

Tensile Hydraulic Universal Testing Machines For Compression / Bending / Shearing Test



Accuracy:	±1%	Power:	Electronic
Sensor:	Load Cell	Туре:	Universal Tensile Testing Machine
Port:	6KN-300KN	Display:	Computer Control And Display

Tensile Hydraulic Universal Testing Machines For Compression / Bending / Shearing Test

616 haida universal test machine.pdf

Structure introduction:

Computer Control Hydraulic Universal Tensile Testing Machine is designed to test the ferrous materials for structural values such as yield strength and tensile strength. Apart from tensile tests, Universal Test Machines can also be used for compression tests up to the capacity of the machine.

Load cell is used for load measurements. Strain measurement is done by the electronic displacement transducer built in the machine if required external extensometer fitted to the specimen also can be used for strain measurement. Strain measurements can be done directly from the extensometer fitted to the specimen.

Main specifications:

300KN		
6KN-300KN		
±1%		
250mm		
800mm(including piston stroke)		
700mm(including piston stroke)		
Computer control and display		
ф6-ф26mm		
0-15mm		
500mm		
200x200mm		
450mm		
140mm		

Dia. of bending roller	30mm
Clamping mode	Hydraulically
Transducer	load cell
Deformation measuring	YYU-10/50
Dimensions of load frame	990×600×2435mm
Dimension of controller	1140×700×930mm
All weight	2800kg

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.

Load frame

Load frame photo design

- Rigid four column construction & compact design
- Dual workspace design : upper for tensile test , lower for compression and bending tests
- Movable lower crosshead providing exceptional easy operation
- Accurate force measurement through precision load cell
- With open hydraulic wedge grips for easy change of inserts and specimen loading
- Integrated displacement photoelectric encoder
- Cylinder mounted at the bottom of the machine

Characteristic of principle of hydraulic pressure

- Adopt import high pressure pump, lower noise, steady pressure
- Dynamical Systems and console integration design, easy to operate, save testing space
- The surface by spray treatment, appearance beautiful

Picture of principle of hydraulic pressure









Brief introduction STC300 Control System

STC300 all-digital closed-loop control system has many advanced features and technological innovation, mainly reflected in:

- To achieve the test force, the specimen deformation, piston displacement and testing process, the four closed-loop control;
- Data acquisition system is composed of 4-way high-precision 24-bit A / D converter channels. The maximum resolution of up to 1 / 300000, full regardless of section ;
- Use BB, AD, Xilinx and other original brand-name integrated device, all-digital design;
- Meet the PCI standard, computer and installation of automatic identification, ;

• Electronic measurement systems without analog components such as potentiometers to ensure interchangeability for easy maintenance and replacement.

Brief introduction MaxTest software

