

**405 Series  
Elmendorf Impact Resistance  
Test Machine**

**Test Applications**

The 405 Series test machines is used to determine the tear force of paper, fabrics, and plastics. Notched specimens are struck by a falling pendulum and the energy required to tear the test specimen is determined. This machine can be used to test a number of standard tests including the following;

- TAPPI:** T414, T496, and T470
- ASTM:** D1424, and D1922
- ISO:** 1974, 6383-2, and 9290

**Design features**

- Manual display of specimen tear strength
- Cutter included

**Overview**

TestResources 405 Series machine is designed according to ASTM D1424 ASTM D1922 standards for determining the tear force of paper. Materials used with this machine include paper, fabrics and plastics.

Tear force for these materials is determined by a falling pendulum. The falling pendulum propagates a single-rip tear starting from a cut in the sample.



**TestResources 405 Series Machine**

Model	405-100	405-1000	405-3200
Specimen Size		25 x 12 mm	63.5 x 100 mm
Capacity	100 g	1000 g	0 ~3200 g / 0 ~ 6400 g
Approximate Dimensions	50 X 35 X 40 cm	50 X 35 X 40 cm	50 X 35 X 40 cm
Approximate Weight	13 kg	13 kg	25 kg