Compression Test Systems





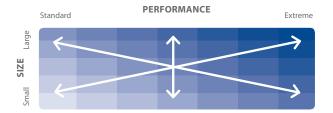
Squeezer Compression Tester





MADE TO ORDER

Not quite the equipment size or performance level that you need? If we do not already manufacture the test machine ideally suited for your company's testing applications, our engineering team can custom design a test system specific to your needs.



Severe compressive forces occur when packaged-products are stacked during transit or storage. To evaluate the performance of packages, components, and materials under such loads, Lansmont offers a full line of Compression Testers. Lansmont Compression Testers comply with industry standard package testing specifications including ASTM, ISTA, ISO, and MIL-STD.

PERFORMANCE SPECIFICATIONS

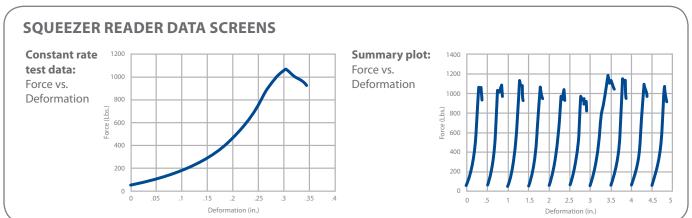
Maximum Package Dimensions:				
Length	30 in. (76 cm)			
Width	30 in. (76 cm)			
Height	48 in. (122 cm)			
Contact Lansmont for larger configurations.				

Verified Force Range: 500 – 5,000 lbs. (2.22 – 22.2 kN)

Positioning Speeds

Platen positioning speed 27.6 in./min. (70 cm/min.) Test speed range 0.1 to 0.51 in./min. (1.27 cm/min.)

Testing Modes: Constant rate Constant load



Squeezer Compression Tester $\overset{\smile}{\sqcap}$

Lansmont Field-to-Lab®

FEATURES



Touchscreen Controller:

The Squeezer uses a digital control system for all machine control and data acquisition. The controls are operated through a touch screen display located on the front panel of the machine. All machine setup, data collection, and data export functions are handled though this backlit, color I CD touch screen.



Self-Contained Design:

The self-contained Saueezer desian includes a base cabinet that encloses the drive motors, load cell, instrumentation,

and control electronics. Electrical power is the only utility needed. Simply plug the machine into an outlet and begin testing!



The smooth, accurate motion of the Squeezer during testing is the result of using precision ball screws to apply compression forces.

Precise Control:

Force is measured using a parallelogram-type load cell. Deflection is measured using a precision shaft encoder.

OPTIONS



Fixed/Floating Platen:

The Fixed/Floating platen option gives vou increased flexibility in your testing applications.

In the floating

orientation, the platen is free to swivel during testing via a "monoball" bearing. In the fixed orientation, adjustable limit stops are used to lock out the lower platen so it is in a fixed orientation during testing.



Oversized Platen:

To accommodate larger box designs, the Squeezer can be built with an Oversized Platen. This increases the maximum package

footprint dimensions to 30 x 44 in. (76 x 112 cm). An Oversized Fixed/Floating platen option is available as well.



Machine Test Stands:

Machine Test Stands provide a stable steel surface to position the machine (standard height is 30 inches (76 cm)).

Test Stands are available in two different widths: 42.5 in. (108cm) or 72.5 in. (184 cm) Large Test Stands also provide a work surface for specimen preparation or staging.



Temperature/ **Relative Humidity** Sensor:

