

HM 170.09

Lift body aerofoil NACA 0015



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] lift body for experiments on bodies immersed in a flow
- [2] aerofoil made of plastic, profile NACA 0015, LxWxH 100x100x15mm
- [3] bracket made of corrosion-resistant steel, d=4mm
- [4] aerofoil painted in RAL 3000

Technical data

Profile: NACA 0015

LxWxH: 100x15x290mm

Weight: approx. 0,2kg

Scope of delivery

- 1 lift body

Description

■ experiments on bodies immersed in a flow

The lift body aerofoil is investigated in the measuring section of the wind tunnel HM 170. The lift body consists of an aerofoil section made of plastic and mounting bracket made of corrosion-resistant steel. The aerofoil is painted red and is fitted with guide panels at the ends. These ensure that the flow is optimally aligned with the aerofoil. 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.