

ARCHIMEDE PRINCIPLE TRAINER



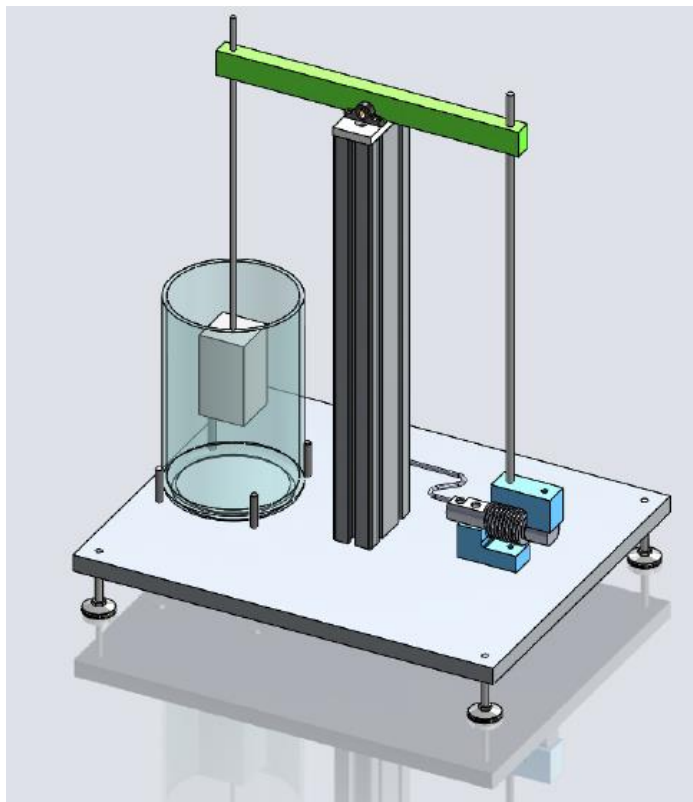
Experimental capabilities

- Measurement of Archimedes thrust by determining the weight of a volume of water displaced
- Test for volumes of different shapes
- Measurement by force sensor

Operating principle

The EPA 100 trainer makes it possible to study Archimedes' thrust in a water tank. The bench includes different shapes that can be fixed on a stainless steel rod and immersed in the water tank. The weight of the shapes is measured according to the level of immersion using a force transducer. The rugged design of this equipment makes it perfectly suited for use in schools. Its anodized aluminum structure on legs gives it great robustness as well as great flexibility of integration into your premises. The manufacture of this equipment complies with the European machinery directive.

Illustrations



Technical details

1. Support plate equipped with:
Adjustable support feet

2. Transparent tank
Polycarbonate materials
4.5 L volume

3. Measuring system equipped with:
Fixing rod
Pivot axis
Lever arm
Force transducer 5 kg
Volume Attachment Point

4. Electrical box comprising:
A case with handle
A quick connector for connecting the force transducer
A power button with indicator light
A power cord

5. Shapes to test
Four cylindrical shapes D60mm, D100mm
Two square shapes 53 mm side
Influence of PVC or Polyethylene materials
Different density
Stainless rod support

Services required

- Electrical supply : 230 V mono - 50Hz - 20A
- Water supply : 15L/min -3bars (5 L tank)
- Dimensions : (L x W x H mm) : 500 x 400 x 550
- weight (Kg): 20

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE