Article No. S53984

Stand Alone

1 Elmendorf Tear Tester

Determines the tearing resistance of various materials.

For:

- ✓ PAPER
- ✓ BOARD
- ✓ TISSUE

ModularLine version available

✓ ProbeNet-capable

MOST IMPORTANT BENEFITS:

- ✓ Easy operation via the inbuilt touch screen
- ✓ Pneumatic sample clamping and automatic pendulum return
- ✓ Fully-automated clamping and test sequence
- ✓ Easy-mount exchangeable pendulums

FRANK-PTI QUALITY TESTING INSTRUMENTS

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PRODUCT DESCRIPTION

The Elmendorf tear tester has been developed specially for the paper industry and is outstanding for simplicity of operation and high measurement accuracy. The exchangeable pendulum is equipped with a pneumatic sample clamp. The initiation and return of the pendulum, as well as sample cutting is completely automatic. The device is operated via an integrated touch screen, where the test method can be selected, specific settings can be adjusted, and, after the measurement, results and statistics can be displayed. Each pendulum is supplied with the appropriate control weight so that, with the help of the service program, it can easily be checked for functionality and balance.

TEST DESCRIPTION

Up to 16 samples (acc. to standard 4 samples), prepared with a sample punch, are placed on top of another and inserted into the sample holder. On the touch screen, the number of samples inserted is selected, these are allocated to a test series (MD/CD) and the start button is pressed. The samples are automatically clamped and cut with a blade. Then the pendulum is automatically initiated and tears the sample above the cut. The pendulum is slowed, returned automatically to the start position, and the destroyed samples are released. The force required to tear the sample is displayed on the touch screen. If more than one run is carried out in MD and CD, these can be compared as statistics, and the results displayed.

Automated cutting blade for cutting the sample

TECHNISCHE DATEN

DEVICE/INSTRUMENT

- Exchangeable Pendulum
- Acryl protection cover
- Pneumatic sample clamping
- Easy operation via touch screen
- Fully automated test sequence and pendulum return
- Control weights for pendulums
- Printer interface for HP-Laserjet compatible printers
- Compatible with ProbeNet

APPLICABLE STANDARDS

DIN EN ISO 6383-2, 13937, 1974
TAPPI T414
TAPPI T496 (sample prep.)
*more standards on request

MEASUREMENT

Measuring accuracy	+-1% (scale value) depending on pendulum
Display:	
Tear resistance	[mN] / 1 decimal
Percentage	[%]
Index	[mNm²/g]
Measuring range	Depending on pendulum
Angle	27,5°+-0,5°
Center	98+-6mm
Clamp distance	2,8+-0,3mm
Clamp size	36 x 16mm
Cutting length	20mm
Pendulum radius	230mm

CONNECTIONS

Power:	110-230V/50-60Hz
Water:	-
Compressed air:	6bar Connection for hose 6mm

DATA

RS232	Data output
USB	Service / Updates
PS/2 Interface	Mouse / Keyboard
Parallel Interface	Printer

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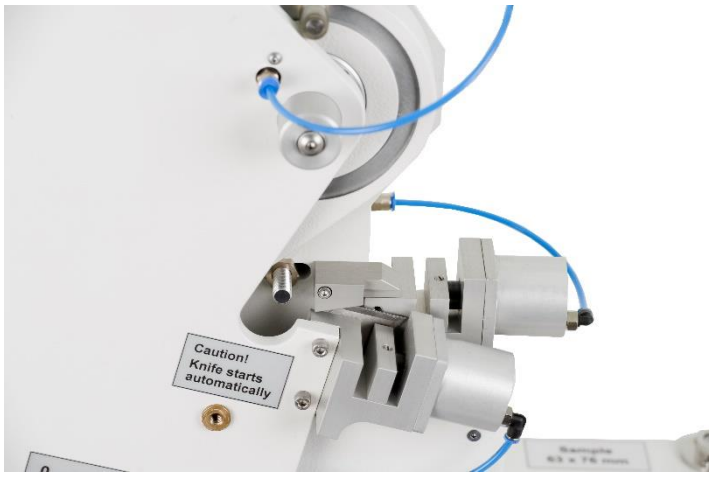
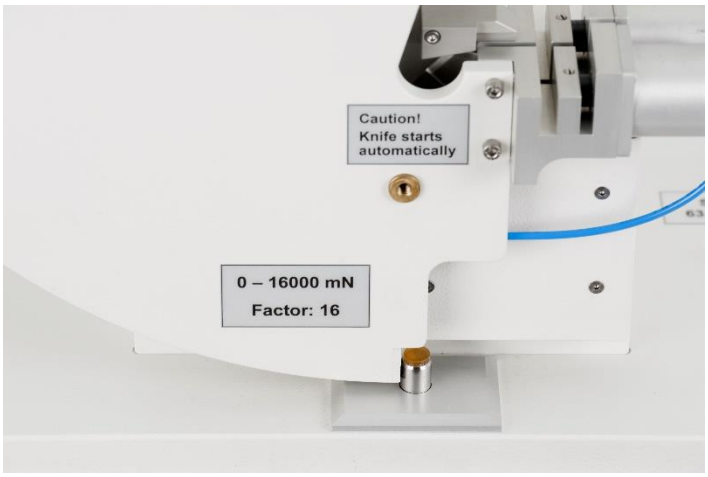


Pneumatic clamps



Automatic pendulum release and brake

DIMENSIONS

Version	**L x H x B**
S539840001	330 x 520 x 480mm
Weight:	net/gross
S539840001	26kg / ca. 36 kg

ARTICLES / MODELS

S539840001	Elmendorf TS tear tester digital (without pendulum)
Pendulum	
S539841006	Pendulum 0 – 2.000mN
S539841004	Pendulum 0 – 4.000mN
S539841001	Pendulum 0 – 8.000mN
S539841002	Pendulum 0 – 16.000mN
S539841003	Pendulum 0 – 32.000mN
S539841007	Pendulum 0 – 64.000mN
Accesories	
S539841009	Test weight for Pendulum 0 -16.000mN
S539841010	Test weight for Pendulum 0 - 8.000mN
S539841005	Knife for replacement Elmendorf
S539841008	Brake pad silicone
Sample Preparation	
S403310002	Sample punch manual Elmendorf 63 x 76 mm
S403310003	Sample punch manual Elmendorf 63 x 50 mm acc. ISO
S403310004	Sample punch manual Elmendorf 62 x 50mm acc. TAPPI
S209100006	Sample punch pneumatic Elmendorf acc. ISO 63 x 50 mm
S20910000*	Sample punch pneumatic Elmendorf acc. TAPPI 62 x 50 mm

*punches with individual sizes on request

S539840001 + S539841006
Elmendorf mit Pendel 0 – 2.000mN