

# RESTRAINT VEHICLE

**KELLEY®**





Every day, thousands of people count on Kelley to keep their loading docks safe. That's why we've developed a comprehensive lineup of simple, reliable, low-maintenance safety products, specially designed to prevent loading dock accidents.

## DON'T COMPROMISE ON SAFETY.

Loading dock accidents can have serious consequences for any company — both in physical injuries and financial obligations. Yet, in many cases, they can be prevented with proper safeguards. Common accidents include:

- Forklifts driving off the dock because a vehicle leaves before loading or unloading is completed.
- Vehicles creeping away from the dock as forklifts continually move in and out during loading or unloading, creating a dangerous gap between the vehicle and the dock.
- Collapse of vehicle landing gear due to constant rocking motion of forklifts moving in and out during loading.

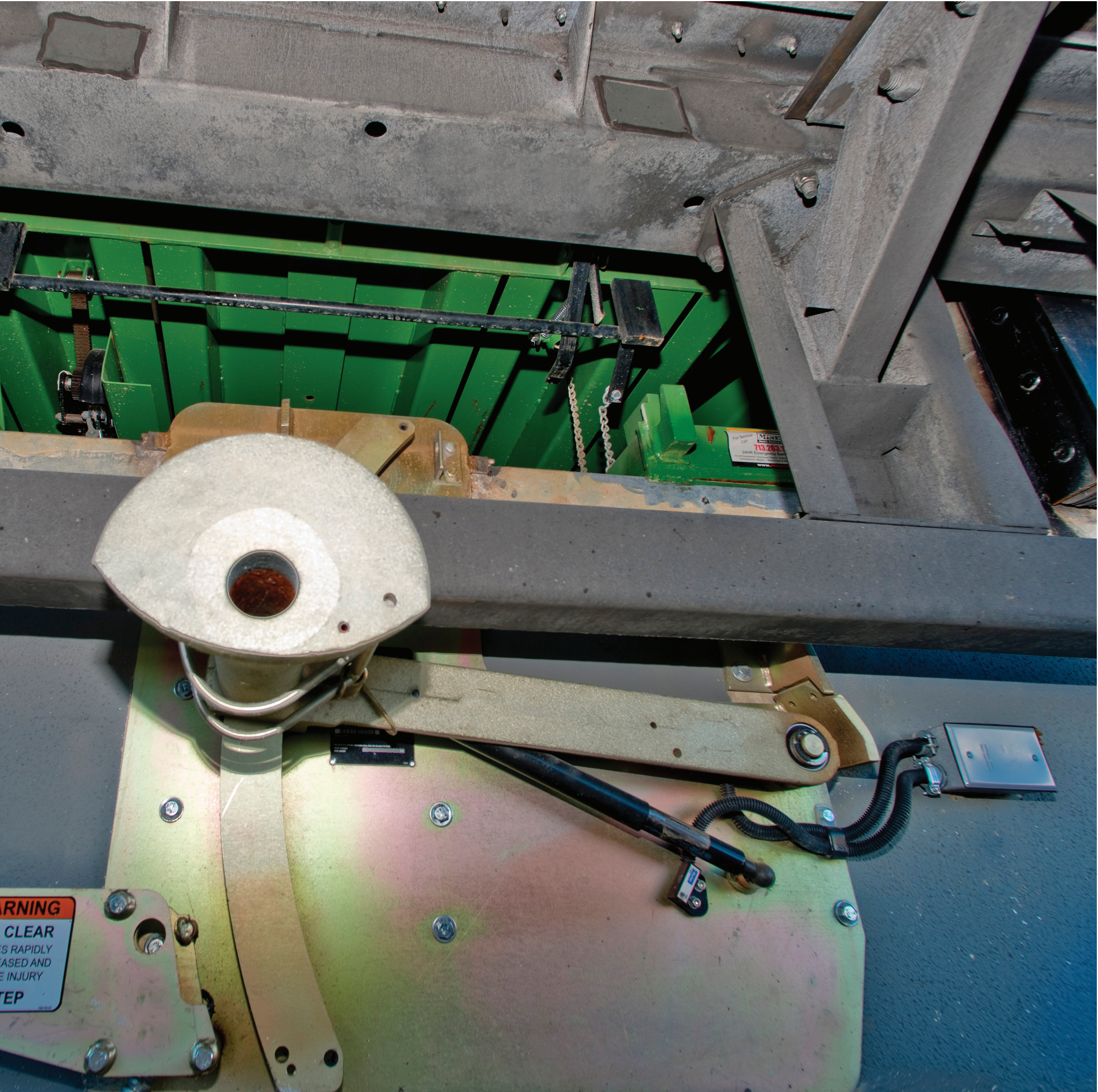
Preview the full range of safety products designed to prevent these types of costly accidents.

