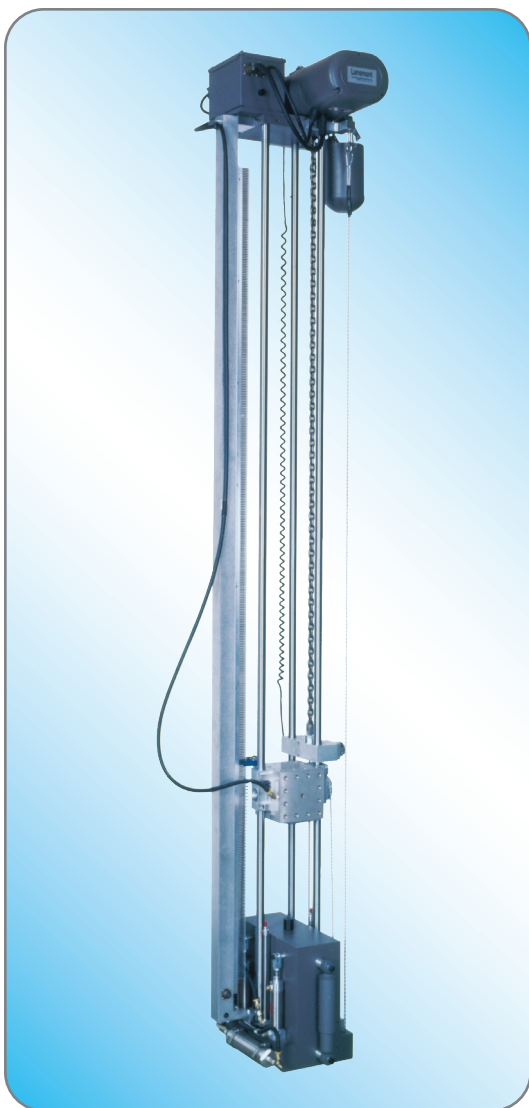




15D Shock Tester

Lansmont
Field-to-Lab®



The Model 15D Shock Test System is designed for analyzing the shock fragility of small electronic or fiber-optic devices. The standard table, constructed from magnesium alloy, generates nearly ideal half-sine shock pulses.

The Model 15D is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Front Face	6.0 x 6.0 in. (15.2 x 15.2 cm)
Top Face	6.0 x 6.0 in. (15.2 x 15.2 cm)

TEST CAPABILITIES

Max. Acceleration	2000g
Min. Pulse Duration	0.25 msec (half sine)
Max. Velocity Change	24 – 32 ft./sec (7.3 – 9.7 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal* Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	40 lbs. (18 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	96 – 120 in. (244 – 305 cm)
Side to Side	21 in. (53 cm)
Front to Back	21 in. (53 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 4 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 2 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 1 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 1 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen*	1000 -2000 psi (69 – 138 bar)
Plant Air	90 psi (6.2 bar)

**for optional DB Programmer*



23 Shock Tester



The Model 23 Shock Test System is an extremely versatile testing machine. It can perform a wide variety of programmable shock tests. When outfitted with optional platens or impact forms, the Model 23 can also perform materials impact evaluation (cushion testing) or artificial turf testing.

The Model 23 is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.



PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	9.06 in. (23 cm)
Front to Back	9.06 in. (23 cm)

TEST CAPABILITIES

Max. Acceleration	5000g
Min. Pulse Duration	0.25 msec (half sine)
Max. Velocity Change	24 – 32 ft./sec (7.3 – 9.7 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal* Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	80 lbs. (36 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	96 – 120 in. (244 – 305 cm)
Side to Side	21 in. (53 cm)
Front to Back	24 in. (61 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 4 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 2 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 1 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 1 amp min.

