

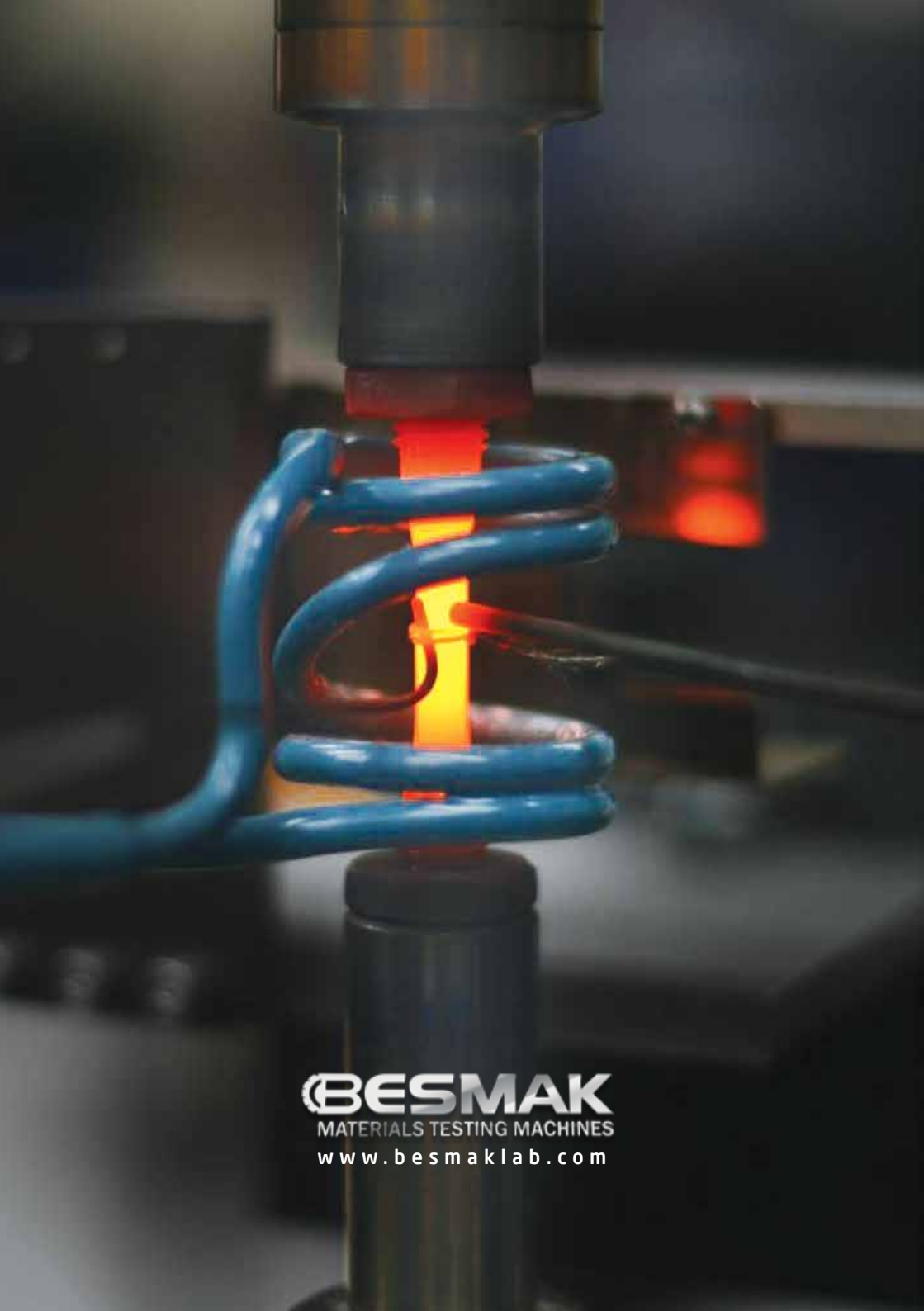
The logo for BESMAK, featuring the word "BESMAK" in a bold, white, sans-serif font with a metallic, 3D effect. The letter "B" is stylized with a gear-like circular element on its left side. The logo is set against a solid red rectangular background.

