

STRUCTURAL MODELS

Equipment for experiments on STRUCTURES consists of two main parts, accessories for specific experiment and ST300 Universal Structural Frame or ST305 Universal Base Frame for attachment of the accessories. Many accessories common for various experiment.

ST 326 VIRTUAL WORK

DESCRIPTION :

The equipment is used for applying the principle of virtual work to the derivation of redundant reactions. It is to be used with ST300 Universal Structural Frame (separately supplied)

An elastic beam is supported at both ends by moment supports. Both supports permit the application and measurement of moments and rotations. A third support, vertical force support, is used for the case of two span continuous beam. A clamp on moment application device with a mean to counter balance the device weight is provided to apply a pure moment and measure rotation. The beam is loaded by weights. The deflection and slope of the beam can be measured by dial indicators.



TECHNICAL DATA :

- Test beam : High tensile steel 19 x 3 (approx) x 700 mm.
- Supports : 2 ea ST 115 Moment Support.
: 1 ea ST 124 Vertical Force Support.
- Moment application device : 0-3 Nm.
- Pulley set for upward loading : 1 ea.
- Load hangers : 4 ea.
- Weights : 1 lot.
- ST131 Dial Indicators : 4 ea.

OPTIONAL ACCESSORY :

- ST116 Moment Load Cells and ST125 Vertical Force Load Cell with ST150 Force Indicator instead of ST115 Moment Supports and ST124 Vertical Force Support.