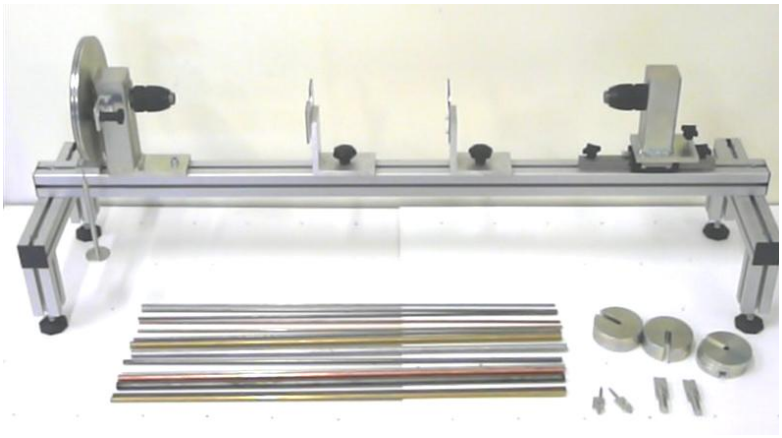
SFT 010

Torsion bench

DESCRIPTION

- **The SFT 010 bench used to study the torsion of round or square profiles (other profiles on demand**
- **Highlighting the unitary torsion angle**
- **Measurement of total torsion angle**
- **Teaching manual provided.**
- **Design, manufacture and industrial material.**
- **The didactic interest of SFT 010 is directed to the IUT, engineering schools and universities in mechanical sections.**



PEDAGOGICAL APPLICATIONS

- Determination of unitary torsion angle
- Determination of total torsion angle
- Determination of constraints with a beam subjected to the torsion
- Study the differences between torsion of open profiles and profiles closed
- locking bolts of the end pulley

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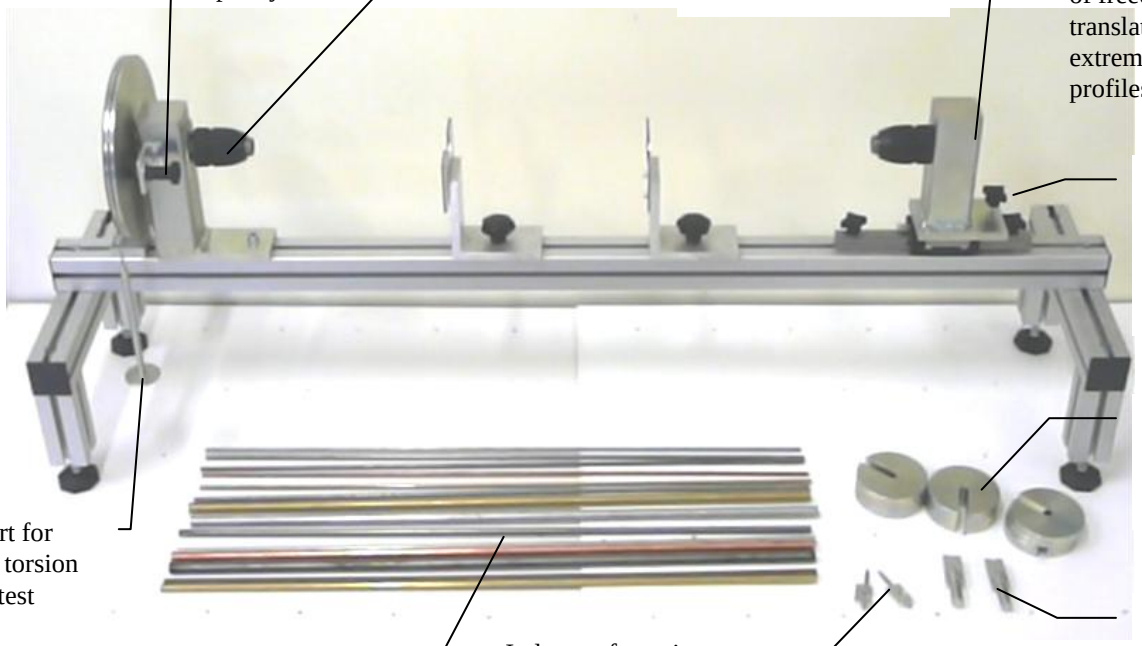
Presentation of the system:



Locking bolts of the end pulley

Drive chuck in rotation

Fixed chuck (in rotation) mounted on the ball rail to release at the need of the degree of freedom of axial translation of the beam extremity (used to open profiles)

Screws for immobilization in translation of the chuck support

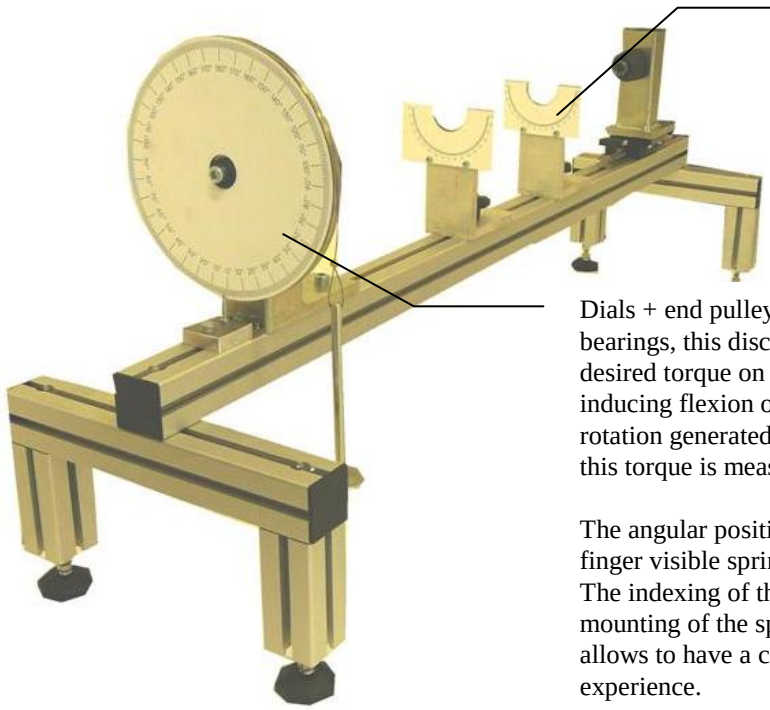
Set of weights 1kg, 500g and 200g

Chuck adapter for torsion of square test tubes 6x6

Weight support for application of torsion torque on the test tube

Batch of steel test tubes, brass, copper and aluminum in diameter from 6 to 12 mm + square section test tubes 6*6

Indexes of rotation (attach by the hand on the beam at mobile dials level)



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.

Dimensions (L*W*h in mm) / weight (in kg) :

- 1200 x 300 x 420 / 15kg approx

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