

## GT- M Model

### GT-M02 Toys Chest Lid Tester/ Box Cover Durability Test

The instruments applies to test the durability of toys box cover. It uses fixtures to drive the toy box cover move, after simulating a certain number of opening and closing movements, check whether the toy box lid hinge part's functions are in good condition.

#### Standards

EN-71-1 section 8.31.3

ASTM F834 section 5.1

ISO 8124-1 section 5.13.2.2

GB 6675.2 section 5.13.2.2



### GT-M03 Mouth Toy Endure Tester & Mouth-actuated

Box-type apparatus used in this design, through the cylinder of the reciprocating motion of piston whistle toys, etc. move the required number of blowing, suction, observe whether the toy will blow, resulting from breathing or falling parts, resulting in infants or children the risk of testing the durability of toys.

#### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



### GT-M11 Transportation Vibration Tester

The machine is to simulate the goods in transit, encounter different road conditions such as bumpy, uphill, downhill, cornering, etc., products in the car produce the collision between goods and goods or goods and car and the extrusion between goods and goods, etc., causing damage to the products, so that the quality of goods and goods packaging can be further improved. Mainly used for vibration test of toys, electronics, furniture, gifts, ceramics, communications, equipment, computers and car parts.

#### Standards

ISTA, ASTM D999



### GT-M11-2 Horizontal and vertical vibration test machine

Vibration test machine is a powerful tool which will lead your products into the field of high-quality. It simulates the variety

vibratile environment that products may suffer in the manufacture, assembly, transportation and use of the implementation. It is used to determine the ability of products to bear the vibratile environment and is applied to research, development, quality control, manufacturing in all walks of life for electronic, electrical and mechanical, photoelectric, automobile, toys and so on.

### Standards

GB 2423

IEC 68-2-6(FC)

JJG 189-97

GB/T 13309-91



### **GT-M16 TTF Tensile Tester**

The TTF tensile testing machine is used for providing large and stable tensile during the tension test. in tensile. It is mostly used for the toys' destructive tension test.

### Standards

EN-71-1 section 8.4, 8.34

ASTM F963 section 8.9

16CFR 1500 section 51, 52, 53

ISO 8124-1 section 5.24.6, 5.31

GB6675-2 section 5.24.6, 5.26



### **GT-M18A Kinetic Energy Tester**

This machine is used to detect the maximum kinetic energy generated by the fired bullets of projectile toys or the launched bows, thereby to determine whether the toy projectiles would harm the child.

### Standards

ISO 8124-1 section 5.15

GB 6675-2 section 5.15

EN-71-1 section 8.24

ASTM F963 section 8.14



### **GT-M19A Dynamic Strength & 2m/s Tester**

This test instrument is mainly used to test the dynamic strength of wheeled ride-on toys. Can simulate driven toys vertically hit the inelastic step in a steady speed of 2m /S  $\pm$  0.2 /S, then observe the damaged condition. Applied to toy bicycles, scooters, roller-skate and etc.

### Standards

EN71-1 section 8.22 ;

ASTM F963 section 8.20

ISO 8124-1 section 5.24.4 and 5.27 ;

GB 6675 section 5.24.4



### **GT-M27-1 Motor Brake Performance Test Ramp**

This instrument is a longer 10 degree ramp, mainly used for the brake test of electric ride-on toys.

### Standards

EN-71-1 section 8.26.1.2



### **GT-M27-2 Brake Performance Tester**

For this instrument, the tilt angle of the ramp is adjustable. The angle adjustment range is 0 ~ 45 degree. Can be used to assist test the locking device of collapsible toys, the stability of toys, the brake performance of ride-on toys, etc., need to used with specified weight.

### Standards

EN-71-1, ASTM F963

ISO 8124-1, GB6675-2



### **GT-M28 Ball Impact Tester**

Determine whether the toy has produced hazardous sharp edges, hazardous sharp points or loose parts which could enter the eye.

### Standards

ASTM F 963 section 8.7.4

ISO 8124-1 section 5.14

GB6675-2 section 5.14



### **GT-M29 EN-71-1 Impact Test Table**

Used to reduce the dangerous caused by damaged manufactural materials or simulated protective devices.

### Standards

EN 71-1 section 8.7 ;

ISO 8124-1 section 5.33 ;

ASTM F963 section 8.24.4.2



### **GT-M30 Average Speed Tester**

This instrument is mainly used to test the mobile speed of the electric ride-on toy, can evaluate the motor braking performance and the maximum design speed of a toy cars.

