



Operator's Manual

Drop Ball impact test machine

Read before Operation

Before operation this machine, please read this manual thoroughly, and keep a copy with the machine for future reference. This manual is to be considered part of your machine.

Model:NG-8517



1. Foreword

Thank you for your chosen our company's products, we not only provide your company good quality products, and will provide reliable service.

To ensure the use of personnel safety and equipment integrity, before using this instrument ,please fully view this operation manual.

For the manual, do pay attention to the precautions on its use. This manual details the design principles of this instrument,according to the standard, construction, operation specifications, calibration, maintenance, possible faults and remedy the situation, electrical plans, etc.

If in the manual mentioned in the various "test rule ", the standards are for reference only, if you have any objection please review standards or information by your own.

Special notes:

- This manual can not be the basis for any requirements.
- We reserve the right for this operating manual.



2. Notice

2.1 Please comply with the following signs of warnings, dangers and attentions for the sake of prevention of accidents and dangers when using the apparatus.

 Danger	The operator may be hurt if he does not comply with the specification.
 Warning	The apparatus may be damaged if the operator does not comply with the specification.
 Note	Using specification of the apparatus is added here.
 Attention	Testing quality and results may be influenced.

2.2 The warning and attention sign of instrument.

	Warning	Please refer to the manual if necessary.
	Dangerous Voltage	There is high voltage.
	Grounding Protection	The apparatus should be connected to the grounding terminal.



3. Overview

Thank you for purchasing the company Falling ball impact test machine, this "Operating Instructions" for the machine parameter settings and operating instructions.

Summary :

Falling ball impact testing machine is suitable for testing the fastness of plastics, ceramics, acrylic, glass fiber and other materials and coatings.

The principle :

The machine adopts DC electromagnetic control mode, the steel ball is placed under the electromagnetic sucker, the steel ball is automatically sucked up, press the drop button, the sucker instantly releases the steel ball, the steel ball will be free fall test, impact the surface of the specimen. The drop height can be adjusted up and down, and a height scale is attached to know the drop height of parts. which make your test accurate and fruitful.

Test Standards

- JIS-K6745, A5430 and etc.

Technical Specifications

Drop control mode: DC electromagnetic control

Display mode: ruler scale display

Drop height range: 0-1500mm

Ball weight: 225g , 533g, 1041g, 2280g

Power supply: 220 V, 50 Hz, 2A

Overall size: 500 * 500 * 1710mm

Machine weight : About 60 kg



Appearance shows





4. Operating Instructions

4.1 Test environmental requests :

I. power supply condition: AC 220 V, 50 Hz

DANGER: The error range of input voltage is $\pm 10\%$, and ensure that the machine should be correctly grounded to prevent damage caused by electric leakage.

2. Operating environment: room temperature

3. The machine should be installed and positioned on a horizontal ground.

4.2 Operating steps:

1) Preparation of specimens:

1. Select test pieces from the same batch.

2) Confirmation items before test:

1. Check whether the limit switches on both sides of the machine are loose before starting the machine;
2. Confirm whether the machine is connected with the power supply conforming to the specification.

3) Operation specification:

1. Put the sample product into the test box and fasten the product with clamp block
2. On the set height pillar, loosen the handle, adjust the required height and fasten the handle
3. Connect the power supply to 220 v
4. Press the power switch, the power indicator will be on
5. Select the corresponding steel ball on the electromagnet to pull in
6. Press the drop button to carry out the test (★ note: when doing the drop, the operator or other personnel should not get close to the test box to avoid hurting people by mistake!)
7. After the test, turn off the power.
8. Remove the test object from the machine and check the appearance and function damage.
9. In case of any abnormality during the test, press the power switch quickly to cut off the power of the whole machine.



5.Maintenance

1. The instrument must be placed on stable table.
2. It is not allowed to move the machine during use
3. Select the appropriate supply voltage, not too high to avoid burning;
4. 4. When the instrument is abnormal, please contact us for timely processing;
- 5.Machine must work in ventilation environment
6. Please add oil to the mechanical parts, due to the larger load operation, ;
7. Cleaning machine, keep the machine clean after complete each test
8. Clean with dry cloth, not with a damp cloth.

6.Troubleshooting

1. If you opened the power button but does not display, indicating that no connect power supply or the power indicator was damaged. If the power indicator was damaged, please replace the indicator. If the power supply output terminals are not output, check the power cord or power outlet.
2. If connected power, the power indicator indicating but press the start button the machine does not work, then check whether the relay has dropped or disconnected. If dropped or broken please connect it well. If reply not dropping and disconnection, indicating that the relay has been damaged, it should be replaced.
- 3.If the power indicator light but the counter no display, indicating the counter was damaged, please replace the counter.



7. Quality Assurance

I . The guarantee period is 12 months (consumer goods and travel cost are not included).

II . The main quality warranty maintenance certificate

1. Please keep this guarantee letter, if you lost it, please connect with us in a month.
2. If this guarantee letter has been altered or it has no our stamp, it is useless.

III. The following conditions need to pay reasonably even in the assurance period.

1. Natural reasons
2. Operating mistakes
3. Voltage is not fit for our operation instruction
4. Repack it without our guides
5. Damaged for borrowing to others
6. Damaged for authorized machine modification
7. Damaged for authorized calibration
8. Authorized transshipment mistake
9. Serve for long distance area

IV. Notes:

1. Where the original in Guangdong province installation of our products, if the product moved to outside Guangdong-area use, whether or not within the effective warranty period, the transportation and travel expenses of the service personnel should be paid by the client.
2. All customers outside of Guangdong province, whether or not in the warranty period, the service of transportation and travel expenses paid by the customer.