

APS 2000®

Vehicle Restraint



Figure 1: APS 2000 features rotating hook engagements

The APS 2000® is a superior impact-style restraint with a rotating hook developed specifically to reduce the occurrence of accidents at the dock. The APS 2000 combines an advanced LED communication system with a low-profile restraint carriage.



Figure 2: PLC-based control panel with red/green composite light

Design Highlights

- Low-profile, 9" carriage has a service range of 9"-25" off grade
- Automatic re-engagement
- Watertight electrical connectors
- Restraint positioned automatically by backing trailer
- Automatic interior/exterior 24V LED light communication and sign communication
- Standard keyed bypass/override switch with audible alarm
- Programmable Logic Controller (PLC)
- Audible alarm (if no contact with RIG)
- This product carries a (2) year limited warranty with APS Resource

Technical Specifications

Operation	Rotating hook engages the ICC bar keeping trailers secured to loading dock
Industry Standards	Patented IP67S-rated motor with electro-mechanical brake
	Captures NHTSA regulation rear impact guards
Construction Material	Zinc-plated/yellow dichromate finish for superior corrosion resistance

Project
Information

Job Name _____
 Address _____
 General Contractor _____
 Distributor _____
 Model _____
 Quantity _____

Certified for
Construction

By _____
 Company _____
 Address _____
 Date _____



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GENERAL

APS 2000® Vehicle restraint is designed to secure a tractor trailer by engaging the rear impact guard. The spring loaded housing is automatically positioned upon contact with the rear impact guard of a backing trailer. The rotating hook mechanism activated by a pushbutton control panel mounted inside the dock. Unit is supplied with red and green interior and exterior flashing LED lights for clear communication.

CONSTRUCTION

The 9" low-profile, fully enclosed, zinc-plated/yellow dichromate housing is constructed of 5/16" steel and is designed to withstand impact from backing trailers. Housing protects all components from damage and the elements. A standard impact extension bar provides a service range of 9" - 25".

ELECTRICAL

Solid state control panel features a programmable logic controller (PLC) and "real time" diagnostic capability, industrial quality pushbuttons, integral 24V LED red and green lights and printed operational instructions. Electrical components and wiring are UL approved. Requires 120V single phase; the standard panel requires two full load amps. Installation by others.

MOTOR

1/10 HP, 115V, IP67S-rated TENV motor with automatic thermal overload and internal brake.

OPERATION

As the trailer backs in the loading dock, the rear impact guard contacts the restraint housing and positions it down toward the ground. Once the trailer is backed against the bumpers and fully in position, the dock attendant depresses the "ENGAGE" button, causing the rotating hook to engage the rear impact guard and secure the trailer to the dock. The hook mechanism can withstand in excess of 32,000 lbs of pullout force. The APS 2000 maintains constant contact with the rear impact guard and automatically adjusts to the vertical motion of the trailer to ensure positive engagement at all times. A standard audible alarm warns the dock attendant when the rear impact guard has not been properly secured. Once loading/unloading is complete, the dock attendant depresses the "RELEASE" button to disengage the restraint.

INSTALLATION

The APS 2000 can be mounted to an optional steel plate that is embedded in the dock face or by 15 anchor bolts (included) plus 16" of weld to the dock curb angle. No modification to the dock leveler is necessary. Installation by others.

WARRANTY

This product carries a (2) one year limited warranty with APS Resource.



Figure 3: APS 2000 installation

Available Options

- ☐ Cantilever Bracket _____ Projection
- ☐ Pit Floor Mounting Plate
- ☐ Embed Mounting Plate (New Construction)
- ☐ Brick Bracket (Masonry Block Wall)
- ☐ S.W.A.T. (Secondary Warning Alert Technology)
- ☐ Other