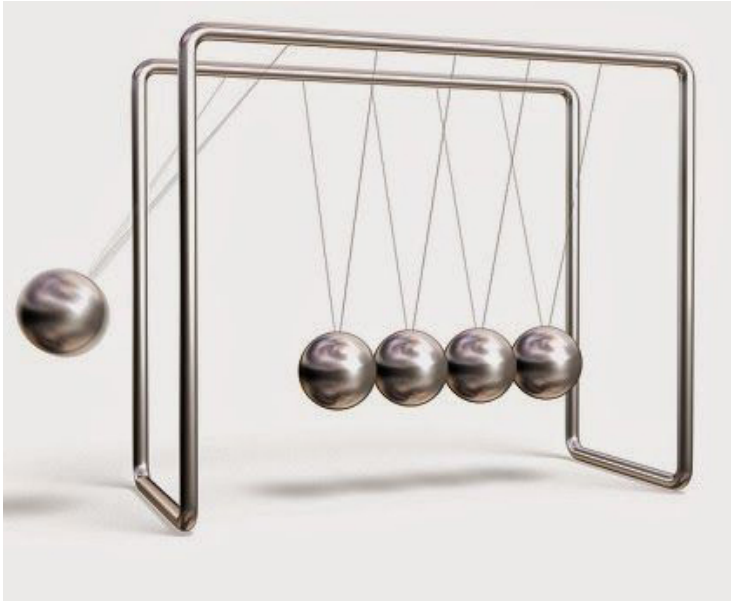
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Product Name :

Newton's Pendulum (Newton's Cradle)

Product Code :

SCL1321/09



Email : sales@scilabexport.com
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Description :

Newton's Pendulum (Newton's Cradle) (Product Code: SCL1321/09) is a row of suspended steel balls used to show how momentum and energy pass along a line of colliding bodies in school and college physics lessons. Its 5 steel balls, at least 15 mm across, hang on two 120 mm wires in a straight line, so a released end ball sends the far ball swinging while the middle ones stay still. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientific instruments manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Type	Newton's cradle on a support
Balls	5 steel balls
Suspension	Each ball attached with two wires; balls aligned on a straight line
Ball diameter	Minimum 15 mm
Suspension wire length	120 mm
Demonstrates	Impulse and energy passing from an end ball to the ball at the opposite end without the intermediate balls changing position
Product code	SCL1321/09
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Newton's Cradle Used For?

Start by releasing a single end ball and ask the class to predict what will happen; then release two together and watch two leave from the far side. Discussing why the number of balls leaving always matches the number released leads students to see that both momentum and kinetic energy are conserved in these near-elastic collisions. Raising the first ball higher makes the far ball rise higher too, a neat link between potential and kinetic energy, and the gradual dying away of the motion opens a discussion of energy lost as sound and heat.

Place the cradle on a level bench, check that the balls hang in a straight line and just touch before you begin, and release the ball rather than pushing it. The two-wire suspension keeps each ball swinging in one plane, which is why the effect is so clear when the set is well aligned. It is a favourite demonstration model in physics lab equipment across India, for classroom lessons and science exhibitions alike.

OEM Manufacturer

Jain Scientific Equipments Private Limited, trading as ScienceLab, is the OEM (original equipment manufacturer) of this Newton's cradle and makes it at its own licensed factory at Saha, Amba
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