

Universal Test Machine

EQUIPMENT DETAILS



Panasonic Servo Motor



Germany Brand TECSIS Load Cell – S Type

## GENERAL SPECIFICATIONS

Estimated Packaging Dimensions: (W\*D\*H) 630\*630\*1400mm

Power supply source: single-phase, 220V±10%, 50/60Hz (can be appointed)

Estimated Gross Weight: 120kg

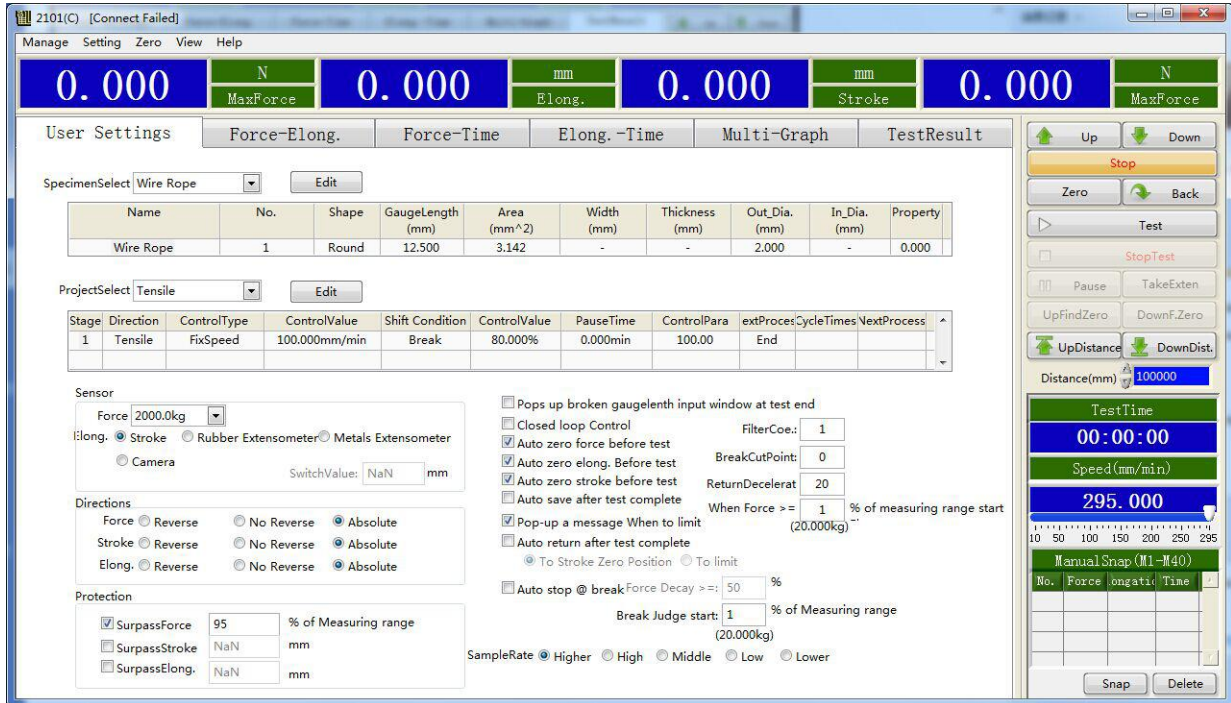
## STANDARD FEATURES

Item	Description
Frame capacity	200kg
Load cell brand	Germany brand load cell for high accuracy 200kg (5,10,50,100kg are optional)
Load accuracy	0.5% F.S
Control system	LCD with build-in printer /PC with windows 7 system
Motor	Panasonic servo motor w/AC variable speed drive system, high-precision mechanical ball screw rod
Force reading	kgf, lbf, N, KN, T etc
Vertical test space	900mm including fixture
Test speed	0.1~500mm/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