### Standards

EN-71-1 section 8.26.1.2 , 8.29

ISO 8124-1 section 5.17

GB 6675-2 section 5.17

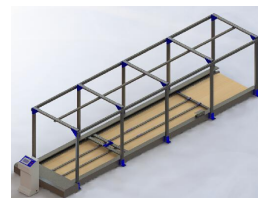


### **GT-M31 Motor Horizontal Brake Performance Test**

This machine is mainly used to test the motor brake performance of electric ride-on toys .

### Standards

EN-71-1 section 8.26.1.3



### **GT-M33 Push-Pull Test Stand**

The tester is an assistant tool for push-pull test of toys. Applied with Push Pull Gauge, is specialized in tension/Compression, Insertion/withdraw and fracture test in every trade and scientific research organization. With gear drive and manual operation, adjustable test stand can be moved up and down to set orientation. Simplicity, stability, expeditiousness and appreciating batch test.

### Standards

ISO 8124-1 section 5.24.7

GB6675-2 section 5.24.7

EN-71-1 section 8.8

ASTM F963 section 8.10

16CFR 1500 section 51 and 52 and 53

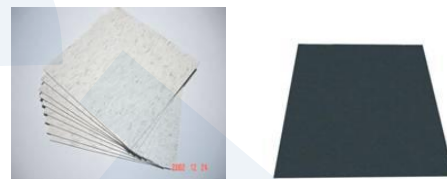


### **GT-M35 EN-71-1 & ASTM F963 Drop Tester**

The tester is to determine the toys fall on the floor through a certain height, fall in a certain number, then check whether the hazardous sharp points, hazardous sharp edges, hazardous small parts and hazardous driving mechanisms have become accessible.

### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



### **GT-M36 Two Pronged Clamp**

It is the assistant tool used for toys tension test.

### Standards

EN-71-1 section 8.4, 8.34; ASTM F963 section 8.9

16CFR 1500 section 51, 52, 53; ISO 8124-1 section 5.24.6, 5.31

GB6675-2 section 5.24.6, 5.26



### **GT-M37 Three Pronged Clamp**

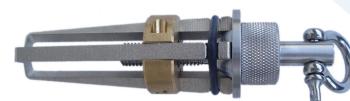
The stainless steel tests an eye, nose, button up etc. the accessories use fixture.

### Standards

EN-71-1 section 8.4, 8.34; ASTM F963 section 8.9

16CFR 1500 section 51, 52, 53; ISO 8124-1 section 5.24.6, 5.31

GB 6675-2 section 5.24.6, 5.26



### **GT-M38 Compression Head**

The test pressure plate is used to provide a pressure test for toy plane. According to the standard requirements: Any accessible area on the surface of a toy that is inaccessible to flat surface contact during the drop test or tip over test shall be subjected to a compression test.



### Standards

EN71-1 section 8.8; ISO 8124-1 section 5.24.7

GB6675-2 section 5.24.7; ASTM F963 section 8.10

16 CFR 1500 section 51 and 52 and 53

### **GT-M39 Flat Clamp**

It is the assistant tool used for toys tension test.

### Standards

EN-71-1 section 8.4, 8.34; ASTM F963 section 8.9

16CFR 1500 section 51, 52, 53; I

SO 8124-1 section 5.24.6, 5.31

GB6675-2 section 5.24.6, 5.26



### **GT-M40, M41, M42 Torque Fixture**

It is the assistant tool for toys torque test.

### Standards

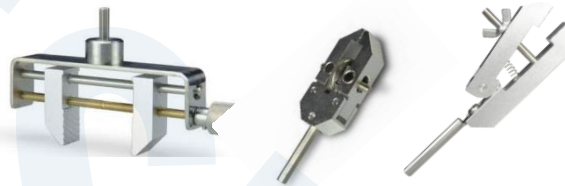
ISO8124-1 section 5.24.5

GB 6675-2 section 5.24.5

EN71-1 section 8.3

ASTM F963 section 8.8, 8.16, 8.24.4.3

16CFR 1500 section 51, 52, 53



### **GT-M43 Long - Mouth Clamp**

It is the assistant tool for toys torque test.

### Standards

EN-71-1 section 8.4, 8.34

ASTM F963 section 8.9, 8.18.8

16CFR 1500 section 51, 52, 53

ISO 8124-1 section 5.24.6, 5.31

GB6675-2 section 5.24.6, 5.26



### **GT-M44 Flexure Tester**

This instrument is used to test the metallic wires and other metallic components of a toy or part of a toy after repeated flexing, whether the toy will break and produce hazardous sharp points, or protrude through any surface covering of the toy.

