



Automated Vehicle Restraint System

Model AUTOBLOCK

Automated vehicle restraint system designed to prevent accidental vehicle drive-away

The AUTOBLOCK automated vehicle restraint system designed to prevent accidental vehicle drive-away and trailer creep during loading and unloading operations. The system provides positive restraint of the vehicle rear wheel and integrates with loading bay doors, dock levellers and traffic light controls to ensure a safe operating sequence.

Operation

With the dock leveller parked, the loading bay door closed and the external vehicle indicator displaying green, the vehicle may reverse onto the loading bay.

The warehouse operator initiates the locking sequence via the AUTOBLOCK control panel. An audible warning alarm sounds and the external indicator changes to flashing red while the restraint arm is in motion.

The restraint arm automatically positions against the front face of the vehicle's rear wheel and applies a positive restraining force to prevent unintended vehicle movement away from the loading bay.

Once the wheel has been successfully secured, the external indicator changes from flashing red to steady red and the internal dock status indicator changes to green.

The control interlock is then released, permitting operation of the loading bay door and dock leveller and allowing loading or unloading activities to commence

Upon completion of loading operations, the dock leveller shall be returned to its parked position, and the loading bay door fully closed.

The warehouse operator initiates the release sequence via the AUTOBLOCK control panel. An audible warning alarm sounds and the external indicator flashes red while the restraint arm returns to its parked position.

Upon completion of the release cycle, the external vehicle indicator changes to green, confirming that the vehicle may safely depart from the loading bay.



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Technical Specification

Type: Automated wheel-engaging vehicle restraint system

Application: Prevention of premature vehicle departure and trailer creep

Integration: Suitable for new-build and existing loading bay installations

Interlocking: Configurable to suit project-specific operational requirements

Overall dimensions: 4800 mm (L) × 1115 mm (W) × 535 mm (H)

Control voltage: 24 V DC

Enclosure protection rating: IP65

Installation: Mounted and fixed to a suitably designed reinforced concrete foundation in accordance with manufacturer's requirements

Control Panel

- Power-on indicator
- Lock push button with status indication
- Unlock push button with status indication
- Reset button
- Maintenance key switch
- Main isolator switch
- Emergency stop button

Safety Features

- Audible movement alarm
- External vehicle status indication
- Internal dock status indication
- Door and dock leveller interlocking
- Controlled locking and release sequence
- Emergency stop facility



This is a standard ARMO partner product. We can also design and manufacture bespoke equipment that meets your specific needs.

Armo has been manufacturing high quality loading bay and lifting table solutions since 1972. For further technical or pricing information, please contact our head office:

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