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Product Name :

Tensile strength testing machine

Product Code :

SLE/MCE/15



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Description :

Tensile strength testing machine (Product Code: SLE/MCE/15) is a motor-driven tester used to measure the tensile strength and elongation of metals and non-metals in engineering, textile and materials laboratories. Colleges and quality labs use it on anything from foam, rubber and plastic to wires, ropes, yarns and belts, reading loads up to 250 kg to 0.1 kg and elongation up to 900 mm on digital displays. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, anOEM manufacturer of engineering lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Load range	250 kg
Load least count	0.1 kg, digital display
Elongation	Up to 900 mm
Elongation least count	0.1 mm, digital display
Drive motor	½ HP, 1425 rpm induction motor
Power supply	220 V AC, single phase
Raw materials tested	Metals and non-metals such as foam, rubber, textiles, plastic and paper
Finished products tested	Rods, wires, ropes, yarns, belts and similar items
Product code	SLE/MCE/15
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Tensile Strength Testing Machine Used For?

Tensile strength and elongation are the two prime characteristics of most raw materials, and they often decide whether a material suits a particular application. Students grip a specimen, run the motor to stretch it and note the peak load and the extension at break from the two digital displays. With 900 mm of elongation travel, the machine handles very stretchy materials such as rubber and yarn as well as wires and rods.

Choose specimen sizes so the expected breaking load stays within 250 kg, mark a gauge length before each test to work out percentage elongation, and note the load at regular extension intervals if you want a load–extension graph. It is practical engineering lab equipment for mechanical and civil departments that also serves textile, polymer and packaging courses.

What to Specify When Ordering

- The materials and product forms you will test, e.g. wire, yarn, rubber sheet or paper strip
- Expected breaking loads, to confirm they fall within the 250 kg range

OEM

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