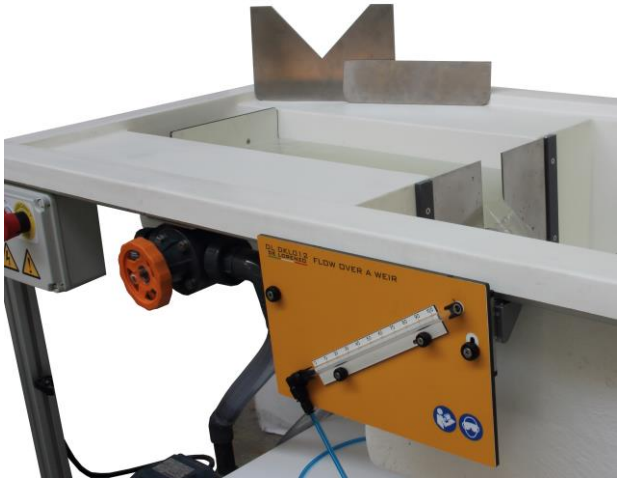
FLUID MECHANICS

FLOW OVER A WEIR



DL DKL012

It consists of some weir plates of different shapes that can be coupled to the surface channel of the DL DKL014 - Hydraulics Bench (not included).

The height of the upstream weir plate is measured by an inclined manometer connected by a tube to the channel bottom.

TRAINING OBJECTIVES

- Study and use of thin weir plates for flow measurement:
  - Rectangular weir plate without contraction
  - Rectangular weir plate with lateral contraction
  - Triangular weir plate

TECHNICAL DATA

- Rectangular weir plate without contraction.
- Rectangular weir plate with lateral contraction: length 50mm x 100mm height.
- Triangular weir plate: 90°, 100mm height.
- Height measuring system with 0.1 mm precision.
- Maximum water flow: 100 liters/min.
- Inclined manometer with a bubble level for water level reading.
- Baffle for sloshing reduction.

Necessary accessory:

DL DKL-014 – Hydraulic bench

The basic hydraulic bench is a simple, mobile, self-contained module that allows a supply of "hydraulic energy", i.e. an accurately controlled and measurable flow of water.
It includes two collecting tanks, a centrifugal pump, a flowmeter, a mobile frame work on wheels, a set of valves and piping.