

Compute Control Single Column Tensile Testing Machines Manufacturer



Compute Control Tensile Strength Test Equipment With Celtron Load Cell Sensor

APPLICATIONS

1. **Tested sample:** plastic films, laminated materials, adhesive tapes, adhesive bandage (plaster), release paper, plastic films, leather, rubber & plastic, paper, fiber, etc.
2. **Different test with different grips:** tensile, peel, tear, heat seal, adhesive, bend and open force.
3. **Deformation under defined load:** Test deformation under defined load of tested sample
4. **Load under defined deformation:** Test load under defined deformation of tested sample
5. **Software** can issue **word/excel report** with results for max. force, elongation, tensile strength, peel strength, tear strength, compression strength, etc.

Main Technical Parameter

Items	Specification
Sensor	Celtron load cell
Capacity	5, 10, 20, 25, 50, 100, 200kg
Unit Switchover	G, KG, N, LB
Display Device	LCD or PC
Resolution	1/250,000
Accuracy	±0.25%
Max. Stroke	1000mm (including fixture)

Test Speed	0.1-1000mm/min (adjustable)
Motor	Panasonic Servo Motor
Screw	High Precise Ball Screw
Elongation Accuracy	0.001mm
Power	1 ϕ , AC220V, 50HZ
Weight	Approx.75kg
Accessories	One set tensile clamp, one set Lenovo computer, one piece English software CD, one piece operation video CD, one piece English user manual

Theory:

Place the sample between the upper and lower fixture, use a given speed to pull the upper fixture upward, and the upper load cell with sensor to check tensile strength and convert the strength into voltage sign and output to the display screen. And the strength value will be displayed automatically on the computer

Product Features:

1. Motor system: Panasonic servo motor +Servo driver +High precise ball screw (Taiwan)
2. Control system: a, computer control with TM2101 software; b, Back to origin automatically after the test, c, store data automatically or by manual operation
3. Data transmission: RS232
4. Displacement resolution: 0.001mm
5. Graph scale automatic optimization can make graph to display with best measurement and can implement graphics dynamic switching in the test and has force-elongation, force- time, elongation - time, stress - strain.
6. It can save results automatically after test finished, and it is manual filing. It can display maximum force, yield strength, compressive strength, tensile strength, elongation, peel interval maximum, minimum and average, etc.
7. User can set parameters of product material such as length, width, thickness, radius, area and so on.
8. Many languages random switching: Simplified Chinese, Traditional Chinese, and English.