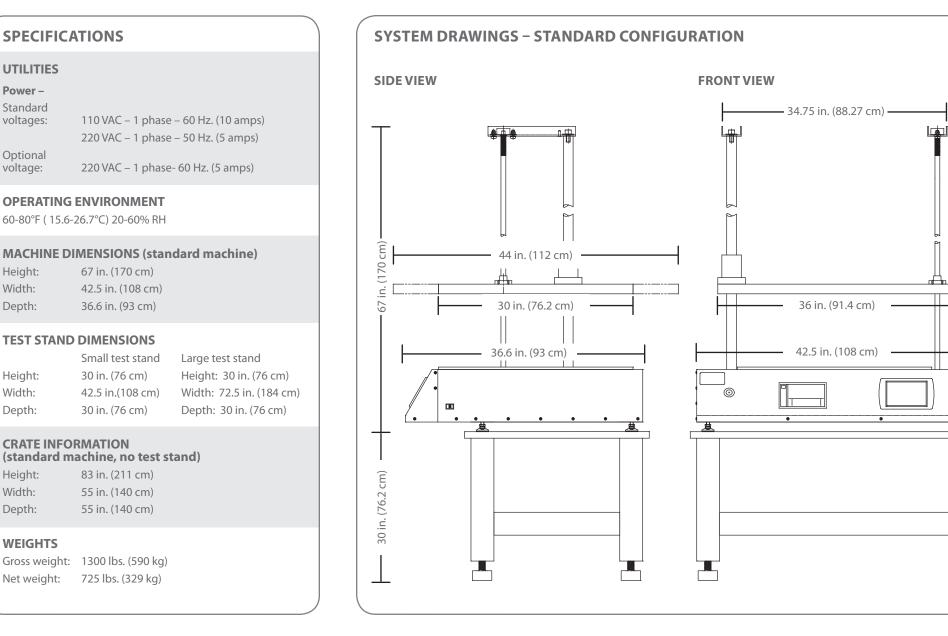
The optional probe mounts to the back of the Squeezer near to where test specimens sit during

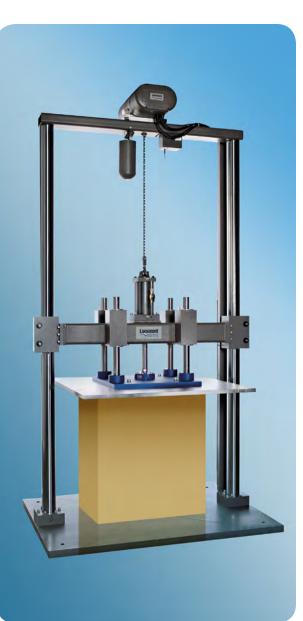
testing. The sensor can effectively measure in a 0 – 100°F temperature and 0 – 100% relative humidity range.



Squeezer Compression Tester







Severe compressive forces occur when packaged-products are stacked during transit or storage. To evaluate the performance of packages, components, and materials under such loads, Lansmont offers a full line of Compression Testers. Lansmont Compression Testers comply with industry standard package testing specifications including ASTM, ISTA, ISO, and MIL-STD.

PERFORMANCE SPECIFICATIONS

Maximum Package **Dimensions:**

48 in. (122 cm) Length Width 48 in. (122 cm) 78 in. (198 cm) Height

Contact Lansmont for larger configurations.

Verified Force Range:

1,500 - 15,000 lbs. (6.67 - 66.7 kN) Contact Lansmont for extended range options.

Positioning Speeds:

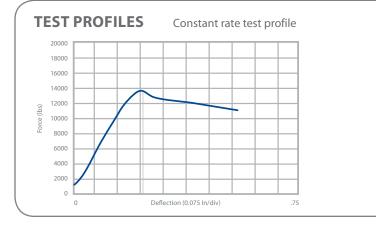
Cross-head	16 ft./min.
	(4.88 m/min.)
Test speed	0.5 in./min.
	(1.27 cm/min.)

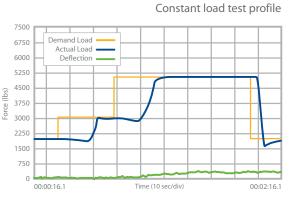
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Testing Modes:

Field-to-Lab[®]

Constant deflection rate Ramp to load and release Load profile simulation Deflection profile simulation





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test results via e-mail. TTC3[™] has a full range of testing capabilities including Constant Deflection Rate, Ramp

Lansmont Field-to-Lab®

FEATURES



TouchTest Compression 3 Controller:

The intuitive TTC3[™] control software integrates the machine control functions with the data capture, analysis, and reporting features. TTC3™ allows users to export test data to Windows[™] applications. Networking features allow quick and easy transmission of



Top Load Design:

Our "Top Load" machine design applies the compression force from above during compression testing, providing a more

realistic simulation of the compressive loads that packaging experiences when stacked.



