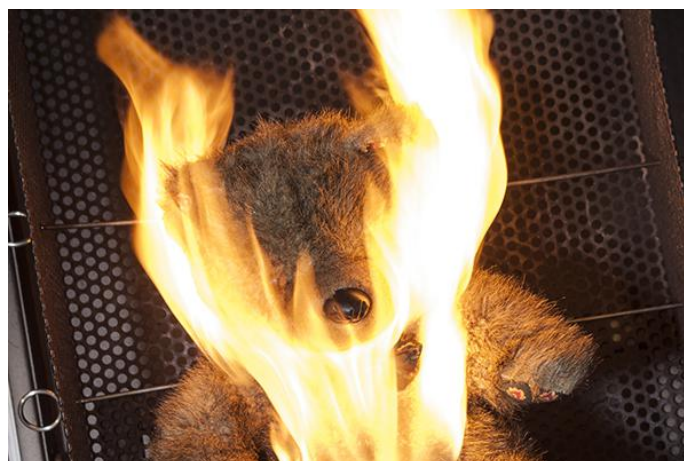
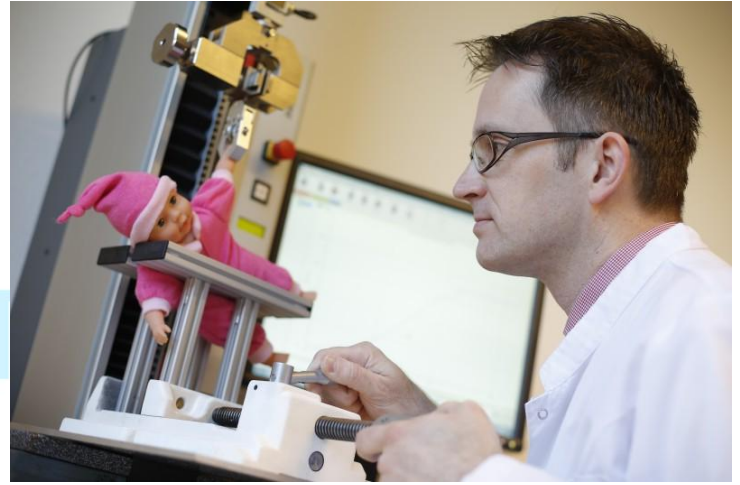


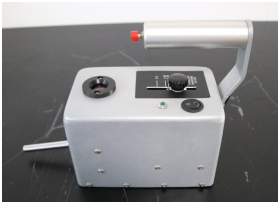
UTS TOYS TESTING MACHINES GENERAL CATALOG

(STNDARDS: EN 71-1 & 2,

ASTM F963, ISO 8124-1;

GB6675-2; 16CFR 1500)





T001 Sharp Edge Tester

To determine whether the accessible edges on child-related products are likely to cause potential risk of injury after normal use and reasonable abuse. Those child-related products include metal or glass edges on toys and other articles intended for use by children under 8 years of age.

Standards

EN 71-1 section 8.11; ASTM F963 section 4.7;
ISO 8124-1 section 5.8; GB6675-2 section 5.8; 16CFR 1500 section 49;



T002 Toy Box Cover Durability Tester

To determine the toys box cover durability property.

Standards

EN-71-1 section 8.10; ASTM F963 section 3.1.2;
16CFR 1500 section 48 and 49 ; ISO 8124-1 section 5.7; GB6675-2 section 5.7



T003 Small Part Cylinder

To determine whether child-related products & other articles intended for use by children under 3 years old have potential hazards of choking, suffocate, suction, swallow, etc.

If any objects can fit completely into the cylinder without compressing & in any orientation, it is defined as a "Small Part". Its internal dimensions simulate the fully expanded throat of a child under 3 years old.

Standards

EN 71-1 section 8.2; ASTM F963 section 4.6;
ISO 8124-1 section 5.2; GB6675-2 section 5.2; 16CFR 1501;



T004 Sharp Point Tester

To determine whether accessible sharp points on child-related products 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.

Standards

EN 71-1 section 8.12; ASTM F 963 section 4.9;
16 CFR 1500 section 48; GB 6675-2 section 5.9



T005 Mouth-Actuated Toys Durability Tester

to test the safety of the Mouth-Actuated Toys, such as whistles with a ball, the sounders with a reed and other toys. Load the mouth-actuated projectile toy with the intended projectile and apply a pressure of 13,8 kPa \pm 5 % in the direction of the mouthpiece for 5 s. Carry out the test 10 times in total.

Standards

EN 71-1 section 8.17.2; ASTM F963 section 8.13;
ISO 8124-1 section 5.20; GB 6675.2 section 5.20.



T006 Accessibility Probe

To assess the surface or components (points and surface of toys) of toys is likely to be touched and lead to hazardous. If the probe contacts the part or component, the part or component is considered to be accessible. Therefore, to do related tests based on standards to decrease hazards for children.

Standards

EN 71-1 section 8.10, ASTM F963 section 3.1.2,
GB6675-2 section 5.7, 16CFR 1500 section 48 and 49
ISO 8124-1 section 5.7.

