

PRODUCT CATALOGUE

FLEXIBLE POLYMER SAFETY BARRIERS

www.aotons.com

Management Office 2025

INTRODUCTION

Armorflex® Polymer Safety Barrier

Aotons Armorflex polymer safety barrier is designed to creating safer workplace, by providing every workplace protection for peoples safe and saves lives. Our goal is no more injuries, no more fatalities from accidents in public spaces or workplaces .

We owns advanced polymer technology that our material has recovery ability and memory, can absorb, delay and eliminate impact energy, can rebound to it's original shape after impact. Aotons project team takes on the most complex challenges and push the limits of what's possible to create solutions fit the safety for People , Assets , Buildings , Racking System.

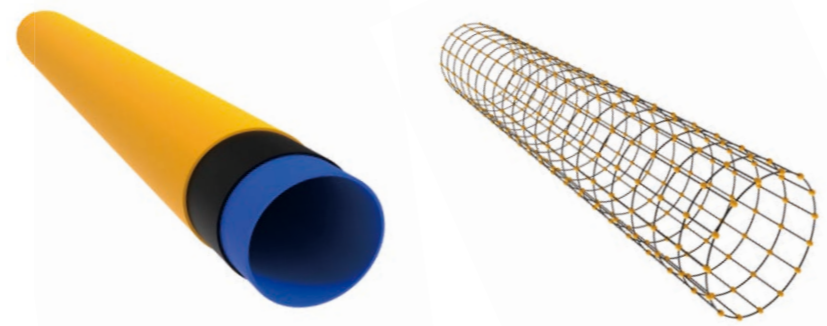
Our products have been tested by the TÜV Rheinland unit. All of Aotons barrier strength tests are carried out under the supervision and control of TÜV Rheinland.



Innovative three-layered material.

- 1.Core strength from within .
- 2.Central zone for absorbing impact .
- 3.UV-resistant outer color layer.

Molecular reorientation in the manufacturing process results in a distinctive built-in memory, allowing the barrier to fully recover after impacts.



Advantage

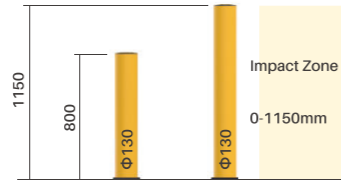
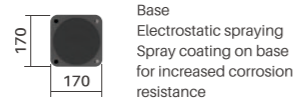
| | | | |
|--|---|---|---|
|  Durable |  Strong wear resistance |  Strong weather resistance |  Safe and non-toxic |
|  Strong chemical resistance |  No painting required |  Recoverability and Memorability |  Modular combination |

01.BOLLARD



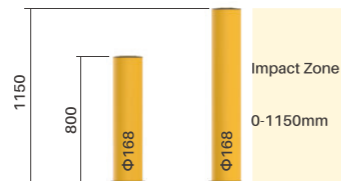
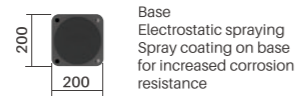
MODEL BO130

| | |
|--------|---|
| Height | 800/1150mm |
| Fixing | M10 Included |
| Impact | 3000 J 1.5tons Forklift hit at 7.2km/h |
| Color | Ral 1003, Signal Yellow |
| Temp | -5 ~ 50° |



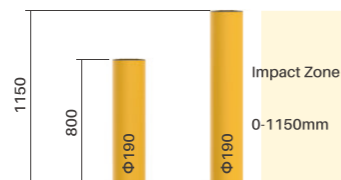
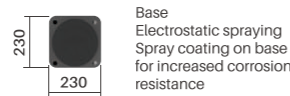
MODEL BO168

| | |
|--------|---|
| Height | 800/1150mm |
| Fixing | M10 Included |
| Impact | 3600 J 4tons Forklift hit at 4.8km/h |
| Color | Ral 1003, Signal Yellow |
| Temp | -5 ~ 50° |



MODEL BO190

| | |
|--------|---|
| Height | 800/1150mm |
| Fixing | M12 Included |
| Impact | 6900 J 6tons Forklift hit at 5.5km/h |
| Color | Ral 1003, Signal Yellow |
| Temp | -5 ~ 50° |



Aotons safety bollard designed to protect various industrial places, can reliable protection for strategic, vulnerable locations such as entrance gates, access ways, corners, machinery, structural columns, electrical switchgear and building facades. Strong and durable, the yellow color is highly visible to driver's attention to safe driving. The type of bollard is matched to the vulnerability of the location, and to the weight and speed of moving vehicles.

