

# ATI

ADVANCED TESTING INSTRUMENTS



TESTING INSTRUMENTS  
FOR FABRICS & GARMENTS  
**TF002 TEXTILE  
TENSILE TESTING  
MACHINE**

## TF002 TEXTILE TENSILE TESTING MACHINE

Textile Tensile Testing Machine, to determine the physical and mechanical performance of tension, tearing, compression, bursting, rupture, flexibility, shear and peel and seam slippage.

Especially designed to test a wide range of yarn, fabric and leather, with a huge assortment of specimen grips and software available; it can also be used for strength test of rubber, plastic, metal, wire, paper, packaging, and other materials.

TF002 is dual column type tensile testing machine, PC-operated, Japanese-made AC servo driving system and two quality ball-screws with load cell for ideal and smooth control. The machine is equipped with a standard PC running data analysis software package, via a highspeed RS232 in both ASCII and super high-speed binary modes.

Note: A customized PC is needed for this instrument.

### SPECIFICATIONS

- Test method: CRE principle
- Control system: closed control system, quality motor and ball-screws
- Test capacity: 5000 N
- Tensile speed: 0.01-1000 mm/min digital speed, error  $\pm 2\%$
- Elongation Resolution: 0.01 mm
- Measuring system: high-precision force sensor
- Sampling frequency of system: 2000 times/sec.
- Force measurement range: 1% of full scale to 100%
- Minimum scale value: 0.1 N
- Force measurement accuracy:  $\leq \pm 2\%$  F S
- Gauge distance: limit control, digital setting
- Gauge distance accuracy:  $\pm 0.1$  mm
- Sample holder: pneumatic clamping
- Holder control: foot switch
- Built-in intelligent active force and displacement alarm system
- High-resolution digital closed-loop controller
- Operating temperature range: 0 to 38°C
- Storage temperature range: -10 to 45°C
- Humidity range: 10% to 90% non-condensing, web bulb method.
- Power must be free of sparks and surges exceeding 10% of the nominal voltage

**STANDARDS:** ISO 13934.1/2, ISO 13935.1/2, ISO4606

**POWER:** 220 / 110 V 50 / 60 Hz

**WEIGHT:** 200 kg

**DIMENSIONS:** 840 x 600 x 1900 mm (L x W x H)