**Photo no available
now**

T007 Mouth-Actuated Toys Durability Tester

Used to test the resistance to blow property for mouth-actuated toys.

Standards

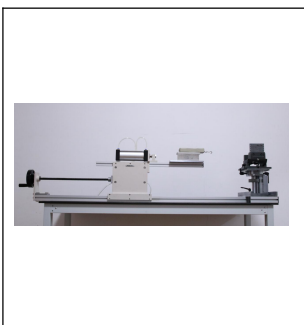
EN-71-1 section 8.17.1



T008 Transportation Vibration Tester

Standards

ISTA
ASTM D999



T009 TTF Tensile Tester

To provide the tensile force for toys' destructive tension test. Supply driving force via using air compressor.

Standards

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



T011 Kinetic Energy Tester

To test the maximum energy produced from projectile toy shoot bullets or launched bows, so as to evaluate ejection articles will cause injury for children or not.

Standards

EN 71-1 section 8.24; ASTM F963 section 8.14
ISO 8124-1 section 5.15; GB 6675-2 section 5.15



T012 Dynamic Strength & 2m/s Tester

To test dynamic strength for wheeled ride-on toys.

Simulate children wheeled ride-on toys vertically crush the inelastic step 50 x 50 mm at the stable speed of 2m/s \pm 0.2/s, and then check the damage degree. This device can be used for children ride-on toys, such as children tricycle, toy bikes, scooters, etc.

Standards

EN 71-1 section 8.22 ; ASTM F963 section 8.20

ISO 8124-1 section 5.24.4 and 5.27 ; GB 6675 section 5.24.4



T013 Surface Flash Tester

To determine the flammability property for fluff or fur fabrics (except floor coverings).

Standards

BS 4569



T015 Brake Performance Tester

This tester is suitable for testing the stability and brake performance of the baby carriage, simulating in the process of daily use baby carriages on the slope surface and its possibility of tilting and braking stability. It can be adjusted with the range of 0~45 degree.

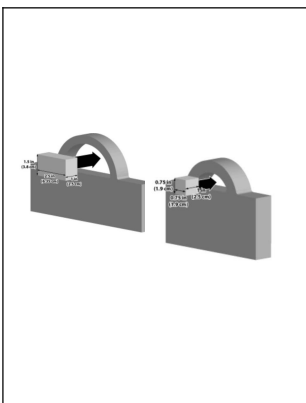
Standards

EN 71-1 section 8.18.3, 8.23, 8.26.1.1, 8.26.2, 8.26.3

ASTM F963 section 4.15, 8.15.1

ISO 8124-1 section 5.12, 5.16.2, 5.16.3, 5.22.3

GB6675-2 section 5.12, 5.16.2, 5.16.3, 5.22.3



T016 Jaw Entrapment Risk Test Fixtures

To determine 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: activity tables intended to be played with by a standing child, large bulky toys, stationary floor toys, push toys intended to be pushed by a child walking upright, and ride-on toys.

Standards

ASTM F963 section 4.39



T017B Plastic Film Thickness Tester

To determine the thickness of plastic film and slice with mechanical measurements. (Not suitable for embossed film and slice)

Standards

EN-71-1 section 8.25; ASTM F963 section 8.21;

ISO 8124-1 section 5.10; GB 6675-2 section 5.10; ISO 4593



T018 Programmable Ultra High Resistance Tester

Used to test high resistance performance for such various kinds of materials as PVC, circuit board, chip, electronic components etc.

Standards

EN 71-1 section 8.19
ISO 8124-1 section 5.11.3
GB 6675-2 section 5.11.3
ASTM F963 section 4.14.4



T019 Infrared Thermometer

To measure the temperature and calculate the temperature rises.

Standards

EN 71-1 section 8.30

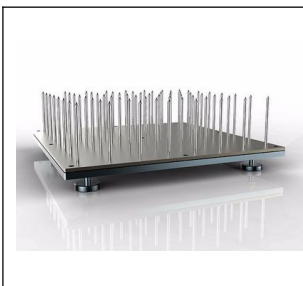


T020 Precision Mill Gauss Meter (Magnetic Flux Index)

To measure the magnetic induction intensity of all kinds of magnetic field, including DC magnetic field, AC magnetic field, permanent magnetic material surface magnetic field, dc motors, speakers, magnetic separator, etc.

Standards

EN-71-1 section 8.35,
ASTM F963 section 8.24.1
ISO 8124-1 section 5.32
GB6675-2 section 5.27



T021 Nailed Bed Flammability

To test the inflaming retarding performance for toys and record its burning time. Then check whether the inflaming parts meet standard or not.

Standards

ASTM F963 section A5
16 CFR1510

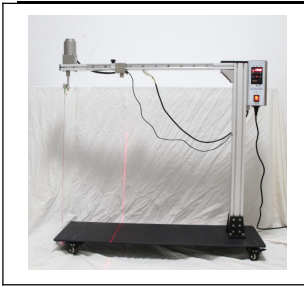


T022A EN Yo-Yo Ball Tester

To measure initial length and extended constant K of YO-YO balls, to determine whether the extended ropes of balls have the neck injury hazard or not. Steel ruler, graduated scale and weights are included.

