

# Internal Bond Tester

---

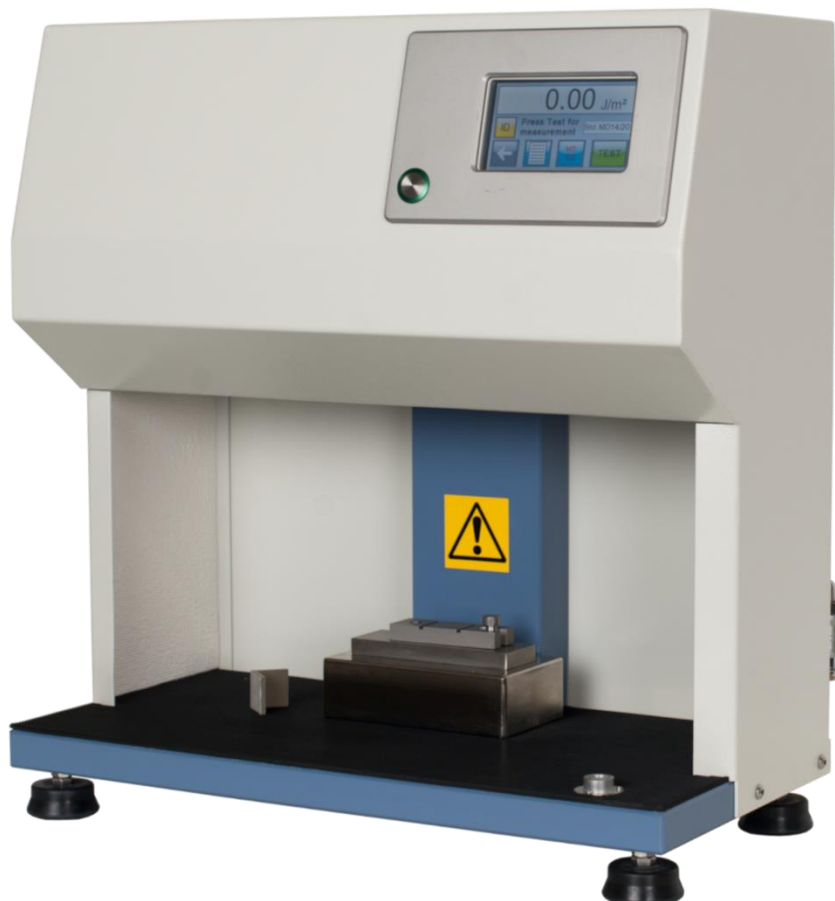
Code: E.201.x

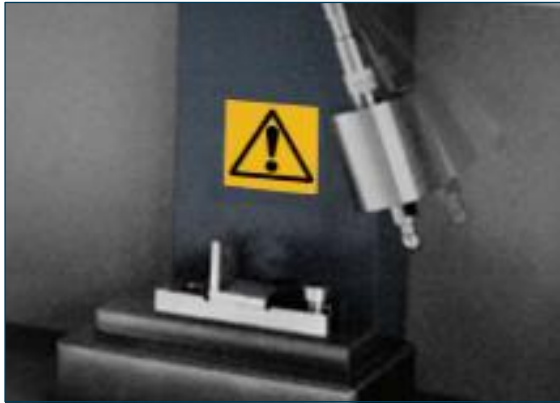
## Usage

To determine the internal bonding force of paper.

