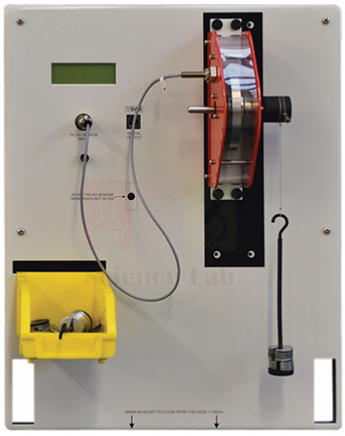
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Product Name :

Acceleration & Static Test Stand

Product Code :

SLE/ETM/11



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Description :

Acceleration & Static Test Stand (Product Code: SLE/ETM/11) is a separate bench stand used to measure angular acceleration, find inertia by experiment and run static efficiency tests on a gear drive in engineering laboratories. Students use it alongside dynamic gear-drive tests, because a sensor and multiline display calculate the flywheel's angular accelerationautomatically. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMmanufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Experiments	Angular acceleration, inertia by experiment, static efficiency of a gear drive
Loading	Sets of weights apply turning forces to the flywheel shaft
Flywheel	A simplified version of one of the gears in the gear drive
Measurement	Sensor and multiline display that automatically calculate angular acceleration
Storage	Slot at the front holds a tray for the weights and other loose items
Comparison	Static efficiency results can be compared with dynamic tests on the base unit
Product code	SLE/ETM/11
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Acceleration & Static Test Stand Used For?

Before students can predict how quickly a gearbox speeds up, they need a feel for rotational inertia. On this stand a set of weights applies a known turning force to the flywheel shaft, the sensor follows the flywheel as it speeds up, and the multiline display works out the angular acceleration. From the applied torque and the measured acceleration, the class calculates the flywheel's inertia and checks it against theory.

Because the flywheel is a simplified version of one of the gears in the gear drive, the experiment is a stepping stone to inertia calculations for complete gear trains. The same stand also runs simple static efficiency tests on the gear drive, giving a second set of figures to set beside dynamic results from the base unit — a useful comparison for moment of inertia and flywheel experiment work in Indian engineering colleges. Keep the weights in the front tray between runs so none go missing.

What to Specify When Ordering

- Whether you already own the gear drive and base unit, or need them quoted with the stand.
- The number of stands, based on how many student groups work at once.
- Your mains supply, so the sensor and display arrangement can be confirmed.

OEM

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