



LUMI

LUMI Testing Programme

All of the Perfect Performance



01 Testing in New Product Development Stage

LUMI performs various tests at the design and product development phases for prototypes, mold samples and pilot production samples.

02 Product Testing and Verification

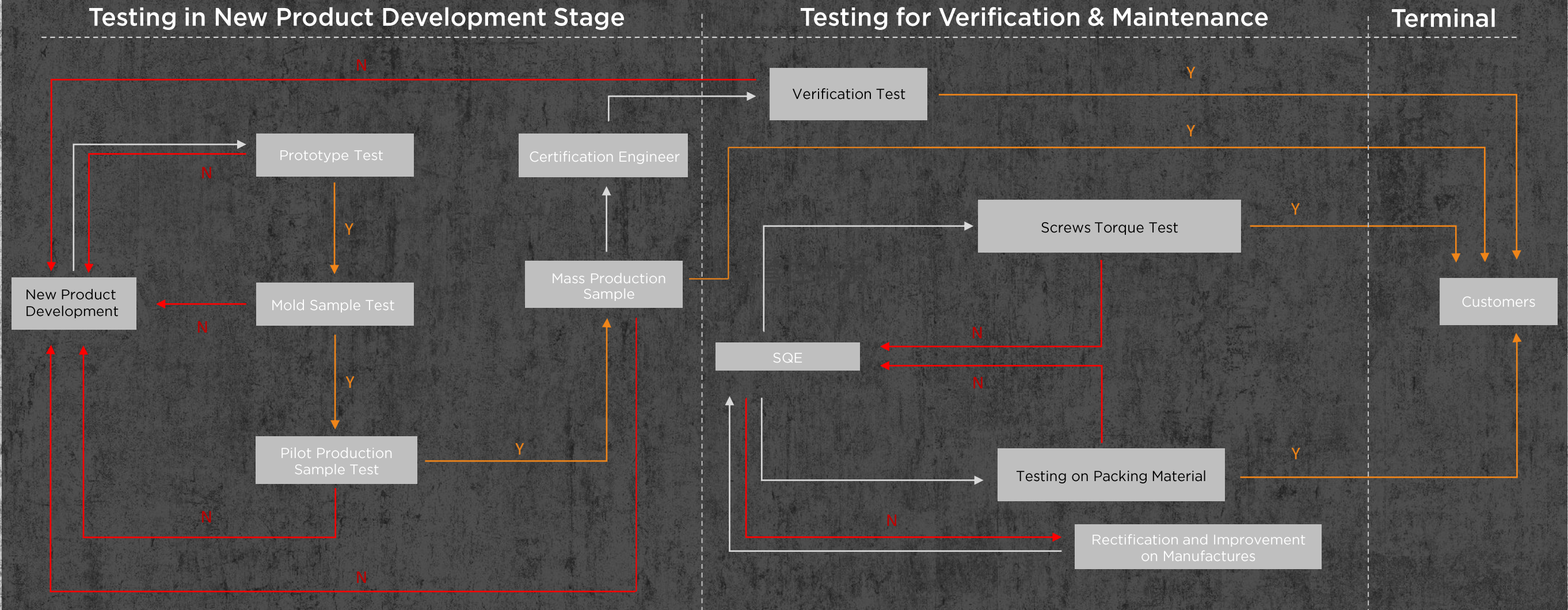
The candidate products are subjected to strict requirements for UL, GS certification appliance.

03 Periodic Testing for Maintenance

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LUMI continuously picks random samples of products and accessories to be exposed to the comprehensive testing programme for maintenance and improvement.