### Standards

EN71-1 section 8.13

ISO 8124-1 section 5.24.8

GB6675-2 section 5.24.8

ASTM F963 section 8.12

16 CFR 1500 section 51 and 52 and 53



### **GT-M45 Bite Tester**

It is used to test whether the toys has cracked after bite test, and if it has produced hazardous sharp points, hazardous sharp



edges, and hazardous small parts after crack.

### Standards

16 CFR 1500 section 51 and 52 and 53

### **GT-M46 Rattle Test Fixture ( Template A and B )**

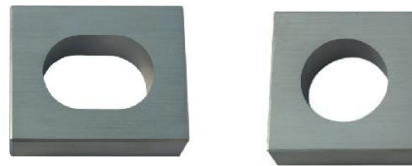
Rattle test is a simulation of children's oral cavity capacity, used to test whether toys or the parts of toys may cause choking or swallowing. Mainly used in toys intended for children who are too young to sit up unaided.

### Standards

EN-71-1 section 8.16

ASTM F963 section 4.22.1, 4.23, 4.24

16CFR 1510; ISO 8124-1 section 5.3 ; GB6675-2 section 5.3



### **GT-M47 Small Ball Test Fixture ( Template C )**

Small ball test fixture (Template C) is used to examine a toy up of whether small ball accessories may result in the child swallow, stop breath way and esophagus to cause choking danger or not. mainly used to test suction cups toy and ball toy or toys parts.

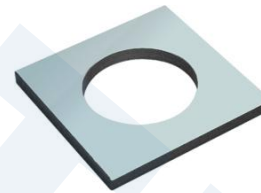
### Standards

EN-71-1 section 8.32

ASTM F963 section 4.34 and 4.35

ISO 8124-1 section 5.4 and 5.5

GB6675-2 section 5.4 and 5.5



### **GT-M48 Gap Test Round**

Diameter 5mm

Diameter 12mm/13mm

Diameter 6mm

### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



### **GT-M49 Short - Mouth Clamp**

In general use pull the dint test assistance fixture

### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



### **GT-M50 Seam Clamp**

It is the assistant tool used for toys tension test. Mainly applied to the cloth seam strength test of soft-filled toys. When testing, need to use two clamp pliers.

### Standards



EN-71-1 section8.4.2.2

#### **GT-M51 Liquid Leak Test Needle**

Diameter 1MM, the top radius 0.5MM steel needle, load 5N, for leakage testing.

##### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



#### **GT-M52 Hair Clamp**

Test the hair pulls the dint appropriation assistance fixture.

##### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



#### **GT-M53 Wide-Mouth Clamp**

It is the assistant tool for toys tension test.

##### Standards

EN-71-1, ASTM F963, 16CFR 1500, ISO 8124-1, GB6675-2,



#### **GT-M54 Clamp for Wheel Tension**

Pull cart the round uses fixture.

##### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



#### **GT-M55 Tension Clamp**

Pull cart the round uses fixture.

##### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



#### **GT-M56 Pacifier Tester**

Dimensions (L x W x H): 102 x 76 x 6.35mm

##### Standards

16CFR 1511, ASTM F963



#### **GT-M60 Noise Testing Stand**

Material: Aluminum alloy.

Noise meters laying aside jig:

Function: Can along X, Y, Z (X displacement: 0 - 1000mm;

Y displacement: 0 -1700mm; Z displacement: 0 - 1800mm)

tripartite to dynamic positioning



## Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500

### **GT-M61 Tip Assessment Gauge**

This instrument is used to determine if projectiles with rigid leading edges meet the standard requirement or not.

## Standards

ASTM F963-2016 section 4.21.1 , 8.14.1



### **GT-M61 Tip Assessment Gauge**

This instrument is used to compression Test for Snap-in Wheel and Axle Assemblies. It has two parts, Test the test indenter and test the bottom plate.



## Standards

ASTM F963-2016 section 8.11.3

### **GT-M65 Impact Hammer**

The Impactor simulate the apparatus possible mechanical impact that may occur in the normal use. To check appliances shell' s ability to withstand mechanical shock.

## Standards

IEC60068-2-75, IEC60065, IEC60335-1,  
IEC60598-1, IEC60745-1,  
GB4706.1, GB8898, GB7000.1



### **GT-M66 Expand toy test template**

This instrument is used to determine toys and components of toys which contain or be composed of expanding materials after the relevant test, is it still meet the standard requirements.



