



*Non contractual photo*

**SERVICE :**

**DIMENSIONS : 1000 X 300 X 1000 MM**

**WEIGHT : 120KG**

## REFERENCE : IT50

For non-ferrous or low-carbon steels and plastics.

The DELTALAB Model IT50 Pendulum Sheep is used to perform resilience tests on plastics and non-ferrous or low-carbon steels by the Charpy test, which measures the energy required to break a test specimen with specific dimensions per impact. The energy is known by means of a special hammer mounted on the pendulum. The kinetic energy absorbed by the impact is measured on a dial. This equipment is used in research laboratories, control / quality departments or training institutes. The main frame of the machine consists of an anvil with an anti-deflection column protected by a safety grille. The pendulum is mounted on bearings thus making it possible to limit friction losses to 0.5% of the maximum impact energy. In the high position, the pendulum has a definite potential energy which is converted into kinetic energy during its swing phase. The pendulum reaches its maximum kinetic energy at the lowest position of its swing phase, just before it comes into contact with the test specimen. The energy of the impact absorbed by the specimen during the rupture corresponds to the difference between the height of the release before rupture and the rise height after rupture of the test specimen. The value is read directly on the scale of the dial which is calibrated in Joules.

### Technical specifications :

- Sheep clock
- Charpy test hammer
- Graduated scale in Joules
- Two-handed hammer release levers
- Sample fixing block
- Safety barrier User Manual

### Technical :

- Pendulum angle 160 °
- Weight of the Pendulum :: 6.6kg
- Kinetic Energy of the Pendulum: 50J
- Scale of graduation: 0.5J
- Impact speed: 3.9 m / sec
- Length of the pendulum: 400mm

### Installation :

The IT50 must be mounted on a support firmly fixed to the ground.