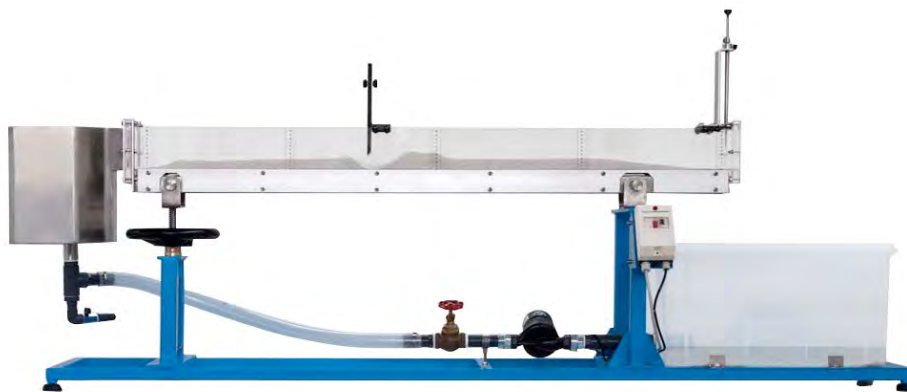


SEDIMENT TRANSPORT DEMONSTRATION CHANNEL

Mod. STDC/EV



DESCRIPTION

The Sediment Transport Demonstration Channel is designed to perform most of the experiments and demonstrations usually undertaken in much larger laboratory flumes, but at much lower cost and without need of technical support.

Sand is placed along the channel bed, between the inlet tank and the overfall discharge weir. Water is circulated around the system at a selected flow rate. The channel slope is adjusted by means of a screw jack to which is attached a slope indicator. The channel sides are transparent in order that bed profile changes can be readily observed, and a section of one side is provided with graphical grid.

This channel is mounted on to the manual jacking system, which provides positive step adjustment, via a hand wheel, with slope 0 to 10.

TRAINING PROGRAM:

- Preliminary study of dunes and ripples
- Threshold of sediment movements
- Effect of sediment size and density on bed load movements
- Bed load transport
- Suspended sediment transport
- Determination of total sediment load
- Flow visualization

TECHNICAL CHARACTERISTICS:

- Channel, 1600 x 80 x 115 (h) mm, with walls made of transparent Plexiglas
- Circulation pump
- Still tank
- Discharge tank
- Water level gauge
- Support frame
- Three different discharge rates
- Undershot weir
- Bridge pier
- Slope 0 to 10%

Power supply: 230 Vac 50 Hz single-phase - 1 kVA
(Other voltage and frequency on request)

Dimensions: 2500 x 400 x 1100(h) mm approx.

Weight: 110 kg approx

REQUIRED

UTILITIES (PROVIDED BY THE CUSTOMER)

- Water supply: first fill of water

SUPPLIED WITH

THEORETICAL-EXPERIMENTAL HANDBOOK

