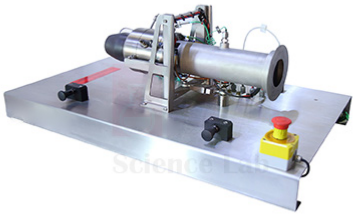
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Axial Flow Turbine test bed

Product Code :

SLE/MCE/52



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Description :

Axial Flow Turbine test bed (Product Code: SLE/MCE/52) is a small gas turbine engine test bed used to measure thrust and air mass flow and to study turbine engine operation in engineering and propulsion laboratories. Mechanical and aeronautical engineering departments use it to run an engine with a single-stage radial compressor and a single-stage, low-mass axial flow turbine, producing a typical thrust of 200 N. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, within its range of engineering lab equipment in India.

Specifications

Parameter	Detail
Thrust	200 N typical
Air mass flow	450 g/s
Engine speed	105,000 rpm typical
Exhaust gas temperature	800°C typical
Compressor type	Single-stage radial
Turbine type	Single-stage, low-mass axial flow
Ignition system	Glow plug
Engine mount	Single pivot point, enabling accurate thrust measurement
Air intake	Custom-fabricated frontal duct replaces the standard inlet so air mass flow rate can be measured accurately
Engine control	Electronic pre-programmed controller supervises the engine constantly for safe operating conditions
Support systems	No external lubrication system; no external battery or charger needed
Frame	Sturdy metal frame holding the engine firmly
Safety screen	Tough, transparent polycarbonate
Optional stand	Floor-standing frame housing the unit with its fuel tank and electronic console
Dimensions	880 x 510 x 1185 mm
Weight	150 kg (approx.)
Product code	SLE/MCE/52
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Axial Flow Turbine Test Bed Used For?

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