Testing Process System



Testing in New Product Development Stage

- **Multi-Step** Pre-Production Tests
- **Multi-Facet** Performance & Climatic Testing
- **Multi-Category** Life Tests
- **Multi-Wall** Load-Bearing Tests
- **Multi-Condition** Transit Tests

Multi-Step Pre-Production Tests

Reliable foundation of mass production



Prototype Tests

- Prototype Functional Test
- Prototype Load Bearing Test
- User Experience of Prototype



Mold Sample Tests

- Mold Sample Functional Test
- Mold Sample Load Bearing Test
- Mold Sample Packing Test
- User Experience of Mold Sample



Assessment of Pilot Production

- Pilot Production Sample Testing
- Trace & Solve the problem to improve the product quality in mass production

Multi-Facet Performance & Climatic Testing

Function Perfectly Inside and Out



- **Temperature Test**

storage at static cold cycle **-20°C**
and heat **+ 70 °C**



- **Load-Bearing Test**

fulfill **2-time/3-time/4-time** load-bearing requirements



- **Salt Water Spray Test**

exposed to the adverse effects of salt and chemical vapors up to **48hours**



- **Life Test**

subject to continuous dynamic pull and push for required times

Multi-Category Life Tests

All the products comply with the requirements you expect

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- Life Test for **Monitor Arms**
200-time tilting test and articulation test

- Life Test for **Sit-Stand Workstations**
20000-time pull and push test

- Life Test especially for
Gas Spring Monitor Arms

Multi-Wall Load-Bearing Tests

Guarantee security of the installation

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- **Wood Stud Wall** Load-Bearing Test



- **Concrete Wall** Load-Bearing Test



- **Plank Wall** Load-Bearing Test

Multi-Environment Transport Condition Tests

Ensure the safety of transporting in dynamic and challenging environments



Transit Vibration Test

vibrate for **1 hour** at the speed of **210CPM**



Carton's Crush Resistance Test

calculate the pressure value and take the test for **1 hour**



Carton Drop Test

drop to the concrete floor from a certain height according to the product weight, on the most fragile angle and its 3 sides and all 6 surfaces (total of **10 drops**)



Product Testing and Verification

- Life Test
 - Load-Bearing Test
- for UL, GS certification appliance

The product that applied for **UL/GS Certification** is subjected to **strict and repeated testing at our professional in-house UL/TUV Witness Test Labs** where nothing is left to chance.

UL: The bracket bears a **6000 times full-motion test** and a **4-time load-bearing test** (for wood stud wall and concrete wall) which lasts **5 minutes**

GS: The bracket bears a **5000 times full-motion test** and a **3-time load-bearing test** (for concrete wall) which lasts **1 hour**



Periodic Testing for Maintenance

- Self-Drilling screw torque tests
- Paperboard burst strength test & Carton's crush resistance test of packing material
- Functional test and the load-bearing test of products

Torque Test of Screw

Subject each tiny screw that will be used in our designs

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The self-screw torque test will be conducted **once a season** to ensure all the products function perfectly.

- The torsion of the self-drilling screws has to up to the standard of **136 kgf.cm**
- Twist the screws which up to the standard with increased torsion until they disintegrate