APPLICATIONS

Gates, access ways, corners, pipe, electric box, protection of machinery



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift

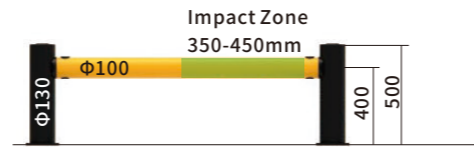


02.SINGLE RAIL FLEXIBLE SAFETY BARRIER



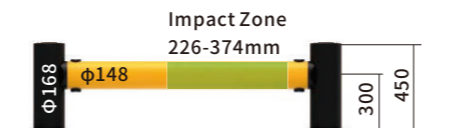
Model: SR100

| | |
|--------|--|
| Height | 300/500mm |
| Fixing | M10 Included |
| Impact | 2700 J 1.5tons Forklift hit at 6.8km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



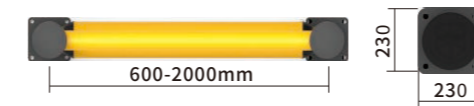
Model: SR148

| | |
|--------|--|
| Height | 450mm |
| Fixing | M10 Included |
| Impact | 10200 J 4tons Forklift hit at 8.1km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Model: SR190

| | |
|--------|--|
| Height | 450mm |
| Fixing | M12 Included |
| Impact | 15100 J 6tons Forklift hit at 8km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Aotons Single Rail Flexible Safety Barrier

Designed to protect various industrial places, can reliable protection for strategic, vulnerable locations such as storage racks and machinery, electric box, conveyer, walls, corners, and building facades.Strong and durable, the yellow color is highly visible to driver's attention to safe driving.

APPLICATIONS

Storage racks and machinery, electric box, conveyer, walls, corners.



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift

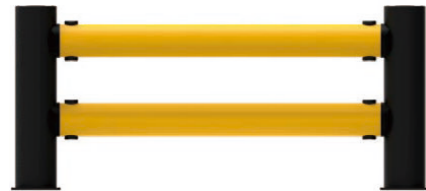
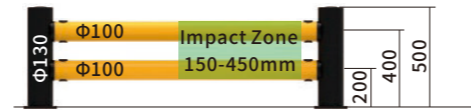


03.DOUBLE RAIL FLEXIBLE SAFETY BARRIER



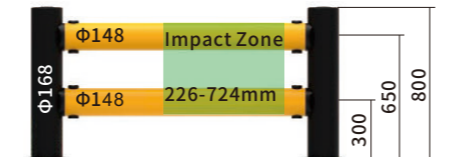
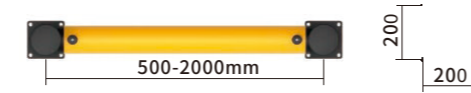
Model: DR100

| | |
|--------|--|
| Height | 500mm |
| Fixing | M10 Included |
| Impact | 4550 J 3tons Forklift hit at 6.2km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



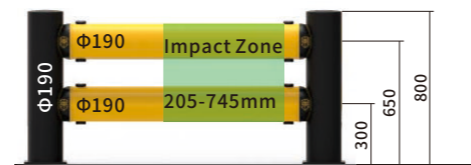
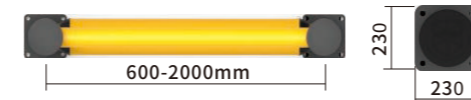
Model: DR148

| | |
|--------|--|
| Height | 800mm |
| Fixing | M10 Included |
| Impact | 13500 J 6tons Forklift hit at 7.6km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Model: DR190

| | |
|--------|--|
| Height | 800mm |
| Fixing | M12 Included |
| Impact | 15100 J 6tons Forklift hit at 8km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Aotons Double Rail Flexible Safety Barrier

Designed to protect various industrial places, can reliable protection for strategic, vulnerable locations such as front of racks and machinery, electric box, walls, corners, and building facades. They are ideal for areas exposed to damage from forklifts and industrial trucks. Strong and durable, the yellow color is highly visible to driver's attention to safe driving.

APPLICATIONS

Front of racks and machinery, electric box, walls, corners, and building facades.



