

# Puncture Tester



For measuring the required energy to puncture corrugated board and cardboard.

## Applicable Standards

ISO 3036, TAPPI T803, DIN 53, FEFCO N°5, SCAN P23, ASTM D781

## Test description

The test consists of puncturing a board sample with a triangular pyramid-shaped puncture head, which is fixed to a pendulum. The required energy for the puncture head to cross the sample completely is measured. This means, to do the initial puncture, tear and open the board.

## Characteristics

- High rigidity steel frame, designed to avoid energy losses due to vibrations during the test.
- Pendulum with arm in circular arc shape (90°).
- Puncture head in triangular pyramid shape (under specifications of international standards).
- Collar with soft adjustment to the puncture head basis.
- Exchangeable load weights : A, B, C and D to select the work range.
- Pendulum releasing mechanism with security system.
- Security protection covers.
- Sample fixing clamps with regulable holding pressure.
- Microprocessor controlled.
- Control panel with 4 buttons and an alphanumerical display of liquid crystal glass.
- Easy and intuitive operation of the control menu.
- Statistical control. Mean value, standard deviation.
- RS-232 connection.
- CE mark.
- 4 Arbeitsbereiche (Joules):
  - 0 – 6 J mit Auflösung von 0,025 J.
  - 0 – 12 J mit Auflösung von 0,050 J.
  - 0 – 24 J mit Auflösung von 0,100 J.
  - 0 – 48 J mit Auflösung von 0,200 J.

### Software control (optional)

The machine, through its RS-232 connection, allows the total control and management of the test, by means of the RYCOLAB software. It will be possible to preset tests, save test results graphical curves, carry out test reports, etc.

### Connections

- Electric: 220 / 110 V, 50 / 60 Hz

### Weight and dimensions

1050 x 500 x 1220 mm (W x L x H) – 250 kg

1380 x 810 x 1400 mm (W x L x H) – 350 kg

