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Product Name :

Section Model Of Four-Stroke Diesel Engine

Product Code :

SLE/MCE/67



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Description :

The Section Model Of Four-Stroke Diesel Engine shows how a 100 cc indirect-injection diesel works, with its injection pump, injector, pre-chamber and glow plug opened up for view. Coloured internal surfaces mark air, fuel and gas mixture, and exhaust gas, and a 3-volt bulb lights at the firing point as the crankshaft is turned.

Diesel engine section model specifications

Parameter	Detail
Engine type	Four-stroke diesel, indirect injection, sectioned for training
Displacement	100 cc
Injection system	Injection pump, injector, pre-chamber, preheating glow plug
Fuel system details	Cam-operated jerk pump; 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 in different colours
Dimensions and weight	500 × 500 × 650 mm; 25 kg (approx.)
Product code	SLE/MCE/67
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Diesel lessons on the section model

Finding the firing point. Turn the crankshaft slowly through the compression stroke and stop the moment the 3-volt bulb lights. Students mark the crank position, note that the piston is close to the top of its stroke, and explain why fuel must arrive just before that point to burn at the right time.

Tracing the fuel path. Starting at the tank, the class follows the fuel through the cam-operated jerk pump and the injector into the pre-chamber, then finds the glow plug used for cold starts and the starting valve. The diesel fuel injection system inline pum VE pum

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