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Product Name :

Michell Pad Apparatus

Product Code :

SLE/ETM/14



Science Lab
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Description :

Michell Pad Apparatus (Product Code: SLE/ETM/14) is a bench-mounted, self-contained apparatus used to demonstrate the pressure distribution across the oil film in a Michell tilting pad slider bearing in engineering laboratories. Students read oil pressure on a set of thirteen graduated tubes while adjusting pad tilt and belt speed. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Type	Bench-mounted, self-contained Michell tilting pad slider bearing demonstration
Pad	Aluminium plate mounted above a continuous loop flat belt
Pad adjustment	Held on two eccentric shafts to set the angle of tilt
Pressure readout	Set of 13 graduated tubes showing oil pressure across and along the film
Pad position	Micrometers measure leading and trailing edge positions
Belt drive	Motor with variable speed control
Included	Container of oil and a viscometer for measuring oil viscosity
Product code	SLE/ETM/14
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Michell Pad Apparatus Used For?

Large thrust bearings in turbines and ship propeller shafts rely on the tilting pad principle: a slightly inclined pad drags oil into a converging gap, and the wedge of oil builds enough pressure to carry the load without metal-to-metal contact. On this apparatus the moving flat belt plays the part of the runner, the aluminium pad sits above it, and the oil film forms in between, so the whole effect can be seen and measured on a bench.

Students set a tilt with the eccentric shafts, record the leading and trailing edge positions with the micrometers, and read the thirteen tubes to plot pressure under the pad. Changing the belt speed and measuring the oil with the included viscometer then links sliding speed, viscosity and film thickness to pressure distribution — a clear viscosity measurement and lubrication practical for engineering colleges. Keep the oil container closed between sessions so the oil stays clean.

OEM Manufacturer

The Michell Pad Apparatus comes from Jain Scientific Equipments Private Limited, trading as ScienceLab, which manufactures it as the OEM at its own licensed factory at Saha, Ambala, Harya nd quest

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