Low Profile **Baseplate:**

The compression system baseplate has a low profile for added convenience and safety when loading or unloading

large packages or unitized loads during testing.

OPTIONS

during testing.



orientation, the platen is free to swivel during

testing via a "monoball" bearing. In the fixed

orientation, adjustable limit stops are used to lock

out the lower platen so it is in a fixed orientation

Fixed/Floating Platen:

> The Fixed/Floating platen option gives you increased flexibility in your testing applications.

In the floating

to Load and Release, Stacking Simulation, and Deflection profile compression tests.

Package Test Stands:

To make testing single packages on a large compression tester more convenient, we offer package tests stands.

These heavy duty steel tables can be placed on the machine baseplate to make the "base" surface a more convenient height for the user.



Low Range Load Platform:

For testing applications that utilize the lower end of the force range, we offer Low Range Load Platforms. These

precision recording structures more accurately measure compressive forces on smaller packages.



Temperature/ **Relative Humidity** Sensor:

The optional probe mounts to the back of the Squeezer near to where test specimens sit during

testing. The sensor can effectively measure in a 0 – 100°F temperature and 0 – 100% relative humidity range.





Lansmont Field-to-Lab®

APPLICATIONS

Many variables affect the compression performance of your packaging. How many boxes will be in a unit load and how will we stack them? Will our packages be shipped on pallets? What happens if boxes overhang the pallet? How does the climate influence the stacking performance? These are important questions to consider when designing your packaging. Lansmont **Compression Test Systems** allow you to evaluate how your packaging designs "stack up" to compressive loads and environmental conditions.



Testing a Unit Load Lansmont's Model 122-15 Compression Tester is specifically designed to efficiently and accurately evaluate the performance of unit loads under compressive forces.



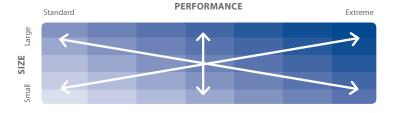
Testing Individual Packages For testing smaller items such as individual packages, an optional package test stand can be used with the Model 122-15. A Low Range Load Platform is another useful option for accurately evaluating low level force inputs.



Climatized Testing Temperature and relative humidity can greatly impact compression performance of your packaging designs. To replicate these conditions during testing, Lansmont Compression Test Systems can be installed inside a climate-controlled space.

MADE TO ORDER

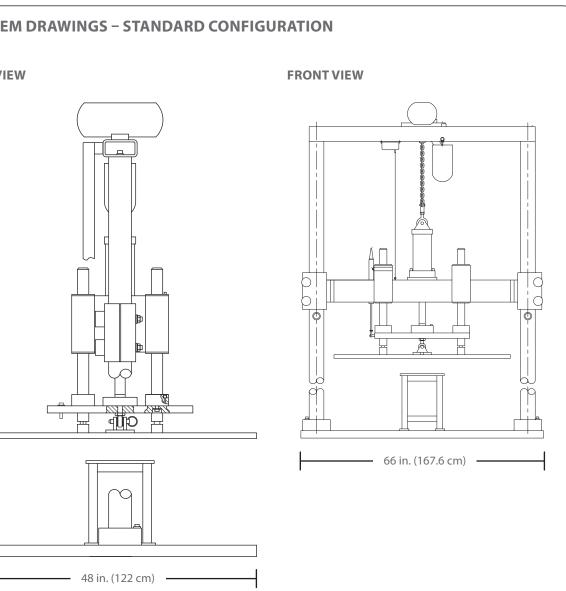
Not quite the equipment size or performance level that you need? If we do not already manufacture the test machine ideally suited for your company's testing applications, our engineering team can custom design a test system specific to your needs.







