

Metacentric Height Apparatus (EDC-FM-111)

EXPERIMENTAL DATA:

- Determination of the metacentric height.
- Study and determination of buoyancy, center of buoyancy, center of gravity, metacenter, stability and heel.



DESCRIPTION:

The unit can be used to study the stability of a floating body and to determine the metacenter graphically. In addition, the buoyancy of the floating body can also be determined. The experiment is conducted in a tank filled with water. A non-corrosion rectangular acrylic body is used as the floating body. Clamped weights that can be moved horizontally and vertically make it possible to adjust the center of gravity and the heel. A plumb bob, attached to the upper part of the mast, is used to measure the angle of heel of the floating base with the aid of a graduated scale.

The equipment requires a Hydraulics Bench (EDC-FM-100) as the source of water supply.

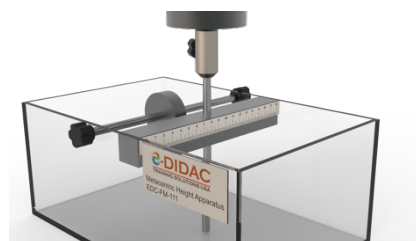
TECHNICAL DATA:

- Floating body:
 - Material: PMMA
 - Pontoon: 400mm x 200mm x 100mm
 - Mass height: 400mm.
 - Horizontal scale: 200mm.
 - Vertical scale: 400mm.
 - Clinometer scale: $\pm 35^\circ$.
- Tank for water: 50L. (Optional)

DIMENSIONS AND WEIGHT:

L x W x H (mm): 400 x 250 x 500

Weight: 5 kg



SCOPE OF DELIVERY:

- 1 x EDC-FM-111
- 1 x Set of weights
- 1 x Plumb Bob
- 1 x Instructional Manual

