

Mecmesin

testing to perfection

Vortex-d

Digital Motorised Torque Testing System
Torque Testing Solutions



The ideal test solution for any rotary components requiring torque analysis

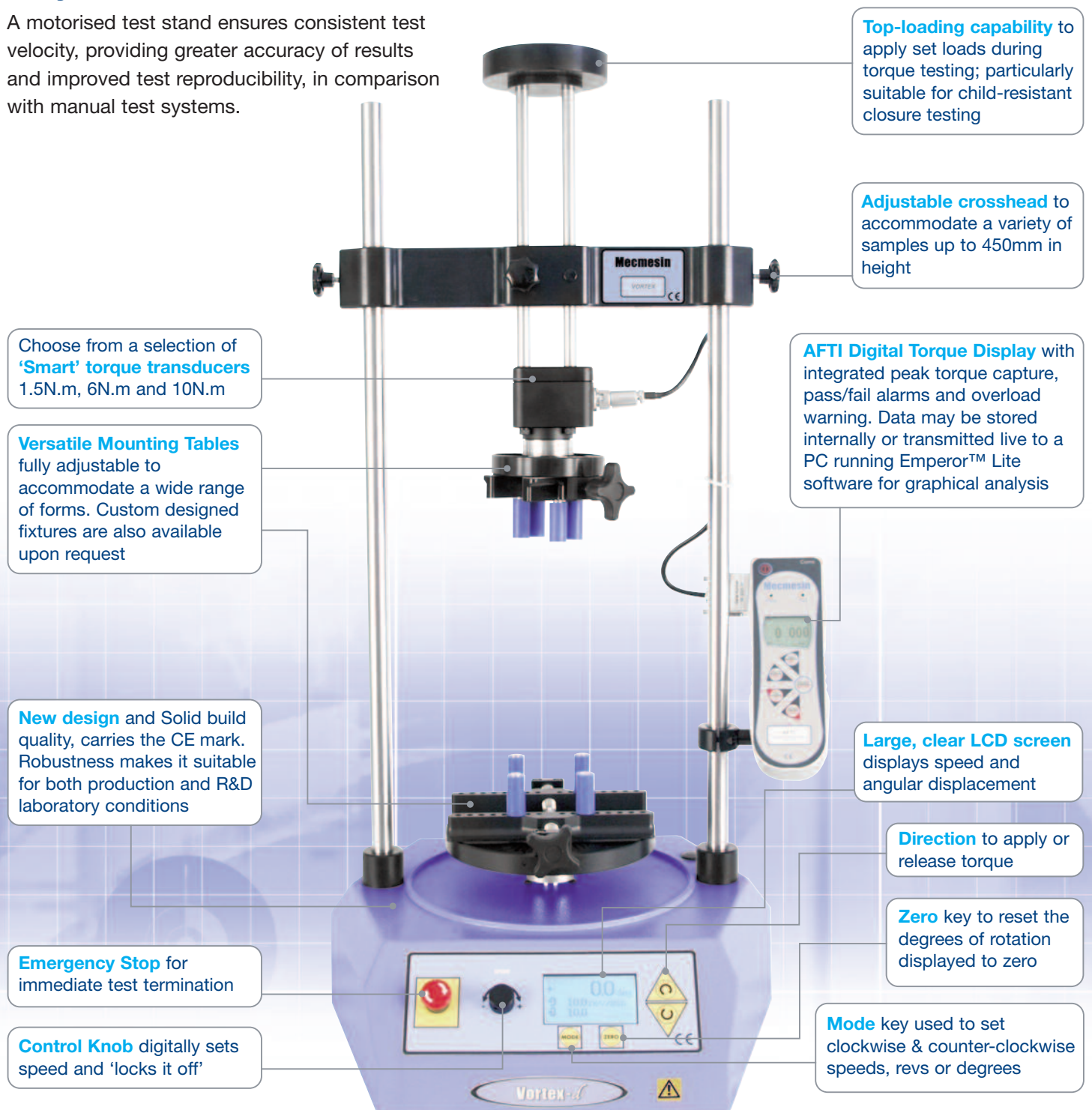
Vortex-d

Mecmesin's powerful yet easy-to-use Vortex-d motorised torque measurement system guarantees product quality from the R&D laboratory to the production floor.

