

2025

BESMAK

SERVO HYDRAULIC UNIVERSAL TESTING MACHINE

BMT-S

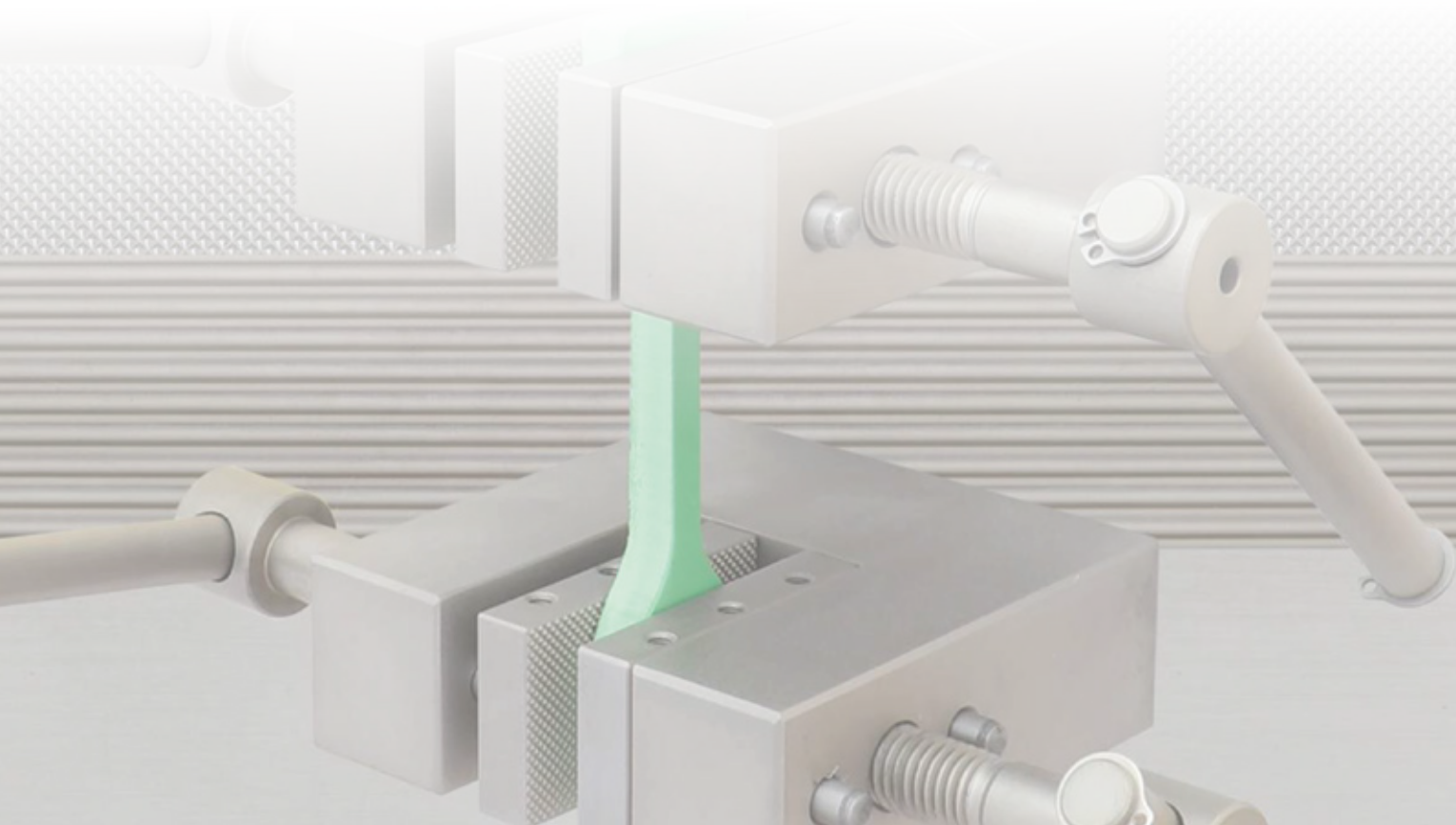


**These systems are
based on high precision
and high efficiency,
do not require
hydraulic oil, have low
maintenance costs, and
are environmentally
friendly.**

BESMAK® BMT-S series Universal Testing Machine, designed with a rigid frame in Column type construction and single workspace. Load measurement is made by a Load Cell. It is suitable for testing long samples or the samples having high strain capacity with its long-range piston stroke.

- Up to 2000 kN axial force capacity according to customers or/and test application requirement
- Special Electro-magnetic displacement sensor accurately measures actuator travel at the center of the load string
- An ideal system for testing common sized specimen with non-adjustable crosshead design
- Convenient working height and ergonomic controls improve operator productivity and comfort
- Long-stroke, high-speed actuator is well-suited for tension applications requiring repetitive testing of similar-sized specimens
- Anti-rotation system prevents the actuator from rotating during test stroke
- Choice of hydraulic configuration and machine performance to suit application

The frame, designed with high rigidity and robustness and mounted on the floor, provides high stability and performance for a wide range of applications including tensile, compressive, bending, and cyclical loading tests on almost all materials. These testing systems, engineered for high precision and durability, offer extensive test flexibility to meet changing user requirements. They are also designed with features that enhance test efficiency and improve the testing experience for the operator.





