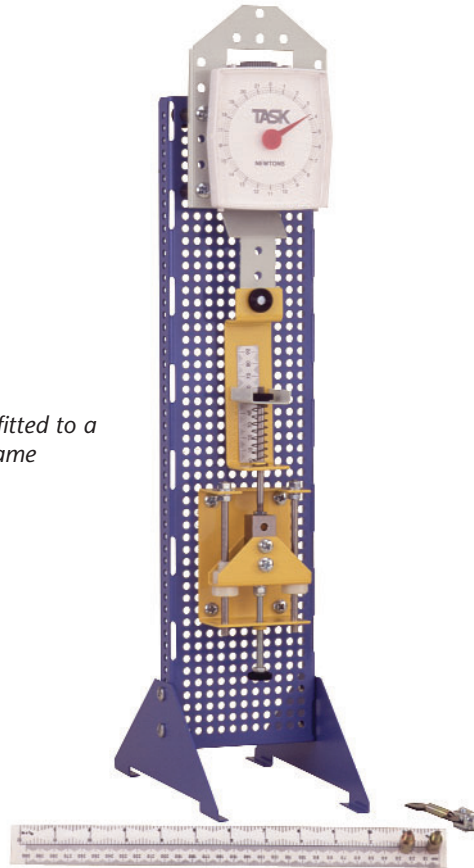


Shows students how to do compression and extension tests on springs

Shown fitted to a TASK frame



- Ideal for classroom demonstrations and for use by small groups of students
- Fits onto one of the optional TASK Frames and shows students how to do compression and extension tests on springs
- Tests and includes a compression spring and a tension spring
- Colour-coded parts to help students understand what each part does
- Supports all teaching levels up to and including first year university courses
- Hands-on equipment - easy-to-assemble parts allow students to build the experiments for improved understanding of the experiment

- **TecEquipment** products are designed and manufactured by TQ Education and Training Ltd
- TQ Education and Training Ltd, Bonsall Street, Long Eaton, Nottingham NG10 2AN, UK
- **T** +44 115 972 2611 • **F** +44 115 973 1520 • **E** info@tq.com • **W** www.tq.com
- TQ is an ISO 9001 certified company

Description

A kit that builds into a machine to stretch or compress test springs, while measuring load and displacement.

Students assemble the spring tester on a mesh frame (frames available separately). The kit includes a spring for tensile tests and a different spring for compression tests. Students apply a compressive or tensile force to the springs by turning an adjustment screw. A load cell (available separately) shows the force applied to the spring. By moving freely with the load cell, scales behind the spring directly measure the spring extension or compression.

Students work individually or in groups of up to three. The colour of parts indicates their function. For example, yellow parts are mainly stationary or passive, and white parts are instrumentation. Red parts may move or contain energy.

The kit comes with Assembly Instructions. A Teacher Guide provides experiment methods, information, references and tips. A Student Workbook guides students through experiments.

Standard Features

- Supplied with comprehensive User Guides (Assembly Instructions, Student Workbook and Teacher Guide)
- Two-year warranty
- Manufactured in accordance with the latest European Union directives

Essential Ancillaries

- Mini Frame (MF)
- Load Cell (LC)

Experiments

- The properties of a compression spring
- The properties of a tension spring
- Proof of Hooke's Law
- Introduction to spring rate
- Introduction to spring pretension

Operating Conditions

Operating environment:
Laboratory environment

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

Packed Dimensions and Weight: 0.007 m³ and 1.1 kg

Springs:

- Compression spring
- Tension spring

Main Parts:

- Spring cradle, slider, slider support, guide bars
- Chuck and hook plates
- Scale and modified rule, scale sight, scale rod
- All necessary nuts and bolts, spacers, pillars, knoblets, clevis

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