



# Thwing-Albert Instrument Company

**More Than a Century of Testing Solutions**

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

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 1000N 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.

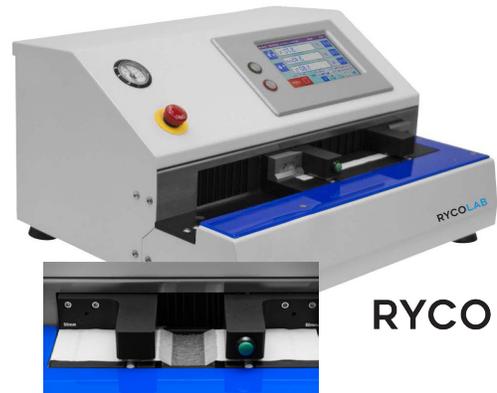
The user chooses the test to be performed on the touch screen. The clamps automatically drive into position. Now the sample support is placed into the space between the clamps and the sample is placed. The sample is automatically detected and the clamps close. According the test the sample is either 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.

## **Applicable Standards**

- ISO 1924-2, UNE-EN ISO12625-4/5, TAPPI T456, T494, PAPTAC

## **Horizontal Tensile RL-HTM-A**



**RYCOLAB**

## **Features**

- Easy to operate touchscreen
- Automatic sample detection and automatic return into initial position
- Test speed adjustable between 0.2 and 330 mm/sec
- Multiple safety features: limit switch, photocell barrier, emergency switch
- RS232 and USB interface
- Wet 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
- Electricity: 230 V, 50 Hz AC
- Air: 600 kPa

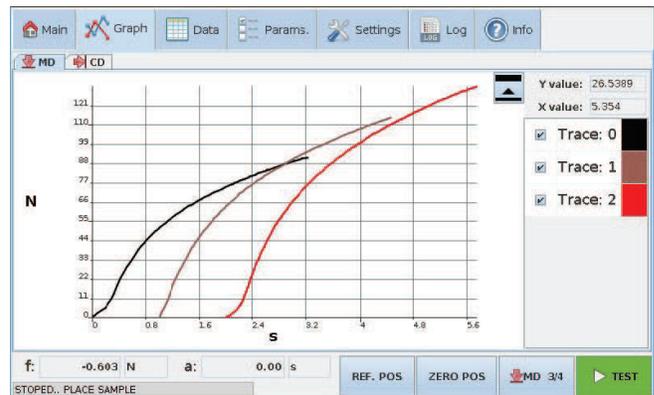
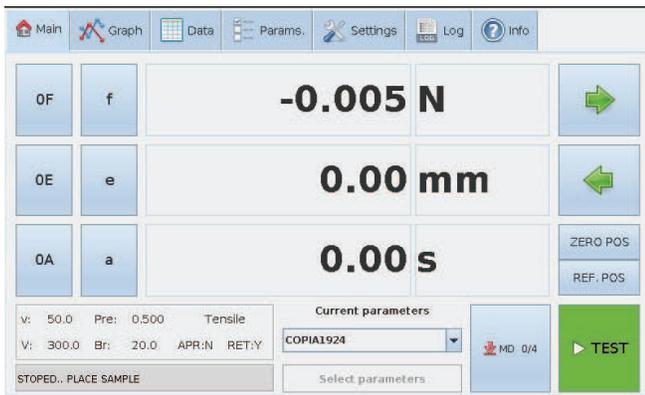




▲ Display of the tensile tester with two separate buttons for Start and Stop.

## Load Cells & 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. 50 mm wide stripes can be measured. 50 mm up to 180 mm distance between the clamps selectable
- Clamps can be used for 15 mm, 25 mm or 50 mm wide samples



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

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