



## Electronic Double Column Universal Tensile Strength Testing Machine for Plastic / Rubber / Fabric

---



---

**Accuracy:**  $\pm 0.5\%$

**Capacity:** 500, 1000, 2000KG

**Elongation Accuracy:** 0.001mm

**Max. Stroke:** 1000mm (including Fixture)

**Motor:** Panasonic Servo Motor

**Max. Force:** 2000 Kg (20KN)

---

**Double Column Universal Tensile Strength Testing Machine for Plastic / Rubber / Fabric**



### 1. Briefly Introduce:

These series of Tensile testing equipment is used to test tension, compression, shearing force, adhesion, peeling force, tear strength,...etc. of specimen, semi-product and finished product in the field of rubber, plastic, metal, nylon, fabric, paper, aviation, packing, architecture, petrochemistry, electric appliance, automobile,...etc. , which are the basic facilities for input quality control (I.Q.C), Quality Control (Q.C.), Physical Inspection, Mechanics Research and Material Development.

### 2. Design criteria

ASTM D412, ISO 37-2005, JIS K6251, DIN 53504-2009: **Tensile Strength & Elongation Test**

ASTM D1149-07, ASTM D1171-99, ISO 7326, ISO1431-1, DIN 53509-1: **Ozone Aging Test**

ASTM D624-00, ISO 34-1: **Tearing strength Test**

ASTM D395-03, ISO 815-1: **Compression Set Test**

ASTM D2240-05, ISO 7619-1, JIS K6253, ISO 868: **Shore Hardness Type A/D**

ASTM D573, ASTM D865, ISO188 Method B, DIN 53508 **High/ Low Temperature Test**

ISO 2781(Method A): **Density Test**

ASTM D5289-95/ ISO6502: **No-Rotor Rheometer/Curemeter**

ASTM D1646:**Mooney Viscometer**

### Applications

1. **Tested sample:** laminated materials, wood, leather, rubber & plastic, metal material, 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.