SPECIFICATION	S		SYSTEM DRAWIN
UTILITIES			
Power -			SIDE VIEW
Standard voltages:	110 VAC - 1 phase - 60 Hz. (20 amps) 220 VAC - 1 phase - 50 Hz. (10 amps)		T (
Optional Voltage:	220 VAC - 1 phase - 60 Hz. (10 amps)		
MACHINE DIMENSI	ONS (standard machine)		
Height:	125.5 in. (319 cm)		
Width:	66 in. (168 cm)		
Length:	48 in. (122 cm)		
PACKAGE TEST ST	AND DIMENSIONS		
Sizes (width x length):	24 x 24 in. (61 x 61 cm) 30 x 30 in. (76 x 76 cm) 36 x 36 in. (91 x 91 cm)		125.5 in. (319 cm)
All test stands are 30 in. (76			125
CRATE INFORMATIO	DN (standard machine)		
Height:	74 in. (188 cm)		
Width:	75 in. (190.5 cm)		
Length:	169 in. (429 cm)		
WEIGHTS			
Gross weight	8500 lbs. (3855 kg)		
Net weight	6775 lbs. (3073 kg)		4
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PERFORMANCE SPECIFICATIONS

Maximum Package Dimensions:

Length60 in. (152 cm)Width60 in. (152 cm)Height84 in. (213 cm)Contact Lansmont for

Contact Lansmont for larger configurations.

Verified Force Range: 152-30K 152-50K 3,000 - 30,000 lbs. 5,000 - 50

extended range options.

3,000 - 30,000 lbs. 5,000 - 50,000 lbs. (13.3 - 133 kN) (22.2 - 222 kN) Contact Lansmont for

Positioning Speeds:

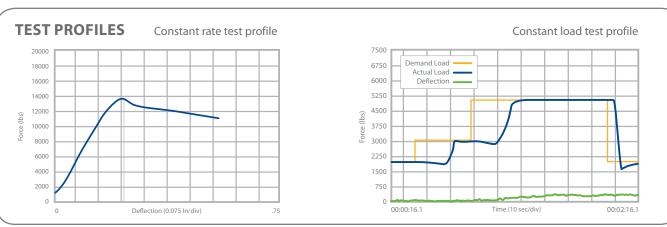
Cross-head 16 ft./min. (4.88 m/min.) Test speed 0.5 in./min. (1.27 cm/min.)

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Field-to-Lab[®]

Testing Modes:

Constant deflection rate Ramp to load and release Load profile simulation Deflection profile simulation



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FEATURES



TouchTest Compression 3 Controller:

The intuitive TTC3[™] control software integrates the machine control functions with the data capture, analysis, and reporting features. TTC3™ allows users to export test data to Windows[™] applications. Networking features allow quick and easy transmission of

realistic simulation of the compressive loads that packaging experiences when stacked.

Top Load Design:

machine design

compression force

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Our "Top Load"



Low Profile Baseplate:



The compression system baseplate has a low profile for added convenience and safety when loading or unloading

large packages or unitized loads during testing.

OPTIONS



Fixed/Floating Platen:

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to Load and Release, Stacking Simulation, and Deflection profile compression tests.

test results via e-mail. TTC3[™] has a full range of testing capabilities including Constant Deflection Rate, Ramp



machine baseplate to make the "base" surface a

more convenient height for the user.

To make testing single packages on a large compression tester more convenient, we offer

package tests stands. These heavy duty steel tables can be placed on the



Low Range Load Platform:

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precision recording structures more accurately measure compressive forces on smaller packages.



Temperature/ **Relative Humidity** Sensor:

The optional probe mounts to the back of the Squeezer near to where test specimens sit during

testing. The sensor can effectively measure in a 0 – 100°F temperature and 0 – 100% relative humidity range.







Lansmont Field-to-Lab®

APPLICATIONS

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Testing a Unit Load Lansmont's Model 152 Compression Tester is specifically designed to efficiently and accurately evaluate the performance of unit loads under compressive forces.



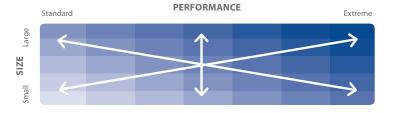
Testing Individual Packages For testing smaller items such as individual packages, an optional package test stand can be used with the Model 152. A Low Range Load Platform is another useful option for accurately evaluating low level force inputs.



Climatized Testing Temperature and relative humidity can greatly impact compression performance of your packaging designs. To replicate these conditions during testing, Lansmont Compression Test Systems can be installed inside a climate-controlled space.

