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Product Name :

Bench Top Tensile Testing Machine

Product Code :

SLE/ETP/19



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Description :

Bench Top Tensile Testing Machine (Product Code: SLE/ETP/19) is a small-scale, hand-operated tensile tester used to run simple tensile tests on metal specimens up to a maximum load of 20 kN in engineering teaching laboratories. A worm-and-wheel drive with about 400 mm oflead-screw travel, a strain-gauged load cell with peak hold and a sliding digital extension displaymake it practical lab equipment for technical institutes. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Maximum load	20 kN
Specimens	Metal specimens, for simple tensile tests
Format	Small-scale machine that fits on a benchtop
Load application	Hand-driven worm-and-wheel gearbox driving a lead screw
Lead screw travel	Approximately 400 mm
Bearings	Low-friction bearings with a large handwheel; ball races and self-aligning ball thrust races in the direction of loading
Operation	Smooth and progressive, helping the user apply a steady strain rate; maximum load reached with minimum effort
Load measurement	Strain-gauged load cell connected to a microprocessor-controlled digital display
Peak hold	Registers the maximum load before the specimen breaks
Extension measurement	Sliding digital display measures tensile displacement over the entire movement
Product code	SLE/ETP/19
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Bench Top Tensile Tester Used For?

The tensile test is the foundation of materials science: from one specimen, students obtain yield strength, ultimate tensile strength, elongation and a full load-extension curve. This machine brings that test onto an ordinary laboratory bench, so every group can run its own specimens instead of watching a single large machine from a distance.

Students turn the handwheel steadily, reading load from the digital display and extension from the sliding digital display at regular intervals. The peak-hold function keeps the maximum load on scree , keep ars eye p

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