

ELASTIC TORSION

RS 034

Description:

Parts under torsion are frequently used in mechanical engineering. Torsion is defined as the twisting of an object due to an applied torque. Torsion test is a test of mechanical properties which is used to examine elastic deformation in shafts. Torsion occurs primarily on axles and drive shafts in motor vehicles and machines. The torsion occurring in the shaft cause cross-sections of the shaft to be pushed together around the longitudinal axis. When a torque is applied to a shaft the cross-section remains flat and no distortion occurs. This device allows the users to conduct elastic torsion test on specimens with different cross section. It is mainly composed of a metal frame on which a fixed jaw and a movable jaw are mounted.

Specifications:

- Measuring system for measuring torsion angle (encoder)
- Chuck with movable base
- Chuck with fixed base
- Accessories to induce torque
- Different specimens
- Loading mechanism and measurement system
- Aluminum structure
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Investigating the mathematical relations of torsion in hollow and solid cylinder bars
2. Investigating the relations of elastic torsion in bars with different materials, cross sections and lengths
3. Obtaining the principal stresses, shear modulus and drawing Mohr's circle for specimens

Required For Operation:

- 220 v Single Phase Electricity
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%



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Dimensions (L*W*H) mm:1200 x 300 x 650

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