

Competence creates Confidence.



● Model no. 1529/1543

IMPACT DROP TESTERS FOR PACKAGING

ASTM D 2463

Model 1529: Sample weight max. 150 kg
Model 1543: Sample weight max. 300 kg



You can test packaging of varying shapes and sizes for impact stress after free fall using IPT's drop testers. The packaging can be tested with its content and may consist of cans, barrels and boxes. The holding device on the platform

holds the sample in various predefined drop positions. As the platform swings away faster than the sample's rate of acceleration, the sample's alignment does not change. This means it hits the floor at the previously set position.

Sample in free fall

Structure

- These devices are fundamentally very similar and mainly differ on their maximum load capacities (sample weights). They are equipped with a post on which a lifting device with a platform moves vertically. The controls are housed in a control cabinet situated outside of the hazardous area.
- A touchscreen installed in the control cabinet allows the user to set the parameters of the test.
- A respective low loading sills allow for the platforms to be loaded easily.

Mode of operation

- Once the sample is secured in the special holding device on the platform, the lifting device can be moved to the desired drop height.
- The spring-loaded platform folds down after the release is triggered.
- The sample free-falls and in its original position onto the impact platform.



Standard features

- | | |
|---|--|
| ● Motorised design (models 1529, 1543) | ● Three-phase motor for positioning the platform |
| ● Model 1529:
max. drop height of 3 m with a total height of 4.9 m | ● Model 1543:
max. drop height of 3 m with a total height of 4.9 m |
| ● Operated using a touchscreen | ● User is protected by operating the controls outside of the hazardous area (e.g. behind a suitable protective wall at a safe distance from the tester frame) or outside the test room |
| ● Acoustic signals | ● Determining drop height using digital distance measurement |
| ● CE conformity | |

Options

- | | |
|---|--|
| ● Model 1529:
max. drop height of 6 m with a total height of 8 m | ● Tests can only be carried out when the safety doors are closed |
| ● Safety fence with safety door | ● Stainless impact plate 1,000 x 1,000 mm |

Design of DROP TESTER FOR PACKAGING

		V1529	V1543
Max. sample weight	kg	150	300
Max. lifting speed	m/s	0.5	
Positioning accuracy	mm	± 10	
Height positioning and automatic		release	
Lowest loading sill	mm	180	
Compressed air supply (not included in the scope of delivery)	bar	7 - 16	
Platform with holder (Width x Depth)	mm	700 x 700	
Permissible ambient temperature	°C	+ 5 to + 35	
Permissible relative humidity	%	max. 70 non-condensing	
Noise emission	dB(A)	< 70 at idle (noise development during impact: depends on material of sample.)	
Voltage data		230/400 V 50/60 Hz special voltage on request	