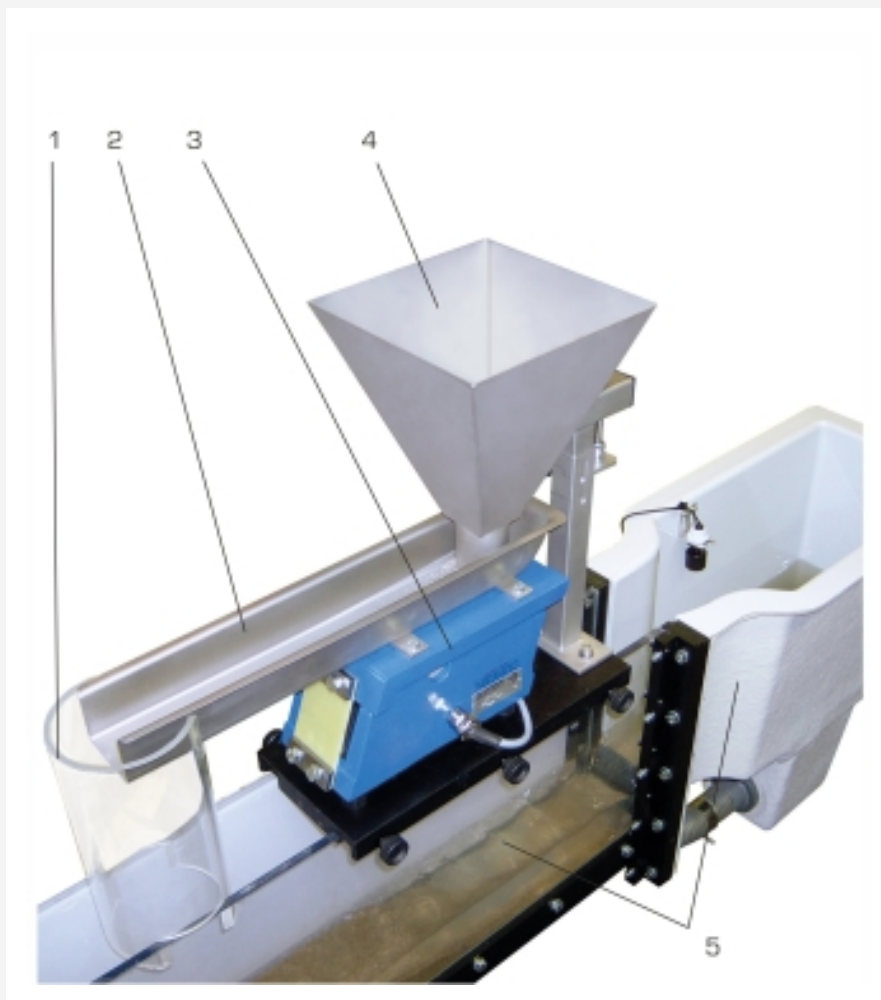


HM 160.73

Sediment feeder



1 transparent downcomer, 2 vibration conveyor flume, 3 vibration conveyor, 4 funnel, 5 HM 160 inlet of the experimental section

Description

■ sediment feed using a vibrating conveyor

The sediment feeder essentially consists of a vibration conveyor flume via which sediment is carried into the experimental section of the HM 160 flume. The vibration conveyor flume is attached to a vibration conveyor. This is controlled by a frequency converter. The sediment feeder is usually mounted above the inlet to the experimental section.

The sediment to be used is quartz sand with a grain size of 1...2mm.

HM 160.73 is not suitable for suspended load transport.

HM 160.73 is used together with the sediment trap HM 160.72.

Learning objectives/experiments

- observation of bed-load transport along the flume bottom
 - ▶ rolling and saltation bed-load transport
- influence of flow velocity on bed load transport
- together with HM 160.29 or HM 160.46
 - ▶ fluvial obstacle marks

Specification

- [1] sediment feeder for a sediment feed to the experimental flume HM 160
- [2] accessory for the sediment trap HM 160.72
- [3] mounting above the inlet of the experimental section of HM 160

Technical data

Sediment feeder

- feed rate: 0,1 m³/h
- frequency: 3000min⁻¹

Funnel content: 10L

230V, 50Hz, 1 phase
 230V, 60Hz, 1 phase
 120V, 60Hz, 1 phase
 UL/CSA optional
 LxWxH: 543x202x456mm (feeder)
 Weight: approx. 20kg

Required for operation

sediment: sand (1...2mm grain size)

Scope of delivery

- 1 feeder
- 1 set of accessories
- 1 manual

HM 160.73

Sediment feeder

Required accessories

HM 160	Experimental flume 86x300mm
HM 160.72	Sediment trap

Optional accessories

HM 160.29	Sluice gate
HM 160.46	Set of piers, seven profiles