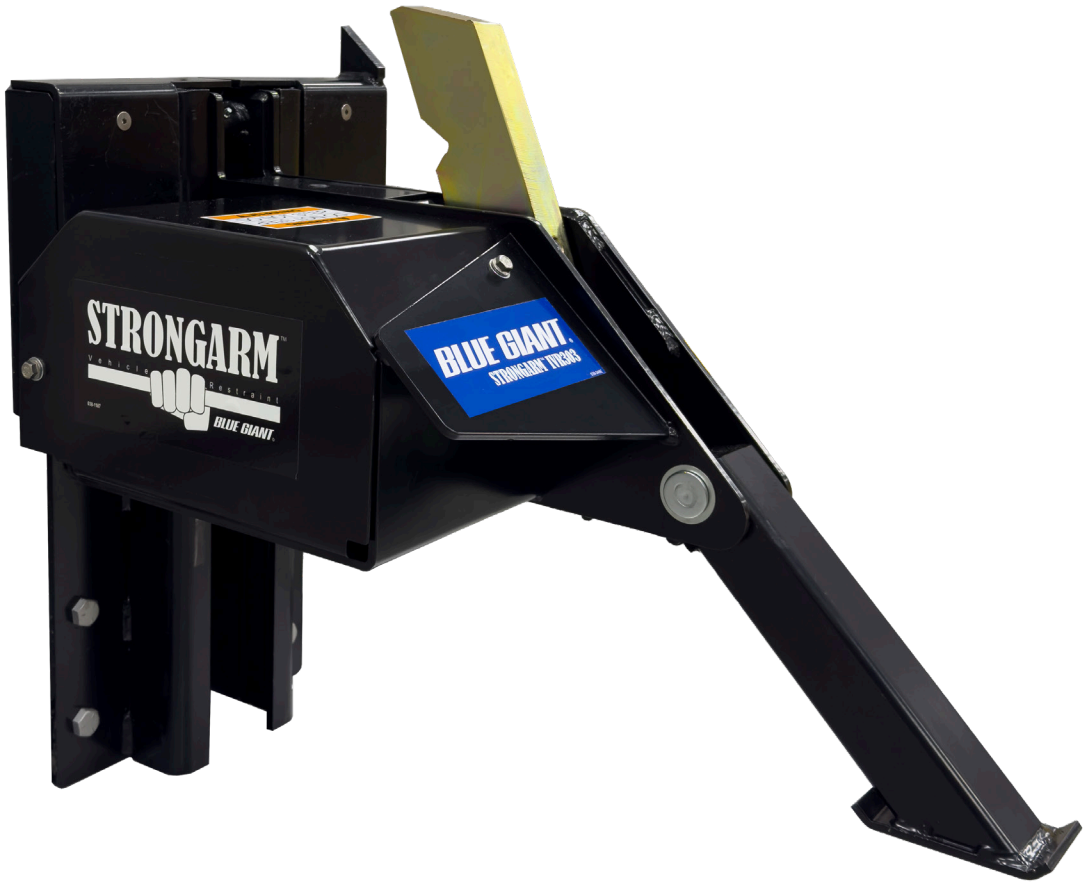
BLUE GIANT®

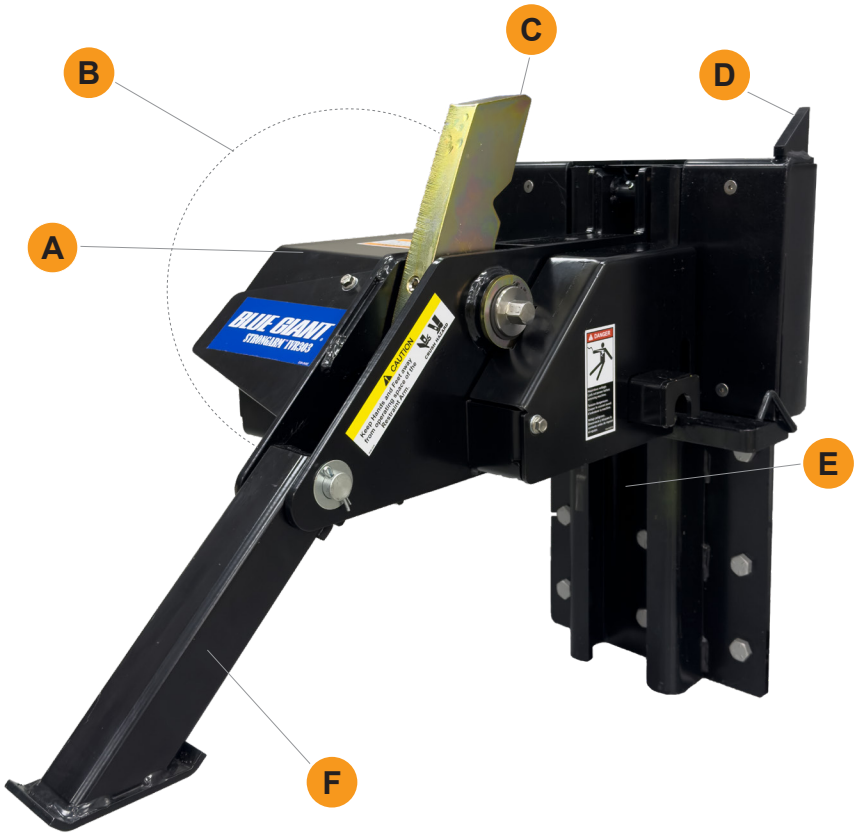
STRONGARM® IVR303



STRONGARM®
Vehicle Restraint

Smart, Universal Restraint.

Intelligent release. Two-position locking to reduce trailer creep.
Built for a full spectrum of truck and trailer types.



A

Instant Compensation Float: Automatically compensates for vertical trailer movement from forklift traffic and suspension rebound.

B

Compact Rotating Arm: Optimized arm projection minimizes interference with common obstacles behind RIGs such as brake chambers, pintle hitches, and gladhand air hoses.

C

Electro-Mechanical Arm: Durable, high-visibility zinc dichromate finish provides high corrosion resistance for long-term operational reliability.

D

Lip Guide: Helps prevent dock leveler lip interference with the restraint during operation.

E

Reinforced Carriage and Track Assembly: Reinforced carriage, heavy-duty roller track, and laminated stress zones reduce wear and fatigue from trailer impact and sustained pressure.

F

RIG Bar Guide with Curved Ski Bottom: Automatically positions the trailer RIG into the optimal engagement plane while gliding across pavement to prevent driveway penetration.

H

Intelligent Positioning System (IPS): Submersible digital sensing continuously monitors arm position and communicates accurate real-time restraining status to the control panel.†

G

Dual Actuators: Independently powered restraint arm and locking mechanism deliver positive mechanical engagement across a wide range of RIG profiles without reliance on springs, gas shocks, or gravity.†

† Feature not shown

FEATURES

SMARTRELEASE™

SmartRelease™ automatically detects failure-to-release (FTR) conditions occasionally caused by trailer creep pressure. The system signals the driver via the traffic light to back up slightly, and automatically disengages the arm once the excessive pressure is relieved.

- Reduces dwell time associated with FTR conditions in high-cycle operations.
- Supports no boots on the ground safety policies by minimizing manual intervention.

UNIVERSAL RIG SECURING PERFORMANCE

A dual-actuator mechanical locking system positively secures RIGs independent of bar shape, delivering consistent securing performance across variable trailer conditions and ride heights.

- Reliably secures standard, irregular, and damaged RIG bars.
- Accommodates square and emerging pentagonal RIG designs.
- Engages intermodal chassis with plate-style guards for export container applications.



