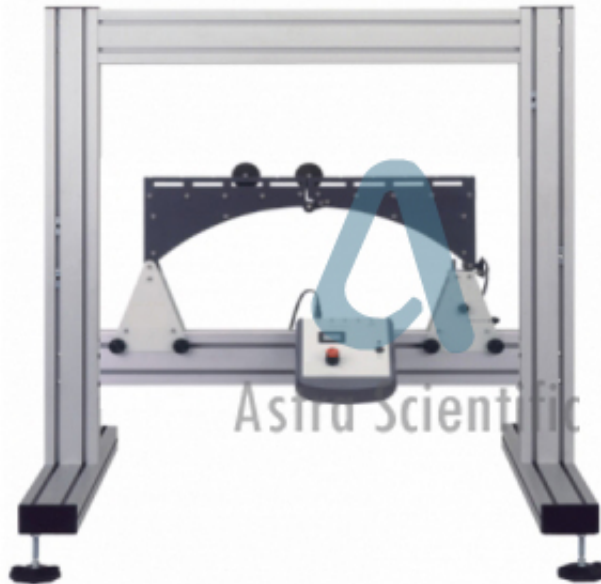


Product Name :

Astra Scientific Three Hinged Arch Apparatus with Data Acquisition

Product Code :

ASTSTRUCTURAL-0012

**Description :**

Astra Scientific Three Hinged Arch Apparatus with Data Acquisition

Technical Specification :**Description:**

An experimental apparatus to investigate the important features of a three-pinned arch.

The experiment hardware fitted a Structures Test Frame). Students apply various loads at set positions along the top of a simple 'determinate' three-pinned arched structure. They can also apply a uniformly distributed load.

The structure has a pivot at one end and at the crown. The arch rolls against a load cell at the opposite end. The load cell connects to a Digital Force Display to measure and display the thrust reaction. The equipment includes a lead to connect the load cell to a Digital Force Display.

The Operation Manual provides details of the equipment including sample experiment results. The Operation Manual describes how to use the equipment and gives experiment procedures.

For extra 'virtual' experiments, supply the optional Structures Software, for use on a suitable computer. The virtual experiments simulate the tests you can perform with the hardware.

They also extend the choice of tests beyond that available using only the hardware, for example: higher loads, uniform loads or different test specimens. This extends the student's learning experience.

For automatic data acquisition of your experiment results, supply the optional Automatic Data Acquisition Unit. Supplied as standard with the Structures Software that displays and logs your experiment results and gives the extra virtual experiments.

Key features:

- High-quality structures training module for students of mechanical, civil and structural engineering
- Allows safe and practical experiments into three-pinned arches
- Realistic and verifiable experiment results
- Optional Structures Software package for extra 'virtual' experiments that simulate and confirm the results from your hardware and allow extended experiments
- Optional unit with Structures Software package for automatic data acquisition and virtual experiments.

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