

## MultiTest 50-*i*

MultiTest 50-*i* computer-controlled test system

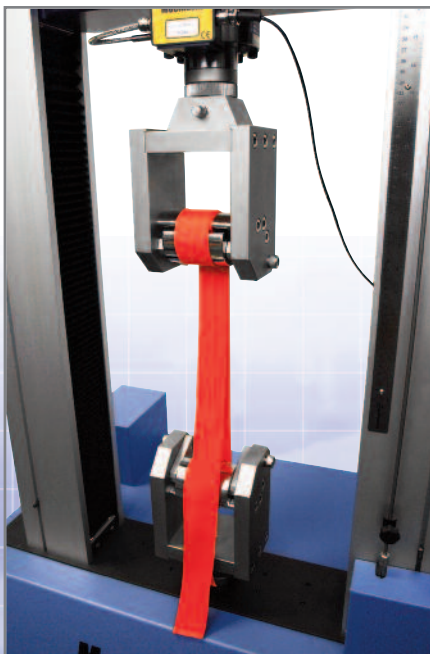
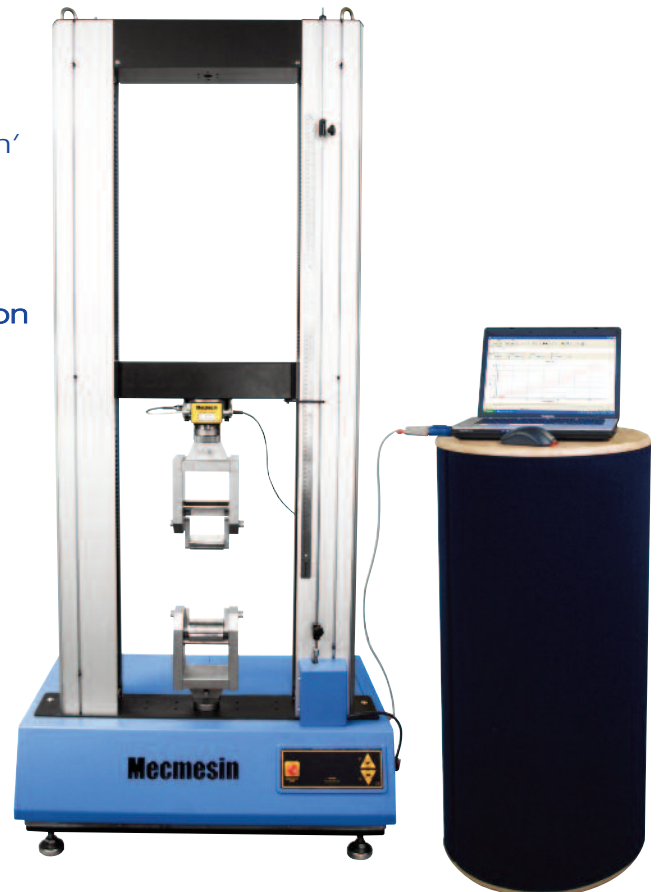
### Key Features

- Full control over test program and analysis
- User-friendly graphical interface
- Calculations performed at the 'touch of a button'
- Auto-loadcell recognition/configuration
- Accurate, high resolution loadcells
- Load accuracy of  $\pm 0.2\%$  of full scale
- Run to load, displacement, time or break detection
- Space to fit sample of height 1330mm (52.4")\*
- Rapid data acquisition rate: 2000Hz
- Rigid load frame
- IP splashproof membrane control panel
- Extensive range of grips and fixtures

\* measured without loadcell or grips

### Typical Applications

- Adhesives
- Aerospace
- Automotive
- Construction
- Medical Devices
- Metal
- Packaging
- Paper and Board
- Plastics and Rubber
- Textiles

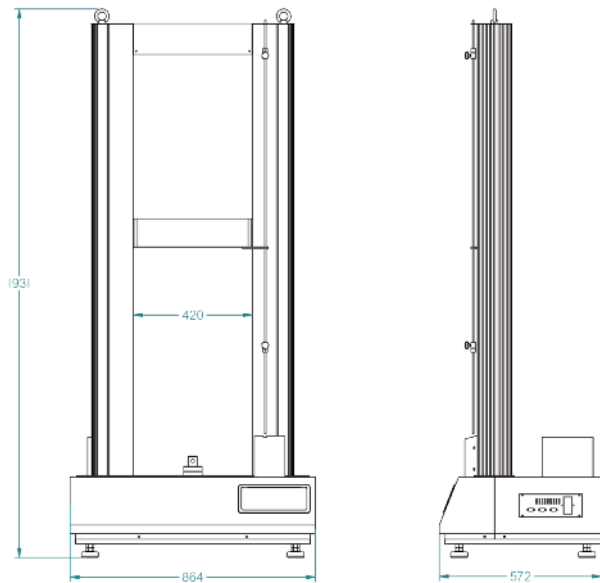


The MultiTest 50-*i* combines high performance, flexibility and ease-of-use with affordability. It's twin-column design makes it ideal for testing larger products and samples and for high capacity tension and compression test applications up to 50kN (11,000lbf).

