

Single arm drop test machine

RDL-01A

Operation

Manual

Foreword

Thank you for purchasing our testing machine.

This manual details the operating procedures, maintenance methods and simple troubleshooting and precautions for use.

Please read this manual carefully and follow the prescribed procedures to ensure that you can operate it smoothly every time. Please keep in mind the precautions to avoid machine failure due to improper human operation. Proper maintenance methods can extend the life of the machine .

All products of our company have passed strict quality control inspection before leaving the factory, you can use it with peace of mind, if you have any difficulties or problems, please contact our company directly .

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1. Overview

The drop test machine uses a brake motor to drive the drop arm to drive the drop arm to extend and drop. The drop height uses a digital display height gauge. The drop height is accurate, the display is intuitive, the operation is simple, the drop arm is raised and lowered smoothly, and the drop angle error is small. This machine is suitable for manufacturers and quality inspection departments.

2. Main technical parameters

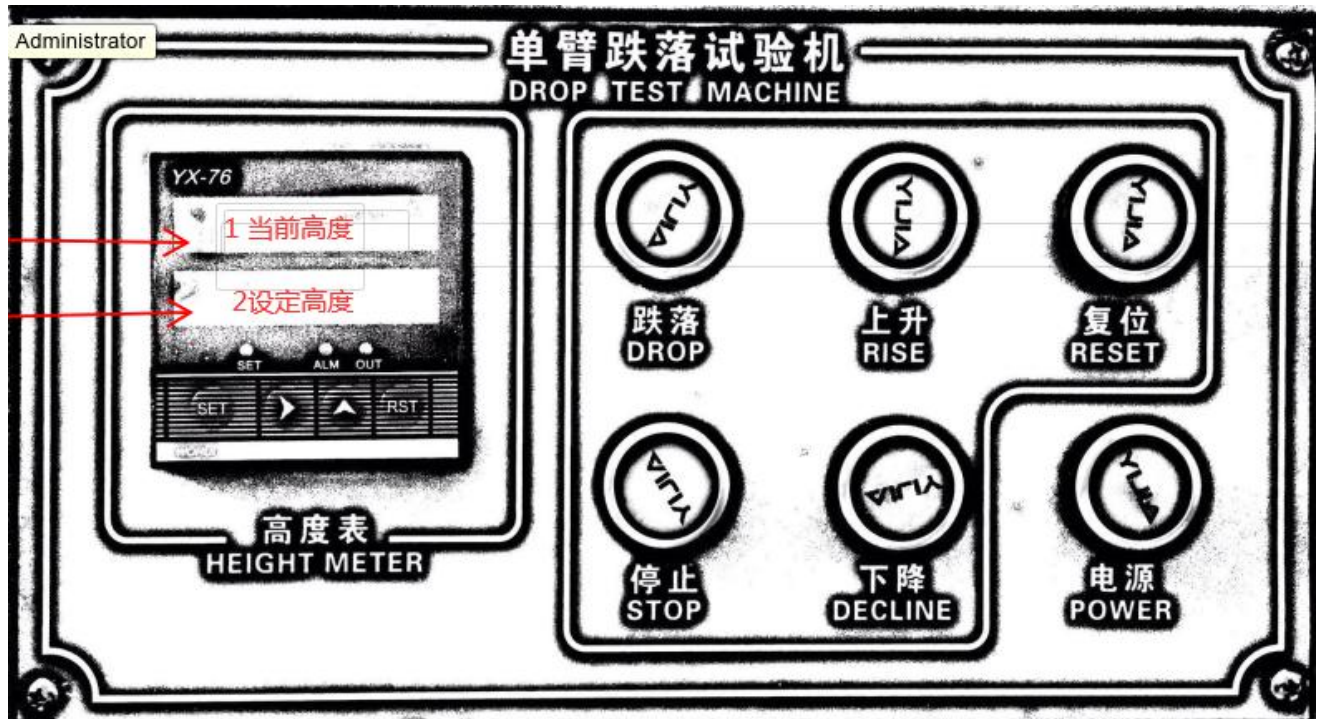
- ① Drop height (mm): 300—1500
- ② Measure the maximum weight (kg): 60
- ③ Maximum size of test piece (mm): 1000×800×1000
- ④ Impact panel size (mm): 1700×1200
- ⑤ Drop error: <1°
- ⑥ Drop height error: ±10mm
- ⑦ External dimensions of test bench (mm): about 1700×1200×2300
- ⑧ Net weight (kg): about 300
- ⑨ Power supply: AC380V 50HZ
- ⑩ Power: 0.37KWA

