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Product Name :

Computerised Tensile Tester

Product Code :

SLE/ET/02



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Description :

Computerised Tensile Tester (Product Code: SLE/ET/02) is a motorised tensile testing instrument used to pull a specimen to failure while recording its load, yield and elongation in materials and polymer testing laboratories. Engineering colleges and quality-control labs use it for loads up to 500 kg on one load cell, with up to 1000 mm of cross travel and speeds from 10 to500 mm/minute. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala, India, as part of its range of test and measurement instruments in India.

Specifications

Parameter	Detail
Load capacity	Up to 500 kg
Number of load cells	One
Cross travel	Up to 1000 mm
Test speed	Variable, 10 mm/minute to 500 mm/minute
Display	Direct display through microcontroller
Values displayed	Peak load, break load, tensile strength at peak, tensile strength at break, yield load, yield stress, % elongation at peak
Power supply	230 V, 50 Hz, single phase
Product code	SLE/ET/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Computerised Tensile Tester Used For?

A tensile test holds a strip or shaped specimen at both ends and draws the ends apart at a steady rate until the specimen breaks. On this instrument the microcontroller follows the load cell throughout the pull and shows peak load, break load, tensile strength at peak and at break, yield load, yield stress and percentage elongation at peak, so students and technicians read results directly instead of working them out from a chart.

Typical exercises include comparing the strength and ductility of different materials, relating yield stress to peak strength, and checking how the pulling rate changes a result. Use slower speeds near 10 mm/minute for stiff or brittle samples and faster settings for very extensible ones, measure specimen width and thickness carefully because tensile strength is load divided by cross-sectional area, and keep expected loads inside the 500 kg rating. It is useful engineering lab equipment in India for strength-of-materials and polymer courses.

What to Specify When Ordering

- The highest load your specimens will reach, confirming it is within the 500 kg capacity
- Specimen material, shape and size, so gripping arrangements can be confirmed with us
- The test speeds your method requires within the 10 to 500 mm/minute range

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