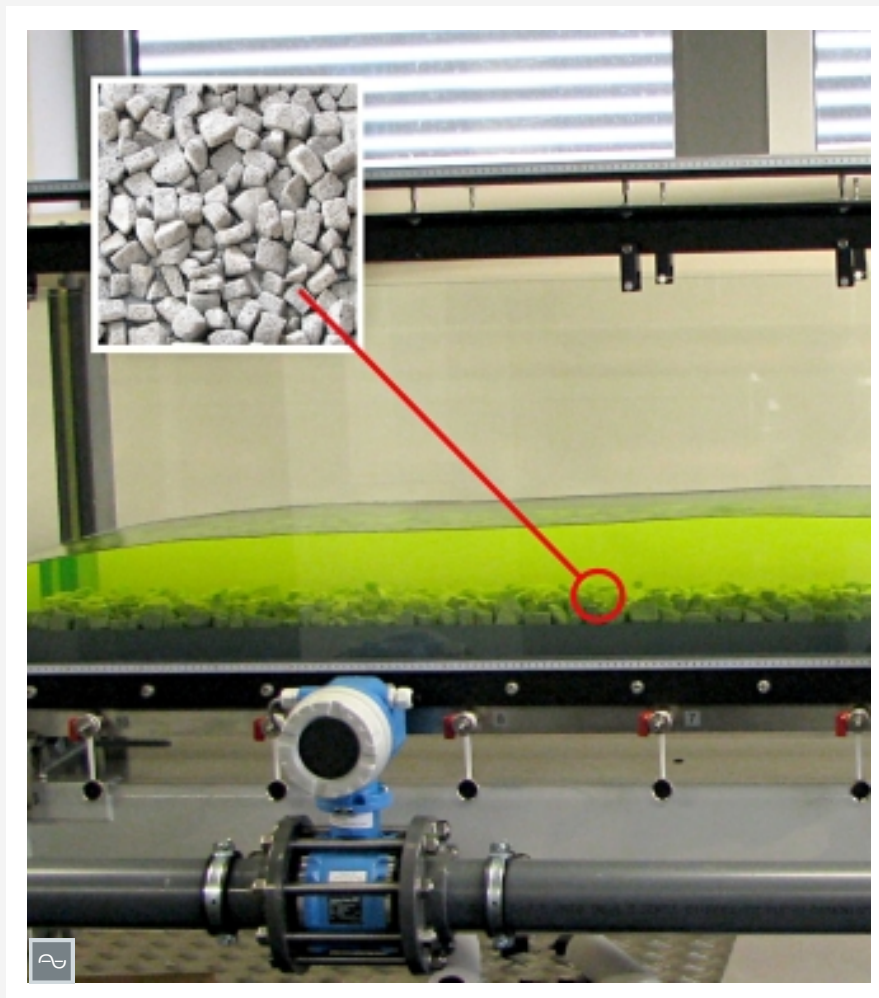


# HM 163.77

## Flume bottom with pebble stones



### Learning objectives/experiments

- fundamentals of open channel flow
  - ▶ uniform and non-uniform discharge
- effect of flume bottom roughness on flow behaviour
- flow formulae

### Specification

- [1] flume bottom for the experimental flume HM 163
- [2] flume bottom with pebble stones consisting of two elements

### Technical data

Flume Bottom  
 ■ LxWxH: 2500x404x70mm  
 LxWxH: 2500x404x70mm  
 Total weight: approx. 24kg

### Scope of delivery

- 2 elements
- 1 set of accessories
- 1 manual

### Description

#### ■ fundamentals of open channel flow

For the same discharge, the flow behaviour of a river depends mainly on the flume slope and on the flume roughness. Uniform discharge with constant depth is called normal discharge. For a different roughness respectively a different slope, normal discharge changes to non-uniform discharge.

The flume roughness is changed using the flume bottom HM 163.77. The experimental flume HM 163 can be inclined.

# HM 163.77

## Flume bottom with pebble stones

Required accessories

HM 163                    Experimental flume 409x500mm