

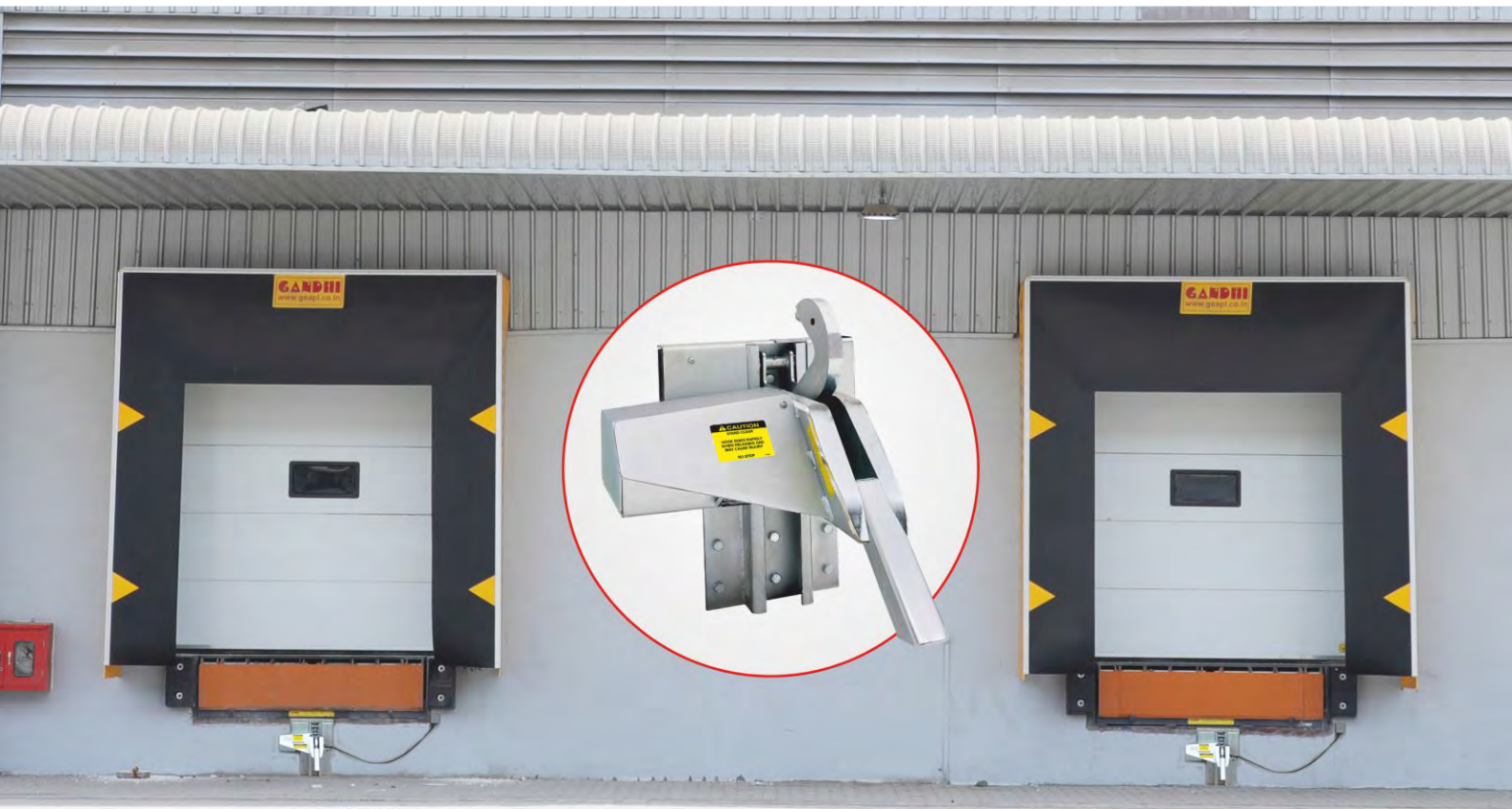
TRUCK HOOK RESTRAINT



GANDHI
Automations Pvt Ltd

India's **No.1** Entrance Automation & Loading Bay Equipment Company

Truck Hook Restraint



Safety and reliability are crucial factors when it comes to industrial loading bay equipment. Truck hook restraint systems are used to enhance safety, efficiency, and productivity during the loading and unloading of goods from trucks and trailers. The primary function of a vehicle restraint system is to prevent unintended movement of trucks and trailers while they are parked at a loading dock. This helps to avoid accidents, injuries, and damage to both personnel and equipment.

