

PDT-227 Precision Drop Tester

Lansmont's Precision Drop Tester Model PDT-227 was designed to pick up and drop heavy packages and test specimens weighing up to 500 Lbs. (227 kg). The PDT-227 utilizes a high-strength welded steel drop platform which rides on precision bearings. When a drop test is initiated, the drop carriage is accelerated straight down from underneath the test specimen, imparting no rotational forces and insuring a flat drop. The drop carriage of the PDT-227 falls into slots on the machine's foundation and its motion is arrested by a hydraulic shock absorber and high-damping elastomer snubbing devices, preventing the carriage from rebounding back into the test specimen. The PDT-227 utilizes a heavy-duty electric hoist for picking up and positioning test loads. The electric hoist incorporates an internal brake system which is set to prevent accidental drops in the event of power loss. Positioning is infinitely variable within the drop range of the machine.

The PDT-227 also utilizes Lansmont's Micro-Test™ hand-held control system for conveniently operating the test system. The MicroTest™ controller allows the user to program drop heights, assign a "Height Return" so that the drop carriage automatically returns to the same height after picking up a package, and drop and reset functions. LCD display reads drop heights in either inches or centimeters and is selectable by the user.



PDT-227 Features:

- Concrete floor mounting included. Lansmont provides concrete forms and all hardware. This allows the drop carriage of the PDT-227 to fall into laboratory's concrete floor. No package dimensional restrictions in the side-to-side orientation.
- Electric Hoist and Micro-Test™ controls for simple machine control.
- Safety features include separate "Arm" and "Drop" buttons and an integral hoist braking system which prevent inadvertent drops.
- Meets and exceeds industry standards: ASTM, ISTA, ISO, etc.
- Worldwide Customer Service department.

PDT- 227 Options:

- **Optional steel base.** Provides a machined steel base that the carriage recesses into. This option allows easy relocation of test system, if necessary.
- **Velocity Sensor.** Includes all hardware to monitor impact velocity of test specimen.
- **Installation Kit:** Includes everything necessary for installing the drop tester, including hardware, low-pressure hose fittings, and plant-air regulator.

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TECHNICAL SPECIFICATIONS

HEAVYWEIGHT DROP TESTER	PDT-227	PDT-227 STEEL BASE
PHYSICAL		
Maximum Package Weight	500 Lbs. (227 kg)	500 Lbs. (227 kg)
Maximum Package Size:		
Side-to-Side	No Restriction	60 in. (152 cm) (Limited by impact surface size)
Height	No Restriction	No Restriction
Front-to-Back	44 in. (112 cm)	42 in. (107 cm) (Limited by impact surface size)
Drop Height Range	1in. – 72 in. (2.54 cm – 183 cm)	1 in. – 72 in. (2.54 cm – 183 cm)
Drop Height Increments	Infinitely Variable	Infinitely Variable
Drop Platform Size	27 in. (68 cm) Front-to-Back	27 in. (68 cm) Front-to-Back
UTILITIES		
Voltage	115 – 220 VAC	115 – 220 VAC
Frequency	50 Hz – 60 Hz	50 Hz – 60 Hz
Phase	Single	Single
Current	7.5A – 15A	7.5A – 15A
Plant Air	90 psi (6.1 atm)	90 psi (6.1 atm)
DIMENSIONS		
Overall Machine Height	104 in. (264.2 cm)	112 in. (284 cm)
Base Size:		
Front-to-Back	Unlimited, if cast flush with floor	62 in. (157 cm)
Width	Unlimited, if cast flush with floor	64 in. (163 cm)
Shipping Weight	1,000 Lbs. (455 kg)	6,500 Lbs. (2,950 kg)

