

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

070.17000	HM 170	Open wind tunnel
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Optional accessories

070.17040	HM 170.40	Three-component force sensor
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