

Top-load Testing

If you manufacture containers of any shape, size or material one of the most critical parameters in quantifying the design and quality of your finished product is its resistance to top-loading. Mecmesin supplies a unique range of highly accurate, versatile, robust and yet affordable top-load testing systems to major packaging manufacturers and processors across the globe.

Benefits...

- Perform max compressive load and free-height tests with 1 machine
- Push one button to operate
- Affordable
- Compact and portable benchtop design

This simple yet crucial test allows design and quality professionals to confidently.

Optimise Design

- Map an accurate compressive resistance profile of your container
- Avoid deformation or collapse during capping and stacking
- Reduce material usage

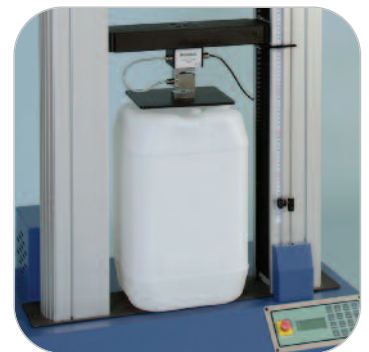
Ensure Quality

- Guarantee consistently high manufacturing quality
- Robust systems provide a long life of reliable performance on the factory floor
- Assess free-height and compressive load with one system, saving time, space and capital expenditure

Conform

Achieve compliance with international test standards, including,

- ASTM D2659-95(2005)
- ASTM D642-00(2005)
- ASTM D4577-05
- ASTM D4169-05
- ISBT Plastic Bottle Test Methods 2004
- ISO8113:2004
- DIN 55440
- DIN 55526
- DIN 53757



Top-load Systems

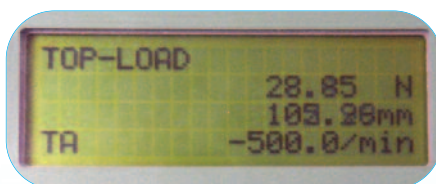
Features...

- Quick recording of max compressive load, container free height and deflection
- Integrated console control for easy lockable programming and data tagging (e.g. user ID, batch, date and time)
- Overload protection shuts down test if excess load applied
- Constant crosshead travel rate eliminates inaccuracies arising from operator error
- Rapid response electronics capture accurate peak compression loads
- Auto-export of results to PC, printer or datalogger



Automated Top-loader MultiTest 5-x

- Ideal for testing plastic (e.g.PET) bottles, aluminium and steel cans
- Rated to 5kN (1100lbf) capacity
- Throat depth** 95mm (3.7')
- Vertical daylight* 675mm (26.6')



load displacement speed

value
quality
support

Automated Top-loader MultiTest 10-x / 25-x

- Ideal for testing cardboard boxes and plastic or metal drums
- Rated to 10kN or 25kN capacity
- Vertical daylight* 1180mm (46.5')
- Width between columns 400mm (15.7')

simplicity
versatility
accuracy



Semi-automated Top-loader MultiTest-d

- Ideal for testing small plastic bottles
- Rated to 1000N (220lbf) capacity
- Precise and accurate digital speed control
- Throat depth** 70.5mm (2.8')
- Vertical daylight* 590mm (23.2')
- Does not perform free-height test

* measured without compression plates

** measured to centre line of loadcell

Accessories



50mm Ø Vented Compression Plate (with nose cone)

- Integrated nose cone positions containers centrally and avoids sample slippage
- Two circular vents allow air to escape from container during compression (according to test standards)
- Not suited to free-height test



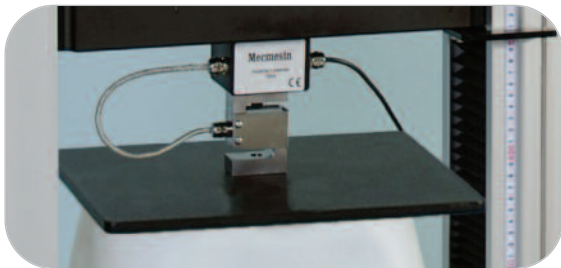
50mm Ø Slotted Compression Plate

- Crossed slotted vents allow air to escape from container during compression (according to test standards)
- Suitable for free-height test



130mm Ø Circular Compression Plate

- Large circular plate to cover complete surface area of the container top
- Self-levelling mechanism available for absolute parallelism
- Rigid plate for heavy duty applications



350mm Square Compression Plate

- Large square plate to cover complete surface area of the container top
- Self-levelling mechanism available for absolute parallelism
- Thick, rigid plate for heavy duty applications

30 Years Experience in Force & Torque Technology

Formed in 1977, Mecmesin Limited is today widely regarded as a leader in force and torque technology for quality control testing in design and production. The Mecmesin brand stands for excellent levels of performance and reliability, guaranteeing high quality results. Quality control managers, designers and engineers working on production lines and in research laboratories worldwide rely upon Mecmesin force & torque measurement systems for a range of quality control testing applications, which is almost limitless.

Visit us on the web at
www.mecmesin.com



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