

## Computer Servo Material Tensile Compression Strength Testing Machine With PC Control



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#### 607S haida universal test machine.pdf

#### Tensile strength tester

Items	Specification
Capacity (optional)	2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000kg
Unit (Switchable)	G, KG, N, KN, LB
Load Resolution	1/100,000
Load Accuracy	< ± 0.5%
Stroke (exclude the grips)	400 500 600 mm (can be adjusted higher by requirements)
Test speed	0.1~500 mm/min Selectable
Effective Width	400 mm
Operation Mode	Controlled by PC
Weight (exclude the grips)	130 Kg
Display	PC (can be programmed any of the customer's data )
Motor	AC Servo Motor
Dimension(LxWxH)-Main Unit	1200x600x1500cm
Dimension of the testing space	400x400x700mm
Testing width	40cm ( can be widened by requirements)
Power	1#, 220V, 10A
Rotation method	high precision ball screw rod

Fixture	can be customized stretching and compressing fixture
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**Temperature control chamber:**

Items	Specification
Temperature range	-40°C ~150°C
Control method	P.I.D Automatic calculation
Humidity range	20%~98%
Tem & Hum accuracy	±0.5°C, ±2.5% RH
Temp& Humid regularity	±2°C, ±3% RH
Compressor	France Tecumseh
Cooling Speed	1 °C/ min
Counter	LED,0~9999.99
Inner material	SUS 304 Stainless steel
Inner Chamber size	(LxWxH)40x40x70cm (can custom)

**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.

**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.

