

Product Code . JL-FML-10026

## Metacentric Height Apparatus



### Description

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#### 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.

For tilting the ship model, a cross bar with two movable hangers is fixed on the model. Pendulum and graduated arc are suitably fixed at the center of the cross bar.

A set of weights is supplied with the apparatus.

#### Experiments:-

Determination of the Metacentric height and position of the Metacentric height with angle of heel of ship model.

#### Technical Specification:-

**Pontoon** : Size 300 x 150 mm (Approx.) with a Horizontal Guide Bar for aliding weight.

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**Material :** Stainless Steel Pontoon

**Water Tank :** Size 600 x 400 x 400 mm (Approx.)

**Front Window of Tank :** made of Glass/Perspex

A set of weights is supplied with the apparatus.

The whole Set-up is well designed and arranged in a good quality painted Structure.

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