

**Description:**

A pontoon is allowed to float in a small tank having a transparent side. Removable steel strips placed in the model for the purpose of changing the weight of the model. Displacement of weight is measured with the help of a scale. By means of a pendulum (consisting of a weight suspended to a long pointer) the angle of tilt can be measured on a graduated arc tilting the ship model, a cross bar with movable hanger is fixed on the model. Pendulum and graduated arc are suitably fixed at the centre of the cross bar. A set of weights is supplied with the apparatus.

Technical Details:

- Pontoon: Size 250 x 200 x 200 mm with a Horizontal Guide Bar for sliding weight and Removable Strips, Graduated Arc with Pointer with moveable hanger and set of weights.
- Water Tank: Size 550 x 500x 300 mm
- Front Window of Tank: Made of Glass/Perspex.
- Pointer to measure the angle of heel upto $\pm 15^\circ$
- Instruction Manual: An ENGLISH instruction manual will be provided along With the Apparatus.
- A set of weights(50 gm) each is supplied with the apparatus. Tanks will be made of Stainless Steel.
- Pendulum and graduated are for accurate measurement of Tilt angle.

Utilities Required:

- Water Supply (Initial Fill).
- Floor Area 1 m x 0.6 m.
- Drain required.

Experiment:

- Determination of the metacentric height and position of the metacentric height with angle of heel of ship model.
- To determine the loading capacity & corresponding position of the metacentre.
- Study the change in meta-centre height as the C.G of the vessel changed ie. either lowered or raised.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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