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Product Name :

Structures Platform

Product Code :

SLE/EG/01



Description :

The **Structures Platform** (Product Code: SLE/EG/01) is the common base on which the optional Structures experiment modules are assembled and tested. Built from precision slotted aluminium extrusions with steel end plates, it gives a rigid, stable frame for beam, frame, bridge and truss experiments, and its built-in USB interface hub carries sensor signals from each module to a computer. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, for strength of materials and structural analysis laboratories that need engineering educational equipment in India.

Key Details

Parameter	Detail
Type	Experiment platform for Structures modules (modules available separately)
Construction	Precision slotted aluminium extrusions with steel end plates; sturdy, rigid and stable
Levelling	Adjustable feet to level the platform before use
Positioning scales	Easy-to-read scales on each side, removing the need for a separate rule
Data interface	Plug-and-play USB interface hub included
Hub function	Converts signals from the sensors on each module to USB data for computer display and data acquisition
Ergonomics	Compact size and low centre of gravity; usable at a comfortable height sitting or standing

Typical Use

A department usually buys the platform once and then adds modules as its syllabus grows: beams one term, frames or bridges the next. Before each practical, students level the platform with the adjustable feet, clamp the module's supports into the slotted extrusions and use the side scales to set spans and load positions accurately. Sensors on the module are plugged into the USB hub, so readings can be displayed and logged on a computer instead of being copied by hand, which frees lab time for discussion of the results.

Because the frame is compact and sits low, a small group can gather round it at a bench, and it is equally practical for instructor demonstrations. Keeping the extrusion slots clean and the feet correctly adjusted helps modules seat squarely every time. For TVET centres, polytechnics and university civil and mechanical departments, it offers a single, consistent base for a wide set of structures experiments.

Manufacturer

ScienceLab platforms and modules are produced by **Jain Scientific Equipments Private Limit** and produ

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