

STRUCTURAL MODELS

Equipment for experiments on STRUCTURES consists of two main parts, accessories for specific experiment and a frame for attachment of the accessories. Many accessories common for various experiment.

ST 311 BENDING MOMENT



Photograph includes optional equipment

GENERAL DESCRIPTION:

This equipment is used for measurement of bending moment on a section of a beam from which comparison with theoretical values can be made. It is to be used with ST305 Universal Base Frame or ST300 Universal Structural Frame (separately supplied).

The beam has two parts with a ball bearing hinge at the joint. An underhung spring balance holds the hinge in compression, hence resists bending moment. The beam rests on two round supports. Load hangers and weights slide along the beam.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Visual demonstration of the Shear Force and Bending Moment at a cut section in a beam
- Variation in bending moment for variations in load, load position and load arrangement
- Comparison of experimental results with theoretical values and bending moment diagrams

TECHNICAL DATA:

- Beam length : 700 mm
- ST111 Round Supports : 2
- Spring balance : 1
- Load hangers : 3
- Weights : 1 lot
- Software for data display and analysis by computer (separately supplied).

OPTIONAL EQUIPMENT:

- ST311-055 Computer assist Load cell and ST150 Force Indicator with digital output instead of spring balance.
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unassembled) Shipping Dimensions WxLxH : 25 x 85 x 15 cm
Net Weight : Approx. 6 kg