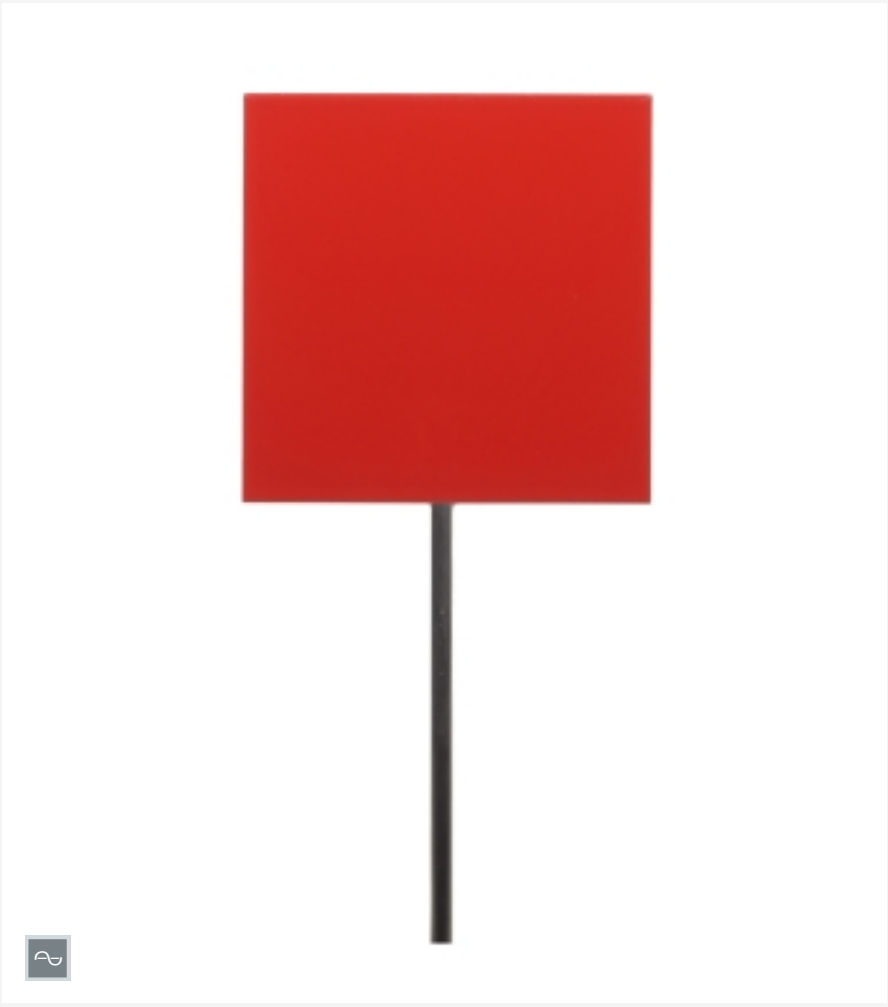
HM 170.12
Lift body square plate



Description

- **experiments on bodies immersed in a flow**
- **determination of drag coefficient and lift coefficient**

The lift body square plate is investigated in the measuring section of the wind tunnel HM 170. The lift 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 lift body is placed in the force sensor, this indicates the drag force and the lift force as a measured value in flow around bodies.

Learning objectives/experiments

- experiments on bodies immersed in a flow
- determination of the drag coefficient (c_d factor)
- determination of the lift coefficient
- together with the force sensor HM 170.40
  - ▸ determination of the moment coefficient

Specification

[1] square plate as lift 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: 100x100x1mm
- steel sheet, 1mm
- painted in RAL 3000

Bracket
- corrosion-resistant steel
- Ø 4mm

LxWxH: 100x4x360mm
Weight: approx. 0,2kg

Scope of delivery

1 lift body

HM 170.12
Lift body square plate

Required accessories

HM 170	Open wind tunnel

Optional accessories

HM 170.40	Three-component force sensor