



1. Product Name

■ NOVA NAS Series Air Powered Dock Leveler

2. Manufacturer

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3. Product Description

General Description

NOVA's NAS Series Premium Air Powered Dock Levelers incorporate the use of a low pressure, high volume air system to raise and lower the platform. A single push-button activates the air power system to raise the leveler and extend the lip. 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.

Operation

The push-button is depressed and held allowing the electric blower to fill the air bladder which raises the platform. When the fully yieldable lip extends at the top of the cycle the button is released allowing the extended lip and platform to lower onto the trailer bed. Upon trailer departure the lip can be retracted and the unit restored to a safe cross-traffic position. In-use and stored positions are achieved without manual operation. Operable range is 12 inches above/below dock level. Platform is allowed to automatically float up and down with trailer movement.

Structural

The platform is constructed of ¼ inch thick four-way high tensile 50,000 minimum yield A572 safety tread plate. Platforms are 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 inches height structural channel for 45,000 pound CIR units and full length 6 inches high structural channel and I-beams for 55,000 pound CIR units, all welded to the deck for firm structural support.

Front and rear header plates are ½-inch thick × 7-inch high hot-rolled steel. NOVA's NAS series lips are four-way safety tread plate, the 25,000 pound CIR is ½ inch thick and the 30,000, 35,000, 40,000, 45,000 and 55,000 pound CIR are ⅝ inch thick. The standard lip length is 16 inches on all capacities. Hinge tubes are 1¾ inches OD × ⅝ inch wall, 1⅞ inch OD × ⅜ inch wall or 2⅞ inches OD × ½ inch wall depending on CIR. All lip hinge pins are 1 inch diameter M1044 steel. Steel header gussets are standard on all models 35,000 pounds CIR and above. All units have grease fittings as standard. All platforms are designed to compensate for up to 4 inches of canted trailer bed.

Electrical

Electric blower motor is 115V single-phase, 1400 watts drawing 11 amps at startup. Electrical control panel is non-metallic NEMA 4 enclosure. All components, connections and wiring are UL listed or recognized.

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 built-in maintenance strut that is lockout/tagout compliant night lock security. Full-range telescoping toe guards close off sides even in highest upward position.

Color

Levelers painted gray.

Dock Bumpers

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

Standard Features

- Single-phase 115V motor w/single button control
- Multi-position structural steel safety legs
- Below dock end loading control
- Full-range telescoping toe guards
- 16-inch yieldable lip
- Grease fittings
- Easy clean frame design
- Night locks, cross-traffic support
- 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)
- NEMA 4 (push button box)
- Two 4-inch 1014 laminated bumpers

Optional Features

- Rubber weather seal
- Brush weather seal
- V-112 bumpers
- B-610-14 bumpers
- Three-wheel support (25,000 to 40,000 pound units)
- 18-inch lip
- 20-inch lip
- 5-inch barrier lip; 8 feet or longer only 35,000+ pound units
- 24-inch riser kit (24-inch pit depth is standard on all 10-foot long levelers)
- Wash down
- 2-inch foam insulation
- Spray metalized
- Control box stanchion
- Cut down leveler length and width
- Stainless steel pins and lip rods
- Steel pan: 4-sided
- Quick pit: 3-sided

Benefits

- Easy push-button activation for smooth, consistent operation with an air powered system that provides for full float at all positions

- Automatic lip extension with yieldable lip
- Below-dock end load capability
- Full-width rear hinge mounted in compression with structural channel support
- Single-phase 115V motor with simple button control
- Low-maintenance design
- 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

Applicable Standards

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 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 Panels

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 product 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

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 periods:

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 ten year straight line basis by the number of years of use prior to replacement.

Pneumatic Warranty—for a period of four years from the expiration of the Standard Product Warranty, NOVA Technology will provide replacement component parts from defective lifting system. This warranty specifically covers material and freight only and applies to; the air bladder, seals, hoses and motor assembly.

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. Refer to manufacturer's documentation for detailed instructions. A complete Owner's/User's manual is available 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