1.Pallet Truck



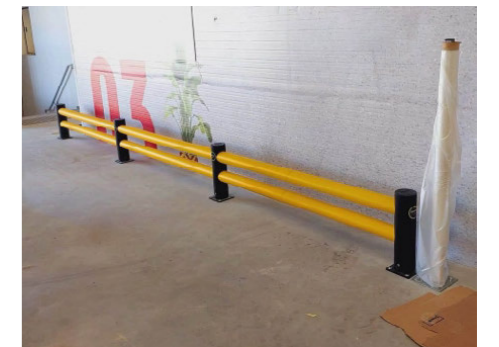
2.Electric Stacker



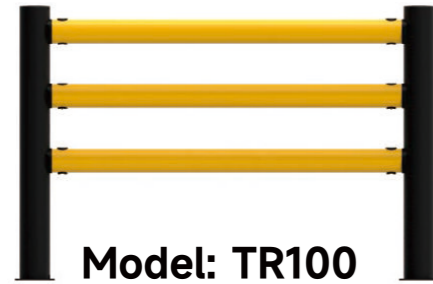
3.Reach Truck



4.Forklift

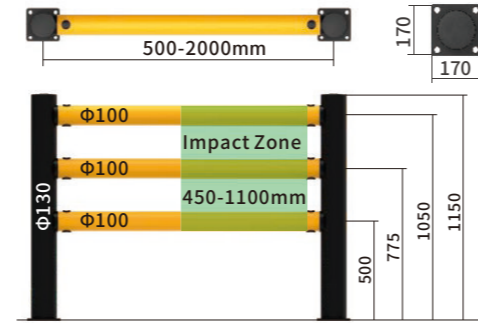


04.THREE RAIL PEDESTRIAN BARRIER



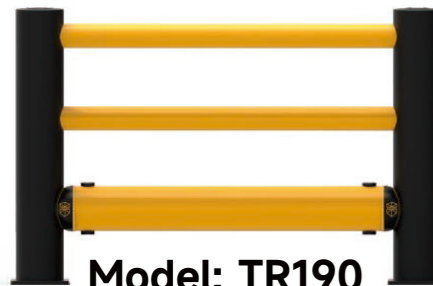
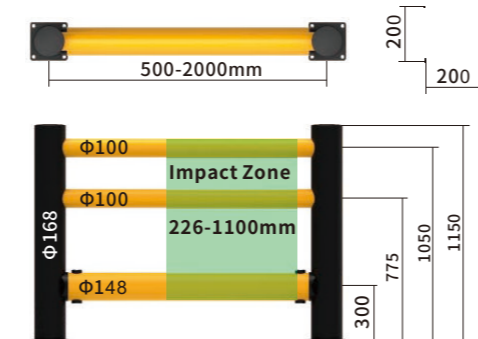
Model: TR100

| | |
|--------|--|
| Height | 1150mm |
| Fixing | M10 Included |
| Impact | 5800 J 3tons Forklift hit at 7km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



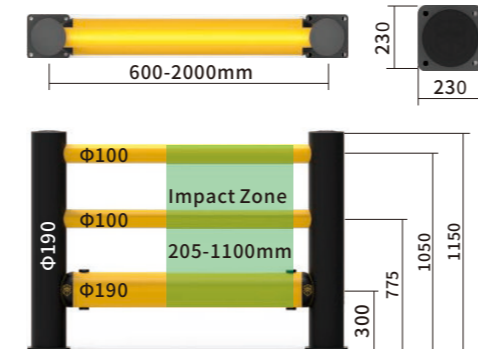
Model: TR148

| | |
|--------|--|
| Height | 1150mm |
| Fixing | M10 Included |
| Impact | 10200 J 4tons Forklift hit at 8.1km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Model: TR190

| | |
|--------|--|
| Height | 1150mm |
| Fixing | M10 Included |
| Impact | 15100 J 6tons Forklift hit at 8km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Aotons Three Rail Pedestrian Barrier

Designed to protect the pedestrians . Define walk ways for people in reception or office , guides pedestrians and driver, with organize operations and prevent pedestrians from accidently into vehicle routes and unsafe area.

APPLICATIONS

Walk way , access way , office , racking system .



1.People



2.Pallet Truck



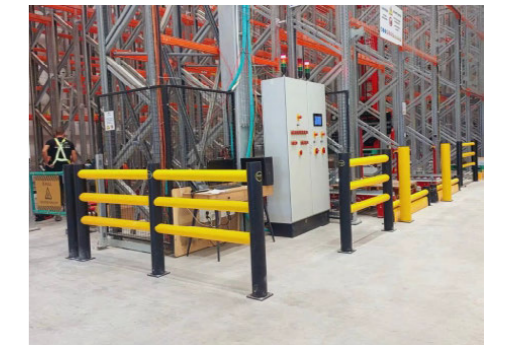
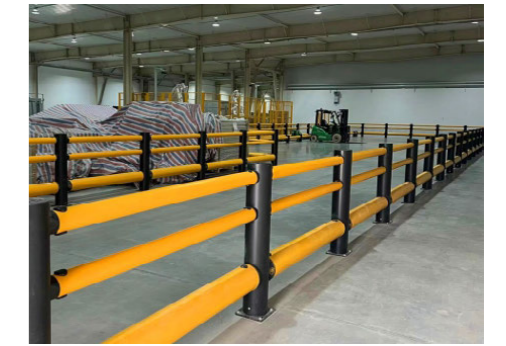
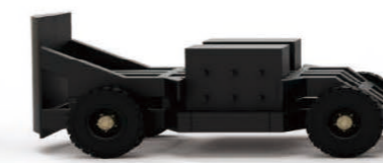
3.Electric Stacker



