



The Rotating Bending Fatigue Testing Machine is designed for accurate evaluation of material fatigue strength under fully reversed bending loads. Built with precision and durability, it caters to both research and industrial applications, providing reliable performance over extended testing cycles.

### Technical Specifications

#### Load Capacity

- Range: **1 kN to 50 kN**

#### Maximum Bending Moment

- Up to **100 Nm**

#### Specimen Size

- Diameter: **3 mm to 20 mm**
- Length: **100 mm to 200 mm**

#### Rotational Speed

- **10 to 6000 rpm** with variable speed control

#### Load Type

- Fully reversed bending load ( $\pm$  bending moment)

#### Test Modes

- Constant amplitude
- Variable amplitude
- Step loading

#### Cycle Counting

- Digital counter with capacity up to **10<sup>9</sup> cycles or more**

#### Control System

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Microprocessor-based system with programmable test parameters

#### Drive Motor

- High-performance **AC motor with Variable Frequency Drive (VFD)**

#### Specimen Mounting

- **Chuck or collet system** for secure and easy specimen fixation

#### Data Acquisition

- Monitors **load, cycles, runout**
- Optional **strain gauge integration**

#### Machine Frame

- **Rigid cast iron/steel frame** for vibration-free operation

#### Safety Features

- Emergency stop switch
- Protective guarding
- Overload protection

#### Power Supply

- **220–240 V, 50/60 Hz, single phase**

#### Environmental Options

- Optional **temperature and humidity control chambers** for advanced testing

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