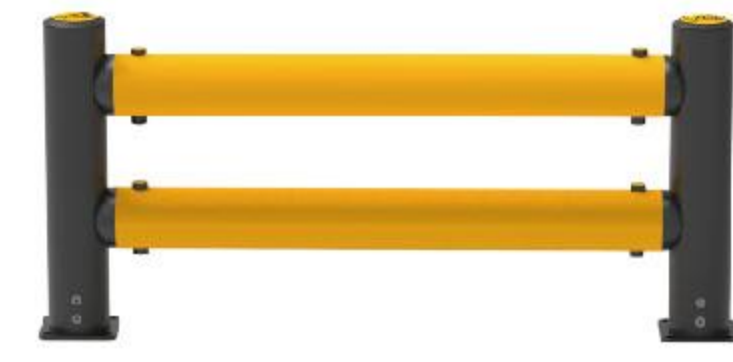


Contents

Shelf Protection Solution



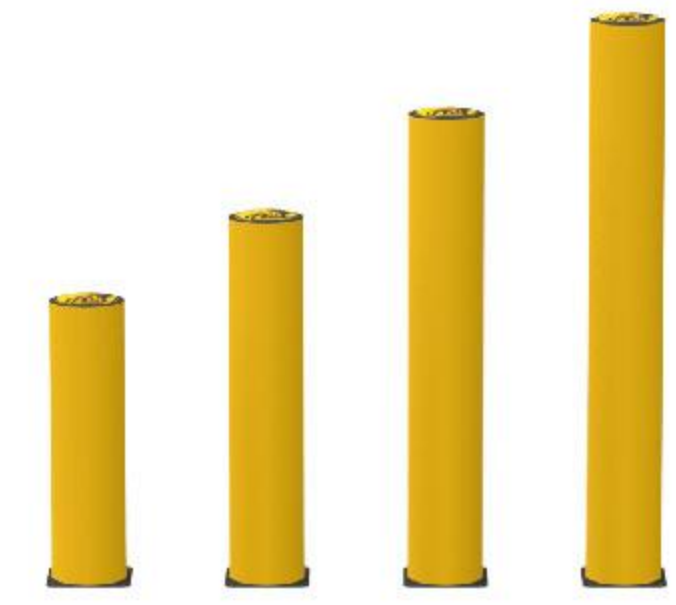
Monorail Barrier



Double Barrier



Pedestrian Barrier



Bollard



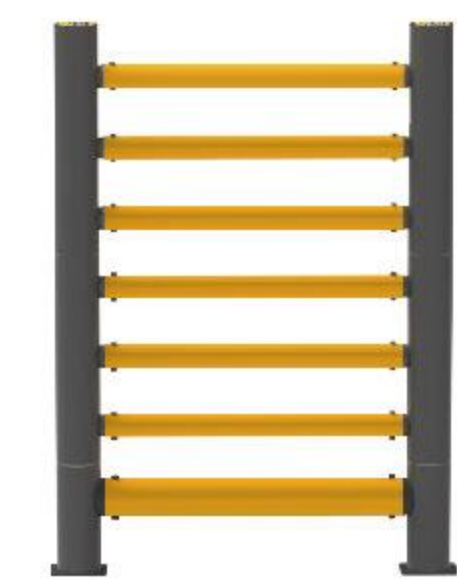
Column Barrier



Rack Protector



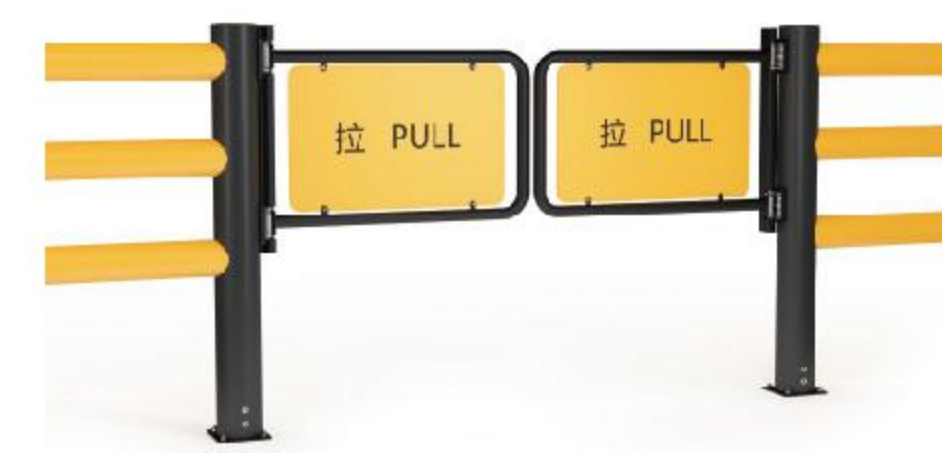
Fork Barrier



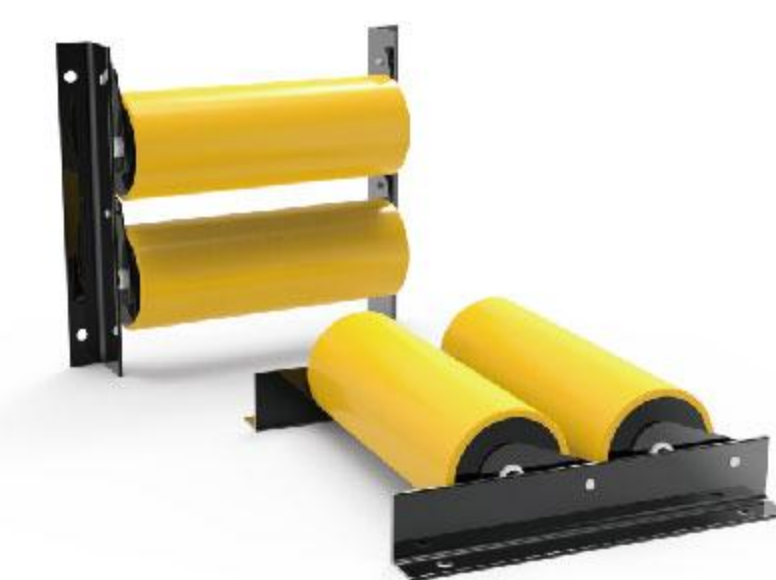
High Barrier



High Restrictor



Safe Door



Platform Bumper



Alarm Bar



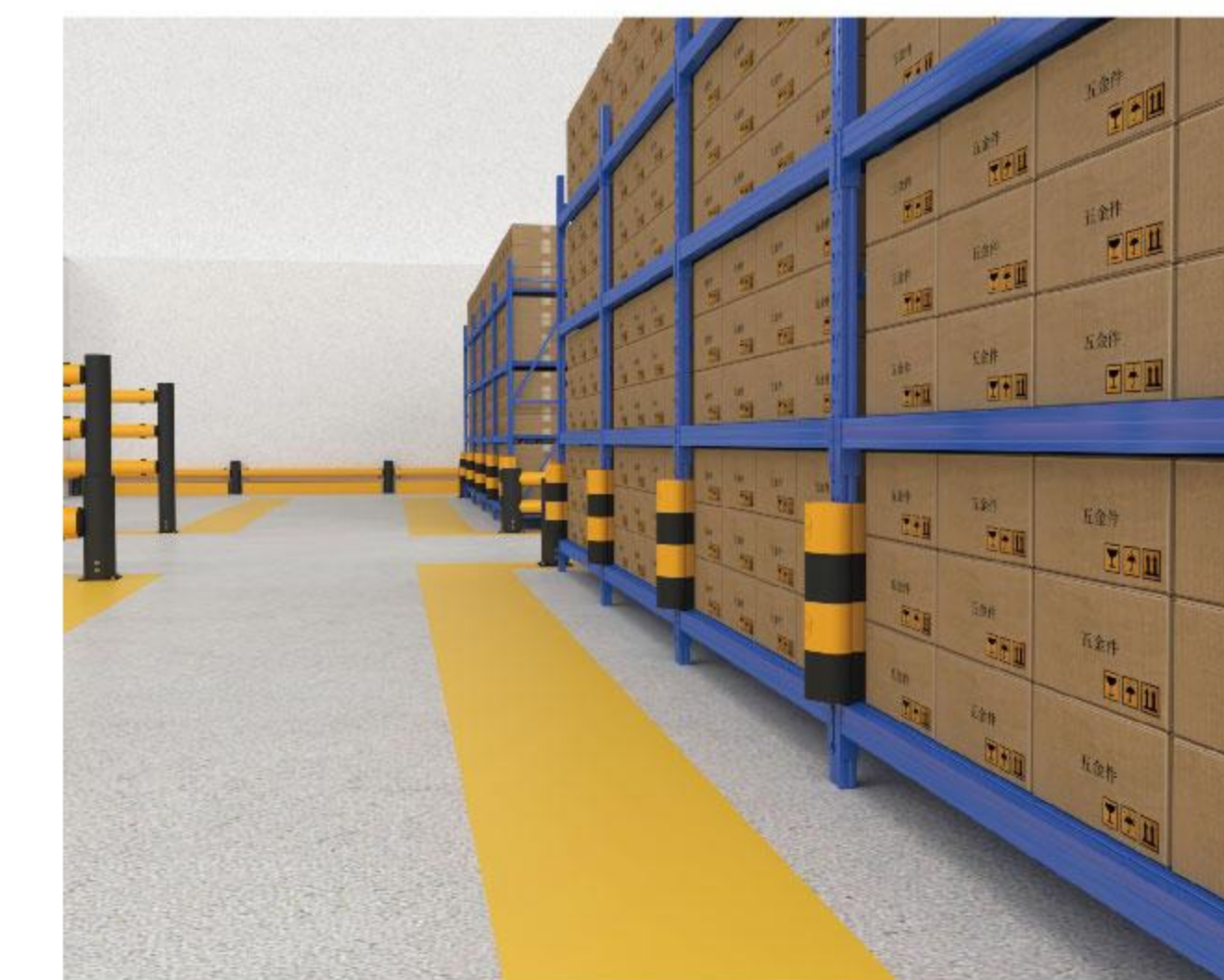
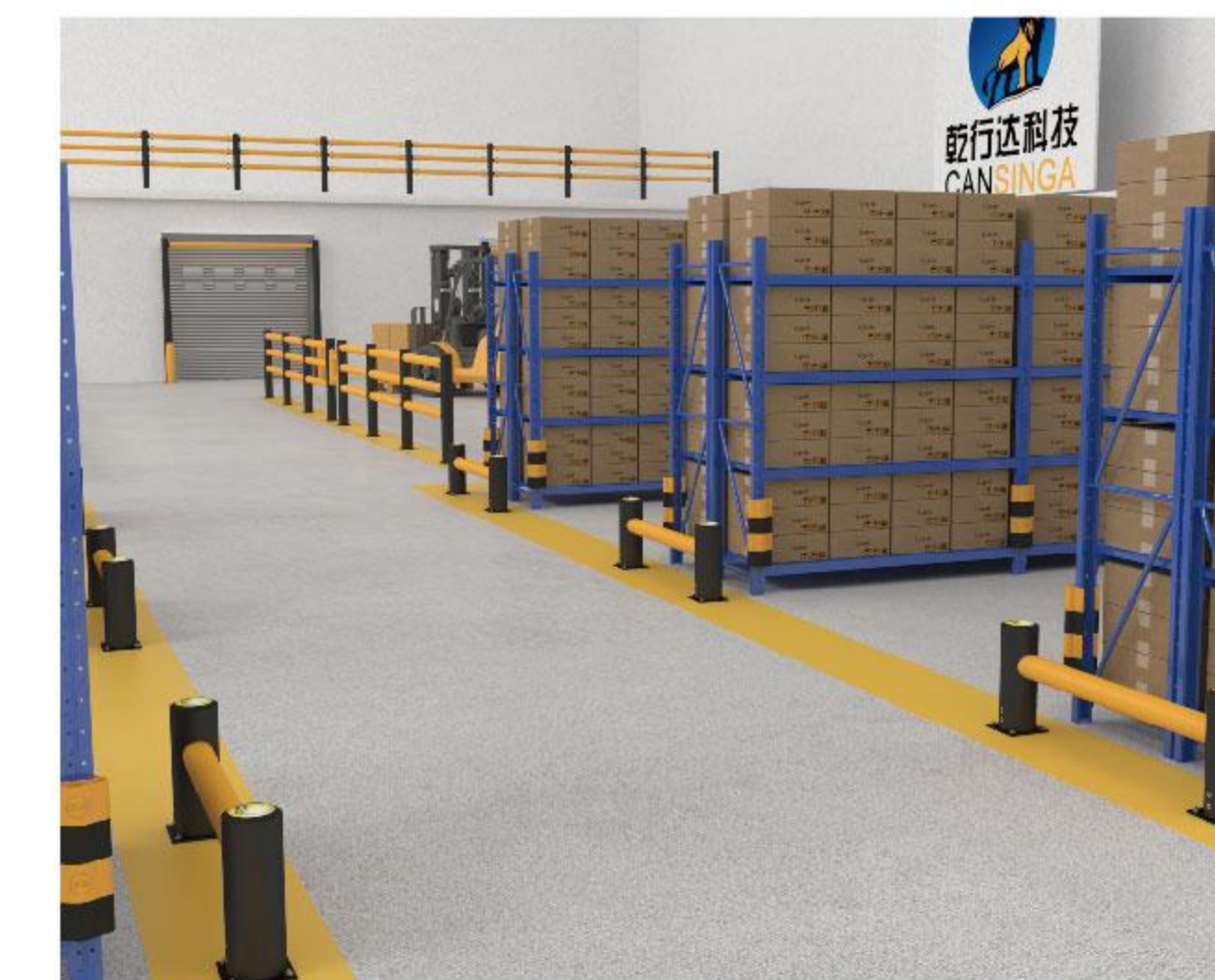
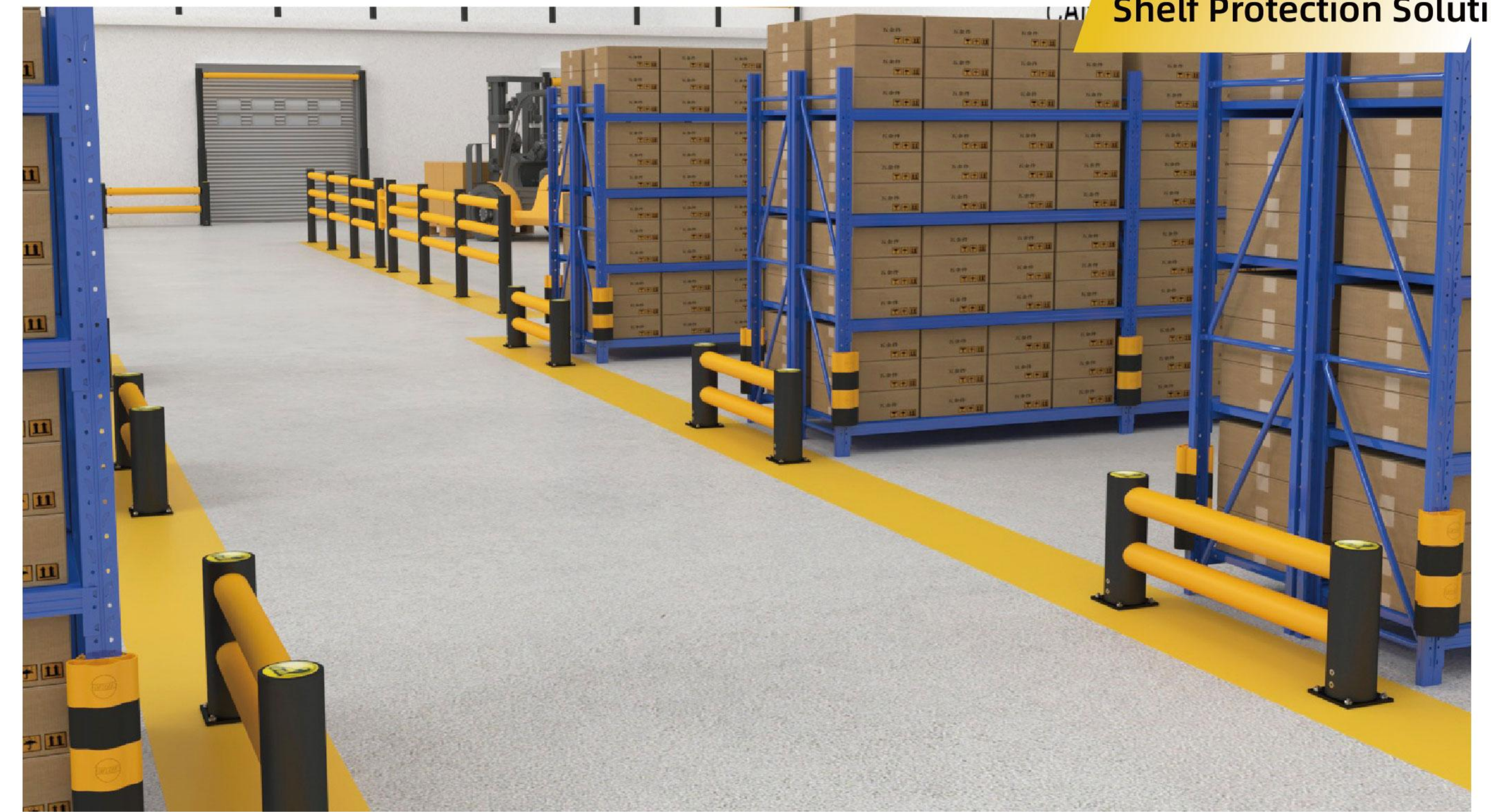
Anti-collision Edge