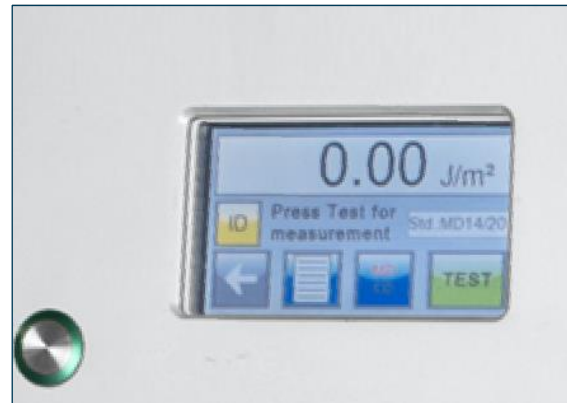
## Applicable standards

- TAPPI T569 om-09
- TAPPI T833





Pendulum



Touch display

### Device description

This device comes with a built-in digital display and is microprocessor controlled. The standard configuration is delivered with a medium range pendulum. All the parts are built into a sturdy steel frame. A pendulum mechanism pulls the pendulum back to starting position after the test is carried out. Push down sample holder for quick changing of the base plate with the sample and the aluminum angle.

### Process description

The sample that needs testing is placed in the measuring area. By pushing the start button the pendulum is released and hits the aluminum angle, glued on the sample with double adhesive tape. The sample is pushed away, the needed energy is measured and displayed in  $J/m^2$ .

### Connections

- Voltage: 110 - 230 V, 50/60 Hz AC
- Compressed air: 600 kPa

### Specifications

- digital display, microprocessor controlled
- automatic pendulum return
- delaminating angle of the pendulum to the surface of the sample:  $90^\circ$
- easy insertion of the sample base with quick changing mechanism
- sample area: 25.6 x 25.6 mm
- display of values selectable in  $J/m^2$ , kg/cm, ft. lb/in<sup>2</sup>

### Delivery content

- instrument with sample preparation station
- 5 base plates
- 5 aluminum angles
- 1 double adhesive tape
- 1 pendulum (of choice)
- connection cable
- compressed air hose
- user manual
- certificates

### Models

Code	Sample station	Type of pendulum
E.201.L.MAN	manual	low = pendulum with low weight (525 $J/m^2$ )
E.201.M.MAN		medium = pendulum with medium weight (1 050 $J/m^2$ )
E.201.H.MAN		high = pendulum with high weight (2 100 $J/m^2$ )
E.201.L.AUT	automatic	low = pendulum with low weight (525 $J/m^2$ )
E.201.M.AUT		medium = pendulum with medium weight (1 050 $J/m^2$ )
E.201.H.MAN		high = pendulum with high weight (2 100 $J/m^2$ )

# Internal Bond

---

## Sample Preparation Station

Code: E.201.xxx

### Usage

To prepare the samples for the internal bond tests.

### Description

The sample preparation station has been specially developed for preparing samples for the IBT and is equipped with adhesive tape holders and a pneumatic clamping station with five individually operating cylinders. It is easy to operate due to a digital display and controls. It has a sample feed, which allows quick insertion of the sample and integrated blades for precise cutting of the samples.

### Process description

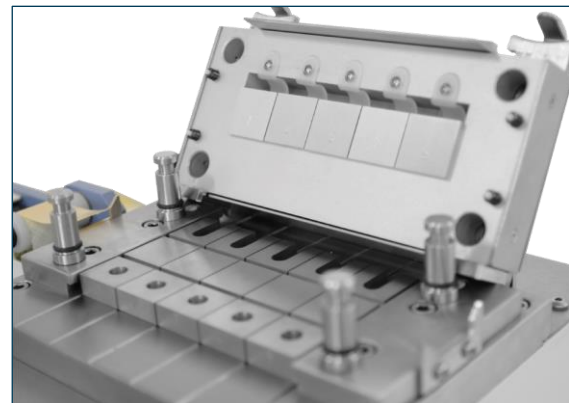
First the five support platens are inserted into the sample holder in a set order and then the corresponding aluminum angle is put into the device. Double adhesive tape is attached to the support platen and then the cover is closed, allowing the safety switch to be closed. When the start button is used, the angle is pressed against the platen with the pre-selected force and time. After this process, depending on the model, the sample will be cut manually or automatically.

### Specifications

- digital display, control buttons
- contact pressure and time adjustable

#### Automatic model:

- two tape dispensers
- easy sample inserting
- automatic cutting mechanism



Base plate and angle inserted



Manual (left) and automatic (right) preparation station