

Universal Testing Machines & Torque testing systems Sales brochure

Mecmesin

ELS-S 2500N

**OmniTest** 2.5

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KOLAS 공인교정기관



# Ensure product quality

Mecmesin has developed the OmniTest with VectorPro<sup>®</sup> software to perform strength tests on a variety of materials and finished products.

A range of rigid test frames enables the physical properties of metals, plastics, composites, wood, fabrics, glass and ceramics to be accurately characterised in tension and compression up to 50 kN.



# Choosing a universal tester

Your step-by-step guide to testing

Tensile and compression testing is an important part of design and quality control for ensuring product safety and performance. It is also an essential part of the testing regime that helps deliver cost-effective consistency and efficiency in manufacturing and assembly.

Whether for incoming Quality Assurance, Research & Development or Quality Control in production, you can select the most appropriate Universal Testing Machine for your testing requirements by following these six simple steps.



### Choose the suitable travel stroke

Having defined your test requirements and selected the load range, it's time to consider how much space is required to deform your specimen.



### Define your testing requirements

Before you begin looking for a universal tester, you need to define your testing requirements. This includes identifying the maximum load you will apply to the materials or products.







Choose the appropriate loadcells for your application, to ensure optimum precision when testing in the lower and upper ranges of the your universal tester.







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### Consider the testing speed

Stiff and brittle specimens need slower test speeds compared to elastic materials. Consider the required test speed for all of your applications.



### Consider the testing environment

Determine the specific data you need to collect and the experience level of your operators. Ensure the test software matches your needs.



### Check grip and fixture requirements

Identify the materials or products for testing and determine if they require tension or compression testing. Choose appropriate fixtures to securely hold the test specimen.





















# **OmniTest**

### Universal testing machines

To suit your materials and product testing requirements the OmniTest range comes in two designs. Single-column testers are available in capacities of 0.5 kN to 7.5 kN and twin-column testers cover between 10 kN to 50 kN.

All OmniTests are supplied as standard with VectorPro testing software for installation on your computer, laptop or tablet. Alternatively, when ordering an OmniTest Touch, the tester is delivered with a pre-configured touchscreen console for an integrated solution.

The versatility and ease-of-use of the OmniTest and VectorPro appeals to users, whatever their skill or experience. They all fit comfortably on your bench-top, making them ideal for use in QC and R&D laboratories.



**Elongation at break** 





















**Top load** 









**Tensile strength** 













# 0.5/1/2.5 kN

### Single-column UTM

Intuitive controls make the OmniTest easy to use even for novice operators. These 3 single-column models feature a precision ballscrew driving a crosshead upon which an ELS loadcell is mounted. Their small footprint makes them ideal for bench-top use where space is limited and forces are below 2.5 kN.

All models are suited for general purpose testing of specimens to determine their tension, compression, flexure, shear and fracture.

### OmniTest

Part	Model	Capacity (kN / lbf)		
820-000.5	0.5	0.5 kN / 110 lbf		
820-001.0	1	1 kN / 220 lbf		
820-002.5	2.5	2.5 kN / 550 lbf		

### **OmniTest** Touch

Part	Model	Capacity (kN / lbf)		
830-000.5	0.5 Touch	0.5 kN / 110 lbf		
830-001.0	1 Touch	1 kN / 220 lbf		
830-002.5	2.5 Touch	2.5 kN / 550 lbf		



ideal choice for a wide range of routine testing.

Mecmesin OmniTest 0.5 For applications up to 500 N. An extended column height of 1616 mm (64"), makes it best suited to elongation testing of highly elastic materials such as rubber and film. OmniTest 2.5 Suitable for tension and compression applications up to 2.5 kN, this is the OmniTest 2.5 OmniTest 1 -38.0 7.245 100.0 Constant 0.5 -38.0 7.245 100.0



### OmniTest 1 Touch

For tension and compression applications up to 1 kN. The long column height of 1416 mm (56"), makes the OmniTest 1 a preferred choice for the elongation testing of moderately elastic materials and products.



### Touchscreen test software





# 5/7.5 kN

### Single-column UTM

Enhanced rigidity and strength with intuitive controls make the OmniTest an excellent choice for testing mid-capacity stiff specimens below 7.5 kN.

