

# HM 170.05

## Drag body square plate



### Learning objectives/experiments

- experiments on bodies immersed in a flow
- determination of the drag coefficient ( $c_d$  factor)

### Specification

- [1] square plate as drag body for experiments on bodies immersed in a flow
- [2] accessory for the wind tunnel HM 170
- [3] bracket made of corrosion-resistant steel
- [4] square plate painted for smooth surface

### Technical data

#### Square plate

- LxWxH: 71x71x1 mm
- steel sheet, 1 mm
- painted in RAL 3000

#### Bracket

- corrosion-resistant steel
- $\varnothing$  4mm

LxWxH: 71x4x280mm

Weight: approx. 0,2kg

### Scope of delivery

- 1 drag body

### Description

#### ■ experiments on bodies immersed in a flow

The square plate drag body is investigated in the measuring section of the wind tunnel HM 170. The drag body consists of a square plate made of steel sheet and a mounting rod made of corrosion-resistant steel. The square plate is painted red. The drag body is placed in the force sensor, this indicates the drag force as a measured value in flow around bodies.

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### Required accessories

HM 170            Open wind tunnel

### Optional accessories

HM 170.40        Three-component force sensor