PNEUMATIC REQUIREMENTS

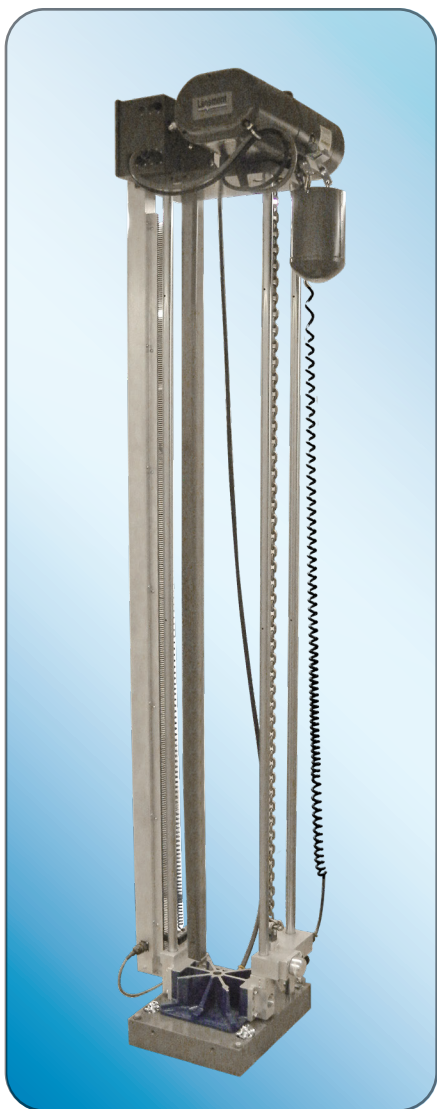
Nitrogen*	1000 -2000 psi (69 – 138 bar)
Plant Air	90 psi (6.2 bar)

**for optional DB Programmer*



Model 23 Cushion Tester

Lansmont
Field-to-Lab®



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.)

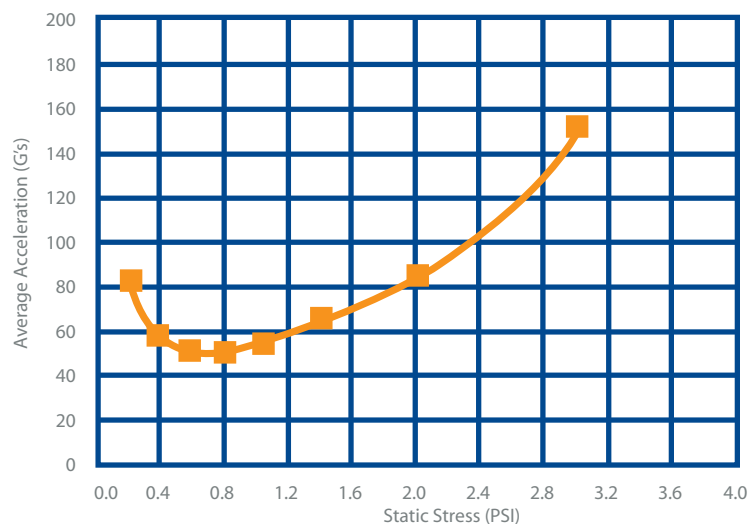
Min. Equivalent Drop Height 1 in. (2.5 cm)

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:

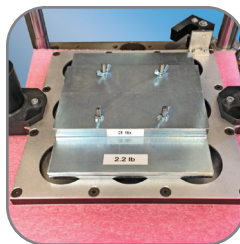
To perform repeatable impact tests it is important to maintain precise drop height accuracy. The Model 23 Cushion Tester uses an electric hoist for positioning the heavyweight platen during testing.



Heavyweight Platen:

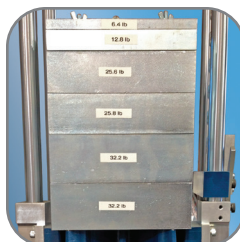
The heavyweight platen is a high strength aluminum casting. With the optional ballast kit, the heavyweight platen facilitates static loadings from 0.2 to 5.0 psi (0.014 – 0.35 kg/cm²).

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.

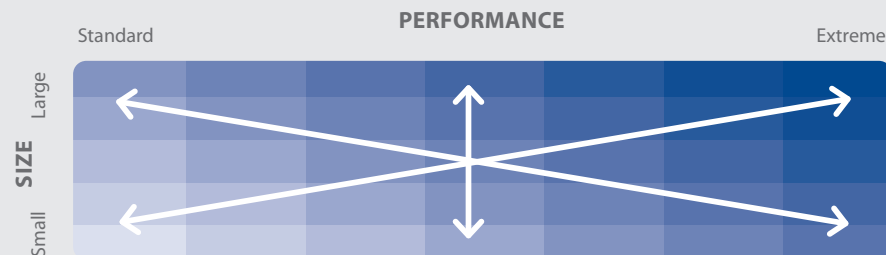


Test Partner Data Acquisition:

