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MultiTest-dV

Precision control tension and compression tester

Introduction

The MultiTest-dV provides outstanding value as a superior entry-level force tester up to 2.5 kN. Designed for precision-controlled compression and tension testing, its simple controls, backed by sophisticated electronics, make it the ideal choice for routine testing when combined with a digital force gauge.

An extensive range of grips and fixtures is available from Mecmesin to deliver an affordable solution which doesn't break your budget.



3 models

Load rating

- 0.5 kN
- 1.0 kN
- 2.5 kN

4 test modes

- manual up/down control
- move to a target displacement
- move to limit switches
- move to a pre-set load

Control panel display

Clear indication of speed, displacement and (when AFG connected) load.



Four simple buttons to operate

Just four multifunction buttons for all settings and operation.

Versatile and precise

Crosshead speed from 0.1 to 1200 mm/min
Positional resolution to 0.001 mm

Advanced Force Gauge (AFG)

The AFG interacts with the MultiTest-dV to enable controlled testing to a load limit or break. (order separately)

Grips and fixtures

Mecmesin offers a wide range of grips and fixtures to suit your needs.

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Multifunction wheel

Fine control allows precise setting of speed and position.
Coloured LEDs clearly indicate machine status during testing.

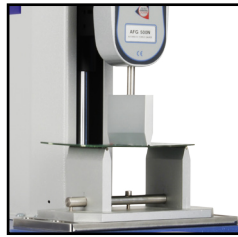
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Applications



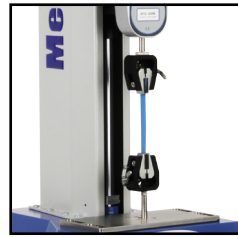
Pull out



Bend



Push in



Tensile



Compression

The MultiTest-dV mounted with an AFG force gauge allows a wide range of product tests, including:

- compressive bend
- tension
- top-load
- insertion/withdrawal
- peel and adhesion
- pull-off
- puncture

MultiTest-dV		0.5	1	2.5
Rated capacities	kN	0.5	1.0	2.5
	kgf	50	100	250
	lbf	110	220	550
Displacement				
Crosshead travel**		1200 mm (47.3")	1000 mm (39.4")	500 mm (19.7")
Maximum headroom**		1230 mm (48.4")	1030 mm (40.6")	530 mm (20.9")
Displacement resolution	mm	0.001	0.001	0.001
	in	0.000025	0.000025	0.000025
Positional accuracy		±0.105 per 500 mm (±0.0041 per 20")	±0.105 per 500 mm (±0.0041 per 20")	±0.105 per 500 mm (±0.0041 per 20")
Speed				
Speed range	mm/min	0.1 to 1200	0.1 to 1200	0.1 to 1200 †
	in/min	0.004 to 47.2	0.004 to 47.2	0.004 to 47.2
Speed accuracy		±0.2% of indicated speed	±0.2% of indicated speed	±0.2% of indicated speed
Speed resolution	mm/min	0.1	0.1	0.1
	in/min	0.004	0.004	0.004
Maximum no. of cycles per test		9999	9999	9999
Dimensions				
Height		1710 mm (67.3")	1510 mm (59.4")	941 mm (37")
Width		290 mm (11.4")	290 mm (11.4")	290 mm (11.4")
Depth		414 mm (16.3")	414 mm (16.3")	414 mm (16.3")
Vertical daylight		1359 mm (53.5")	1159 mm (45.6")	590 mm (23.2")
Throat depth*		70.5 mm (2.8")	70.5 mm (2.8")	70.5 mm (2.8")
Weight		26 kg (57 lb)	25 kg (55 lb)	24 kg (53 lb)
Electrical supply				
Voltage		230 V AC 50 Hz / 110 V AC 60 Hz	230 V AC 50 Hz / 110 V AC 60 Hz	230 V AC 50 Hz / 110 V AC 60 Hz
Maximum power requirements		120 W	200 W	250 W
Gauges, 10 models from 2.5 N to 2500 N (Advanced Force Gauge)				
Force gauge accuracy		±0.1% of full-scale	±0.1% of full-scale	±0.1% of full-scale

*Measured on centreline of gauge **Measured with force gauge and short extension rod fitted † 2.5 kN : recommended maximum speed = 750 mm/min (30 in/min) above 2 kN



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

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