Order Code - 32208
Three Dimensional Equilibrium Apparatus

Features

- Ideal for student use and classroom demonstrations
- Self-contained – needs no other parts
- Made for maximum flexibility and ease of use for extensive range of experiments
- Simply supported and tests with up to four supports with any loading
- Weights and hangers supplied to apply point loads

Tesca Three Dimensional Equilibrium Apparatus is used for studying the equilibrium of five concurrent and non-concurrent forces in a three dimensional system. A rigid box frame has four swiveling pulleys at the top corners and leveling screws at the legs. Four cords, each with a load hanger outside the frame, pass over the pulleys and meet inside the frame concurrently or non-concurrently with an additional cord between two joints. A vertical load with a cord is applied at one of the joints. Each cord is marked out a 100 mm length. Two mirrors are attached on two adjacent side walls and transparent plates with transparent graph grids are attached on the other two side walls. By aligning each marked cord to the mirror, its coordinates in space can be measured.

Specifications

- Frame size: minimum 600 mm wide x 600 mm long x 800 mm high.
- Mirror and clear acrylic sheet size: approx. 580 mm x 525 mm.
- Load hanger and cords: minimum 6 units.
- Two Ring Cords: 1 each
- Weight Sets: 10 nos. x 5N
- 15 nos. x 1N.

Experiments

- Study of equilibrium of five concurrent and non concurrent forces in a three dimensional system

Note: Specifications are subject to change.

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