HM 170.21
Aerofoil with slat and slot flap

Learning objectives/experiments

- experiments on bodies immersed in a flow
- influence of a slat
- Influence of a slot flap

Specification

[1] aerofoil with slat and slot flap for investigating the influence of control surfaces on aerofoils
[2] aerofoil with slot profile NACA 0015, LxWxH 100x100x15mm

Technical data

Profile: NACA 0015

LxWxH: 120x120x300mm
Weight: approx. 0,4kg

Scope of delivery

1 aerofoil
1 manual

Description

- **aerofoil model for investigating aerodynamic lift aids**

The aerofoil model HM 170.21 has an adjustable slat and an adjustable slot flap on the rear. On the slat it is possible to vary the separation to the leading edge of the base profile; the slot flap can be adjusted in angle and separation. The slot flap can be detached.

Together with the slat, the base profile of the aerofoil corresponds to the symmetrical profile NACA 0015. To avoid secondary flows, the aerofoil is fitted with circular covering discs.

The aerofoil is placed in the force sensor, this indicates the drag force as a measured value in flow around bodies.