

**OMEGA TYPE ES-394** Experimental Set Up has been designed specifically for measuring the modulus of rigidity of the material of a given rod by static method using vertical pattern of Barton's apparatus.

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

**OBJECT: -** To determine the modulus of rigidity for the material of a given rod (Brass & Steel) by static method using vertical pattern of Barton's apparatus.

#### **FEATURES :-**

The complete Experimental Set-up consists of the followings:

#### **1. TORSION APPARATUS(VERTICAL PATTERN) OR BARTON'S APPARATUS:**

The apparatus consists of two long metal mounting rods located vertically on a T-shaped assembly and are jointed at the top through another square metal rod. Three adjustable angle measure attachments are located vertically along the lengths of the rods. The bottom T-shaped assembly has a circular drum on to which is connected the weight pan on its either side through lightweight cord. Chuck is provided at the top and bottom with tightening screws to firmly hold the experimental rod. Complete assembly mounted on a heavy cast metal tripod base with leveling screws. Includes two experimental rods - one of brass and another of steel.



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|-------------------------------------|---|
| <b>2. SLOTTED WEIGHTS</b>           | : 1/2 kilogram. (1/2kg x 12 = total weight 6 kg). |
| <b>3. SCREW GAUGE</b>               | : 1 Nos.  |
| <b>4. VERNIER CALIPERS.</b>         | : 1 Nos.  |
| <b>5. ONE METER SCALE (WOODEN).</b> | : 1 Nos.  |

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

## **OMEGA ELECTRONICS**

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