Collision Warning System



Warehouse Positioning System



Wonderbar
PP-Element



Monorail Barrier MB160



Monorail Barrier MB160-100E



Fork Barrier FB180



Double Barrier DB160-100



Rack Protector RP400

Corridor - Wall Protection Solution



Pedestrian Barrier PB100E



Double Barrier DB100E



Monorail Barrier MB100E



Fork Barrier FB180

Logistics Gate Protection Solution



Wunderbar
Pflanzent



Bollard BO II-140



High Restrictor HR1-160



Platform Bumper



Alarm Bar AB-01

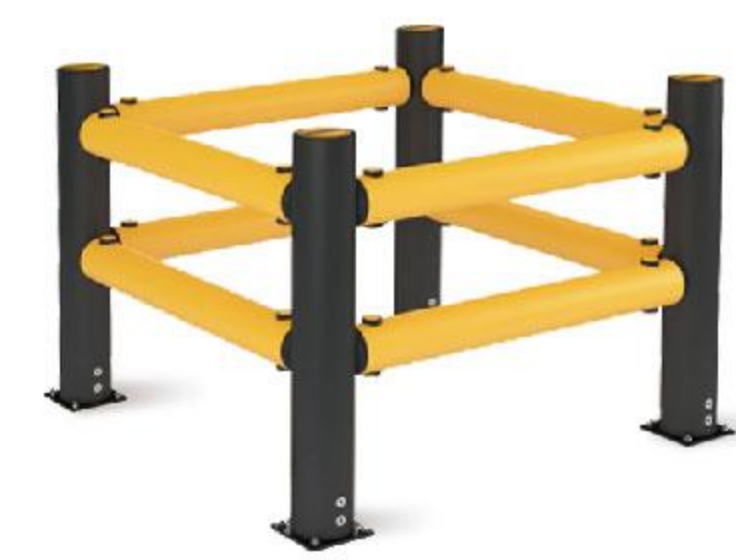


Bollard BO160

Pillar - Equipment Protection Solution



Column Barrier
CB3-100



Column Barrier
CB2-100



Column Barrier
CB1-100



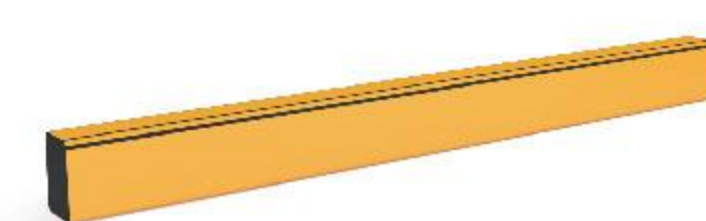
Pedestrian Barrier
PB100E



Double Barrier DB100E



Monorail Barrier MB100E



Fork Barrier FB180



Double Barrier DB100E



Monorail Barrier MB100E

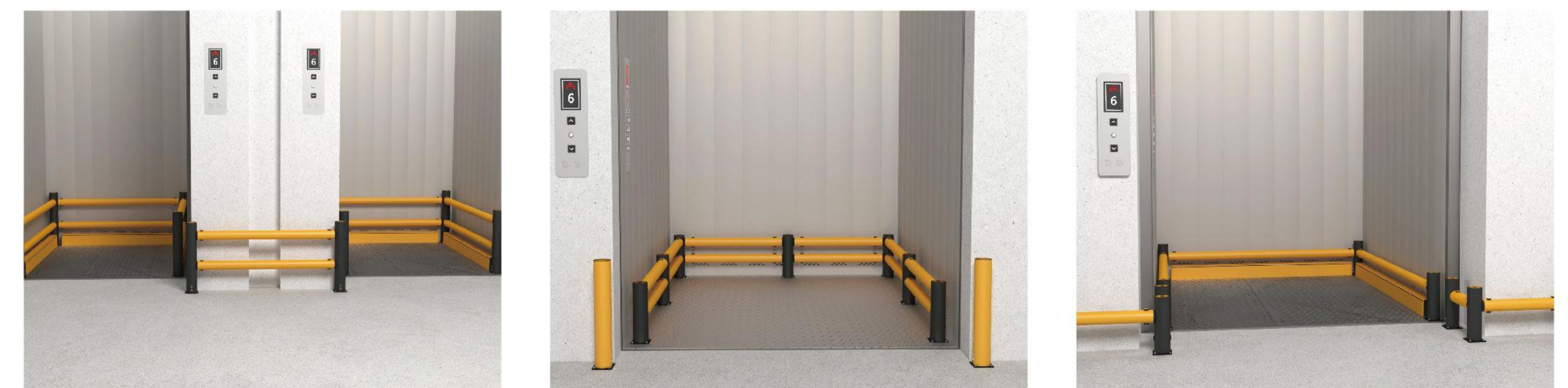


Fork Barrier FB180



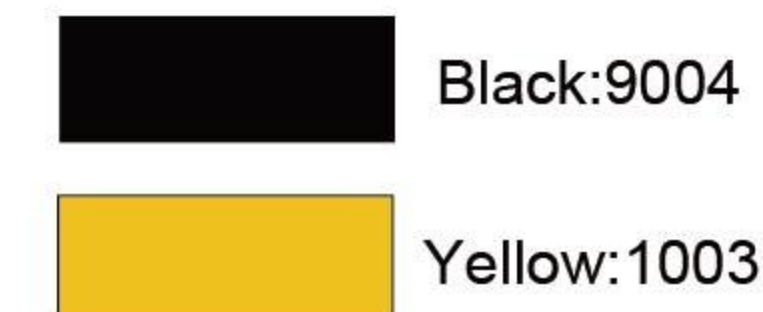
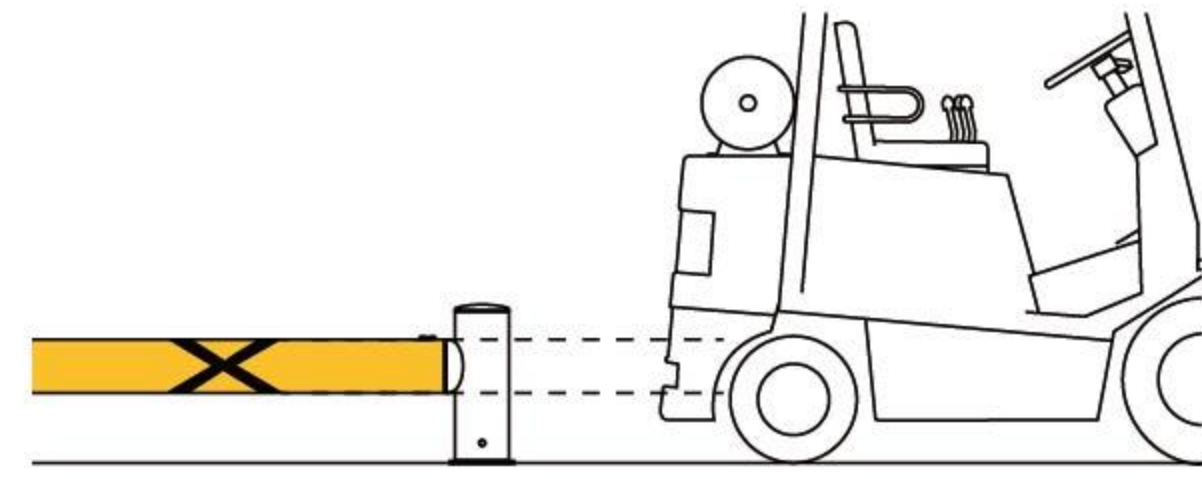
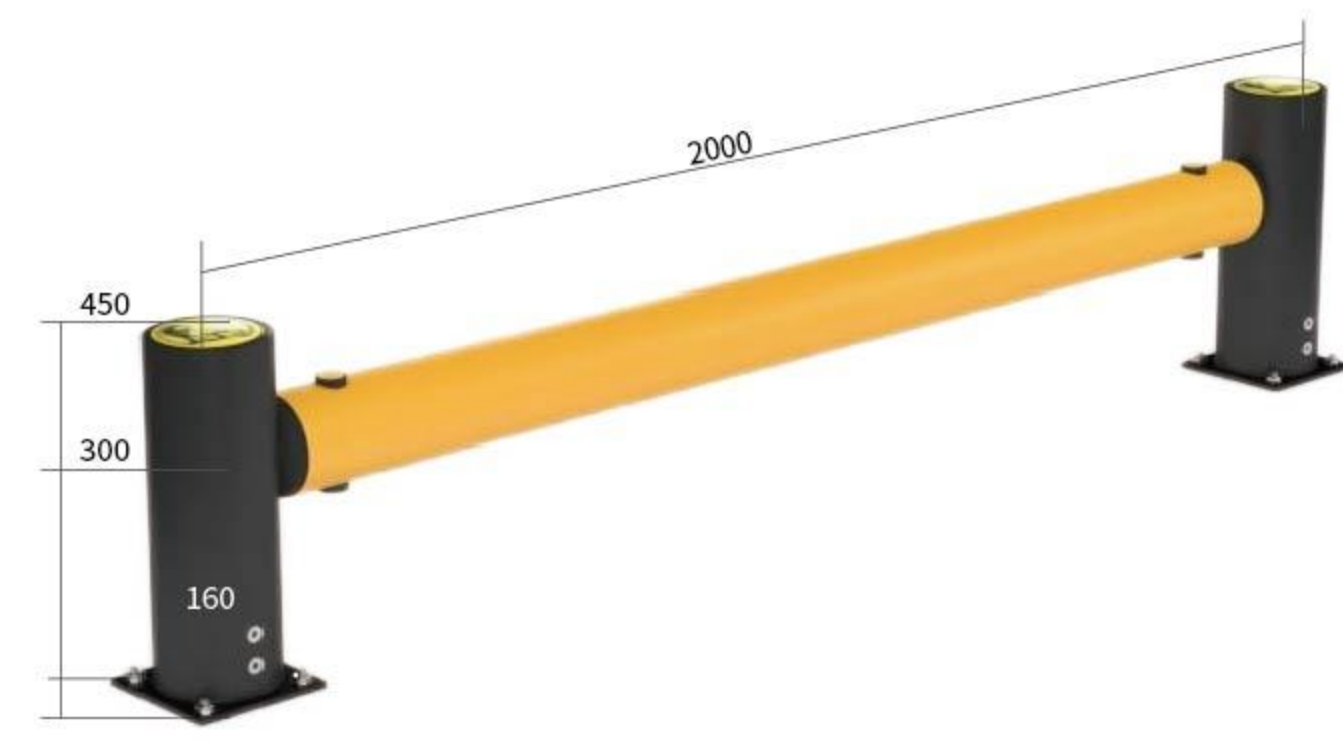
Bollard BO130

