



Cobra DigiCart Expert Set

EUR 0.00

Item no. 12940-88

Function and Applications

In addition to two Carts with integrated Sensors this set contains the track and the full equipment to perform 12 experiments with the carts. Data is transmitted wireless by Bluetooth 4. Usable with tablets in combination with the free PHYWE DigiCart APP.

Benefits

- The DigiCart is a portable and easy to use physics LAB
- Perform experiments to many topics in Dynamics:
 - Theory of Movement
 - Newtons Laws
 - Movement on inclined plane
 - Momentum/Momentum conservation
 - Elastic/Inelastic Collisions
 - Energy Conservation
 - Electromagnetic Damping
 - Oscillations and Resonance
- Learn about the fundamental physical concepts of velocity, momentum, force, acceleration and energy.
- Integrated Sensors measure:
 - Force
 - Acceleration
 - Velocity
 - Position
- Low Friction wheels for high quality measurements.

Equipment and Technical Data

- Force Measurement:
 - Range: 10 N/50 N
 - Resolution: 0,01 N/0,03 N
 - Frequency: 1000 Hz/5000 Hz
- Velocity and position Measurement:
 - Range: 3 m/s
 - Resolution (velocity): 0,001 m/s
 - Frequency: 800Hz
 - Resolution (position): 0,1 mm
- Acceleration:
 - Range: 16 g
 - Resolution: 0,01 g
- Rechargeable Li-Batterie
- Height adjustable 1,2m track
- Adjustable vibrationgenerator with Digital Display
- Electromagnetic Damping equipment
- Electromagnetic Starter
- Equipment for 12 different experiments