



1. Product Name

■ NOVA EZ-Lock™ Vehicle Restraint

2. Manufacturer

Nova Technology International, LLC
W141N9240 Fountain Blvd
Menomonee Falls, WI 53051

Phone: (262) 502-1591
(800) 236-7325

Fax: (262) 502-1511

E-mail: sales@novalocks.com

Website: www.novalocks.com

3. Product Description

General Description

The NOVA EZ-Lock™ is a manual hook-style vehicle restraint that secures the trailer's rear impact guard (RIG) at the dock to reduce the risk of premature departure and trailer movement during loading and unloading. Its spring-loaded housing lowers with truck contact, positions the unit with the RIG bar and automatically adjusts to trailer float. The EZ-Lock™ has an enhanced design with a patented Triple Range Hook that outperforms competitor hook-style restraints.

The EZ-Lock™ has an engagement range of 9 to 31-inches (220 to 787-millimeters) and mounts to the dock face above ground level to stay clear of accumulated precipitation and debris. Its elevated installation protects it from the elements, along with zinc plating for added corrosion resistance.

Operation

As the trailer backs into position, the RIG contacts the spring-loaded structural steel housing, which rides down in its track and allows the RIG to move over the top of the housing. The dock attendant uses supplied handle and pushes down on pad of restraint with a slight twist to unlock hook from stored position. This allows hook to contact RIG to secure the trailer to the dock. The rotating hook can withstand a pull-away force of over 32,000-pounds. The EZ-Lock restraint maintains contact with the RIG and adjusts automatically with trailer float motion to ensure proper engagement at all times. After unloading/loading is complete, the dock attendant uses handle again and simply pushes down on pad of restraint to lock hook in stored position.



Secures pentagonal RIG bars



Engages reinforced RIG bars with 4 1/2-inch vertical center plates



Secures standard trailers and any vehicle with an open RIG bar

Structural

The rotating hook can withstand a pull-away force of over 32,000-pounds and is machined from 1 1/4-inch thick A514 Grade B steel plate and driven with a 1 1/4-inch diameter shaft made from cold-rolled 1008 steel. The carriage side plates are constructed from abrasion-resistant 200F steel for maximum defense against wear from contact and friction with the RIG. The 1 1/4-inch diameter carriage axles and 2 5/16-inch diameter rollers are both made from cold-rolled 1045 steel. The roller track is formed out of ASTM A572 Grade 50 steel into a 6 3/8 x 3-inch channel with 7/8-inch flanges. The roller track is attached to the dock face with 15 heavy-duty sleeve anchors that each measure 5/8 x 4-inch long.

Standard Features

- Manual operation means that no electrical installation is required
- Triple Range Hook
- Equipped with an easy-to-use handle

Optional Features

- Articulated slope extension
- Projection brackets and reinforcing plates
- Manually activated inside and outside signal lights

Benefits

- Secures RIG bars that are rectangular, pentagonal and feature 4 1/2-inch vertical center plates
- Triple Range Hook safely secures RIGs while the hook is at various heights
- Elevated hook shank maintains engagement with RIG
- Hook is upwardly biased and rotates to increase engagement if contacted by the RIG when trailer shifts during loading and unloading
- Designed to withstand more than 32,000-pounds of pulling force

4. Technical Data

Applicable Standards

American National Standards Institute (ANSI)

- ANSI MH30.3—Vehicle Restraining Devices Safety, Performance and Testing
- 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 B117—Standard Practice for Operating Salt Spray (Fog) Apparatus
- ASTM D4950—Standard Classification and Specification of Automotive Service Greases

American Welding Society (AWS)

- AWS D1.1—Structural Welding Code, Steel

Federal Motor Vehicle Safety Standards and Regulations (FMVSS)

- FMVSS 223—Laboratory Test Procedure for FMVSS 223 Rear Impact Guards
- FMVSS 224—Rear Impact Protection

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.

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

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, provided the purchaser maintains and operates the EZ-Lock™ in accordance with the Owner's Manual:

- **Extended Two Year General Warranty**—for a period of two (2) years from date of shipment, this warranty only applies to the roller track assembly, carriage assembly
- **Extended Five Year Structural Warranty**—for a period of five (5) years from date of shipment, product will carry a prorated structural warranty. This warranty only applies to the roller track, carriage weldment, hook, and lower spring bar

8. Maintenance

Product maintenance and operation are specific to product types and are 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

- Additional product information is available upon request.

NOVA Technology engages in ongoing product development and reserves the right to make changes and improvements to any of the products described in this document without prior notice.