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Toy Chest Durability Tester

English Manual




Model: TW-228


Please read this manual carefully before using this equipment.


The attention of security

Security of the mark



In this manual, with regard to the attention of security issues and the use of equipment, had the following important matters of the various shows, in order to prevent accidents and dangerous, please be sure to observe the following danger、 warnings and pay attention to this word in mind:

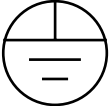
 **Danger:** This shows the project: Expressed as a failure to comply with, the operator may be harmed.

 **Notice:** This project shows it may affect the test results and the quality.

 **Annotate:** This shows the items that use this product in the operation of the auxiliary state.

1. In this instrument, the following marks means notice and warn.

	Warning sign	This mark means that the operating manual of the need to refer to places.
	Dangerous voltage symbol	Notation is expressed as high risk.

	<p>Earth fault protectionmark</p>	<p>That in this instrument, on the ground terminal.</p>
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I Introduction

1. Purpose

The machine applies to test the durability of toys lid switch can be repeated

2. Themory

The instrument with a rotating pendulum driven toys lid movements, simulated toy lid after a certain number of repeated opening and closing movements, the toy lid hinged part of the feature is intact.

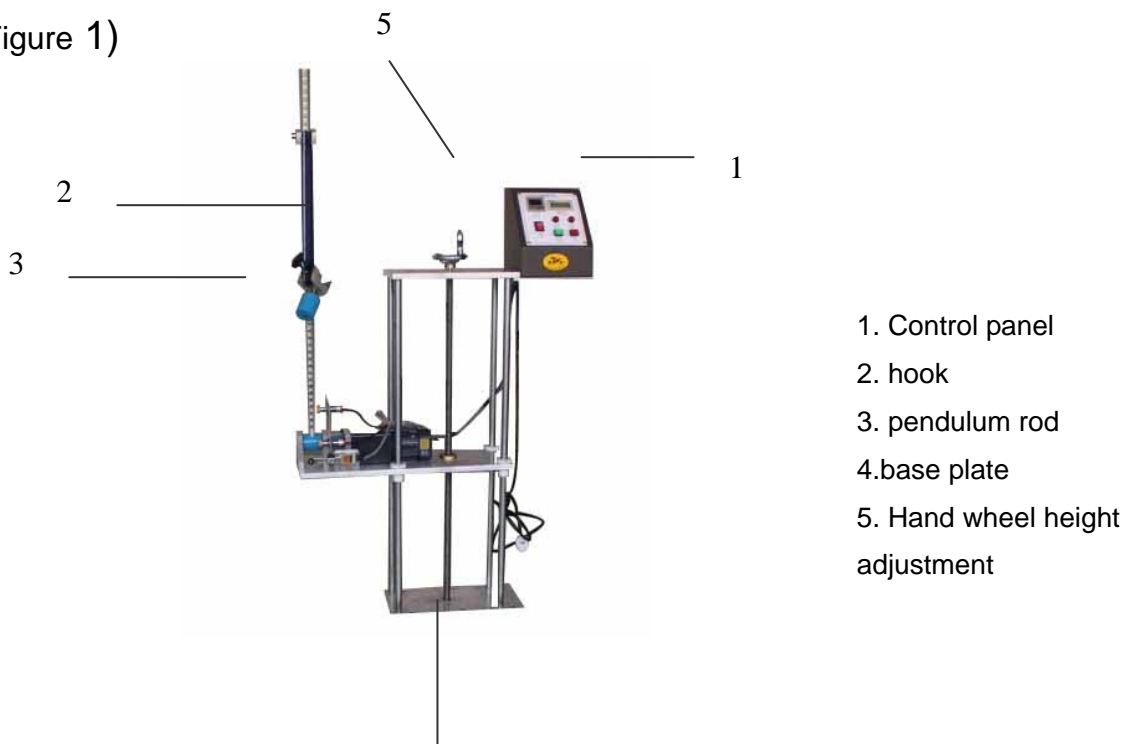
3. Standard

The instrument complies with ASTM F963 and GB 6675-2003 National Safety Technical Code for Toys Manufacturing