Elevator Protection Solution



Wunderbar
Papierement

Monorail Barrier (MB)



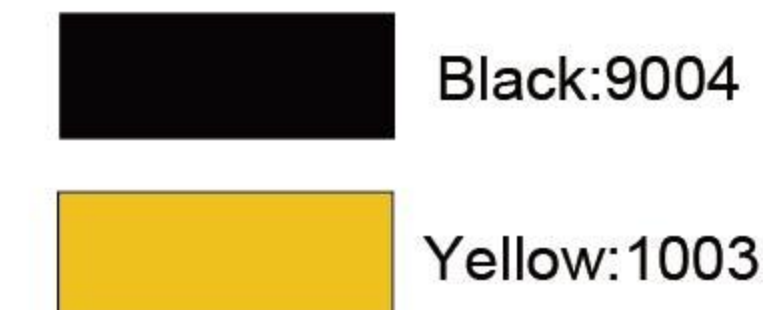
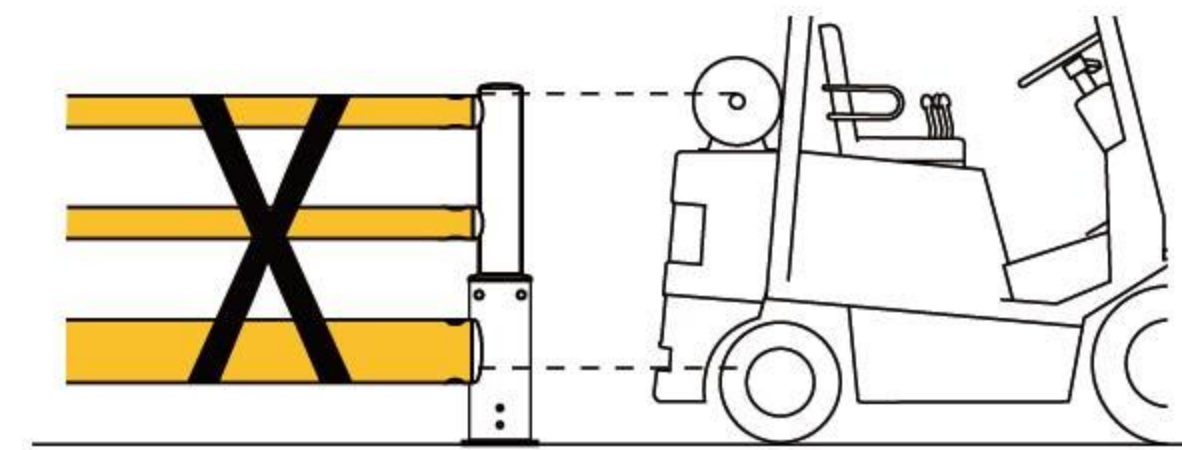
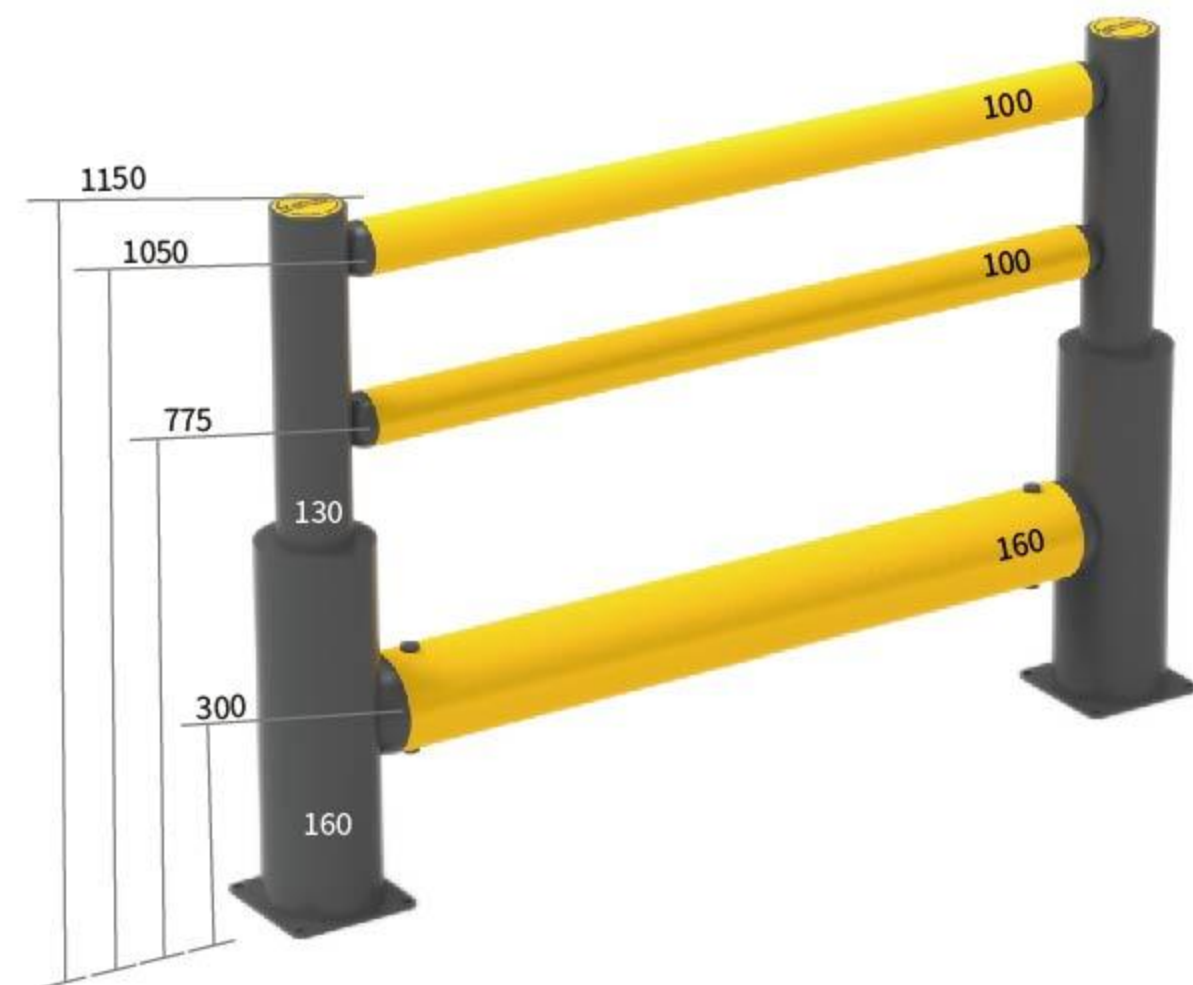
Using high-strength anchor bolts, with a maximum load-bearing capacity of 34KN in tensile strength.

Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
MB100(E)	600~2000	130	100	450	2T,5km/h	90°:1.9kj 45°:3.8kj
MB160	600~2000	160	160	450	3T,5km/h	90°:2.9kj 45°:5.8kj
MB200	600~2000	200	200	450		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Monorail Barrier (MB1+2)



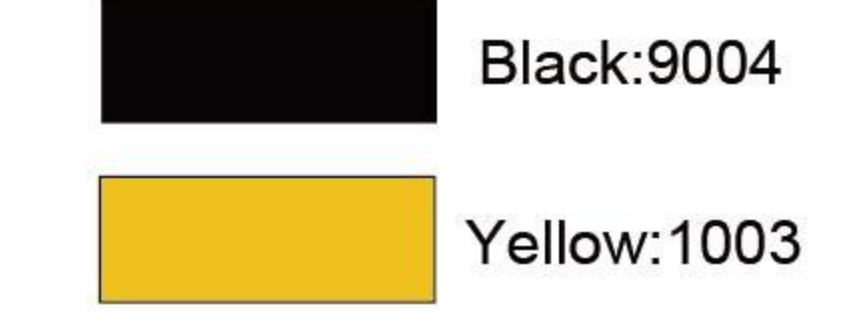
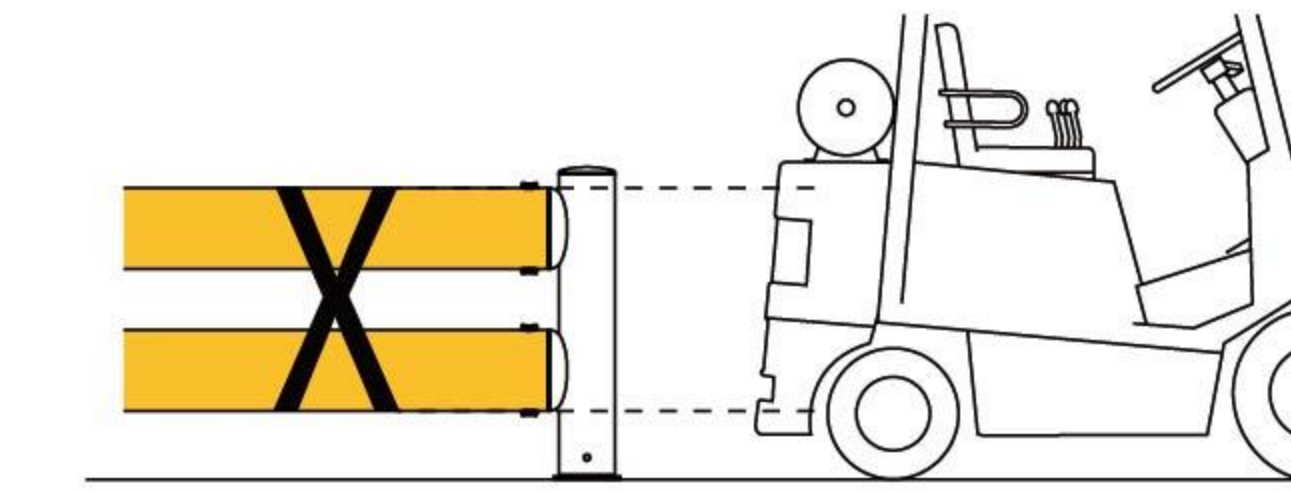
Using high-strength anchor bolts, with a maximum load-bearing capacity of 34KN in tensile strength.

Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
MB1+2-160	600~2000	130&160	100&160	Customizable	3.5T,5km/h	90°:3.4kj 45°:6.8kj
MBE1+2-160	600~2000	160	100&160	Customizable	3.5T,5km/h	90°:3.4kj 45°:6.8kj
MB1+2-200	600~2000	130&200	100&200	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Double Barrier (DB)



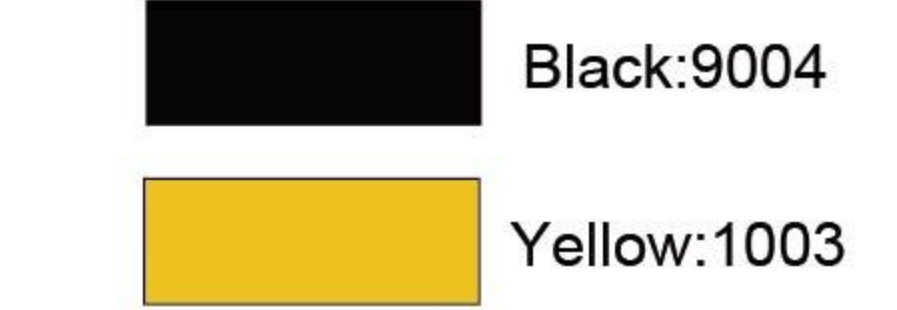
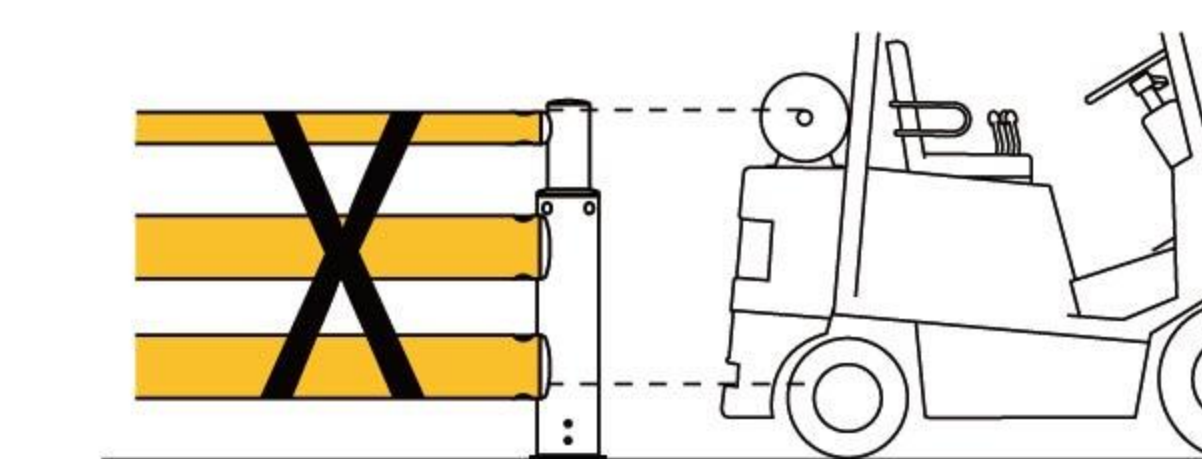
Using high-strength anchor bolts, with a maximum load-bearing capacity of 34KN in tensile strength.

Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
DB100(E)	600~2000	130	100	800	5T, 5km/h	90°:1.9kj 45°:3.8kj
DB160	600~2000	160	160	800	5T, 5km/h	90°:4.8kj 45°:9.6kj
DB200	600~2000	200	200	800		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Double Barrier (DB2+1)



Using high-strength anchor bolts, with a maximum load-bearing capacity of 34KN in tensile strength.

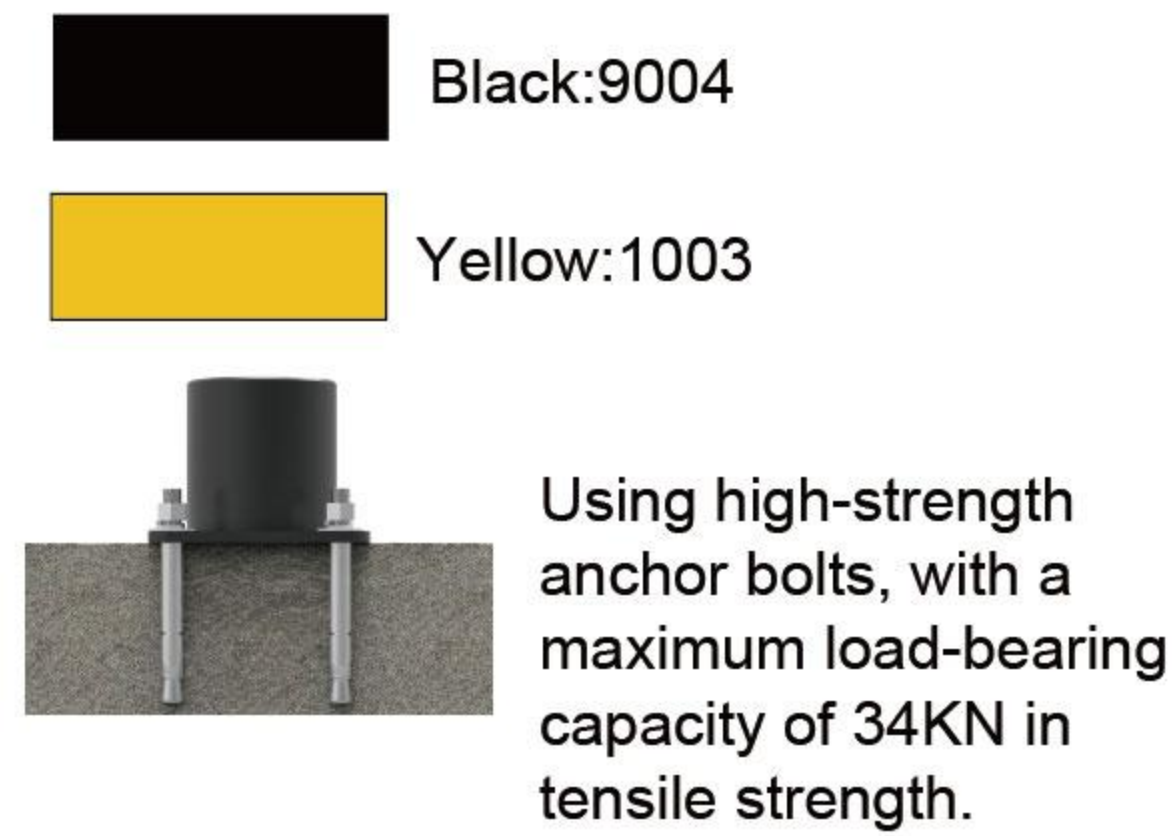
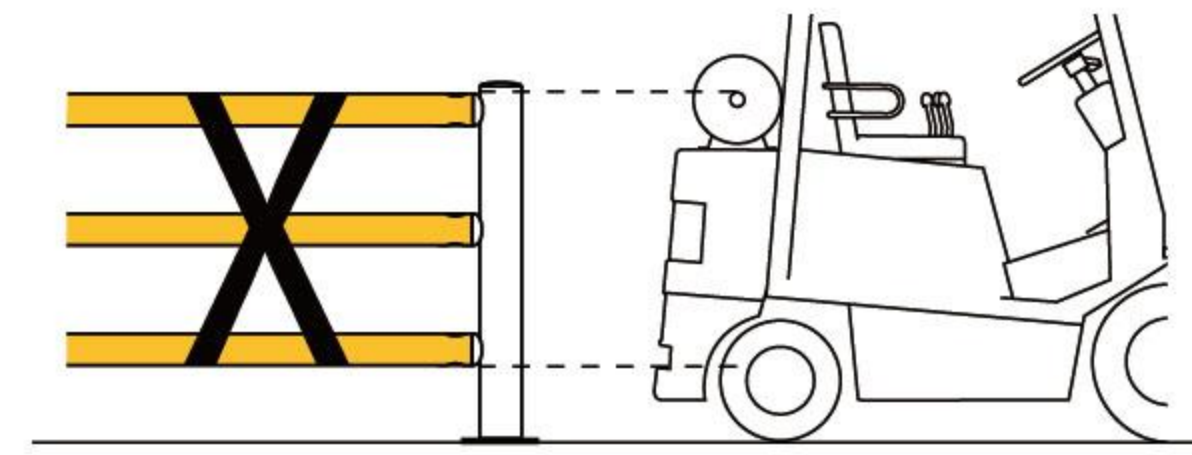
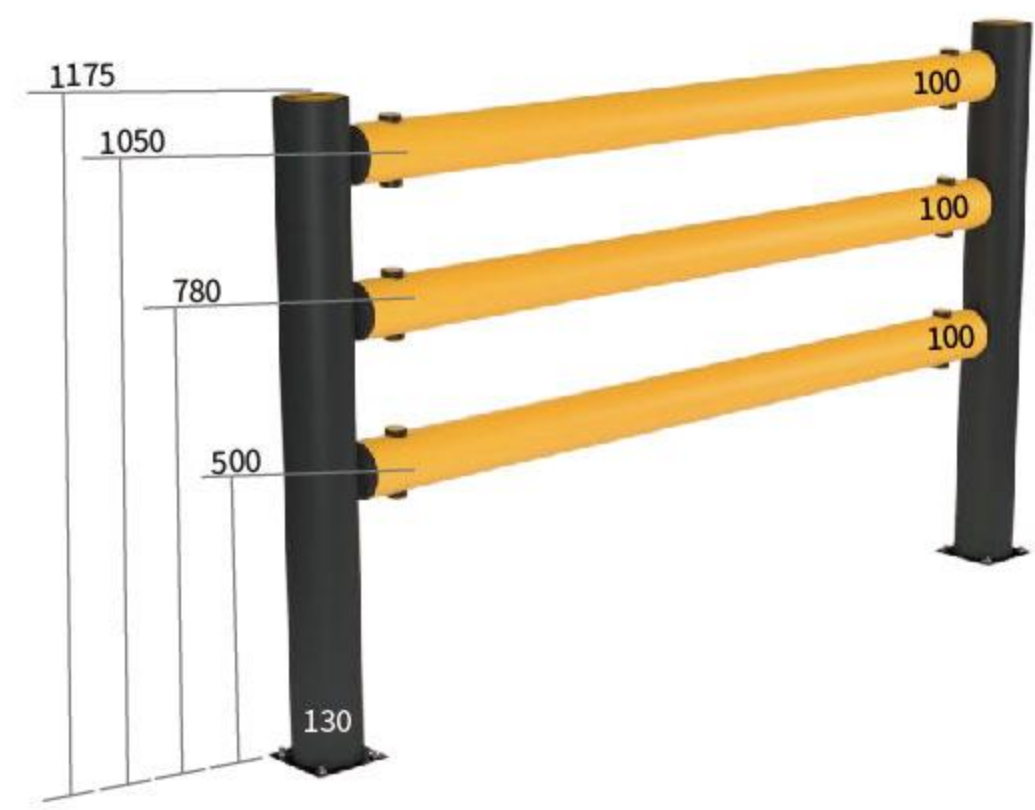
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
DB2+1-160	600~2000	130&160	100&160	Customizable	5T, 5km/h	90°:4.8kj 45°:9.6kj
DB2+1-200	600~2000	130&200	100&200	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Pedestrian Barrier (PB)

