



Description	Box compression tester with computer control from external PC and software dedicated to testing corrugated board boxes and cartons.	Crosshead guidance	Linear slides integral within column
Construction	Rigid Moving platen driven by 4 recirculating ballscrews. Platen parallelism better than 1:4000. Load readings are taken from an average of 4 balanced load cells to compensate for the effect of any off centre loading.	Max force at full speed kN	50
		Max speed at full load mm/min	500
Range kN	50	Max carton size mm	1000 × 1000 × 1000
Accuracy	+/-0.5% of reading down to 1/1000 th of load cell capacity	Data sampling rate	Maximum 12kHz with up to 200Hz data frames.
Vertical space mm	1100	Overall Dimension W × D × H Overall width does not include display.	1420 × 1020 × 2000
Crosshead travel/resolution mm	1050 by 0.001	Weight kg	820
Platen size mm	1000 × 1000	Electrical supply	Universal input. (de-rate max speed at 115V)
Frame stiffness kN/mm	75	Operating temp degree C	-10 to +40
Speed range mm/min	0.001 to 500	Operating humidity	+10 to +90% non-condensing
Speed accuracy	+/-0.1% under stable conditions	Number of Columns	4

Machine Features

- Fully digital testing system with high precision control and accuracy, includes automated computer control of test methods giving simplicity of operation.
- Four averaging high resolution auto ranging load cells with accuracies better than +/-0.5% down to 1/1000th of the load cell capacity.
- Automatic recognition and calibration of load cell and extensometers, with instant calibration check facility.
- 800% overload capability of load cells without damage.
- Compact design, giving economy of floor space.
- Four high efficiency pre-loaded self clearing ballscrews for fast, quiet testing. Fitted with sealed for life lubricated end bearings.
- Crosshead guidance system providing precise alignment and smooth running.
- Precision crosshead control via digital AC servo drive and brushless servo motor giving maintenance free operation and 4,000,000 steps per revolution positional control.
- High speed data collection systems for up to 4 synchronous channels.
- 6 I/O channels for additional devices such as extensometers, micrometers, callipers, balances, etc.
- High stiffness loading frames with specialised steel crossheads and rigid extruded support columns with T-slots for accessory mounting.
- Overload, overtravel and impact protection.
- Telescopic covers giving additional protection for ballscrews against dust and testing debris.

Force Measurement

Universally calibrated, better than Grade 0.5 EN 7500-1, D IN 51221 ASTM E-4. AFNOR A03-501. Range 0.4% to 100% minimum. Automatic identification of load cell. Resolution 1 part in 500000 with autoranging. Electronic load cell protection.

Extension Measurement

Full frame length to 0.001mm. Resolution 0.001 min. Accuracy 0.01mm. Absolute, relative and auxiliary modes mm, inch and percent. Programmable extension limits.

Speed Control

Drive system temperature and current protection. Positional jog speed 0.001mm/min to maximum. Speed setting increments 0.001mm/min.

Load Frame

Rigid frame, using dual slide crosshead guidance system and rigid support column. Frame stiffness 75kN/mm plus K factor facility built-in. Re-circulating ballscrew with bellows. Electronic limit strips, total travel trips and customer programmable safety stops.

Software

Comprehensive winTest™ Analysis universal windows software covering, tensile, compression, peel, shear, tear, cyclic, creep and multi stage testing. It includes a wide range of industry standard test methods and facility to create and store an unlimited number of further test methods. There is automated storage of all test data and ease of export to other software packages such as word, excel, access and SPC systems for enhanced report generation. winTest™ Reports is enhancement of winTest Analysis to add flexibility to data analysis and statistical reporting. The package provides a report generation capability that can include long-term statistics and control charts for all specified calculations. winTest Reports™ can also be configured to display headings, titles, company logos, graphs, charts, pop-up menus and specific technical information.

Options

In addition to standard fixtures we can test your specimens in our applications laboratory and design special grips and fixtures for custom applications. Models are available with extended frames and wider throat.

CE Marking

Conforms to all relevant European standards with UKAS certification.

Environmental

Energy efficient, lead-free and fully RoHS compliant.

