



SONIC SHEET TESTER

For the determination of tensile stiffness index (TSI), -orientation (TSO), and the ratio MD to CD of TSI.

For:



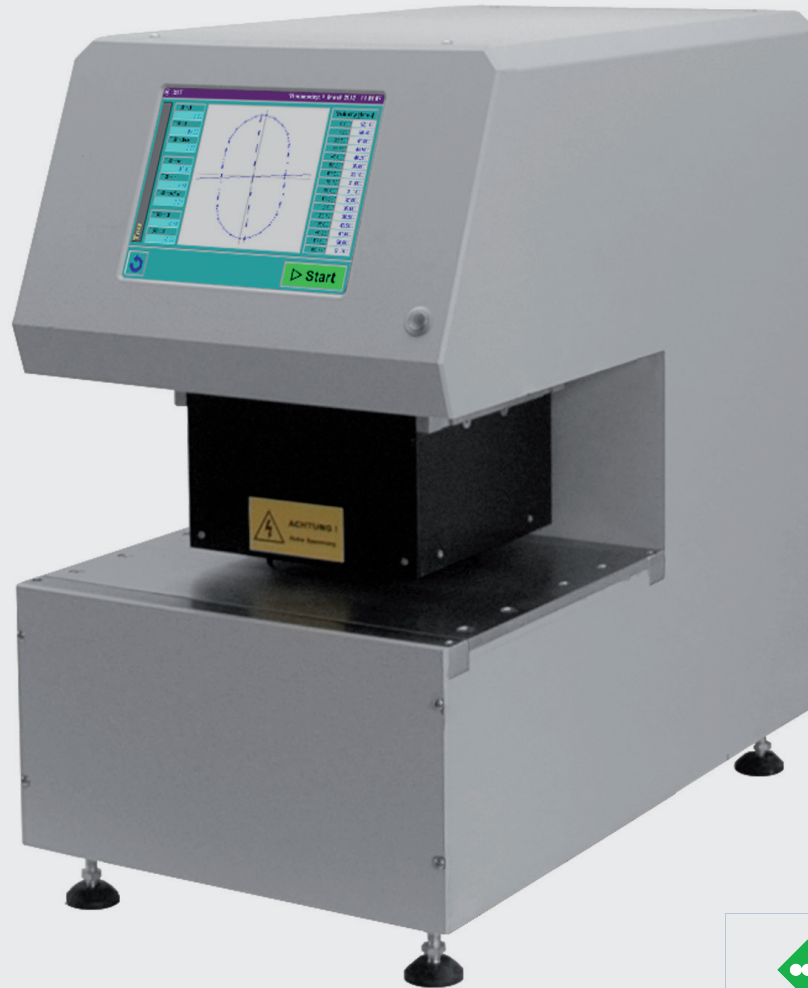
✓ PAPER



✓ BOARD



✓ TISSUE



✓ ModularLine-
capable



✓ ProbeNet-
capable

MOST IMPORTANT BENEFITS

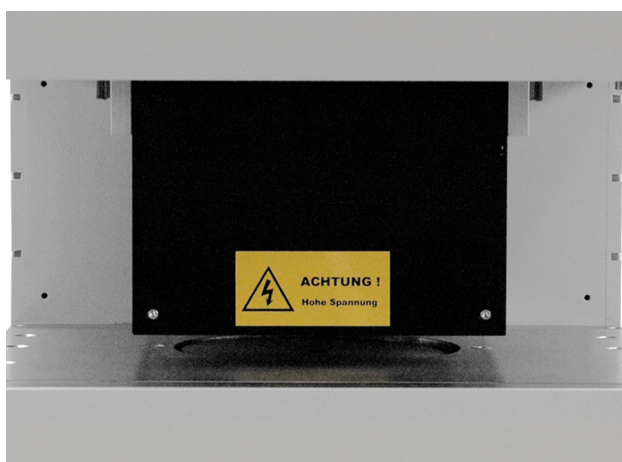
- ✓ Easy operation via the integrated touch screen
- ✓ 16 Ultrasonic sensors with a measuring area of $\varnothing 120$ mm
- ✓ 32 measuring angles, each of $11,25^\circ$
- ✓ Displays the warp angle of the tambour

PRODUCT DESCRIPTION

The specially developed ModularLine housing, which comes as standard with user-friendly touch screen and the FRANK-PTI connections, offers an exceptional basis for the high-precision measurement technology of the sonic sheet tester. This consists, in essence, of an ultrasound sensor with a measurement diameter of 120 mm as well as a transmitter located opposite. To prevent wear to the touch screen, the separate start button on the device can be used. The ModularLine sonic sheet tester can also be used as a separate laboratory device, as well as for profile testing as a module on the ModularLine.

TEST DESCRIPTION

The sample to be tested is placed in the measurement area. On pressing the start button, the ultrasound sensor, mounted behind a protective cover, lowers onto the sample. The transmitter, located opposite, creates sound waves that are directed through the material being tested and received by the sensor. The time required by the sound to travel directly and indirectly to the sensor is measured. Based on this data, algorithms are used to determine the angle of maximum tensile stiffness, along with the tensile stiffness index, which provides valuable findings on the cohesiveness of the material. These results are displayed numerically and graphically on the touch screen.



Ultrasound sensor with a measurement diameter of 120 mm

TECHNICAL DATA

DEVICE/INSTRUMENT

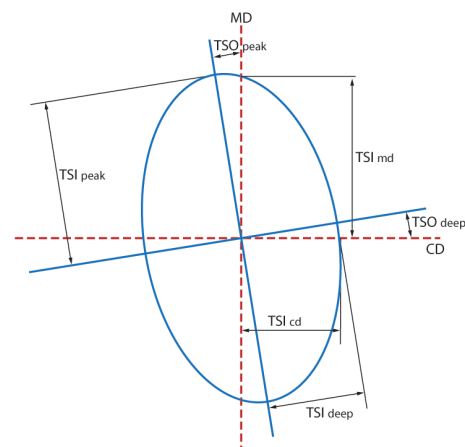
- Easy operation via the integrated touch screen
- Displays the warp angle of the tambour
- Measuring area: \varnothing 120 mm
- 32 measuring angles, each of 11.25°
- Measuring range: 20 – 200 μ s (7.5 bis 0.75 km/s)
- 16 Ultrasonic sensors (8 pair)
- FRANK-PTI standard-ports (see page 6)
- Compatible with ProbeNet (see pages 84 – 87)
- Useable as ModularLine unit

INSTALLATION REQUIREMENTS

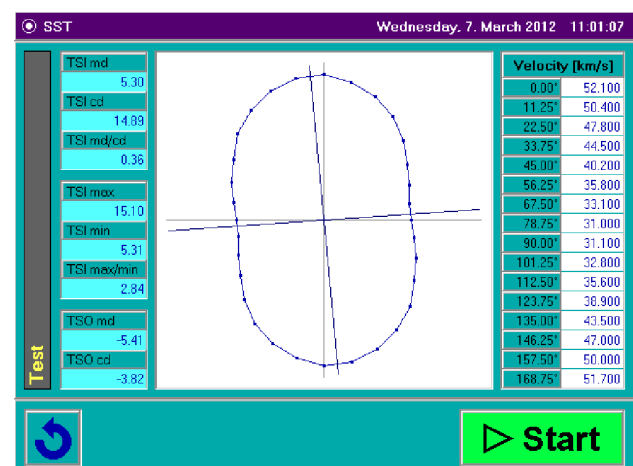
Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	4 – 6 bar

APPLICABLE STANDARDS

No standards available



TSO and TSI orientation and peak



Display of the result on the touch screen