



# MAYRA INDUSTRY

TESTING EQUIPMENTS FOR TOY INDUSTRY

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Toys testing equipment includes a variety of specialized tools designed for assessing the safety, quality, and adherence to regulations of toys. These instruments span different areas such as physical strength, chemical composition, flammability, electrical safety, choking hazards, noise levels, and compliance with industry standards. Their role is essential in ensuring that toys meet rigorous safety standards before reaching consumers thereby safeguarding children's well being and fostering trust in the toy industry.

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## Noise Testing Stand

This machine is the test stand for noise meter, used to assist in measuring the volume decibel produced by sound toys in a predetermined distance, then minimize the possibility of hearing damage that might be caused by toys that are designed to produce sound

### Standards:

EN-71-1 ISO 8124-1 ASTM F 963 16CFR 1500



## Kinetic Energy Tester

kinetic Energy Tester is used to measure the speed and kinetic energy of energy-stored and launched toys ( such as toy guns, bows etc), projectiles ( such as bullets, arrows, etc.) or activity toys ( such as toy cars etc.)

### Standards:

EN-71-1 ISO 8124-1 ASTM F 963, GB6675.2



## Mouth Toy Endure Tester

Mouth-actuated Toys Endurance Tester is used to test the safety performance of mouth-actuated toys

### Standards:

ISO 8124-1, GB6675-2, EN-71-1, ASTM F963



## Sharp Edge Tester

Used to determine if accessible edges on products intended for use by children are likely to cause injury. A self-adhesive PTFE tape is attached to a mandrel which is then rotated for a single 360-degree revolution along the accessible edge. If the tape is cut in half or longer (approximately 13 mm) the edge is identified as being a hazardous edge. Products that are intended for use by children under the age of 8 are subject to sharp edge testing before or after use and abuse testing.

### Standards:

ASTM F963(USA) EN 71(EUROPE)



## Sharp Point Tester

To determine whether accessible sharp points on toys are likely to cause injury. If the accessible sharp point penetrates a specified depth into the small rectangular opening of the tester, the LED is illuminated to indicate that the point is unacceptably sharp. Toys intended for use by children under 8 years old are subject to this requirement before or after use & abuse testing.

### Standards:

16 CFR 1500.48, ASTM F963 4.8, EN-71 1998 8.14, ISO 8124

## Dynamic Strength Tester

This Dynamic Strength Tester 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  $2\text{m /S} \pm 0.2 /\text{S}$ , then observe the damaged condition. Applied to toy bicycles, scooters, roller-skate and etc.

### Standards:

EN71-1 ASTM F963 ISO 8124-1



## Stability Testing Platform

Every day children are hurt when interacting with products in their daily environments, even with products made especially for children, such as the baby strollers, baby carrie, baby toys, baby bed etc

### Standards:

ASTM 963 , EN71-1-2014+A1-2018 , ISO8124-1 5.28 / 29



## Toy Impact Tester

EN Impact Test Table TW-201-EN 71-Toy Test-Manufacturer-HUST TONY.To simulate the mechanical damage through an impact action likely to be performed by a child. Assessment of sharp edges, sharp points and small parts may be carried out after impact.

### Standards:

EN71-1-2014+A1-2018 ISO 8124-1 : 2018ASTM F963-2017



## Accessories of Assisting Tension & Pull Test

Here are the Accessories for assisting Tension & Pull test for various kind of toys.

## Static Strength Tester

Static Strength Weights apply to test the strength of toy scooter steering tubes, including resistance to downward forces and resistance to upward forces.

## Dynamic Strength Tester

Dynamic Strength Weight apply to test Loads for determination of dynamic strength and strength for toy scooters



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