Across a broad range of manufacturing industries, the Vortex-d sets the standard for precision torque testing, offering repeatability and accuracy at an affordable price. If you wish to measure torque as a way of assuring quality in production, conforming to relevant industry standards, optimising design, minimising waste and reducing costs, the Vortex-d offers a versatile and user-friendly solution.

Why use a motorised test stand?

A motorised test stand ensures consistent test velocity, providing greater accuracy of results and improved test reproducibility, in comparison with manual test systems.



Build the system that is right for you...

Each module is sold separately, so you only need to purchase the parts you require. Choose from the following modules, together with the Vortex-d, to build a complete system.



AFTI Display



Static torque transducer
(Choose from 1.5, 6 or 10N.m capacities)



Adjustable upper mounting table
10 - 78mm opening
(use with 6 & 10N.m transducers only)



Adjustable lower mounting table
10 - 190mm opening

Vortex-d System Technical Specifications

Measurement range (1.5N.m loadcell)	0 - 1.5N.m	0 - 15kgf.cm	0 - 13lbf.in
Measurement range (6N.m loadcell)	0 - 6N.m	0 - 60kgf.cm	0 - 52lbf.in
Measurement range (10N.m loadcell)	0 - 10N.m	0 - 100kgf.cm	0 - 90lbf.in
Speed range	0.1 - 20 revs/min		
Display resolution (torque)	1:5000 (e.g. 10N.m x 0.002N.m)		
Internal sampling rate	5000 Hz averaged down to 80Hz (medium) or 2000Hz (high) peak capture (user selectable)		
Peak hold (torque)	1st & ultimate peak capture at 2000Hz or 80Hz (user-selectable)		
Accuracy (torque)	± 0.5% of full scale		
Battery life (AFTI Display)	Approx 20 hours between charges		
Data output	Torque or torque & angle via RS232		
Calibration temperature	20°C ± 2°C		

Applications

- Screw closures
- Child-resistant closures (CRC)
- Automotive and aerospace controls
- Medical device testing
- All rotary components requiring torque analysis



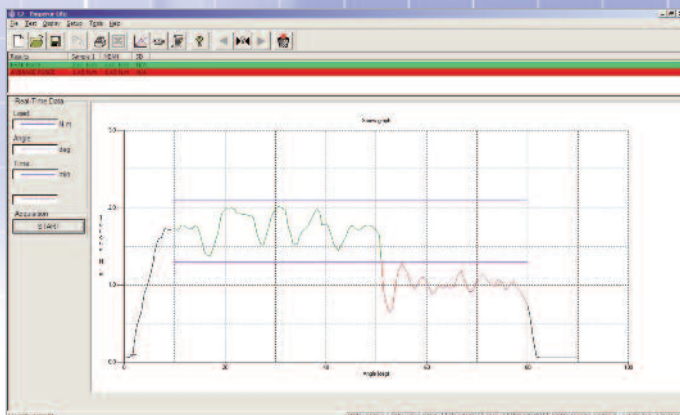
Watch bezel test



Bottle cap torque test

Improve your test assessment with Emperor™ Lite

Fully assess your products performance by transforming your test results into meaningful graphs including results and report with Emperor™ Lite.



Graphical representation of a typical test

- View test 'live' on PC screen
- Perform multiple calculations
- Easily identify and label critical measurement values
- Summary test report with graphical traces
- 'One-click' activation to automatically configure the software for the Vortex-d

*See Emperor™ Lite brochure for full details

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Mecmesin - a world leader in affordable force and torque testing solutions

Since 1977, Mecmesin has assisted thousands of companies achieve enhanced quality control in design and production. The Mecmesin brand represents excellence in accuracy, build, service, and value. In production centres and research labs worldwide, designers, engineers, operators, and quality managers endorse Mecmesin force and torque testing systems for their high performance across countless applications.

www.mecmesin.com



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The Mecmesin global distribution network guarantees your testing solution is rapidly delivered and efficiently serviced, wherever you are.



Certificate No. FS 58553

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