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

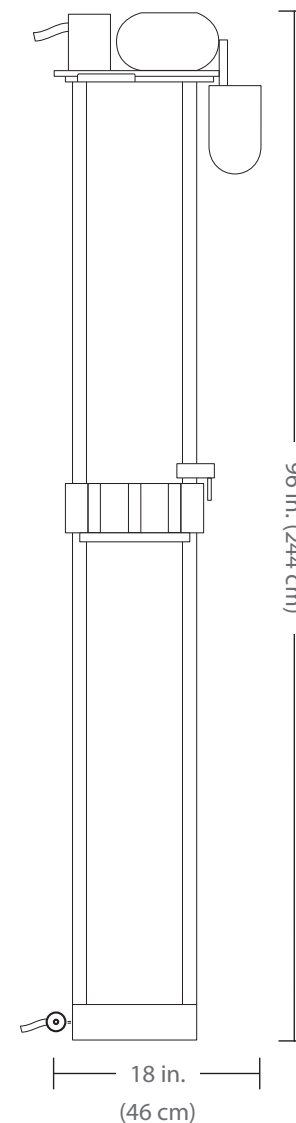
Frequency 50, 60 Hz.

Phase Single Phase

PNEUMATIC REQUIREMENTS

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

SYSTEM DRAWING SIDE VIEW

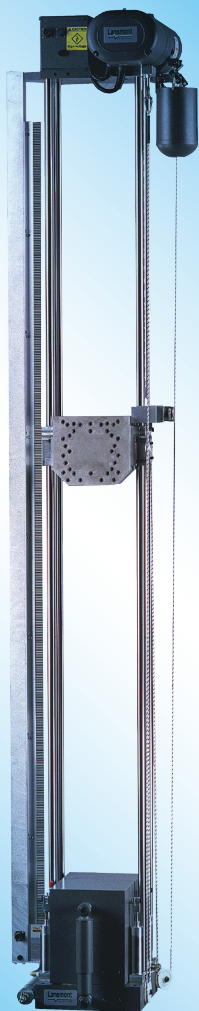




23D Shock Tester



The Model 23D Shock Test System is a high-performance version of the Model 23 Shock Test System. The multi-sided magnesium shock carriage generates nearly ideal half-sine shock pulses and allows for mounting test items in multiple orientations simultaneously. The Model 23D is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.



PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Front Face	9.06 x 9.06 in. (23 x 23 cm)
Top Face	6.0 x 9.06 in. (15.2 x 23 cm)

TEST CAPABILITIES

Max. Acceleration	2000g
Min. Pulse Duration	0.25 msec (half sine)
Max. Velocity Change	24 – 32 ft./sec (7.3 – 9.7 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal* Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	40 lbs. (18 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	96 – 120 in. (244 – 305 cm)
Side to Side	21 in. (53 cm)
Front to Back	24 in. (61 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 4 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 2 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 1 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 1 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen*	1000 -2000 psi (69 – 138 bar)
Plant Air	90 psi (6.2 bar)

**for optional DB Programmer*



65/81 Shock Tester



The Model 65/81 Shock Test System provides the pulse quality and system reliability needed for testing small to mid-size products. The Model 65/81 meets or exceeds many industrial, military, and corporate shock testing standards and specifications. The Model 65/81 is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	25.6 in. (65 cm)
Front to Back	31.9 in. (81 cm)

TEST CAPABILITIES

Max. Acceleration	600g
Min. Pulse Duration	2 msec (half sine)
Max. Velocity Change	24 ft./sec (7.3 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	500 lbs. (227 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	119 – 149 in. (303 – 379 cm)
Side to Side	59 in. (150 cm)
Front to Back	32 in. (81 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 5 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 3 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 3 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 3 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen	2200 psi (152 bar)
Plant Air*	90 psi (6.2 bar) <i>*for Low Impulse Kit</i>



65/81D Shock Tester

Lansmont
Field-to-Lab®



The Model 65/81D Shock Test System is an enhanced version of the Model 65/81 Shock Test System. The Model 65/81D is the ideal solution for testing small to mid-size products where pulse quality and system reliability are of critical importance. The Model 65/81D is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	25.6 in. (65 cm)
Front to Back	31.9 in. (81 cm)

