

Furniture Mechanical Integrated Test Machine TNJ-001



Detailed Description

Furniture mechanical integrated test machine was designed according to GB/T10357.1—GB/T10357.9 and QB/T2280 related furniture standards. It is Office furniture and indoor and outdoor furniture including integrated testing machine. It can adjust the position and angle of the frame, cylinder per your request. According to a test for the selection of appropriate power to test. Various tests using its adjustable frame to install the number of cylinders, various tests with its adjustable frame and install cylinder to complete. It meets strength and durability test of ark, desk, bed, chair and so on. The test requirement about cabinets, drawers and doors is very strict. It must achieve the control of speed. Currently the test machine from other manufacturer is using a simple cylinder loading way and can't meet the test requirement. Our company adopts a new way created by ourselves. It can meet the test requirement well. It is suitable for the customers including the Laboratory of furniture and Product quality certification institutions.

Specifications:

Load: 0~250kg, 0~500kg can be specified.

Loading accuracy: 1/10000

Load precision:

- Static: $\pm 0.5\%$

- Dynamic force: 0-5%

Stroke: 0~300mm, 0~500mm, 0~800mm can choose cylinder to set

Pause time of each movement: 0.01s~99s can be set

Test speed: 5~30 times per minute can be set

Test number: 0~999,999 times per minute can be set

The use of gas pressure: 8KG/CM²

Available Test the workpiece number in one time: 12pcs (maximum)

Test space: 9*3m (L*W)

The main composition of the equipment:

1. The control system can meet 12 cylinders work at the same time. Every cylinder can work independently or work in a group. For cylinders work in the same group, the operating system can control each cylinder's operating sequence and the loading time. It means that loading time, holding time and waiting time can be set by computer.
2. Auto-induction the damage of magnetic valve, pressure regulating double used for filtering oil and water or position sensor, automatic stop testing. Test number:0---999,999.times can be set. It can stop automatically when it reaches the setting number. It can also save the test results automatically if the machine is stopped or the power is interrupted suddenly.
3. Computer + loading form closed-loop force control which is controlled by the program that has been set on the computer (directly setting test requirement on the computer, such as force value, shift etc. No necessary to adjust the pressure of cylinder and the limit sensor on the cylinder.). Automatic operation controlled by the computer.12 control channels can use force value to control. Four channels, not only controlled by force value, but also shift distance.
4. The computer program can set the force value and the testing number which can be real-time display. Automatic alarm for any breakdown.
5. If the detected specimen is damaged. The tester stops and saves the testing results. The test report can be edited after the test.
6. Cylinder on the beam or column can be moved horizontally and vertically. The angle of fixed device can be set. Fixed way can choose any force application angle. The cylinder can rotate 360 degrees and position in the vertical direction of the frame. You don't need to remove the cylinder's fixed position when it is rotating.
7. Unmanned test. Auto stop when test completed or specimen damaged. Auto save the test results meanwhile.
8. Test system has auto correction fuction, when using standard weight to adjust the force value, the system can adjust automatically if it occurs deviation. Correction factor and force value can be saved for the same machine. It is easy to operate because it can call the history of correction.
9. Software can control six channels at the same time, Each channel is operated by benchmark synchronization time. This ensures that action and data processing can be synchronous. Different channels divided into groups to control, if there is one sample in a channel is already broken, the associated channels in the same group will stop at the same time, the rest of channels can continue to work.
10. There is no less than 12 scram buttons. The device can be stopped by using each button in any emergency circumstances that makes it conveniently.

Standards:

1. QB/T2280-2007
2. GB/T10357. 1—《Furniture mechanical performance test strength and durability of desk》
3. GB/T10357. 2—《Furniture mechanical performance test stability of chair》
4. GB/T10357. 3—《Furniture mechanical performance test strength and durability of chair》
5. GB/T10357. 4—《Furniture mechanical performance test stability of cabinet》
6. GB/T10357. 5—《Furniture mechanical performance test strength and durability of cabinet》
7. GB/T10357. 6—《Furniture mechanical performance test strength and durability of bed》
8. GB/T10357. 7—《Furniture mechanical performance test stability of desk》