

Precision drop tester



The transport and distribution environment holds numerous opportunities for packages to experience impacts and/or drops. As a result, shock is transmitted both into, and throughout, a given package. The products within the packaging respond to both the amplitude and frequency characteristics of the shock. How the various packaging components mitigate that shock determines how much shock is transmitted into the product held within.

Lansmont Drop Test Systems are used to perform pre-shipment testing in an effort to design and verify costeffective, optimized protective packaging solutions.

Performance specifications

- » Maximum Package Weight:
 - » Standard platen 177 lbs. (80.0 kg)
 - » Extended platen option 150 lbs. (68.0 kg)
- » Maximum Package Size:
 - » Standard platen 24.0 in. (61.0 cm) front to back
 - » Extended platen option 36.0 in. (91.5 cm) front to back
- » Drop Height Range:
 - » Standard baseplate 12.0 - 72.0 in.(30.5 - 183 cm)
 - » Slotted baseplate option 1.0 - 72.0 in. (2.5 - 183 cm)
 - » Extended platen option 18.0 - 72.0 in. (45.7-183 cm)

Specifications

Dimensions:

- » Height: 106 in. (269 cm)
- » Baseplate width: 36 in. (91 cm)
- » Baseplate length: 55.5 in. (141 cm)



Handheld controller

The rugged handheld controller provides all necessary functionality for using Lansmont's Precision Drop Test Systems. The user can select the desired drop height via the controller and the machine will automatically move the drop platen to this height setting. No tape measure or manual adjustment is needed. All important information about the drop tester or the current settings is easily read on the LED screen on the front of the controller pendant.

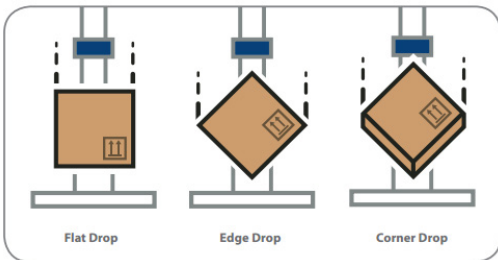
Precision cam design

Lansmont's precision cam and bearings design is a key machine feature for producing a flat drop event. When the drop tester is armed and fired, the drop leaf first moves straight down faster than the package and then swings out of the way in time to clear the path for the package's free fall.



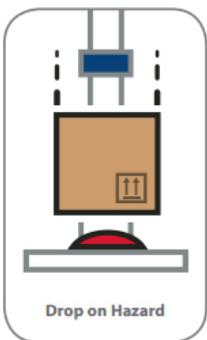
Electric Hoist

If you are changing drop heights frequently or testing heavier packages, it pays to have a lifting mechanism to keep you from having to do all of this work manually. The PDT 80 features an electric hoist for raising and lowering the drop leaf assembly and test package.



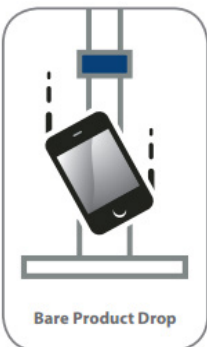
Controlled orientation

Test procedures and industry standards specify the requirement for controlled orientation drops, resulting in test sample impacts on predetermined faces, corners and edges. Lansmont Precision Drop Testers are built in accordance with ASTM D5276 requirements.



Hazard drops

In reality, not all items are dropped on flat, laboratory-style floors. In fact, some small parcel distribution tests require drops to occur on a predetermined hazard.



Product drops

Lansmont customers use drop testers to perform bare product drop testing to simulate in-use events that may occur once out of their protective packaging and in the hands of the consumer.



Extended height

Dangerous goods packages undergo severe drop tests during certification testing. Other high performance products and packages also need to survive high energy impacts. Lansmont offers extended height drop testers to satisfy these testing applications. Custom drop height options are available to extend your machine's drop height range.