TEST CAPABILITIES

Max. Acceleration	600g
Min. Pulse Duration	2 msec (half sine)
Max. Velocity Change	26.6 ft./sec (8.1 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	500 lbs. (227 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	148 in. (375 cm)
Side to Side	59 in. (150 cm)
Front to Back	32 in. (81 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 5 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 3 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 3 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 3 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen	2200 psi (152 bar)
Plant Air	90 psi (6.2 bar)



95/115 Shock Tester

Lansmont
Field-to-Lab®

The Model 95/115 Shock Test System offers a large payload capacity and table surface area which makes it extremely versatile for larger products. The Model 95/115 meets or exceeds many industrial, military, and corporate shock-testing standards and specifications.

The Model 95/115 is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	37.4 in. (95 cm)
Front to Back	45.3 in. (115 cm)

TEST CAPABILITIES

Max. Acceleration	600g
Min. Pulse Duration	2 msec (half sine)
Max. Velocity Change	24 ft./sec (7.3 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal Terminal Peak Sawtooth*

MAXIMUM PAYLOAD

Standard	1,000 lbs. (454 kg)
Heavyweight option	2,500 lbs. (1135 kg)

MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	121 in. (307.5 cm)
Side to Side	78 in. (198 cm)
Front to Back	57.5 in. (146 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 5 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 3 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 3 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 3 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen	2,200 psi (152 bar)
Plant Air*	90 psi (6.2 bar) <i>*for Low Impulse Kit</i>





95/115D Shock Tester

Lansmont
Field-to-Lab®

The Model 95/115D Shock Test System is an enhanced version of the Model 95/115 Shock Test System. The Model 95/115D is the ideal solution for testing larger products where pulse quality and system reliability are of critical importance. The Model 95/115D is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	37.4 in. (95 cm)
Front to Back	45.3 in. (115 cm)

TEST CAPABILITIES

Max. Acceleration	600g
Min. Pulse Duration	2 msec (half sine)
Max. Velocity Change	26.6 ft./sec (8.1 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	1000 lbs. (454 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	121 – 151 in. (307 – 383.5 cm)
Side to Side	67 in. (170 cm)
Front to Back	65 in. (165 cm)

POWER REQUIREMENTS

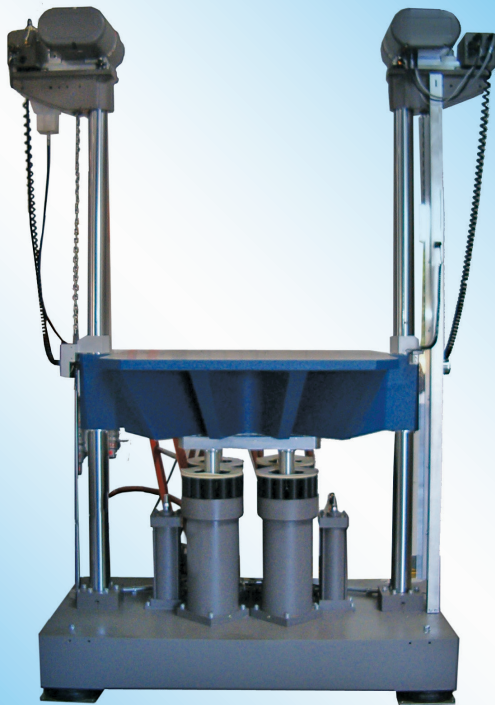
Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 5 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 3 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 3 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 3 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen	2200 psi (152 bar)
Plant Air	90 psi (6.2 bar)



122 Shock Tester



The Model 122 Shock Test System payload capacity and large table size make it a versatile platform for testing larger products or for testing multiple items simultaneously. The Model 122 is available in standard and heavy-duty configurations to tailor the system to specific applications.