3. Operating Instructions

(1) Three-phase five-wire system wiring method:

- ① Green, red, light blue-three phase lines;
- ② Black-zero line;

- ③ Yellowish green-ground wire;
- (2) **Turn on the power switch** (at this time, it is strictly forbidden for unprofessional trained personnel to enter the yellow warning line to do any relevant test operations; it is strictly forbidden to stand under the falling arm, which is very dangerous)
- (3) At this time, the power switch lights up, and the meter enters the standby state after self-test;



SET - SET/confirm RST reset - Shift - change key

- (4) **Set the product test height:** ① Long press the SET button to enter the setting menu (at this time the SET indicator is on), press the button to select the modification bit to make it in the blinking state, press the ▲ key to modify the value of the blinking bit (Note: the value of the blinking modification bit , Will be displayed between 0-9). After setting the drop height and checking the error, press the SET button, the meter will automatically exit the setting state;

(It is forbidden to set the operation setting during the test of the height setting instrument, and it can only be operated during standby or after a single test is completed, otherwise it is easy to cause instrument failure, remember!!!)

- (5) **Put the test product** on the test plate and fix it with a fixture (note: two people must complete the test), the product should be placed in a fixed

position according to the desired face, angle and edge;

- (6) Press the ascending plate to automatically stop when it rises to the set height position. At this time, it enters the state to be tested. At this time, the operator is asked to leave the test area;
- (7) Press to drop, the test item falls freely, and the test is completed;
- (8) If you need to test again as follows (divided into the same height test / new height test)

If you want to test the falling condition of the product at the same set height, just press the reset arm to automatically spring back, and then place the product on the arm (platform), press the drop test;

If you need to re-test the falling condition of another height, press down the robot arm will automatically drop to the factory set minimum height of 300mm and stop, then press reset to automatically rebound the robot arm, and then place the product on the arm (platform) , Reset the required test height on the height setting instrument, and it will automatically stop when it rises to the set height position by pressing the rising plate. At this time, please leave the test area and press the drop test;

- (9) After the test, turn off the power switch and unplug the power cord.

Note: The RST key is used to correct the height error. If the height deviation is more than $\pm 10\text{mm}$, the instrument support arm is lowered to the lowest point, and the original factory setting height of 300mm can be restored by pressing the RST key.

Warning: Do not stand in the area of the cordon during the product drop test!

If there is an emergency, please do not handle it by yourself, you can notify the manufacturer to avoid accidents!

4. Matters needing attention and maintenance

① After each test is completed, the drop arm must be dropped to prevent the long-reset drop arm from pulling the spring and deforming it, which will affect the test effect. Before each drop, please reset the position and stop the motor before pressing the drop button;

② After the new machine is installed at the factory, it is

necessary to add appropriate low-concentration oil to the sliding round bar. It is strictly prohibited to add anti-rust oil or high-grade oil and corrosive oil with backlog);

③ If there is too much dust in the oiling place for a long time, please lower the machine to the lower part, wipe it clean and then oil the whole machine;

④ The drop machine is an impact mechanical device. When the new machine is used more than 500 times, the screws must be reinforced once to avoid failure.

Recovery setting steps

1. Press SET 5mins display <div>SCAL 0.8432</div>	7. Press SET display <div>Enter model</div>
2. Press MODE display <div>Pre 300</div>	8. Press SET display <div>Y St</div>
3. Press SET display <div>CP 3</div>	9. Press SET 键 display <div>O tP</div>
4. Press SET display <div>P OUT</div>	10. After the above Settings are completed, there is no need to operate any key instrument to automatically save data and restore factory low limit

<div>5. PressMODE</div> <div>display<div>B162 St</div></div>	<div>Use the following keys to set upDisplacement key: when setting, it is used to select a certain digit, the selected digit is flashing;</div> <div>Increase key: during setting, press the displacement key (▶) and then press this key to change the value of the flashing digit, the value increases in one direction</div>
<div>6. PressSET鍵</div> <div>display<div>OUT2 0</div></div> <div><div>●</div><div>Note: The sixth step is to adjust the height by means of the multiplier value. The multiplier value is inversely proportional to the display height of the machine. If the height of the machine is higher than the actual set height, then the value will be increased</div></div>	
<div>The whole instrument has been adjusted</div>	