4.Reach Truck



5.Forklift

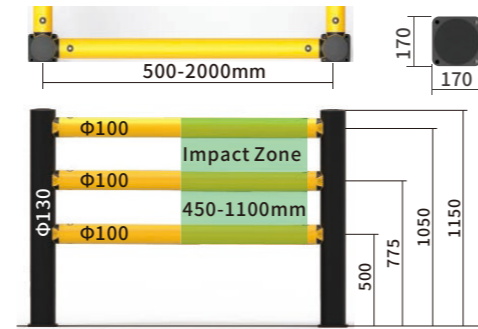


05.COLUMN PROTECTION BARRIER



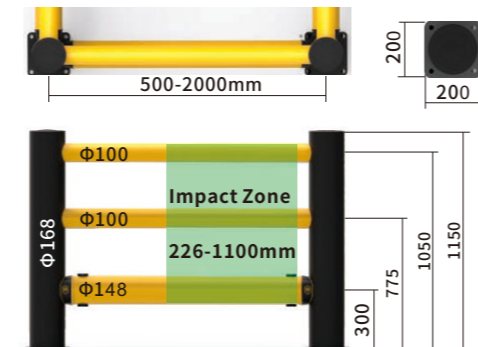
Model: CTR100

| | |
|--------|--|
| Height | 1150mm |
| Fixing | M10 Included |
| Impact | 5800 J 3tons Forklift hit at 7km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



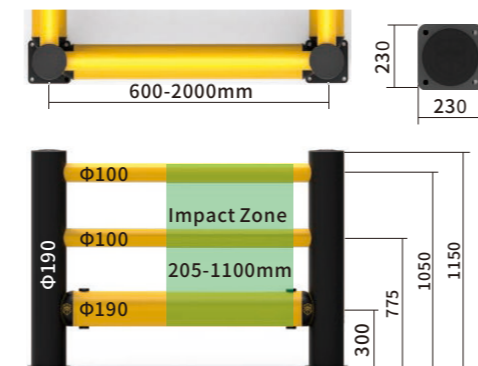
Model: CTR148

| | |
|--------|--|
| Height | 1150mm |
| Fixing | M10 Included |
| Impact | 10200 J 4tons Forklift hit at 8.1km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Model: CTR190

| | |
|--------|--|
| Height | 1150mm |
| Fixing | M10 Included |
| Impact | 15100 J 6tons Forklift hit at 8km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |



Aotons Column Protection Barrier

Designed to protect columns, building supports and any size and shape, provides 360° protection for columns, if without protection may cause serious structural or infrastructure damage. Column protection can be installed at different heights and rails, product dimensions also can be customized depend on site request.

APPLICATIONS

Columns and infrastructure .



1.Pallet Truck



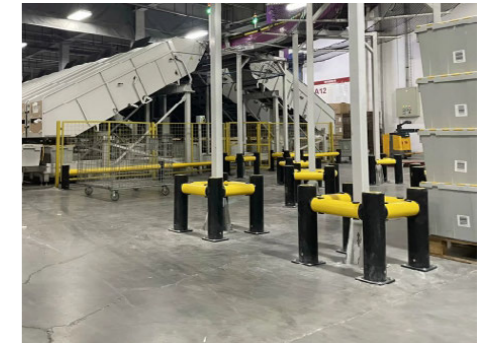
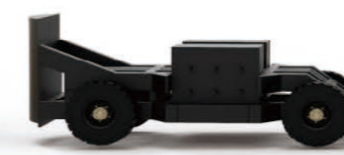
2.Electric Stacker



3.Reach Truck



4.Forklift

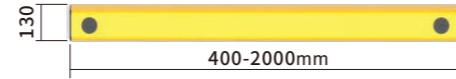


06.GROUND PROTECTION BARRIER



Model: GSR190

| | |
|--------|---------------------------------------|
| Height | 190mm |
| Fixing | M20/M16 Included |
| Impact | 5800 J 3tons Forklift hit at 7km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow |



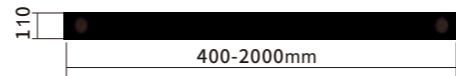
Aotons Ground Protection Barrier

Designed to protect against vehicle forks .Protect walls, AGV area, charging station, front of rack, bulk pallet area , loading bay ,storage areas and critical structures and equipment at ground level, also create pallet stops from stored goods .