KEY FEATURES

LOAD MEASUREMENT AND CONTROL

Load measurement and control with a load cell of class 0.5, 2.5 kHz data acquisition Close-loop electronic controller "EDC", The electronic control unit of system is with 2500 samples per second data acquisition speed. Accurate synchronization between frame and sensors will be done/controlled by advanced PID or close loop configuration. Electronic control unit has total 5 channels (2 internal, 3 external). Due to these channels electronic control unit can control 5 no. sensors at same time.

HANDHELD UNIT

Handheld unit to move machine up and down without use of computer and to control jaws to fix sample into the machine easily accurately and safely, Load channel with a resolution of 20 bit, adjustable load control in between 0.01kN/s - 25kN/s, adjustable displacement control in between 0.1mm/min - 100 mm/min.

ELECTRONIC CONTROL UNIT

Electronic control unit is feasible to attach and control video extensometer, laser extensometer, LVDT, automatic extensometer, strain gauge, load cell, SSI and TTL type sensors (optional cards and plugs may required). Special Eeprom sensor plugs can store calibration and sensor data inside it. Due to this feature control unit can read sensor and calibration data even if user change it with new unit. User can read and control each attached sensor with control unit, for example; 2nd load cell, LVDTs and extensometers. can perform load and displacement controlled test, position measurement and control with position sensor of 1 micron resolution.



PRODUCT CODE	PRODUCT NAME
BMT-500/1500S	Servo Hydraulic Universal Testing Machine, 500 kN Tensile 1500 kN Compression Capacity
BMT-500/2000S	Servo Hydraulic Universal Testing Machine, 500 kN Tensile 2000 kN Compression Capacity
BMT-1000/1500S	Servo Hydraulic Universal Testing Machine, 100 kN Tensile 1500 kN Compression Capacity
BMT-1000/2000S	Servo Hydraulic Universal Testing Machine, 1000 kN Tensile 2000 kN Compression Capacity
BMT-1500/3000S	Servo Hydraulic Universal Testing Machine, 1500 kN Tensile 3000 kN Compression Capacity
BMT-100S	Servo Hydraulic Universal Tensile Testing Machine, 100 kN Capacity
BMT-150S	Servo Hydraulic Universal Tensile Testing Machine, 150 kN Capacity
BMT-200S	Servo Hydraulic Universal Tensile Testing Machine, 200 kN Capacity
BMT-250S	Servo Hydraulic Universal Tensile Testing Machine, 250 kN Capacity
BCO-C4000/ST	Fully Automatic Hydraulic Compression Machine, 4000kN Capacity
BCO-C5000/ST	Fully Automatic Hydraulic Compression Machine, 5000kN Capacity
BMT-300S	Servo Hydraulic Universal Tensile Testing Machine, 300 kN Capacity
BMT-400S	Servo Hydraulic Universal Tensile Testing Machine, 400 kN Capacity
BMT-500S	Servo Hydraulic Universal Tensile Testing Machine, 500 kN Capacity
BMT-600S	Servo Hydraulic Universal Tensile Testing Machine, 600 kN Capacity
BMT-800S	Servo Hydraulic Universal Tensile Testing Machine, 800 kN Capacity
BMT-1000S	Servo Hydraulic Universal Tensile Testing Machine, 1000 kN Capacity

PRODUCT CODE	PRODUCT NAME
BMT-1200S	Servo Hydraulic Universal Tensile Testing Machine, 1200 kN Capacity
BMT-1500S	Servo Hydraulic Universal Tensile Testing Machine, 1500 kN Capacity
BMT-2000S	Servo Hydraulic Universal Tensile Testing Machine, 2000 kN Capacity
BMT-2500S	Servo Hydraulic Universal Tensile Testing Machine, 2500 kN Capacity
BMT-3000S	Servo Hydraulic Universal Tensile Testing Machine, 3000 kN Capacity
BMT-4000S	Servo Hydraulic Universal Tensile Testing Machine, 4000 kN Capacity

FRAME

PRODUCT CODE	PRODUCT NAME
BMT-400S/FR	Servo-Hydraulic Universal Testing Machine Frame Only, 400 kN Capacity
BMT-1000S/FR	Servo-Hydraulic Universal Testing Machine Frame Only, 1000 kN Capacity
BMT-1200S/FR	Servo-Hydraulic Universal Testing Machine Frame Only, 1200 kN Capacity
BMT-2000S/FR	Servo-Hydraulic Universal Testing Machine Frame Only, 2000 kN Capacity
BMT-5000S/FR	Servo-Hydraulic Universal Testing Machine Frame Only, 5000 kN Capacity

**BESMAK is
the representative of
largest companies in industry
which are the active in
many countries around
the world and sales of
Construction Laboratory
Testing Equipments**

In the construction sector soil, asphalt, concrete, aggregates, cement, rock mechanics and construction materials for quality control testing laboratories aimed to provide high quality products using advanced technology and experience since it was established. In this way it's been one of the pioneering company in the international sector.

Our company imports, exports and technical support and has been producing hi-tech CNC machines on the 6300 m² closed area. We keep going R&D with our experienced engineers and we produced new design products in sector. Also electronic control units and software design made by our company too.



BESMAK

MATERIAL TESTING MACHINES



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