

Introduction

The machine dedicated to the mechanical properties of the steel strand test, the machine is equipped with computer, HP printer, large gauge electronic extensometer, photoelectric encoder and a full-featured universal test software, can easily complete the test function; comes with a strand dedicated lengthened jaws to ensure that the sample break in the middle. So as to further improve the test success rate. The test results can be queried and print (force - displacement, force - deformation, stress - displacement, stress - deformation

force - time distortion - time) six kinds of curves and related test data, software self-test function, self-diagnostic fault please sees software instructions Determination strand tensile strength, non-proportional extension strength, elastic modulus, elongation and other mechanical properties. Ideal testing equipment for the department of industrial and mining enterprises, scientific research institutes, colleges and universities, engineering quality supervision station.



NOTA: las imágenes y características pueden cambiar sin previo aviso.

Host Machine

Host using the fuel tank mounted under the host, stretching space located above the host, compression test space located between the beams and the bench under the host

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Transmission system

Lower beam lift using motor through reducer, chain drive mechanism, screw vice transmission, tensile and compression adjustment of space.

Hydraulic system

The Hydraulic oil within the tank through the motor drive the high pressure pump into the oilway, through the one-way valve, high pressure filter, pressure differential valve group, the servo valve, into the cylinder. Computer sends out control signal to the servo valve, the openings and the direction of the control servo valve, to control the flow of the oil into the cylinder, and realize the control of constant speed test force, constant displacement, etc.

Control system

- 4.1 main interface integrates multiple functions.
- 4.2 software design for test operation fast and convenient. Adopt special design method to meet the needs of large batch process test.
- 4.3 grading management system, the system parameters are open to expert users, both to ensure the use of the flexibility of the system, and can make the test system is safe and reliable to use.
- 4.4 main menu
- 4.5 with electro-hydraulic servo closed-loop control, data processing, data analysis.
- 4.6 complete file manipulation functions, such as test reports, test parameters, system parameters can be stored in files.

Safety protection device

5.1, when the test force exceeds 3% of the maximum test force, overload protection, pump motor stop

5.2, when the piston rises to the upper limit position, the stroke protection, the oil pump motor stop

Main performance indicators

- | | | |
|-----|--|--|
| 1. | Maximum test force _____ | 1000kN |
| 2. | Columns _____ | 6 columns |
| 3. | Test force measurement range _____ | 2%~100% |
| 4. | Test force value relative error _____ | ≤indicating value ±1% |
| 5. | Resolution of test force _____ | 0.01kN |
| 6. | Displacement measurement resolution _____ | 0.01mm |
| 7. | Deformation precision _____ | 0.01mm |
| 8. | Max. Tensile space _____ | 900mm |
| 9. | Piston stroke _____ | 150mm |
| 10. | Round specimen jaw clamping diameter _____ | 15.20mm (Other specifications reprovision) |
| 11. | Piston max. movement speed _____ | 50mm/min |
| 12. | Clamping methods _____ | Automatic stepping up |
| 13. | Exterior size of host _____ | about 890×660×2600mm (mm) |
| 14. | Exterior size of oil source cabinet _____ | 1120×600×850 (mm) |

System configuration list

1. Testing machine host oil cylinder under mounted host	_____	1 set
2. Pressure sensor	_____	1 piece
3. Servo control oil source	_____	1 set
4. Electro-hydraulic servo valve	_____	1 set
5. Servo control system	_____	1 set
6. Electrical control system	_____	1 set
7. Extensometer : YYU-10/50	_____	1 piece
YYU-10/200	_____	1 piece
8. Optical encoder	_____	1 piece
9. Computer Lenovo	_____	1 set
10. Printer Ink jet printer	_____	1 set
11. Standard attachments		
Steel strand fixture	_____	15.20mm
Steel strand fixture 15.20mm	_____	1 set
Ordinary metal fixture:		
(1) Round jaw: 13-26mm, 26-40mm, 40-60mm(max. opening 63.5mm)	_____	each one set
(2) Steel ribbed bar round jaw: 13-26mm, 26-40mm, 40-60mm	_____	each one set
(3) Flat jaw: 0-20mm, 20-40mm	_____	each one set
(4) Compression fixture Φ 205mm	_____	1 set
(5) Bending fixture [indenter Φ 40mm]	_____	5.20mm

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