

Metacentric Height Apparatus



Product Categories: [Engineering Equipment](#), [Hydraulic Lab](#)

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Product Page: <https://www.labappara.com/product/metacentric-height-apparatus/>

Product Description

Metacentric Height Apparatus - Engineering Equipments

Metacentric Height Apparatus is used to measure the initial static stability of a floating body. It is calculated as the distance between the centre of gravity of a ship and its metacentre. The Unit consists of a small tank. Water is poured in it and a small ship model float over it. The ship model is provided with a horizontal guide bar, over which a small weight can be slid. Displacement of weight is measured with a scale. A pointer is attached at the centre of ship. When the weight slides, the ship tilt. The angle of tilt is measured by displacement of pointer & from then the metacentric height of ship can be studied.

Specification

Water tank with fiber lining inside.

Ship model with a horizontal guide bar for sliding weight & pointer hung from a hook.

Scales for measuring displacement of sliding weight & pointer.

Distances from centre of ship (X) = 50mm, 100mm, 140mm, 205mm

Weight of the ship Model(W_c) = 8500 gm = 0.083385 kN

Weights provided with Ship = 100 gm, 250 gm, 500 gm