Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Turbojet Engine Test Bench

Product Code :

SLE/MCE/56



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Description :

Turbojet Engine Test Bench (Product Code: SLE/MCE/56) is a gas turbine jet engine rig usedto demonstrate thrust generation and measure the operating behaviour of a small turbojet in aeronautical, mechanical and thermal engineering laboratories. Its engine delivers a maximum thrust of 82 N at 117,000 rpm, while the bench measures pressures, temperatures, speed, fuel consumption and force. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Maximum thrust	82 N at 117,000 rpm
Speed range	35,000–117,000 rpm
Exhaust gas temperature	610 °C
Starting system	Electric starter
Fuel	Kerosene or petroleum, with turbine oil
Fuel tank	1 tank, 5 L
Fuel consumption	Max. 22 L/h at full load
Sound level at 1 m	Max. 130 dB(A)
Differential pressure measurement	0–150 mbar
Combustion chamber pressure	0–2.5 bar
Temperature measurement	2 × 0–1200 °C and 1 × 0–400 °C
Speed measurement	0–120,000 rpm
Fuel consumption measurement	0–25 L/h
Force measurement	0 to ±200 N
Power supply versions	230 V, 50 Hz, 1 phase; 230 V, 60 Hz, 1 phase; 120 V, 60 Hz, 1 phase
Dimensions	1200 × 900 × 330 mm
Weight	120 kg (approx.)
Product code	SLE/MCE/56
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Turbojet Engine Test Bench Used For?

Students start the engine with the electric starter, run it across its 35,000–117,000 rpm speed range[illegible]w at each [illegible] fuel consu[illegible]sion