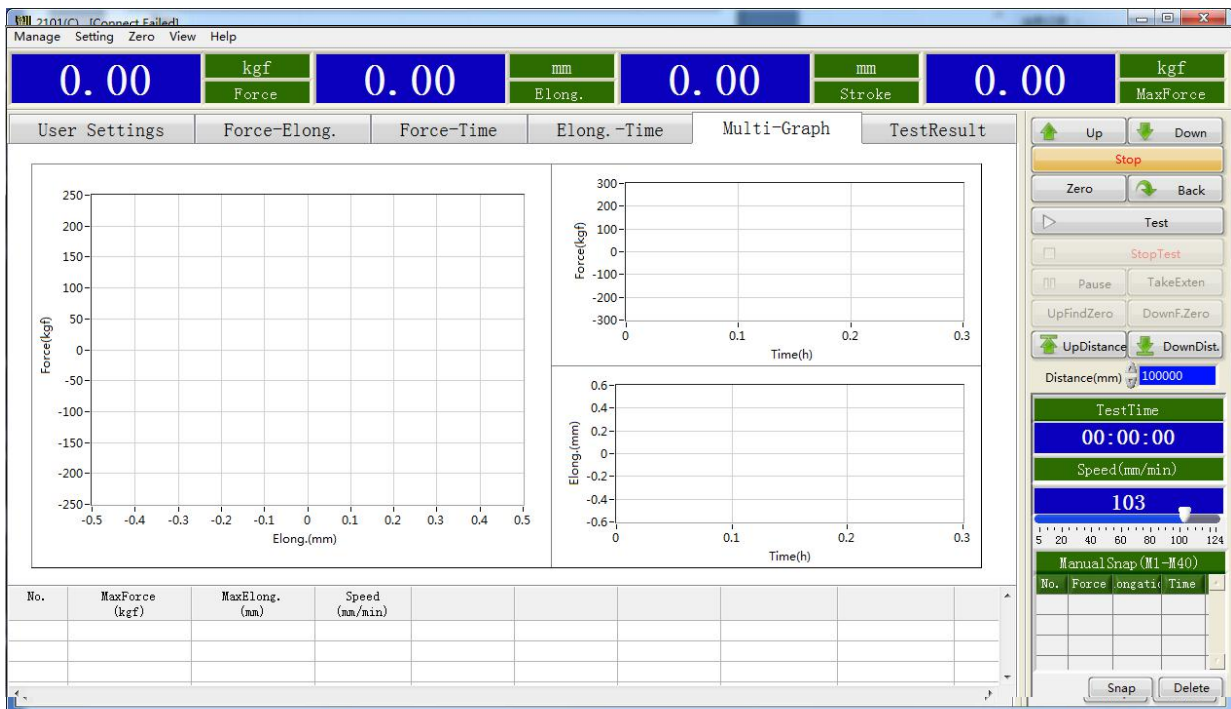
## APPLICATIONS

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.

