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Product Name :

Section Model Of Four-Stroke Diesel Engine

Product Code :

SLE/MCE/67



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Description :

Section Model Of Four-Stroke Diesel Engine (Product Code: SLE/MCE/67) is a sectioned training model used to explain the construction and working cycle of an indirect-injection diesel engine in automotive and mechanical engineering classes. Its internal surfaces are colour-coded for air, fuel and gas mixture, and exhaust gas, while a 3-volt bulb glows at the firing point of the cycle. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Engine type	Four-stroke diesel, indirect injection, sectioned for training
Displacement	100 cc
Power	6 HP
Injection system	Injection pump, injector, pre-chamber, preheating glow plug
Fuel system details	Cam-operated jerk pump and manually operated air inlet diaphragm injection nozzle and starting valve
Valve train	Camshaft in the crankcase, overhead valves
Other parts shown	Rpm regulator, oil pump, air filter, silencer, tank, cooling system, distribution circuit
Firing indication	3-volt bulb glows at the correct point in the cycle through an electrical contact system in the model
Colour coding	Internal surfaces coloured for air, fuel and gas mixture, and exhaust gas; parts, lubricating circuits, fuel and cooling systems painted in different colours
Dimensions	500 × 500 × 650 mm
Weight	25 kg (approx.)
Product code	SLE/MCE/67
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Diesel Engine Section Model Used For?

The model shows why a diesel needs no spark: only air is drawn in and squeezed until it is hot enough to ignite fuel sprayed into the pre-chamber, with the glow plug helping on cold starts. As the crankshaft is rotated, the coloured surfaces show which gas fills the cylinder at each stroke and the bulb marks the instant combustion begins.

Instructors use it to walk through the injection pump, injector and pre-chamber in sequence befor a cours n the p engin