## STAR® VEHICLE RESTRAINTS SUPERIOR PERFORMANCE TO SATISFY OSHA AND YOUR BOTTOM LINE.

When it comes to restraining vehicles during loading and unloading, the Occupational Safety & Health Administration (OSHA) is very clear:

All vehicles must be restrained during loading and unloading.\* The responsibility clearly rests with the employer.

\* Requirement 29 CFR 1910.178 (k) (1)





# MODELS

## A VEHICLE RESTRAINT FOR EVERY APPLICATION.

Available in both mechanical and hydraulic models, Kelley STAR® Series trailer restraint systems and the unique Kelley HH Series Hidden Hook™ Recessed Vehicle Restraint are at the forefront of technology in the industry, bringing you design simplicity, the fewest moving parts, minimal maintenance and ease of operation.



### MANUALLY OPERATED STAR 1

Our base model, the manually operated STAR 1, offers excellent performance and value and is an economical alternative to the STAR 2.

- Manual operation is ergonomically friendly and not physically demanding
- Easy-to-use push bar allows dock worker to engage and release hook from dock level



### MANUALLY OPERATED STAR 2 WITH SENSOR BAR SYSTEM

The STAR 2 is an exceptional value offering manual operation plus Kelley's exclusive sensor bar and the industry's most effective communication system:

- Exclusive sensor bar system is activated by positive hook/rear impact guard contact
- Interior & exterior LED red/green communication lights
- Simple, manual, non-impact operation
- 32,000 lbs. of restraining force
- Works with nearly all styles of rear impact guards and types of dock levelers
- Low profile - Stores at 9.5" off grade
- Requires low maintenance
- Low cost of ownership

### LINEAR ACTUATED STAR® 4

The STAR 4 vehicle restraint offers a higher level of automation and convenience. The restraining arm is raised and lowered automatically at the touch of a button by a linear actuator drive system.

- Exclusive sensor bar
- Interior & exterior LED red/green communication lights
- 9" x 20" x 8" control box
- Alarm provides audible alert if sensor bar/rear impact guard contact is not made
- 32,000 lbs. of restraining force
- Works with nearly all styles of rear impact guards and dock levelers
- Low Profile
- Requires low maintenance
- Low cost of ownership
- Programmable logic controller (PLC)
- Lip limit switch



### HYDRAULICALLY ACTIVATED HH SERIES HIDDEN HOOK™

The HIDDEN HOOK is a unique, non-impact, recessed design. The pit-mounted vehicle restraint that provides a clean, unobstructed dock area when stored and effectively controls vehicle movement by grabbing and holding the rear impact guard throughout the loading and unloading process.

