

**Product Name :**  
Basic Metacentric Height

**Product Code :**  
ENGLABINGCAG300002



**Description :**

Basic Metacentric Height

**Technical Specification :**

**FEATURES:**

This apparatus is used to determine the metacentric height of a ship model under load and unload condition, (flat bottomed vessel).

This apparatus consists of:

A tank of size 60x60x30cm fitted with piezometer tube to measure the level of water.

Transparent sheet is provided on the front of tank.

A pointer to measure the angle of heel up to +/-15 Degree.

A cross bar arrangement with the provision of angling movable weights at known distance from the vertical axis through C.G.

Additional five hanging weights (50 gm Each) are provided.

Rectangular floating pontoon with mast.

Variable center of gravity via movable weights (transverse and vertical).

Clinometer indicates angle of heel.

Educational software available as an option.

Determining the center of gravity of the pontoon.

Determining the metacentric height and from this the position of the metacenter for the pontoon.

Varying the metacentric height with angle of heel.

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**SPECIFICATIONS:**

Max. Angle of heel:  $\pm 13^\circ$

Corresponding linear dimension:  $\pm 90\text{mm}$

**Pontoon dimensions:**

Length: 350mm

Width: 200mm

Overall height: 475mm



**Engineering Lab Equipment India**