Model: GSR110

| | |
|--------|---------------------------------------|
| Height | 110mm |
| Fixing | M20/M16 Included |
| Impact | 5800 J 3tons Forklift hit at 7km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow |



APPLICATIONS

Front of racks and machinery, electric box, walls, corners, and building facades .



1.Pallet Truck



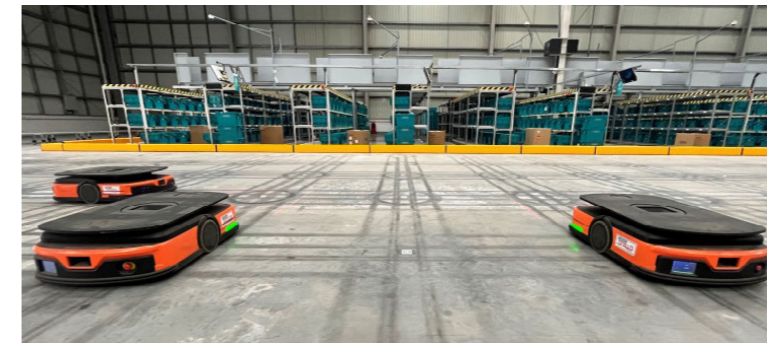
2.Electric Stacker



3.Reach Truck



4.Forklift

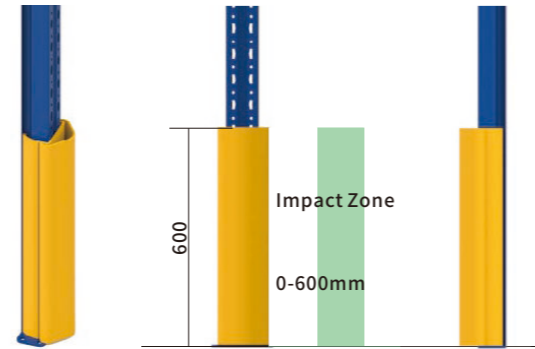


07.IMPACT RACKSHIELD



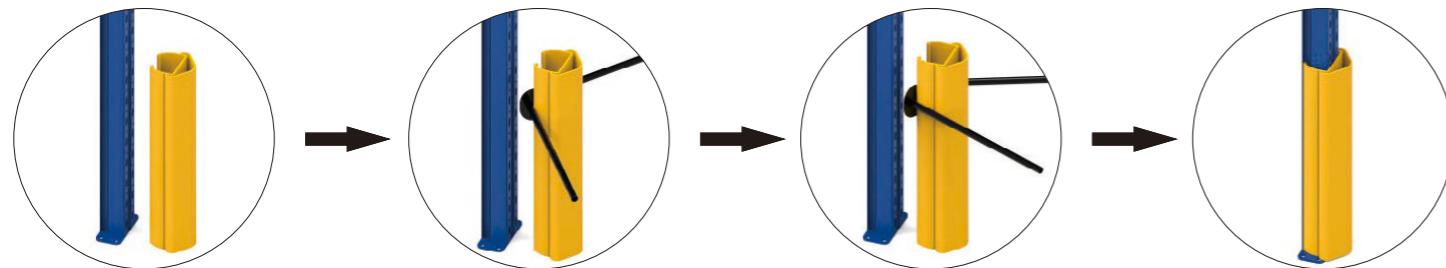
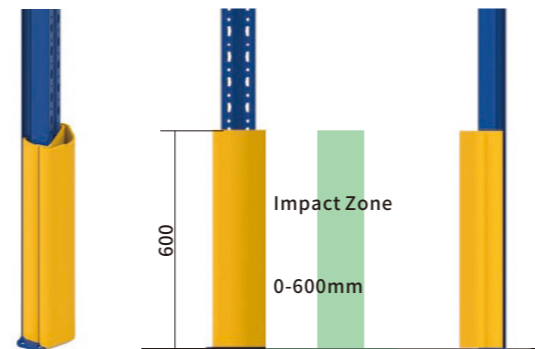
Model: RG142
(Upright Wide: 80-100mm)

| | |
|--------|---|
| Height | 600mm |
| Fixing | No Bolt Needed |
| Impact | 1000 J 2.5tons Forklift hit at 3.2km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow Customizable Logo |
| Remark | Suitable racking upright width: 80mm~100mm |



Model: RG142
(Upright Wide: 100-120mm)

| | |
|--------|---|
| Height | 600mm |
| Fixing | No Bolt Needed |
| Impact | 1000 J 2.5tons Forklift hit at 3.2km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow Customizable Logo |
| Remark | Suitable racking upright width: 100mm~120mm |



Aotons Impact Rackshield

Designed to protect warehouse racks against damage caused by forklifts or pallets with goods, they prevent damage to the shelf structure, full range of polymer material protect racking system.

