SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Equilibrium of Forces | FortiTestX - 50

Category: Strength of Materials · **Country of Origin:** India

Product Overview

The Equilibrium of Forces FortiTestX - 50 is a kit for the Work Panel for experiments with three or more coplanar forces at equilibrium. This equilibrium of forces kit introduces Bow's notation and supports up to five forces at any angles using cords, pulleys, magnetic mounts, protractors, weights and a spring balance. Net weight is 3.7 kg plus 1 kg storage tray. A five-year warranty and fully illustrated user guide are included.

View this product online: https://scienticoindia.com/product/equilibrium-of-forces-fortitestx-50/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Equilibrium of Forces FortiTestX - 50: Technical Specifications

Parameter	Value
Essential Base Unit	Statics Work Panel (FortiTextX 53)
Use Environment	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
Essential Services	Strong, level bench or desktop, at least 1100 mm wide x 540 mm front to back (for the FortiTextX 53)
Net Weight	3.7 kg + 1 kg storage tray
Packed Volume and Weight	Approximately 0.015 m3 and 6 kg
Warranty	Five-year
Certification	ISO9001 certified manufacturer
Compliance	Manufactured in accordance with the latest European Union directives

Key Features

Key Features

- **Series:** one of a series of kits for experiments in statics fundamentals topics

- **Compatibility:** fits to the Work Panel for a complete range of experiments
- **Learning Style:** hands-on approach for improved understanding
- **Build:** highly visual and robust, ideal for classroom demonstrations and small groups
- **Positioning:** magnetic bases allow accurate and easy positioning of the equilibrium of forces kit's parts
- **Storage:** supplied in a hard-wearing storage tray
- **Documentation:** includes a fully illustrated user guide
- **Warranty:** five-year
- **Certification:** ISO9001 certified manufacturer

Learning Outcomes

- Concurrent and non-concurrent coplanar forces
- An introduction to Bow's notation and graphical analysis
- Force triangles, polygons and link polygons

Construction and Design

The Equilibrium of Forces FortiTestX - 50 fits to the Work Panel. Magnetic parts of the kit mount to the panel for the experiments. Cords, rings, magnetic mounts, magnetic protractors, pulleys, weights and a spring balance are used to apply forces.

Up to five forces can be set at any angles. Forces can be applied to a single point for concurrent setups, or to two points for non-concurrent setups. Magnetic bases allow accurate and easy positioning of the equilibrium of forces kit's parts.

The kit is supplied in a hard-wearing storage tray. A fully illustrated user guide is included, containing theory, experiments and typical results.

Scope of Delivery

- Magnetic protractors
- Magnetic pulleys
- Spring balances
- Cords with rings
- Magnetic hook points
- Lightweight hooks
- Weight hangers and weights
- Hard-wearing storage tray
- Fully illustrated user guide

Required for Operation

- Statics Work Panel
- A strong, level bench or desktop of at least 1100 mm wide x 540 mm front to back

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1. What does the Equilibrium of Forces FortiTestX - 50 kit allow students to study?
It allows study of three or more coplanar forces at equilibrium, including concurrent and non-concurrent force setups.

Q2. What does the kit introduce?
The kit introduces Bow's notation and the drawing method of finding forces.

Q3. How many forces can be set up with this kit?
Up to five forces can be set at any angles.

Q4. What is required to use this equilibrium of forces kit?
The Statics Work Panel is required, along with a strong, level bench or desktop at least 1100 mm wide x 540 mm front to back.

Q5. What is the warranty and certification on this kit?
A five-year warranty is provided. The manufacturer is ISO9001 certified and complies with the latest European Union directives.

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