

SafGuard®

Product Mechanical Safety Testers

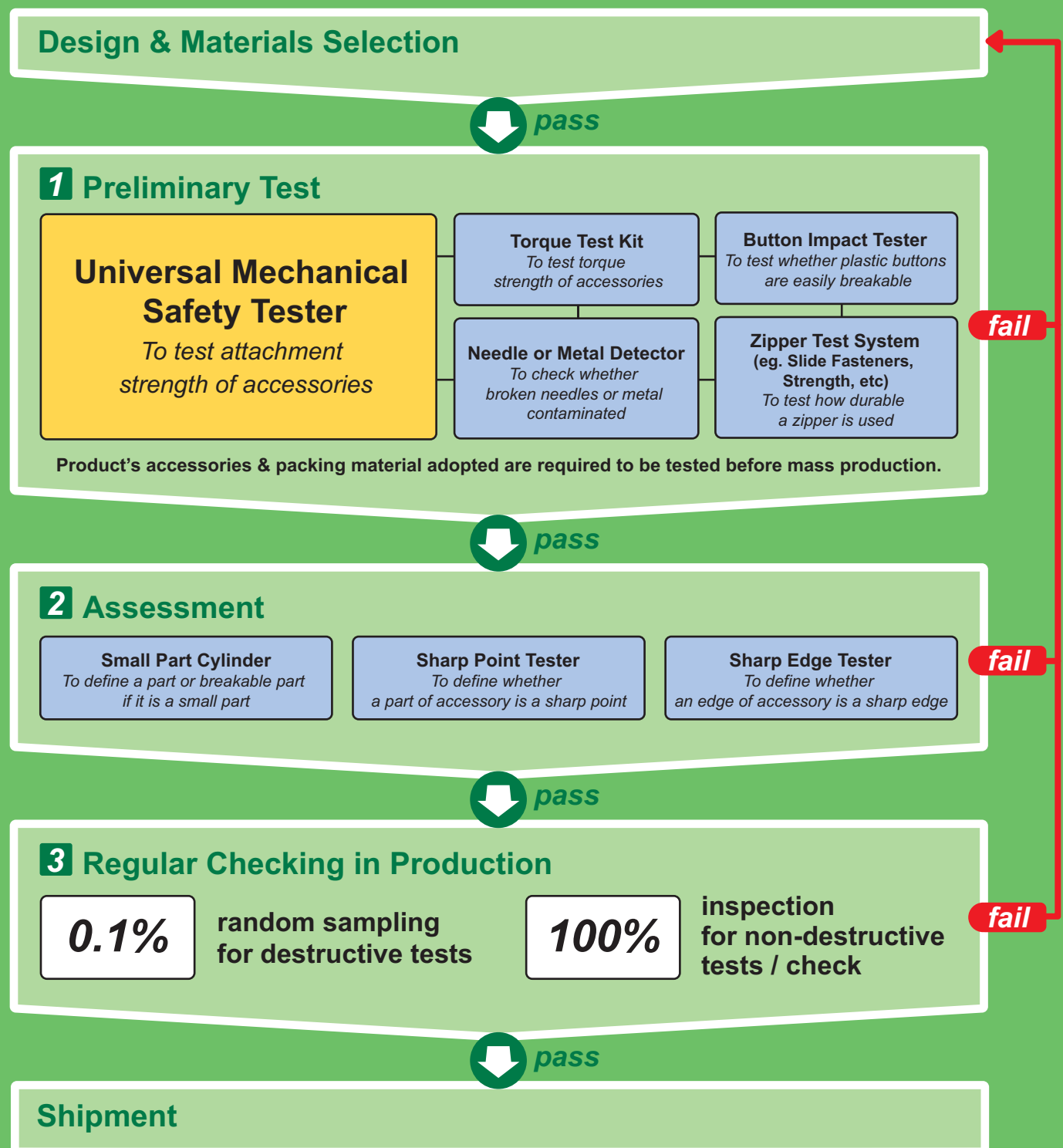


Safeguard Your business !

There are three key Product Safety Tests: Chemical, Flammability, and Mechanical Safety. Usually, the former two tests are needed to test once. However, Mechanical Safety is required to be tested in the process of product design to production mainly because it involves a lot of different workmanship in the process. In order to meet more and more stringent standards & regulations as well as requirements by major retailers in mechanical safety, SafGuard can do for you to supply with a complete line of Mechanical Safety Testers mainly used for Children Garment, Footwear & Toys.