APPLICATIONS

Racking System.



1.Pallet Truck



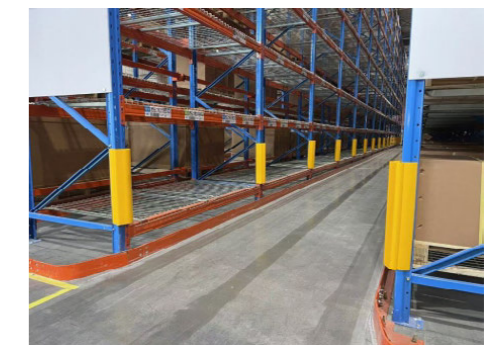
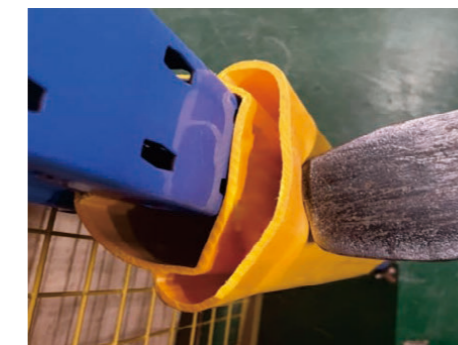
2.Electric Stacker



3.Reach Truck



4.Forklift



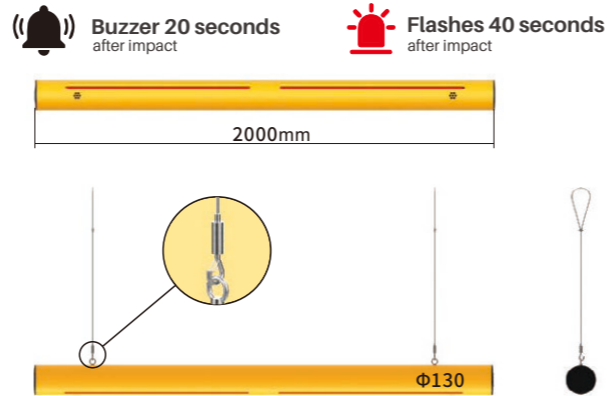
08.HEIGHT ALERT BAR

Height Alert Bar is designed to safeguard elevated assets from vehicle - induced damage. When impacted by a vehicle, it emits clear audible and visual alarms, alerting drivers to take measures and avoid collisions. Easy to install, it effectively protects critical facilities such as industrial doors, overhead conveyor lines, and elevated pipes.



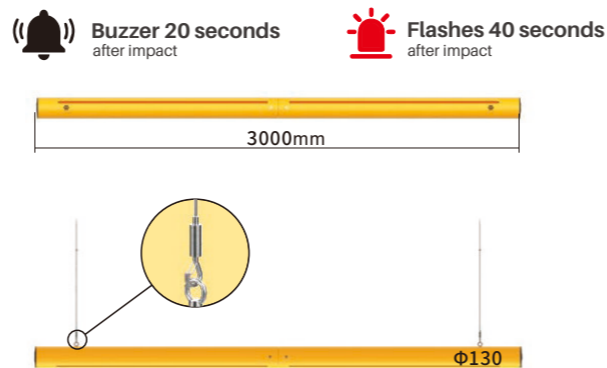
Model: LDSR100
Length: 2000mm

| | |
|-------------------|--|
| Diameter | 130mm |
| Number of buzzers | 2 Sets |
| Number of LED | 2 LED light strips |
| Color of LED | Red |
| Place of use | Indoor environment |
| Alarm decibel | ≥ 90dB |
| Color | Ral 1003, Signal Yellow |
| Battery count | 8 pieces of AA batteries |
| Temperature Range | -20 ~ 50°C (Depends on battery performance) |



Model: LDSR100
Length: 3000mm

| | |
|-------------------|--|
| Diameter | 130mm |
| Number of buzzers | 2 Sets |
| Number of LED | 2 LED light strips |
| Color of LED | Red |
| Place of use | Indoor environment |
| Alarm decibel | ≥ 90dB |
| Color | Ral 1003, Signal Yellow |
| Battery count | 8 pieces of AA batteries |
| Temperature Range | -20 ~ 50°C (Depends on battery performance) |



PRODUCT FEATURES

- AA battery-powered, easy and quick to replace.
- Detection units at both ends, no missed alarms.
- Audible and visual alarm, effectively reminds drivers.
- Custom program filters environmental interference, no false alarms.
- Suspended installation with self-locking height adjustment, easy to install.



