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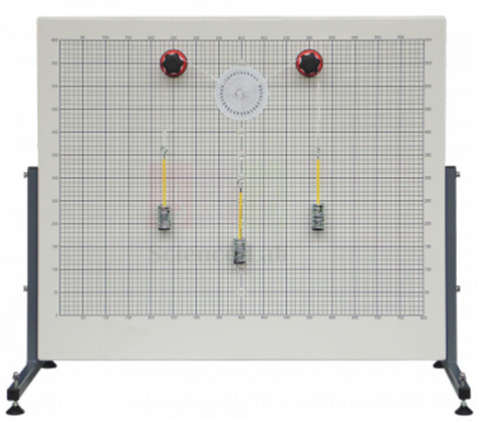
Product Name :

Equilibrium Of A Force

Product Code :

SLE/ESA/04



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Description :

Equilibrium Of A Force (Product Code: SLE/ESA/04) is a statics experiment kit used to study how several forces acting at different angles balance one another in engineering and physics laboratories. Mounted on a work panel, it lets students set up to five forces at any angles on a single point, or apply forces to two points. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as part of its mechanics lab equipment range.

Specifications

Parameter	Detail
Experiments	Forces pulling on one or more points at different angles; forces can also be applied to two points
Number of forces	Up to five, set at any angles
Force application	Masses, hooks, pulleys and cords acting on a single point
Kit parts	Cords, rings, magnetic mounts, magnetic protractors, pulleys, weights, hooks and a spring balance
Mounting	For use with the Work Panel
Methods introduced	Bow’s Notation and the drawing method of finding forces
Documentation	Fully illustrated user guide with theory, experiments and typical results, supplied with each kit
Product code	SLE/ESA/04
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Equilibrium of a Force Kit Used For?

Students hang weights from cords that run over pulleys and meet at a ring, read each cord angle on the magnetic protractors, and then check the balance by drawing a triangle or polygon of forces to scale. The kit introduces Bow’s Notation, the system of lettering the spaces between forces so that each force diagram can be drawn in an orderly way.

Typical exercises start with three cords, extend to four or five forces, and use the spring balance to measure one force directly for comparison with the graphical answer. Applying forces to two points then shows how a system behaves when the loads do not all meet at one point. It suits first-year statics practicals in colleges and polytechnics that stock engineering lab equipment in India, as well as senior school physics. Tip: let the ring settle and keep cords clear of the panel before reading angles, so pulley friction does not distort the result.

What to Specify When Ordering