BESMAK

A faint, dotted world map is visible in the background, centered behind the main text.

MATERIALS
TESTING
MACHINES

WWW.BESMAKLAB.COM

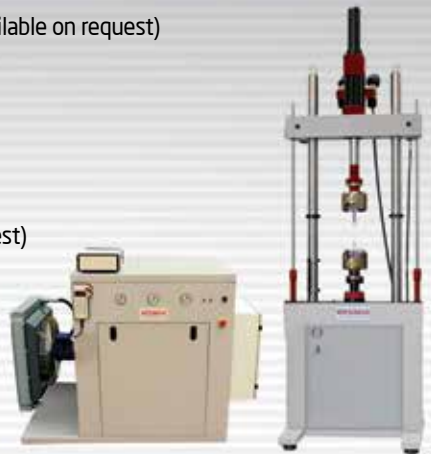


BESMAK
MATERIALS TESTING MACHINES
www.besmaklab.com



BMT-D Series Servo-Hydraulic Fatigue Test Machine

- Moog Two Stage Dynamic Servo Valve with High Flow Rate and High Step Response (Made in Germany)
- Doli Dynamic Controller; 5kHz Data Acquisition (Made in Germany) or Moog Test Controller; 10kHz Data Acquisition (Made in Germany)
- Doli LCD Remote Control Console with Emergency Stop Button
- Doli Test&Motion Software with DynaPack or Moog Test Software for All Dynamic Tests
- Fatigue-Rated Load Cell Accuracy Class $\pm 0.5\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Accumulators For The Best Dynamic Performance (Made in Germany)
- Piston Stroke 300mm (Different stroke range available on request)
- Double Acting Piston with Low - Friction
- Capacity Range; 50kN-100kN-300kN-500kN (Different capacities available on request)
- Hydraulic Grips (Pneumatic or mechanical grips available on request)
- Individual Jaws for Different Specimen Types
- Optional Video-Extensometer up to 4kHz
- Dynamic Tests



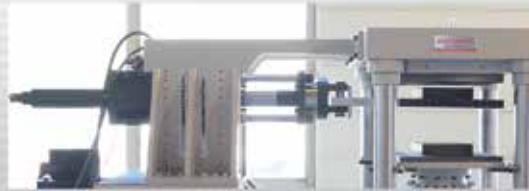
BMT-A Series Servo-Hydraulic Actuator



- Moog Dynamic Servo Valve with High Flow Rate and High Step Response (Made in Germany)
- Doli Dynamic Controller; 5kHz Data Acquisition (Made in Germany) or Moog Test Controller; 10kHz Data Acquisition (Made in Germany)
- Doli Test Center Software with All Dynamic Options or Moog Test Software for All Dynamic Tests
- Fatigue-Rated Load Cell Accuracy Class $\pm 0.5\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Accumulators For The Best Dynamic Performance (Made in Germany)
- Ball Joint Seat at Both Ends
- Piston Stroke 300 mm (Different stroke range available on request)
- Capacity Range; 50kN-100kN-200kN-300kN-500kN-1000kN (Different capacities available on request)
- Optional Video-Extensometer up to 4kHz Dynamic Tests



