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Product Name :

Computerized Gear Pump Test Rig

Product Code :

SLE/MCE/47



Science Lab
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Description :

Computerized Gear Pump Test Rig (Product Code: SLE/MCE/47) is a bench-top positive displacement pump trainer used to measure gear pump flow, shaft power and efficiency with computer software in fluid mechanics laboratories. Its motor-driven gear pump has a clear acrylic pump head, runs at inverter-controlled speeds up to 1,800 rpm and circulates water from an acrylic reservoir on a stainless steel plinth. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Pump type	Gear pump (positive displacement), two meshing gear wheels, no valves
Construction	Stainless steel plinth with water reservoir and pipework for continuous circulation; pump head and reservoir in clear acrylic
Speed control	Electronic inverter
Maximum flow rate	6.5 L/min (typical)
Maximum head	25 m
Maximum pump speed	1,800 rpm
Motor	250 W, 230 V, 1 phase
Parameters shown in software	Flow rate, motor shaft power, pump speed, pump efficiency, volumetric efficiency
Instrumentation	Sensor conditioning electronics with readings displayed on computer software
Dimensions	670 x 590 x 750 mm
Weight	Approx. 50 kg
Product code	SLE/MCE/47
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Gear Pump Test Rig Used For?

Gear pumps move oil in hydraulic power packs, lubrication systems and fuel transfer because they deliver a fixed volume per revolution and cope well with high-viscosity fluids. Inside this rig, one gear is driven and the other turns in mesh with it; liquid is carried round in the spaces between consecutive teeth and forced out as the teeth re-engage, all clearly visible through the acrylic pump head.

Students set a series of speeds on the inverter and follow the software as it logs flow rate, motor shaft
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