

Internal Bond Tester & Sample Preparation Station

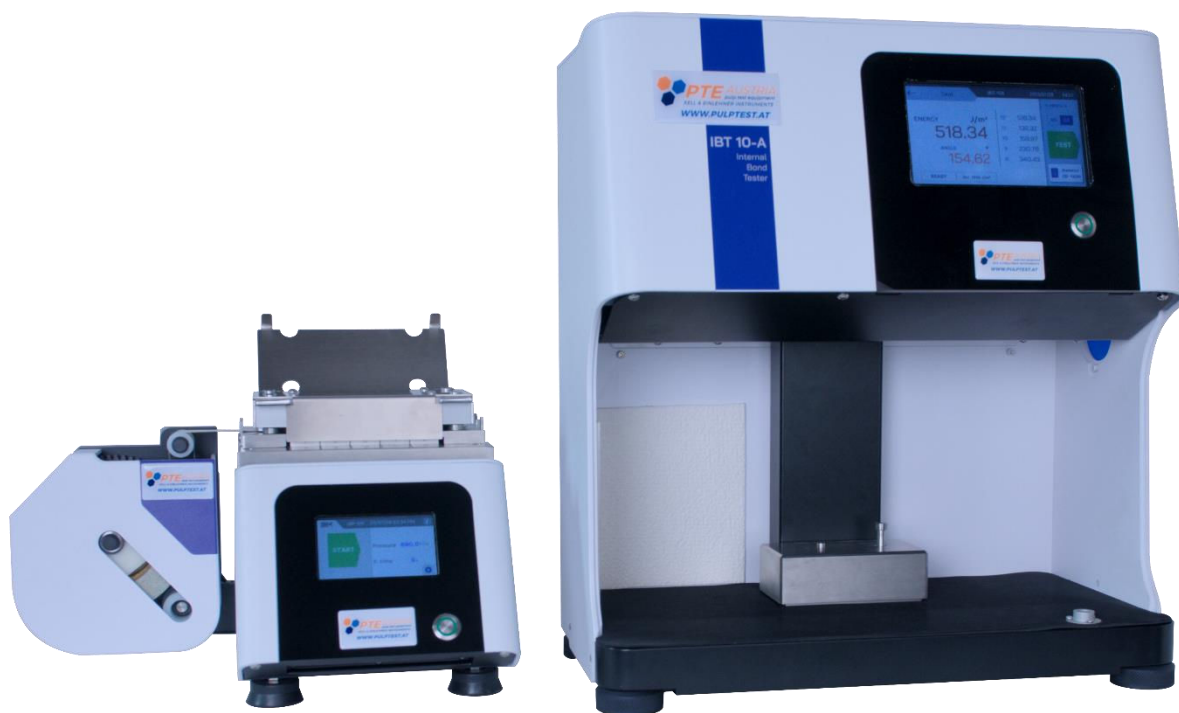
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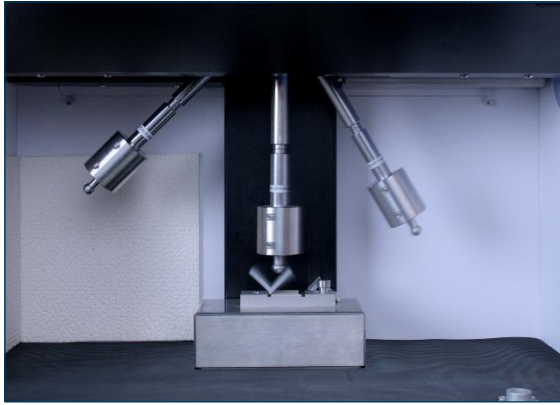
Usage

To determine the internal bonding force of paper.

Applicable standards

- TAPPI T569 om-09
- TAPPI T833





Swinging pendulum



Integrated touch display

Device description

This practical benchtop unit impresses with its intuitive operation via the integrated touch display and its microprocessor-controlled, precise measurement. Once the test cycle is complete, the pendulum is automatically returned to its starting position. The sample holder can be easily slid down, enabling quick and straightforward sample changes.

Process description

The sample to be tested is placed in the measuring area and the pendulum is set in motion by pressing the start button. As soon as the pendulum strikes the aluminium bracket to which the sample is attached with double-sided adhesive tape, the bracket is pushed aside, the energy required is measured and displayed on the screen.

Connections

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

Supply content

- 1x device with sample prep station acc order
- 5x base plates
- 5x aluminum angles
- 1x double adhesive tape
- 1x pendulum (of choice)
- 2x power supply cable
- 2x compressed air hose
- 2x user manual
- 2x certificates

Specifications

Integrated touchscreen:	Integrated touchscreen for intuitive and user-friendly operation.
Microprocessor control:	Microprocessor-controlled system for precise and reliable operation.
Automatic pendulum return:	Automatic return of the pendulum to its starting position after each test, ensuring an efficient and consistent testing process.
Pendulum deflection angle:	90° deflection angle of the pendulum relative to the specimen surface.
Quick-change mechanism:	Easy insertion of the specimen base thanks to the integrated quick-change mechanism.
Test surface:	Specimen area of 25.6 × 25.6 mm for standardised tests.
Selectable units of measurement:	Measurement values displayed in either J/m², kg/cm or ft·lb/in².
Certified quality:	CE-certified for conformity and safety.

