

**TL85 / ML10 Vehicle Restraint**  
hydraulic and mechanical models

**BLUE GIANT®**



**w.w.Cannon, Inc.**

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## Reduce Loading Dock Injuries, Forklift Damage & Insurance Claims

Vehicle Creep. Unscheduled truck departures. Careless parking. It happens at the best of loading docks. In a busy shipping area, there can be up to 100 opportunities a day, per single loading dock, for the most serious mishap to occur. Blue Giant reduces the risks of costly equipment damage and physical injury while increasing productivity with a cost-effective choice of Hydraulic and Mechanical Vehicle Restraint Systems.

When it comes to serious loading dock safety and performance, there are many choices—all under the Blue Giant name.

Patented Vehicle Restraint technology centers around a non-impact 'swing-up' arm design to confine a vehicle's rear impact guard or ICC bar. Vehicles remain safely stationed at the dock without time consuming and uncertain chocking. Blue Giant's Restraint Systems service the widest range of trucks with rear impact guards to 29" (737 mm) above ground and horizontal ranges to 12" (305 mm) beyond the face of the dock. Bent ICC bars included. Lock-up problems from hook and impact design restraints excluded.

Keeping maintenance to a minimum is Blue Giant's objective. All our products are engineered with the focus of minimizing regular maintenance requirements resulting in significant savings over the total life cycle of the product. But loading dock safety calls for much more than vehicle restraints alone. So Blue Giant delivers premium quality Driver Communications Systems. These combinations of signal lights, controls and signage advise both truck driver and dock attendant of safe/unsafe, park/depart conditions. High visibility safety systems are available for automated, integrated and manual control situations.



### Top Warehouse Accidents

- Falls from high places including docks or slips
- Forklifts overturning
- Failure to enforce the use of personal protective equipment
- Injuries caused by unguarded machinery and equipment

*\* Excerpt from Warehousing Management.*

# TL85 Hydraulic Vehicle Restraint System

Electro-hydraulic operation. Simplicity of design and minimal maintenance paired with the Blue Genius™ Touch Controls puts the NEW TL85 hydraulic vehicle restraint in front of more loading docks, world wide.

## Safety secured with the push of a button

- Only 3 major moving parts – hydraulic lift cylinder and dual heavy-duty return springs.
- Applies 35,000 lbs. (15,909 kg), of restraining power 100,000 lbs. (45,455 kg) mounting force.
- Restraint arm manufactured from 1.5" (38 mm) solid steel.
- Corrosion-resistant Nitride coating on piston rod. Cylinder is completely sealed against foreign contamination.
- Power available for single or three-phase operation with all voltages.
- Stop button.
- 50 degree increased range sensor.
- Dock interlock sensor.
- NEMA4 rated sensors.
- Automatic arm valve maintains the arm in locked position.
- Maintenance free sensors indicate presence of the ICC bar, the safe locked position range of the arm, and the safe lowering of the arm before trailer departure.
- High performance power pack remotely mounts indoors where it is protected from the elements and easily accessible.
- NEMA4X control station features no moving parts, touch technology buttons, LCD message status, LED communication lights and an optional audible alarm to signal an unsafe condition.
- System operation is authorized by key pad on main control station.
- In vertical (locked) position, the TL85 Hydraulic Vehicle Restraint offers one of the widest horizontal ranges of 0" to 12" (305 mm) beyond the face of the dock.
- Services trucks with ICC bars from 12" to 29" (305 mm to 737 mm) above ground.
- Effective trailer theft deterrent.
- Consult factory for international trailer configurations.



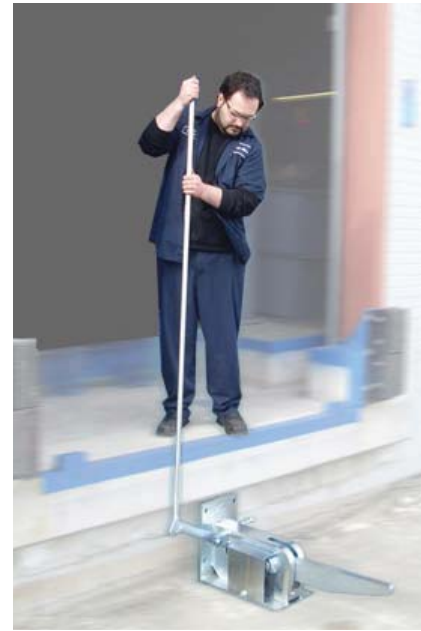
- Communication system includes interior red, yellow and green indicator lights in the control station. Exterior red and green high visibility LED lights and dual driver warning signs with mirror image. Communication system alerts both truck driver and dock attendant to status of restraint.
- In the rare event of a truck without proper ICC bar, the ICC sensing system alerts dock attendant and driver of unsafe condition.
- Can be integrated with most competitive dock models.

## Economical Loading Dock Insurance

Simplicity of design, heavy-duty construction and minimal maintenance/lubrication requirements reflect on long-term low cost of operation. Restraining power 30,000 lbs (13,636 kg). With the ML10, the loading dock attendant controls safety and productivity quickly and efficiently with a single detachable control rod.

## ML10 Mechanical Vehicle Restraint System

- The ML10 offers one of the widest horizontal restraining ranges of 0" to 12" (305 mm) beyond the dock face.
- Corrosion protection includes liberal Zinc plating and stainless steel pivot point hardware.
- Services trucks with ICC bars from 11" to 29" (279 mm to 737 mm) above ground.
- Restraint arm manufactured from 1" (25 mm) solid steel.
- Dual driver warning signs included.



## Loading Dock Accessories

### TL85 Automatic Combination Control Panel

The ultimate in dock safety. A single control for both hydraulic dock leveler and TL85 Hydraulic Vehicle Restraint. Leveler operation is restricted until truck restraint secures trailer. Standard when ordered in combination with FH Hydraulic Dock Leveler or optioned with TL85 Hydraulic Vehicle Restraint to accommodate future dock installation.



### ML10 Automatically Actuated Communication Lights System

This interlocked system includes exterior dual driver warning signs with mirror image and high visibility LED lights. Inside NEMA4X control station with selector switch includes red and green indicator lights.

### Bumpers, Wheel Chocks & Dock Lights

A complete line of products designed for the loading dock area to protect dock equipment, building wall, cargo and personnel.

### Extension Plate

Restraint extensions available in a wide range of sizes to suit Edge-of-Dock Levelers and Stepped-Out Pits.

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