II The illustration of instruction

1. The structure of instrument:

(Figure 1)



Picture 1 4

2. Function declaration

1. Baffle: Screws with the explosion in the firm ground, for the support of the entire machine

Hook' Cover for fixed Toys

Pendulum : Toy drive to do open and close the lid movement

Base plate: Support machine and placed on the specimen

Height adjustable handle: The pendulum height adjustable to accommodate different sizes of the samples

Control panel: With counter (which can set the number of tests), the start button, stop button, power switch, and the displacement measurement control operation buttons

3. Control Panel Description

(1) **Control Panel:** (Picture 2)



Picture 2

4. Specifications(table 1):

Item	Speciation
Specimen Qty	1/ time
Test speed	About 15 seconds / cycle
Testing Times	7000 times
Counter	LCD display 0~999999times can be set
Weight	Around 35kg
Power Supply	1φ AC 220V 3A

Table 1

III Installation

1. **Power conditions** : please refer to the nameplate

<p>Danger</p> <p>■ Input voltage error range should be within $\pm 10\%$ and ensure the machine should be properly grounded to prevent the leakage and damage.</p>

2. **Operation environment**: Normal temperature.
3. The machine must be placed on a level and a solid platform for installation of position and connected to a suitable gas source


IV Operation

1. **Preparation of specimens** :

Before operation to prepare the finished toy boxes specimen, the specimen shall not be defective.

2. **Operating procedure** :

1. Before the operation is required to confirm matters :
 1. 1 Make sure the power is to meet the requirements
 1. 2 To confirm whether the gas supply to meet the requirements
 1. 3 Confirm that the pendulum is in horizontal position

<p>【Note】</p> <p>The machine was set to automatically the pendulum back to the horizontal position when turn on or turn off the machine</p> 
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2. **Specimen place** :
 2. 1 Turning hand wheel height adjustment to make the pendulum up .height above the specimen height
 2. 2 Put into the toy box specimen, pull out the jig hook to make it in the outside of the specimen , turning hand wheel height adjustment so that the pendulum down to the jig hook just hooks up toys
Cover

2.3 Hook the toy cover with jig hook

Danger :

To prevent accidents, please turn off the POWER button and the gas source when place the specimen.



3. Start Testing:

3.1 To make the counter on the zero position and set the testing times 7000 according to the standard.

3.2 Press the START key to start the test, set the testing times and it will be automatically shut down machine when reaching the specified times.

3.3 Pull out the hook and take out the specimen.

3.4 Testing was finished .

【Note】



For a half-way down, simply press the STOP button to stop movement

4. Result adjust

Examin the test specimen and check the toy boxes hinged lid the part is damaged or not

【Note】



Above record only for reference, Please refer to the relevant standards for specific

V Calibration Procedure

1.Calibration items: speed(factory calibrated)

2.Calibration tool: standard stopwatch。

3.Calibration Cycle: six months

4.Calibration procedure:

1.Speed calibrate:

1.1 Open the power supply,make the counter point to zero, and set test 4 times.

1.2 Press START key to start the action, meaning time press the stopwatch start time

1.3 Calculate the speed according to the frequency and time, to check whether meet the requirement.


VI Maintenance

1. Please add lube to the screw each monthto make it operate smoothly

2.The surface of the machine should be cleaned before and after testing, the base of clamp should be regularly spray anti-rust oil.

VII Fault recovery

Faults	Impossible reasons	Resolutions
Open the power switch, power switch indicator does not turn	<ul style="list-style-type: none"> • Power did not enter. • Fuse burning. 	<p>Please check the repair electrical power lines</p> <p>Replace the same capacity of the fuse.</p>
Press the START button, machine doesn't work	Check "counting / timing" device has reached the set value.	To re-set the "counting / timing" controller setting and "zero", then press START to start.
Repeated burning fuse, can not be used.	Input voltage anomaly.	Ask the electrician check the power supply and recover the power supply back to normal
Machine to normal operation, the counter can not count.	<ul style="list-style-type: none"> • Counter fault. 	<ul style="list-style-type: none"> • Change a new counter.

【Note】
 In case of failure can not be excluded, please contact our customer service department.

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