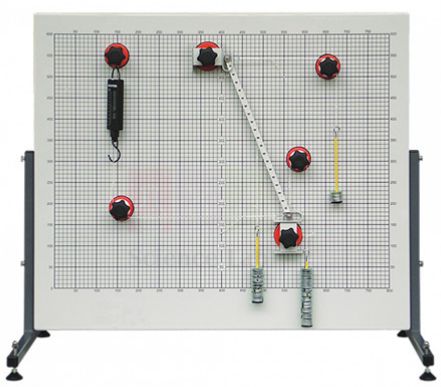
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Equilibrium Of Rigid Body

Product Code :

SLE/ESA/02



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Description :

Equilibrium Of Rigid Body (Product Code: SLE/ESA/02) is a magnetic work panel kit used to study the forces acting on an inclined ladder, a classic rigid-body equilibrium problem, in applied mechanics and engineering science classes. A model ladder is held at angles between 15 and 45 degrees, with or without a climbing mass at any position along its length, while the horizontal and vertical forces are measured. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Mounting	For use with the Work Panel; magnetic parts fit to the panel
Rigid body	Model ladder structure
Ladder angle	Adjustable, 15 to 45 degrees
Climbing mass	Used with or without, at any position along the ladder
Forces measured	Horizontal and vertical forces
Documentation	Fully illustrated user guide with theory, experiments and typical results
Product code	SLE/ESA/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Equilibrium of Rigid Body Kit Used For?

A ladder leaning against a wall is the textbook example of a rigid body in equilibrium: its weight, any load on it and the reactions at the top and foot must balance horizontally, vertically and in moments. With this kit fixed to the Work Panel, students set the ladder angle, read the horizontal and vertical forces, and compare them with the values predicted by the equilibrium equations.

Moving the climbing mass up the ladder step by step shows how the horizontal force at the foot grows, which explains why a real ladder is most likely to slip when someone is near the top. Repeating the series at several angles between 15 and 45 degrees shows how the ladder angle changes the forces. With theory and typical results in the illustrated user guide, the kit fits well into engineering lab equipment programmes at polytechnics and colleges in India.

OEM Manufacturer

ScienceLab is the OEM behind this kit. Jain Scientific Equipments Private Limited (CIN U29309HR2020PTC087597), which trades as ScienceLab, manufactures it at its licensed factory at 449, HSIIDC Industrial Area, Saha, Ambala, Haryana (Factory Licence AMB-ONLINE-CHD-J-414).

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