APPLICATIONS

Industrial door, False ceiling above the corridor,
Overhead conveyor line



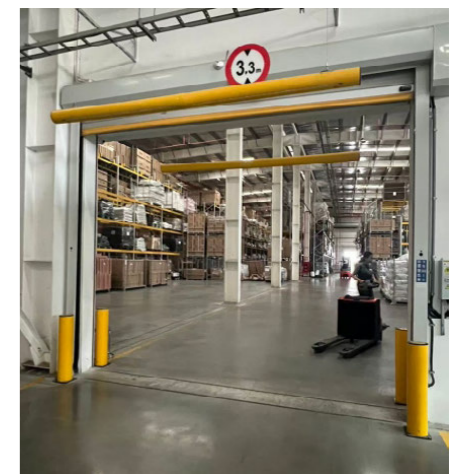
1. Electric Stacker



2. Reach Truck



3. Forklift



09.LOADING BAY PROTECTOR



Model: PSR168

| | |
|--------|--|
| Height | 600mm |
| Post | Φ168mm |
| Rail | Φ168mm |
| Fixing | M10 Included |
| Impact | 10000 J 6tons Forklift hit at 6.5km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 9005, Jet Black |

Aotons Loading Bay Protection

Designed to protect employees or forklifts from falling down when loading goods into containers, keeping your employees safe and loading bays free from damage.

APPLICATIONS

Loading Bay.



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift

Product Demonstration

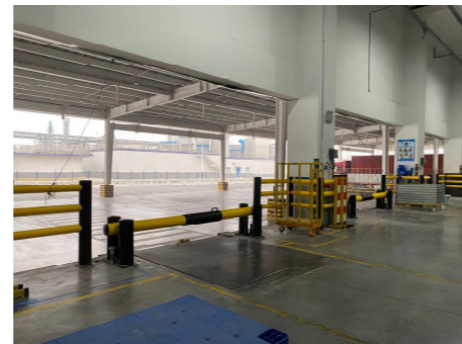
Easy to open and close.



Closed State



Open State



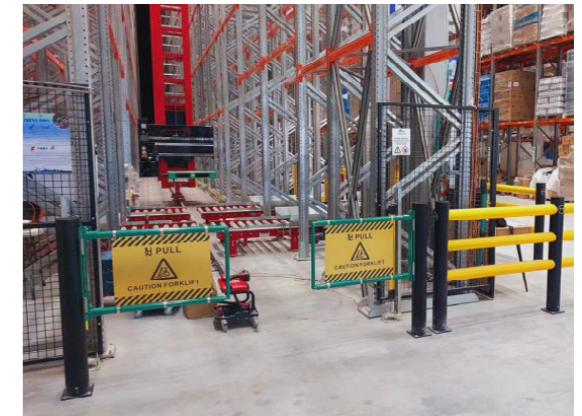
10.SWING GATE

Aotons Swing Gate provides safe access to the safety area floor.

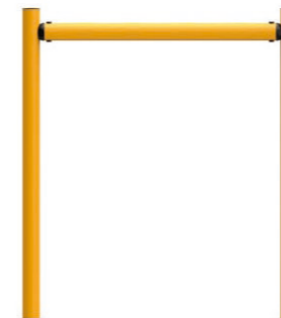


Model: SWG

| | |
|--------|---|
| Height | 1150mm |
| Post | Φ130mm |
| Fixing | M10 Included |
| Length | 800~1000mm |
| Temp | -5 ~ 50° |
| Color | Gate frame Ral 6024, Traffic Green POST Ral 9005, Jet Black The Pattern Is Customizable |



11.HEIGHT RESTRICTOR



Model: LDSR148

| | |
|--------|--|
| Height | Max 5200mm |
| Length | Max 6000mm |
| Post | Φ190mm |
| Rail | Φ148mm |
| Fixing | M10 Included |
| Impact | 5400 J 6tons Forklift hit at 4.8km/h |
| Temp | -5 ~ 50° |
| Color | RAIL Ral 1003, Signal Yellow POST Ral 1003, Signal Yellow |

