CENTROTECNICA

stress to ensure

TRANSPORT SIMULATION TESTING

- Over **30 years experience** in the environmental testing, especially for **vibration, shock and combined tests.**
- The most equipped **range of shakers** in Italy (from 0.3 to 74 kN, up to 100 mm displacement).
- A whole range of machines for **drop, compression, altitude, acceleration and impact test.**
- Climatic chambers for **climatic and combined test** (vibration and temperature).

One of the best ways for packaging company to determine if a transport packaging is indeed good is to perform a Transport Simulation testing in the laboratory, including impact, compression, drop, vibration, altitude and climatic conditioning tests.

Transport Simulation testing aims at simulating what a package system (single box, case, pallet) will encounter in the actual distribution environment.

By providing a controlled and repeatable setting, the laboratory can check the ability of the packaging to withstand the distribution environment, protect the packaged items from damages and/or maintain sterility.

This is key information for packaging producers and for the goods shipment sector.

DIFFERENT SHIPPING UNITS

SINGLE BOXES - CASES - PALLETS

MAIN STANDARDS AND PROTOCOLS

ASTM D4169 - ASTM D7386 - ISTA - UNI EN 22248/ISO 2248

ISTA 6 - series (Amazon / FedEx / Samsclub)

MAIN SECTORS

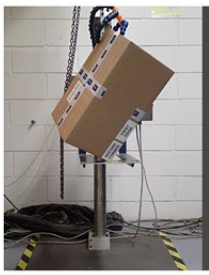
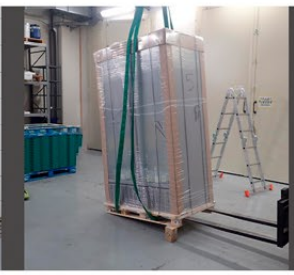
MEDICAL & PHARMA - FOOD & BEVERAGE - CHEMICAL - LUXURY - BEAUTY & COSMETICS

ista CERTIFIED LABORATORY

ID member: 10913

For info or RFQs, pls contact us at mail: info@ctecnica.it - phone: +39(0)255305888

Centrotecnica S.r.l. via Confalonieri, 23 - 20060 - Masate - MI - Italy www.ctecnica.it

Manual/Mechanical Handling

To determine the ability of the shipping unit to withstand the impacts prevalent in the distribution environment.

Warehouse/Vehicle Stacking

To determine the ability of the shipping unit to withstand the compressive loads occurring during warehouse storage or vehicle transport.

Loose Load Vibration

To determine the ability of the shipping unit to withstand the repetitive shocks occurring during transportation of bulk or loose loads.

Low Pressure (High Altitude)

To provide for the anticipated reduction in pressure when packaged products are transported by feeder aircraft or by ground over mountain passes.


Stacked/Vehicle Vibration

To determine the shipping units ability to withstand the vertical vibration environment during transport (truck/air/rail) and the dynamic compression forces resulting from vehicle stacking.

Concentrated Impact

To provide a simulation of anticipated low level concentrated impacts as received by packages during sorting operations and in transit.



Conditioning

To simulate temperatures and atmospheric conditions that could affect packaging material properties.

Side/Incline Impact

To determine the ability of the shipping unit to withstand the impacts prevalent in the distribution environment.