

## Squeezer Compression Test System

The Squeezer provides the most accurate means of determining top-to-bottom compression strength of packages. This system is specifically designed to quantify box performance so that the effect of various board mediums, closures and interior partitions can be factually compared by means of "Load Sharing" analysis. Production line variations can be easily benchmarked against design standards. The Squeezer is easy to operate because standard test routines are fully automated.

Lansmont compression testers are thoroughly calibrated and documented in accordance with ASTM E4 standards. They fully satisfy test protocol defined in ISTA, ASTM D642, D4169, D4577; TAPPI T804, Federal 101, NMFC Item 180, DOT Rule 181, UN Orange Book, ISO 2872 and ISO 874.



### Squeezer Features:

- Touchscreen user interface eliminates operator keyboard errors.
- Automated constant rate and constant load routines for standard industry test protocols ensure test repeatability.
- Completely self-contained design eliminates cable and hose entanglements.
- Real-time display of test data: force, deflection, temperature, humidity, and peak values gives operator exact status.
- Serial port enables easy data export to SPC or other database systems for integration with other test attributes.
- Worldwide Customer Service department.

### Compression Testing Benefits:

- Verify theoretical top-to-bottom compression strength
- Monitor production line or vendor quality
- Compare package design options
- Simulate distribution cycle hazards: warehouse stacking, vehicle stacking




# Squeezer Compression Test System

## TECHNICAL SPECIFICATIONS

PHYSICAL	
Maximum Force	5,000 lbs (2,268 kg)
Platen Size	30 x 30 in. (76 x 76 cm)
Maximum Load Opening	48.5 in. (123.2 cm)
Upper Platen Style	Fixed
Drive System	Electric motor with ball screws and self lubricating bearings
Calibration	In accordance with ASTM E4
SYSTEM PRECISION	
Force:	
Type	Balanced Temperature Compensated Load Cell
Accuracy	Better than 1% of Reading
Resolution	
<312.5 lbs.	0.076 lbs. (0.3 kN)
312.5 to 625 lbs.	0.153 lbs. (0.7 kN)
625 to 1,250 lbs.	0.305 lbs. (1.4 kN)
1,250 to 2,500 lbs.	0.610 lbs. (2.7 kN)
2,500 to 5,000 lbs.	1.220 lbs. (5.4 kN)
Displacement:	
Type	Digital Rotary Encoder
Accuracy	0.002 in. (.05 mm)
Resolution	0.00025 in. (.006 mm)
Temperature:	
Accuracy	+/- 0.36 degrees F (+/- 0.2 degrees C)
Range	-4 to 176 degrees F (-20 to 80 degrees C)
Humidity:	
Accuracy	+/- 3% RH
Range	0 to 100%
PLATEN SPEED	
Platen Speed:	
Test	0.1 to 0.51 in. per minute (0.25 to 1.30 cm/min)
Positioning	0.1 to 27.6 in. per minute (0.25 to 70.1 cm/min)
CONTROL	
	LCD Touchscreen recessed in base of test machine



CONTROL MODES	
Constant Rate Test	Auto Home, Pre-load, Yield, Stop Force, Tare, Up/Down, Auto Open, Start/Stop, Graph, Peak Hold, Export
Constant Load Test	Force Level, Test Duration, Auto Home, Pre-load, Yield, Creep, Auto Tare, Up/Down, Auto Open, Start/Stop, Graph, Export
Utilities	Time, Date, metric/English, Units, Test Speed, Password Administration, Display contrast
Calibration	ASTM E4 calibration table, Sensor calibration parameters
Data output	Serial Port
SAFETY PROVISIONS	
Safety Provisions	* EPO emergency stop button, platen over-travel, platen lock detector, 24 volt control voltage CE Compliant
OPTIONS	
Options	 <ul style="list-style-type: none"> <li>* Small Test Stand 30 in. Tall x 42.5 in. Wide x 30 in. Deep (76.2 cm x 108 cm x 76.2 cm)</li> <li>* Large Test Stand 30 in. Tall x 72.5 in. Wide x 30 in. Deep (76.2 cm x 184 cm x 76.2 cm)</li> <li>* Temperature &amp; Humidity Sensor</li> </ul>
OVERALL DIMENSIONS	
Without Stand	67.0 in. tall (170.2 cm tall) 42.5 in. wide (107.9 cm wide) 36.6 in. deep (92.9 cm deep)
With Small Stand	95.5 in. tall (242.6 cm tall) 42.5 in. wide (107.9 cm wide) 36.6 in. deep (92.9 cm deep)
With Large Stand	95.5 in. tall (242.6 cm tall) 72.5 in. wide (184 cm wide) 30.0 in. deep (76.2 cm deep)
APPROXIMATE WEIGHT	
Without Stand	725 lbs. (329 kg)
With Stand	1,000 lbs. (454 kg)
Electric Power Requirements	110 VAC, 10 Amps, 60 Hz or 220 VAC, 5 Amps, 50 Hz