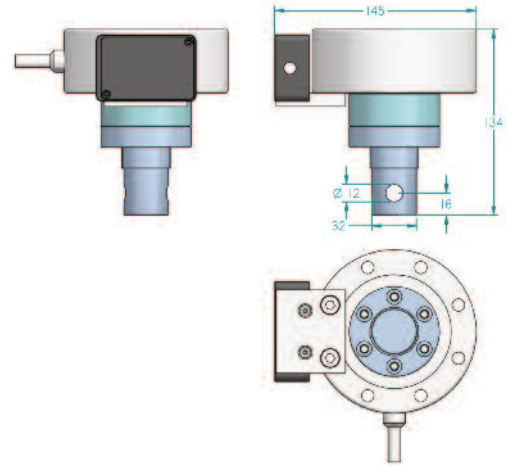
Controlled via Mecmesin's powerful Emperor software, the MultiTest 50-*i* combines full programming capability with a large selection of analysis options. This gives the user unparalleled test versatility across a range of tests including compression, flexural, peel, shear, tensile and top-load.

high performance  
easy-to-use  
cost-effective

## Dimensions



### 50kN Loadcell



TEST FRAME			
Rated capacity	50,000N	5000kgf	11,000lbf
Number of ballscrews	2		
Column spacing	420mm (16.5")		
Speed range	10 - 250 mm/min (0.4 - 10 in/min)		
Crosshead speed accuracy	±0.1% of indicated speed		
Vertical daylight	1330mm (52.4") measured without loadcell or grips		
Height	1931mm (76.0")		
Width	864mm (34.0")		
Depth	572mm (22.5")		
Weight	285kg		
Voltage	230V AC 50Hz / 110V AC 60Hz		
LOAD MEASUREMENT			
Available loadcell ranges	50 - 50,000N / 0.5 - 5000kgf / 11 - 11,000lbf		
Load measurement accuracy	±0.2% of full scale 5kN - 50kN ±0.1% of full scale 50N - 2500N		
Load measurement resolution	1:6500		
DISPLACEMENT			
Crosshead travel	1100mm (43.3") measured without loadcell or grips		
Position control resolution	±0.01mm (±0.0004")		
Positional accuracy	±0.050/800mm (±0.0020/31.5")		
SOFTWARE			
Digital display of load/length/speed	Yes		
Communication with test stand	Via RS232 port or USB port (converter supplied)		
Computer required	100Mb available HD, CD-ROM plus available RS232 port / USB port		
Operating system	Windows® 98, 2000, NT, ME, XP, Vista, 7		
Data acquisition speed	2000Hz		
Secondary input	Event input (switch)		
Data output	LPT1 (Printer port) ASCII file (Export to spreadsheet, SPC package etc...)		

### Common Specifications

Operating temperature	10-35°C / 50-95°F
Humidity range	Normal industry and laboratory conditions
Compensation for system movement	Yes
Loadholding	No
Graphical representation	External software
Output of test results to PC/Printer/Datalogger	Yes - includes auto-export to Microsoft Excel™

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

For further information on Emperor software please refer to the MultiTest-i brochure



DISTRIBUTOR STAMP

**Head Office**  
**Mecmesin Limited**  
 Newton House,  
 Spring Copse Business Park,  
 Slinfold, West Sussex,  
 RH13 0SZ, United Kingdom.  
 e. sales@mecmesin.com  
 t. +44 (0) 1403 799979  
 f. +44 (0) 1403 799975

**North America**  
**Mecmesin Corporation**  
 45921 Maries Road,  
 Suite 120, Sterling  
 Virginia 20166,  
 U.S.A.  
 e. info@mecmesincorp.com  
 t. +1 703 433 9247  
 f. +1 703 444 9860

**Asia**  
**Mecmesin Asia Co. Ltd**  
 91/1 Chaiyo Building, 11th Floor,  
 Room 1106, Rama 9 Road,  
 Huaykwang, Bangkok, 10310,  
 Thailand.  
 e. sales@mecmesinasia.com  
 t. +66 2 247 46 81  
 f. +66 2 247 46 82

**China**  
**Mecmesin (Shanghai) Pte Ltd**  
 Room 302, No. 172,  
 Daxue Lu - University Avenue,  
 Yangpu District, Shanghai, 200433,  
 People's Republic of China.  
 e. sales@mecmesin-china.com  
 t. +86 21 5566 1037 / 3377 1733  
 f. +86 21 5566 1057