

TM 110.01

Supplementary set - inclined plane and friction



Description

measurement and demonstration of spring deflection, inclined plane and mechanical friction

Supplementary set TM 110.01 extends the scope of experiments which can be performed with TM 110 with the issues: elastic deflection of a helical spring, forces on the inclined plane and friction.

The inclined plane is provided by an aluminium rail. For friction experiments, a friction body is used which has side faces prepared for different friction conditions. All parts are clearly laid out and well protected on a storage system. The storage systems are stackable, providing for space-saving storage.

Learning objectives/experiments

- elastic deflection of a helical spring (Hooke's law)
- dynamic friction as a function of the normal force, contact area and surface properties of the friction body
- \blacksquare determination of the friction coefficient
- rolling friction
- forces on the inclined plane

Specification

- [1] supplementary set for experimental unit TM 110
- [2] experiments relating to Hooke's law: friction and inclined plane
- [3] friction body which can be set up to give 3 different surface options
- [4] rail forming the inclined plane
- [5] steel helical spring
- [6] storage system to house all parts

Technical data

Helical spring

- spring constant: approx. 0,95N/cm
- max. load: 25N

Aluminium friction body

- LxWxH: 110x40x40mm
- dead-load: 5N
- 2 sides with different sized areas
- 2 sides with different surface roughnesses

Aluminium rail, anodised

■ LxWxH: 800x50x10mm

LxWxH: 160x103x75mm (storage system)

Weight: approx. 5kg

Scope of delivery

- 1 supplementary set
- 1 storage system
- 1 set of instructional material



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Required accessories

040.11000 TM 110

Fundamentals of statics

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