Standards

EN 71-1 section 8.37



T022B ASTM Yo-Yo Ball Length Tester

To measure the length of YO-YO ball at the rotary speed of 80rpm, so as to determine whether the extended ropes of balls have the neck injury hazard or not. Steel ruler, graduated scale and weights are included.

Standards

ASTM F963 section 4.37, 8.23



T023A Breakaway Feature Separation Tester

Fix one end of the cord or the strap. Apply a force of (25 ± 2) N vertically to the other end, along the axis of the cord or strap, in such a way that the breakaway feature is in the middle between the fixing points. Observe whether or not the cord, strap or breakaway feature separates.

Standards

EN 71-1 section 8.38



T023B Breakaway Feature Separation Tester

Fix one end of the cord or the strap. Apply a force of 5Lbs vertically to the other end, along the axis of the cord or strap, in such a way that the breakaway feature is in the middle between the fixing points. Observe whether or not the cord, strap or breakaway feature separates.

Standards

ASTM F963 section 8.22.3



T024A Self-retracting Ropes Tester

Applicable for self-retracting cords toys to determine its force of self-retraction mechanisms

Standards

EN 71-1 section 8.39



T024B Self-retracting Ropes Tester

Applicable for self-retracting cords toys to determine its force of self-retraction mechanisms

Standards

ISO 8124-1 section 5.11.2; ASTM F963 section 4.14.2



T025A Length of Ropes and Chains Tester

To measure length for the ropes, chains or wires on toys. Cords connected to a self-retraction mechanism and cords in pull-along toys shall have an average cross-sectional dimension of 1,5 mm or more when measured (cords cross-sectional B dimension).

Standards

EN-71-1 section 8.20 , 8.40; ISO 8124-1 section 5.11.1; GB6675-2 section 5.11.1



T025B Length of Ropes and Chains Tester

To measure length for the ropes, chains or wires on toys.

Fix one end of the cord or chain and apply a force of 5Lbs to the other end along the axis of the cord or chain. Measure, to an accuracy of ± 1 mm, the length of the cord or chain from the fixing point to the end of the cord or chain. If the fixing point has the same shape or form as the cord or chain, this part is measured as part of the entire cord or chain .

Standards

ASTM F963 section 4.14.1, 4.14.3, 4.37, 8.23



T026 Perimeter of Ropes and Chains Tester

Assist to measure perimeter for ropes and chains, so as to determine whether length of ropes have the risk of safety.

Standards

EN 71-1 section 8.36



T027 Hook Test Fixture for Cords and Loops

Assist to measure perimeter for ropes and chains, so as to determine whether length of ropes have the risk of safety.

Standards

ASTM F963 section 8.22.2



T028 Ball Impact Tester

To test impact resistance for such rigid toys that cover face including goggles, space helmets or face shields.

Based on standard requirements, after testing, toys shall not produce sharp edges, sharp points or loose parts which could enter eyes. If so, then conduct follow tests via sharp edge tester, sharp point tester and small part cylinder.

Standards

ASTM F 963 section 8.7.4; ISO 8124-1 section 5.14; GB6675-2 section 5.14

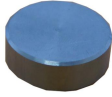

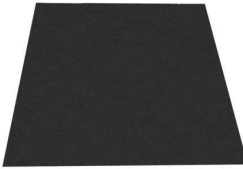



T029 EN Impact Test Table

This device is designed for simulating impact test for toys material or copied protective device toys under abuse condition. After impact, check whether toys generate accessible small parts, hazardous sharp edges, hazardous sharp point or hazardous driven construction, etc.

Standards

EN 71-1 section 8.7 ;
ISO 8124-1 section 5.33 ;
ASTM F963 section 8.24.4.2

<p>Photo No available</p>	<p>T030 Average Speed Tester To test the moving speed for electron ride-on toys. So as to assess toy cars' motor brake property and maximum designed speed..</p> <p>Standards EN 71-1 section 8.26.1.2 , 8.29; ISO 8124-1 section 5.17; GB 6675-2 section 5.17</p>
<p>Photo No available</p>	<p>T031 Motor Horizontal Brake Performance Tester To determine motor brake property for electric ride-on toys .</p> <p>Standards EN 71-1 section 8.26.1.3</p>
	<p>T032 Tension Test for Magnet</p> <p>Standards EN 71-1 Clause 8.34</p>
	<p>T033 Push-Pull Test Stand Assistant tool for push-pull test of toys. Applied with Push Pull Gauge.</p> <p>Standards EN-71-1 section 8.8; ASTM F963 section 8.10 ISO 8124-1 section 5.24.7; GB6675-2 section 5.24.7 16CFR 1500 section 51 and 52 and 53</p>
	<p>T035A EN Drop Floor To determine the toys fall on the floor at a certain height and times, so as to check whether whether toys generate accessible small parts, hazardous sharp edges, hazardous sharp point or hazardous driven construction, etc.</p> <p>Standards EN 71-1 section 8.5 , 8.6</p>
	<p>T035B ASTM Drop Floor To determine the toys fall on the floor at a certain height and times, so as to check whether whether toys generate accessible small parts, hazardous sharp edges, hazardous sharp point or hazardous driven construction, etc.</p> <p>Standards ASTM F963 section 8.7.1 and 8.7.2; ISO 8124-1 section 5.24.2 and 5.24.3; GB 6675-2 section 5.24.2 and 5.24.3; 16CFR 1500 section 51 and 52 and 53</p>