Unit:mm



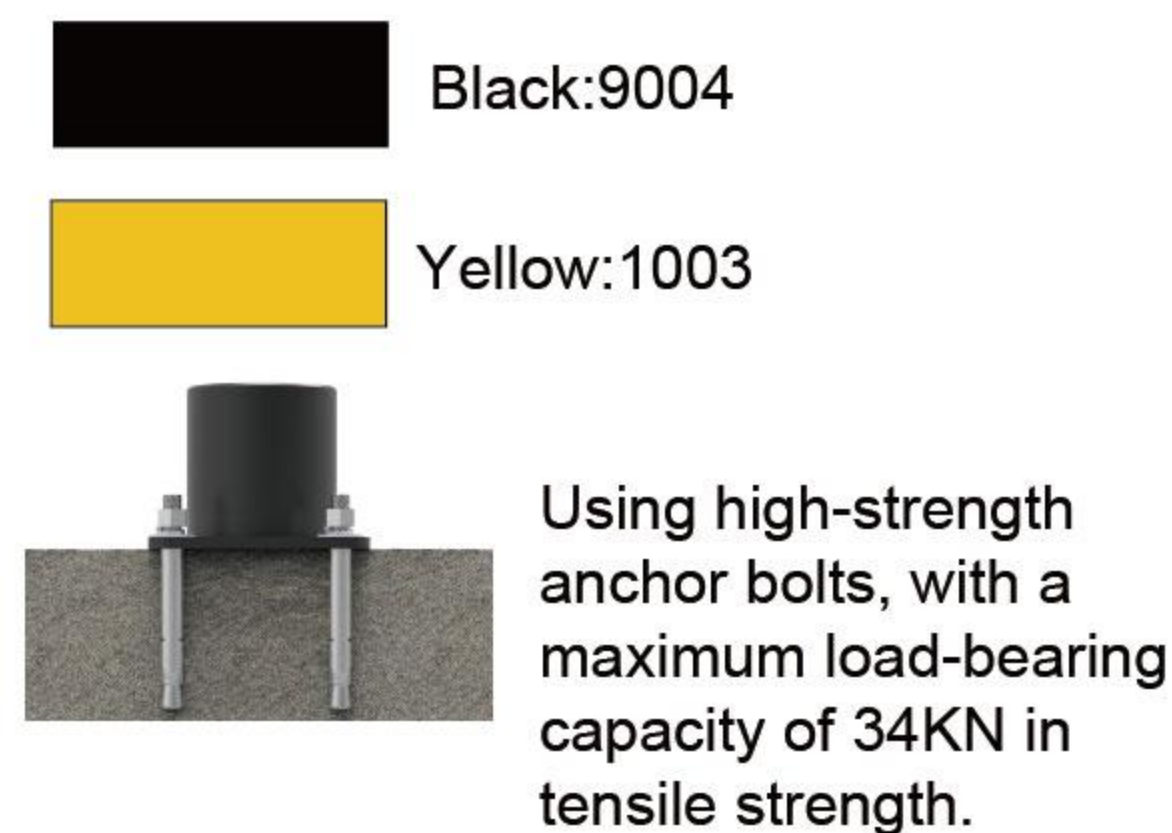
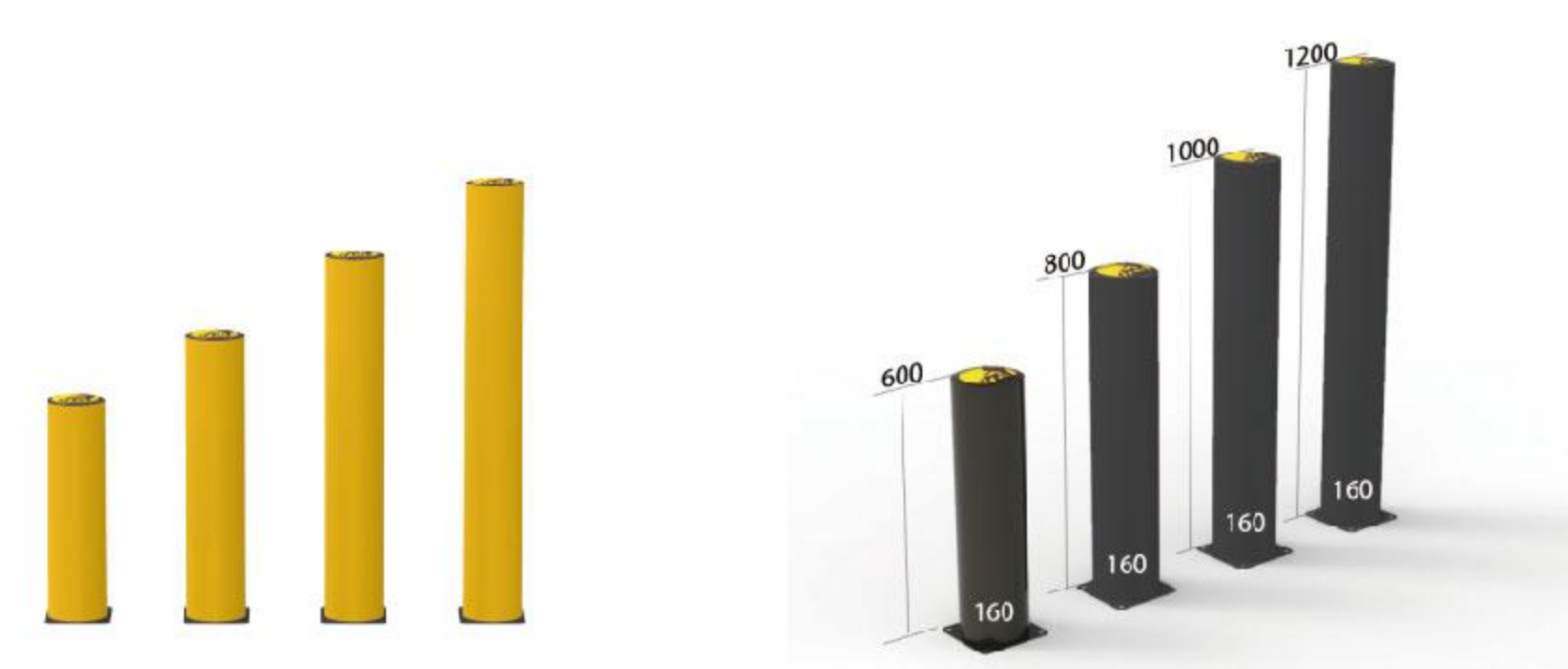
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
PB100	600~2000	130	100	1175	2T, 5km/h	90°:1.9kj 45°:3.8kj
PB100E	600~2000	130	100	1175	2T, 5km/h	90°:1.9kj 45°:3.8kj

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
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- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Bollard (BO)

Unit:mm

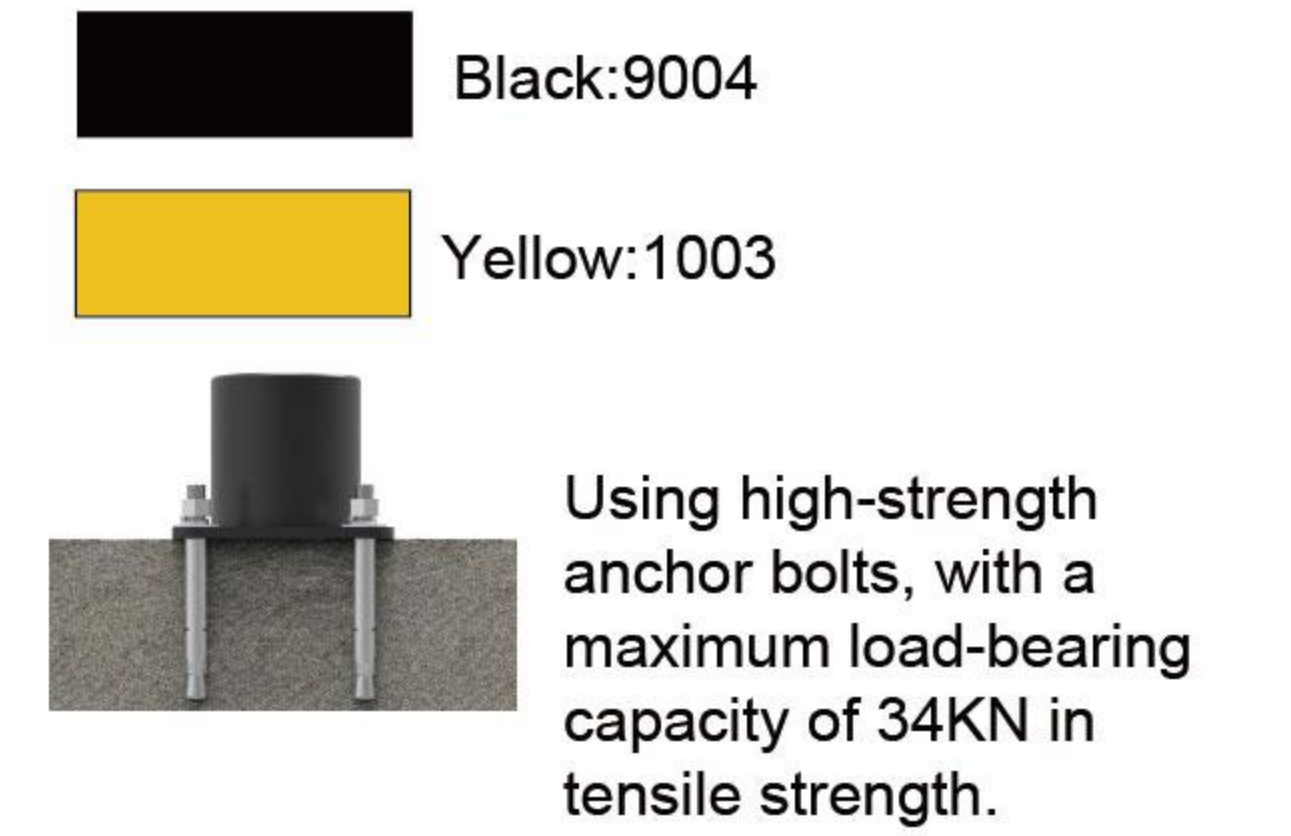
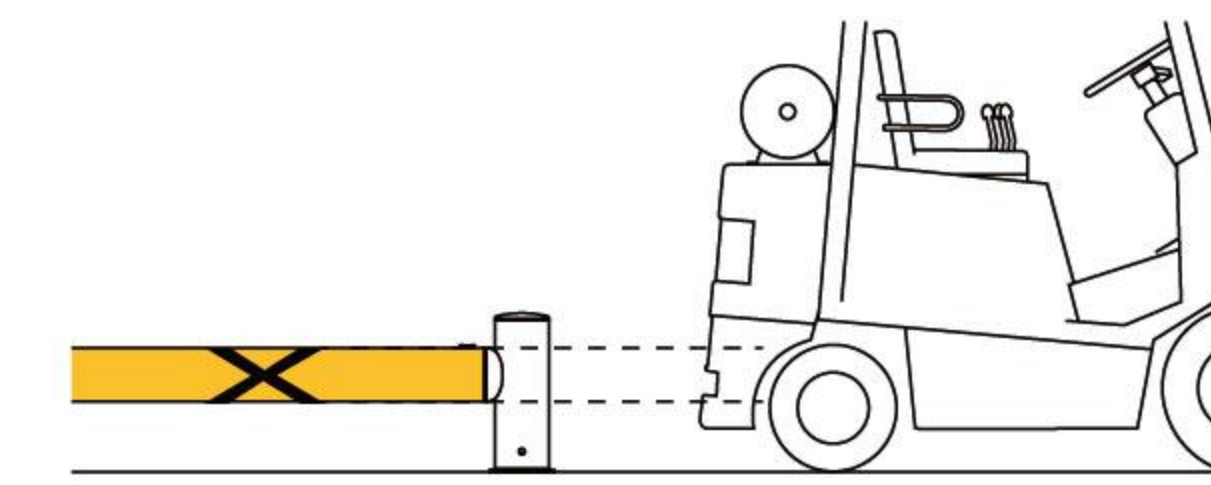
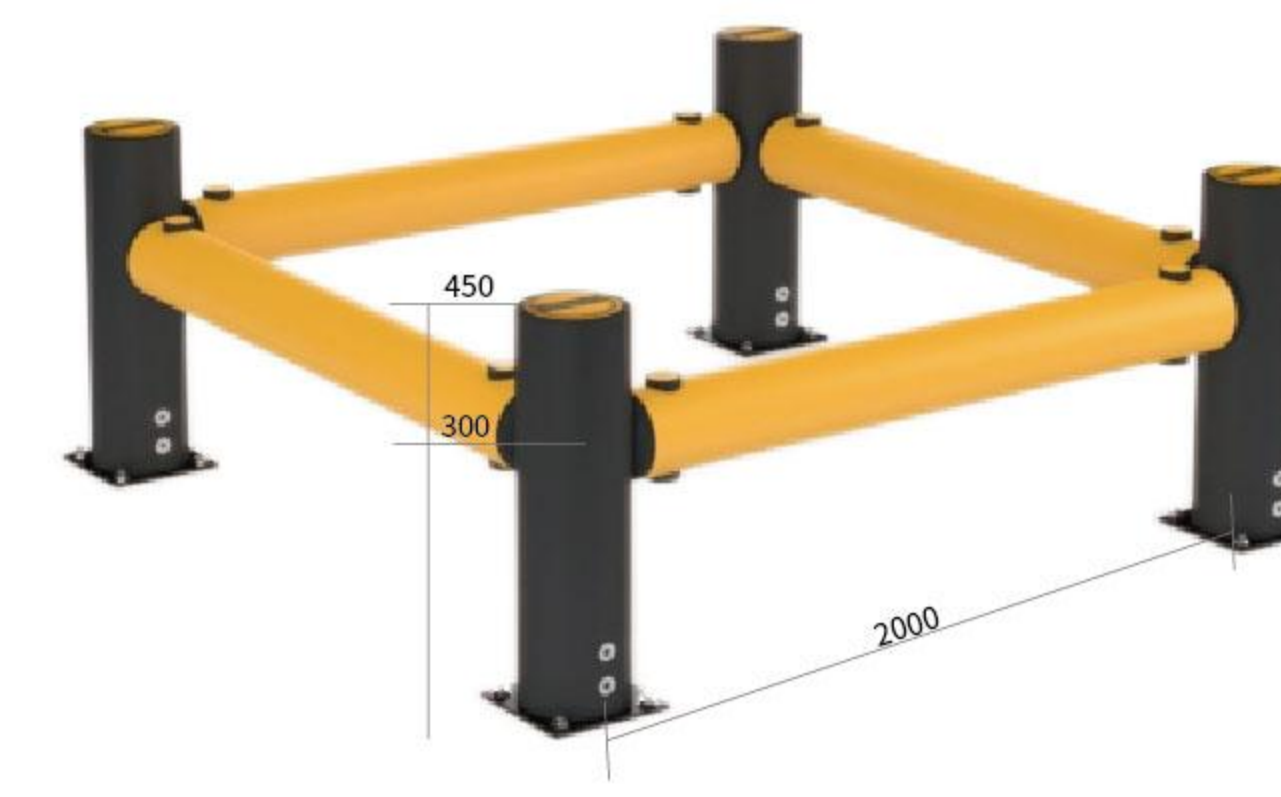


Model	Column Diameter	Height	Color	Crash Performance	Crash Energy
BO130	130	800	Yellow, Black	0.5T, 5km/h	90°:0.5kj
BO160	160	800	Yellow, Black	2.5T, 5km/h	90°:2.4kj
BO160S	160	800	Yellow, Black	4T, 5km/h	90°:3.9kj

Model	Column Diameter	Height	Color	Crash Performance	Crash Energy
BOII-168	168	600	Silver	1.5T, 60km/h	90°:192.9kj
BOII-140	140	1015	Yellow	1.5T, 50km/h	90°:144.7kj

Column Barrier(CB1)

Unit:mm



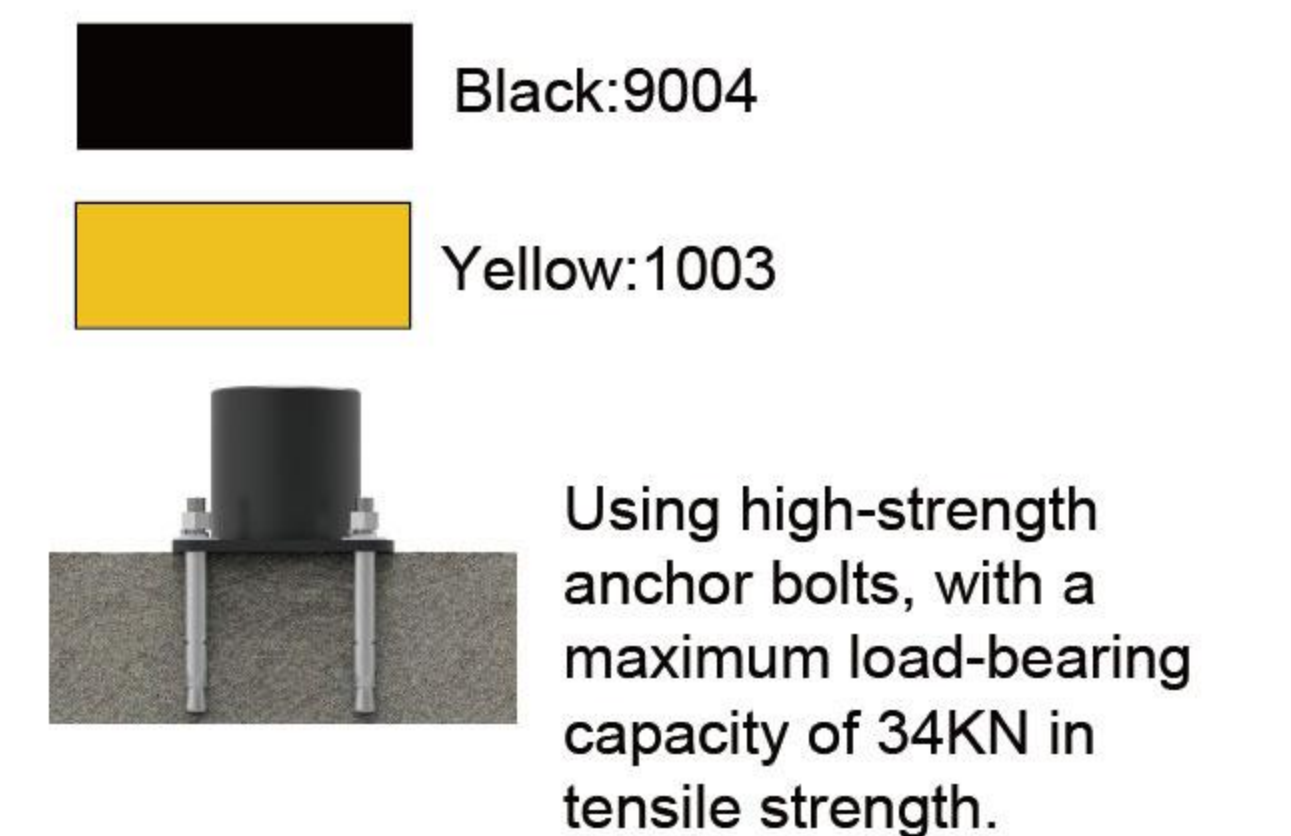
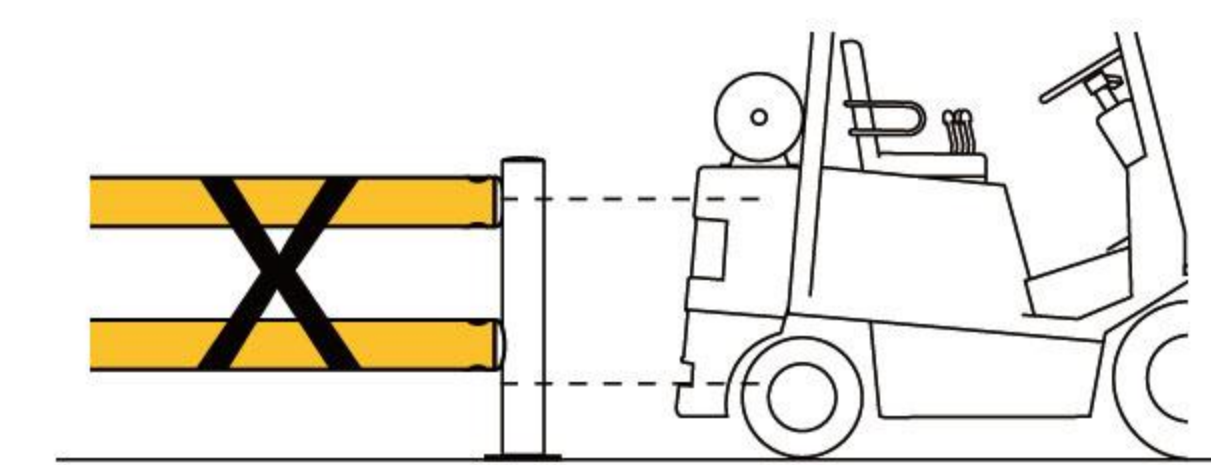
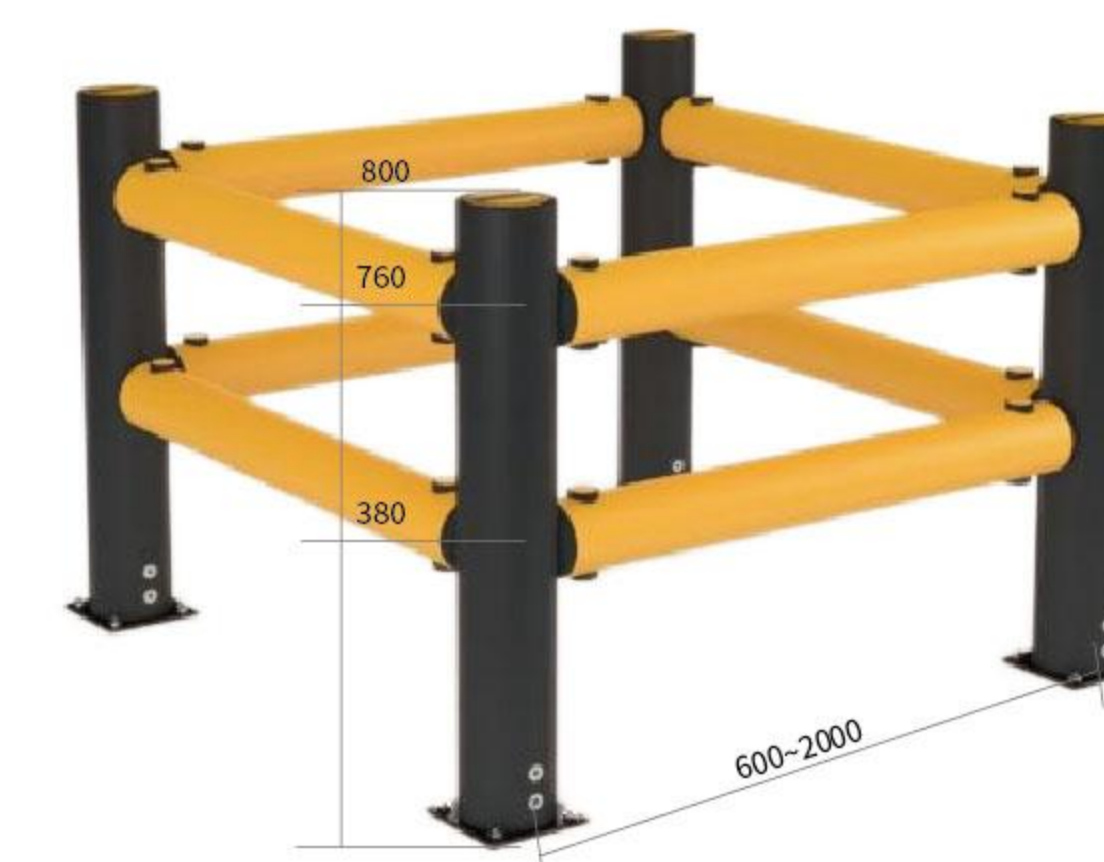
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
CB1-100	600~2000	130	100	Customizable	0.5T, 5km/h	90°:0.5kj 45°:1.0kj
CB1-63E	600~2000	130	63	Customizable		
CB1-160	600~2000	160	160	Customizable	3.5T, 5km/h	90°:3.4kj 45°:6.8kj
CB2-200	600~2000	200	200	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Column Barrier(CB2)