These 2 single-column models feature a precision ballscrew with linear slide mechanism driving a solid crosshead fitted with an ELS loadcell.

Both models are suited for general purpose testing of specimens to determine their tension, compression, flexure, shear and fracture.

### OmniTest

Part	Model	Capacity (kN / lbf)		
820-005	5	5 kN / 1100 lbf		
820-007.5	7.5	7.5 kN / 1686 lbf		

### OmniTest Touch

Part	Model	Capacity (kN / lbf)		
830-005	5 Touch	5 kN / 1100 lbf		
830-007.5	7.5 Touch	7.5 kN / 1686 lbf		









# 10/25/50 kN

### Twin-column testing machines

As a versatile and easy-to-use universal testing machine, the dual-column OmniTests provide excellent rigidity with ample space between the columns. Ideal for testing high-capacity and largersized specimens up to 50 kN.

These 3 models feature twin precision ballscrews to drive a solid crosshead fitted with an ELS loadcell.

All models are suited for general testing of specimens to determine their tension, compression, flexure, shear and fracture.

### OmniTest

Part	Model	Capacity (kN / lbf)			
820-110	10	10 kN / 2200 lbf			
820-125	25	25 kN / 5500 lbf			
820-150	50	50 kN / 11000 lbf			

### OmniTest Touch

Part	Model	Capacity (kN / lbf)		
830-110	10 Touch	10 kN / 2200 lbf		
830-125	25 Touch	25 kN / 5500 lbf		
830-150	50 Touch	50 kN / 11000 lbf		











## Loadcells

### Enhanced Load Sensors (ELS)

A range of ELS loadcells are provided to ensure that you can test with optimum precision across the full capacity of your OmniTest universal tester. By selecting several ELS loadcells you can accurately test even the lowest of forces on a test frame rated to a much higher load.

CR Mecmesin

Each loadcell is automatically detected by the OmniTest without the need for user configuration. They all read from zero to their full nominal capacity and are accurate to  $\pm 0.5\%$  of reading from 2 - 100% of range. Class 0.5 according to ISO7500-1

Sensors		
Туре	Models available	Capacity (kN / lbf)
ELS	8	2 N to 500 N / 0.4 lbf to 110 lbf
ELS-S	7	100 N to 5kN / 22 lbf to 1100 lbf
ELS-T	9	100 N to 25 kN / 22 lbf to 5500 lbf
ELS-P	2	20 kN to 50 kN / 4400 lbf to 11,000 lbf



Discover Loadcells online visit mecmesin.com/els-loadcells

# ELS 5N

### ELS (2 N - 500 N)

The ELS comprises a robust dovetailed-mounting box with an internal loadcell complete with small fixing thread and occupies minimal space.



# Contraction

### ELS-T (100 N - 25 kN)

The ELS-T comprises a mounting box with an external S-beam loadcell situated beneath. It is designed for use with the OmniTest 7.5 and the twin-column test frames for higher loads and provides a rigid and secure connection for large, heavy grips and fixtures.



### ELS-S (100 N - 5 kN)

The ELS-S comprises the same dovetailed-mounting box with an external S-beam loadcell situated beneath. It provides a more rigid and secure connection for large, heavy grips and fixtures.



### ELS-P (20 kN - 50 kN)

The ELS-P comprises a mounting box with an external Pancake loadcell beneath. It is designed for use with the OmniTest 50kN twin-column test frame when testing higher forces and provides greater immunity to extraneous "off-axis" loading.

## **Extensometers**

### Universal testing machines

The OmniiTest test frames use as standard an internal displacement encoder to measure crosshead movement. For measuring tensile strain more accurately an extensometer can be connected directly to the test specimen to enable the precise calculation of material properties.

Short-travel contact extensometers are available for stiff materials like metals, reinforced composites and rigid plastics.

Long-travel contact extensometers are best suited for highly extensible materials such as elastomers, semi-rigid plastics and films.



▲ Short-travel axial extensometer



▲ Long-travel axial extensometers

# Guards

### Universal testing machines

Health and safety is extremely important when using machinery with moving parts and universal testers are no exception.

All OmniTest testers can be supplied with a standard safety guard. This includes a rigid metal frame with integrated polycarbonate panels to allow the operator to view the test area from outside.