BMT-A+C Series Elastomeric Bearing Test Machine



Dynamic Horizontal Actuator

- Moog Dynamic Servo Valve with High Flow Rate and High Step Response (Made in Germany)
- Doli Dynamic Controller; 5kHz Data Acquisition (Made in Germany) or Moog Test Controller;
- 10kHz Data Acquisition (Made in Germany)
- Doli Test&Motion Software with DynaPack or Moog Test Software for All Dynamic Tests
- Doli Test Center Software with All Dynamic Options or Moog Test Software for All Dynamic Tests
- Fatigue-Rated Load Cell Accuracy Class $\pm 0.5\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Accumulators For The Best Dynamic Performance (Made in Germany)
- Double Acting Piston with Low - Friction
- Automatic Adjustment of Height via Electromechanical Jack
- Piston Stroke 500mm (Different stroke range available on request)
- Highly Rigid Frame
- Capacity Range; 500kN-1000kN-2000kN (Different capacities available on request)
- High Capacity Cooling System
- Optional Video-Extensometer up to 4kHz Dynamic Tests

Static Vertical Compression System

- Moog Servo Valve (Made in Germany)
- Doli Controller; 1kHz (Made in Germany)
- Doli LCD Remote Control Console with Emergency Button
- Doli Test&Motion Software
- Allows Low-Frequency Dynamic Tests
- Pressure Transducer Accuracy Class $\pm 1\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Piston Stroke 450mm (Different stroke range available on request)
- Double Acting Piston with Low - Friction
- Highly Rigid Frame with 4 Chromium Columns
- Capacity Range; 2000kN-3000kN-4000kN-5000kN-10000kN (Different capacities available on request)
- Cooling System
- Optional Video-Extensometer



BMT-S Series Servo-Hydraulic Universal Testing Machine

- Moog Servo Valve (Made in Germany)
- Doli Controller; 1kHz (Made in Germany)
- Doli LCD Remote Control Console with
- Emergency Button
- Doli Test & Motion Software
- Load Cell Accuracy Class $\pm 0.5\%$
- Non-Contact Position Sensor
- Accuracy 0.001mm (Made in Germany)
- Piston Stroke 600mm
(Different stroke range available on request)
- Double Acting Piston with Low-Friction
- Highly Rigid Frame with 4 Chromium
Columns
- Capacity Range; 400kN-500kN,
600kN-800kN-1000kN-2000kN
(Different capacities available on request)
- Hydraulic Grips
(Mechanical or Pneumatic grips available on request)
- Jaws for Flat and Round Specimen
- Optional Compression and Flexural
- Accessories
- Optional Video-Extensometer



BMT-E Series Electromechanical Servo Universal Testing Machine

- Panasonic Servo motor and Driver (Made in Japan)
- Doli Controller; 1kHz (Made in Germany)
- Doli LCD Remote Control Console with Emergency Button
- Doli Test&Motion Software
- Load Cell Accuracy Class $\pm 0.5\%$
- Rotary Position Sensor Accuracy 0.005mm (Made in Japan)
- Piston Stroke 400mm (Different stroke range available on request)
- Capacity Range; 1kN-5kN-10kN-50kN-100kN-200kN-500kN (Different capacities available on request)
- Double Test Area
- Pneumatic Grips (Mechanical or Hydraulic grips available on request)
- Jaws for Flat and Round Specimen
- Optional Compression and Flexural Accessories
- Optional Video-Extensometer



BMT-F Series Servo-Hydraulic Flexural Test Machine

- Moog Servo Valve (Made in Germany)
- Doli Controller; 1kHz (Made in Germany)
- Doli LCD Remote Control Console with Emergency Button
- Doli Test&Motion Software
- Load Cell Accuracy Class $\pm 0.5\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Piston Stroke 400mm (Different stroke range available on request)
- Double Acting Piston with Low - Friction
- Highly Rigid Frame with 4 Chromium Columns
- Capacity Range; 100kN-200kN-300kN-500kN-1000kN-3000kN (Different capacities available on request)
- 3 Point and 4 Point Bending Accessories for Different Specimen
- Optional Video-Extensometer