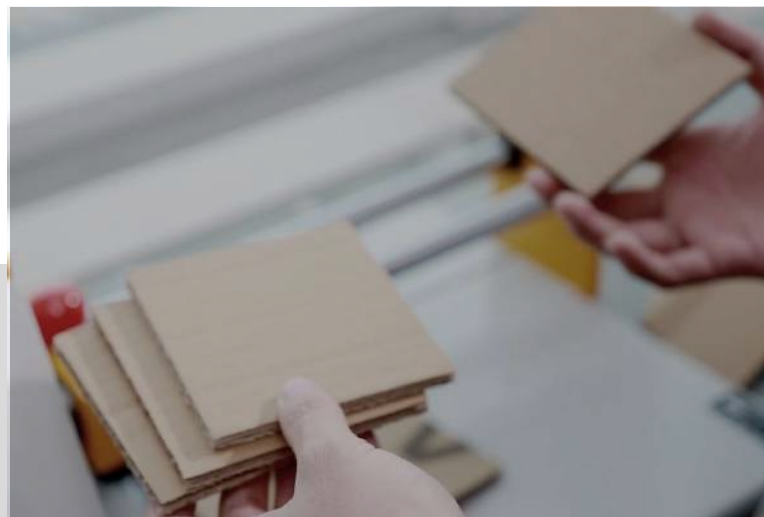
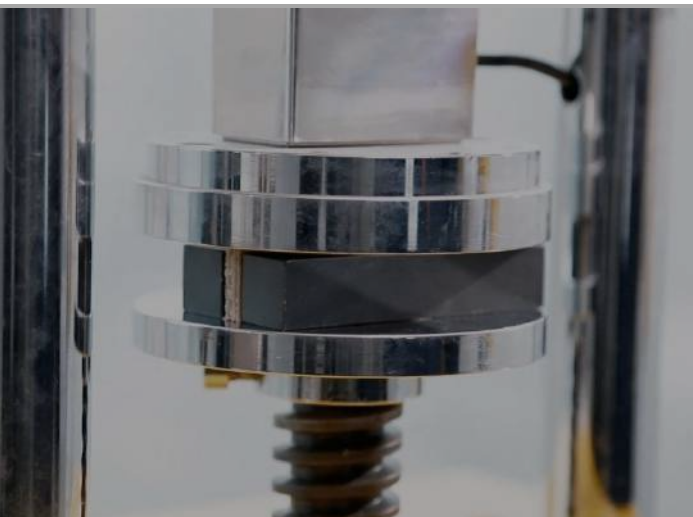
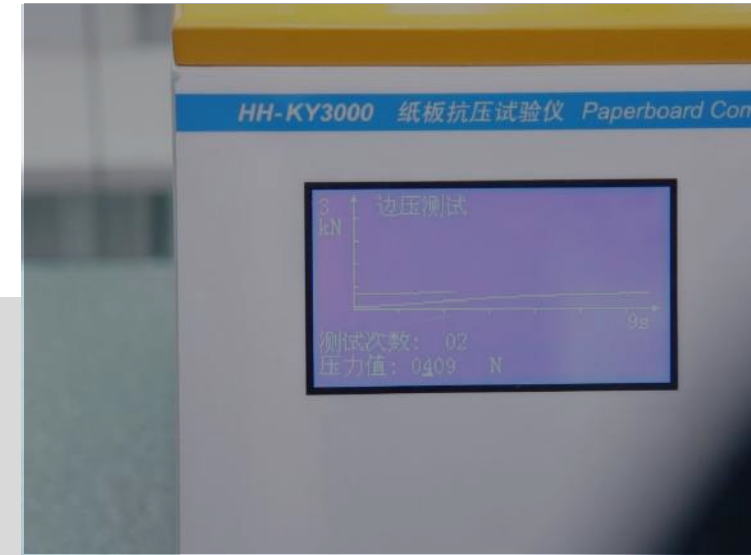
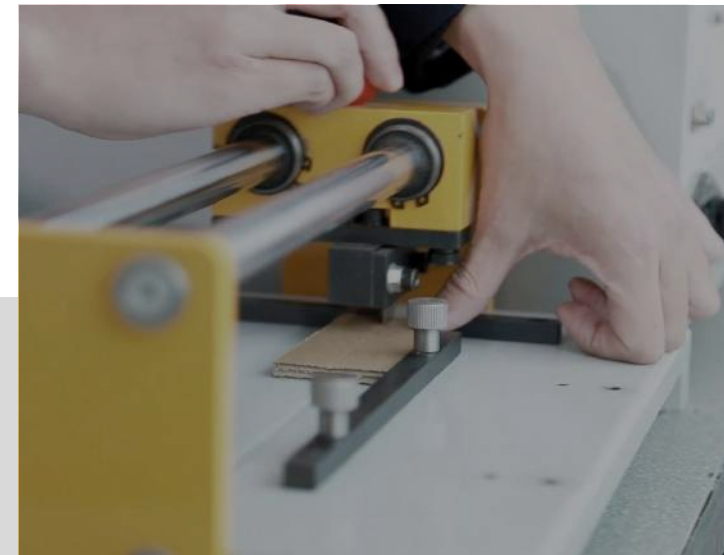
Test on Packing Material

Master the details

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Tests will be conducted
once half a year
on packing material
to secure the product while transporting.

- Carton's Crush Resistance Test



- Paperboard Burst Strength Test



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**Choose LUMI ,
Your Reliable Business Partner.**

We commitment to
products and service with quality assured.

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