

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 313 INFLUENCE LINE APPARATUS



GENERAL DESCRIPTION:

The equipment is used for studying the reactions under various conditions of load at all supports along a three-span bridge. It is to be used with ST300 Universal Structural Frame (separately supplied).

The bridge has a cantilever end sections and a suspended center section. The location of the supports is adjustable. The supports are vertical force supports for measurement of loads. The deflection of the bridge can be measured by dial indicators.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Influence lines for supports and internal reactions due to a load moving across the beam structure.
- The effect of loads to bridge support reactions and internal reactions between the cantilever and suspended sections.

TECHNICAL DATA:

- Bridge: End span length : 2 ea. 250 mm
Center span length : 150 mm
- ST 124 Vertical Force Supports : 4
- Rolling loads : 2
- ST131 Dial Indicators : 2
- Software for data display and analysis by computer (separately supplied).

OPTIONAL EQUIPMENT:

- ST313-055 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 : 35 x 80 x 15 cm
Net Weight : Approx. 15 kg