



Features

- Fully automatic, easy to operate
- Two basic configurations—linear or rotary tensile testing
- Adjustable clamp positioning
- No need for external air supply or vacuum
- Built-in LCD touch screen control

ProofTester 2

This automatic optical fiber tensile testing system is designed for operator skill independent use in production and laboratory settings. Two basic model configurations allow the user to choose between a set up for standard linear proof testing and with additional mandrels for rotary high strength testing.

The linear version is designed for production proof testing with forces up to 22 N. Motorized clamps with carefully designed rubber inserts ensure that the fiber coating is not damaged in the testing process while at the same time eliminating the need for an external air supply. Levels of pulling force, pulling speed and hold time are programmable and conveniently accessible to the operator through the built-in LCD touch screen control. Data from tests can be saved and accessed via the USB port or Ethernet interface.

Mandrels of the same design as in NYFORS' optical fiber recoaters can easily be mounted on the proof tester in the rotary high strength configuration. The fiber is wrapped around the two mandrels which support it with a special clamping mechanism. This way much higher loads can be applied onto the fiber, enabling breaking strength tests under controlled circumstances.

Adjustable clamp positioning facilitates testing with the highest force levels as well as testing of short fiber lengths.

The compact and light weight design makes the instrument easy to move around in a laboratory environment and to integrate in a production work bench where space is at a premium.

Specifications

| PARAMETER | VALUE |
|--------------------|----------------------------------|
| Fiber cladding | 165-900 μm |
| Linear proof test | Programmable 0-20 N |
| Mandrel proof test | Programmable 0-100 N |
| Hold time | Programmable |
| Pull rate | 0.5-20 N/s |
| Power supply | External 12 V DC, 60 W |
| PC connection | Ethernet and USB Flash drive |
| Dimensions | 270 mm (W) x 170 mm x 105 mm (H) |
| Weight | 3.8 kg |

Ordering Information

| DESCRIPTION | AFL NO. |
|--|----------|
| ProofTester 2 (Includes: PC software, RS-232 cable, power supply, power adapter, manual and tools) | 10100067 |
| Mandrels (Left and Right) | 10100056 |

