

**tearTESTER I™**  
 (Can work for three Ranges: 1600, 3200, 6400 gms.)

**INTRODUCTION**

Paramount **tearTESTER™** is very useful to evaluate the tearing strength of woven & knitted fabrics, plastic films, or other similar materials. The instrument works on Elmendorf principle.

**EQUIPMENT**

Paramount **tearTESTER™** consists of a specially designed pendulum pivoted on anti-friction ball bearings on a vertical bracket fixed on a rigid metallic base. One of the Jaws for gripping the sample is mounted on the pendulum and the other is mounted on the Vertical Arm. The Jaws clamps are mounted in such a manner that their holding faces are aligned with each other when the pendulum is locked in its raised position. An adjustable knife is also mounted on the Vertical Arm to give pre cut in the sample. The pendulum is released by lifting a brake release lever. This action causes the test specimen to tear right through. The tearing strength is indicated on a calibrated scale fitted on the pendulum by a fine pointer. Three specially designed calibrated weights are provided with the equipment to increase the capacity of the equipment from 1600gms to 3200 gm & finally 6400gms. A Set of calibrated check weights are also provided with the equipment for checking the calibration of the scale at 1600, 3200, and 6400 gms. Capacities. The equipment is meticulously finished in grey & blue paint.

**SALIENT FEATURES**

- Specialized equipment to determine tearing strength of fabrics.
- Maximum Capacity 6.400Kgs.
- With adjustable cutting knife to give initial cut to the fabric.
- Having three variable capacity 1.600kg, 3.200kg & 6.400kg for different type of fabrics.
- Latest design with modern sophisticated look.
- Complete with accessories including three calibration weights.
- Supplied with calibration & inspection certificates.

**tearTESTER™ is supplied complete with below accessories.**

Main Unit	: 01 No.
Augmenting Weight for 1600 gms.	: 01 No.
Augmenting Weight for 3200 gms.	: 01 No.
Augmenting Weight for 6400 gms.	: 01 No.
Bush for Augmenting Weight	: 01 No.
Allen Bolt (Small & Big) for Augmenting Weight	: 01No. (Each)
Allen Key (5 mm)	: 01No.
Specimen Cutting Template	: 01 No.
Weight to Check Calibration (1600, 3200 & 6400 gms.)	: 01 No. Each
Calibrator Rod (Calibration Weight)	: 01 No.
Dust Cover	: 01 No.
Detailed User's Manual	: 01 No.
Calibration Certificate (Traceable to NPL).	: 01 No.
Inspection & Conformance Certificate	: 01 No.



**TECHNICAL DETAILS**

Capacity	: 1600 gms (By adding Augmenting weights)
	: 3200 gms (By adding Augmenting weights)
	: 6400 gms (By adding Augmenting weights)
Clamping surfaces of each clamp	: 35.5 mm Length x 15.5mm width
Distance between clamps	: 2.5 <sup>±0.25</sup> mm
Tearing Distance	: 43 <sup>±0.15</sup> mm
Slit Size	: 20 <sup>±0.2</sup> mm
Balancing weight main pendulum	: 50 x 50 x 2.5 mm
Main pendulum	: 240 (R) x 5 (T) mm
Template Size	: As per ASTM Standard.
Scale Reading	: 0 to 100% of range (Least Count : 1%)
Calibration check weights	: At 1600 gms.
	At 3200 gms.
	At 6400 gms.
Overall Dimension of the Unit	: 520 (L) x 255 (W) x 560 (H) mm.
	20.5" (L) x 10" (W) x 22" (H) Inch.
Net Weight of the Unit	: 28 Kg. (61.6 lbs)

**RELATED STANDARDS**

- BS 4253
- ASTM D 1424 - 96
- DIN 53862
- M&S P 29
- BSEN ISO 13937
- BS 4468

