

PDT-56ED Precision Drop Tester

The Precision Drop Tester Model PDT-56ED is Lansmont's most popular drop test system. The PDT-56ED utilizes a unique combination of precision guiding and high-speed pneumatics for superior accuracy. For positioning, the PDT-56ED incorporates an electric hoist for rugged, dependable service. The hoist allows operators to pick up heavy, cumbersome packages and position them accurately at the chosen drop height. The PDT-56ED also includes Lansmont's exclusive Micro-Test™ hand-held controller. 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, drop and reset functions, and selection between the hand-held controller or the included foot-switch. LCD display reads drop heights in either inches or centimeters and is selectable by the user. For accuracy, dependability, and user convenience, the PDT-56ED with Micro-Test™ controls is a hard combination to beat!



PDT-56ED Features:

- Pneumatic Cylinder: Fires the drop leaf straight down at acceleration levels greater than 1 g, imparting no rotational forces on the package and assuring accurate, repeatable flat drops.
- Pneumatic brake system insures rigidity once the system is armed and ready to fire
- Electric Hoist and Micro-Test™ controls for simple machine control.
- Safety features include separate "Arm" and "Drop" buttons which prevent inadvertent drops.
- Meets and exceeds industry standards: ASTM, ISTA, etc.
- Worldwide Customer Service department

PDT-56ED Options:

- **Extended Platen:** This option increases the front-to-back capacity of the drop tester from 24 in. (61 cm) to 36 in. (91.4 cm).
- **Oversized Baseplate:** For testing larger specimens. Increases baseplate size from 53.5 in. x 36 in. (135.9 cm x 91.4 cm) to 53.5 in. x 60 in. (135.9 cm x 152.4 cm).
- **Additional drop height:** Allows the PDT-56ED to drop from higher than standard drop heights. Up to a maximum of 168 in. (427 cm).
- **Slotted Baseplate:** Allows drops from as low as 1 in. (2.54 cm). Requires special concrete foundation. Includes concrete forms.
- **Edge and Corner Holding Fixture:** This device consists of a flexible support secured to the top of the pneumatic cylinder to hold packages in position for edge drops and corner drops.
- **Installation Kit:** Includes everything necessary for installing the drop tester, including concrete anchors and drill bit, low-pressure hose fittings, and plant-air regulator.

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TECHNICAL SPECIFICATIONS

PHYSICAL		
	STANDARD PLATEN	EXTENDED PLATEN
Max. Package Weight	175 lbs. (79 kg)	150 lbs. (68 kg)
Max. Package Size:		
Length	No Restrictions	No Restrictions
Width	24 in. (61 cm)	36 in. (91.4 cm)
Height	No Restrictions	No Restrictions
Flatness of Drop	Meets ASTM D-775	Meets ASTM D-775
Drop Height Range:		
Standard Baseplate	11 – 72 in. (27.9 – 182.9 cm)	18 – 72 in. (45.7 – 182.9 cm)
Slotted Baseplate	1 – 72 in. (2.54 – 182.9 cm)	1 – 72 in. (2.54 – 182.9 cm)
Additional Drop Height Option:		
Standard Baseplate	11 – 144 in. (27.9 – 365.8 cm)	18 – 144 in. (45.7 – 365.8 cm)
Slotted Baseplate	1 – 144 in. (2.54 – 365.8 cm)	1 – 144 in. (2.54 – 365.8 cm)
Drop Height Increments	Variable 0.10 in., 0.25 cm	Variable 0.10 in., 0.25 cm
UTILITIES		
Voltage	100 – 240 VAC	
Frequency	50 Hz – 60 Hz	
Phase	Single Phase	
Current	10A (115 VAC), 5A (230 VAC)	
Plant Air	60 psi (4.1 ATM)	
DIMENSIONS		
Overall Height:		
Standard	106 in. (269.2 cm)	
With Maximum Drop Height Option	178 in. (452.1 cm)	
Baseplate Dimensions:		
Standard	53.5 in. x 36 in. (135.9 cm x 91.4 cm)	
Oversized	53.5 in. x 60 in. (135.9 cm x 152.4 cm)	
Shipping Weight	550 Lbs. (250 kg)	

