# *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 316 UNSYMMETRICAL CANTILEVER

### DESCRIPTION

The apparatus is used for studying a cantilever deflection and determining shear center when the plane of loading does not co-inside with the axis of symmetry of the cross section. It is to be used with ST305 Universal Base Frame or ST300 Universal Structural Frame (separately supplied).

The cantilever under test is mounted horizontally on a support column at one end. The mounted end can be rotated to indicate its position relative to a fixed angular scale. Load is applied through a weight hanger and weights at the free end. A circular disc is attached to the free end and vertical and horizontal displacements may be measured by two dial indicators. The pin where weight hanger is hung can be moved laterally on the circular disc across and outside the section of the cantilever to determine shear center.

### TECHNICAL DATA :

- Cantilever section made from extruded aluminum 500 mm long.
  - Angle section : 1 ea.
  - Channel section : 1 ea.
  - Rectangular section : 1 ea.
- Load hanger : 1 ea.
- Weights : 1 lot.
- ST131 Dial Indicators : 2 ea.