Total Product Mechanical Safety Solution

A proactive process, illustrated below, is the basic of your product integrity policy:



Planning is as natural to the process of success as its absence is the process of failure.

Universal Mechanical Safety Tester

Attachment Strength Tests For All Accessories (e.g. Snaps, Zippers, & Buttons...)

This tester is the unique safety test instrument that provides a means to accurately measure how safe accessories are attached in a product. It is also used to compare a variety of accessories from different vendors in the process from product design to production so that we can safeguard our consumers.

It is a simple but effective design mainly consisting of a high precision gauge, a sturdy stand, and special grips/clamps. It requires very little training. A sample required by standards & regulations is to fix horizontally (constant force is applied to secure the sample) so that snap or other accessories attached in fabric can be clamped into.

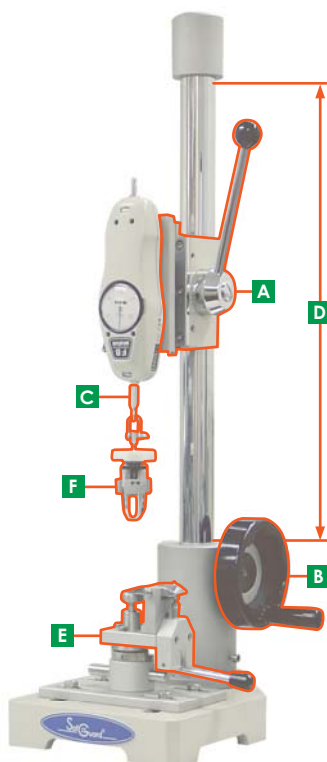
Moreover, a standard weight is also offered so that it can be regularly checked if it meets the safety requirements.

Standards Reference

BV, JAPAN Product Liability Law, ASTM F963, EN 71, M&S P115A (for snap), P115 (for button), ASTM D4846-96 And many others.

Test Interpretation

There are lots of different test interpretations. Take snaps as an example. All snaps are usually tested to withstand attachment strength of 17 pounds (or 7.73 kg) for 10 seconds. If not, it is deemed to be mechanically unsafe unless it is not a small part & there is no sharp edge/point...



SafGuard's Main Outstanding Features & Benefits:

Better Cost-Effective And Quality Design:

- A Ergonomically Constructed**
force meter holder can be retained upwards during sampling
- B User-friendly**
side-wheel operation
- C Economically exchangeable** with a plenty of different of grips/clamps.
- D Longer Stand Spacious** for more applications.

Better Test Reproducibility And Repeatability:

- E Constant Clamping Force in Lower Fabric Clamp (STA-0042)** to minimize operation error.
- F Minimum Clamping Failure & Slippage** chiefly because our **Universal Grip (STA-0041)** can accurately secure snap and does not damage the fabric.

Better Recognition:

- G** Unlike others, SafGuard has been adopted by all world's leading textile testing labs (e.g. **BV MTL ACTS, Intertek, SGS & STR...**) & the most influential retailers / renowned brands (e.g. **GAP, H&M, & Ralph Lauren childrenswear...**).
- H** SafGuard is Patented (No. 2005200005331.0)

Standard Package:

STA-0020

Imada Force Gauge FB-30K

Display the reading of pulling force with capacity up to 30 kg.



STA-0007

Upper Long Nose Vise Grip

Mainly used for trouser hooks and other smaller accessories.



STA-0041

Upper Universal Grip

Test for female part of snap & male part of stud.



STA-0002

Upper Stud Grip

Test for male part of baby snaps but generally Upper Universal Snap Grip can be also applied instead.



STA-0042

Lower Fabric Clamp, Level Arm Locking

Fix the sample with buttons firmly, flatly & constantly so that fabric slippage can be minimized.



STA-0006

Lower Grasp Button Accessory Kit

Convert the original lower fabric clamp for testing the grasp buttons or larger buttons to 30 ligne and it is mainly used together with STA-0005.



STA-0004

Calibration Weight 15LB

Routine checking the accuracy of the Imada Force Gauge.
(15LB = 6.82kg)



STA-0005

Upper Grasp Button Grip

Designed to gripping the grasp buttons or larger buttons, e.g. Jeans or Plastic Buttons up to 30 ligne.



Optional Accessories:

STA-0084

Multifunction Vise Clamp

Fix the garment between the jaw faces and will use with other upper grip for testing other attachments such as Patch, Side Tab, Zipper Puller, etc.



