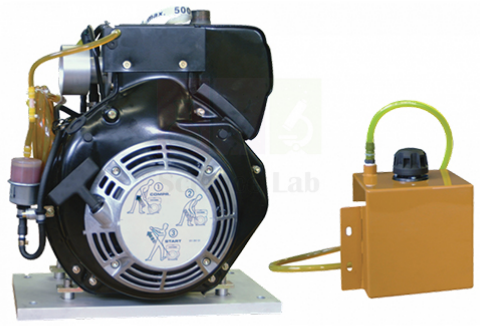
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Product Name :

4 Stroke Diesel Engine

Product Code :

SLE/EE/04



Email : sales@scilabexport.com
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Description :

4 Stroke Diesel Engine (Product Code: SLE/EE/04) is a compression-ignition test engine usedto study diesel performance and combustion on a dynamometer test set in engineeringlaboratories. Its modified cylinder head and crank accept a cylinder head pressure transducer andcrank angle encoder, so an engine cycle analyser can extend the experiments. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, to colleges sourcing lab equipments for technical institutes.

Key Details

Parameter	Detail
Engine type	Four-stroke diesel engine for laboratory testing
Modifications	Modified cylinder head and crank
Instrumentation provision	Allows use with the Cylinder Head Pressure Transducer and the Crank Angle Encoder
Extended experiments	Transducer and encoder can connect to the Engine Cycle Analyser
Mounting	Sturdy precision bed plate with dowels and slots that align and locate it accurately with the dynamometer test set
Engine changeover	Bed plate location minimises the time spent replacing oneengine with another
Product code	SLE/EE/04
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the 4 Stroke Diesel Engine Used For?

Mounted on the dynamometer test set, the engine lets students measure torque, speed and fuel consumption for a compression-ignition engine and set the results beside those of a petrol engine. The modified head and crank take the work further: with a pressure transducer in the cylinder head and an encoder on the crank, a cycle analyser can build pressure–crank-angle and pressure–volume diagrams, from which indicated power, ignition delay and peak cylinder pressure are studied.

Plan the course in two stages – performance tests first, then combustion analysis once the transducer and encoder are fitted. Mechanical and automobile departments building engineering lab equipment India-wide often run this engine and a petrol engine on one test set, using the located bed plate to change between them.

What to Specify When Ordering

- The dynamometer test set the engine will mount on
- Whether the Cylinder Head Pressure Transducer, Crank Angle Encoder and Engine Cycle Analyser should be quoted with it
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