Universal Tensile Test Equipment Series

Max. Force Capacity: 50N~1000KN

Haida Equipment
provides professional laboratory solutions

HAIDA INTERNATIONAL EQUIPMENT CO., LTD

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The **Haida universal testing machine** is mainly used for testing the mechanical properties of metal and non-metallic materials. Universal testing machines are ideal for industrial and mining enterprises, scientific research units, colleges and universities, engineering quality supervision stations and other departments.

**Test Standards:**

ASTM E8, ASTM D882, ASTM D3330, ASTM D3574, ASTM F88, ASTM F904, ISO 527, JIS P8113, JIS K6854, QB/T 2358, BS 5131, QB/T 1130, etc.

**Test Type/test standards:**

Tensile strength, Elongation Rate, Peel force, Tear force, Puncture, Adhesive strength, Pull out, Compression...

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Force Capacity(Optional)</th>
<th>Vertical Test Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-B601</td>
<td>200N,500N</td>
<td>700mm</td>
</tr>
<tr>
<td>HD-B602</td>
<td>200N,500N,1KN,2KN</td>
<td>900mm</td>
</tr>
<tr>
<td>HD-B609</td>
<td>20N,100N,200N,250N,500N,1KN,2KN</td>
<td>900mm</td>
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<tr>
<td>HD-B609-D</td>
<td>20N,50N,100N,200N,250N</td>
<td>300mm</td>
</tr>
<tr>
<td>HD-B617</td>
<td>100N,200N,300N,500N,1KN,2KN,5KN</td>
<td>1400mm</td>
</tr>
<tr>
<td>HD-B603</td>
<td>500N,1KN,2KN,5KN,10KN,20KN</td>
<td>1200mm</td>
</tr>
<tr>
<td>HD-B604</td>
<td>50N,100N,200N,500N,1KN,2KN,5KN,10KN,20KN</td>
<td>1200mm</td>
</tr>
<tr>
<td>HD-B615</td>
<td>10KN,20KN,30KN,50KN</td>
<td>1000mm</td>
</tr>
<tr>
<td>HD-B612</td>
<td>100KN,200KN,300KN</td>
<td>650mm</td>
</tr>
<tr>
<td>HD-B616</td>
<td>300KN,600KN,1000KN</td>
<td>600mm</td>
</tr>
<tr>
<td>HD-B616S</td>
<td>300KN,600KN,1000KN</td>
<td>600mm</td>
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<tr>
<td>HD-B607-S</td>
<td>100N,200N,500N,1KN,2KN,5KN,10KN,20KN,30KN,50KN</td>
<td>1300mm</td>
</tr>
</tbody>
</table>

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

Rubber
- 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 Test
ASTM E23, ISO 148: Impact Test

Software and Curves
The TM2101 software is designed purposely for computer controlled electronic universal testing machine, used for tension, compress, bend, shear, tearing and peel test. With the personal computer and interface plate, it could collect, save, process and print test result. Further it can calculate multiple parameters, i.e. maximum force, yield strength, average peel force maximum deformation, yielding point and elastic modulus; this system is featured in curve process, multi-sensor support, image interface, flexible data process and powerful system function.
Tension machine part of fixture sample.

More jig can be customized according to the test sample.