



## 1. Product Name

- NOVA Hydraulic Edge-of-Dock Leveler

## 2. Manufacturer

NOVA Technology International, LLC  
N90 W14507 Commerce Drive  
Menomonee Falls, WI 53051

Phone: (262) 502-1591

(800) 236-7325

Fax: (262) 502-1511

Email: [sales@novalocks.com](mailto:sales@novalocks.com)

Web: [www.novalocks.com](http://www.novalocks.com)

## 3. Product Description

### General Description

NOVA's Hydraulic Edge-of-Dock Leveler mounts to the exterior dock face providing a simple and economical alternative to pit-style levelers.

### Operation

A single push-button is pressed and held until the leveler is fully extended. Releasing the button lowers leveler to the trailer bed. After loading/unloading, the push-button is pressed and held until the lip clears the trailer bed, once released, the leveler returns to the stored position. If the trailer departs before the leveler is stored, the leveler automatically returns to the stored position.

### Structural

Platform and lip are constructed of four-way high tensile 55,000 psi minimum yield A572 safety tread plate. The tread plate on the 20,000 and 25,000 pounds Comparative Industry Rating (CIR) capacity units is  $\frac{3}{8}$  inch thick, the 30,000 pounds CIR unit is  $\frac{7}{16}$  inch thick and the 35,000 pounds CIR unit is  $\frac{1}{2}$  inch thick. The standard lip length is 15 inches on all hydraulic edge-of-dock levelers. Hinge tubes are  $1\frac{1}{4}$  inches OD for 20,000, 25,000 and 30,000 pound CIR and  $1\frac{1}{2}$  inches OD for 35,000 pounds CIR units. Lip hinge pins are  $\frac{1}{16}$  inch solid shaft cold finish M1044 steel for 20,000, 25,000 and 30,000 pound units and 1 inch for 35,000 pound CIR units. Each edge-of-dock leveler comes standard with  $\frac{1}{2}$  inch full width load distribution bar, meeting the hinge and lip sections. Deck is

supported in the stored position by a minimum of two steel gussets attached to the base plate.

### Hydraulics

The platform is raised by a main hydraulic cylinder; all hydraulic hoses are safely routed under the platform. Lip operation is controlled by a second lip cylinder. The motor pump is mounted under the leveler on brackets for easy access and includes a translucent reservoir for monitoring fluid level.

### Electrical

The hydraulic power unit motor is a 1.25 HP TENV at 115V or 230V single-phase or 208V, 230V or 460V three-phase. All electrical components, connections and wiring are UL listed or recognized.

### Bumper Block Assemblies

Leveler is shipped with two bumper block assemblies to help protect the deck plate and building from the approaching truck. Bumper block assemblies are extra-heavy duty 4-inch 1014 constructed of formed steel and incorporate a full-height internal gusset for extra support, and total bumper projection of 18 inches. All bumper blocks feature 4-inch thick Tuf-Cord rubber bumper.

### Standard Features

- Single push-button control panel
- Cold-rolled steel hinge pins for added strength and long life
- Grease fittings
- High-strength steel safety tread plate, minimum 55,000 PSI yield strength
- Milled lip edge for smooth tire rollover
- Fully hydraulic lip and deck cylinders
- Heavy-duty bumper block assemblies with Tuf-Cord 4-inch 1014 rubber molded bumpers
- Bumper projection—18 inches
- 115/230 VAC single-phase powerpack
- Two steel gussets for added strength and extended life

## Optional Features

- Low-profile design (flat center plate)
- 17-inch lip (for refrigerated trailers with rear step)
- Tapered lip (tapered at sides)
- Recessed installation packages for mini-pits
- Torsion spring
- Dock-edge anchoring channel 10 inches length (highly recommended for new construction)
- Three-phase powerpack
- 3-inch run off guards

## Benefits

- High-strength steel safety tread plate, 55,000 psi minimum, lip beveled for smooth transition
- Total projection of bumper blocks of high-strength steel plate
- Formed center plate for added strength
- Steel lever and ball-tipped lifting mechanism in conjunction with roller bearings and dual extension springs
- Capable of servicing trucks 5 inches above and 5 inches below the dock

## Recommended Safety Equipment for Dock Levels

NOVA Truck Lock and Lock & Load vehicle restraint systems help prevent unexpected trailer departure from the loading dock and minimize trailer creep during the loading/unloading process.

## 4. Technical Data

### Applicable Standards

#### American National Standards Institute (ANSI)

- ANSI MH30.1-2007—For the Safety, Performance and Testing of Dock Leveling Devices

#### American Society for Testing Materials (ASTM)

- ASTM A6/A6M—Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling
- ASTM A36/A36M—Standard Specification for Carbon Structural Steel
- ASTM A370—Standard Test Methods and Definitions for Mechanical Testing of Steel Products
- ASTM A786/A786M—Standard Specification for Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy and Alloy Steel Floor Plates
- ASTM D4950—Standard Classification and Specification of Automotive Service Greases

#### American Welding Society (AWS)

- AWS D1.1—Structural Welding Code—Steel

#### National Electrical Manufacturers Association (NEMA)

- NEMA 250—Enclosures for Electrical Equipment (1000 Volts Maximum)

#### National Fire Protection Association (NFPA)

- NFPA 70 National Electric Code (NEC)
- NFPA 79—Electrical Standard for Industrial Machinery

#### Society of Automotive Engineers (SAE)

- SAE J514—Metallic Tube Connections for Fluid Power and General Use

#### Underwriters Laboratories, Inc. (UL)

- UL 508 A—Standard for Industrial Control Panel

## Environmental Considerations

NOVA Technology uses environmentally-friendly material in its packaging where available.

## 5. Installation

Product installation instructions are available online at [www.novalocks.com](http://www.novalocks.com).

## 6. Availability & Cost

### Availability

NOVA Technology products and services are sold entirely through the NOVA Nationwide Dealer Network. For a dealer in your area, routine service, preventative maintenance, product questions, or to request a quote, contact NOVA Technology.

### Cost

Pricing information may be obtained from an authorized NOVA dealer.

## 7. Warranty

NOVA Technology warrants that its products will be free from defects in design, materials and workmanship for a period of one year from the date of shipment.

## 8. Maintenance

Regular maintenance must be performed on a weekly and quarterly schedule. Complete Owner's/User's manual is available online at [www.novalocks.com](http://www.novalocks.com).

## 9. Technical Services

Technical assistance, including more detailed information,

product literature, test results, project lists, or assistance in preparing project specifications, is available by contacting NOVA Technology.

## 10. Filing Systems

- ARCAT®
- Additional product information is available from the manufacturer upon request