Tension Test Fixtures

Assistant tool for toys tension test. Including below fixtures:

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

T036 Two Pronged Clamp



T037 Three Pronged Clamp



T039 Flat Clamp



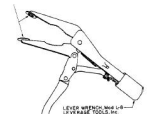
T049 Hair Test Clamp



T050E EN Seam Clamp



T050A ASTM Seam Clamp



T051 Long-Mouth Clamp



T052 Short-Mouth Clamp



T053 Wide-Mouth Clamp



T054 Clamp for Wheel Tension

Assistant tool used for toys tension test. Mainly used for toy car wheels tension test.

Standards

EN 71-1 section 8.4; ASTM F963 section 8.11.2, 8.11.3

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

GB 6675-2 section 5.24.6



T055 Tension Clamp

Assistant tool used for toys tension test. Mainly used for toy car wheels tension test.

Standards

EN-71-1 section 8.4; ASTM F963 section 8.11.2, 8.11.3

16CFR 1500 section 51, 52, 53; ISO 8124-1 section 5.24.6; GB6675-2 section 5.24.6



T063 Bench Vice

It is to fix the main body of toys 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

GB 6675-2 section 5.24.6, 5.26



T038A EN Compression Test Disc

This test compression disc can provide pressure test for plane of toys. According to standards' 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

EN 71-1 section 8.8; ISO 8124-1 section 5.24.7; GB 6675-2 section 5.24.7



T038B ASTM Compression Test Disc

This test compression disc can provide pressure test for plane of toys. According to standards' 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

ASTM F963 section 8.10; 16 CFR 1500 section 51 and 52 and 53

Torque Test Fixture

Assistant tool used for toys torque test.

Standards

EN71-1 section 8.3; ASTM F963 section 8.8, 8.16, 8.24.4.3
ISO 8124-1 section 5.24.5; GB 6675-2 section 5.24.5
16CFR 1500 section 51, 52, 53

T040 Large Torque Fixture



T041 Middle Torque Fixture



T042 Small Torque Fixture



T043 Liquid Leak Test Needle

Apply 5N force through a steel needle to the liquid-filled toys for checking whether there is leakage.

Standards

EN 71-1 section 8.15; ISO 8124-1 section 5.19; GB6675-2 section 5.19

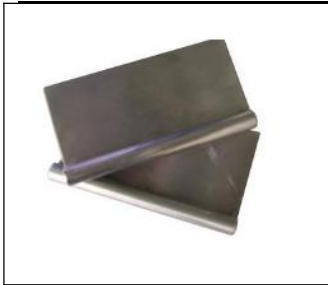


T044A ASTM Flexure Tester

To flex wires or rods of toys or part of toy, so as to check it whether will break or generate hazardous sharp points, or protrude through any surface covering of the toy.

Standards

ASTM F963 section 8.12; 16 CFR 1500 section 51 and 52 and 53
GB6675-2 section 5.24.8



T044B EN Flexure Tester

To flex wires or rods of toys or part of toy, so as to check it whether will break or generate hazardous sharp points, or protrude through any surface covering of the toy.

Standards

EN 71-1 section 8.13; ISO 8124-1 section 5.24.8 ; GB 6675-2 section 5.24.8

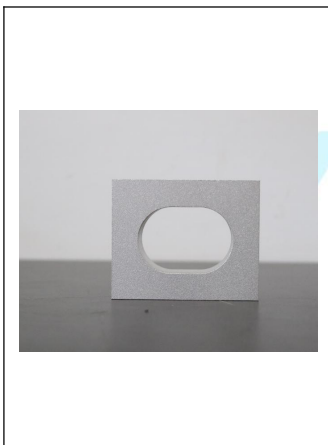


T045 Bite Test Clamp

Simulates a child biting the accessible area of child-related products. The part of the child-related products being tested is placed in a bite test clamp & a specified force is applied for a specified period. The child-related products is then tested to ascertain whether or not any hazards result from the bite test such as sharp points/sharp edges/small parts.

Standards

16 CFR 1500 section 51 and 52 and 53

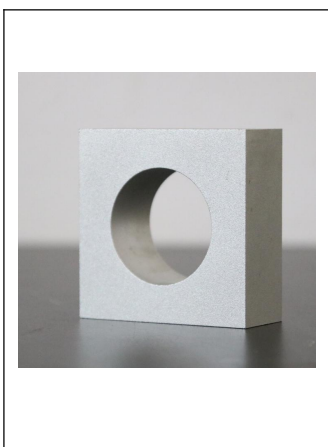


T046A Rattle Test Template - Oval (Template A)

To determine whether rattles for infants of up to 18 months old present choking or suffocating hazards. The rattle is placed in the opening of test fixture. If any part of the rattle can pass through the opening without being pushed or pulled, the rattle has failed. For other rattles incorporating nearly spherical, hemispherical or circular flared ends, a Supplemental Rattle Test Fixture is available.

