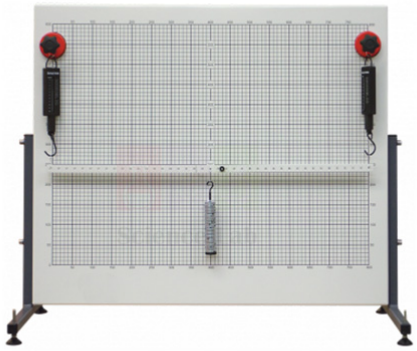
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Product Name :

Equilibrium Of A Beam

Product Code :

SLE/ESA/03



Description :

Equilibrium Of A Beam (Product Code: SLE/ESA/03) is a magnetic work panel kit used to study forces, moments and reaction forces on a rigid beam at equilibrium in engineering science and applied mechanics classes. Masses, magnetic mounts and spring balances apply and measure the forces, and the beam can be supported in several ways, including simply supported or balanced. 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	Magnetic parts fit to the Work Panel
Test member	Rigid beam
Force application	Masses, magnetic mounts and spring balances
Support arrangements	Several, including simply supported or balanced
Measurements	Forces around the beam at equilibrium, including reaction forces
Theory compared	Theory of moments and equilibrium
Product code	SLE/ESA/03
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Equilibrium of a Beam Kit Used For?

Before students can analyse bending in a beam, they need its support reactions, and those follow from two rules: the forces must balance, and the moments about any point must balance. With this kit on the Work Panel, they set the beam up as simply supported, hang masses at chosen positions and read the reaction forces from the spring balances. The measured values are then set against the reactions calculated by taking moments.

Rearranging the magnetic mounts turns the same beam into a balanced beam, where loads on each side must produce equal and opposite moments, a direct link to the principle of levers. Because each set-up takes only minutes on the panel, groups can test several load cases in one practical and see how closely experiment matches theory. It is straightforward engineering lab equipment for colleges, polytechnics and technical schools in India, and a natural first step before bending moment experiments.

What to Specify When Ordering

- Whether you already have the Work Panel the kit fits to, or need one as well
- Number of kits for your student groups
- Any teaching documentation you need with the kit (ask us what is supplied)

OEM

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