

Product Code . LSK-FM-10457

Hydrostatics And Properties of Fluids



Description

The bench has a reservoir that supplies water for the experiments. A tank on the unit can be filled from the reservoir for experiments that need a free-water surface. A drain tray next to the tank is for collecting and returning water to the reservoir.

The apparatus consists of a self-contained bench complete with all necessary equipment for a wide range of demonstrations and experiments in hydrostatics and properties of fluids. Much of the equipment is rigidly mounted on the bench, the remainder being free-standing items suitable for use on the bench top.

The bench is readily movable and is therefore ideal for lecture room demonstrations as well as student experiments. Experimental equipment supplied with the bench includes a fluid-level apparatus for demonstrating Pascal's law, and two U-tube manometers.

Apparatus for determination of fluid properties includes a Eureka can, a specific-gravity bottle, a hydrometer capillarity apparatus, a falling-sphere viscometer and a vernier point gauge for fluid level measurement.

A toroidal sloped tank is mounted within an integrated balance to determine centre of pressure. Archimedes' principle is proved by using a fixed mass immersed in a header of water mounted on a beam balance. Further items of equipment include a Bourdon pressure gauge with deadweight calibration, and a rectangular pontoon with adjustable weights for studies of a floating body and metacentric height.