Standards

EN 71-1 section 8.16; ASTM F963 section 4.22.1, 4.23, 4.24
ISO 8124-1 section 5.3; GB 6675-2 section 5.3; 16 CFR 1510



T046B Rattle Test Template - Round (Template B)

To determine whether rattles for infants of up to 18 months old present choking or suffocating hazards. The rattle is placed in the opening of test fixture. If any part of the rattle can pass through the opening without being pushed or pulled, the rattle has failed. For other rattles incorporating nearly spherical, hemispherical or circular flared ends, a Supplemental Rattle Test Fixture is available.

Standards

EN 71-1 section 8.16 and 8.33; ASTM F963 section 4.22.2, 4.24.2, 4.32
ISO 8124-1 section 5.3, 5.6; GB 6675-2 section 5.3, 5.6; 16 CFR 1510




T047 Small Ball Test Template

Small ball test fixture (Template C) is used to determine whether loose balls in child-related products intended for children under 36 months will pass entirely through the test fixture under the influence of their own weight and


without compression. A ball which can pass through the test fixture is determined to be a " Small Ball". 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




T048A Round-gap Test(Gap Test Round) (3mm, 5mm, 6mm, 12mm)
To determine whether the accessible gap on toys may cause hazards for children.

Standards
EN-71-1 section 4.10
ISO 8124-1 section 4.12.2, 4.13, 4.14
GB6675-2 section 4.12.2, 4.13, 4.14



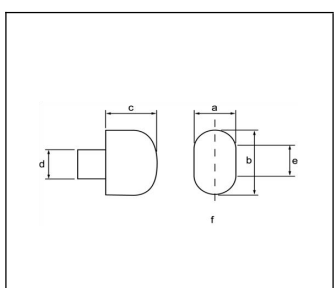
T048B Round-gap Test(Gap Test Round)(3mm, 5mm, 6mm, 13mm)
To determine whether the accessible gap on toys may cause hazards for children.

Standards
ASTM F963 section 4.18




T056 Pacifier Tester
To determine whether the pacifiers for infants present choking or suffocating hazards, A pacifier is placed centrally in the opening of test fixture. The nipple is subjected to a tensile force of lbs and held for 10 seconds. If the shield is pulled through the fixture, the pacifier has failed.

Standards
ASTM F 963 section 4.20.2; 16CFR 1511 section 3



T058 EN Head probes
Used to simulate the head size of infant under 3 years, to assess whether head of children can completely pass through fixed ropes loops. So as to avoid infant being twined around and reined.

Standards
EN-71-1 section A.29



T059 ASTM Head probes
Used to simulate the head size of infant under 3 years, to assess whether head of children can completely pass through fixed ropes loops. So as to avoid infant being twined around and reined.

Standards
ASTM F963 section 4.14.1 ,8.22.1



T060 Noise Testing Stand

To determine the sound pressure level of sound toys as it would be in an environment excluding all reflections from walls and ceiling. So as to minimize the possibility of hearing damage that might be caused by toys that are designed to produce sound.

Standards

EN 71-1 section 8.28; ASTM F 963 section 4.5 and 8.19
ISO 8124-1 section 5.25; GB 6675-2 section 5.25
16 CFR 1500 section 47



T061 Rattle Test Template Stand

It's assistant tool to support T046 Rattle Test Template & T047 Small Ball Test Template for more convenient to do test.

Standards

EN 71-1 section 8.16 and 8.32 and 8.33
ASTM F963 section 4.22 and 4.23 and 4.24 and 4.32 and 4.34 and 4.35
ISO 8124-1 section 5.3 and 5.4 and 5.5 and 5.6
GB6675-2 section 5.3 and 5.4 and 5.5 and 5.6
16CFR 1510



T064 Feeler Gauge

To determine whether parts on toys can be inserted. So as to determine whether the tensile testing is necessary. Feeler gauge with a thickness of $(0,4 \pm 0,02)$ mm and an insertion edge radius of approximately 3 mm.

Standards

EN 71-1 section 8.4.1.3

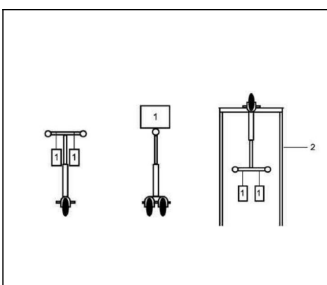


T065 12mm Feeler Rod

Determine whether the front part of a 12 mm diameter rod, with a fully radiused end, can be inserted through any one opening in the seam or cover material, using a maximum force of 10 N.

Standards

EN 71-1 section 8.4.2.2

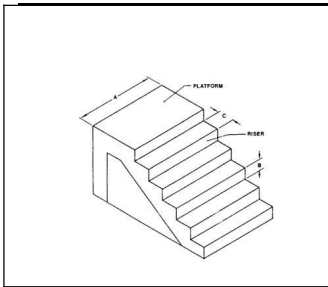


T066 Toys Scooter Steering Tubes Strength Tester

To determine 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

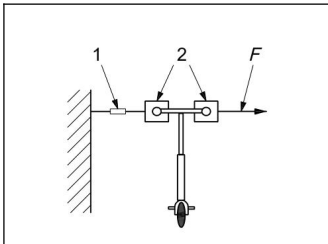


T067 Tumble Test Steps for Wheeled Toys

Use to do tumble test for Wheeled toys weighing more than 3 lb (1.4 kg) but not more than 10 lb (4.5 kg) at a flight of six steps with risers not less than 7 in. (180 mm) high. The treads may be wood, cement, or metal.

Standards

ASTM F963 section 8.7.3



T068 Toys Handlebar Resistance To Separation Tester

This machine is used to test the anti-separation performance of toy handlebars.

Standards

ISO 8124-1 5.30



TA01 Air Compressor

Air compressor is the device which provides high pressure gas as pneumatic power for various experiment, with silent compression pump, low noise, stable flow and easy for operation advantages.



TA02 Stopwatch

This electronic Stopwatch is the accurate timer for assisting timing during test. It is 200 super memory function, able to count up and count down timing function and waterproof.

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



TA03 Electronic Metronome

This electronic Metronome is able to emit a steady beat at various speeds, which mainly used for speed control for toy testing.

Standards

EN71-1 section 8.13; ASTM F963 section 8.12
 ISO 8124-1 section 5.24.8; GB 6675.2 section section 5.24.8



TA04 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

EN71-1 section 8.35



TA05 Loads for stability test

To do toys stability test.

Use 25kg load for children toys under 36 months,

Use 50kg load for children toys above or equal 36 months.

Note: The height of the load's centre of gravity is (220 ± 10) mm above the seat surface.

Standards

ISO 8124-1 section 5.12.2 , 5.12.3, 5.12.4, 5.16.1, 5.16.1.2, 5.17, 5.22, 5.24.4

GB 6675.2 section 5.12.2 , 5.12.3, 5.12.4, 5.16.1, 5.16.1.2, 5.17, 5.22, 5.24.4



TA06 Overload test loads for ride-on toys and seats

This load is mainly used to do overload ability test for ride-on toys.

35kg load for children toys under 36 months,

96kg load for children toys which is above and equal 36 months & less than 96 months.

140kg load for children toys which is for more than 96 months children.

Standards

ISO 8124-1 section 5.12.5

GB 6675.2 section 5.12.5



TA07 Static strength test load

Used to do static strength and stability test for toys.

Use 25kg load for toys which is for less than 36 month of children.

Use 50kg load for toys which is for above and equal 36 months of children.

Static strength test of scooter for children weighing more than 20kg should use the 100kg weight.

Note: The height of the load's centre of gravity is 150 mm above the seat surface

Standards

EN71-1 section 8.18(A,B), 8.21(A,B,C), 8.23(A,B), 8.26.1(A,B,C), 8.26.2(B), 8.26.3.2(A), 8.29(A,B)

GB6675.2 section 5.16.3(B); ISO 8124-1 section 5.16.3(B), 5.26(B, C)



TA08 Dynamic strength test load

This loads mainly used to do wheeled ride-on toy dynamic strength and scooters braking performance test.

Toys for the children under 36 months, should use the 29.5kg load.

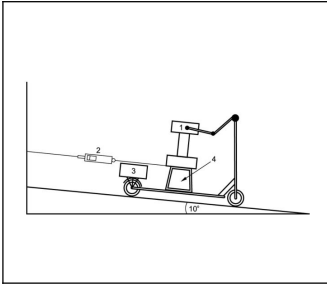
Toys for the children are 36 month and over should use the 54.5kg load.

This set of loads include two arms and seat belts.

Standards

ISO 8124-1 section 5.27 ,5.28

EN 71-1 section 8.22, 8.26.3



TA09 Test platform block

This instrument is the No.4 object on the picture. Used to adjusting the height up to 400mm for the center of gravity of test weight.

Standards

EN71-1 section 8.22.3.3, 8.26.3
 ISO 8124-1 section 5.27.3 ,5.28



TA10 ASTM Static strength test load

Mainly used to do dynamic strength and stability test for ride-on toys.
 Note: The height of the load's center of gravity is 220 mm above the seat surface.

Standards

ASTM F963 section 8.15, 8.20

Age. Years	Weight. LB(kg)
1 Year Load	28LB (12.6Kg)
2 Years Load	29 LB (13.2 Kg)
3 Years Load	42 LB (18.9 Kg)
4 Years Load	43 LB (19.7 Kg)
5 Years Load	50 LB (22.6 Kg)
6 Years Load	59 LB (26.6 Kg)
7 Years Load	69 LB (31.2 Kg)
8 Years Load	81 LB (37.0 Kg)
9 Years Load	89 LB (40.4 Kg)
10 Years Load	105 LB (47.9 Kg)
11 Years Load	121 LB (55.0 Kg)
12 Years Load	120 LB (54.7 Kg)
13 Years Load	140 LB (63.6 Kg)
14 Years Load	153 LB (69.6 Kg)



TA11 Weight Cantry Crane

To support the weight lifting, moving and installation in testing, which is to save human resources and guaranteed security.

