

Horizontal Tensile Machine

Product code [RL-HTM-A](#)

RYCOLAB

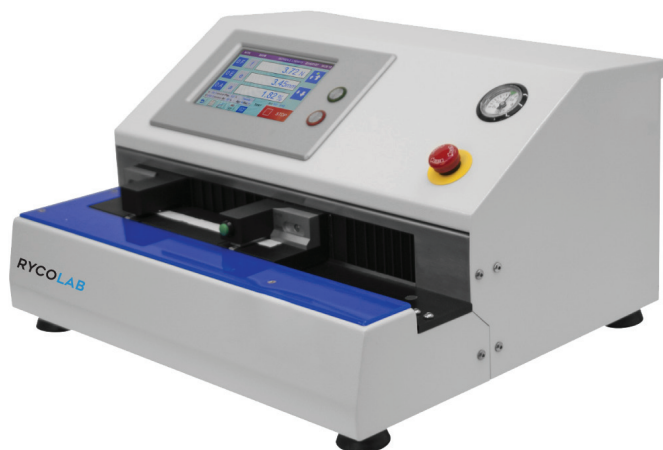


Figure: Tensile tester with integrated wet basket for tissue samples



Figure: Water bath for wet tensile measurements. Measurements for up to 50 mm wide stripes possible. The tensile test ranges from 50 mm to 180 mm distance between the clamps.

Usage:

For the determination of tensile resistance in dry or wet state, elongation and tensile energy absorption (TEA) in paper or tissue.

Applicable standards:

ISO 1924-1, ISO 1924-2, ISO 1924-3, TAPPI T 456, TAPPI T 494, etc.

Characteristics:

This device is delivered with a built-in touch screen and controlled by an industrial computer. All parts are built into a sturdy frame. Measuring range up to 5000kPa with an accuracy of $\pm 1\%$ of the displayed value. Automatic test cycle with break detection and after break automatic return to starting position. Easy to select test on the display.

Test description:

The user chooses the test to be performed on the touch screen. The clamps automatically drive into position. Now the sample support is placed into the space between the clamps and the sample is placed. The sample is automatically detected and the clamps close. According to the test the sample is either watered for the pre-set time, pulled out of the water and stretched till it breaks or it is directly stretched. The figures, curves, statistics with max, min, mean as well as the standard deviation are shown on the touch screen and can be printed. The clamps automatically open and return into start position after testing.

The software comes with the pre-installed tests as they are described in the standards. Company specific tests can be set as well. All the parameters like testing speed, testing length, breaking- and pre-load levels can be adjusted individually. The software can be set into different languages.

Specifications:

- Easy to operate due to touchscreen controls
- Automatic sample detection and automatic return into initial position
- Test speed adjustable between 0.2 and 330 mm/sec
- Multiple safety installations (limit switch, photocell barrier, emergency switch)



Measure



Improve



Service

- RS 232 and USB interface
- Water or standard tensile tests
- Regular software updates
- Accuracy: < 1% of the applied force (between 2% and 100% of the FS)
- Resolution: Force: 0.0004% of the FS, Travel: \pm 0.01 mm

Load cell and options

- Load Cells: 150.00 or 1000 N
- Calibration kit
- Display (service menu) and some graphs on another menu
- Water bath for wet tensile measurements. 50mm wide stripes can be measured. 50mm up to 180mm distance between the clamps selectable
- Clamps can be used for 15mm, 25mm or 50 mm wide samples

Connections:

Electricity: 230 V, 50 Hz AC

Air: 600 kPa

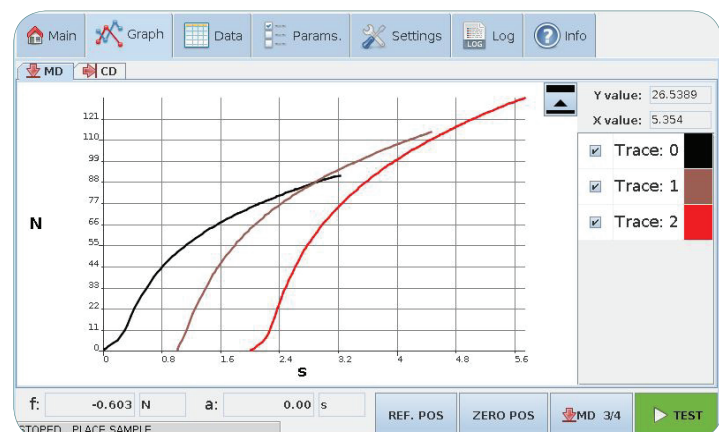
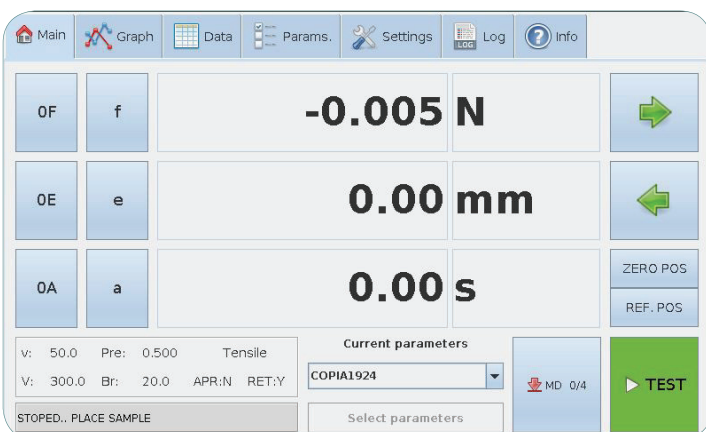


Figure : With the device it is possible to preset tests, configure the test parameters, save test results, graphical curves, generate test reports, etc.