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Product Name :

4 Stroke Petrol Engine

Product Code :

SLE/EE/02



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Description :

Adapted for laboratory testing and demonstrations, this spark-ignition engine runs on a dynamometer test set. It comes with an exhaust thermocouple, a half-coupling for the dynamometer and the essential hoses and fittings, all on a precision bed plate. Quick-release fuel couplings and a removable tank make fuelling and storage between classes simple.

4 stroke petrol test engine details

Parameter	Detail
Engine type	Four-stroke petrol engine adapted for laboratory testing and demonstrations
Included fittings	Exhaust thermocouple; half-coupling to the test set dynamometer; essential hoses and fittings
Mounting	Precision bed plate with dowels and slots that align and locate it on the dynamometer test set
Engine changeover	Bed plate location shortens the time to replace one engine with another
Fuel connections	Quick-connect couplings with minimum loss or spillage of fuel
Fuel tank	Removable for filling or for storage in a fuel locker; removal also prevents unauthorised use
Product code	SLE/EE/02
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Petrol engine practicals on the dynamometer

Performance curves. Run the engine across a range of speeds and loads, and at each point note torque, speed, fuel flow and the exhaust thermocouple reading. Plot torque and brake power against speed to find where each one peaks, and mark the speed where fuel use per unit of power is least.

Heat balance. Time the fuel flow with the manual volumetric fuel gauge and pass the exhaust through the exhaust gas calorimeter to measure the heat it carries. Set brake power, exhaust heat and cooling loss against the fuel energy and show where the rest went.

Introducing the cycle. Before any engine runs, walk the class through the cut section model of a four stroke petrol engine to show the spark plug, valves and the order of the f

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off

next

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