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Product Name :

Balance Demonstration Fulcrum/Lever

Product Code :

SLE/PHY/18



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Description :

Balance Demonstration Fulcrum/Lever (Product Code: SLE/PHY/18) is a meter-stick lever set used to teach the relationship between the length of a lever arm, the moment of a force and the amount of force, in school physics labs. With a meter stick, a stand, three knife-edge clamps and 50 gram and 100 gram hooked weights, students balance real loads and see the law of moments at work. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMmanufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Teaching aim	Relationship between length of lever arm, moment of force and amount of force; law of torque
Lever	Meter stick
Support	Stand
Clamps	Three knife-edge clamps
Weights	One 50 gram hooked weight; one 100 gram hooked weight
Product code	SLE/PHY/18
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Lever and Fulcrum Balance Used For?

One knife-edge clamp on the meter stick rests on the stand as the fulcrum, and the other two clamps carry the 50 gram and 100 gram hooked weights. Students slide the weights along the stick until it balances, then read each distance from the fulcrum straight off the stick's scale. They soon find that the 50 gram weight must hang twice as far from the pivot as the 100 gram weight, because the moments on either side must be equal: force multiplied by distance on the left equals force multiplied by distance on the right.

Moving the fulcrum away from the centre brings the stick's own weight into play, which lets older students locate its centre of gravity or estimate its mass from the balance point. The set works well as a moment bar apparatus for school practicals and as a quick teacher demonstration of why a long spanner or crowbar makes work easier. Handle the knife edges carefully and keep them clean so the stick pivots freely.

OEM Manufacturer

ScienceLab is how Jain Scientific Equipments Private Limited trades, and the company is the OEM (original equipment manufacturer) of the Balance Demonstration Fulcrum/Lever. The set is manufactured at its licensed factory at Saha, Ambala, Haryana, India, then supplied factory-direct to schools, colleges, dealers and importers. Extra knife-edge clamps, replacement weights or repea
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