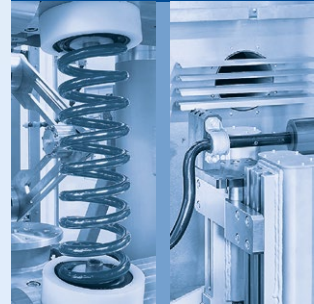


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## Rotational bending tests on thin wires and samples

Rotating Bending Test Machine (RBTM) • 100 Nm

### Service description

- Testing machine for rotating bending testing on thin wires and samples
- Determination of the fatigue strength depending on the material properties
- Material optimisation (e.g. purity, type of material, heat-treatment, shot peening parameters)

### Fields of application

- Quality assurance
- Determination of the fatigue strength of high-strength materials for the production of springs or other highly designed components

### Added value for our customers

- Efficient optimisation by comparing the fatigue strength of the raw material even before processing into the end product

### Reference customers/projects

- Spring maker
- Spring wire manufacturer
- Steel producer

### Technical data

- **Shouldered samples ( $\emptyset$ ):** max. 12 mm
- **Spring wire ( $\emptyset$ ):** 3 to 6 mm
- **Test frequency:** 5 Hz to 50 Hz (variable)
- **Power consumption:** max. 1 kW
- **Weight:** approx. 500 kg
- **Circumferential bending, load maintenance:** quick-action chuck or domed, wear-free plastic rings
- **Bending moment:** max. 100 Nm