

## ***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 012A HYDROSTATIC PRESSURE, Tilting Submerged Quadrant*** **DESCRIPTION:**

This equipment allows the moment caused by a fluid thrust on a wholly or partially submerged plane surface to be measured directly. This surface can be tilted.

A quadrant is hinged on a shaft pivoted on knife edges which coincide with the quadrant center. The quadrant position is adjustable relative to a balance arm such that the submerged plane surface can be tilted. A depth scale is indicated on the quadrant. When the quadrant is immersed in water, there are hydrostatic forces.

The balance arm has an adjustable counter balance and weights with a hanger. The quadrant is mounted on top of a clear acrylic tank which allows water to be admitted and drained to required level by a valve. The tank rests on adjustable footings and a bull's eye level is provided.

### **TECHNICAL DATA:**

- Quadrant Inner radius : 100 mm
- Outer radius : 200 mm
- Width : 75 mm
- Tilting angle : 0 to 30 degrees in either direction.
- Weights : 1 lot.

**Net (unpacked) shipping dimensions WxLxH** : 36 x 55 x 35 cm

**Net weight** : Approx. 6.5 kg