The Model 122 is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	48 in. (122 cm)
Front to Back	48 in. (122 cm)

TEST CAPABILITIES

Max. Acceleration	600g
Min. Pulse Duration	2 msec (half sine)
Max. Velocity Change	20 ft./sec (6.1 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal Terminal Peak Sawtooth*

MAXIMUM PAYLOAD

Standard	750 lbs. (340 kg)
Heavyweight option	2500 lbs. (1135 kg)

MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	
Standard	120 in. (305 cm)
Heavyweight	129 in. (328 cm)
Side to Side	84 in. (213 cm)
Front to Back	51 in. (130 cm)

POWER REQUIREMENTS

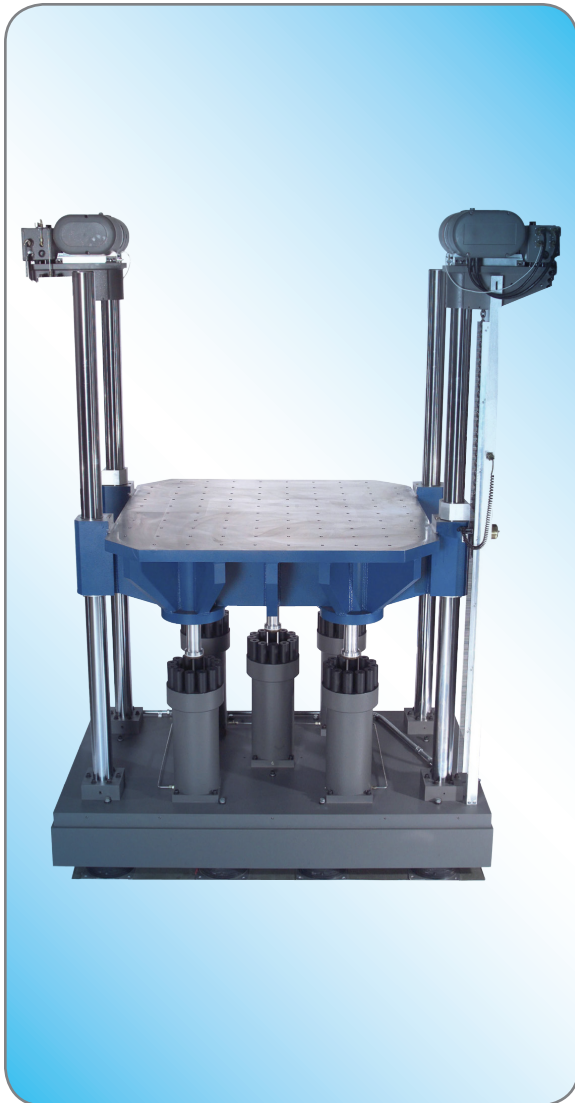
Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 8 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 4 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 3 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 3 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen	2200 psi (152 bar)
Plant Air*	90 psi (6.2 bar) <i>*for Low Impulse Kit</i>



152 Shock Tester



The Model 152 Shock Test System payload capacity and large table size make it a versatile platform for testing larger products or for testing multiple items simultaneously. The cast aluminum table produces extremely repeatable shock pulses.

The Model 152 is outfitted standard with a TouchTest™ Shock II Table Top Control Console which will communicate seamlessly with Test Partner Data Acquisition Systems.

PERFORMANCE SPECIFICATIONS

TABLE DIMENSIONS

Side to Side	60 in. (152 cm)
Front to Back	60 in. (152 cm)

TEST CAPABILITIES

Max. Acceleration	400g
Min. Pulse Duration	2.5 msec (half sine)
Max. Velocity Change	20 ft./sec (6.1 m/sec)
Pulse Waveforms	Half Sine
<i>*with Optional Programmers</i>	Trapezoidal Terminal Peak Sawtooth*

MAXIMUM PAYLOAD	2000 lbs. (907 kg)
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MACHINE SPECIFICATIONS

MACHINE ENVELOPE DIMENSIONS

Height	125 in. (317.5 cm)
Side to Side	100 in. (255 cm)
Front to Back	61 in. (155 cm)

POWER REQUIREMENTS

Machine	200 – 240 VAC/3Φ/50 – 60 Hz: 8 amp min. 380 – 480 VAC/3Φ/50 – 60 Hz: 4 amp min.
Controller	100 – 120 VAC/1Φ/50 – 60 Hz: 3 amp min. 200 – 240 VAC/1Φ/50 – 60 Hz: 3 amp min.

PNEUMATIC REQUIREMENTS

Nitrogen	2200 psi (152 bar)
Plant Air*	90 psi (6.2 bar)

**for Low Impulse Kit*