Hinged doors are fitted with switch-activated interlock mechanisms to prevent system operation when open.







### Accessories

### Grips and fixtures

An extensive range of tensile grips, compression jigs and test accessories are available for use with all models of the OmniTest. For ease-of-use grips can be connected to the test stand and loadcell via threaded or quick-change adaptors.



Discover your next Mecmesin grips and fixture solution online - visit mecmesin.com/accessories





## VectorPro® software

### Software core functionality

VectorPro<sup>®</sup> is dedicated software for use with the OmniTest range of universal testing machines. It enables and stores test routines, acquires data from load sensors and displacement encoders then performs calculations on the data before generating test results for export and reporting.

By connecting the OmniTest to your own PC (or the touchscreen controller of the OmniTest Touch) you can take advantage of running in a VectorPro<sup>®</sup> environment to create a more sophisticated test system. Your configuration is automatically detected and the software guides you through the whole process with only the relevant parameters presented.

### **Key Features**

- Real-time graph plotting
- Immediate display of results
- Full data export
- Customised report generation
- Drag and drop interface
- Personalised workspace
- Secure user accounts

Powered by VectorPro®





Discover VectorPro software - visit mecmesin.com/vectorpro



![](_page_11_Picture_0.jpeg)

# VectorPro® testing

Your step-by-step guide to getting started

![](_page_11_Picture_3.jpeg)

Select

![](_page_11_Picture_5.jpeg)

![](_page_11_Picture_6.jpeg)

Analyse

B A -0.60N I

Design

![](_page_11_Picture_8.jpeg)

![](_page_11_Picture_9.jpeg)

05 Report

![](_page_11_Picture_11.jpeg)

Share

![](_page_11_Picture_13.jpeg)

![](_page_11_Picture_14.jpeg)

**OmniTest** 25 

By connecting the OmniTest to your own PC (or the touchscreen controller of the OmniTest Touch) you can unlock the power of VectorPro® to create a trully exceptional testing system to meet all your materials and product testing requirements.

![](_page_11_Picture_17.jpeg)

![](_page_11_Picture_18.jpeg)

Touchscreen test software

![](_page_12_Picture_0.jpeg)

# Control

### Take control of your testing requirements

The OmniTest Touch features a touchscreen controller which has been designed as an alternative to a desktop or laptop PC.

It provides full PC capability, operating with Microsoft Windows<sup>®</sup> Windows, specifically optimised for and pre-installed with Mecmesin's VectorPro<sup>™</sup> software making it ready for immediate use with the OmniTest.

For complete flexibility it is attached directly to the side of the test stand column and can be tilted or rotated for optimum ease of viewing.

### **OmniTest manual settings and controls**

Designed specifically for ease-of-use and precision when selecting test parameters. A simple and convenient control panel ensures easy selection of display parameters and a precise jog-control for quick crosshead positioning.

![](_page_12_Picture_9.jpeg)

▲ Colour display of speed, displacement and load

![](_page_12_Picture_11.jpeg)

▲ Four multifunction buttons for all settings and operation. Multi-language display.

![](_page_12_Picture_13.jpeg)

![](_page_12_Picture_14.jpeg)

▲ Lights indicate stand status

![](_page_13_Picture_0.jpeg)

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Data output   Pdf, xlsx, csv, txt, email and image files can all be exported from VectorPro Software   Pdf, xlsx, csv, txt, email and image files can all be exported from VectorPro Software	Operating System	64 bit only recommended. Windows 10 or 11 Pro or better				64 bit only recommended. Windows 10 or 11 Pro or better						
	Data output	Pdf, xlsx, csv, txt, email and image files can all be exported from VectorPro Software				Pdf, xlsx, csv, txt, email and image files can all be exported from VectorPro Software						

Measured without fixtures
\*\* Speed calibration as standard is between 1mm/min to full speed. Calibration below 1mm/min is available upon request.
\*\*\* Measured to centreline of loadcell

![](_page_14_Picture_0.jpeg)

Configure your OmniTest online: visit mecmesin.com/omnitest

![](_page_14_Picture_2.jpeg)

Mecmesin reserves the right to alter equipment specifications without prior notice. E&OE.

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