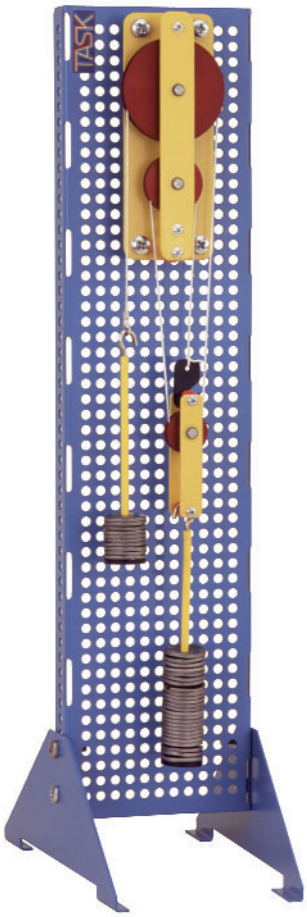
MM6

TASK Compound Pulley Kit

Students build and study pulley systems of different ratios



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 velocity ratio and mechanical advantage in pulley systems
- Includes several pulley wheels for different ratios
- 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

- **TecQuipment** 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

TecQuipment

MM6 TASK Compound Pulley Kit

Description

Students build single, two and three-pulley systems (a simple lifting machine) from a kit.

The kit consists of a pulley block containing two different sized pulleys. Students attach the pulley block to a mesh frame (frames available separately). The kit also includes a single jockey pulley for the three-pulley system.

To perform experiments, students use a cord to link the pulleys in their chosen combination. They load the system at one end with a known weight. They then add other weights until the load lifts steadily without stopping. They then repeat the experiment with an increased load, or different pulley configuration.

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)
- Weight Set (WT)

Experiments

- Simple and compound pulley investigations
- Pulley ratio investigation
- Pulley system mechanical advantage
- Pulley system efficiency

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: 0.0036 m^3 and 0.55 kg

Main Parts:

- Pulleys: anodised aluminium in self-aligning bearings, three sizes
- Pulley block and plates
- Fixing rings, pillars and cord assembly
- Cords and pulleys
- All necessary nuts, bolts, washers, spacers and fixings