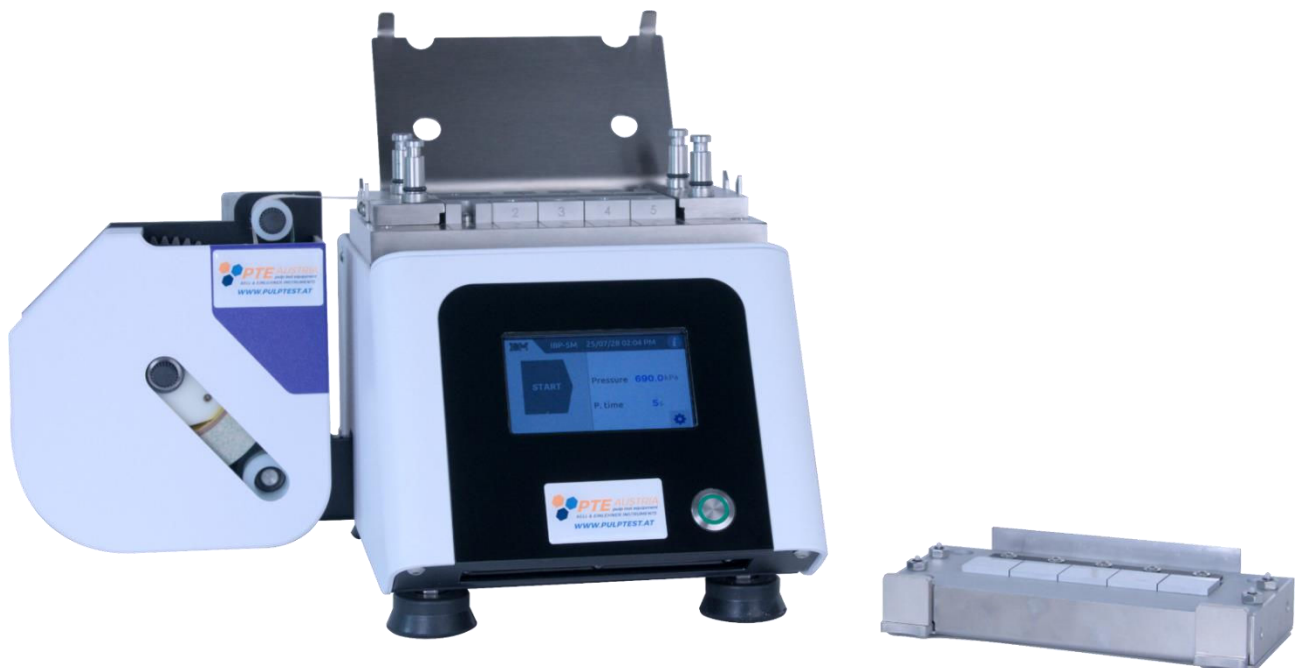
Internal Bond Tester

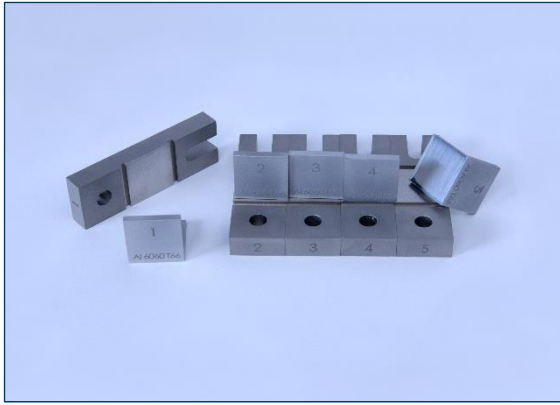
Sample Preparation Station

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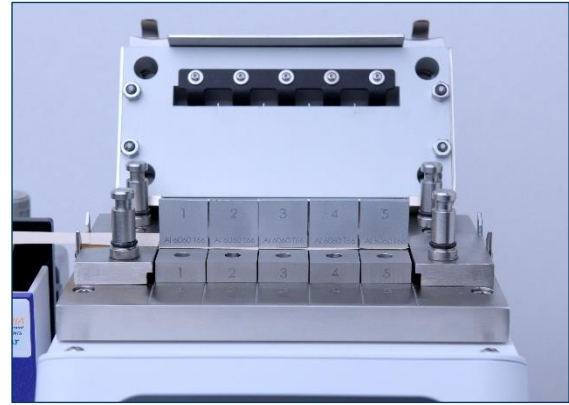
Usage

To prepare the samples for the internal bond tests.





Five angles and base plates



Area for sample preparation

Device description

The sample preparation station has been specifically developed for the preparation of samples for IBT testing. It is equipped with adhesive tape holders and a pneumatic clamping station with five independently operating cylinders. Thanks to its digital display and control system, the unit is easy and intuitive to operate. A sample feed mechanism enables quick and convenient sample insertion, while integrated blades ensure precise cutting of the samples.

Process description

First, the five support plates are inserted into the sample holder in a predefined sequence. The corresponding aluminium angle profile is then placed into the device. Double-sided adhesive tape is applied to the support plate, after which the cover is closed, activating the safety switch. When the Start button is pressed, the angle profile is pressed against the plate using the preselected force and duration. After this process, the sample is cut manually or automatically, depending on the model.

Specifications

Digital Display and Controls	Clear digital display and intuitive control buttons for simple and precise operation.
Individual Parameter Adjustment	Application pressure and application time can be flexibly adjusted to suit the respective testing application.
Automatic Sample Station	
Automatic Operation	The automatic model is equipped with two adhesive tape dispensers, enabling an efficient and convenient testing process.
Easy Sample Handling	Samples can be inserted quickly and easily, simplifying test preparation.
Automatic Cutting Mechanism	Integrated automatic cutting mechanism for fast, precise, and reproducible processing.

Models

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