

Long Travel Extensometers

Long Travel Extensometers (MLTE) are designed to be used with Mecmesin OmniTest™ and MultiTest-dV test systems when running VectorPro™ MT materials testing software. They accurately measure strain directly from the test specimen to enable the most accurate calculation of the physical properties of highly extensible materials such as elastomers, semi-rigid plastics and films.

Description

The MLTE is an axial contact 'clip-on' extensometer, available in 700 mm, 1000 mm, and 1200 mm travel versions. Its adjustable, counter-balanced arm features knife-edge profile jaws, suitable for all specimen types, which may be left on through specimen failure.

The MLTE can be configured to suit the needs of your application; enabling variable gauge length and grip depth to accommodate your specimen. It mounts to the base plate of Mecmesin test stands allowing easy fitting of specimens within the extensometer jaws.

Applications

Precision tensile testing of highly extensible materials such as elastomers, flexible and semi-rigid plastics and films.

VectorPro MT plug-and-play compatibility

VectorPro MT is Mecmesin's dedicated materials testing software, used for the programming, control and acquisition of data from OmniTest and MultiTest-dV systems. It captures at high-speed the signals from load cells and extensometers, graphically displays stress/strain data and performs common materials testing calculations with the flexible transfer of raw data and results to Excel™ or a PDF™ report.



▲ MLTE 700, MLTE 1000 and MLTE 1200



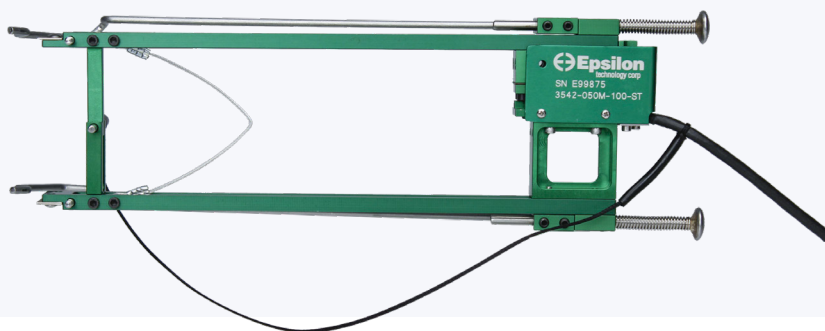
▲ MLTE 1200 mounted on MultiTest-dV 0.5 kN

Specifications

Long Travel Extensometer		MLTE 700	MLTE 1000	MLTE 1200
Part Number		432-841	432-842	432-843
Maximum Usable Range		510 mm (20.08")	780 mm (30.71")	980 mm (38.58")
Resolution		0.010 mm (0.0004")		
Accuracy		+/- 1% reading from first calibration point of 4 mm ISO 5893 class C & D, ISO 9513 class 1 (from 4 mm), ASTM E83 class C (from 4 mm)*		
Minimum Gauge Length		20 mm (0.787")		
Maximum Dimension	Height	965 mm (38.00")	1245 mm (49.02")	1465 mm (57.68")
	Width	265 mm (10.43")	265 mm (10.43")	265 mm (10.43")
	Depth	185 mm (7.28")	185 mm (7.28")	185 mm (7.28")
Weight		6 kg (13 lbs)	7 kg (15 lbs)	7.7 kg (17 lbs)
Connector		15-Way D-Sub		
Mounting		QC Type C or L depending on system (* Not supplied as standard).		
Suitable Stand to Mount to:		OmniTest 5* OmniTest 7.5* OmniTest 10 OmniTest 25	MultiTest 1-dV*	OmniTest 50 MultiTest 0.5-dV*

* Requires Mounting post QC Type C (Ø 20 mm) - purchase separately

‡ Calibrated over 0-300mm range with respect to ISO 9513



You may also be interested in Short Travel axial 'clip-on' extensometers by Epsilon - contact us for details.



FS 58553

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

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