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Product Name :

Hand-Powered Engine Models

Product Code :

SLE/H/02



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Description :

Hand-Powered Engine Models (Product Code: SLE/H/02) are working teaching models that let students turn a hand crank and watch an engine move through every stage of its cycle. Each model sits on a sturdy base with a placard naming the key engine components, and a simulated spark plug lamp lights to show exactly when firing occurs. Physics and automotive teachers use them as a demonstration model in the physics lab or workshop, and they are made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Operation	Cycles through all stages with hand crank rotation
Construction	Solid cast metal and plastic
Mounting	Sturdy base
Labelling	Placard with key engine components
Firing indicator	Simulated spark plug (lamp) on each model
Lamp power	Depending on the model, 2 AA batteries or a 6- to 12-V powersupply (not included)
Supplied as	Models are sold separately

Typical Use

Turn the crank slowly the first time so the class can follow each moving part against the labelled placard, then speed up to show how the stages link into a continuous cycle. The spark plug lamp is the key teaching cue: pause the crank as it lights and ask students what is happening to the charge in the cylinder at that instant, and why ignition is timed where it is. Because the models are driven by hand, there is no fuel, heat or exhaust, so they can be used safely on an ordinary classroom desk.

The models suit lessons on heat engines and energy conversion in physics, introductory mechanical and automotive courses, and science exhibitions. As engineering lab equipment in India’s polytechnics and ITIs, they help trainees connect textbook diagrams to real component movement before working on full-size engines. Fit the batteries or connect a suitable supply before class, and keep the crank mechanism clean and free of grit.

Manufacturer

Jain Scientific Equipments Private Limited, known to customers as ScienceLab, builds these engine models as part of its teaching apparatus programme in Ambala, Haryana. The company equips institutions throughout India and in international markets; its profile page describes the full scope of work.

Related Laboratory Equipment

Appa