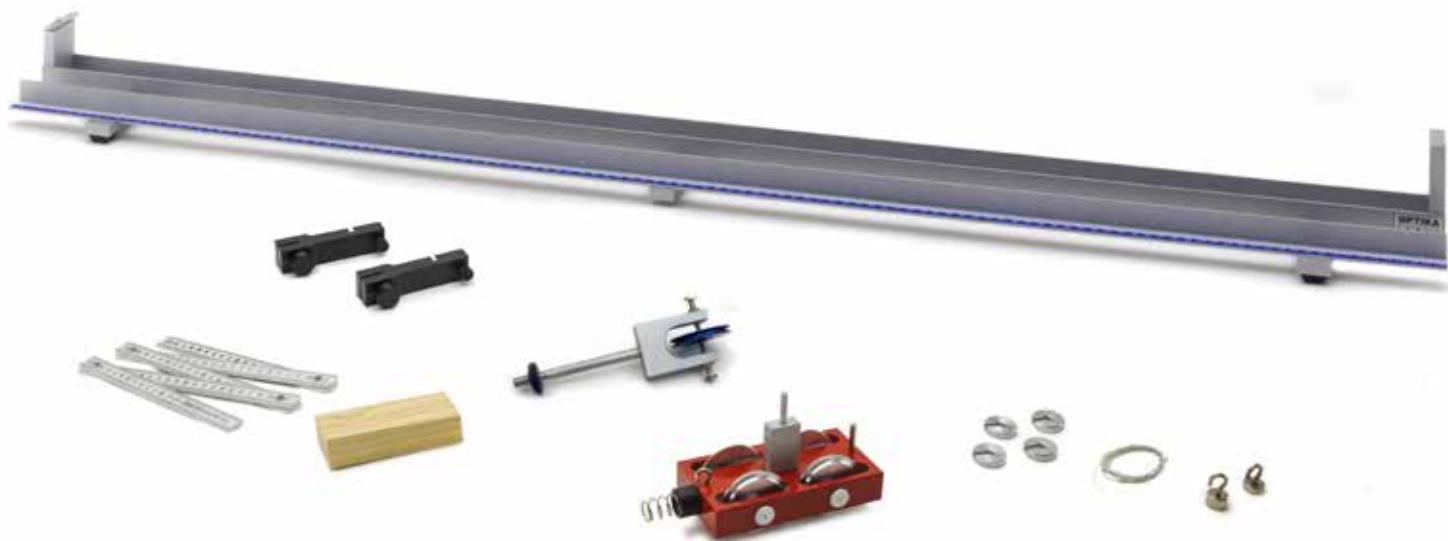




## **LOW FRICTION TRACK**

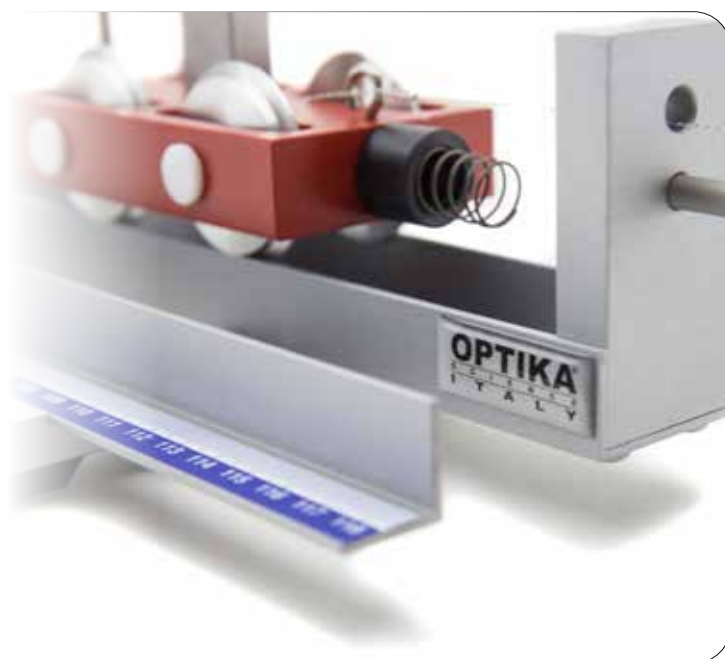
## Low friction track



Motion is subject to friction forces which can be reduced but not cancelled. Thanks to the low friction track you can carry out experiments on kinetics and translational motion.

Dimensions:

Track + pulley: 140x14 cm



**Track**

The track is 120 cm long and it is made of anodised aluminum.

**Cart**

Made of varnished aluminum.

Components:

- Low friction wheels
- Mass-holder
- Lock hook
- Spring bumper

**Mobile pulley**

Made of anodised aluminum. You can adjust the pulley position using two precision bolts.

**Photocell holders**

These holders can be customized to mount your own photocells.

**Optional timer system**

2 Photocells.

1 Timer.

Timer description:

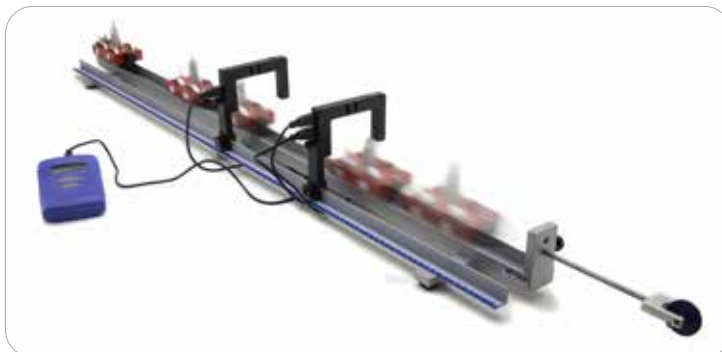
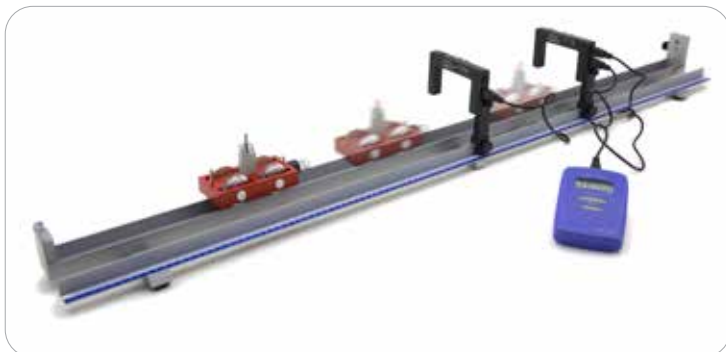
- Readability: 0.001 s
- 9 V battery included
- 2 modes:
  - to measure darkening time;
  - to measure elapsed time between the darkening of the first photocell and the second one.

**9081 Optional timer system****PRACTICABLE EXPERIMENTS**

Some experiments that can be carried out:

- Motion
- Motion is relative
- Reference systems
- Physical quantities defining motion
- Trajectory
- The instruments for the experimental study of motion
- Average speed
- Instantaneous speed

- Average acceleration
- Instantaneous acceleration
- Different types of motion
- Uniform rectilinear motion
- Uniformly accelerated rectilinear motion
- The principle of inertia
- The fundamental law of dynamics
- Frictional force



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