

HST GW-H300/25P

Hydraulic steel plate bending test machine



Product introduction

HST GW-H300/25P hydraulic steel plate bending test machine is used to perform bending tests on metal bars, plates, and threaded steel for construction to determine their bending plastic bending ability.

Applicable standards

GB/T 232-2024 "Metallic Material Bending Test Method"

Equipment features

1. This machine adopts a vertical structure, with the oil cylinder on top, and the bending test is performed on the work surface, which is quick to operate.
2. It adopts hydraulic loading, and the hydraulic cylinder adopts a bidirectional cylinder loading, which is fast and efficient. The front end of the piston is equipped with a bending head socket, which can quickly and conveniently replace the required cold bending head.
3. The bending support point and the front end of the piston of this machine have a large adjustment distance, and are equipped with a reverse bending head, which can perform reverse bending tests.
4. The span is manually adjusted by the bidirectional screw rod to make the bending support move forward and backward synchronously to adjust the bending support distance, and a 180° bending test can be performed.
5. This machine has a compact structure and strong rigidity. The adjusting screw is placed on the back side of the support slider slot to prevent the oxide scale from falling into and damaging the screw.
6. This machine is equipped with an angle disc indicator at the front of the test bench to display the bending angle.
7. The electrical appliances of this machine perform four-point limit control on the oil cylinder and oil source, with double protection, so the equipment is safer and more reliable.

Structural principle

1. The steel bending test machine is mainly composed of a frame, an outer cover, a workbench, an oil cylinder, a hydraulic station, a bending jaw, a bending core, an adjustment mechanism, an indicator mechanism, an electrical control system, and safety protection. It adopts a vertical structure design, and the bending test is operated on the workbench, which is convenient, fast and flexible to operate.
2. It adopts hydraulic bidirectional cylinder loading, with fast loading speed and high efficiency. The front end of the piston is designed with a bending core quick-change mechanism to quickly replace bending cores of different specifications.
3. The support distance adjustment mechanism, bending core stroke adjustment, bending angle indicator mechanism, and reverse bending pressure head designed with proprietary technology make the positive and reverse bending tests accurate, stable and reliable.
4. The bending jaws can be controlled to advance and retreat synchronously by manually adjusting the bending fulcrum distance, and a 0-180° bending test can be performed.
5. The unique design of the automatic oxide scale recovery device can effectively recover the oxide scale.
6. The operation is convenient and fast.
7. The electrical appliances of this machine perform four-point limit control on the oil cylinder and oil source, with double protection, so the equipment is safer and more reliable.
8. During the reverse bending test, this machine is designed with shortcut keys, which is convenient and quick to operate.

Main technical indicators

1. Bending angle range: 0~180 (175~180 degrees)
2. Maximum system working pressure : 25Mpa
3. Maximum thrust: 300kN
4. Maximum bending specimen size: Maximum width 70mm, maximum thickness 25mm
(Bending specimen size should be sampled according to the maximum bending force, and the maximum bending force shall not exceed the maximum thrust of the equipment)
5. Manual adjustment of bending slider spacing : 360mm
6. Overall dimensions Approximately: 1100×700×1900mm
7. Machine weight Approximately : 1500Kg

Main configuration of the testing machine

Name	Quantity	Manufacturer
Testing machine mainframe (with safety net)	1	HST
Span adjustment assembly (manual)	1	HST
Pointer-type angle measuring device	1	HST
Domestic	1	HST
High-definition capacitive touch screen	1	
High-precision hydraulic cylinder	1	HST
Hydraulic element	1	HST
Oil pump motor	1	HST
Bending head diameterφ6、φ8、φ10、φ12、φ14、φ16、φ18、φ20、φ24、φ28、φ32、φ54、φ60、φ66、φ75	Standard 15 pieces	Optional
Technical data (instruction manual, packing list, certificate of conformity)	1	
Random tools	1	