



Product Description

RT-208 Hydraulic universal material testing machine



Introduction:

This machine is dedicated to test the mechanical properties of prestressed steel strand, The machine is equipped with Lenovo computers, HP printers, large gauge electronic extensometers, optical encoder, and full-featured general-purpose test software, you can easily complete the test function, Besides, equipt with a specialized steel strand extension to ensure that the specimen middle fracture, further improve the test success rate. You can check and print test results (force - displacement, force - deformation, stress - displacement, stress - deformation, force - time, distortion - time) six curve and related test data with the software self-test function that can self-diagnose problems, detail please review software instructions. Can test strand tensile strength can be measured to provide non-proportional extension strength, elastic modulus, elongation and other mechanical properties. It is industrial and mining enterprises, research institutes, universities, engineering quality supervision station ideal for test equipment and other departments.

Host::

Adopt oil cylinder under mounted type host, stretching space is at the top of host, compression test space is between the at the work table and the crossbar .

Transmission system:

Down beam go up and down by the use of motor reducer, chain drive mechanism, vice screw drive, to achieve tensile, compression of space to adjust.



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Hydraulic System:

The oil tank is sucked through the filter screen and be inhaled pump oil ,through the petroleum pipeline of oil pump transport to oil valve,When the hand wheel to send off the oil, due to the role of oil will push the piston, the oil from the return pipe to tank, when the hand wheel to open get the oil, then the working fluid into the fuel tank through the tubing, pressure tubing through and through oil return valve to tank.

Control system:

- Support for tensile, compression, shear, bending and other tests;
- Support open editing test, editorial standards and editorial procedures, and to support export import testing, standards and procedures;
- Support custom test parameters;
- Adopt an open statement in the form of EXCEL, to support user-defined report format;
- Print the query testing results flexibility, support for printing multiple samples, custom sorting print projects;
- Procedure supports hierarchical management levels (administrator, tester) user management rights;

Safety protection device:

- When the test force more than 3% of the maximum test force, the overload protection, oil pump motor shut down.
- When the piston rises to the upper limit position, stroke protection, pump motor shut down.

Fixture:

Whole set fixtures include:stretch fixture.

Main performance technical specifications:

Max load	60kN	1000kN
Test force measuring range	50~1000kN	
Test Force showed the relative error	≤indicating value±1%	
Test Force Resolution	0.03kN	
Displacement measurement resolution	0.01mm	
Deformation measurement accuracy	0.01mm	
Maximum tensile test space	1000mm	
Compression space	602mm	
Piston stroke	150mm	
Diameter of round specimen clamp jaw	15.20mm(Other specifications reprovision)	
Maximum move speed of piston	50mm/min	
Clamping method	Automatic clamping	
Host machine outside size mm	720×580×2350	890×660×2500



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Force measurement cabinet outside dimensions mm	1000×700×1400	1000×700×1400
Space stretching from the two pillars distance	450mm	550mm
Net weight	2600KG	3000KG