekk Smoothness Tester** is a micro-processer controlled instrument for the determination of smoothness of paper and board according to the Bekk Method.

This air leak smoothness test is useful for very smooth surfaces, for example, coated label papers, coated free sheet, or other very smooth papers. Test results generate with the Bekk tester have shown excellent correlation with print smoothness evaluations using offset ink. Likewise, Bekk results have shown good agreement with subjective evaluations of low angle illuminated surface photomicrographs. Surface integrity is particularly important for printing papers. The surface fibers must be sufficiently bonded to those beneath the surface and the coating bond to the fiber matrix must be sound.

An innovative new feature is the Estimated Test Result. It was implemented to save the operator time when setting up a new test series and choosing the pressure interval and volume setting but also to save the operator time when doing a quick single test to see what the value of the paper approximate will be. The ETR value is calculated after the test has been started (50.66 kPa) based on the rate of rise of pressure. After 10 seconds the ETR value is displayed. During the test the ETR value is constantly re-calculated and updated until the ETR value at 48.00 kPa is the same as the final test result.

Features

•Open throat design enables large samples to be conventiently tested for rapid set-up and test

•Menu-driven software

•Air volumes 1/1 and 1/10th volume air receiver speeds up testing for smoother paper

•Pressure intervals 50.66-48.00 and 50.66-29.33 kPa

•Estimated Test Result: 10 seconds after start of test an ETR value is displayed, this represents the expected result at test completion

•Calibration adjustment using Paper tabs

•System check to check if the vacuum system is airtight

•Lists statistics on screen

•Multi-language standard

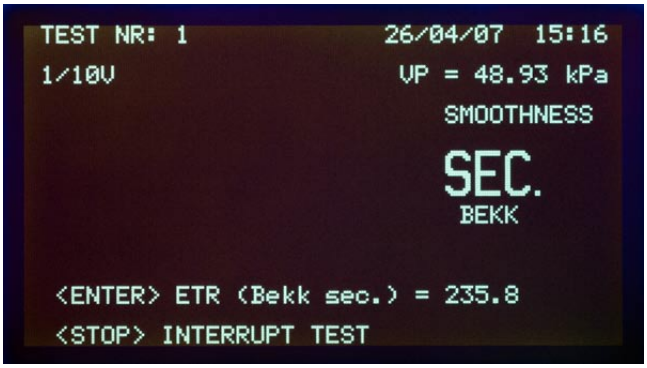
•RS-232 C serial data output

•Porosity Test Option

•Applications in Paper, Board

•Meets ISO 5627, TAPPI T-479, DIN 53107

▲ ***Bekk Head closeup***



▲ ***Display Screen***

Specifications

Model Single Head Model	58-05-00
Estimated Test Result	Approx. 10 seconds
Menu Selectable	Air volumes, Pressure interval
Data collection	RS-232 C serial data output
Display	Large black & white liquid crystal graphic high-contrast
Calibrations	using Paper tabs
Pressure Interval	50.66-48.00 and 50.66-29.33 kPa
Range	0-99,000

Physical Specifications

Dimensions W X D X H	390 mm x 530 mm x 415 mm (15.5 in x 21 in x 16.5 in)
Weight	51 kg (113 lb.)
Electrical	110VAC, 60 Hz, 150VA or 220VAC,50Hz, 150 VA
Air	600 kPa (instrument quality)
Alternative Language Options	French, German, Spanish or Finnish

Standards

ISO 5627	Paper and board -- Determination of smoothness (Bekk method)
TAPPI T-479	Smoothness of Paper (Bekk Method)
DIN 53107	Paper and board roughness/smoothness

Main Headquarters

Testing Machines Inc.
2 Fleetwood Court
Ronkonkoma, NY 11779
Tel: (631) 439-5400
Fax: (631) 439-5420
Info@testingmachines.com

Messmer Instruments
Unit F1 Imperial
Business Estate
West Mill, Gravesend
Kent DA11 0DL UK
Tel:+44 (0) 1474 566488
Fax:+44 (0) 1474 560310

Büchel BV
Fokkerstrat 24,
3905 KV
Veenendaal,
Netherlands
Tel:+33 (0)318 521500
Fax:+33 (0)318 5400358

Lako Tool and Manufacturing Inc.
7400 Ponderosa Road
Perrysburg, Ohio 43552
Tel: (419) 662-5256
Fax: (419) 662-8225

Lawson Hemphill
1658 G A R Highway
Swansea, MA 02777
Tel: (508) 679-5364
Fax: (508) 679-5396
Information@
lawsonhemphill.com

Adamel Lhomargy SARL
Z.A. de l'Habitat,
Bâtiment 6 Route
d'Ozoir, 77680
Roissy en Brie, France
Tel:+33 (0) 1 6440291
Fax:+33 (0) 1 64409211

TMI Canada
P.O. Box 203
Pointe-Claire Dorval
QC, H9R-4N9 CAN
Tel: (514) 426-5855
Fax: (514) 426-1557