

TENSILE TESTING MACHINE

MODEL 84-03



Machine Features

- Fully digital testing system with high precision control and accuracy, includes automated computer control of test methods giving simplicity of operation.
- High resolution auto ranging load cells with accuracies better than +/-0.5% down to 1/1000th of the load cell capacity.
- Automatic recognition and calibration of load cells and extensometers, with instant calibration check facility.
- 800% overload capability of load cells without damage.
- Small footprint design, giving economy of bench and floor space.
- High efficiency pre-loaded self cleaning ballscrews for fast, quiet testing. Fitted with sealed for life lubricated end bearings.
- Crosshead guidance system providing precise alignment and smooth running.
- Precision crosshead control via digital AC servo drive and brushless servo motor giving maintenance-free operation and 4,000,000 steps per revolution positional control.
- High speed data collection systems for up to 4 synchronous channels.
- 6 VO channels for additional devices such as extensometers, micrometers, callipers, balances etc.
- High stiffness loading frames with solid specialised steel cross heads and rigid extruded support columns with T-slots for accessory mounting.
- Overload, overtravel and impact protection.
- Telescopic covers giving additional protection for ballscrews against dust and testing debris.
- Extensive range of grips and fixtures for tension, compression, flexural, shear, peel and product testing etc.
- A wide range of contacting and non-contacting extensometers is available including laser and video models.

Force Measurement

Universally Calibrated, better than Grade 0.5 EN 7500-1, DIN 51221, ASTM E-4, AFNOR A03-501. Range 0.4% to 100% minimum. Automatic identification of load cell. Resolution 1 part in 500000 with autoranging. Electronic load cell protection.

Extension Measurement

Full frame length to 0.001 mm. Resolution 0.001 min. Accuracy 0.01 mm. Absolute, relative, and auxiliary modes mm, or mm and percent. Programmable extension limits.

Speed Control

Drive system temperature and current protection. Positional jog speed 0.001mm/min to maximum. Speed setting increments 0.001 mm/min.

Load Frame

Rigid frame, using dual slide cross head guidance system and rigid extruded support column. Frame stiffness 50kN/ mm plus K factor facility built-in. Re-circulating ball screw with bellows. Electronic limit trips, total travel trips and customer programmable safety stops. Rubber mat front protection.

Software

Comprehensive **winTest™ Analysis** universal windows software covering tensile, compression, peel, shear, tear, cyclic, creep and multi stage testing. It includes a wide range of industry standard test methods and facility to create and store an unlimited number of further test methods. There is automated storage of all test data and ease of export to other software packages such as Word, Excel, Access and SPC systems for enhanced report generation. **winTest™ Reports** is an enhancement to winTest Analysis to add flexibility to data analysis and statistical reporting. The package provides a report generation capability that can include long-term statistics and control charts for all specified calculations. winTest Reports™ can also be configured to display headings, titles, company logos, graphs, charts, pop-up menus and specific technical information.

Options

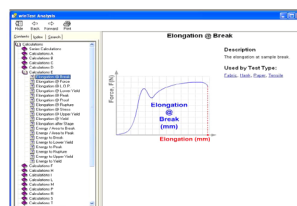
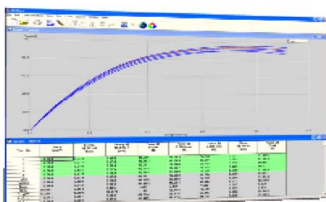
In addition to standard fixtures we can test your specimens in our applications laboratory and design grips and fixtures for custom applications. Models are available with extended frames and wider throat.

CE Marking

Conforms to all relevant European standards with UKAS certification.

Environmental

Energy efficient, lead-free and fully RoHS compliant





Model 84-03-01-0009

Range kN	5	Data sampling rate	Maximum 12kHz with up to 200Hz data frames.
Accuracy	+/- 0.5% of reading down to 1/1 000th of load cell capacity.	Overall dimensions W x O x H	590 x 450 x 1 575
Vertical space mm	1275	Weight kg	146
Crosshead travel/resolution mm	1100 by 0.001	Electrical supply	Dual input selectable 115 or 230V, 1 ph 50/60Hz.
Throat mm	295	Operating temp degree C	-10 to +40
Frame stiffness kN/mm	50	Operating humidity	+10 to +90% non-condensing
Speed range mm/min	0.001 to 2000	Machine Configuration	Table top, base cabinet available
Speed accuracy	+/- 0.1 % under stable conditions.	Number of Columns	2
Crosshead guidance	Linear slides integral within column	Available load cells	5N, 1 0N, 20N, 1 00N, 250N, 500N. 1 kN, 2.5kN, 3kN, 5k N Maximum of four load cells up to capacity of machine.
Max force at full speed kN	5	Spigot diameter mm	20
Max speed at full load mm/min	2000	Power kW	0.45

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Testing Machines Inc.
40 McCullough Drive
New Castle, DE 19720 USA
Tel: (302) 613-5600
Toll-free: (800) 678-3221
Fax: (302) 613-5619
Info@testingmachines.com

Büchel BV
t/a Messmer Büchel
Fokkerstraat 24,3905 KV
Veenendaal, Netherlands
Tel:+31 (0)318 521500
Fax:+31 (0)318 540358

**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



www.testingmachines.com

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