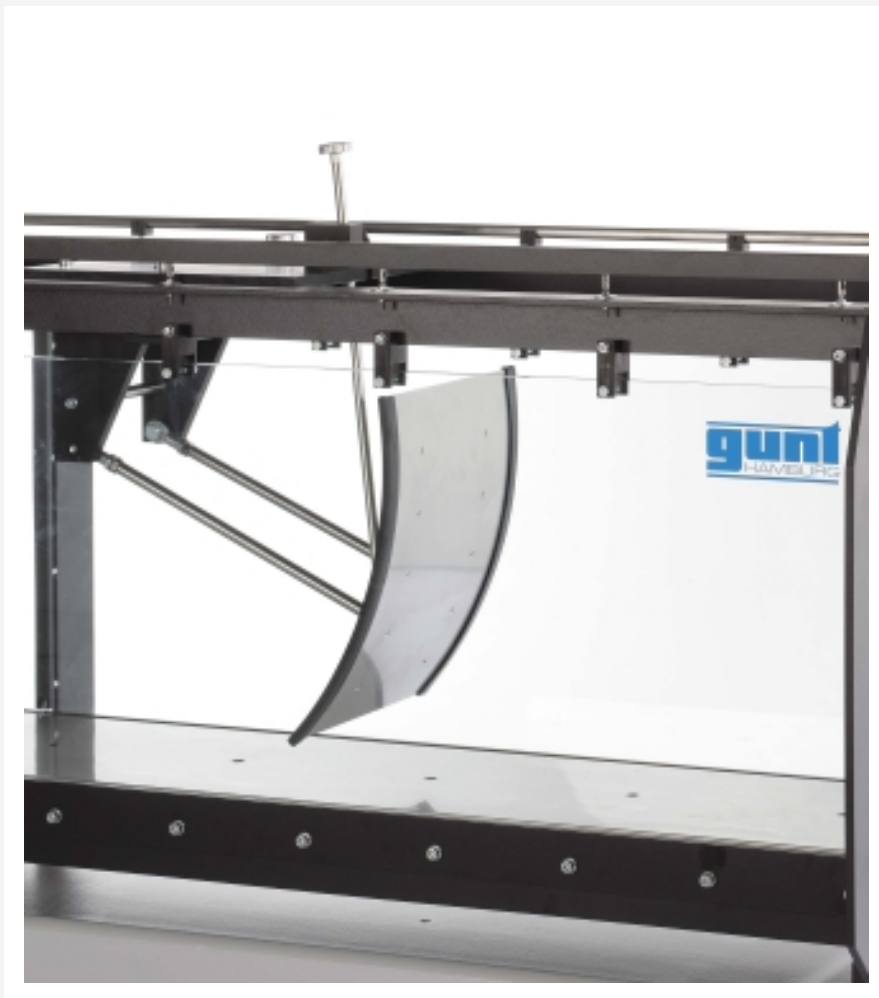


# HM 161.40

## Radial gate



The illustration shows a similar unit

### Description

#### ■ flow under a radial gate

Radial gates are movable control structures. The water flows under the gate. The core element of a radial gate is a wall with the shape of a segment of a circle. The gate causes backwater in the flume.

Radial gates are often used in combination with a fixed control structure, e.g. a broad-crested weir. These combinations are typical for barrages. With them the discharge in the open channel can be adjusted and controlled according to the needs.

The gate opening of the radial gate HM 161.40 and therefore the discharge under the gate can be manually adjusted.

### Learning objectives/experiments

- free discharge under a radial gate
- submerged discharge under a radial gate
- observation of jet contraction (vena contracta)
- observation of downstream hydraulic jumps

### Specification

- [1] radial gate for the experimental flume HM 161
- [2] radial gate with lateral sealing lips
- [3] height adjustment using lever

### Technical data

Gate

- weir plate made of stainless steel, width: 600mm

LxWxH: 1000x600x1250mm

Weight: approx. 20kg

### Scope of delivery

- 1 weir body
- 1 set of accessories
- 1 manual

# HM 161.40

## Radial gate

Required accessories

HM 161                    Experimental flume 600x800mm