

BESMAK BCE-E SERIES SERVO ELECTROMECHANICAL CEMENT COMPRESSION / FLEXURAL TEST MACHINE with Touch Screen Controller





Capacity of Machine:	100 to 500 KN
Frame Type:	Rigid frame in 2-Column construction.
Controller:	Sematron Touch Series (Touch Screen)
Load Measuring Range:	2% - 100%
Speed of Load Control:	0,05 kN/s – 15kN/s
Max. Compression Test Space:	Up to 210 mm (contact us for other dimensions)
No. of Channels:	2

Cement compression Apparatus



Cement Flexural Apparatus





General Specifications of the Control Unit

Load Capacity	100 to 500 KN	
Measurement Resolution	Up to 20 Bit (Different resolutions are optional)	
LCD Screen	10" Capacitive Touch Screen (Changeable by request)	
OS of The Controller	Linux Based (Highly stable and reliable)	
Communication Port	USB	
USB Connection	Available – Internally;	
	Data Transfer (Report, Raw data etc.)	
	Communication with PC Software	
	For all external hardware connection.	
Memory	4 GB internal memory,	
	32 GB Expandable memory with SD card	
Data Acquisition	1000 data per second	
	(Different sampling speeds can be provided on demand)	
Data and Experiment	Can save, open and operate method-based test parameters.	
Operating System		
Reporting Types	By separate charts,	
	By serial reporting (More than one result in the same graphic)	
Number of Channels	2 channels in total (Optional)	
Control Type of Machine	Closed Double Loop PID	
Control Type –	 Automatic and Manual Mod options, 	
Loading Procedure	Constant Load,	
	Ramp Loading,	
	Step Loading,	
Fast Preloading	Available (With automatic contact detection.)	
Calibration Types	Single Point Calibration,	
Cambración Types	 Automatic calibration up to 10 Points (Machine makes automatic 	
	loading up to first calibration point and after entering reference value	
	continues to loading for the next point.)	
External Device Connectivity	Feasible to Connect Mouse, Keyboard and Printer (A4 Printers and Mini	
	Printers can be connected without using computer.)	
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Report Formats	PDF, Excel and program raw value format	
Report Customization	User defined logo and test information,	





Sematron Control Unit

Controller Features:

BESMAK BCE-E Series Compression Testing Machines are controlled by Sematron Touch Screen controller unit.

The controller unit (Sematron Touch Controller) has 2 channels Optional.

Controller unit can read and control all type of different sensors like LVDT, strain gauge, load cell and pressure transducers with high precision. Optional

User can calibrate each attached sensor and set PID values separately.

Controller unit allows **Automatic Calibration** and adjustment up-to 10 points. Due to special High Accuracy Sematron Touch Controller;

- User can perform ordinary compression tests with desired pace rate and high precision.
- User can hold the load at any desired point for a specific time



General Features of Data Acquisition and Control System:

- Capacitive touch screen.
- USB port to get results directly from LCD without use of pc.
- Accurate loading with high accuracy.
- User can attach internet modem directly to LCD controller
- User can email results directly from LCD by using internet.
- User can update test software by using USB drive.
- LCD has Linux based test software.
- Minimum 2 channels. (Optional)
- Automatic calibration and adjustment.
- 1000Hz (1kH) data acquisition speed of each channel.
- Closed loop PID and open loop control option is available.
- Results in pdf and can be converted in Excel.
- LCD controller has 4GB built-in data storage space and supports up-to 32GB.
- All type of printers can be attached directly to LCD without PC. And user can take print out of results.
- LCD controller also supports mini printer. (Optional)
- User friendly, easy to customized.
- Communication with PC through USB.



















