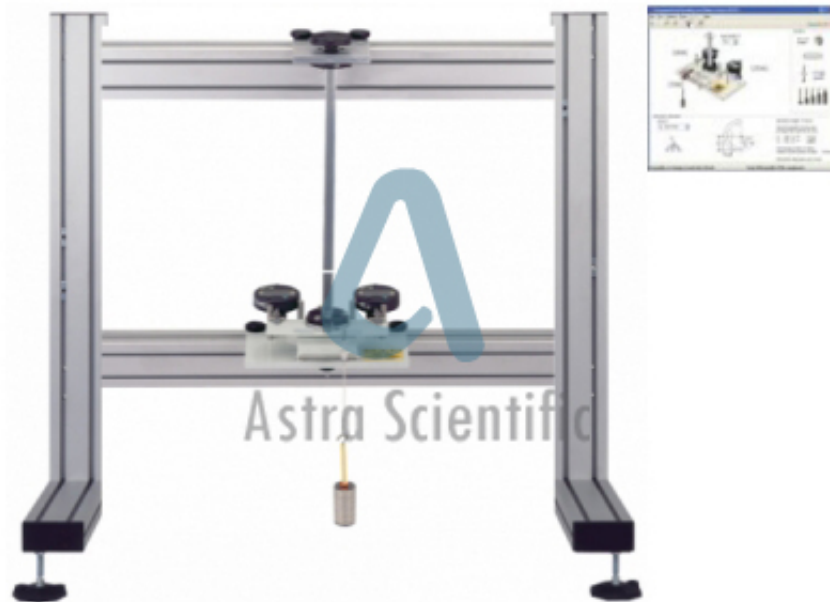


**Product Name :**  
Astra Scientific Unsymmetrical Bending Apparatus with Data Acquisition

**Product Code :**  
ASTSTRUCTURAL-0014



**Description :**

Astra Scientific Unsymmetrical Bending Apparatus with Data Acquisition

**Technical Specification :**

**Description:**

An experimental apparatus to investigate deflection and stability within a structure in relation to beams with unsymmetrical sections.

The experiment hardware fitted a Structures Test Frame. It examines the vertical and horizontal deflection of different asymmetrical sections at various angles and loads.

Two multi-way chucks hold a test specimen vertically. One chuck has an indexing system for rotating the beam in set increments. This changes the angle of loading. The other chuck and a weight hanger apply a variable load. Two digital deflection indicators measure deflection in the x and y directions. An interchangeable plate allows students to find the shear center of the specimen.

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 unsymmetrical bending and shear center
- Realistic and verifiable experiments 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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## **Astra Scientific**

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