



1. Product Name

■ NOVA NMS Series Mechanical Dock Leveler

2. Manufacturer

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3. Product Description

General Description

NOVA's NMS Series Premium Mechanical Dock Levelers incorporate the use of mechanical components to raise and lower both the platform and lip without providing power to the dock leveler. The unit conforms to OSHA, U.S. Department of Commerce Standard CS-202-56 and is manufactured in compliance with the American National Standard of Safety Performance and Testing of Dock Leveling Devices (ANSI) MH 30.1. The levelers are available in a wide variety of sizes and capacities with a standard operating range of 12-inches above and below the dock.

Operation

The dock attendant pulls the release chain which releases the hold-down and allows the leveler to rise and the lip to extend. The attendant then walks onto the leveler to lower the leveler and lip to the bed of the truck or trailer. Contact between the leveler lip and the truck or trailer bed is maintained throughout the loading/unloading process by the hold-down. If below dock operation is required, the front pull chain is pulled which retracts the safety legs and the leveler will lower to the desired position when walking down the leveler. When loading or unloading is complete, the release chain is pulled to raise the leveler and lip off the bed of the truck or trailer. Once the lip has fallen pendant, the attendant walks onto the



leveler to lower it to the stored position.

Structural

The platform is constructed of 1/4-inch thick four-way high tensile 50,000 minimum yield A572 safety tread plate. The platform is reinforced and supported by full-length 6-inch high formed C channels for 25,000-pound Comparative Industry Rating (CIR) capacity to 40,000-pound CIR units, full length 6-inch high structural channel for 45,000-pound CIR units and full-length 6-inch high structural channel and I-beams for 55,000-pound CIR units.

The supports are welded to the deck, front and rear headers for full structural support. The front and rear header plates are 1/2-inch thick x 7-inch high hot rolled steel. NOVA NMS series lips have a four-way safety tread plate, the 25,000-pound CIR is 1/2-inch thick, and the 30,000, 35,000, 40,000, 45,000 and 55,000-pound CIR are 5/8-inch thick. The standard lip length is 16 inches on all capacities. Hinge tubes have a 1 3/4-inch outside diameter (OD) x 5/16-inch wall, 1 7/8-inch OD x 3/8 inch wall or 2 1/8-inch OD x 1/2-inch wall depending on CIR. All lip hinge pins are M1044 steel 1-inch in diameter. Steel header gussets are standard on all models 35,000-pound CIR and above. All units have grease fittings as standard. All platforms are designed to compensate for up to 4-inches of the canted trailer bed.

Safety Features

Retractable cross-traffic legs of solid steel bar construction provide multi-position safety at dock level and below. A self-contained lip extension mechanism yields under impact from incoming trailer. The leveler is equipped with a built-in maintenance strut that is lockout/tagout compliant, working

range toe guards and night lock security.

COLORS

Levelers painted gray.

Dock Bumpers

Two laminated 4-inch 1014 bumpers are standard. 6-inch 1014 bumpers are optional.

Standard Features

- Multi-position structural steel safety legs
- Below dock end loading control
- Extended range float/holdown mechanism
- Multi-spring counterbalance with single-point adjustment
- 16-inch yieldable lip
- Working range toe guards
- Lip hold gas cylinder
- Night locks, cross-traffic support
- Grease fittings
- Steel channel deck support members (25,000, 30,000, 35,000 and 40,000-pound units)
- Structural steel support members (45,000 and 55,000-pound units)
- Three-wheel fork truck protection (45,000 and 55,000-pound units)
- Two 4-inch 1014 laminated bumpers
- Easy clean frame design

Optional Features

- Rubber weather seal
- Brush weather seal
- Optional bumper sizes and types available
- Three-wheel support (25,000 to 40,000-pound units)
- Full range toe guards
- 18-inch lip
- 20-inch lip
- 24-inch riser kit (24-inch pit depth is standard on all 10-foot long levelers)
- Wash down
- 2-inch foam insulation
- Spray metalized
- Cut down leveler length and width
- Stainless steel pins and lip rods
- Steel pan: 4-sided
- Quick pit: 3-sided
- Three-wheel support

Benefits

- Patented holdown assembly allows for full float and automatic release capability with air ride trailers, preventing failure or damage from overextension
- Simple operation with a cam and roller counterbalance system that assures smooth dependable walk down
- Easy pull-chain activation with fingertip release
- Positive lip extension with yieldable lip
- Below-dock end load capability
- Single point spring adjustment
- Full-width rear hinge mounted in compression with structural channel support
- Integral maintenance strut is lockout/tagout compliant with lip support strut that also allows convenient servicing of the lip

Recommended Safety Equipment for Dock Levelers

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

American National Standards Institute (ANSI)

- ANSI MH30.1-2007—For the Safety, Performance and Testing of Dock Leveling Devices
- ANSI Z535.1—Safety Color Code
- ANSI Z535.3—Criteria for Safety Symbols
- ANSI Z535.4—Product Safety Signs and Labels

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 A689—Standard Specification for Carbon and Alloy Steel Bars for Springs
- 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

Environmental Considerations

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

5. Installation

Unit shipped completely assembled and ready for installation in preformed concrete pit. Pit construction to be in accordance with certified NOVA pit detail drawings.

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 may be obtained from an authorized NOVA dealer.

7. Warranty

In addition to the Standard Product Warranty provided with all NOVA Products, NOVA Technology guarantees materials, components and workmanship to be free of defects for the following extended period.

Structural Warranty—for a period of five years from the date of shipment, product will carry a prorated structural warranty. This warranty specifically applies to; the deck section, lip section, frame, rear hinge assembly and front hinge assembly only. This warranty covers structural repairs to or replacement of dock leveler in NOVA Technology sole discretion and expense including reasonable labor, materials, freight and travel. If NOVA Technology determines replacement is necessary, it will provide the original purchaser with a credit toward the purchase of the new replacement NOVA Technology product in the amount equal to the original purchase price of the warranted product F.O.B. point of manufacture, discounted on a five year straight line basis by the number of years of use prior to replacement.

Complete warranty terms and conditions are available online at www.novalocks.com.

8. Maintenance

Regular maintenance must be performed on a weekly and quarterly schedule. A complete Owner's/User's manual is available online at 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

 **WARNING:** This product can expose you to chemicals including lead, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov