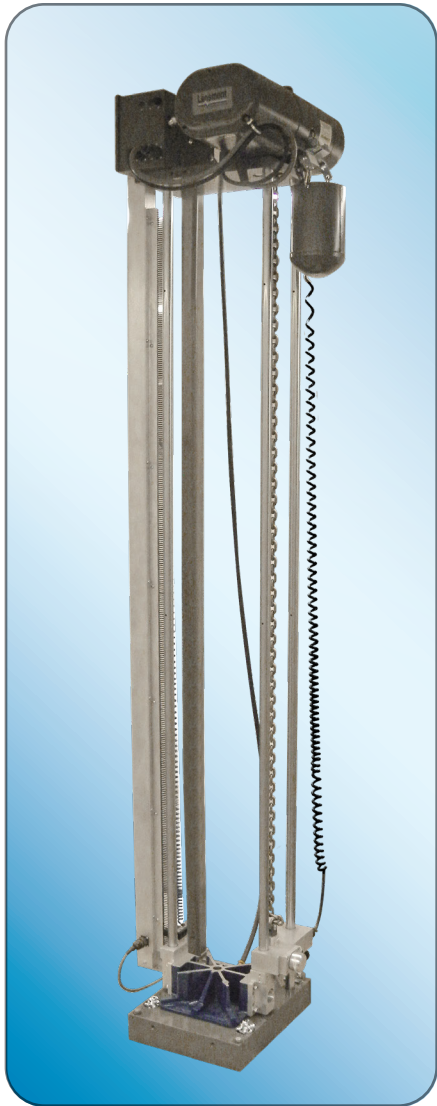




Model 23 Cushion Tester



The Model 23 Cushion Tester is a unique test system designed for evaluating the impact performance of cushioning materials. Mitigating impact energy experienced during shipping and handling is an important attribute for protective packaging. To measure the cushioning characteristics of different materials, the user can easily vary the impact platen mass and drop height to simulate different static loadings and impact velocities.

Lansmont Model 23 Cushion Tester performs testing in accordance with ASTM D1596.

PERFORMANCE SPECIFICATIONS

Static Loading Range:

Heavyweight Platen and Ballast Kit

0.2 – 5.0 psi (0.014 – 0.35 kg/cm²)

Lightweight Platen and Ballast Kit (optional)

0.03 – 0.15 psi (0.0021 – 0.0105 kg/cm²)

Impact Velocity Range [Equivalent Drop Height]

Min. Impact Velocity 28 in./sec. (71 cm/sec.)

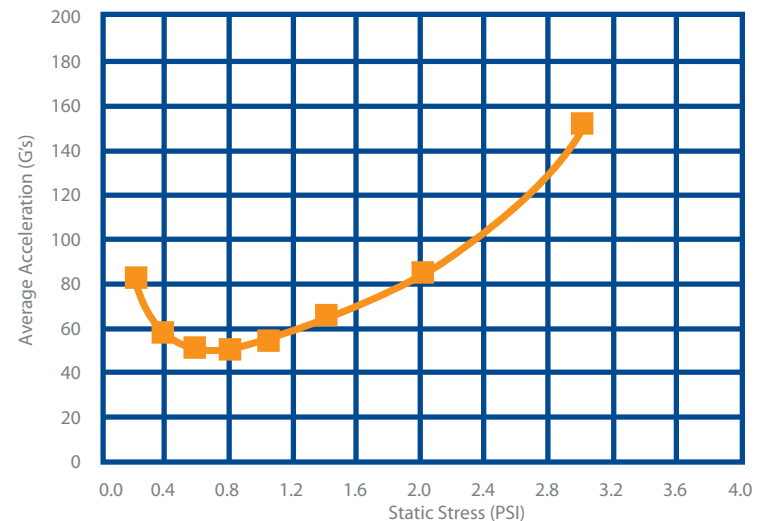
Min. Equivalent Drop Height 1 in. (2.5 cm)

Max. Impact Velocity 216 in./sec. (549 cm/sec.)

Max. Equivalent Drop Height 60 in. (152 cm)

SAMPLE SHOCK CUSHION CURVE

30 Inch Drop Height 2 Inch Thickness





Model 23 Cushion Tester



FEATURES



Handheld Pendant Control:

All operation of the machine (except setting the release member and trigger switches) is controlled from the hand-held pendant. The controls are designed for simplicity yet maximum safety in that two separate, simultaneous operations are required to release the brakes or drop table.



Electric Hoist:

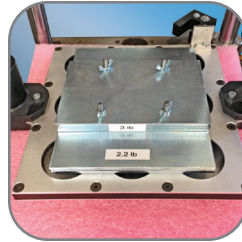
To perform repeatable impact tests it is important to maintain precise drop height accuracy. The Model 23 Cushion Tester uses an electric hoist for positioning the heavyweight platen during testing.



Heavyweight Platen:

The heavyweight platen is a high strength aluminum casting. With the optional ballast kit, the heavyweight platen facilitates static loadings from 0.2 to 5.0 psi (0.014 – 0.35 kg/cm²).

OPTIONS



Lightweight Platen:

The lightweight platen is designed for a maximum ballasted weight of 9.6 lbs. (4.4 kg), giving it a load range of 0.03 to 0.15 psi (0.0021 to 0.0105 kg/cm²).



Ballast Kits:

Precise weights can be attached to the impact platens to increase to vary the mass and static stress loading on the cushion specimen.



Impact Speed Meter:

Impact Speed Meters, compliant with ASTM standards, are available to measure impact velocity in either English or SI units.

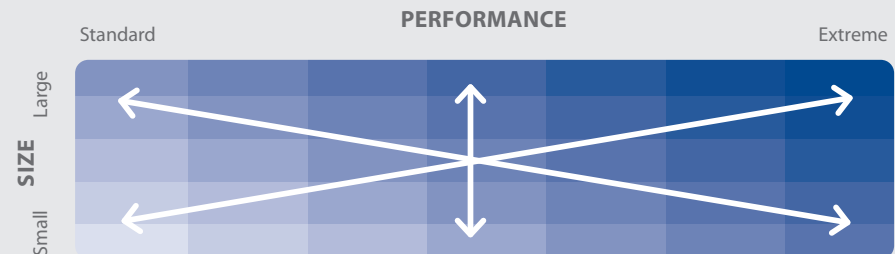


Test Partner Data Acquisition:

Test Partner is a powerful combination of software and hardware specifically tailored to capture and analyze mechanical shock, drop, and impact events.

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.





Model 23 Cushion Tester



SPECIFICATIONS

PHYSICAL

Platen Sizes

Heavyweight Platen	9.06 x 9.06 in. (23 x 23 cm)
Lightweight Platen (optional)	8.5 x 8.5 in. (21.6 x 21.6 cm)

Platen Weights

Heavyweight Platen	12.8 lbs. (5.8 kg)
Lightweight Platen (optional)	1.92 lbs. (0.9 kg)

Machine Height

96 in. (244 cm)

Envelope Dimensions

18 x 18 in. (46 x 46 cm)

POWER REQUIREMENTS

Voltage 100 – 230 VAC

Frequency 50, 60 Hz.

Phase Single Phase

PNEUMATIC REQUIREMENTS

Plant Air 80 – 120 psi (5.6 - 8.4 kg/cm²)

SYSTEM DRAWING SIDE VIEW