Unit:mm



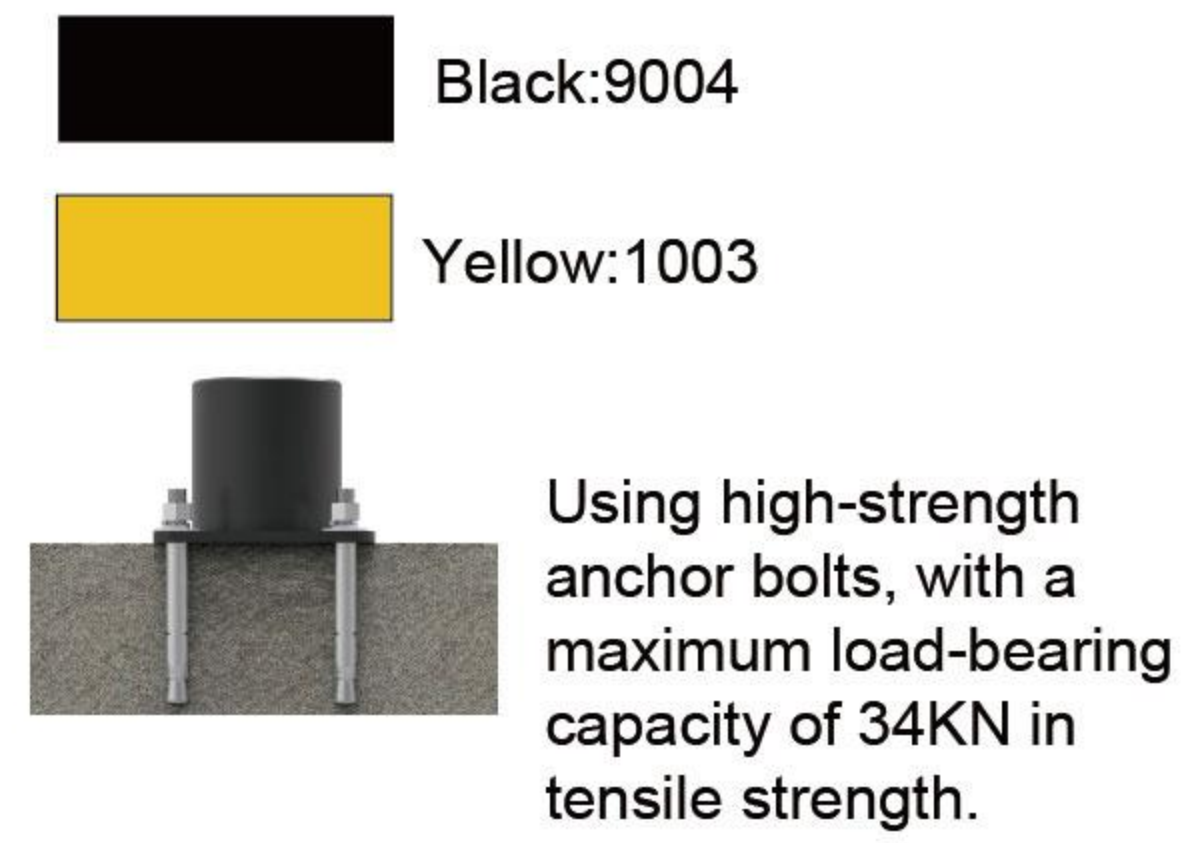
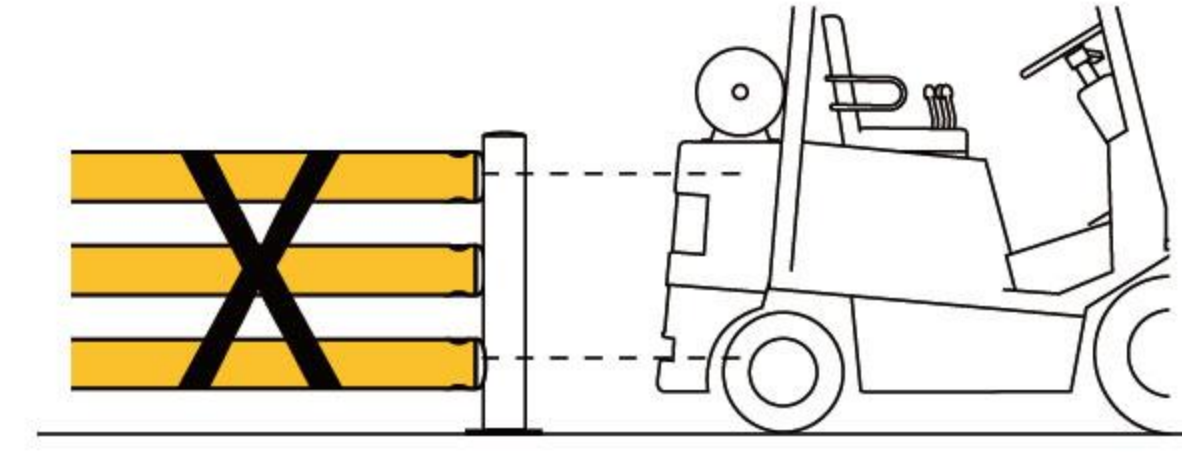
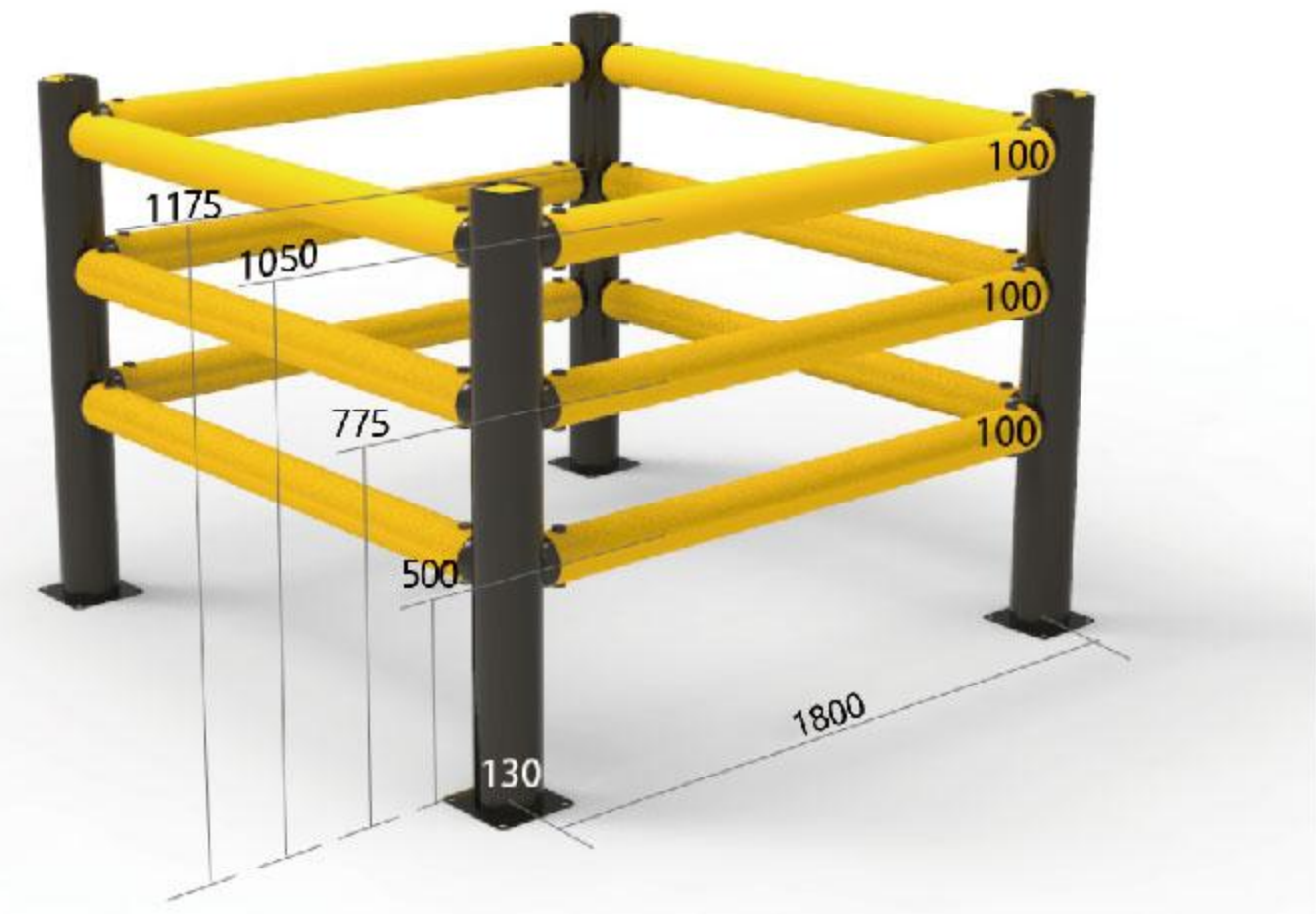
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
CB2-100	600~2000	130	100	Customizable	1T, 5km/h	90°:1.0kj 45°:2.0kj
CB2-63E	600~2000	130	63	Customizable		
CB2-160	600~2000	160	160	Customizable	5T, 5km/h	90°:4.8kj 45°:9.6kj
CB2-200	600~2000	200	200	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Column Barrier(CB3)

Unit:mm



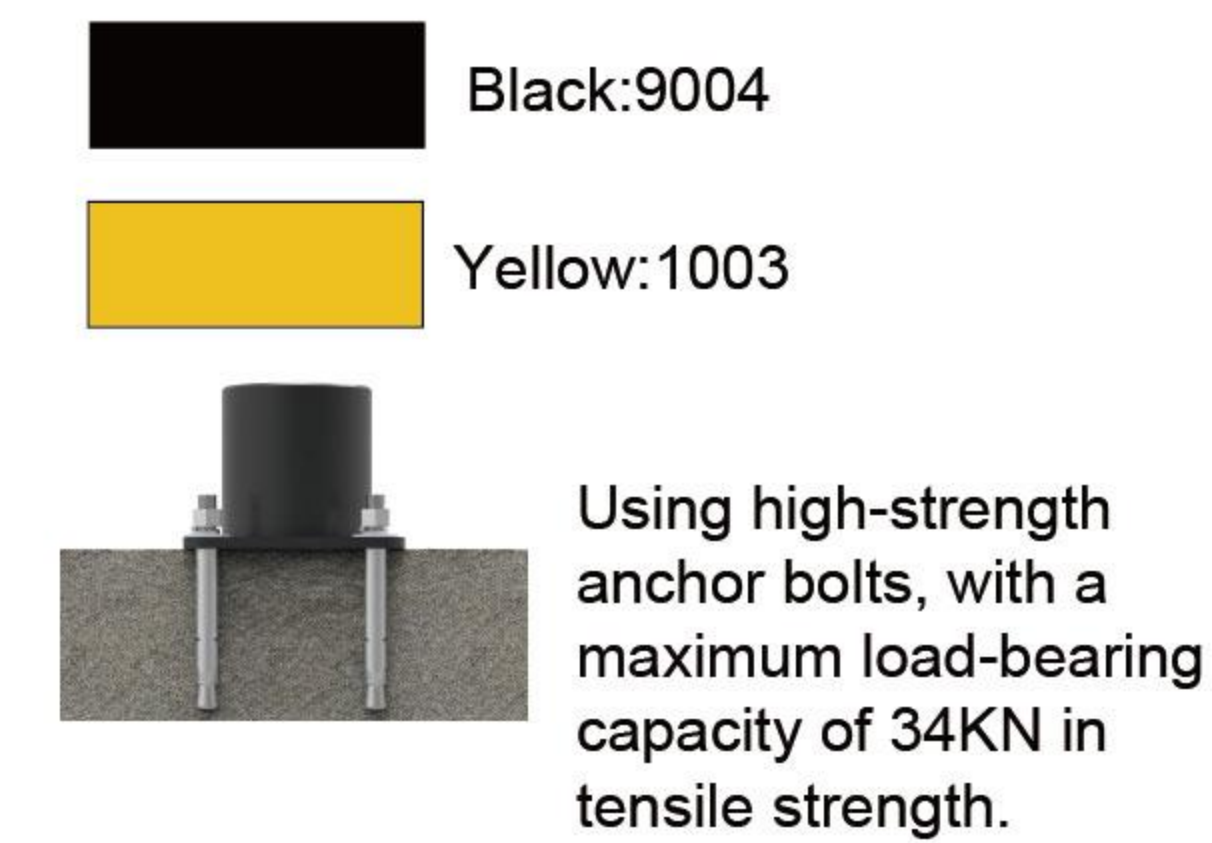
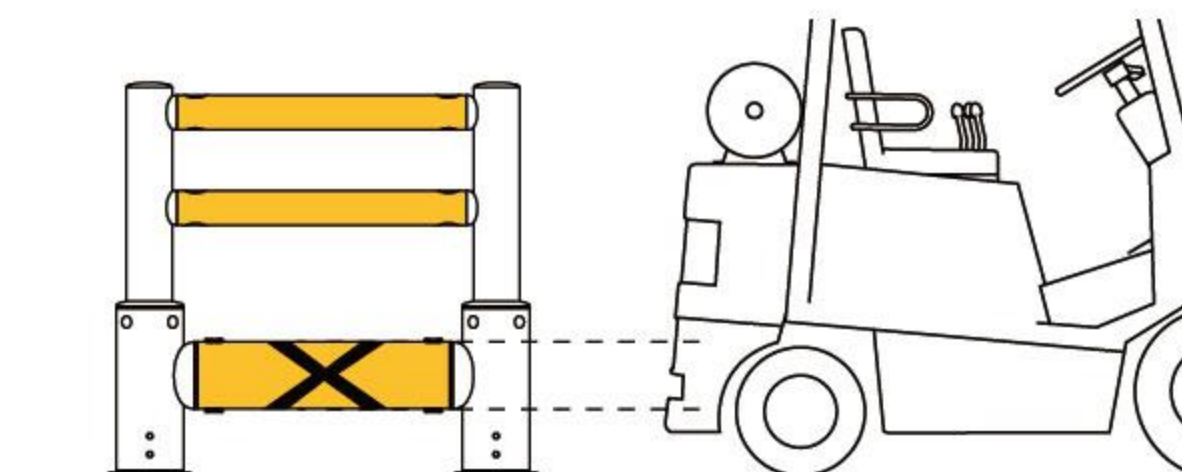
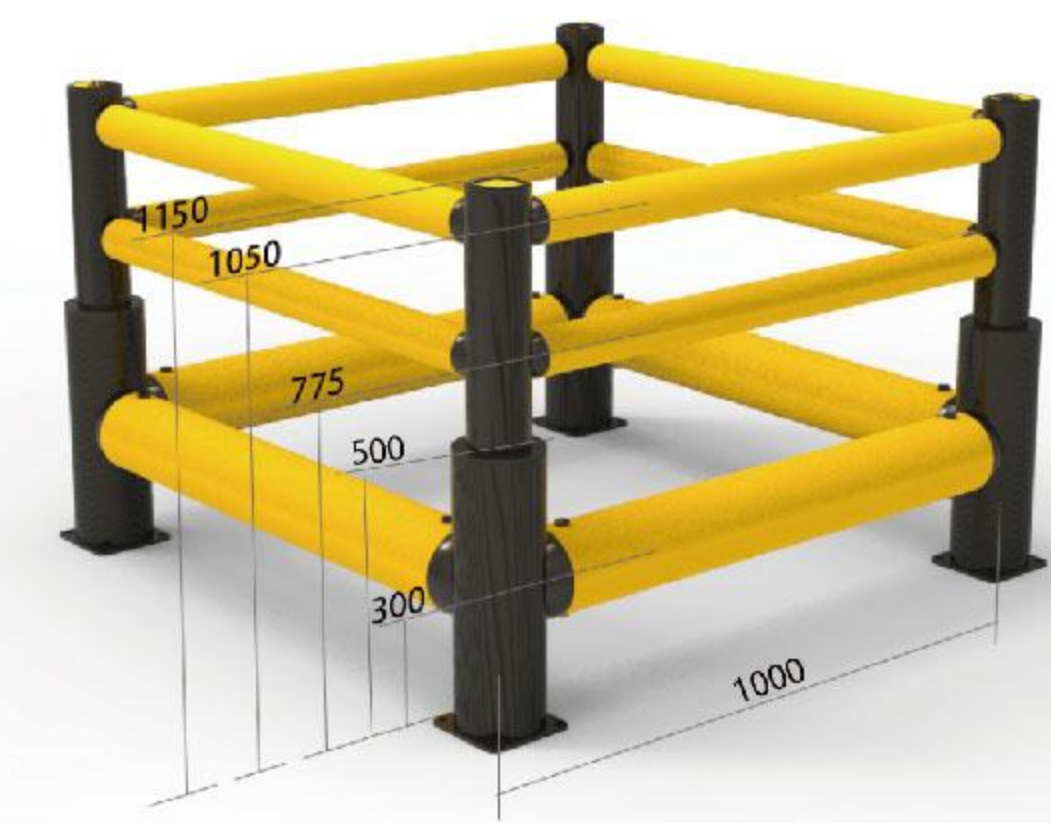
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
CB3-100	600~2000	130	100	Customizable	1T, 5km/h	90°:1.0kj 45°:2.0kj
CB3-63E	600~2000	130	63	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Column Barrier(CB1+2)