Standards

EN71-1 section 8.18, 8.21, 8.23, 8.26, 8.29
 ASTM F963 section 8.15, 8.20, 8.26
 ISO 8124-1 section 5.12, 5.16, 5.17, 5.22, 5.24, 5.27, 5.28 ,
 GB 6675.2 section 5.12, 5.16, 5.17, 5.22, 5.24,



TA12 ASTM Overload Test Load

Test for Overload of Ride-On Toys and Toy Seats. The test load(s) shall be three times the weight than ASTM static strength test load at the highest age of the age range for which the toy is intended. Note: The height of the load's centre of gravity is 220 mm above the seat surface.

Standards

ASTM F963 section 8.26

Age, years	Weight, LB(kg)
1 Year Load	84LB (37.8Kg)
2 Years Load	87 LB (39.6 Kg)
3 Years Load	126 LB (56.7 Kg)
4 Years Load	129 LB (59.1 Kg)
5 Years Load	150 LB (67.8 Kg)
6 Years Load	177 LB (79.8 Kg)
7 Years Load	207 LB (93.6 Kg)
8 Years Load	243 LB (111.0 Kg)
9 Years Load	267 LB (121.2 Kg)
10 Years Load	315 LB (143.7 Kg)
11 Years Load	363 LB (165.0 Kg)
12 Years Load	360 LB (164.1 Kg)
13 Years Load	420 LB (190.8 Kg)
14 Years Load	459 LB (208.8 Kg)



UTS-AWA5661 Noise Meter

This device is used to measure sound pressure level for sounding toys comes from stipulated distance. So as to minimize the possibility of hearing damage that might be caused by toys that are designed to produce sound.

Standards

EN-71-1 section 8.28; ASTM F 963 section 4.5 and 8.19;

ISO 8124-1 section 5.25; GB 6675-2 section 5.25; 16 CFR 1500 section 47.



UTS-IMADA Digital Force Gauge

IMADA push pull scale can measure tension, compression force accurately. Zero adjustment for tare weight for various models is available. Calibrated in Pounds, Kilograms, or Newtons.


Standards

EN-71-1 section 8.4, 8.6, 8.8, 8.13, 8.15, 8.25.2, 8.26.1.1, 8.26.3, 8.34, 8.36

ASTM F963 section 8.9, 8.10, 8.11, 8.16, 8.18.8

ISO 8124-1 section 5.19, 5.24.6, 5.24.7, 5.24.8, 5.31

GB6675-2 section 5.19, 5.24.6, 5.24.7, 5.24.8				
16CFR 1500 section 51, 52, 53				
Model	Capacity	Display	Resolution	Thread
DS2-2N	2N (200gf)	2.000N(200.0gf)	0.001N (0.1gf)	M6
DS2-5N	5N (500gf)	5.000N(500.0gf)	0.001N (0.1gf)	
DS2-20N	20N (2kgf)	20.00N(2.000kgf)	0.01N (0.001kgf)	
DS2-50N	50N (5kgf)	50.00N (5.000kgf)	0.01N (0.001kgf)	
DS2-200N	200N (20kgf)	200.0N (10.00kgf)	0.1N (0.01kgf)	
DS2-500N	500N (50kgf)	500.0N (51.00kgf)	0.1N (0.01kgf)	
DS2-1000N	1000N (100kgf)	1000N (100.0kgf)	1N (0.1kgf)	



UTS-IMADA Pointer Type Force Gauge

IMADA push pull scale can measure tension, compression force accurately. Zero adjustment for fare weight for various models is available. Calibrated in Pounds, Kilograms, or Newtons.

Standards

EN-71-1 section 8.4, 8.6, 8.8, 8.13, 8.15, 8.25.2, 8.26.1.1, 8.26.3, 8.34, 8.36

ASTM F963 section 8.9, 8.10, 8.11, 8.16, 8.18.8

ISO 8124-1 section 5.19, 5.24.6, 5.24.7, 5.24.8, 5.31

GB6675-2 section 5.19, 5.24.6, 5.24.7, 5.24.8

16CFR 1500 section 51, 52, 53

Model	Capacity	Graduation	Thread
FB-10N	10N	0.1N	M6
FB-20N	20N	0.2N	
FB-30N	30N	0.25N	
FB-50N	50N	0.5N	
FB-100N	100N	1N	
FB-200N	200N	2N	
FB-300N	300N	2.5N	
FB-500N	500	5N	
FS-1K	1kgf	10gf	
FS-2K	2kgf	20gf	
FS-3K	3kgf	25gf	
FS-5K	5kgf	50gf	
FS-10K	10kgf	100gf	
FS-20K	20kgf	200gf	
FS-30K	30kgf	250gf	

FS-50K	50kgf	500gf
FB-5lb	5lb	0.05lb
FB-10lb	10lb	0.1lb
FB-20lb	20lb	0.2lb
FB-30lb	30lb	0.25lb
FB-50lb	50lb	0.5lb
FB-100lb	100lb	1lb



BTG

UTS-TOHNICHI Torque Gauge

Hand held type of torque gauge is for detecting torsion force and minimum torsion. Equip with bi-directional scale to achieve bidirectional testing.