BMT-M Series Magnetic Linear Fatigue Test System

- Doli Dynamic Controller; 5kHz Data Acquisition (Made in Germany)
- or Moog Test Controller; 10kHz Data Acquisition (Made in Germany)
- Doli Test&Motion Software with DynaPack or Moog Test Software for All Dynamic Tests
- Fatigue-Rated Load Cell Accuracy Class $\pm 0.5\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Piston Stroke 100mm (Different stroke range available on request)
- Frictionless Magnetic Piston
- Highly Rigid Frame with Anti-Vibration Design
- Capacity Range; 900N - 1100N - 1500N (Different capacities available on request)
- Optional Video-Extensometer up to 4kHz
- Dynamic Tests



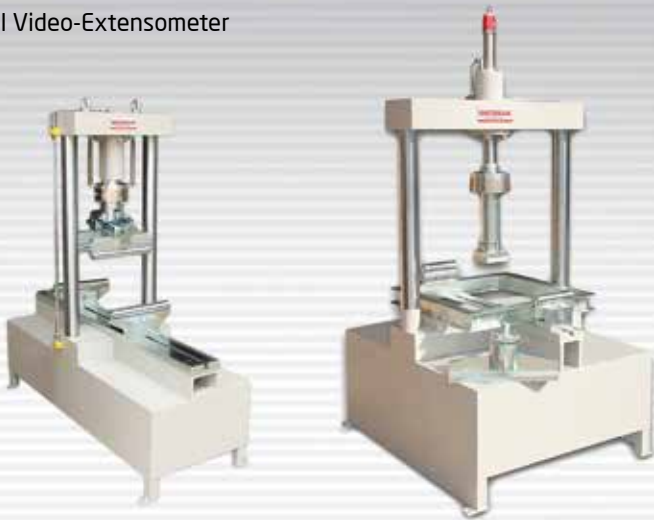
BMT-R Series Video Extensometer

- RTSS (Real Time Strain Sensor) as known as video extensometer
- RTSS_HR;
- For tensile quasi-static tensile test with high accuracy ($20\mu\text{strains}=20\mu\text{m/m}$)
- RTSS_HS;
- For dynamic applications with up to 4kHz measurement rate.
- Determination of young's modulus and Poisson's ratio
- Non-Contact optical Measurement with Real Time Image Processing
- Measures the longitudinal and transverse strain between two applied lines with a rate of up to 4000 Hz
- The strain data is transferred to the dynamic or static test machine
- Doli controller for further processing or controlling
- The Fully Automatic Operation
- Optional Multi Camera System



BMT-C Series Servo-Hydraulic Compression/Flexural Test Machine with Modulus of Elasticity Equipment

- Moog Servo Valve (Made in Germany)
- Doli Controller; 1kHz (Made in Germany)
- Doli LCD Remote Control
- Console with Emergency Button
- Doli Test&Motion Software
- Pressure Transducer Accuracy Class $\pm 1\%$
- Non-Contact Position Sensor Accuracy 0.001mm (Made in Germany)
- Piston Stroke 50mm (Different stroke range available on request)
- Piston with Low - Friction
- Highly Rigid Frame with 4 Columns
- Capacity Range; 500kN-1000kN-1500kN-2000kN-3000kN-5000kN
(Different capacities available on request)
- Optional Flexural Frames (Servo Hydraulic power pack can support up to 3 No. Frames)
- Optional Video-Extensometer



