The PTA-Line sonic sheet tester is used wherever the characteristics of a material in further processing must be predicted. These range from simple cutting of the material to the final format, through colour printing, to corrugated board production. The raw materials can already be tested during production control for possible difficulties during further processing. This makes it possible to take action right then during ongoing production, and avoid later complaints. Additionally, the angle of maximum tensile stiffness orientation (TSO) provides the possibility of displaying the running characteristics of a paper machine. This allows the optimisation of processes, and the saving of time, energy, and effort.

A measuring head with a diameter of 120 mm is pressed against the sample with a defined pressure. Ultrasound sensors capture the sound waves produced by the transmitter placed opposite. The time taken by the sound to travel directly and indirectly through the sample is the basis of this measurement. Based on this data, an algorithm is 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.

- Easy operation via the integrated touch screen
- Measuring area: Ø 120 mm
- 32 measuring angles, each of 11.25°
- Measuring range: 20 – 200 µs (75 bis 0.75 km/s)
- 16 Ultrasonic sensors (8 pair)
- FRANK-PTI standard-ports (see page 12)
- Compatible with ProbeNet (see pages 254 – 257)

For more information see page 108.

Applicable standards
- No standards available