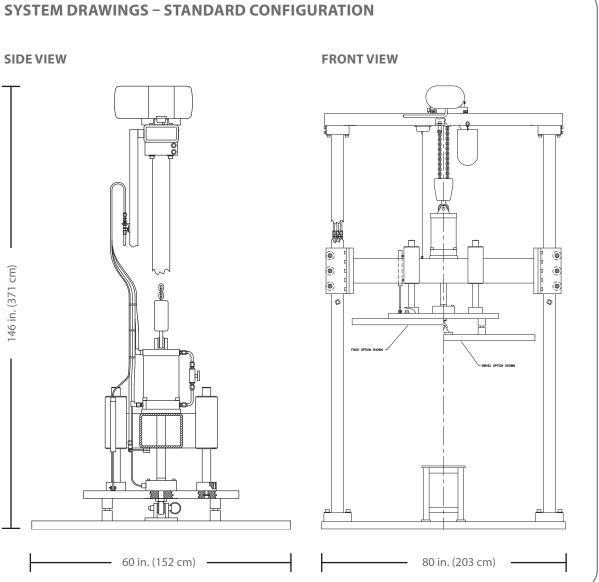
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SPECIFICATION	S	
UTILITIES Power -	152-30K	152-50K
Standard voltages:	115-220 VAC 1 phase 50-60 Hz. 15-30 amps	115-220 VAC 1 phase 50-60 Hz. 15-30 amps
MACHINE DIMENSI	ONS (standard mach	ine)
Height:	146 in. (371 cm)	146 in. (371 cm)
Width:	80 in. (203 cm)	80 in. (203 cm)
Length:	60 in. (152 cm)	60 in. (152 cm)
PACKAGE TEST STA	AND DIMENSIONS	
Sizes (width x length): All test stands are 30 in.	24 x 24 in. (61 x 61 cm) 30 x 30 in. (76 x 76 cm) 36 x 36 in. (91 x 91 cm) (76 cm) tall.	
CRATE INFORMATIO	ON (standard machin	e)
Height:	74 in. (188 cm)	-
Width:	75 in. (190.5 cm)	x 2
Length:	169 in. (429 cm)	169 in. (429 cm)
WEIGHTS		
Gross weight	9000 lbs. (4082 kg)	9500 lbs. (4309 kg)



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Upgrade Options: Compression



MAIN ASSEMBLY HYDRA

HYDRAULICS/PNEUMATICS

CONTROLS ACCESSORIES

TouchTest[™] Compression – TTC3 Control System

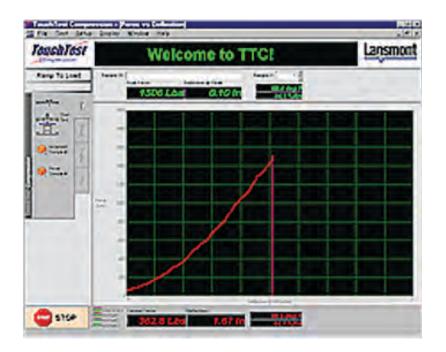
Based on the extremely popular TouchTest Compression control system, TTC3 adds many new and powerful features. Among these features are the ability to integrate compression test results with all of your favorite Windows™ applications, network features that allow quick and easy transmission of test results via e-mail, extremely simple set-up of standard compression tests, and a high level of programmability for creating custom test profiles.

TTC3 comes in a benchtop version, which includes computer, CRT monitor, interface, and all interconnecting cables. You provide the bench or cart for the computer, everything else is the same!

If you currently have an older Lansmont compression test system, the new TTC3 controller has been designed to easily retro-fit your existing machine, enabling you to have the latest state-of-the-art compression tester without the investment of an entirely new compression tester. The upgrade even includes a brand new hydraulic power supply, insuring your machine is better than new.

Features

- Full range of test capabilities, including Constant Deflection Rate Compression Testing, Ramp to Load and Release Compression Testing, Load Profile - Stacking Simulation Test, and Deflection Profile Test
- Windows[™] simplicity
- Network ready
- SystemStation and Bench-Top version
- · Easily upgradeable to existing machines



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