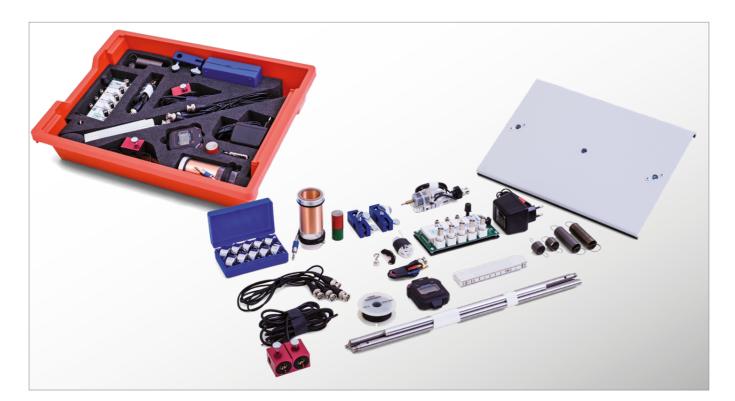
STUDENT EXPERIMENT

MECHANICAL OSCILLATIONS AND WAVES



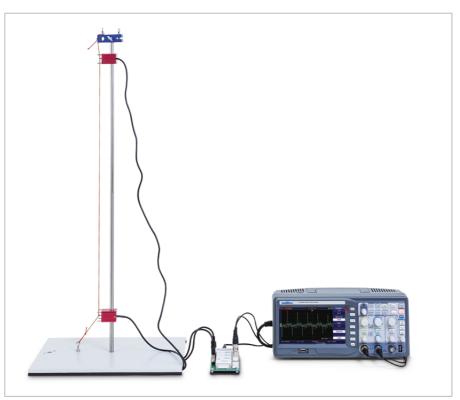
> CONTENTS:

- 1 MEC Control Unit
- 1 Plug-in Power Supply
- 2 Dynamic Force Sensors
- 1 Eccentric Axle Motor
- 1 Induction Coil
- 1 Stopwatch
- 4 Coil Springs
- 1 Set of 10 Weights, 50 g
- 1 Base Plate
- 1 Cross-strut
- 2 Stand Rods with External Threads
- 2 Stand Rods with External and Internal Threads
- 2 Double Clamps
- 1 Magnetic Hooks
- 1 Bar Magnet
- 1 Rubber Cord
- 1 Roll of Twine
- 1 Thread Eyelet1 Squirrel Cage Ring
- 1 Ruler
- 2 BNC Cable, 1 m
- 1 BNC/4-mm Cable
- > CD-ROM CONTAINING ALL DIFFERENT SETS OF INSTRUCTIONS IS INCLUDED!

Large equipment set for carrying out 23 fundamental experiments on the properties of mechanical oscillations and waves. Stored in a tough Gratnell tray with foam inlay featuring recesses moulded to the shape of the apparatus and covered by a transparent lid. Includes CD with experiment instructions.

SEK Mechanical Oscillations and Waves (230 V, 50/60 Hz) 1016652

SEK Mechanical Oscillations and Waves (115 V, 50/60 Hz) 1018476



Reflection of waves along a rope

INCLUDES INSTRUCTION FOR 23 EXPERIMENTS ON MECHANICAL OSCILLATIONS AND WAVES:

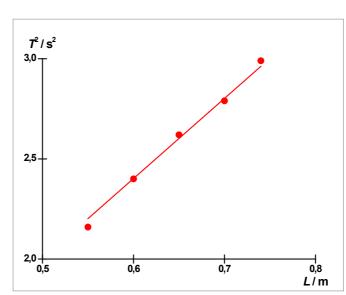
- Determining spring constants (2x)
- Oscillations of a spring pendulum *
- \bullet Oscillations of two "identical" spring pendulums $\ ^* \, / \ ^{**}$
- In-phase and 180° out-of-phase oscillations of two "identical" spring pendulums * / **
- Excitation of a motionless spring pendulum by a moving one * / **
- Superposition of the oscillations of two spring pendulums * / **
- Spring pendulums connected in line * / **
- Spring pendulums connected parallel to one another * / **
- Intrinsic oscillation of a spring pendulum *
- Types of oscillation for a coil spring pendulum *
- String pendulums (2x)
- · Seconds pendulums
- Galileo's interrupted pendulum
- · Damped oscillations of string pendulums (2x) *
- Standing waves along a rope (2x) *
- Reflection of waves along a rope *
- Speed of propagation of waves along a rope (2x) *
- Oscillation of strings *

Equipment Mechanical Oscillations and Waves: 1016652 SEK Mechanical Oscillations and Waves (230 V, 50/60 Hz)

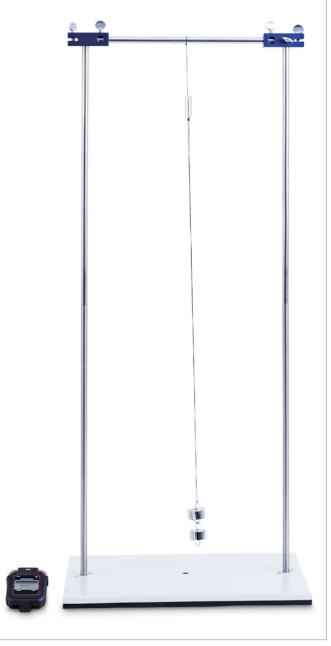
1018476 SEK Mechanical Oscillations and Waves (115 V, 50/60 Hz)

Dual-channel Oscilloscope, e.g. 1020910 Digital Oscilloscope 2x30 MHz (for experiments marked *) 1013526 Analog Multimeter ESCOLA 30 (for experiments marked **)

PLEASE ASK FOR QUANTITY DISCOUNTS ON CLASS SETS OF 8 PIECES OR MORE.



Squares of the period as a function of the length of the pendulum



String pendulum