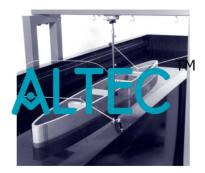
# ▲ ALTEC<sup>™</sup>

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### Product Name : Ships Vibration Test Model

Product Code : ALABS-A43-043



#### **Description :**

**Ships Vibration Test Model** 

- Apparatus designed to enable students to investigate a simple model hull form for resonance phenomena.
- The apparatus comprises an experimental model hull, a rigid supporting frame, a vibrator (complete with signal generator and power amplifier) and an optional Flotation Tank .
- The experimental model is flat bottomed, wall-sided and open topped. It has an elliptical plan form.

- Length to beam ratio 8:1

- Length to depth ratio of 12:1

- Used to demonstrate the principle phenomena associated with ship resonant vibration.
- Can be used to investigate resonance phenomena in both air and water.

## Capabilities :

-Investigate model characteristics of a simple suspended ship shaped box girder

-Produce a resonance curve .Produce the amplitude curve of a 2-node and 3-node flexural model

-Illustrate the influence of mass and its distribution upon natural flexural frequencies

### In water to:-

-Measure the influence of added virtual mass on natural frequency

-Illustrate the effect of the addition and distribution of sand ballast on the natural frequency

-Calculate the added virtual mass by different methods and compare with experimentally measured influence using a Schlick-type formula

# 

# **Equipments Exporters**

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