

# TM 110.02

## Supplementary set - pulley blocks



### Description

#### ■ setup and principle of three different pulley blocks

Supplementary set TM 110.02 extends the scope of experiments which can be performed with TM 110 with the issue comparison of different pulley blocks and their action as “simple machines”. The pulley blocks are set up on the panel of unit TM 110.

The line grid on the panel helps to readily determine the force and distance. The pulley blocks are of a robust metal design. Built-in ball and sliding bearings ensure low-friction rotation. The details of the pulley layout and the cable routing are clearly visible.

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

- setup and principle of pulley blocks with 4 pulleys and with 6 pulleys; differential pulley block
- principle of “simple machines”: force transmission, lifting work and potential energy

### Specification

- [1] supplementary set for experimental unit TM 110
- [2] pulley layout and cable routing clearly visible
- [3] pulley blocks: with 4 or 6 pulleys; differential block with roller chain
- [4] cable pulleys made of anodised aluminium ball bearing-mounted
- [5] chain wheels to DIN 8191
- [6] pullers: nylon cord, roller chain
- [7] materials stainless steel or steel, galvanised
- [8] storage system for the components

### Technical data

#### Pullers

- nylon cord:  $\varnothing=2\text{mm}$
- roller chain: 6,0x2,8mm to DIN 8187

#### Chain wheels

- number of teeth:  $z=18, 28, 38$

#### Cable pulleys

- made of anodised aluminium ball bearing-mounted

LxWxH: 604x404x132mm (storage system)

Weight: approx. 12kg

### Scope of delivery

- 1 supplementary set
- 1 storage system with foam inlay
- 1 set of instructional material

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Required accessories

040.11000

TM 110

Fundamentals of statics