

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 315 SHEAR CENTER



GENERAL DESCRIPTION:

The equipment is used for studying the plane of traverse loading without twisting for selected standard sections. It is to be used with ST300 Universal Structural Frame (separately supplied).

Interchangeable beam specimens are made from 1.2 mm steel sheet or approximate equal with welded-on end plates and a central loading plate which has a provision at the bottom for loading at different eccentricities from the beam axis. The end plates are attached to two flanged supports. A load is hung at the bottom of the central loading plate and two dial indicators are used to measure deflections of both ends of the plate. The plane of zero twist is the plane of shear center.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Shear force variation with an increasing point load
- Variation of shear force for various loading conditions
- Examination of various other loading cases and their effect on shear force

TECHNICAL DATA:

- Beam length : 700 mm
- Beam section
 - Channel : 1
 - Semicircle : 1
 - Angle : 1
 - "Z" : 1
- Load hanger : 1
- Weights : 1 lot
- ST131 Dial Indicators : 2
- Software for data display and analysis by computer (separately supplied).

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