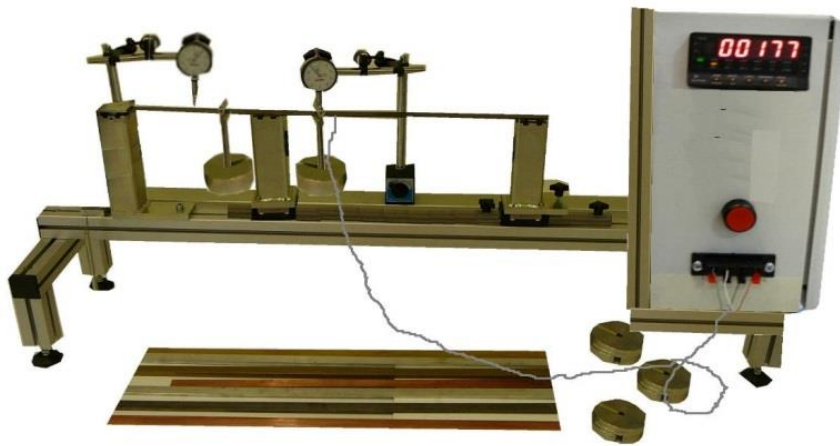


## INSTRUMENTED BENDING TEST UNIT



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### Experimental capabilities

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- Study of the bending profiles
- Measurement of deformation
- Study of the impact of the links (embedding / points) and the cases of load.
- Modelling of loading diagrams and determination theory of the deformations.
- Measuring of microdeformations
- Comparing theoretical and experimental model

## Operating principle

The SFT 021 bench allows to study the bending of flat or square profiles.

Measurement of the deformation in bending

Measuring the relative microdeformations by strain gauges and integrated display on the bench

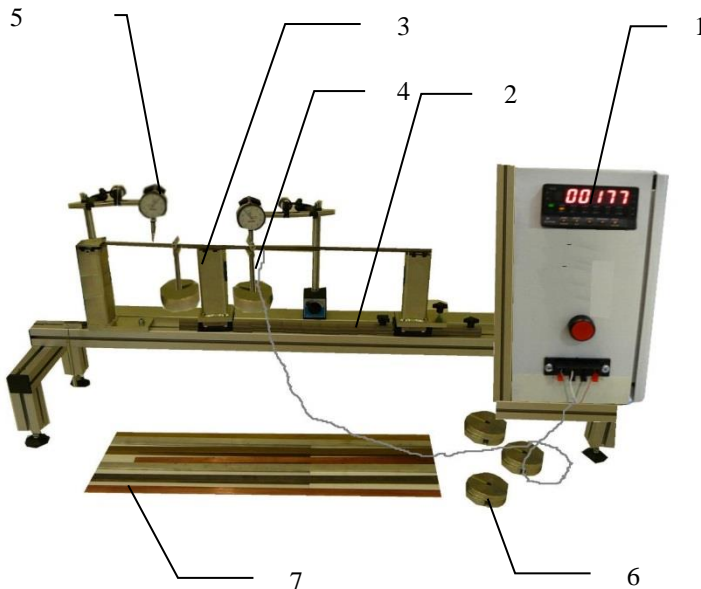
Study of the influence of the types of links (embedded or points) and the loading points

The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminum frame on 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

1. Electrical box incorporating 1 display of the relative microdeformations as well as a fast connection for the strain gauges - button to put at zero of the measure
2. Anodized aluminum chassis on 4 feet
3. 3 adjustable brackets along the beam to characterize / allows to create points or embedded links
4. 2 weight support positionable as appropriate along the beam to characterize
5. 2 comparators support with comparator
6. Set of weight of 1kg, 500g and 200g
7. Set of 8 specimens of steel, brass, copper and aluminum, equipped with strain gauges for bending.

## Services required

- Electrical supply : 230 Vac – 50 Hz – 1 A
- Electrical network : 1 phase(s) + Neutral + Earth.
- Dimensions: (LxWxH mm): 1000 x 300 x 420
- weight (Kg): 20

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
- Pedagogical manual
- Technical documentation of the components
- Certificate of conformity CE