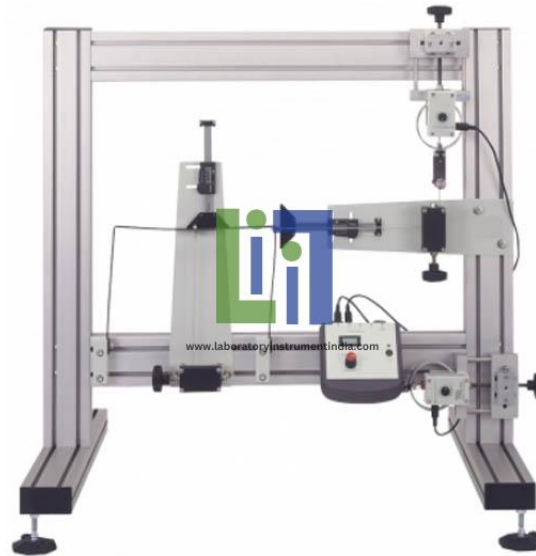




Email : sales@laboratoryinstrumentindia.com

Product Name :
Plastic Bending of Portals

Product Code :
LBNY-0005-13900045



Description :

A proportioning bar is held horizontally by loading chains that run to the Plastic Bending of Portals and to the screwjack loading mechanism (with integral load cell). Two portal frames (pitched and rectangular) are mounted within two ground supports, in either a pinned or fixed condition. Depending on the position of the loading mechanism on the proportioning bar depends on the extent of the load being applied either horizontally or vertically.

Experimental Capabilities:

Determines the increase in collapse load as the degree of redundancy increases
Verifies that hinges occur at positions of greatest bending moment
Studies the change in the collapse mechanism as the ratio of horizontal to vertical load is varied.

Technical Specification :

The apparatus consists of the test portals, two ground foundations, loading pulley, loading cords, proportioning beam, screw jack loading mechanism and deflection measuring instruments
Studies the collapse mechanism of a portal frame when subjected to simultaneous horizontal and vertical loading; calculating and verifying position of greatest bending moment where plastic hinge is likely to form
Screw jack mechanism with integral load cell with output to Interface
Comprehensive technical manual for student and lecturer and text book provided
The ground foundations provide for pinned or fixed supports.
Two different shaped portal frames supplied, both typically made from 13x3mm black mild steel and with a span of 300mm
Rectangular portal frames

Symmetrical gable (Pitched) portal frame
Comprehensive instruction manual provided
Must be used with universal Frame and Stand
Must be used with Interface.



Laboratory Instrument India