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PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Bifilar and Trifilar Apparatus | Vibrano X - 05

Category: Vibration Technology Lab Equipment · **Country of Origin:** India

Product Overview

The Bifilar and Trifilar Apparatus - Vibrano X - 05 studies oscillations on pendulums with bifilar and trifilar suspension. It uses a rectangle bar, disk cylinder, and hollow disk cylinder, all made of stainless steel, suspended from a wall mounted plate. This Bifilar and Trifilar Apparatus features quick-action clamping for suspension cords up to 2000mm in length. The beam functions as a mathematical pendulum, while the cylinder and ring work as rotary pendulums.

View this product online: https://scienticoindia.com/product/bifilar-and-trifilar-apparatus-vibrano-x-05/



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

Technical Specifications

Bifilar and Trifilar Apparatus - Vibrano X - 05, Technical Specifications

Specification	Detail
Application	Rotary and pendulum oscillation experiments with 3 different bodies on bifilar / trifilar pendulums
Suspension Clamp	Quick-action clamp for the suspension cords
Bar Material	Stainless Steel
Disk Cylinder Material	Stainless Steel
Hollow Disk Cylinder Material	Stainless Steel
Suspension Cord Length	Up to 2000mm possible

Technical Data

Disk Cylinder

Parameter	Value
D x h	160 x 19mm
Mass	3kg

Hollow Disk Cylinder

Parameter	Value
Outer diameter	160mm
Inner diameter	100mm
Height	41mm
Mass	4kg

Key Features

Key Features

- **Core Function:** this Bifilar and Trifilar Apparatus studies oscillations on pendulums with bifilar and trifilar suspension
- **Test Bodies:** rectangle bar, disk cylinder, hollow disk cylinder, all made of stainless steel
- **Attachment:** strong steel hooks on bodies for suspension cord connection
- **Cord Adjustment:** quick-action clamping screws for rapid length change
- **Suspension Cord Length:** up to 2000mm possible
- **Oscillation Modes:** beam oscillates by translation like an ideal mathematical pendulum; cylinder and ring act as rotary pendulums
- **Mounting:** wall mounted plate
- **Disk Cylinder:** D x h 160 x 19mm, mass 3kg
- **Hollow Disk Cylinder:** outer diameter 160mm, inner diameter 100mm, height 41mm, mass 4kg
- **Experiment Range:** 3 different bodies on bifilar / trifilar pendulums

Experiments

- Oscillation experiments on a mathematical pendulum
- Determination of the center of inertia of a beam, a disk cylinder, and a hollow disk cylinder in a rotary pendulum experiment

Construction and Design

The Bifilar and Trifilar Apparatus - Vibrano X - 05 is built around a wall mounted plate from which test bodies are suspended. The bodies, a rectangle bar, a disk cylinder, and a hollow disk cylinder, are all made of stainless steel. Each body has strong steel hooks for attachment to the suspension cords. The suspension cords can be rapidly changed in length and securely fixed using clamping screws. The beam oscillates by translation in the plane of suspension, functioning like an ideal mathematical pendulum. The cylinder and the circular ring function as rotary pendulums. This Bifilar and Trifilar Apparatus supports suspension cord lengths of up to 2000mm.

Scope of Delivery

- 1 Experimental module
- 1 Bar pendulum
- 1 Disc pendulum
- 1 Ring pendulum
- 1 Thread
- 1 Measuring scale
- 1 Stopwatch
- 1 Instruction manual

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

Q: What does the Bifilar and Trifilar Apparatus - Vibrano X - 05 study?
A: It studies oscillations on pendulums with bifilar and trifilar suspension, using a bar, disk cylinder, and hollow disk cylinder.

Q: What material are the test bodies made of?
A: The rectangle bar, disk cylinder, and hollow disk cylinder are all made of stainless steel.

Q: What is the maximum suspension cord length?
A: Suspension cord length of up to 2000mm is possible.

Q: How do the different bodies oscillate?
A: The beam oscillates by translation like an ideal mathematical pendulum, while the cylinder and circular ring work as rotary pendulums.

Q: What is included in the scope of delivery?
A: The delivery includes 1 experimental module, 1 bar pendulum, 1 disc pendulum, 1 ring pendulum, 1 thread, 1 measuring scale, 1 stopwatch, and 1 instruction manual.

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