

2025

**BESMAK**

# ROTARY BENDING FATIGUE TESTING MACHINE



**BMT-FT**

## **BESMAK BMT-T Series Rotary Bending Fatigue Test Machine is a benchtop device and has been designed considering the basic principles of fatigue testing.**

The desired test can be performed by applying a load to the sample, which is fixed on one side and subjected to rotation, on the other hand.

The load amplitude of the Rotary Bending Fatigue Test Machine can be adjusted automatically with the help of the screw-gear system. The device can display the number of cycles counted by the electric meter on the screen through the digital meter.

- ✓ **ADJUSTED AUTOMATICALLY WITH THE HELP OF THE SCREW-GEAR SYSTEM**
- ✓ **A DOUBLE SIDED SAMPLE HOLDER**
- ✓ **SUITABLE FOR SAMPLES WITH A LENGTH OF BETWEEN 12MM TO 300MM**

### **DESCRIPTION :**

Test system consists of a double sided sample holder, load measurement, loading system, servo motor, electronic control unit and dynamic test software in order to create the desired bending effect in the material. It has a suitable rail system for the adaptation of specimens with different lengths by means of a holding device suitable for connecting different materials to the system. This rail system is suitable for samples with a length of between 12mm to 300mm with a diameter of 10-15mm. The loop measurement resolution and the load measurement resolution are class 0.5.

Electronic control unit has 4 channels. It has internal 2, external 2 and 1 RS232-485 channels and is able to control up to 7 sensors. It has 1000 data sampling rate at first (works at 1 kHz). System will be provided with appropriate test software system to perform dynamic applications. The computer software can export the results data in the form of a report, in the form of raw data in excel format, and as a maximum of 1000 copies per second. Graph axes and test results can be changed as user defined, in particular the number of loops corresponding to the load the sample is defeated.

PRODUCT CODE	PRODUCT NAME
BMT-200/FT6000	Rotary Bending Fatigue Test Machine, 200 N Capacity (6000 revolution/min)
BMT-250/FT2500	Rotary Bending Fatigue Test Machine, 250 N Capacity (2500 revolution/min)
BMT-250/FT3000	Rotary Bending Fatigue Test Machine, 250 N Capacity (3000 revolution/min)
BMT-250/FT5000	Rotary Bending Fatigue Test Machine, 250 N Capacity (5000 revolution/min)
BMT-250/FT6000	Rotary Bending Fatigue Test Machine, 250 N Capacity (6000 revolution/min)
BMT-1000/FT2000	Rotary Bending Fatigue Test Machine, 1000 N Capacity (2000 revolution/min)
BMT-2000/FT3000	Rotary Bending Fatigue Test Machine, 2000 N Capacity (3000 revolution/min)
BMT-2000/FT6000	Rotary Bending Fatigue Test Machine, 2000 N Capacity (6000 revolution/min)
BMT-3000/FT3000	Rotary Bending Fatigue Test Machine, 3000 N Capacity (3000 revolution/min)





**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 m<sup>2</sup> 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.





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## MATERIAL TESTING MACHINES



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