SFT011

INSTRUMENTED TORSION STUDY UNIT

Experimental capabilities

- **Determination of unitary twisting angle**
- **Determination of total torsion angle**
- **Determination of coulomb module by measuring the total torsion angle**
- **Determination of the Coulomb module by measurement of the relative micro deformations**
- **Determination of constraints in a beam subjected to the torsion**
- **Study the differences between torsion of open profiles and profiles closed**

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version : FT-SFT011-STD-B

SFT011

Operating principle

The SFT 011 unit allows to study the torsion of round profiles, tubes and split tubes (other profiles on request)

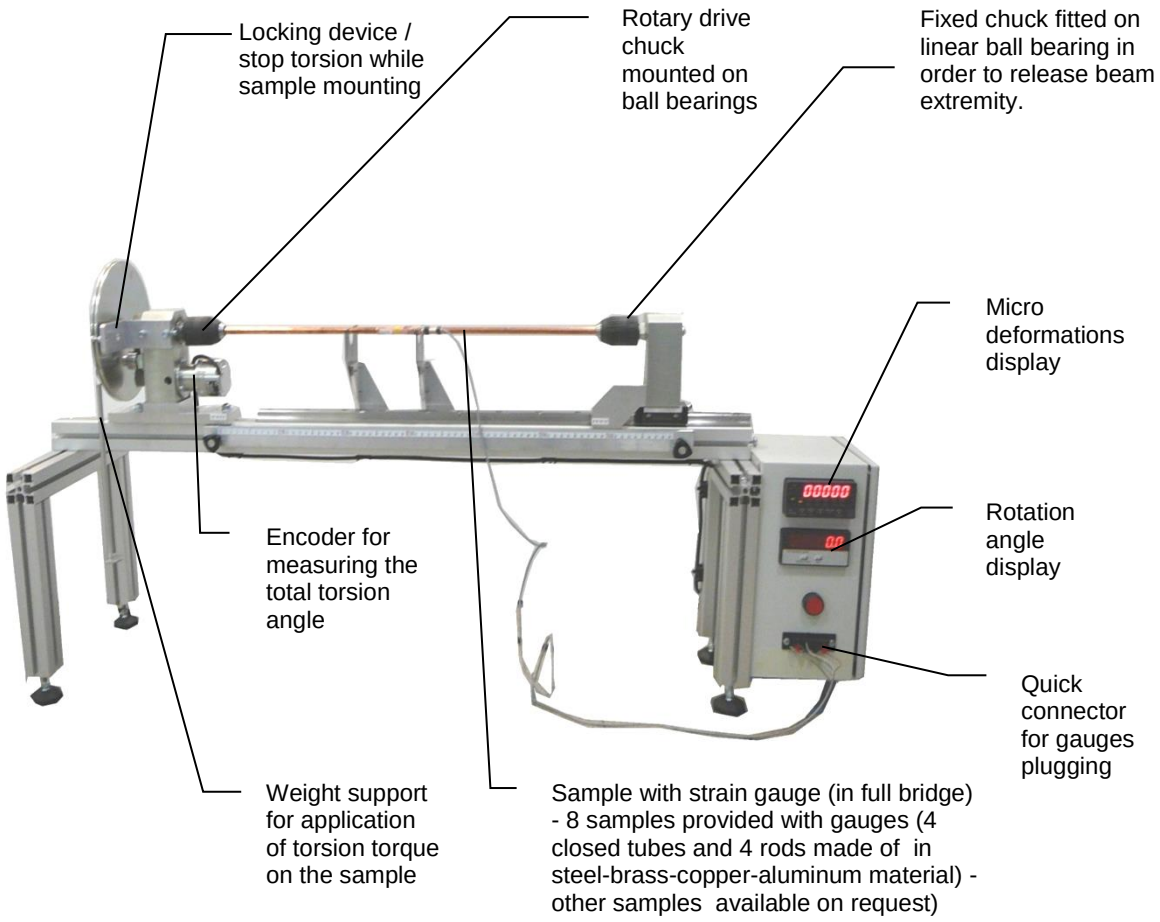
Highlighting the unitary torsion angle

Measurement of total torsion angle

8 instrumented test samples provided (refer to technical details below)

The robust design of this device makes it suitable for use in schools.
The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.
The manufacture of this equipment complies with the European standard for machinery manufacturing.

Illustrations
Technical details



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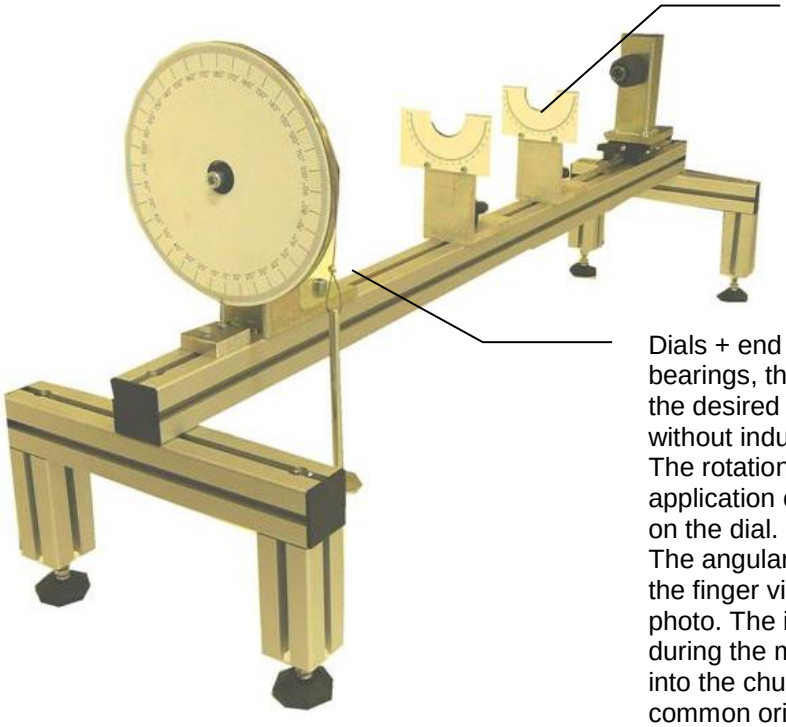

Mobile dials (positionable as appropriate along the beam). Indicates the angular deviation at any point of the beam

Dials + end pulley. Mounted on ball bearings, this disc is used to apply the desired torque on the beam without inducing flexion on the latter. The rotation generated by the application of this torque is measured on the dial.
The angular position 0° is indexed by the finger visible spring on the top photo. The indexing of the assembly during the mounting of the specimen into the chucks allows to have a common origin for all experience.

Services required

- Dimensions: (LxWxH mm): 1200 x 300 x 420
- weight (Kg): 25

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Technical documentation of the components
- Certificate of conformity CE

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