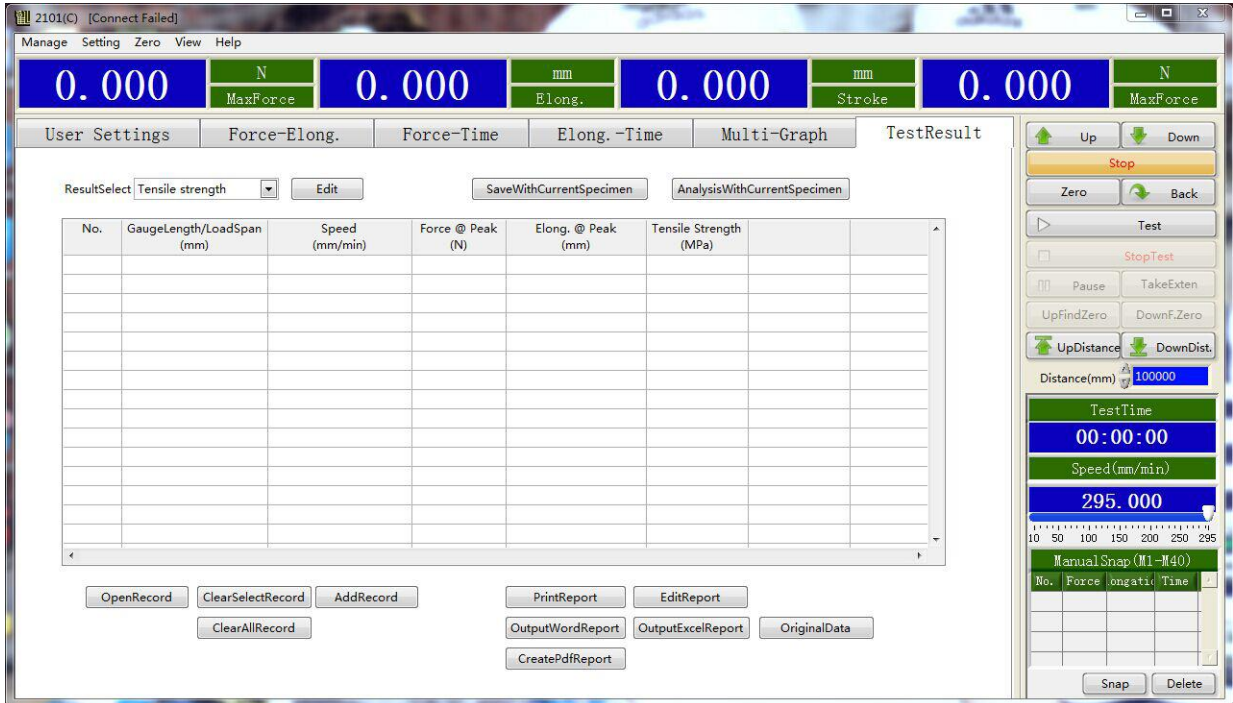
## SOFTWARE – TM 2101



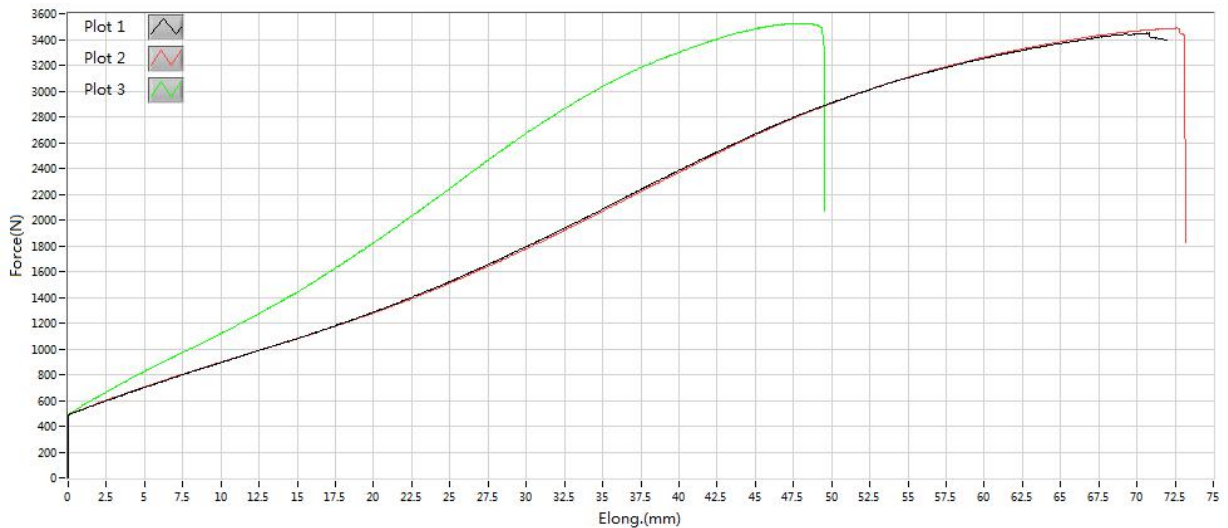
User setting page



Curves display picture



Test result picture



Test curve page

## HAIDA TEST EQUIPMENT TEST STANDARDS FOR SHARING

### Adhesives Tape/Pressure Sensitive Tape

- EN 1719: **Loop Tack Test**
- ASTM D3654: **Shear Adhesion Test**
- ASTM D3759: **Tensile & Elongation Test**
- FTM: **180&90 Degree Peel Test, Loop Tack**
- EN 1939, ASTM D3330: **180&90 Degree Peel Test**
- ISO 11339, ASTM D1876, ASTM F2256: **T-type Peel Test**

### Adhesive

- ASTM D903: **Peel & Stripping Test**
- ASTM D1002: **Shear Strength (Adhesive for metal to metal)**
- ISO 4587: **Tensile lap-shear strength (Rigid-to-rigid bonded assemblies)**

