

# Tear Tester

## MODEL 83-20



### Quick accurate and repeatable

The Tear Test measure the force required to tear a sample. The sample can be paper, paperboard or textile. The test is also known as the Elmendorf Test. This instrument pneumatically clamps the sample, after closing the safety hood, the sample is pre-cut and automatically torn. Since not all samples require a pre-cut, this option can be switched off. The tear tester is supplied with different weights making sure you can always measure with the correct range.

### Test results

The different weights enables the user to get the highest possible resolution and with that accurate results. When a different weight is attached, the instrument recognizes the weight and adapts the calculation and resolution. There is a function available to measure multiple sheets. The test results can be shown in different units.

### Features

- Two models (6,400 or 10,000 gram)
- Automatic testing
- Automatic recognition of pendulum weight
- Test with multiple sheets
- Verification weights available
- Pneumatic clamping
- Very accurate at low range

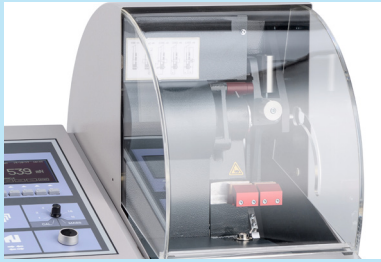
### International Standards

- Tappi T414,
- APPITA P 400,
- ASTM D 689, D 1922, D1424
- NEN 1760,
- BS 4468,
- SCAN P11,
- UNI 6444,
- CSA D9
- ISO 1974, 6383/2, 13937-1
- NF T.54.141, G.07.149
- M&S P-29

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### Safety

To ensure safety and an easy work flow, the instrument is equipped with a transparent hood. The test sequence is easy: after the safety hood is closed the test will start.



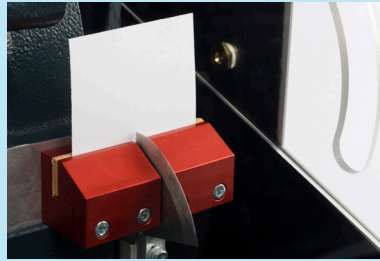
### Cutter of 83 x 76mm

According to the standard a sample of 83mm x 76mm is required. In order to ensure these dimensions, a special cutter is offered as an accessory.



### Special grips

The mechanical-pneumatic grips ensure a constant pressure. This avoids slippage ensuring perfect reproducibility of the experimental conditions.



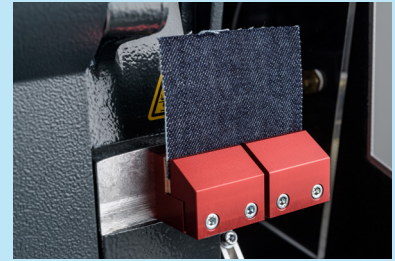
### ED30 0 - 6400 gram

The instrument is available in two versions: the ED30 and 32. The ED 30 comes with 400; 800; 1,600; 3,200 and 6,400 gram. The stable frame enables to measure low values as 20 grams.



### Pendulum recognition

Changing the pendulum weights is done with a single bold. The pendulum is automatically recognizes.



### ED 32 0 - 10,000 gram

The ED 32 comes with a weight of 5,000 and 10,000 gram. The clamps have extra grip making sure the sample cannot slip.

### Specifications

Model	83-20 or 83-21
Pendulum range	
Model 83-20	400; 800; 1,600; 3,200; 6,400 gram
Model 83-21	5,000; 10,000 gram
Accuracy	1.0% pf pendulum range
Calibration weights	20%, 50% and 90%
Measuring principle	Hi-resolution digital encoder
Statistics:	Min, max, average, SD, COV, Tear Index
Language	Multiple available

### Installation requirements

Electrical	110 V/60 Hz or 220V/50 Hz
Air	600-700 kPa
Weight	52 kg (115lbs)
Dimension	54, 50, 50 cm (WxDxH) 21.3 x 19.7 x 19.7 inch

### Output

RS 232

### Optional/ accessories

GraphMaster Pro Software,  
verification weights, cutter