Whether unloading or loading manually or with a forklift or hand truck, vehicle movement is an avoidable hazard that puts loading bay personnel, equipment and cargo at risk. The most common hazards are

- Trailer Creep
- Early Departure
- Trailer Pop-Up or Up-Ending
- Landing Gear Collapse
- Trailer Pinch



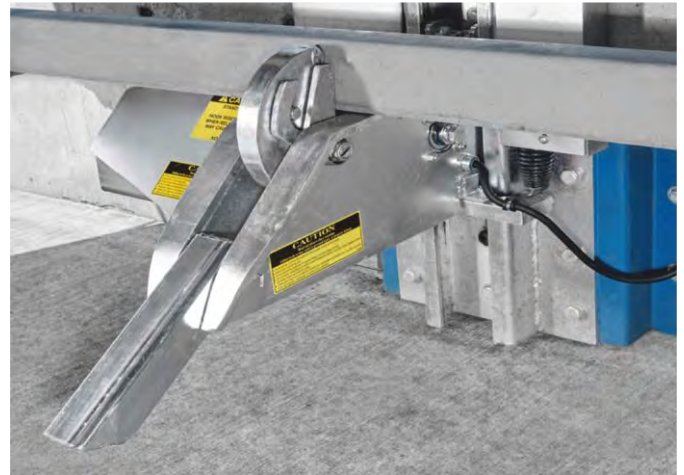
Automatic vehicle restraint designed to secure trucks at the loading dock by using a large rotating hook to engage a trailer's rear impact guard (RIG). The trouble free operation and long-term reliability with 14,500 Kgs. of restraining force.

Loading dock safety is improved with the NO-PINCH auxiliary lock. In addition, the front carriage reinforcement acts as a guard and provides unequalled protection from damage caused by incoming trailers.

The low profile housing automatically adjusts to various trailer heights and movement and lowers to 230 mm above grade, avoiding potential damage from low RIG's. The restraint is stored above ground level, keeping free of dust, ice and debris.

FEATURES

- No-pinch Auxiliary Lock System IP66 Rated Waterproof Motor / Gearbox
- Front carriage reinforcement acts as a guard and provides unequalled protection from damage to the vehicle
- Upward biased housing and hook keep constant contact with rear impact guard
- Solid state control system with diagnostics
- Over 14,500 kg of restraining force and 45,000 kg of mounting force
- Large rotating hook design prevents unscheduled departure, trailer creep and tip over
- Direct drive system eliminates high maintenance clutch, chain and brake components
- Waterproof IP67 rated hook position sensor eliminates failure prone mechanical limit switches
- Fault sensor alarm alerts operator when a missing or damaged rear impact guard is detected
- Above ground storage provides easy dock clean-up and keeps housing clear of dust, ice and debris
- Low-profile housing lowers to 230 mm



OPERATION

As the driver backs the truck into the loading dock, the trailer's RIG makes contact with the restraint housing, automatically positioning the housing under and firmly against the RIG.

With the truck in position, the driver sets the brakes and chocks the wheels. The dock attendant pushes the lock button, activating and positioning the large rotating hook in front of the RIG, safely securing the trailer to the loading dock.

During loading/unloading, the housing automatically adjusts to the trailer's movement while the hook positioning sensor monitors the hook and provides constant upward biased pressure against the RIG, preventing hazards such as trailer creep, early departure and/or tip over.

When no RIG is detected, the hook automatically stores away to avoid damage and goes into fault mode, sounding an alarm to alert the dock attendant. Pushing the override button will silence the alarm while the communication lights indicate a caution condition.

Once the loading cycle is complete, the dock attendant stores the hook by pressing the release button, inside and outside lights then signal the driver and dock attendant when it is safe for the truck to leave.

COMMUNICATION

High-visibility red and green inside and outside LED lights with operator instructions on inside control panel cover and outside mounted sign with clear, large, forward and reverse lettering for drivers.

If power is lost, the inside and outside lights flash to indicate a power loss condition that is maintained until power is restored. An audible alarm and inside red light warns dock attendant when no RIG has been detected.

CONSTRUCTION

The enclosed housing design is a structural welded assembly constructed with 8 mm thick side plates and 12 mm high tensile reinforcement on leading edge to withstand repeated impacts from backing trailers.

The large rotating hook is constructed of 32 mm thick steel and is attached to the housing using a superior 32 mm diameter shaft. Zinc plated components include mounting plate, track, hook, housing, and brackets. The housing also comes with black and yellow caution markings for improved visibility.

Waterproof IP67 rated hook position sensor for trouble free non-mechanical hook monitoring.

Drive system consists of a direct-coupled IP66 waterproof rated high torque DC motor and high efficiency helical gears.



STAR EXPORT HOUSE
(Government of India Recognised)



Gandhi Automations operates a policy of continuous development and reserves the right to make technical modifications / replacements without prior notice.

GANDHI

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