STA-0037

Small Part Cylinder - Plastic

To test whether the garment accessories are classified as "Small Part" or not in accordance with EN71 & ASTM F963



STA-0008

Three Pronged Grip

Test for four-hole buttons & Jeans buttons.



STA-0035

Goggles

To protect the eye of operator.



Notes:

- a Snapping & unsnapping (ASTM D4846) can be done by SafGuard by reverting Imada force gauge for compression.
- b For changing market needs, we have other special clamps, e.g. eyelets.
- c Software driven SafGuard for constant force & speed programmable for more advanced tests can be available upon request (e-mail: hcgartex@gar-tex.biz.com.hk).
- d Universal Grip (STA-0041) & Lower Fabric Clamp (STA-0042) can be used with other similar testers or even with UTM.
- e Other than standard package, there are several models for different requirements of major retailers & different application.

Professional Custom Engineering Services:

To keep up with changing market needs, professional custom designed clamps can be offered upon your request to use together with the apparatus. For quotation, please send us your end-product as samples, preliminary tests, and your specific requirements.

Packing Details:

Length x Width x Height :
98 x 39 x 46 (cm), Gross Weight: 48kg

Other Mechanical Safety Testers :

Torque Test Kit

The Kit is used to evaluate the component of baby / toy products (e.g. zipper puller) whether can be easily detached through torque.



BV Button Impact Tester

This tester is used to evaluate the durability and integrity of a button after being subjected to an impact force which is more realistic than that of ASTM. It covers the measurement of impact energy absorbed by the button. A steel ball in a pipe at a specified height is dropped onto the button.

Standard Reference : BV S1001S

3/4" steel ball
weighing 1.0 ounce



Needle Detector – Conveyor Type

This instrument provides 100% inspection to ensure no broken needle left in a product! Tunnel with 4 sides permanent magnet maintain high sensitivity to maximum 1.0mm (diameter) ferrous ball.



Metal Detector - Tunnel Type

Early detection of contamination affords significant expense since lower value materials rather than finished products are rejected.



Roaches Zipper Slide Fasteners Tester

This tester is used to determine the durability of reciprocating motions for the slide fastener under the lateral and longitudinal strength. The test is performed by the puller of slide fastener reciprocating at a constant speed as 30 times / min till reaching the specified times.

Standard Reference : BS 3084



ASTM Zipper Test Kit

To define the garments manufacturer responsibility and duties to ensure that zips are applied appropriately to all garments. To prevent separation between the scoop (interlocking teeth of a zipper) and the stringer (zipper fabric where the scoop is attached), also to ensure no separation occurs from the pull of the zipper. These factors represent a dangerous situation if any loose part is consumed by an infant. This test kit can be used with UTM as well as SafGuard stand installed with Multi-function Vise (STA-0084)

Standard Reference : ASTM D2061



Small Parts Cylinder – Metal Type or Plastic Type

This helps to determine if accessory of toys or garments is too small that may cause choking hazard to children.



Sharp Point Tester

This tester is used to identify the accessible point that may cause an unreasonable risk of injury to children. Unlike others, standard package includes kit for both EN & ASTM tests.



Sharp Edge Tester

This tester can identify if accessible edge may cause an unreasonable risk of injury to children' skin. The tester can be firmly mounted on the table & can be turned on through its foot-switch so that small specimen can be held stably by both hands together for tests.



Please send me quotation for the following products :

Preliminary Test Equipment :	Assessment Equipment :
<input type="checkbox"/> Universal Mechanical Safety Tester	<input type="checkbox"/> Small Part Cylinder – Metal Type
<input type="checkbox"/> Torque Test Kit	<input type="checkbox"/> Small Part Cylinder – Plastic Type
<input type="checkbox"/> BV Button Impact Tester	<input type="checkbox"/> Sharp Point Tester
<input type="checkbox"/> Needle Detector – Conveyor Type	<input type="checkbox"/> Sharp Edge Tester
<input type="checkbox"/> Metal Detector – Tunnel Type	
<input type="checkbox"/> Roaches Zipper Slide Fasteners Tester	
<input type="checkbox"/> ASTM Zipper Test Kit	

Company Name : _____
Contact : _____
Title : _____
Email : _____
Tel : _____
Fax : _____
Address : _____

Distributed by :

* Subject to continuous product development, specifications change without prior notice.

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