3SAE LINEAR TENSILE TESTER LD (LTT-LD)

The 3SAE Linear Tensile Tester LD (LTT-LD) is an automated tension tester for large diameter optical fibers with cladding diameters ranging from 125-1000 µm in diameter. The fiber clamps accommodate coatings up to 1000 µm in diameter.

The LTT-LD incorporates large bend radius mandrels to accommodate large diameter fiber and an automated tension test process. The built-in LCD reports an acceptable "Pass" result and maximum tension, in Newtons (N) or Kpsi, applied to the optical fiber during the proof test. The 3SAE Linear Tensile Tester - Large Diameter also supports destructive testing of optical fiber by pulling and displaying the maximum achieved tension.

The built-in LCD and keypad ensures stand-alone operation and provides the operator easy access to software adjustable parameters such as maximum tension, tension rate and proof test hold times in 10 user selectable and customizable tension programs. These features allow for extreme flexibility for use in laboratory or production environments.

The LTT-LD includes a universal AC-12 VDC power supply and requires no additional external connections, such as air for operation or PC for configuration. An available RS-232 port provides the ability to update the firmware and supports data collection from any appropriately configured computer.

Key Features: Linear Tensile Tester LD (LTT-LD)

- High tensile range, up to 220N
- Can be used in horizontal orientation on a test bench or mounted vertically on a stand
- Built-in graphical LCD control (No PC required)
- Storage up to 10 programs

Standard Package

Part Number	Product	Includes
RCT-01-0005	3SAE Linear Tensile Tester LD (LTT-LD)	Includes power supply, electronic user's manual, Manufacturer's 1-year parts and labor warranty

Accessories

Part Number	Product
ACC-01-0175	Power Supply 108W/12V/9A

Technical Specifications

Feature	Specification
Dimensions	1120 (W) x 366 (D) x 118 (H) mm
Weight	~35 kg
Power Source	Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 9 A
Fiber Cladding Diameter	125- 1,000 µm
Tensile Test	Up to 220N
Resolution	0.1N
Pull Speed	0-5 mm/s
Hold time	0-10000 ms