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Product Name :

Four Stroke Four Cylinder Petrol Engine Test Bench

Product Code :

SLE/MCE/53



Description :

Four Stroke Four Cylinder Petrol Engine Test Bench (Product Code: SLE/MCE/53) is an engine test rig used to measure the torque, power, fuel consumption and efficiency of a running multi-cylinder petrol engine in automotive and mechanical engineering laboratories. Built on a welded mobile frame, it carries a 1086 cc, water-cooled MPFI engine rated at 63 BHP and coupled to a brake load unit. The bench is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Engine	Branded petrol engine, MPFI version
Working cycle	Four-stroke, spark ignition
Number of cylinders	Four
Capacity	1086 cc
Bore × stroke	66 mm × 77 mm
Maximum power	63 BHP at 5500 rpm
Maximum torque	89 Nm at 3000 rpm
Cooling	Water-cooled, closed cooling water circuit
Starting	Self-start
Fuel / engine oil	Petrol / SAE 5W-30
Battery and alternator	Battery 12 V, 45 A; alternator 12 V, 45 A
Power supply	230 V, 50 Hz, single phase
Load connection	Engine fastened to the load unit; brake driven through a rotationally elastic coupling with jointed shaft
Frame	Solid welded frame on rollers; engine flexibly mounted
Guarding	Perforated plates over hot surfaces and rotating parts
Experiments	Torque and power curves, specific fuel consumption, overall engine efficiency
Product code	SLE/MCE/53
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Petrol Engine Test Bench Used For?

In a performance practical, students run the engine at a series of speeds and loads, note the torqu wer curve n and c