

THINMAN™ Truck Leveler/Vehicle Restraint

Increased productivity

Eliminates pit wall and bumper obstructions to efficiently access below-dock loads. By providing full, unobstructed access to the trailer, loading and unloading operations continue safely and smoothly.

Low-profile design

1-1/8" collapsed height eliminates bumper override. No need for a below-grade pit.

Easy installation

Surface mounting does not require a costly trench or additional drainage.

Safe, reliable restraint

Integrated GLOBAL WHEEL-LOK™ restraint positions automatically as trailer backs in to help prevent separation from the dock during loading and unloading.

Safe sequence of operation

Truck leveler and vehicle restraint are interlocked to ensure proper and safe operation.

Consistent on-center trailer positioning

Two wheel guides help ensure accurate alignment to protect building and enhance dock seal effectiveness.



Increase productivity with full, unobstructed access to virtually any trailer, any load.

When you need full access to the trailer for loading and unloading operations, here's the easy way to service and secure a variety of trailers at existing loading docks. The innovative surface-mounted THINMAN™ truck leveler allows you to lift and position the trailer bed, clear from bumper or pit wall obstructions. By incorporating the GLOBAL WHEEL-LOK™ vehicle restraint, the THINMAN system offers the ultimate in versatility to safely serve a wide variety of trailers, including lift gates and drop frames. Ask your Rite-Hite Representative for more information about the THINMAN truck leveler and the GLOBAL WHEEL-LOK vehicle restraint.



With this low-profile design, there's no need to build a costly below-grade pit.

RITE-HITE®

SPECIFICATIONS

THINMAN™ SYSTEM

NOMINAL DIMENSIONS:

The THINMAN™ truck leveler platform is 20' long x 11' 10" wide.

CAPACITY:

THINMAN truck leveler standard structural lifting capacity: 60,000 lbs.

GENERAL DESCRIPTION:

The THINMAN truck leveler and GLOBAL WHEEL-LOK™ (GWL-2000) restraint are designed to secure virtually any trailer type, with or without an ICC bar, to the dock, by engaging the driver's side rearmost tire with an integral steel barrier. Ability to resist pullout forces in excess of 32,000 lbs. allows restraint of virtually any trailer with tires from 30" to 40" in diameter. Consult your RITE-HITE® Representative for details.

12-MONTH MONEY BACK SATISFACTION GUARANTEE:

In addition to all other warranties, RITE-HITE® will provide a written guarantee that the equipment will perform in a manner satisfactory to the Owner for a period of 12 months after date of installation. If the Owner is not satisfied with the performance of the equipment, the Owner may notify RITE-HITE® and RITE-HITE® shall remove the equipment and refund the equipment purchase price to the Owner. All warranties are subject to standard limitations on liability. Consult your RITE-HITE® Representative for details. In addition, the THINMAN truck leveler includes a standard five-year structural and hydraulic warranty, all other components are one-year parts, one-year labor.

OPERATION:

As the truck approaches the loading dock, it positions between the dual wheel guides. It then contacts the restraint's trigger device which begins moving toward the dock using the energy of the trailer. This enables the locking arm to size the tire and rise to its full height on the rearmost tire. When the trailer is in position, the attendant pushes the "Lock" button on the control panel inside the building, which activates the locking assembly. Inside and outside red and green communication lights signal that the trailer is engaged.

The restraint is interlocked with the truck leveler so that after engagement, the truck leveler controls are enabled and the dock attendant pushes the "raise" button allowing the trailer bed to be positioned to the desired height. When loading and unloading is complete, the dock attendant pushes the "lower" button to store the truck leveler. After the truck leveler is stored, the restraint controls are enabled and the dock attendant pushes the "unlock" button to release the restraint. After the locking assembly is disengaged, communication lights change to indicate truck is no longer engaged and is free to move forward. Unit allows for manual release using standard hand tools in the event of a power failure.

Operating range is 26" above grade at the rear of the platform, provided by dual 24" stroke cylinders.

CONSTRUCTION:

The unit is constructed entirely from carbon steel and consists of 12" structural side beams with a 5" tall (4" off the traffic surface) fabricated steel structure in the center, and rear header sections. The entire unit has all of its structural components positioned above grade which eliminates the need for a pit.

SAFETY FEATURES:

The THINMAN truck leveler and the GWL-2000 vehicle restraint are interlocked. Communication System: Outside system includes full-time flashing red or green lights with signs to warn the truck driver when it is safe to back in or pull out. Inside, full-time flashing red or green lights with signs tell the dock attendant when it is safe to perform loading/unloading operations. The inside lights are in the opposing mode to the outside lights. System also includes an inside audible alarm which sounds if the unit is unable to achieve its full restraining height. An override allows for horn silencing. Automatic Tire Sizing: The system automatically sizes the tire to help provide maximum restraint.

A non-adjustable, hydraulic velocity fuse limits platform free-fall in case of hose failure.

STANDARD FEATURES:

1-1/8" collapsed height of the traffic surface.

12" debris guards close off sides when truck leveler is in use.

The 12" structural guard is 3/16" steel and is bolted to the approach next to platform.

Integral lifting lugs included for easy placement.

Entire platform has gray enamel paint with the wheel guides painted safety yellow enamel paint.

All hinge pins and cylinder pins are stainless steel.

HYDRAULICS:

The platform is raised by dual 4" ID hydraulic cylinders with 2 1/2" OD solid rods with spherical bushings mounted to the cylinder rods. The spherical bushings absorb any side movement of the platform increasing cylinder seal life. The hydraulic pump, manifold, and oil reservoir are contained in an integral assembly. Hoses are routed in the leveler platform, away from debris. Unit uses Mil H-5606 hydraulic fluid.

ELECTRICAL:

The totally enclosed, fan-cooled motor is rated at 208/240 or 440/480V, 60 Hz, 3 phase, 7.5 Hp. The GWL-2000 vehicle restraint operates off a separate 120V, 60 Hz, 1 phase circuit or can be connected together via an optional DOK-COMMANDER™ control box. All operator controls are mounted in a gasketed, NEMA 12 enclosure. All electrical components, connections and wiring are UL listed or recognized.

Please Note: Unless specifically noted on quotation, all electrical including hook-up is the responsibility of others.

LOADING DOCK BUMPERS:

A minimum of two 4" thick x 10" wide x 36" high steel-faced bumpers are recommended to accommodate the vertical movement associated with the truck leveler. Loading dock bumpers are the responsibility of others.

DOCK SHELTER:

UNI-DOX™ inflatable shelter, interlocked to the THINMAN truck leveler/GWL vehicle restraint system will provide the optimum flexibility. The ELIMINATOR™ shelter with inflatable head pad is also available.

Consult your RITE-HITE Representative for further information.

Ask your Rite-Hite Representative for more details on a Planned Maintenance Program.

RITE-HITE® Dock Levelers, DUAL-DOK® Lift/Leveler, THINMAN™ Truck Leveler/Vehicle Restraint, DOK-LOK® and WHEEL-LOK™ vehicle restraints and SAFE-T-STRUT™ maintenance support system are covered by one or more of the following U.S. Patents: 4,110,860; 4,257,137; 4,286,410; 4,364,137; 4,373,847; 4,379,354; 4,443,150; 4,472,099; 4,531,248; 4,560,315; 4,570,277; 4,605,353; 4,634,334; 4,692,755; 4,744,121; 4,819,770; 4,843,373; 4,865,507; 4,920,598; 4,995,130; 5,040,258; 5,111,546; 5,212,846; 5,271,183; 5,297,921; 5,299,386; 5,311,628; 5,323,503; 5,375,965; 5,440,772; 5,442,825; 5,453,735; 5,531,557; 5,546,623; 5,664,930; 5,702,223; 5,762,459; 5,882,167; 5,964,572. Other U.S. and foreign patents pending.

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