

# TRANSPORTATION SIMULATION SYSTEM

## Simulating Transportation for Optimizing Performance

Damaged loads cost money, waste time, and can ruin business relationships. Ensure your loads are wrapped properly to arrive safe with Highlight's Transportation Simulation System (TSS).

The TSS provides accurate replication of load transit behavior using sustained tilt testing, and optional horizontal impact testing. The effects of these tests are monitored and recorded using an included laser profile scanner, and optional load accelerometers.

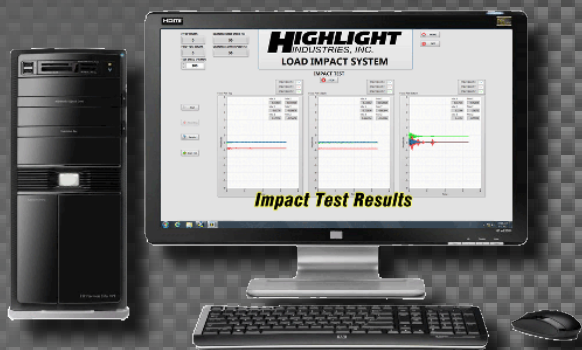
Highlight Industries has specialized in evaluating the properties of stretch film and designing test systems for over 25 years. Test the security of your loads to ensure that they arrive at their destination safely.



## HIGHLIGHTS

- » Follows US DOT regulations for testing commercial loads, as well as ISTA standards, Canadian NSC STD and the European Guidelines for safe transit
- » The load profile is scanned before and after tilt and testing to record and quantify the effect of the forces experienced by the load
- » Tests provide results that lead to improved product containment, product condition, and customer satisfaction

## Dedicated Computer



## Touch Screen Controller



## SYSTEM CONTROLS

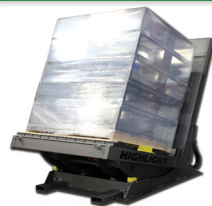
- Tests are operated and recorded with the dedicated computer system
- Highlight test software graphs forces from testing, saves results, and plots comparison graphs
- Touch screen controller monitors system and provides manual operations

## SYSTEM SPECIFICATIONS

Maximum Load Weight	4,000 Pounds	Operating Controls	Master Touch Screen Control, and included Computer with Testing Software
Minimum Load Size	24"x24"x18"	Construction	Heavy Duty All Steel Construction
Maximum Load Size	52"x52"x72"	Approximate Machine Dimensions and Weight	84"H x 110"L x 65"W 4,720 Pounds NOTE: System will be tilted at 40 degree angle for best shipping size
Tilt Capacity	Up to 40 Degrees	Electrical Requirements	120V, 20 Amp
Testing Standards	ASTM D5414, ISTA 3b-3e, ISO 10531	Customization	Custom options and dimensions available to meet application requirements

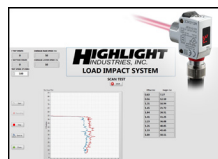
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## KEY FEATURES



### Tilt Test

Loads can be tilted up to 38 degrees to simulate and sustain up to 0.8 G's of force. This testing simulates turning and acceleration events and meets the US DOT regulations for safe transit.



### Load Profile Scanner

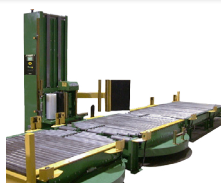
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### Dedicated Computer

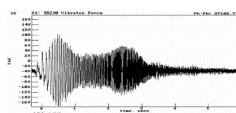
A computer is included to record the test results and plot comparison graphs. Results and graphs can be saved and used to improve wrapping to protect your product.

## OPTIONS



### Integrated Conveyors

System can be paired with a conveyORIZED stretch wrapper to reduce load handling and decrease testing time. With speeds up to 100 ft/min, conveyORIZED impacts can be precisely controlled and are truly horizontal.



### Vibration Testing

Integrated vibration unit can be programmed to run the range of frequencies experienced during transportation by truck.



### Accelerometers

Accelerometers can be placed into the unit load to collect data throughout testing, and record the resulting forces.



### Impact Testing

Loads can be impacted with up to 6 G's of force to simulate railcar coupling, pallet justification, and other events. These forces can be dialed in and controlled using conveyor speed and adjustable impact stop.

**HIGHLIGHT**  
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