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Product Name :

Rotary Air Compressor Test Bench

Product Code :

SLE/MCE/58



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Description :

Rotary Air Compressor Test Bench (Product Code: SLE/MCE/58) is a laboratory test rig built around a rotary vane compressor, used to determine volumetric efficiency, power consumption and free air discharge in thermal engineering practicals. Mechanical engineering departmentspick this technical educational equipment because intake airflow, discharge pressure andelectrical input are all measured on one bench, with data acquisition software and USB transfer toa PC included. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMengineering lab equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Compressor	Rotary vane compressor driven by a 3 HP motor
Air intake measurement	Calibrated orifice meter with water manometer
Discharge pressure	Measured by a pressure gauge
Power input	Measured by an energy meter
Delivery control	Control valve on the delivery side
Timing	Stop clock
Other measured values	Air throughput and electrical power consumption; pressures and temperatures recorded by sensors
Display	Measured values shown on digital displays
Data acquisition	Software included; measured values can be transmitted directly to a PC via USB
Safety devices	Pressure relief valves and pressure switches
Dimensions	1500 × 1500 × 1250 mm
Weight	320 kg (approx.)
Product code	SLE/MCE/58
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Rotary Air Compressor Test Bench Used For?

The bench lets students run a rotary vane compressor at several delivery pressures, set with the control valve, and calculate volumetric efficiency, input power and free air delivered at each one. Intake air is measured with the calibrated orifice meter and water manometer, discharge pressure is read on the gauge, and the energy meter together with the stop clock gives the electrical input over a timed run.

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