FOR IMMEDIATE RELEASE

Testing Machines Group

New Horizontal Tensile Tester from Büchel B.V.

*(Netherlands) February 2007 – Büchel B.V. is releasing its "**New Horizontal Tensile Tester**", 84-58 series. An innovative step forward in tensile testing, the tester indicates the durability of papers which are subjected to repetitive straining and stressing in dry or wet conditions.*

The tensile measurement aids in assessing the suitability of a product for its end use and close relationship between tensile strain and fiber bonding serve to make this a very important test. Büchel B.V. has developed the Horizontal Tensile tester to perform these relevant tests in a professional way. The instrument has a build in large black & white liquid crystal display that is used in a conversational mode, allowing input of specimen identity and all relevant test parameters. The test results are displayed and transmitted via the RS232-C serial output. The transmitted data may be used in a data acquisition system. Statistical data is calculated and displayed after the operator ends a test series.

Some important features of this tester include:

- Test statistics generated at the push of a button.
- Load cell ranges: 50N, 100N, 250N and 500N
- Clamping lengths 50, 100, and 180mm
- Wet Test Option
- Load cell overload protected
- RS-232 serial data output.
- Serial Printer output
- Auto return after test complete
- Internal languages English, Dutch, German, French, Spanish, Finnish and Italian
- Menu driven pre-selection of parameters and infra-red sample detection
- Two preset test types are machine direction and cross direction
- Optional software can add hand sheet tensile test

Applications include newsprint, packaging papers, liner, medium, carton board, foils and low elongation films. Test speeds are selectable from 5 to 120 mm/min (0.2-5.0 in/min). Meets TAPPI T-494, ISO 1924, AS/NZ 1301.448s, BS EN ISO 1924-2, CPPA D34, DIN 53112 and SCAN P38.

The instrument determines the following measured and calculated values:

- Tensile Strength (kN/m – Newton – Lb)
- Elongation (%)
- Elongation (mm)
- Tensile Energy Absorption TEA (J/m^2)
- Tidx = Tensile Index (Nm/g)
- Eidx = Tensile Energy Absorption Index (J/kg)
- Tensile stiffness (kN/m)
- E-modulus (Gpa)

- Break length (km)
- Elongation (%) at 2/3 of maximum measured strength.

Statistical data:

- Average
- Maximum
- Minimum
- Standard deviation
- Coefficient of variation

Other relevant instrument information:

- Clamping length specimen 50, 100, or 180mm
- Specimen width 15mm, 25mm or 0.5 inch
- Test speed 5 – 120 mm/min (0.2 – 5.0 in/min)
- Return speed 200mm/min (8.0 in/min)
- Maximum travel (moving specimen grip) 120mm

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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