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Product Name :

Energy Absorbed At Fracture

Product Code :

SLE/ETP/03



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Description :

Energy Absorbed At Fracture (Product Code: SLE/ETP/03) is a small-scale, bench-mounted notched-bar impact tester used to measure how much energy a material absorbs as it breaks, in engineering and materials science teaching labs. A pendulum on low-friction bearings, an angular encoder at the pivot, an instrumentation unit and a power supply work together behind an interlocked guard, giving students a safe introduction to impact testing. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Type	Small-scale, bench-mounting notched-bar impact tester
Main parts	Main unit, instrumentation unit and power supply
Pendulum	Supported in a rigid frame by low-friction bearings
Angle measurement	Angular encoder in the pivot measures the pendulum's position over its range of movement
Guarding	Fully enclosed, with an interlocked guard covering all moving parts
Levelling	Adjustable feet on the base
Investigations	Resistance of materials to crack propagation; principles ofcommon impact testing techniques
Product code	SLE/ETP/03
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Notched Bar Impact Tester Used For?

A notched bar is placed in the tester, the pendulum is raised and released, and it swings down to strike and break the specimen. The pendulum rises less on the far side than it would have with nothing in its path, and that shortfall in height is the energy the specimen soaked up as it fractured. The angular encoder tracks the pendulum's position throughout the swing, so the angles are measured electronically instead of being read from a pointer by eye.

Testing different materials, or the same material with different notches, shows why some parts fail in a tough, ductile way and others snap in a brittle manner — the practical question behind the impact tests used in industry. Level the frame with its adjustable feet before a session, keep the interlocked guard closed during every swing, and examine each fracture surface afterwards alongside the recorded energy.

What to Specify When Ordering