

## Trolley Track U35000

### Set-up instructions

10/10 ALF



#### 1. Description

The trolley track permits experiments to investigate regular movements and movements with uniform acceleration, elastic and inelastic collisions, to verify Newton's laws of motion and the conservation of energy.

The track is mounted on three adjustable point supports for setting horizontal alignment. The trolleys move with minimum friction on wheels with high-quality ball-bearings. They are fitted with magnets at their front ends for experiments involving both elastic and inelastic collisions.

#### 2. Contents

- 1 Track, 1.8 m
- 1 Trolley
- 1 Trolley with interchangeable buffer pad
- 1 Two-point support
- 1 Single point support
- 1 End stop with holders for magnets
- 2 Holders for light barrier
- 1 Holder for pulley
- 1 Pulley
- 1 Clamp for stand rods
- 1 Additional weight, 500 g
- 1 Set of contact-breakers
- 1 Set of magnets

#### 3. Technical data

Mass of trolleys:	500 g
Length of distance scale:	1000 mm
Overall length:	1800 mm

## 4. Set-up of the trolley track

### 4.1 Set-up of the supports

- Put the trolley track on its side and mount the two supports at the track as shown in the pictures.



Fig. 1 Single support with end stop



Fig. 4 Double support

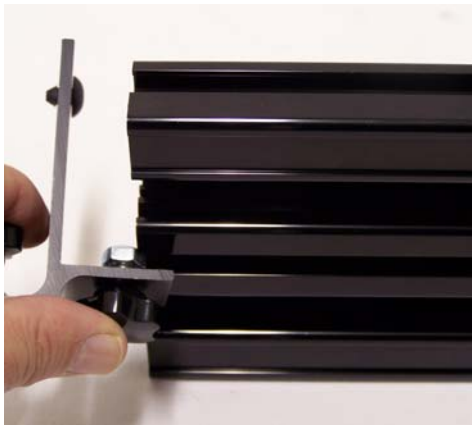


Fig. 2 Inserting the single support into the middle groove at the bottom side of the trolley track.



Fig. 5 Inserting the double support into the middle groove at the bottom side of the trolley track.



Fig. 3 Mounted single support



Fig. 6 Mounted double support

- After finishing the set-up of the supports align the trolley track horizontally.

#### 4.2. Set-up of the end stops, photogate holder and rod clamp



Fig. 7 Holder for pulley



Fig. 8 Inserting the holder for pulley into the middle groove at the bottom side of the trolley track



Fig. 9 Mounted pulley



Fig. 10 End stop with holders for magnets



Fig. 11 Inserting the end stop with holders for magnets into the groove on the upper side of the trolley track



Fig. 12 Mounted end stop with holders for magnets



Fig. 13 Holder for light barrier



Fig. 14 Inserting the holder for light barrier into the groove at the side of the trolley track

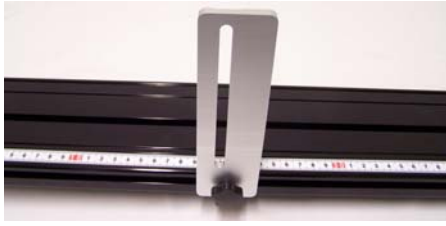


Fig. 15 Mounted holder for light barrier

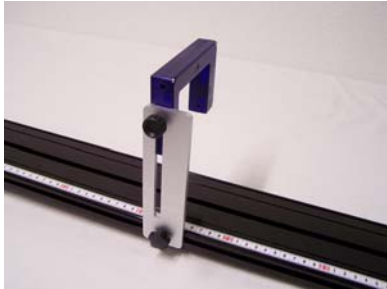


Fig. 16 Mounted light barrier



Fig. 17 Rod clamp



Fig. 18 Inserting the rod clamp into the groove at the side of the trolley track



Fig. 19 Mounted rod clamp

### 4.3 Mounting of accessories to the trolley



Fig. 20 Additional weight



Fig. 21 Inserting the additional weight into the groove on the upper side of the trolley



Fig. 22 Mounted additional weight



Fig. 23 Inserting the contact-breaker into the groove on the upper side of the trolley



Fig. 24 Mounted contact-breaker

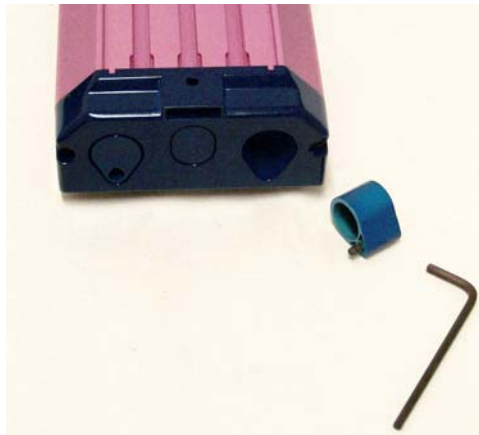


Fig. 25 Removed holder for magnets

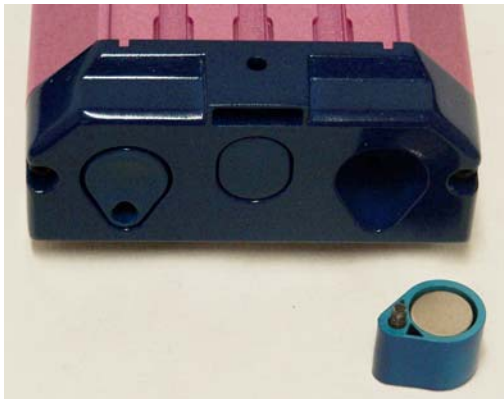


Fig. 26 Magnet inserted into holder

