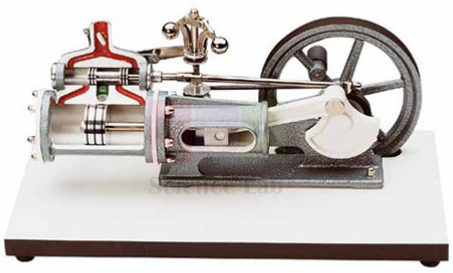
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Product Name :

Steam Engine Model

Product Code :

SLE/MCE/65



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Phone: +91-7082934803

Description :

The Steam Engine Model opens up a reciprocating steam engine for the classroom: its metal cylinder is cut through and covered with a clear plate, so the piston andslide valve can be watched as they move. The link motion and reversing method alsowork, and the wheel turns so lightly that blowing air on it starts the model.

Steam engine model specifications

Parameter	Detail
Type	Cutaway classroom model of a working steam engine
Cylinder	Metal, cross-section cut, covered with a clear plate to show the piston
Moving parts	Piston and slide valve both move; link motion and reversing method operate
Wheel	Light enough to demonstrate even by blowing air
Finish	Parts and cross-sections painted in different colours; many parts chromium-plated and galvanized
Dimensions	Approx. 450 × 350 × 300 mm
Weight	Approx. 9 kg
Product code	SLE/MCE/65
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Lessons with the sectioned steam engine

Following the steam path. Turn the wheel slowly by hand and stop it near each end of the piston stroke. At every stop, students mark on a sketch which port the slide valve has opened to steam and which to exhaust. They then show how the connecting rod turns the back-and-forth motion into rotation of the wheel.

Forward and reverse. Set the link motion to one end of its travel and turn the wheel slowly by hand to a chosen piston position. Note where the slide valve sits. Move the link motion to its other end and look at the valve again. Students explain why steam admitted now would drive the wheel the other way.

Comparing heat engines. Set the model beside the Stirling engine and the Hero engine. In each real machine the fuel burns outside the engine, yet each turns heat into motion differently: steam on a valve-timed piston, a sealed gas heated and cooled in turn, and a reaction jet. A four stroke petrol engine cut section then shows inter

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