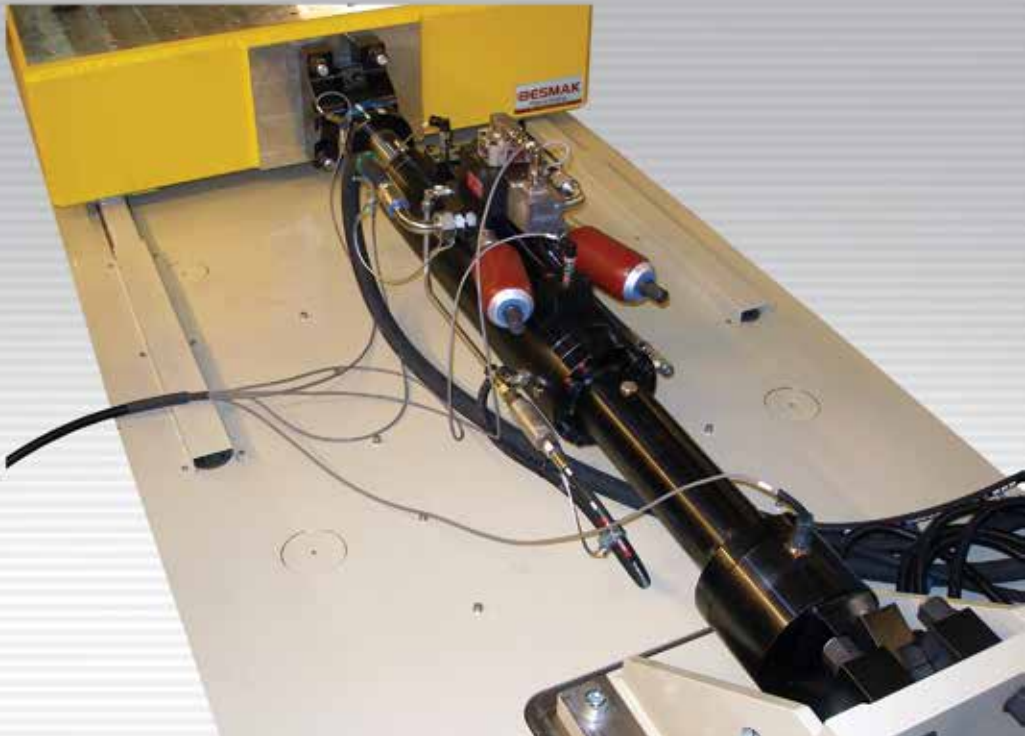
MODERNIZATION

Besmak manufactures both static and dynamic test machines for all kind of materials as well as with the capability of production, Besmak can make modernization successfully no matter what the machines brand is.

In this regard Besmak showed his success with TSE modernization job. In TSE Gebze campus there are 100 kN, 300 kN, 600 kN and 2000 kN capacity static and dynamic universal test machines which were modernized by Besmak.

If possible modernization works can be made onsite if it is not possible the work can be made in 6300 m² closed area factory in the supervision of R&D, production, quality-control engineers.

With special hi-tech systems, modernized machines can provide $\pm 0.5\%$ force class and 0.001mm displacement accuracy. To send a load, return control, hold in a load, high frequency and amplitude can be provided by the modernized machines.



A Partner That Can Offer A Global Power With A Local Perspective

Through the facilities all over the world and connection point of in our country can offer solution even for the most requested applications.



Moog Turkey

Range of Moog servo product includes servo and proportional valves, hydraulic pumps, brushless servo motor, and servo drives.

Complete range of products of servo and proportional valves, servo motor and servo drive systems, servo actuators, motion systems, controllers and software, for data and power transmission slip rings offer highest performance for hydraulic, electrical and hybrid systems.

Products which will raise you to a new level of performance

Machine productivity begins with reliability keeping at the forefront specifically developed motion control products



BESMAK®
Istanbul Yolu 27. Km. Saray Mahallesi,
Aksoy Caddesi No: 53 Kazan / ANKARA
Tel: +90 312 815 56 20 Fax: +90 312 815 56 25
info@besmaklab.com - bilgi@besmaklab.com
www.besmaklab.com - www.moog.com

BESMAK



BESMAK
MATERIALS TESTING MACHINES

Istanbul Yolu 27. Km Saray Mah. Aksoy Cad. No:53
Kazan / Ankara / TURKEY
Tel : +90 (312) 815 56 20 • Fax : +90 (312) 815 56 25
bilgi@besmaklab.com • info@besmaklab.com
www.besmaklab.com

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