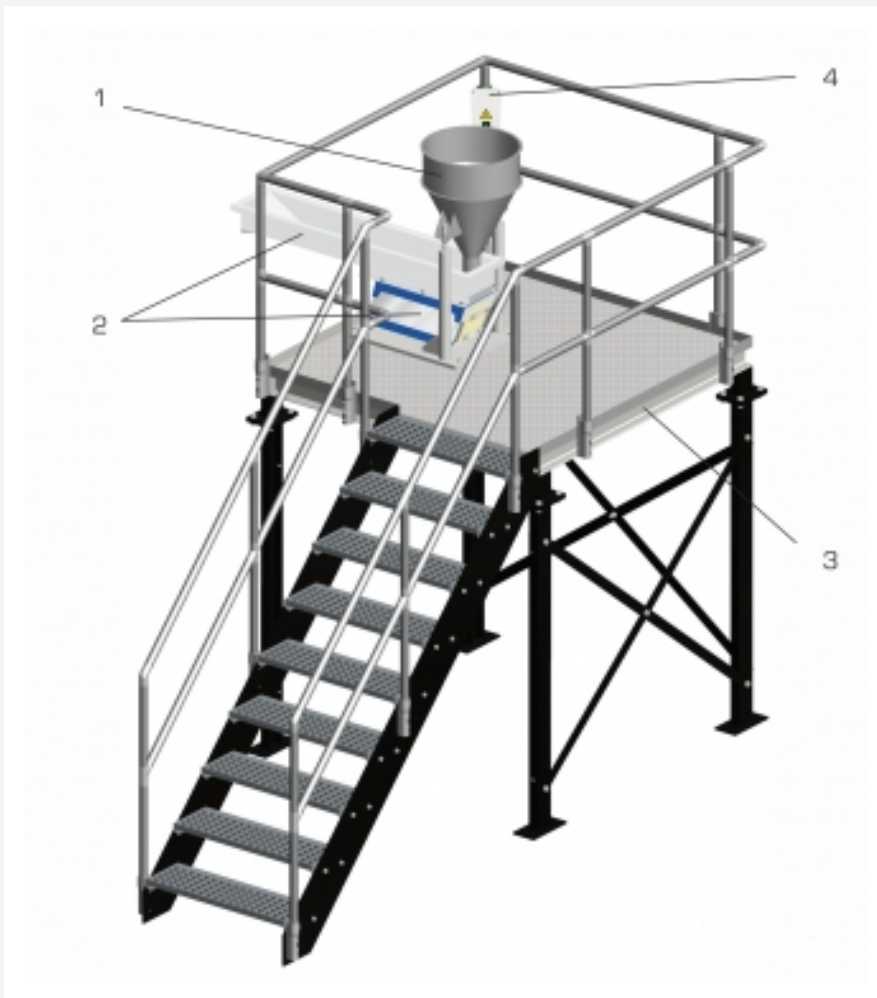


HM 162.73

Sediment feeder



1 funnel, 2 feeder with vibrating conveyor, 3 walk-on platform, 4 connection box

Description

- sediment feed using a vibrating conveyor
- operation via touch screen in HM 162

The sediment feeder essentially consists of a vibrating conveyor, via which sediment is introduced into the experimental section. The feeder is usually mounted above the inlet to the experimental section. The sediment used is sand with a grain size of 1...2mm.

The feeder is mounted on a walk-on platform that is installed next to the experimental flume. An advantage of the separate platform is that the feeder vibrations do not affect the experimental section. The accessory is automatically identified by the PLC. The feeder is operated and the vibration intensity is set via the touch screen of the HM 162 PLC.

HM 162.73 is not suitable for suspended load transport.

HM 162.73 is used together with the sediment trap HM 162.72.

Learning objectives/experiments

- observation of bed-load transport along the flume bottom
 - ▶ rolling and saltation bed-load transport
- formation and migration of ripples and dunes
- together with HM 162.29 or HM 162.46
 - ▶ fluvial obstacle marks

Specification

- [1] sediment feeder for a sediment feed to the experimental flume HM 162
- [2] accessory for the sediment trap HM 162.72
- [3] automatic identification of the accessory in the PLC
- [4] mounting above the inlet of the experimental section of HM 162
- [5] walk-on platform for the feeder
- [6] operation via touch screen of the PLC in HM 162

Technical data

Feeder

- feed rate: 0,5m³/h
- frequency: 3600min⁻¹

Funnel content: 50L

Height of the platform: approx. 1900mm

Recommended room height: 4,5m

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase

120V, 60Hz, 1 phase

UL/CSA optional

LxWxH: 1500x500x1050mm (feeder)

Weight: approx. 250kg (feeder)

LxWxH: 3800x1700x2900mm (platform)

Weight: approx. 450kg (platform)

Required for operation

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

Scope of delivery

- 1 feeder
- 1 platform
- 1 set of accessories
- 1 manual

HM 162.73

Sediment feeder

Required accessories

070.16200	HM 162	Experimental flume 309x450mm
070.16272	HM 162.72	Sediment trap

Optional accessories

070.16229	HM 162.29	Sluice gate
070.16246	HM 162.46	Set of piers, seven profiles