## Standards

ASTM F963-2016 section 8.11.3

### **GT-M67 Bench Vice**

It is the assistant tool used for toys tension test. It is the assistant tool used for toys tension test. Mainly used to fix the main body of toys.

## Standards

EN-71-1 section 8.4, 8.34  
ASTM F963 section 8.9  
16CFR 1500 section 51, 52, 53  
ISO 8124-1 section 5.24.6, 5.31  
GB6675-2 section 5.24.6, 5.26





### GT-M68 Feeler Gauge

Used to determine whether parts on toys can be stepped up so as to determine whether the tensile testing is necessary.

#### Standards

EN-71-1 section 8.4.1.3

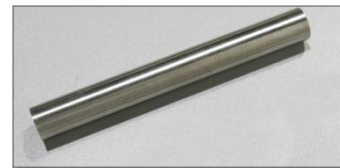


### GT-M69 12mm Feeler Rod

Use to determine the whether the cloth and sewing materials of soft stuffed toys after the tensile test is able to meet the safety requirements of standard .

#### Standards

EN-71-1 section 8.4.2.2



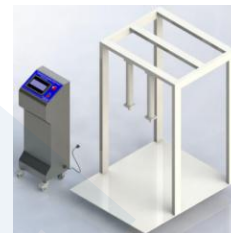
### GT-M82 Toys Scooter Steering Tubes Strength Tester

Apply to test the strength of toy scooter steering tubes,including resistance to downward forces and resistance to upward forces.

#### Standards

EN-71-1 section 8.27

ISO 8124-1 section 5.29



### GT-M91 Tumble Test Steps for Wheeled Toys

This instrument is mainly used to tumble test for Wheeled toys weighing more than 3 lb (1.4 kg) but not more than 10 lb (4.5 kg).

#### Standards

ASTM F963 section 8.7.3



### GT- MA Model

#### GT-MA03 Pointer Thermo-hygrometer

The instrument is used to test the ambient temperature and humidity.

#### Standards

NM300-6



### GT-MA08 Anemometer

GT-MA08 / DT-620 is an instrument with infrared measuring temperature function. It can measure air flow and speed, temperature of the air (with the probe) and the temperature of the surface (infrared temperature measuring function).

**Standards**

ISO 8124-2; GB 6675.3; EN71-2



**GT-MA09 Micrometer**

Micrometer is an length measuring instrument. It's more precise than vernier caliper.

**Standards**

ISO 8124-1; GB 6675.2 ,EN71-1 ; ASTM F963



**GT-MA10 Optical Projector**

This measuring projector is a photoelectric integration, high precision measuring instruments.

**Standards**

EN71-1 section 8.14 and 8.20

ISO 8124-1 section 5.11.1 and 5.21

GB 6675 section 5.11.1 and 5.21



**GT-MA12 Air Compressor**

Air compressor is the device which provides high pressure gas. We mainly use it to provide the pneumatic power for various experiment. This unit has the advantages of silent compression pump, low noise, av



**GT-MA13 Stopwatch**

Stopwatch is the accurate timer. This unit is the electronic stopwatch, assistant tool of timing control during test.

**Standards**

ISO 8124-1 section 5.19, 5.22, 5.24 , 5.34,

GB 6675.2 section 5.19, 5.22, 5.24, 5.29

EN71-1 section 8.3 ,8.4 ,8.8, 8.9, 8.15, 8.18,

ASTM F963 section 8.10



**GT-MA14 Electronic Metronome**

This Metronome can emit a steady beat at various speeds, this machine is an electronic metronome, It mainly used for speed control when auxiliary toy testing.



### Standards

ISO 8124-1 section 5.24.8

GB 6675.2 section section 5.24.8

EN71-1 section 8.13

ASTM F963 section 8.12

### **GT-MA15 Digital Vernier Caliper**

Digital vernier caliper is a length measurement tool whose measurement value is shown digitally. It is a length, inner and outer diameters measuring instrument.

### Standards

ISO 8124-1 section 5.11.1, 5.21, 5.32

GB 6675.2 section section 5.11.1 , 5.21, 5.27

EN71-1 section 8.14, 8.20, 8.35

ASTM F963 section 8.24.2



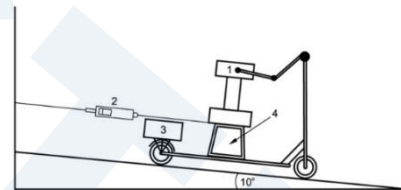
### **GT-MA20 Test Platform Block**

This instrument is the No.4 object on the picture above, mainly for regulating the center of gravity of the test weight to height 400mm.

