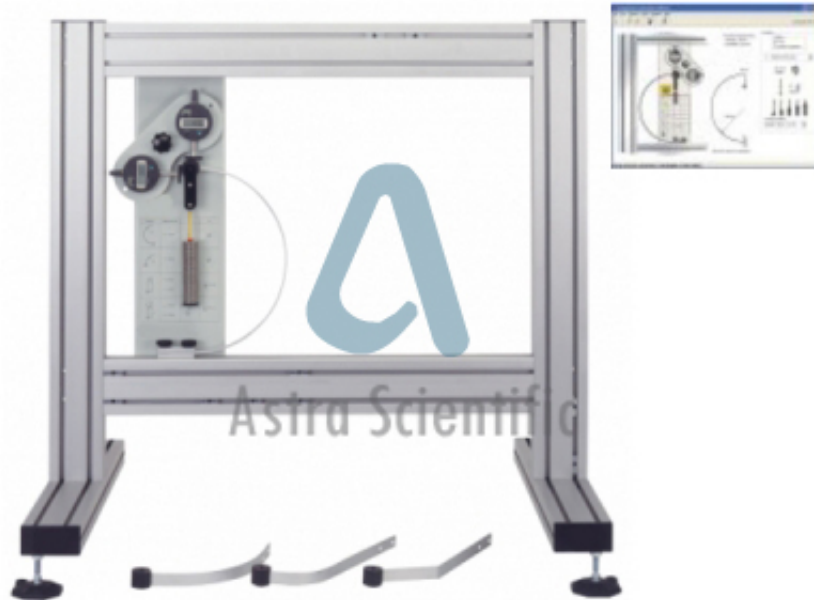


Product Name :
Curved Bar Apparatus with Data Acquisition

Product Code :
ASTSTRUCTURAL-0003



Description :

Curved Bar Apparatus with Data Acquisition

Technical Specification :

Description:

An experimental apparatus to investigate the relationships between load horizontal deflection vertical deflection and stability in commonly used curved structures and davits and to compare the results with theoretical values.

The experiment hardware fitted a Structures Test Frame. Included are four different structures. Attach one of the structures in front of the hardware module, directly onto the test frame. They then apply loads to the structure using masses on hangers. Two digital deflection indicators, set at 90 degrees to each other on the backboard, contact the structure and so measure horizontal and vertical deflection. The digital deflection indicators are on a magnetic base so students can move them to anywhere on the backboard.

Load a structure they note the horizontal and vertical deflections, thus investigating the structure behavior. They then compare this behavior with theoretical predictions.

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 learning experience.

For automatic data acquisition of your experiment results, supply the optional Automatic Data Acquisition Unit. Supplied as standard 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 curved bars and davits
- 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 Structures Software package for automatic data acquisition and virtual experiments
- One of many interchangeable experiment modules, flexible and cost effective structures teaching system



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