

1



## 1. Optika Electrical Rotating Platform

Optika rotating platform allows students not only to verify the relations between the fundamental quantities which characterise rotational motion, but also to perform experiments on an important topic: inertial and non-inertial systems. Includes string, ruler, wooden sphere with hole, wooden sphere with hook and chuck. In this way students are allowed to understand which is the origin and which are the results of fictitious forces as the centrifugal force and Coriolis force.

Experiments include:

- Centripetal force
- Lack of centripetal force: what happens?
- Centrifugal forces in equilibrium
- How to use centrifugal force to separate a mixture
- How to use centrifugal force to dry linen
- Centrifugal force and Earth shape
- Watt's regulator
- White light: Newton's disk
- Conical pendulum
- Properties of conical pendulum
- How to verify centripetal and centrifugal forces formula
- Another fictitious force: Coriolis force
- Coriolis force acting on a water jet
- Coriolis force acting on a pendulum
- Observer in a non-inertial system
- When Coriolis force is zero
- Foucault's pendulum

Code	Pack	Price
EDU2126	Each	£972.92

2



## 2. Ticker Tape Timer

This 2 speed ticker tape timer is a modern version of the tried and tested method of measuring velocity and acceleration. A vibrating striker prints dots on the tape using carbon discs. The rate can be adjusted to 25 or 40 dots per second. The unit is housed in a durable, scratch proof, shock absorbing plastic case, which has a single plastic plate for clamping to a bench or fixing to a dynamics track. It has a unique method of adjusting the position of the carbon disc.

- Includes: 100 carbon discs and one 50m roll of tape
- **Operates on 12 volt DC supply (not included)**

Code	Description	Pack	Price
EDU035N	Ticker tape timer only, 12V	Each	£21.74
PH0353D	Ticker tape holder	Each	£42.33
EDU036N	Ticker tape timer roll, 15mm wide	5	£11.46
EDU037	Ticker tape carbon disk	100	£2.75

3



## 3. Ticker Tape Timer Set

This ticker tape timer is housed in a tough moulded plastic case. The timer operates on 12 volt AC supply and produces 50 - 60 dots per second depending on the main frequency. The case has a tape guide and a carbon disc plug which can be moved to maximize the use of the discs. It is supplied with one roll of 50 meter paper tape and a box of 100 carbon discs. The unit also has a 1.25" mounting bracket attached to the bottom. Terminals are 4mm and you will need to connect a 12V AC power supply to the input sockets to power.

- Comes with roll of 5/8" carbon paper
- Unit measures 4.5 x 3 x 1.5"
- Instructions included
- **Operates on 12 volt AC power supply (not included)**
- Must not use on DC

Code	Pack	Price
PH0353A	Each	£27.88