

FOR IMMEDIATE RELEASE

Testing Machines Group

New Bekk Smoothness Tester from Büchel B.V.

(Netherlands) February 2007 – Büchel B.V. is releasing its "New Bekk Tester", 58-05 series. The Bekk tester is a microprocessor controlled instrument for the determination of smoothness of paper, foils 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 approx. 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.

Some important features of this tester include:

- Open throat design enables large samples to be conveniently tested for rapid set-up and test
- Menu-driven software
- Estimated Test Result:
- Calibration adjustment using Paper Tabs
- Large black & white liquid crystal graphic high-contrast display
- Menu selectable:
 - Air Volumes 1/1 and 1/10th volume air receiver speeds up testing for smoother paper
 - Pressure interval 50.66 – 48.00 and 50.66 – 29.33 kPa
- System check to check if the vacuum system is air tight
- Lists statistics on screen
- Multi-language standard
- RS-232 C serial data output
- Serial printer output
- Porosity Test Option

This includes applications in paper, foils and board. Meets ISO 5627, TAPPI T-479 and DIN 53107.

About TMI

Testing Machines Inc. (TMI) manufactures and markets physical property testing instruments for the paper, pulp, film, foil, ink, coatings, nonwoven, textile and corrugated industries. TMI has a network of sales offices and agents throughout the US and in over 50 countries.

The TMI Group of Companies consists of Testing Machines Inc., New York, Lawson-Hemphill, Swansea, Ma., Messmer Instruments Ltd., UK, Büchel BV, Netherlands, Adamel Lhomargy, France and TMI Canada.

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