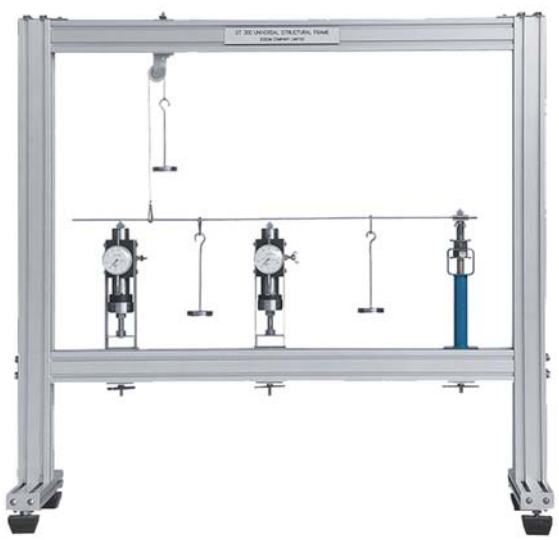
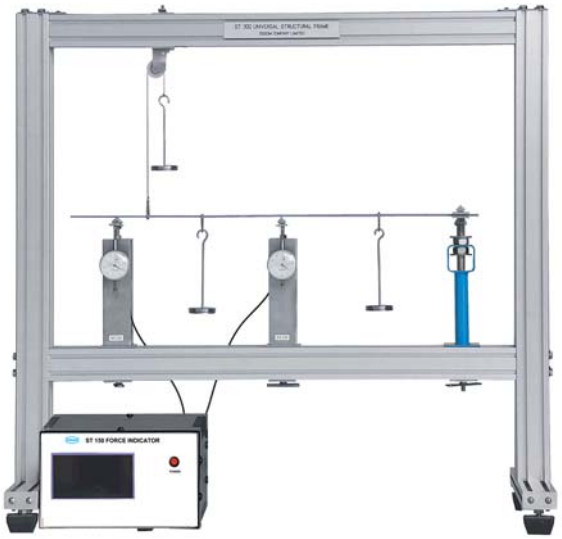
STRUCTURAL MODELS

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 321 CONTINUOUS BEAM





Photograph includes optional equipment

GENERAL DESCRIPTION:

The equipment is used for measurement of the reactions of a two-span continuous beam with and without settlement of a support. It is to be used with ST300 Universal Structural Frame (separately supplied).

The equipment consists of a two-span continuous beam supported by two vertical force supports and a built-in/knife edge support. The settlement of each load measuring support is measured by a dial indicator and can be simulated by height compensation mechanism. Three movable load hangers with a set of weights for downward as well as upward loading are provided. Each beam deflection is measured by a dial indicator.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Principle of moments.
- Reactions for a point load along a simply supported beam.
- Reactions for a continuous beam.
- Deflection of a simply supported beam.

TECHNICAL DATA:

- Test beam
  - Steel : 2
  - Aluminum : 1
  - Brass : 1
- ST 113 Built-in/Knife Edge Support : 1
- ST 124 Vertical Force Supports : 2
- Pulley set : 1
- Cord : 1
- Load hangers : 3
- Weights : 1 lot
- ST131 Dial Indicators : 2
- Software for data display and analysis by computer (separately supplied).

OPTIONAL EQUIPMENT:

- ST321-055 Computer assist
  ST 125 Vertical Force Load Cell and ST150 Force Indicator with digital output instead of ST124 Vertical Force Supports.
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unassembled) Shipping Dimensions WxLxH : 50 x 75 x 20 cm
Net Weight : Approx. 10 kg