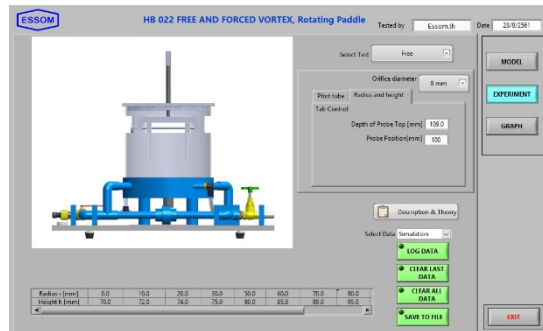


## HYDRAULICS BENCH ACCESSORIES

This apparatus is to be used with Hydraulics Bench such as HB100 or HB100N (both are separately supplied) for a water supply and flow measurement. Instruction manual is also included.

### HB 022 FREE AND FORCED VORTEX, Rotating Paddle



#### GENERAL DESCRIPTION:

This equipment is designed to produce and measure free and forced vortices. It is to be used with Hydraulics Bench i.e. HB100 or HB100N (separately supplied).

The equipment consists of a clear acrylic cylinder on a plinth. The free vortex is generated by water discharging through an interchangeable orifice at the base of the cylinder and the resulting profile is measured by a combined caliper and depth scale. The forced vortex is generated by a paddle at the base of the cylinder which is rotated by jets of water, and the profile is measured by a series of depth gauges. The velocity at any point in the free and forced vortices may be measured using a pitot tube.

#### EXPERIMENT CAPABILITIES:

- Determination of the surface profile of a free and forced vortices
- Determination of velocity

#### TECHNICAL DATA:

- Orifice diameters : 4 different sizes.
- Distance from center of depth probes : 0 to 110 mm.
- Pitot tube measuring points : 3 different radius.
- Software for data display and analysis by computer (separately supplied).

**Net (unassembled) Shipping Dimensions WxLxH** : 36 x 68 x 40 cm  
**Net Weight** : Approx. 8 kg