

NOVA LOCK & LOAD™

EQUIPMENT SPECIFICATIONS

LOCK & LOAD



The NOVA Lock & Load Truck Restraint secures the trailer's rear impact guard (RIG) to reduce the risk of trailer separation accidents which lead to forklift driver injuries as well as damage to product and loading dock equipment. The Lock & Load offers unique features to improve on the proven performance of hook-style restraint designs:

- The gear motor, specifically engineered for this application, includes a one way braking system which keeps the hook continuously engaged for added safety.
- Control box features discrete components for ease of service.
- Control box includes keyswitch for override as standard.
- LED lights are standard for energy efficiency and long life.

VERSATILE:

Low profile 9" carriage works with all standard trailers (RIG \geq 9" and \leq 27").

DURABLE:

Mounts to dock above ground level to stay clear of precipitation and debris. Protected from the elements with watertight connectors and zinc plating which provides exceptional corrosion resistance. Backed by a one year parts and labor warranty.

RELIABLE:

Designed to withstand more than 32,000 lbs. of pulling force.
(Meets ANSI spec MH30.3-2005.)

EASY TO USE:

Backing trailer positions restraint automatically. Communication system provides interior and exterior lights and an audible alarm to alert dock attendant of restraint status.



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ARCHITECTURAL SPECIFICATIONS

GENERAL:

The NOVA Lock & Load™ is designed to secure a trailer to a loading dock by engaging the trailer's rear impact guard (RIG) with a large, rotating hook operated by a control panel mounted inside the building. Engagement range extends from 9" to 27" above the ground. A spring loaded, structural steel housing automatically positions the unit when contacted by a backing truck.

STRUCTURAL:

The enclosed welded structural steel housing is constructed of 5/16" (8mm) high strength abrasion resistant steel. It is designed to withstand the impact of trailers backing into position and to protect all components from weather, dirt and debris. Zinc plated carriage provides corrosion resistance; the rotating steel hook is yellow zinc plated for high visibility.

OPERATION:

As the trailer backs into position, the RIG contacts the spring loaded structural steel housing which rides down in its track, allowing the RIG to move over the top of the housing. The dock attendant pushes the RESTRAIN button which activates the hook to secure the trailer to the dock with a holding force in excess of 32,000 lbs. The Lock & Load restraint maintains contact with the RIG and adjusts automatically with trailer float motion to ensure proper engagement at all times. After servicing is complete, the dock attendant pushes the RELEASE button. In the event a trailer is missing or has a damaged RIG, the Lock & Load will communicate a fault condition. An audible alarm and flashing red light alerts the operator that the trailer has not been properly secured. The operator may then override the fault condition and secure the trailer by other means. The communication system automatically adjusts to reflect the current operational mode.

ELECTRICAL/CONTROLS:

All operator controls are mounted in a control panel which is fully operational at all times. Hook mechanism, specially engineered electric motor and limit switches are totally enclosed in an abrasion resistant structural steel housing. Electrical components and wiring are UL listed or recognized. Lock & Load requires a power source of 110/115 volt single phase with a 15 Amp service circuit. (NOTE: Unless specified on quotation, all electrical, including hookups, is the responsibility of others.)

COMMUNICATION SYSTEM:

Outside: Constant flashing red or green LED lights with signs instruct the truck driver when it is safe to back into or pull away from the loading dock.

Inside: Constant flashing red or green LED lights with signs help the dock attendant know when it is safe to perform loading/unloading operations.

Audible Alarm: In addition to the flashing red light, inside alarm warns the dock attendant when a RIG has not been properly engaged.

Audible Alarm Override: A key switch allows personnel to override the audible alarm. When the audible alarm is in override, the inside red and green lights continue to flash simultaneously.

LED lights: Standard LED lights provide long life.

OPTIONS:

- _____ Cantilever Mounting Bracket
- _____ Open Dock Stanchion for Control Box
- _____ Driveway Plate for Ground Mounting
- _____ Green Light Interlock

WARRANTY:

1 Year Parts and Labor.

