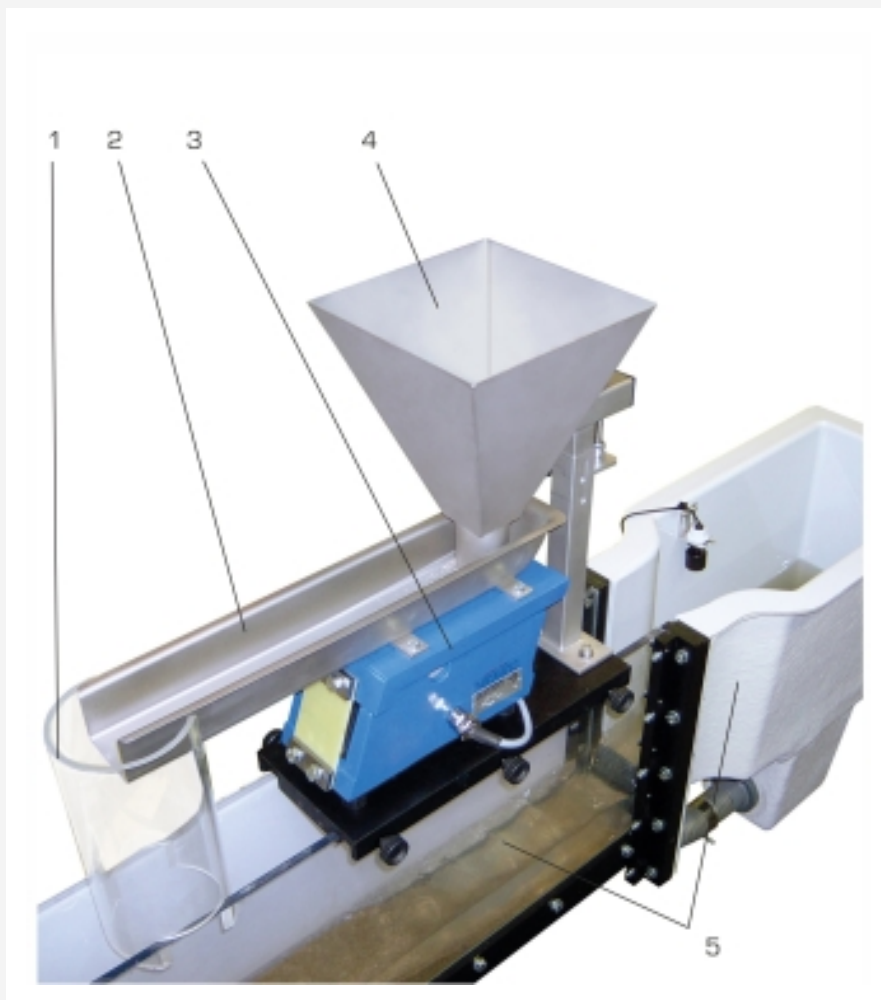


# HM 160.73

## 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:  $0,1 \text{ m}^3/\text{h}$
- frequency:  $3000 \text{ min}^{-1}$

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

070.16000	HM 160	Experimental flume 86x300mm
070.16072	HM 160.72	Sediment trap

### Optional accessories

070.16029	HM 160.29	Sluice gate
070.16046	HM 160.46	Set of piers, seven profiles