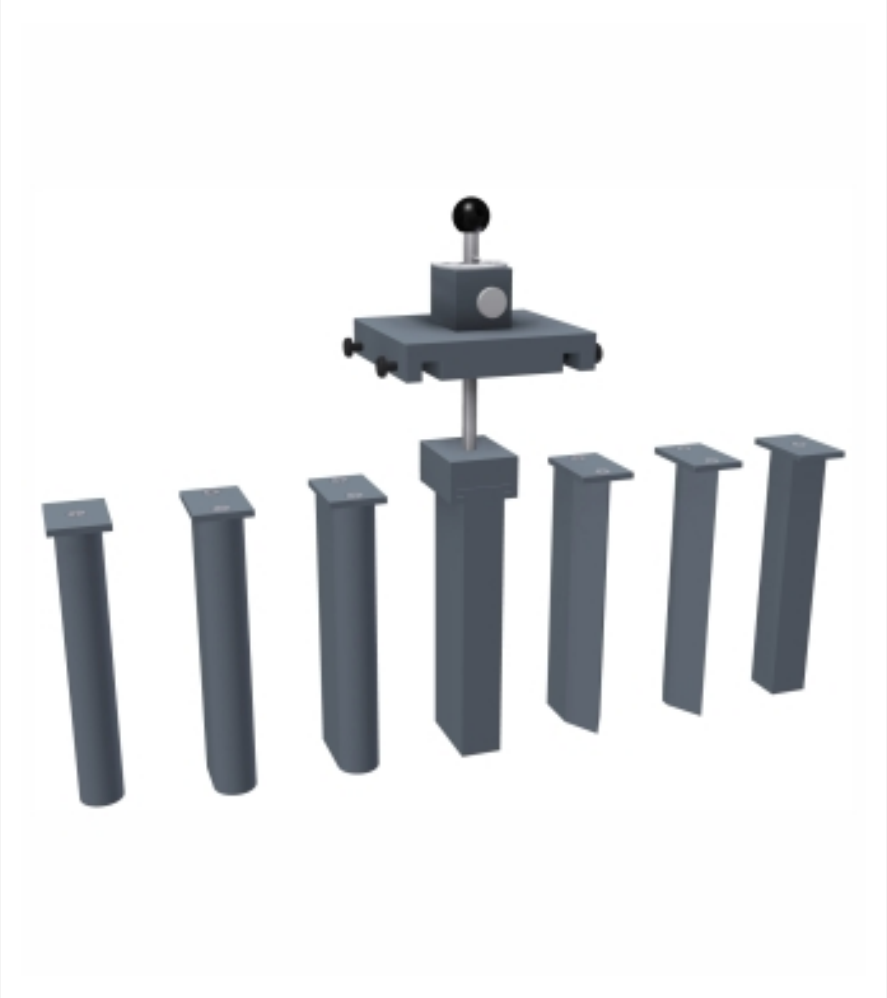
HM 160.46
Set of piers, seven profiles



Learning objectives/experiments

- subcritical discharge with reduction of cross-section
- supercritical discharge with reduction of cross-section
- effect of the pier profile
- backwater upstream of piers
- flow transition at the pier
- effect of angle of attack

Specification

[1] piers for the experimental flume HM 160
[2] little or considerable reduction of cross-section caused by piers
[3] pier profiles: rectangular, circular, square, rounded on one end, rounded on both ends, tapering profile on one end and tapering profile on both ends
[4] pier holder with clamping device for the mounting into the experimental flume
[5] pier holder with angle scale to indicate the angle of attack

Technical data

Piers made of PVC

Angle scale
- ±90°
- graduation: 45°

LxWxH: 150x120x403mm (total)
Weight: approx. 5kg

Scope of delivery

1 set of piers with different profiles
1 holder with clamping device
1 set of accessories
1 manual

Description

- **lateral reduction of cross-section in the flume**

Obstacles in flumes reduce the flow cross-section. This may lead to to backwaters upstream of the obstacles.

HM 160.46 contains several piers with different profiles typical for bridge piers. The discharge behaviour with reduction of cross-section is studied with a single pier. The effect of the angle of attack can be studied by turning the mounted pier.

A clamping device fixes the pier in the experimental flume. An angle scale indicates the angle between pier nose and flow.

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Required accessories

HM 160	Experimental flume 86x300mm