



**Product Code . JL-ELA-5520**

## Three Wire Suspension Apparatus

### Description

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Three Wire Suspension Apparatus

#### Features

Low cost, effective teaching.

Self-contained.

Bench mounted.

Direct measurement of horizontal reaction.

Angle of toggle variable.

Demonstrates application of velocity diagrams.

#### Range of Experiments

To study the vertical equilibrium of a two and three wire suspension system.

To examine the action of the central vertical redundant force.

#### Description:-

A free standing backboard provides supports for three tensile suspenders that meet at a ring carrying a load hanger.

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Spring balances measure the tension in each of the suspenders which are at about 30 and 45 degrees to the central vertical one.

The lengths of each suspender can be adjusted by a threaded rod attached to the spring balance.

This equipment is part of a range designed to both demonstrate and experimentally confirm basic engineering principles.

Great care has been given to each item so as to provide wide experimental scope without unduly complicating or compromising the design.

Each piece of apparatus is self-contained and compact.

Setting up time is minimal, and all measurements are made with the simplest possible instrumentation, so that the student involvement is purely with the engineering principles being taught.

A complete instruction manual is provided describing the apparatus, its application, experimental procedure and typical test results.

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