

Drop Tester for Light Weight Products

DT-205 DT-205H

The DT-205/DT-205H are drop testers designed for products, containers and packaging materials weighing up to 5 kg. They can be used for drop testing in a broad variety of industrial areas, including those of electronic devices, such as notebook PCs and HDDs, medical products, cosmetics and food products.

Principal features:

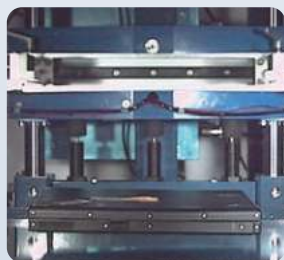
- + Hold the test sample in any desired attitude.
- + Drop in a stable falling attitude with high repeatability.
- + Simple operation achieves highly efficient testing.
- + Sturdy mechanism makes maintenance easy.

Drop test of a notebook PC by the DT-205H (Ultra-high speed shooting)

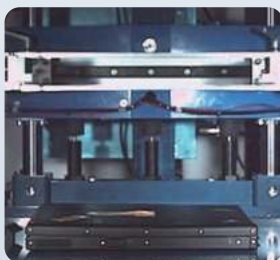
▶ 0.01sec.



▶ 0.04sec.



▶ 0.06sec.



The support section is instantaneously separated to the right and left at the preset height, dropping the sample in a free fall. The test sample (notebook PC) falls precisely maintaining the attitude in which it was held until that moment, horizontal in this case. The test sample can be held in any attitude other than the horizontal and dropped as is in a free fall.

Specification

Item:	DT-205	DT-205H
Max. mass of test sample:	5kg	5kg
Drop height range:	250mm - 1,500mm*	250mm - 2,000mm*
Drop height setting method:	By the scale and setting guideline.	
Drop motion of test sample support table:	By the permanent electromagnetic holder.	
Fastening and dropping operation of test sample:	By the pneumatic pen cylinder.	
Installation size of tester:	W:700mm x D:600mm	W:900mm x D:800mm
Dimensions of tester:	W:700mm x D:600mm x H2,500mm	W:900mm x D:800mm x H3,000mm
Mass of tester:	Approx. 180kg	280kg
Power supply:	100 VAC, single-phase, 5A	
Feed air pressure:	0.69MPa or higher	
Operating environment temperature range:	5°C - 35°C	

*The test sample motorized support table goes automatically up and down.



Drop height range of test sample 250 ~ 1,500/2,000mm
(DT-205) (DT-205H)

Max. mass of test sample
5kg

Drop testers for lightweight products that meet a wide gamut of testing needs, including digital mobile devices, various packaged products, and other requirements.

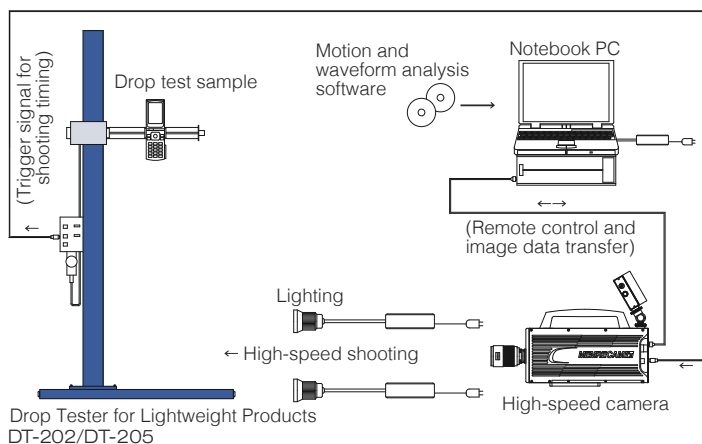
Simple operation

- Holds the test sample in any attitude and drops it in a free fall to test its shock resistance.
- The drop height can be easily set with the scale.
- The test sample is fastened by a pneumatic pen cylinder.
- * Holding and dropping of the test sample are executed via a controller.

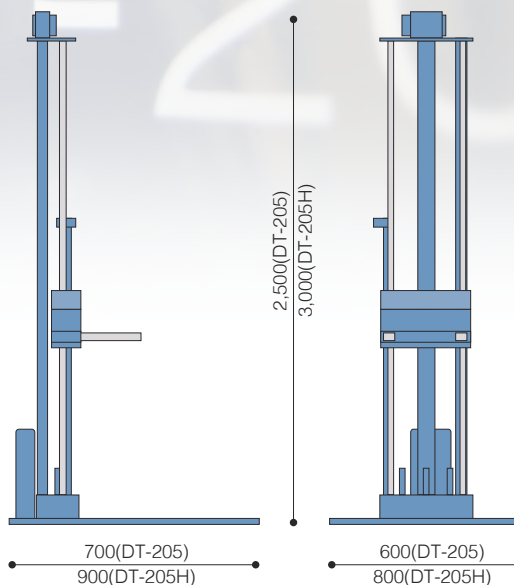
Sample applications

- Various types of packaged products, notebook PCs up to A4-format size, mobile devices, including cellular phones and PDAs, and a great variety of other electronic devices and PCBs can be subjected to the drop test.
- When combined with our analysis system (Shock Manager), these testers are capable of measuring various accelerations and analyzing their data.

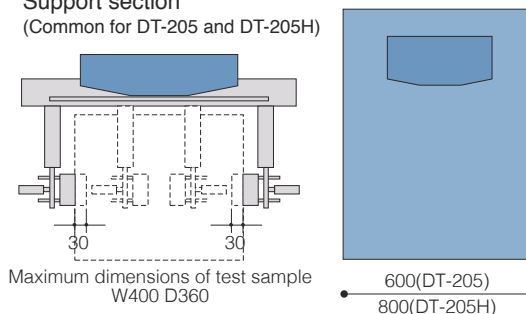
Sample configuration of analysis system with high-speed camera



Dimension (mm)



Support section (Common for DT-205 and DT-205H)



• Plastic bottle



• Household detergent (Soft package)



• Cellular phone (Folding type)

When the above analysis system is built using a high-speed camera, "shocks" can be visually observed.