

HF 505 TILTING FLOW CHANNEL, 50 mm wide



GENERAL DESCRIPTION:

This is a self contained open channel designed to study flow visualization. It is to be used with optional accessories and models below.

The channel is of rectangular cross section supported by a steel frame. Side walls are transparent to allow full visual observation. Tilting can be adjusted by a manual screw jack. A stainless steel head tank with a stilling baffle provides a smooth flow and water is returned to the storage tank.

TYPICAL TESTS:

- Open channel flow.
- Flow measurement.
- Hydraulic jump.
- Continuity and energy equations.
- Discharge under sluice gate.

TECHNICAL DATA:

- Channel size : 50 mm wide, 150 mm high and 2.0 m long.
- Tilting adjustment : -2 % to + 5 %.
- Side walls : Clear acrylic with clear vertical scale.
- Channel bed : Stainless steel.
- Flow measurement : Water meter and stop watch.
- Power supply : 220 V 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL ACCESSORIES AND MODELS:

- HF 505-010 Adjustable Bed.
- HF 505-019 Stainless steel hook and point gauge
- HF 505-020 Basic weir plate with stainless steel 60°V notch and rectangular notch weir attachment.
- HF 505-022 Sharp crested weir.
- HF 505-023 Broad crested weir, sharp edges.
- HF 505-023A Round edge attachment for HF505-023.
- HF 505-024 Crump weir.
- HF 505-040 Venturi flume made from clear acrylic with stainless steel attachment.
- HF 505-051 Sluice gate, PVC, manual sliding.
- HF 505-054 Cylindrical gate, PVC, manual sliding.
- HF 505-060 Pitot tube with manometer.
- HF 505-070 Roughened bed, gravel or sand, 0.6 m.
- HP 010 Flow digital display.

OPTIONAL CHANNEL:

- The flow channel can be supplied without water supply unit i.e. without pump and storage tank. The unit can then be used with HB100 Hydraulics Bench with full length storage tank. The channel code is designated as HF505-EM1

NOTE:

- Other accessories and models can be supplied on request.
- Length and other dimensions can be changed on request.

Net (unpacked) shipping dimensions WxLxH
Net weight

: 55 x 275 x 80 cm
: Approx. 100 kg