### Film/Plastic Film

- ASTM D882: **Tensile Test**
- ASTM F1306: **Puncture Test**
- ASTM D1938: **Trouser Tear Test**
- ASTM D2732: **Thermal Shrinkage Test**
- ASTM D1709, ISO 7765-1: **Free-Falling Dart Method**
- ASTM D1894: **Static and Kinetic Coefficients of Friction**
- ASTM D1424, ASTM D1922, ISO 1974: **Elmendorf Tearing Strength Test**

### Plastic& Plastic Pipe

- ISO 180: **Izod Impact Test**
- ISO 9966: **Ring Stiffness Test**
- ISO 179: **Charpy Impact Test**
- ISO 4892: **Weathering Aging Test**
- ASTM D3163: **Plastic Lap-Shear Test**
- ISO 4422, ISO 3127: **Pipe Impact Test**
- ASTM D4565, ISO 11357, EN 728: **DSC/OIT**
- ISO 75: **Heat Deflection Temperature (HDT)**
- ASTM D1598: **Hydrostatic Pressure and Burst Test**
- ISO 1133, ASTM D1238: **Melt Flow Rate Test (MFR/MVR)**
- ASTM D790, ISO 178, ISO 14125, ASTM D6272: **Bend Test**

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- ISO 306, ASTM D1525: **Vicat Softening Temperature (VST)**
  - ASTM D882, ASTM D 638, ISO 527, ASTM D1708: **Tensile Test**

## Rubber

- 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**

## Foam

- ASTM D3574 Test E, ASTM D1623, ISO 1798: **Tensile Test**
- ASTM D3574 Test F, ISO 8067: **Tear Test**
- ASTM D3574 Test A: **Density Test**
- ASTM D3574 Test B1, ISO 2439: **IFD Test**
- ASTM D3574 Test H: **Resilience (Ball Rebound) Test**
- ASTM D3574 Test I3: **Dynamic Fatigue Test by Constant Force**

## Metal

- ASTM E8, EN 10002-1, ASTM A370: **Tensile Test**
- ASTM A370: **Bend Test**
- ASTM B-117, ISO 3768: **Salt Spray Test**
- ISO 6508: **Rockwell Hardness Test**
- ISO 6507: **Vickers Hardness Test**
- ISO 6506, ASTM E10-14: **Brinell Hardness**
- ASTM E23, ISO 148: **Impact Test**



## QUALITY ASSURANCE

### **1. The guarantee period with FOC within 1 year (not including expendable parts cost and transport & travel fees)**

1.1 During the guarantee period, Haida shall supply free maintenance or replacement for the damaged part (just for non-expendable part) caused by non-human reasons;

1.2 If any quality problems occur within the guarantee period, and Haida must provide on-site service, the transport and travel expense shall be borne by buyer;

1.3 If any big quality problems occurs out of the guarantee period, Haida will provide a maintain service, the transport and travel expense shall be borne by buyer, also charge for a favorable price for new parts;

1.4 Haida will provide a lifetime favorable price to the buyer for expendable & non-expendable parts used in system operation, equipment maintenance;

### **2. The following conditions need to be paid reasonably even in the guarantee period:**

2.1 Natural disaster

2.2 Operating mistakes

2.3 Voltage is not fit for our manual

2.4 Uninstall without our guides

2.5 Damaged for borrowing to others

2.6 Damaged for without authorized machine modification

2.7 Damaged for without authorized calibration

2.8 Without authorized transshipment mistake

### **3. Attentions: the machine cannot be used following situations:**

3.1 Vibration, rocking place.

3.2 Direct sunlight.

3.3 Hot, dusty, damp places.

3.4 To ensure safe, AC supply of the machine should be well grounded.

3.5 Do not use strong solvents (such as: benzene, nitro oil) washing machine.

3.6 Do not inject water and debris into the machine to prevent damage to electrical components and electrical shock.

3.7 Machine's disassembly and debugging can only be measured by the State Department approved the units and the company, other people not allowed to overhaul.

## FACTORY DETAILS



**Cutting machine**



**Bending machine**



**In Stock**



**In Stock**



**Show Room**



**Show Room**



## ABOUT HAIDA



## Our Mission: To be your lab consultant

We enable our customers to accelerate their expertise in developing World Class Products. We are providing high quality of testing consultant service on different industry with our equipment.

## PART OF OUR COOPERATED PARTNERS

