



Floor-standing Box Compression machines with full computer control and precision AC servo drive system. Rigid 4-column load frame with lower platen mounted on 4 balanced load cells for improved accuracy and tolerance of uneven loading.

## Made to Measure

- Fully digital testing system with high precision control and accuracy, includes automated computer control of test methods giving simplicity of operation.
- High resolution load cells with accuracies better than +/-0.5% down to 1/1000th of the load cell capacity.
- Automatic recognition of load cells and extensometers, with on-device storage of calibration parameters.
- Software calibration check facility for instant verification of machine accuracy.
- 800% overload capability of load cells without damage.
- High efficiency pre-loaded self cleaning 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 23-Bit positional control.
- High speed data collection systems for up to 4 synchronous channels.
- 6 I/O channels for additional devices such as extensometers, micrometers, calipers, balances etc.
- High stiffness loading frames with precision ground steel guide rods 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.

## Technical Specifications

	XBC1000-25	XBC1000-50	XBC1250-25	XBC1250-50	XBC1500-25	XBC1500-50
Force Capacity kN	25	50	25	50	25	50
Accuracy	Better than +/- 0.5% of reading down to 1/1000th of load cell capacity					
Platen size mm	1000 X 1000	1000x 1000	1250x 1250	1250 x 1250	1500 x 1500	1500 x 1500
Max Platen Opening mm	1050	1050	1300	1300	1550	1550
Position Control Resolution mm	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Distance between columns mm	1090	1090	1340	1340	1590	1590
Minimum Speed mm/min	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Maximum Speed mm/min	500	500	500	500	500	500
Speed Accuracy	+/- 0.1% under stable conditions					
Max force at full speed kN	25	50	25	50	25	50
Max speed at full load mm/min	500	500	500	500	500	500
Data Acquisition Rate (at PC)	500Hz as standard (optional 1000Hz)					
PC Connection	Ethernet (or USB via adaptor)					
Machine Configuration	Four column configuration. floor-standing					
Weight kg	630	690	850	920	1350	1430
Operating Temperature °C	-10 to +40					
Operating Humidity	+10 to +90% non-condensing					
Electrical Supply	Dual input selectable 115 or 230V. 1ph 50/60Hz					
Power kW	1	1	1	1	1	1

- Extended travel versions available on request.



### UK & INTERNATIONAL

RDM Test Equipment Ltd.  
39 Gold Nurseries Business Park  
Jenkins Drive  
Elsenham  
Hertfordshire  
CM22 6JX

Tel: +44 (0)1279 817171  
Email: sales@rdmtest.com

Website: rdmtest.com

### AMERICAS

RDM Test Equipment LLC.  
441 Old Hwy 8 NW  
Suite 203  
New Brighton  
Minneapolis  
MN55112  
USA

Tel: +1 651 766 2565  
Mobile: +1 651 485 2372

Email: sales@rdmtest.com  
Website: rdmtest.com