### 3. Main Technical Parameter

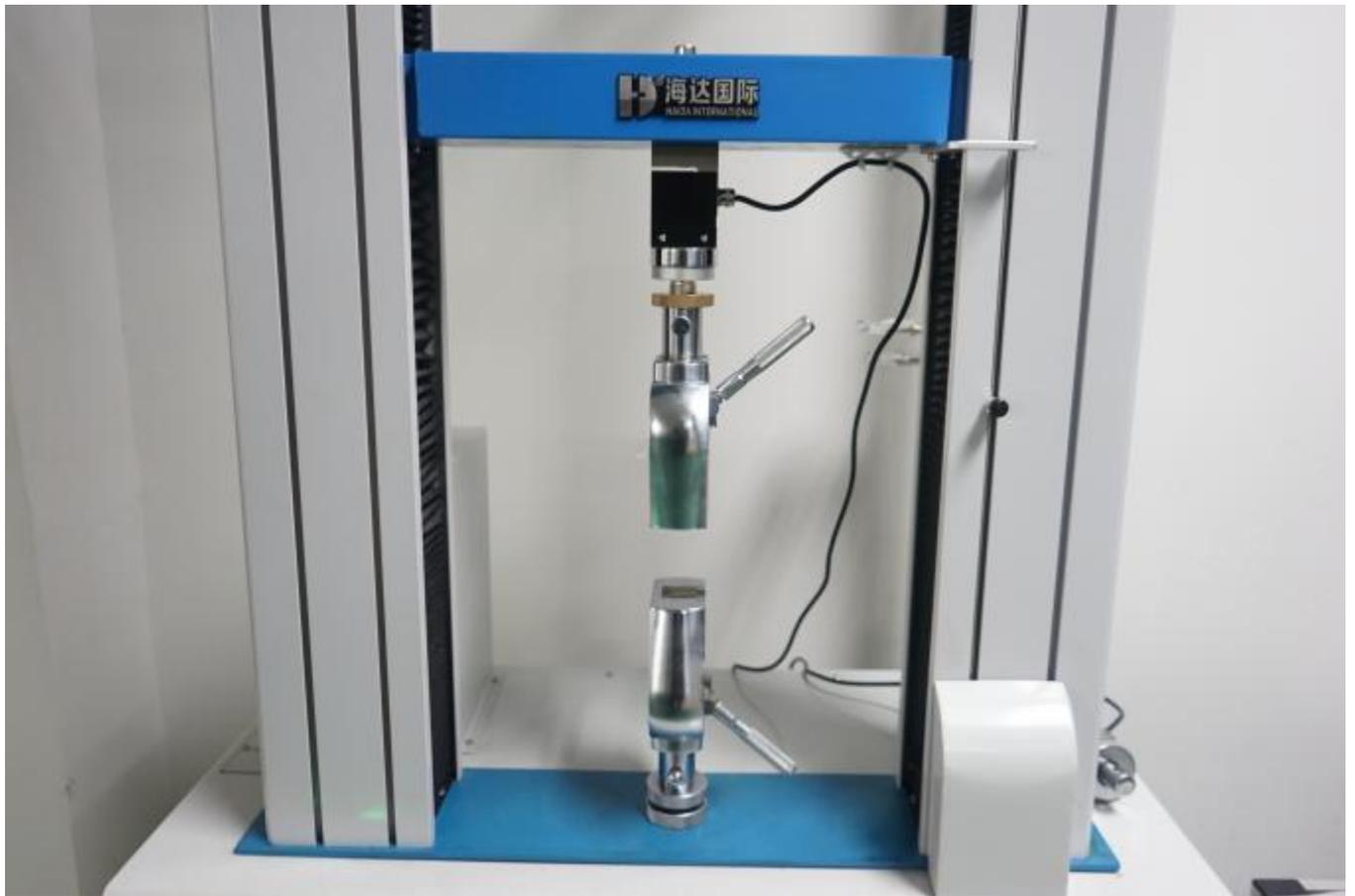
Item	Description
Max. Force	2000 kg (20KN)
Load cell	Germany brand load cell for high accuracy
Control system	PC with windows 7 system

Motor	Panasonic servo motor w/ DC variable speed drive system, high-precision mechanical ball screw rod
Force reading	kgf, lbf, N, KN, T etc
Stroke	1100mm including fixture
Load cell Resolution	1/250,000
Load Precision	within $\pm 0.5\%$
Test speed	0.01~500mm/min (adjustable)
Software	TM 2101
Curves display	Load- elongation, Elongation-time, Time-elongation, Stress-strain
Data display	Max. force, speed, sample information, strength(Kpa, Mpa, N/mm, N/mm <sup>2</sup> ) etc...
Safety features	E-Stop Over-load protection Upper and lower limit switches Load sensor with automatic retreat

#### 4. Features

1. Adopting windows platform, and all the parameter settings can be processed in the dialog box, and it operates easily;
2. Using a single-screen operation; do not need to switch the screen;
3. With three languages in Simplified Chinese, Traditional Chinese and English, the software interface can be switched easily
4. The pattern of Test reports can be self-designated; test data can be displayed directly in the main screen;
5. Choosing translational, comparative mode at the same time to make a number of curve data comparison;
6. With a variety of measurement units, Measure In Imperial & Metric are switchable;
7. With self-return & auto-correction function;
8. With automatic magnification function, in order to achieve the most appropriate size of the graphics;
9. With the user-defined Test methods; with experimental data analysis function;
10. High quality, accurate and reliable models with reasonable price.





**Optional Accessories:**

Clamps

- Plastic & Rubber Wedge Clamp (1000kg)
- Metal Wedge Clamp(2000kg)
- Bend Clamp
- Compression Plate

**Load cell:**

- 500kg load cell
  - 100kg load cell
- Calibration Certificate  
Calibration Device