



55944 Young's Modulus Setup is a complete system used to determine Young's Modulus of Elasticity of materials. When a metal wire is stretched beyond its elastic limit then its cross section is reduced i.e. its structure is changed internally. These changes increase with repeated drawings. The hardness and elasticity of the material are profoundly affected. Setup is used to investigate the change in length of a sample under a varying tension.

Features

1. Precise measurement by Spherometer
2. Self-contained and easy to operate
3. Buzzer indicator
4. Samples - Aluminum, Brass and Iron
5. A complete setup with stand, weights and different samples

Object

1. Determination of Young's Modulus of Elasticity of the given samples by bending

Technical Specifications

Sample 1

Material	:	Iron
Length	:	100cm
Breadth	:	2.5cm
Depth	:	0.6cm

Sample 2

Material	:	Brass
Length	:	100cm
Breadth	:	2.6cm
Depth	:	0.5cm

Sample 3

Material	:	Aluminum
Length	:	100cm
Breadth	:	2.55cm
Depth	:	0.5cm
Weight	:	500g (6 Nos.)

Spherometer

Main scale	:	0-30mm
Circular Scale	:	100 divisions
Least Count	:	0.01mm
DC Power Supply	:	12V
Mains Supply	:	230V \pm 10%, 50Hz

Note: Specifications are subject to change.