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

Product Name :

Set of Springs

Product Code :

SCL-485/01d



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Phone: +91-7082934803

Description :

Set of Springs (Product Code: SCL-485/01d) contains five rust-resistant steel spiral springs of different stiffness, each with a hook at one end, for investigating how springs stretch under load. Because the elastic constants span 20–80 N/m, students can compare soft and stiff springs in a single lesson. Made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a scientific instruments manufacturer in India, it serves as a ready Hooke's law spring kit for class practicals.

Specifications

Parameter	Detail
Contents	5 steel spiral springs
Material	Steel, rust resistant
Diameter of spring spirals	15–20 mm
Elastic constants	20–80 N/m
End fitting	Hook at one end

Typical Use

Hang a spring by its hook from a stand, fix a ruler beside it, and add known masses in equal steps. Plotting extension against force gives a straight line whose slope is the spring constant,and repeating the test with each of the five springs shows how stiffness varies across the set. Groups can then combine two springs in series or in parallel and predict the new constant before measuring it.

The same springs work as the core of an SHM experiment kit India teachers use for oscillation studies: pull a loaded spring down a little, release it, and time several oscillations to find the period, then compare how the period changes with mass and with stiffness. Keep loads modest so each spring returns to its original length when unloaded, which is the sign it has stayed within its elastic limit.

Manufacturer

The springs are manufactured by Jain Scientific Equipments Private Limited, an Ambala, Haryana company whose educational products carry the ScienceLab name and are sent to schools and colleges nationwide. Visit the company profile for background on the business.

Related Lab Equipment

A spring investigation also needs a support, loads, a scale and a timer; these catalogue items complete it:

- Stand — the steel rod and base from which the springs are suspended.
- Set Of Marked Masses — hooked masses for loading the springs in equal steps.
- Metal Ruler — for measuring each extension beside the hanging spring.

Find

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