



Jinan Victory Instrument Co., Ltd

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Single Test Space Tensile Strength Testing Machine Side Action Hydraulic Operated Tensile Grip (600kN, 1000kN, 2000kN, single test zone, 0.5 class)

Big advantages:

- ✧ Side action grip, higher gripping performance without any initial gripping force.
- ✧ Piston moves up and down quickly, save time for continues test
- ✧ Lower test space, it is convenient for operator for specimen installation, high testing efficiency



VICTORY TEST- Your reliable testing solution



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1. Applications:

WAW-L Series Single Test Space Computerized Tensile Testing Machine is a single test space on the lower position of load frame, with oil-cylinder mounted on the top position. Due to large and lower test space, quickly loading speed, it makes it more flexible for tensile testing of large strength metal materials, especially suitable for long length specimen, like deformed steel bar, etc. It greatly improves the test efficiency, it is very popular in some big steel and iron manufacturing companies for high testing frequency.

It adopts four column structure, high stiffness. It uses high accuracy load cell to measure testing force, encoder to measure displacement of piston stroke, electric extensometer to measure extension. Close loop control software can auto get test ultimate tensile strength R_m , yield strength R_{eH} , max. testing force F_m , non-proportional extension $R_{p0.2}$, elongation rate $A\%$, etc testing results. In testing standard, it conforms to international standards, like BS 4449, ASTM A615, ISO6892, ASTM E8, JIS Z2241, etc.

2. Main specifications:

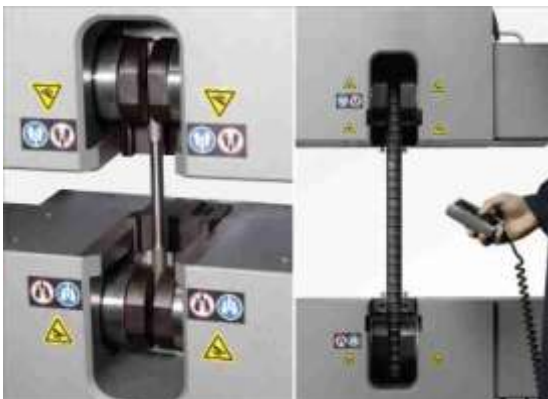
- 2.1 Max. Test force: 2000 kN (or 600kN, 1000kN)
- 2.2. Measurement range of accuracy: 1%-100%;
- 2.3 Testing force accuracy: $\pm 0.5\%$ of reading value
- 2.4. Control range of stress rate: 1-60MPa/S;
- 2.5. Adjust range of test stress rate: $1\text{N/mm}^2\text{S}^{-1}$ - $60\text{N/mm}^2\text{S}^{-1}$;
- 2.6. Adjust range of test strain rate: 0.00025/S-0.0025/S;
- 2.7. Precision of deformation measurement: $\pm 0.5\%$;
- 2.8. Precision of displacement measurement: $\pm 1\%$;
- 2.9. Control range of displacement rate: 0.5mm/min-200mm/min;
- 2.10. Maximum tensile space: 650mm;
- 2.11. Clamping diameter of rebar: $\phi 20$ - $\phi 50$ mm;
- 2.12. Clamping thickness of flat specimen: 0-50mm;
- 2.13. Diameter of upper and lower plate: 300x450mm;
- 2.14. Piston stroke: 650mm;
- 2.15. Deformation measurement: extensometer gauge length: 200mm; extension: 100mm;
- 2.16. Power supply: 3-phase 4-wire, 380V, 50 Hz, 7.5kW
- 2.17. Dimension: Host machine 1280x880x3700(mm) Power pack: 850x1060x1220(mm)
- 2.18. Weight: Host machine 7500kg, Power pack: 800kg.

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3. Structure of load frame:

- It adopts 4 columns structure, high stiffness.
- Oil-cylinder is mounted on the top position, the large impact resistance can be well absorbed by the big oil cylinder. It can well protect the whole stiffness of the load frame.
- Bidirectional differential cylinder provides bidirectional control of tension and compression in one single space. Large piston stroke can realize quickly adjust test space. After finish one test, quickly goes back preparing for second test. It improves testing efficiency.
- Guidance of piston rod protects cylinder from lateral force, improve the working life of sealing components.
- Advanced side action hydraulic tensile grips provide high gripping performance for high strength and high hardness materials without any initial gripping force.
- The load cell directly measure the testing force, high accuracy.

4. Side action hydraulic tensile grip:



- Compared with wedge type hydraulic grip, this side action hydraulic grip has advantage of gripping the sample without any initial gripping force.
- Excellent axial alignment avoids lateral loading.
- Cylinders are inserted inside the grip body; dual direction clamping can ensure good proper alignment regardless of sample thickness varying.
- Piston is made of alloy steel with high hardness and abrasion resistance.

To learn more about this testing equipment, please contact us- **Email: sales@victorytest.com**