

IT 152-4K Incline Impact Test System

Inclined-impact is one of the traditional packaging performance tests. The test machine consists of a wheeled carriage, guided by steel rails, upon which the test item is placed. The rails are inclined 10°, and there is an impact “backstop” at the low end with its surface perpendicular to the carriage’s direction of travel. The carriage is positioned a specific distance up the rails, depending on the desired impact velocity, and released. The carriage rolls freely down the rails and the specimen impacts the backstop.

Lansmont’s Model 152-4K Inclined Impact test system was designed to meet all of the traditional industry specifications, but take advantage of some new, innovative design ideas. Specifically, Lansmont utilizes a unique, articulating carriage system. This system allows the carriage to be loaded with a level top surface for safety and convenience. After the test specimen is loaded, the top of the carriage is lowered into its testing configuration and drop sequences happen in the conventional method. Lansmont’s pneumatic articulation system is fast, safe, and reliable.

All machine functions are controlled through a hand-held control pendant, allowing machine operator the ability to position the carriage from different points around the machine.



**Platform
Articulates for
Specimen Loading
and Unloading**

IT 152-4K Options:

- Unique articulating carriage eliminates the need for loading on an angle or tilting the entire ramp assembly.
- Compliant with ASTM, ISTA, ISO, government, military and corporate specifications.
- Infinite impact resolution.
- Interlocks for operator, specimen, and machine safety.
- Positive lockout safety pin prevents unwanted carriage movement.
- Enclosed motor and drive system.
- Hand-held control station.
- Velocity from 0-7 ft/sec (0-2.1 m/sec)
- Worldwide Customer Service Department



- **Impact Speed Meter.** This option allows carriage impact velocities to be measured. Simple LCD display shows Impact Velocity in English or Metric units and is compliant with ASTM and ISTA standards.

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IT 152-4K Incline Impact Test System

TECHNICAL SPECIFICATIONS

| PHYSICAL | |
|------------------------------------|--|
| Table Size | 60 in. x 60 in. (152 cm x 152 cm) |
| Backstop Dimensions | 84 in. x 76 in. Tall (213 cm x 193 cm Tall) |
| Velocity | 7 Ft/Sec. (2.1 M/Sec) |
| Payload Capacity | 4,000 lbs. (1,814 kg) |
| UTILITIES | |
| Power Requirements: | |
| Voltage | 208 – 230 VAC |
| Frequency | 50 Hz – 60 Hz, Single phase |
| Current | 25A |
| Plant Air | 80 psi (5.6 kg/cm ²) |
| MACHINE ENVELOPE | |
| Machine Envelope (Standard Length) | 20 Ft. Long x 8 Ft. Wide x 8 Ft. Tall (6.1 M Long x 2.4 M Wide x 2.4 M Tall) |
| SHIPPING WEIGHT | |
| Shipping Weight | 12,500 Lbs. (5,670 kg) |

