



OMEGA TYPE ES-425 Experimental Set Up has been designed specifically use of vernier caliper , screw gauge & spherometer.

The set up is absolutely self contained and requires no other apparatus.

Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT:-

01 Use of Vernier Callipers to

- 1.1 measure diameter of a small spherical/cylindrical body,
- 1.2 Measure the dimensions of a given regular body of known mass and hence to determine its density;
- 1.3 Measure the internal diameter and depth of a given cylindrical object like beaker/ glass/ calorimeter and hence to calculate its volume.

2 Use of screw gauge to

- 2.1 Measure diameter of a given wire,
- 2.2 Measure thickness of a given sheet
- 2.3 Determine volume of an irregular lamina

03. To determine the radius of curvature of a given spherical surface by a spherometer

FEATURES

- 01. Micrometer Screw Gauge brass body stops arrangement 20 x 1 /100 mm
- 02. Vernier Calliper : Steel, Chromium plated, one side graduated in inches (5") & the other in cms (12 cms.) with adjusting wheel and depth gauge.
- 03 Spherometer
- 04 D - convex Mirror Size 50 X 15mm for spherometer
- 05 Wire Iron Size 4" SWG 16/18/20 for screw Gauge
- 06 Bob : Size 10 mm for vernier
- 07 Backlite Rectangular Plate Size 2 X 3 " Thickness 1.6 mm for vernier / screw Gauge
- 08 Backlite E Regular Size 2 X 3 " / 2 Thickness 1.6 mm for screw Gauge
- 09 Beaker: 250 ml for vernier
- 10 Ground Glass Size 90X90 mm thickness 4 mm spherometer
- 11 Weight : 1 Kg. (Approx.)
- 12 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS