100T Hydraulic Universal Testing Machine

GENERAL SPECIFICATIONS

Estimated Packaging of machine dimension: 1100*900*2600cm
Estimated Packaging of control cabinet: 650*900*1300cm
Estimated Gross weight of machine: 2200KG
Estimated Gross weight of control cabinet: 240KG
Power supply source: three-phase, 380V, 50Hz
STANDARD FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame capacity</td>
<td>100T</td>
</tr>
<tr>
<td>Measure range</td>
<td>4%-100%F.S</td>
</tr>
<tr>
<td>Load cell brand</td>
<td>Oil pressure sensor, China brand 100T (30T, 60T are optional)</td>
</tr>
<tr>
<td>Load accuracy</td>
<td>1% F.S</td>
</tr>
<tr>
<td>Available tensile stroke</td>
<td>550mm</td>
</tr>
<tr>
<td>Available compression stroke</td>
<td>500mm</td>
</tr>
<tr>
<td>Test speed</td>
<td>50mm/min</td>
</tr>
<tr>
<td>Round sample diameter</td>
<td>Φ13-Φ60mm</td>
</tr>
<tr>
<td>Flat sample thickness</td>
<td>0-40mm</td>
</tr>
<tr>
<td>Flat sample width</td>
<td>125mm</td>
</tr>
<tr>
<td>Horizontal test space</td>
<td>540mm</td>
</tr>
<tr>
<td>Compression diameter</td>
<td>Φ120mm</td>
</tr>
<tr>
<td>Operation control</td>
<td>Hydraulic</td>
</tr>
<tr>
<td>Display</td>
<td>PC</td>
</tr>
<tr>
<td>Curves display</td>
<td>Load- elongation, Elongation-time, Time-elongation, Stress-strain</td>
</tr>
<tr>
<td>Data display</td>
<td>Max. force, speed, sample information, strength etc...</td>
</tr>
<tr>
<td>Safety features</td>
<td>E-Stop</td>
</tr>
<tr>
<td></td>
<td>Over-load protection</td>
</tr>
<tr>
<td></td>
<td>Upper and lower limit switches</td>
</tr>
<tr>
<td></td>
<td>Load sensor with automatic retreat</td>
</tr>
</tbody>
</table>

APPLICATIONS

1. **Tested sample**: wood, steel sheet, steel rod, wire, screw and other metal materials.
2. **Different test with different grips**: tensile, bend, compression, shear test.
3. **Software** can issue **report** with results for max. force, elongation, tensile strength, compression strength, bend strength, etc.
SOFTWARE – MAXTEST

[Image of software interface]

[Image of specimen information]

Sample ID: NaN
TestDate: 2005-5-0
Operator: vrt
Type: Circle
Size (mm): 10
So (cm²): 70.54
Lo (mm): 50
Lx (mm):
A (S):
So (cm²):
Z (S):
Fm (M):
SOFTWARE – TEST REPORT

Title: Metal Tensile Test Report

Head: 2006-05

Foot: 2006-05

Type: Load-Elongation

Load(kN) vs Load-Extension Curve

<table>
<thead>
<tr>
<th>Client</th>
<th>Date Tested</th>
<th>Sample ID</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12/23/2016</td>
<td>Test Set</td>
<td>Tensile Test</td>
</tr>
<tr>
<td></td>
<td>Circle</td>
<td>Size(mm)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>44.40</td>
<td>Fm(MPa)</td>
<td>1571</td>
</tr>
<tr>
<td></td>
<td>33.94</td>
<td>Break(MPa)</td>
<td>1200.57</td>
</tr>
</tbody>
</table>
DIFFERENT CLAMPS FOR CHOICE

TENSILE TEST CLAMP

COMPRESSION CLAMP

THREE POINT BEND CLAMP
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**
- 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. Attention: 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.
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