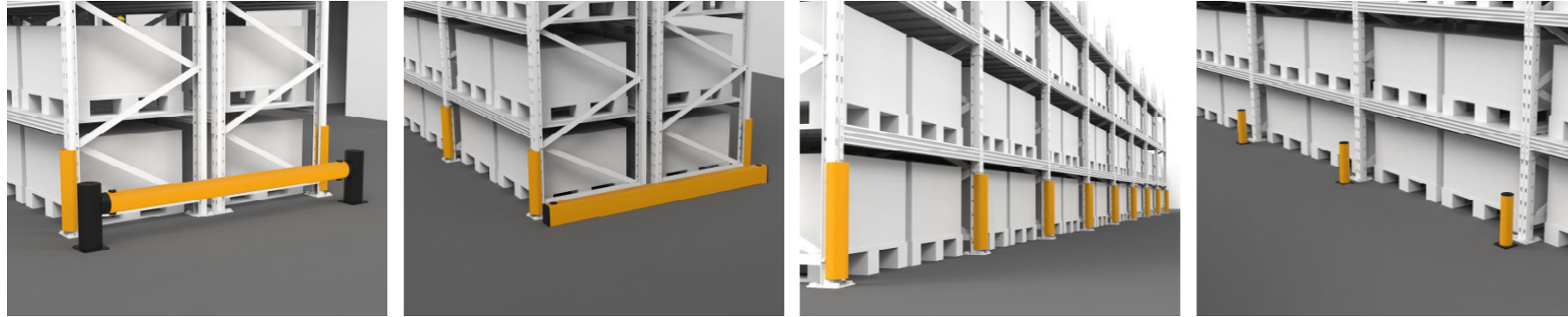
Aotons Height Restrictor

Designed to offer functional protection for exit gates and other industrial doors. They can be adapted to any door and passageway, protecting against accidental damage from moving vehicles hitting door frames on both sides and height collisions. They also prevent vehicles and loads from impacting doorway edges.



Case Presentation

Racking System Protection



The risks to warehouse racking include:

- Vehicles striking racking while loading/unloading stock
- Forklift forks puncturing stock or denting racking
- Vehicles catching rack ends while turning into a racking aisle
- Minor scrapes and bumps which weaken racking over time

When protecting racking system, need to know risks you face at your facility, also the regulations surrounding racking and the different types of protection available. Choose Aotons various racking system protection solution is perfect for racking system.



Model: RG142



Model: SR148



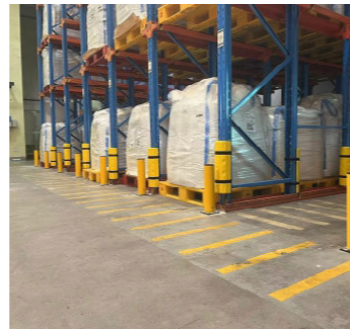
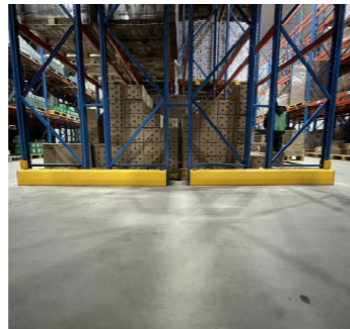
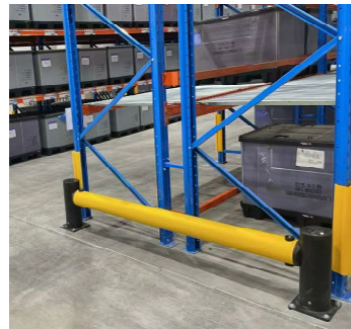
Model: GSR190



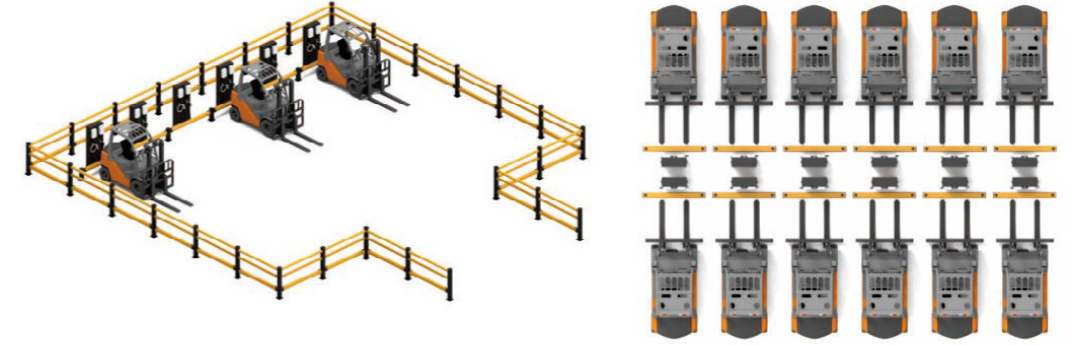
Model: BO190



Model: DR148/100



Charging Station Protection



With the increase in electric forklifts comes the increase in forklift battery charging stations. Damage to these chargers can cause operational delays, increase maintenance costs, and pose a risk to employee safety. The company must protect their charging equipment, forklift, employees.



Model: TR148



Model: SR148



Model: GSR190

