

**MOMENT OF INERTIA OF A GIVEN
BODY USING INERTIA TABLE
OMEGA TYPE ES-293**



OMEGA TYPE ES-293 Experimental Set-Up has been designed specifically to determine the moment of inertia (I) of a given body with the help of an Inertia Table.

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

OBJECT

- 01 To determine the moment of inertia (I) of a given body with the help of an Inertia Table.
- 02 To study the theorem of perpendicular axis of moment of inertia.

FEATURES

The complete Experimental Set-up consists of the followings :

- 01 **INERTIA TABLE** : It consists of an Aluminum disc of approximately 15 Cm dia with a concentric groove & having four masses in it. A inverter U-shaped metal bridge is fitted on the Aluminum disc and it's midpoint is fitted with chuck for suspension. It can be suspended by steel wire provided at the center of a long frame work provided with, circular base which is fitted with leveling screws. It is provided with auxiliary body of four different shapes. A mirror is also attached to count the number of oscillation with the help of lamp & scale arrangement (if used).

1.1 METAL BODIES: Rectangular, Cylinder, Spherical, Triangular, Annular ring divided into 3 pieces

02 DIGITAL STOP CLOCK : With START/STOP operation by means of toggle switch & RESET by a push button switch.

OMEGA TYPE DSC-602 It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of $\pm 0.01\%$ (Quartz controlled). Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage of the unit is $230V \pm 10\%$ 50Hz.

03 SPIRIT LEVEL : 60 mm length. (2 nos.)

04 Vernier Callipers

05 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

OTHER APPARATUS REQUIRED:

- 01 Physical balance with weight Box.

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

OMEGA ELECTRONICS