

ESF

Engineering Science Full Set

A mobile trolley with a complete set of TecQuipment's Engineering Science kits and Work Panels



- A mobile and compact trolley holding a full set of TecQuipment's Engineering Science kits (ES2 to ES19) and three Work Panels (ES1) for over 60 experiments in fundamental engineering science topics
- All the parts needed in one mobile frame – one person can move a full set of kits from one room to another
- Includes a Spares Kit (ESX) to replace common parts that could become lost from experiments during use
- Spare empty trays to store additional material such as coursework, worksheets or guidance notes
- Strong, lockable wheels on the trolley allow easy movement but also hold the trolley stable when needed – making it an ideal demonstration table
- Flat top with fixing positions for storage of the work panels

- TecQuipment Ltd, Bonsall Street, Long Eaton, Nottingham NG10 2AN, UK
- **T** +44 115 972 2611 • **F** +44 115 973 1520 • **E** info@tecquipment.com • **W** www.tecquipment.com
- An ISO 9001 certified company

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Description

A complete package in Engineering Science experiments. The full set includes the Engineering Science mobile trolley (EST), a full set of TecQuipment's Engineering Science kits (ES2 to ES19), Work Panels (ES1) and a Spares Kit (ESX).

Refer to the separate datasheets for more details on these individual products.

This Full Set (ESF) allows at least three sets of students to work with any three of the Engineering Science experiments at the same time, while storing the other kits tidily and efficiently.

Alternatively, lecturers or teachers may set up one experiment as a demonstration on the mobile trolley while two groups of students do experiments at their desks.

TecQuipment supply a Spares Kit (ESX) with the package to help replace the common smaller parts of the kits that may get lost over time. The trolley also includes some empty trays, useful for storing coursework, worksheets or guidance notes.

Standard Features

- Five-year warranty
- Manufactured in accordance with the latest European Union directives



Experiment Kits

- Forces Kit (ES2)
- Moments Kit (ES3)
- Deflection of Beams Kit (ES4)
- Torsion of Circular Sections Kit (ES5)
- Tensile Tester Kit (ES6)
- Simple Harmonic Motion Kit (ES7)
- Friction and Inclined Plane Kit (ES8)
- Potential and Kinetic Energy Kit (ES9)
- Pulley Kit (ES10)
- Drive Systems Kit (ES11)
- Cam, Crank and Toggle Kit (ES12)
- Gear Trains Kit (ES13)
- Simple Mechanisms Kit (ES14)
- Bar Linkages Kit (ES15)
- Centrifugal Force Kit (ES16)
- Rotational Friction Kit (ES17)
- Additional Mechanisms Kit (ES18)
- Spring Tester Kit (ES19)

Refer to separate datasheets for full details.

Operating Conditions

For use in:

Well lit classroom or laboratory

Storage temperature range:

-25°C to +55°C (when packed for transport)

Operating temperature range:

+5°C to +40°C

Operating relative humidity range:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

Specifications

Trolley:

900 mm high x 1080 mm wide x 460 mm front to back

Nett weight:

108 kg full trolley + 3 x 5.1 kg Work Panels = 123.3 kg

Packed volume and weight:

Approximately 0.7 m³ and 175 kg

Main parts:

- Mobile trolley (EST) x 1
- Work Panels (ES1) x 3
- Engineering Science kits x 18 (ES2 to ES19)
- Spares Kit (ESX) x 1
- Empty trays x 5