

HB 100 HYDRAULICS BENCH ACCESSORIES

Most of the apparatus below are to be used with HB100 Hydraulics Bench (separately supplied) for a water supply and flow measurement. Learning software is available for most experiments.

HB 022A FREE AND FORCED VORTEX, Rotating Tank GENERAL DESCRIPTION:

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

The equipment consists of a clear acrylic cylindrical tank inside which is another smaller perforated clear acrylic cylinder. The tank is rotated by a small motor. A small hole is provided at the center of the bottom of the tank. A forced vortex is formed when a fixed amount of water is contained in the rotating vessel. A free vortex is formed when water is admitted at the annulus and drain through the bottom hole. A cross bar with scale and a sliding probe holder are provided above the vessel. Water surface profile is measured by a depth probe attached to the cross bar. A transparent tube with built-in pitot probe to measure total head is also attached to the cross bar.

TECHNICAL DATA:

- Orifice diameters : 3 different sizes.
- Depth probe : 1 ea.
- Pitot tube : 1 ea.
- Portable tachometer : 1 ea.
- Power supply : 220 V, 1 Ph, 50 Hz or as required.

OPTIONAL: : Speed digital display instead of tachometer.

Net (unpacked) shipping dimensions WxLxH : 50 x 70 x 50 cm
Net weight : Approx. 25 kg