In the toys testing filed, it is to determine the possible hazards or abuse generated by children use toys and apply torque or tension force.

Standards

EN71-1 section 8.3; ISO 8124-1 section 5.24.5;

16CFR 1500 section 51, 52, 53

ASTM F963 section 8.8, 8.16, 8.24.4.3;

GB 6675-2 section 5.24.5;

Model	Capacity	Crudation
45ATG	5-45 gf.cm	1 gf.cm
90ATG	10-90 gf.cm	2 gf.cm
150ATG	20-150 gf.cm	2 gf.cm
300ATG	30-300 gf.cm	5 gf.cm
600ATG	60-600 gf.cm	10 gf.cm
1200ATG	100-1200 gf.cm	20 gf.cm
2400ATG	300-2400 gf.cm	50 gf.cm
1.5BTG	0.2-1.5 kgf.cm	0.02 kgf.cm
2.4BTG	0.3-2.4 kgf.cm	0.05 kgf.cm
3.6BTG	0.4-3.6 kgf.cm	0.05 kgf.cm
6BTG	0.6-6 kgf.cm	0.1 kgf.cm
9BTG	1-9 kgf.cm	0.1 kgf.cm
15BTG	2-15 kgf.cm	0.2 kgf.cm



M015 45 Degree Automatic Flammability Tester

To determine textile damaged area and length at 45 degree condition and the times of touching flame when textile is melted to specified length after heated at 45 degree condition.

Stainless steel test cabinet with glass observation panel provided with automatic timing of flame spread in 0.1 second increments from ignition. Automatic or manual flame impingement for 1,5 or 20 seconds.

Standards ASTM F963 section A5;



M026 Dry Cleaning Cylinder

To determine appearance color fastness, size change and peeling strength property after dry cleaning via organic solvent and alkaline solution for hot-melt adhesive padding cloth and various textiles. Additionally, combine with various flammability test to preprocess samples before doing flammability test.

Standards

ASTM F963 section A5

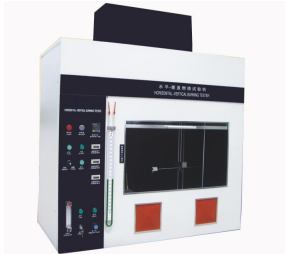


D010A Drying oven/Incubator

To dry, bake and preheat various materials or specimen by hot air circulation method to uniform the temperature distribution. Provided for desiccation, torrefaction, wax-melting and sterilization in mining enterprises, laboratories and scientific research institutes.

Standards

ASTM F963 section A5



TF03 Horizontal and Vertical Flame Chamber

It simulates the influence of early-stage flame when there is a fire around the electric and electronic products, so that to judge the igniting danger degree. It is mainly used in plastic and other non-metallic material sample, solid material. It is also applicable in the Horizontal, vertical flammability test of the relative combustion characteristic of foam plastics whose density is no-less than 250kg/m according to ISO845 test method.

Standards

ASTM F963 section 4.25.10.4



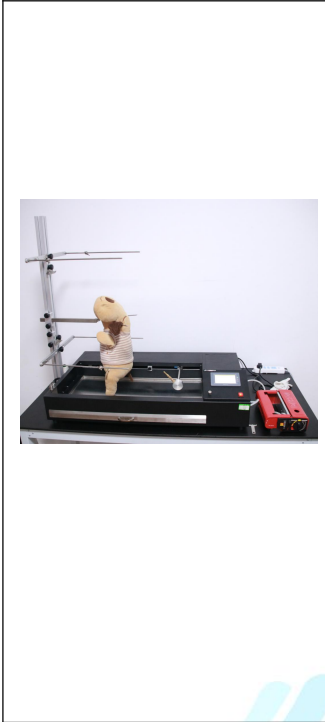
TF01 Glow Wire Tester

It is applicable for electric and electronic products, household appliances and other material's fire hazard testing. It is also used in the No flame ignition source fire test to test initiation temperature and flammability index of related glowing filament.

Standards

ASTM F963 section 4.25.10.4

EN 71-2



T010 Toys Flammability Tester

T010 Toys Flammability Tester is to test the flammability property for children toys or toys materials. Including below:

1. Toys to be worn on the head: beards, moustaches, wigs etc. made from hair, pile or material with similar features; moulded and fabric masks; hoods, head-dresses etc.;
2. Toys to be worn on the head, but excluding paper novelty hats of the type usually supplied in party crackers;
3. Toy disguise costumes and toys intended to be worn by a child in play;
4. Toys intended to be entered by a child;
5. Soft-filled toys (animals and dolls etc.) with a piled surface or textile surface.

Standards

EN 71-2

ISO 8124-2

GB 6675.3

ISO 6941