- Pit mounted, recessed design
- Non-impact, hydraulic activation
- Automatic interior/exterior LED communication lights
- Steel interlock capable control panel
- Programmable logic controller (PLC)
- Horizontal range 4" - 14" from dock face
- Vertical hook range 9" - 28"
- Power to match dockleveler
- Advanced safe engagement signaling
- Auto Restore (if no rear impact guard)
- Engages extra-low rear impact guards
- Unrestricted dock access for hydraulic lift gate trailers







# FEATURES

## VEHICLE RESTRAINTS: THE BENEFITS.

Vehicle restraints are the some of the best performing and least costly restraints to operate. Here's why:

**NON-IMPACT OPERATION.** All Kelley STAR vehicle restraint models are based on non-impact operation, an advantage that offers many benefits:

- No rear impact guard damage
- Longer service life
- Better, more reliable performance
- Less maintenance
- Compatible with NHTSA regulation rear impact guards

**SUPERIOR COMMUNICATION.** STAR restraints offer positive communication systems to help avoid one of the biggest dock safety problems — poor communication between dock workers and vehicle drivers:

- Exclusive hook-mounted sensor bar senses actual contact between the throat of restraint arm and the vehicle's rear impact guard
- Standard LED exterior and interior lights
- Easy-to-see printed signs
- Audible alarms

**RECESSED DESIGN.** The HH3000 vehicle restraint system is mounted in a pit under the leveler and, when retracted, offers a clean dock face, allowing unobstructed access to smaller delivery vehicles:

- Horizontal hooking range: 4" – 14" from dock face
- Vertical hooking range: 9" – 28"
- Advanced safe engagement signaling
- Auto restore (if no rear impact guard)

**LOW MAINTENANCE & SIMPLE DESIGN.** STAR vehicle restraints exhibit unmatched design simplicity, another advantage with several benefits:

- Fewer moving parts, fewer problems
- Easier, more reliable operation
- Reduced training requirements
- Lower maintenance costs (labor and parts)
- Longer service life
- No alignment
- No scheduled adjustments
- No lubrication

## PROGRAMMABLE CONTROL SYSTEM: Flexibility At Your Fingertips.

The Kelly Restraint Control Panel is a streamlined, easy-to-use interface for operating trailer restraints at the dock. The innovative and streamlined restraint control features a thin, space-saving profile as well as a singular NEMA 4X rated LED Composite Light with multiple display ability. This bright, easy-to-understand indicator light alerts drivers and workers to the state of the dock before taking action.



Advance wiring board technology significantly saves interior panel space making room for additional options and integration of other dock equipment controls into the same panel.



## INTEGRATE YOUR KELLEY EQUIPMENT

When integrated with Kelley vehicle restraints, dock levelers, doors and other dock devices are prevented from operating until the trailer is firmly locked in place, providing an added level of safety and efficiency to your dock.



# PICK THE VEHICLE RESTRAINT THAT FITS.

Kelley provides a complete line of non-impact, low-profile restraints to fit virtually any application and budget.

COMMUNICATION SYSTEM:	Star 1	Star 2	Star 4	HH Series Hidden Hook
Caution sign is mounted outside, for vehicle drivers.	●	●	●	●
Warning sign is mounted inside, for dock workers.	●	●		
Exclusive sensor bar automatically senses and communicates the actual contact between the throat of the restraint arm and the vehicle's rear impact guard.		●	●	
Interior & exterior LED red/green communication lights.		●	●	●
Operating instructions printed on control panel.		●		●
OPTIONS:				
Truk Alert™: Interior and exterior LED compact lights with manual toggle switch.	●			
Key switch override for alarm system.			●	●
Audible alarm that sounds if restraining arm does not contact rear impact guard; includes push-button reset.		●	●	●
Stand Off is available for use with Edge-of-Dock levelers or bumpers that exceed 4" projection.	●	●	●	



**Kelley**  
 1612 Hutton Drive, Suite 140  
 Carrollton, TX 75006  
 800.558.6960  
[www.kelleydocksystems.com](http://www.kelleydocksystems.com)

4Front Engineered Solutions reserves the right to change specifications and designs without notice and without incurring obligations. 4Front Engineered Solutions products may be the subject of one or more U.S. and/or foreign issued and/or pending design and/or utility patents. Kelley as word and logo are registered trademarks belonging to ASSA ABLOY Entrance Systems AB or other companies controlled by the same organization. All rights reserved.

©ASSA ABLOY. All rights reserved. Part of ASSA ABLOY Form # KCB-RV00-3427