

# HORIZONTAL TENSILE TESTER

Tensile resistance is one of the most important characteristics to be determined in the fabrication process and in the physical characterisation of paper and paperboard.

The DI-21 determines the tensile strength, stretch and tensile energy absorption of paper and tissue for the quality control and R&D.

User-friendly menu-driven software combined with an automatic detection and pneumatic clamping system, result in accurate and repeatable testing.

The horizontal tensile tester can perform wet tensile tests on papers according to test method ISO 3781, which indicates the external wetting of the central section of the test piece and removal of excessive water using blotters.

The standard DI-21 has 25 mm wide grips and a 500 N loadcell suitable for testing regular papers.



Model DI-21

## Features

- Standard results : tensile strength, elongation and tensile energy absorption including statistical analysis
- Automatic detection and clamping of the sample
- Offers selectable testing units and complete statistics for series of tests
- Final test results with statistical analysis automatic displayed at the end of a series of tests
- Complete test report incl. identification of operator and sample, real date and hour, all test results and complete statistical analysis can be printed directly to a local printer through the parallel port and transferred to PC through the serial port
- Easy, fast and accurate operation



*Cardboard, Paper*

## Physical specifications

### Easy operation

Large digital display and menu-driven software

### Dimensions

77 x 42 x 30 cm (WxDxH)

### Net Weight

39 kg

## Options

- 50 mm wide grips and 100 N loadcell, suitable for testing very soft papers like tissue
- zero span test device model
- sample cutter model 2G-15

## Standards

ISO 3781, 1924-2, 1924-3, TAPPI T-494

## Performance data

### Measuring range

0 - 500 N

### Precision

0.1 N

### Testing length

100-180 mm adjustable

### Test speed

0-100 mm/min

### Return speed

300 mm/min

### Choice of load units

N, Pa, kgf, kgf/cm<sup>2</sup>

### Power Supply

220 V, 50/60 Hz, 200 W, single phase

### Air Supply

6 bar, compressed air clean, dry lubricated

### Rupture level

20 - 100 %



Agent