Standard square RIG



Pentagonal RIG



Intermodal chassis with plate-style RIG

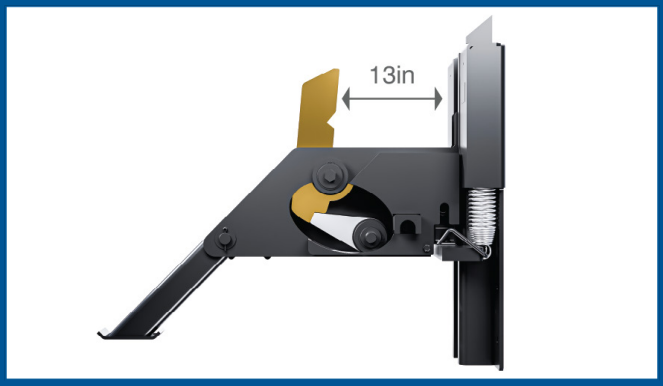


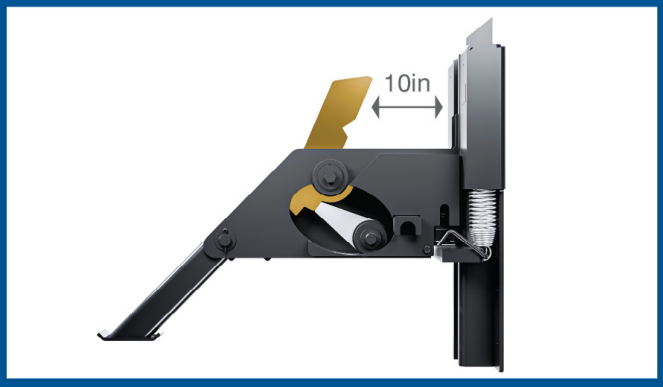
Pentagonal RIG with a notch

POSILOCK™ TRAILER CREEP PROTECTION

Patented PosiLock™ technology features a two-position mechanical locking notch that automatically secures RIGs at the closest available locking position, either 10” or 13” (254 or 330 mm) from the dock face.

- Minimizes trailer creep during loading and unloading for improved trailer stability.
- Reduces the risk of trailer separation accidents at the dock.
- Maintains positive mechanical lock, even during power loss.





INSTANT COMPENSATION FLOAT

Instant Compensation Float maintains continuous restraint-to-RIG contact with self-adjusting vertical travel, accommodating a 9”–30” (228–753 mm) restraining range.

- Accommodates varying trailer heights, including low-profile trucks.
- Keeps the RIG securely contained during load transfer, enhancing dock safety.

ADVANTAGES

INTELLIGENT TOUCH CONTROLS

IVR303 is operated by Blue Genius® Connect Control, offering intuitive control of the restraint and other dock equipment from a single panel.

- Interior and exterior LED traffic lights communicate safe loading conditions.
- Reduces operator errors, ensures ease of use, and streamlines dock operations.

STRENGTH YOU CAN DEPEND ON

Up to 35,000 lb (15,909 kg) of restraining force for secure trailer engagement.

- Reinforced carriage and track assembly resist high pull-away forces.
- Complies with ANSI MH30.3, compatible with NHTSA regulation FMVSS 223/224 and CMVSS regulations.

BUILT FOR ALL-WEATHER RELIABILITY

Engineered for harsh outdoor environments, the IVR303 features IP67 / NEMA 6 rated components, a durable PowderCoat™ finish with zinc-enriched protection, and a zinc-dichromate coated restraint arm to resist corrosion and environmental exposure.

- Performs reliably in rain, snow, and washdown environments.
- Reduces corrosion-related maintenance to extend equipment service life.

OPERATION FLEXIBILITY

Designed to support diverse trailer handling scenarios, yard configurations, and specialized vehicle configurations.

- Supports live loading and drop trailer operations.
- Compatible with yard tractor / yard jockey workflows.
- Accommodates B-train and pintle hitch trailer configurations.

STREAMLINED INSTALLATION

Designed for fast, straightforward setup across standard dock configurations. Includes BlueGenius® Connect control panel, advanced light communication system, dock and door interlock sensors, safety signage, complete mounting hardware.

- Mounting: 28 1/2” (724mm) dock face
- Electrical: 115 VAC / 1 Phase / 15 A / 60 Hz
- Dock Height: Optimized for 48” standard

TRAILER COMPATIBILITY

IVR303 allows a single dock position to accommodate a broad range of trucks and trailers, improving dock flexibility and utilization.

- Standard dry van and refrigerated trailers.
- Intermodal containers on chassis or flatbeds.
- Pup trailers, doubles, and straight trucks.
- Specialized trailer configurations.



Northern Dock Systems Inc.
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Blue Giant offers a full line of dock levellers, dock safety equipment, seals and shelters, accessories, ergonomic and scissor lift equipment and industrial trucks. Concurrent with our continuing product improvement program, specifications are subject to change without notice. Please contact Blue Giant for latest information. Some features illustrated may be optional in certain market areas.

If calling within North America: t 1.800.872.2583 f 1.888.378.5781

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