### Standards

ISO 8124-1 section 5.27.3 ,5.28

EN71-1 section 8.22.3.3, 8.26.3



### **GT- MB Model**

#### **GT-MB01 Sharp Edge Tester**

The Sharp Edge Tester is used to touch to examining a toy of position whether the existence endanger safe sharp-edged edge, belong to the test item of the toy safety.

### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



#### **GT-MB03 Small Part Cylinder**

The Small Part Cylinder is the throat which uses to imitate a child under 3 years of age to test whether small article may pass or not. Belong to the test item of the toy safety. BE make into by the whole stainless steel material, the surface is turned a processing by bluntness.

### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500



#### **GT-MB04 Sharp Point Tester**

The Sharp Point Tester is use can touch to examining a toy of position whether the existence endanger safe of sharp-edged sharp point. Belong to the test item of the toy safety.



### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500

#### **GT-MB06 ISO 8124-1 Accessibility Probe**

Can touch A/B of stretch forward the cent two kinds of model numbers, the A model number applies the toy that the child under 3 years of age use and the B model number applies the toy that the child over 3 years of age use.

### Standards

ISO 8124-1, EN-71-1, ASTM F963, 16CFR 1500

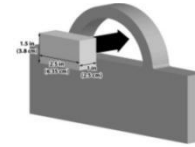


#### **GT-MB13 Jaw Entrapment Risk Test Fixtures**

It is used for determine whether there is the risk of jaw entrapment in handles and steering wheels that are located such that they are accessible for teething in the following categories of toys intended for children under 18 months of age.

### Standards

ASTM F963 section 4.39



#### **GT-MB14 Thickness Tester**

This thickness tester is suitable to determine plastic film and slice thickness with mechanical measurements. (Not suitable for embossed film and slice)

### Standards

EN-71-1 section 8.25

ISO 8124-1 section 5.10

ASTM F963 section 8.21

GB 6675-2 section 5.10

ISO 4593



#### **GT-MB15 Programmable Ultra High Resistance Tester**

GT-MB15/CS9515 Ultra High Resistance Tester; Apply to test high resistance performance for various kinds of materials. Such as these materials: circuit board, PVC, chip, electronic components etc...

### Standards

EN-71-1 section 8.19

ISO 8124-1 section 5.11.3

GB6675-2 section 5.11.3

ASTM F963 section 4.14.4



#### **GT-MB16 Infrared Thermometer for Measurement of Temp Rises**

It is used for measuring the temperature of the toy accessible parts and calculate the temperature rises. Standards

EN-71-1 section 8.30

ASTM F963 section 4.4, 4.25.7, 8.17

16CFR 1505 section 6, 7, 8

ISO 8124-1 section 5.18

GB 6675-2 section 5.18



### GT-MB17 Precision Mill Gauss Meter (Magnetic Flux Index)

Applicable for measuring magnetic induction intensity of all kinds of magnetic field, including DC magnetic field, AC magnetic field, etc. Portable, wide measuring range, easy operation and clear liquid crystal display. [Standards](#)

ISO 8124-1 section 5.32

GB6675-2 section 5.27

EN-71-1 section 8.35,

ASTM F963 section 8.24.1



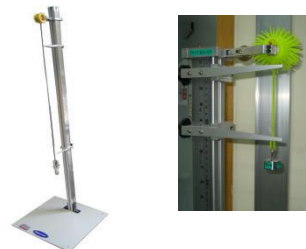
### GT-MB19 EN Yo-Yo Tester

It is used for measuring the YO-YO balls initial length and elastic constant K, to determine whether the YOYO ball of the elastic ropes have the hazard of neck injury.

#### [Standards](#)

EN71-1 section 8.37

ASTM



### GT-MB23 Perimeter of Ropes and Chains Tester

It's auxiliary tools for measuring perimeter for ropes and chains, so as to determine whether length of ropes complies with safety requirements.

#### [Standards](#)

EN-71-1 section 8.36



### GT-MB24 Hook Test Fixture for Cords and Loops

It's auxiliary tools to measure perimeter for Loops and Cords, so as to determine whether length of ropes complies with safety requirements.

#### [Standards](#)

ASTM F963 section 8.22.2



### GT-MB60 Rattle Test Template Stand

It's auxiliary stand to support GT-M46 Rattle Test Template & GT-M47 Small Ball Test Template, so as to it be more convenient to do test.

#### [Standards](#)

EN-71-1 , ASTM F963, 16CFR 1510

ISO 8124-1, GB6675-2

