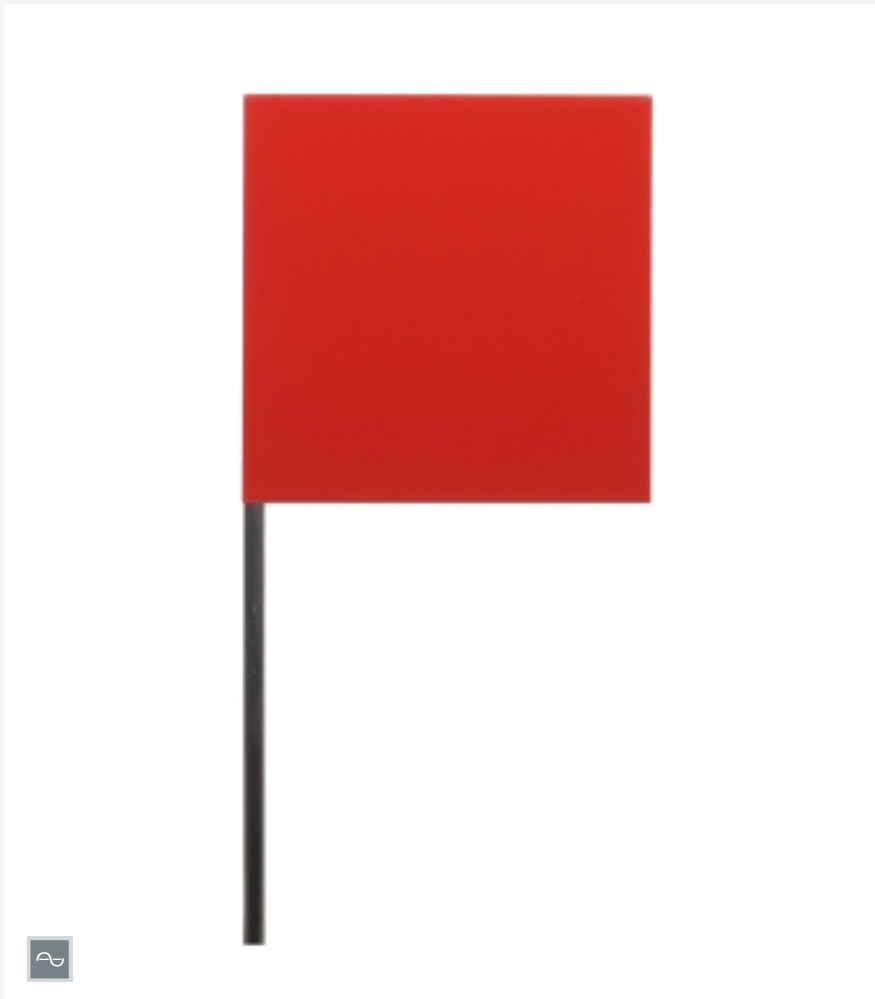


HM 170.06

Lift body flag



Description

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

The lift body flag is investigated in the measuring section of the wind tunnel HM 170. The lift body consists of a flag made of steel sheet and a mounting rod made of corrosion-resistant steel. The flag 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] flag 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] flag painted for smooth surface

Technical data

Flag

- LxWxH: 100x100x1 mm
- steel sheet, 1 mm
- painted in RAL 3000

Bracket

- corrosion-resistant steel
- \varnothing 4 mm

LxWxH: 100x4x360 mm

Weight: approx. 0,2 kg

Scope of delivery

- 1 lift body

HM 170.06

Lift body flag

Required accessories

HM 170 Open wind tunnel

Optional accessories

HM 170.40 Three-component force sensor