Unit:mm



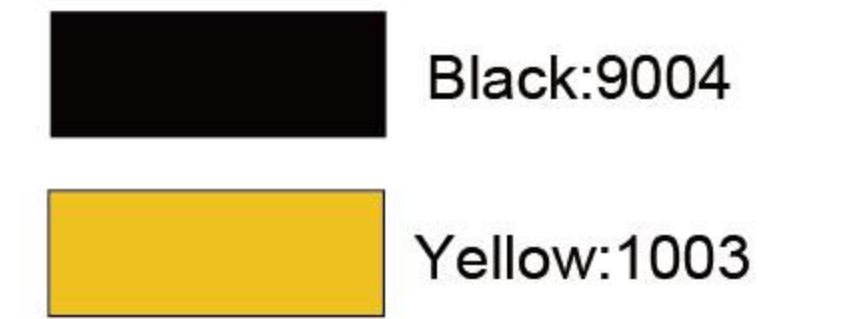
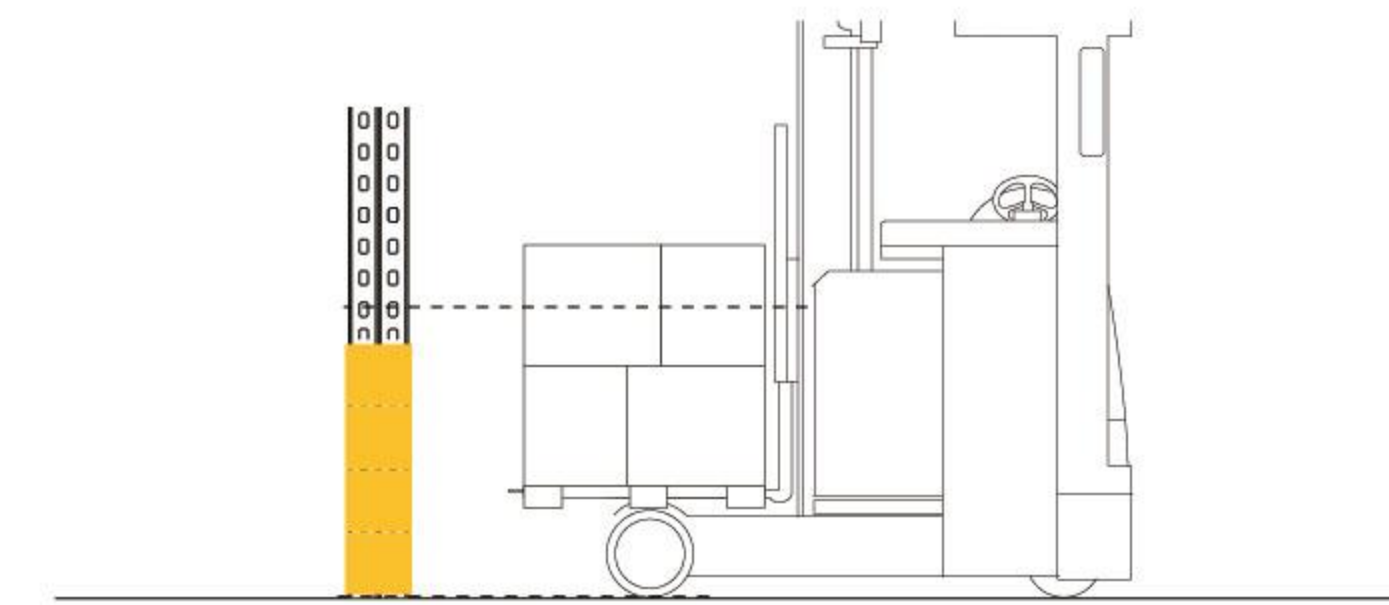
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
CB1+2-160	600~2000	130&160	100&160	Customizable	3.5T, 5km/h	90°:3.4kj 45°:6.8kj
CB1+2-200	600~2000	130&200	100&200	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Rack Protector

Unit:mm



Model	Unit Height	Front Buffer Zone	Height	Crash Performance	Impact Resistance
RP400	100	100*130*4	100*4	1.5T, 5km/h	90°:1.4kj 45°:2.8kj

Application Scenarios:

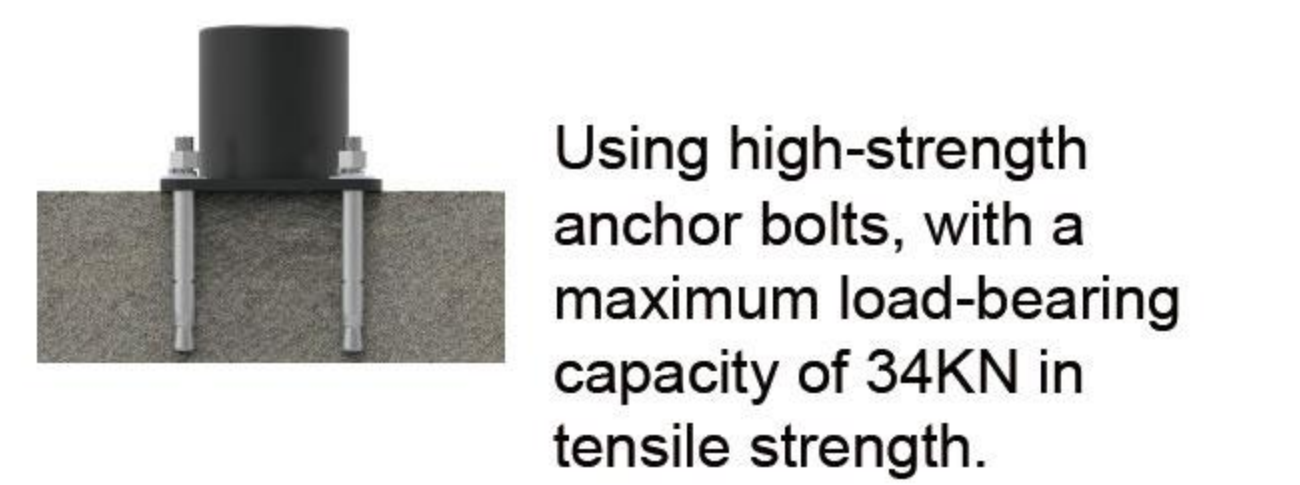
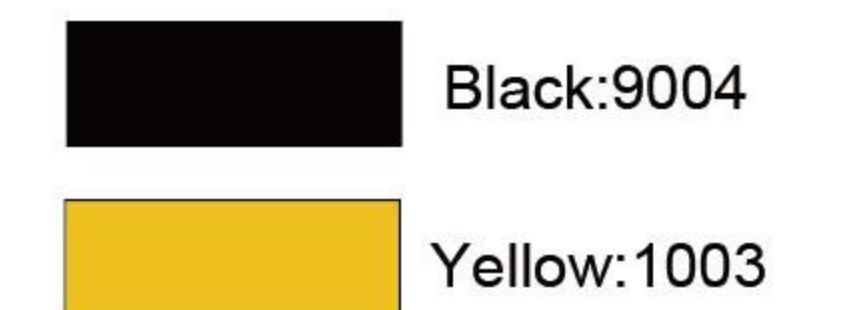
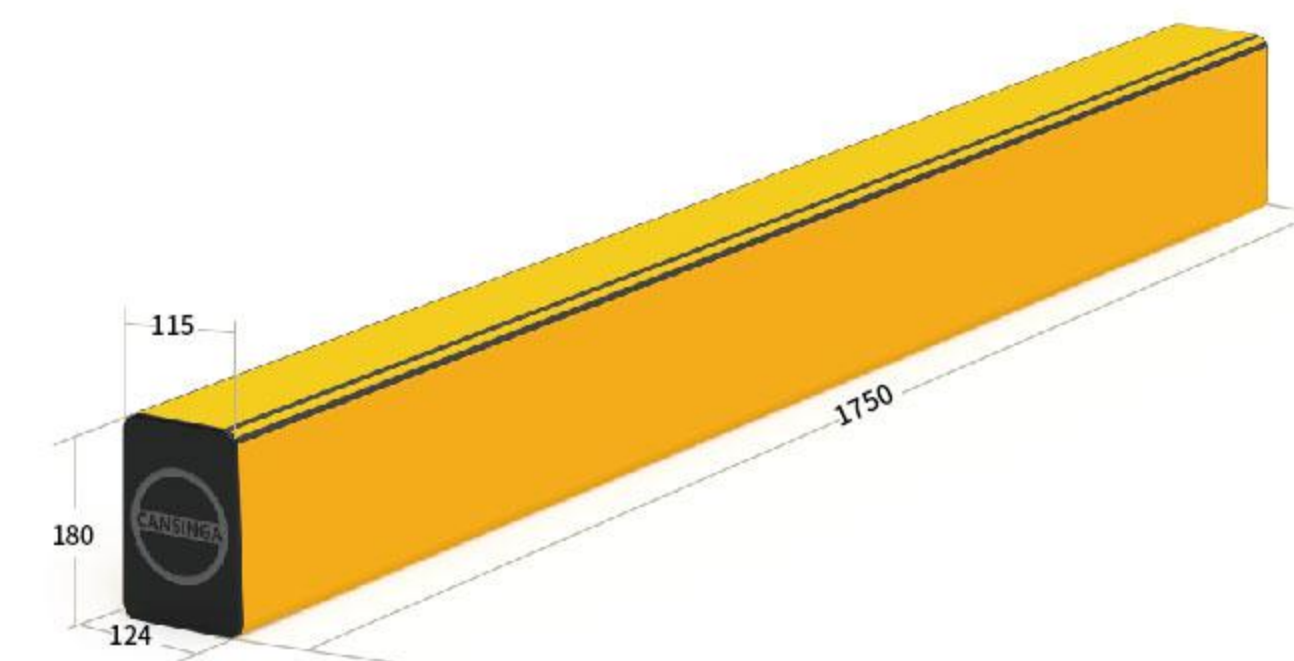
Suitable for 80~100mm shelf column protection, preventing direct impact damage to the shelves caused by forklifts and other moving units.

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Fork Barrier

Unit:mm



Model	Length	Width	Height	Crash Performance	Impact Resistance
FB-180	450-3000	124	180	5T, 5km/h	90°:4.8kj 45°:9.6kj

Application Scenarios:

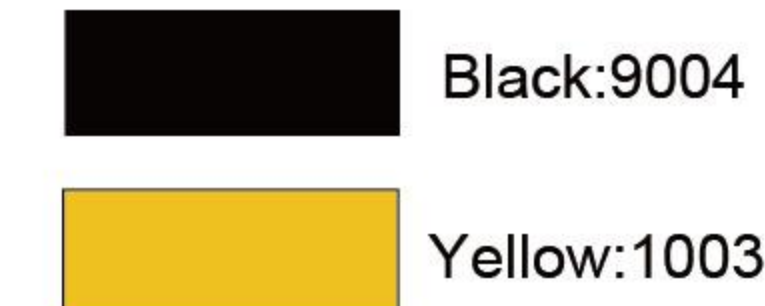
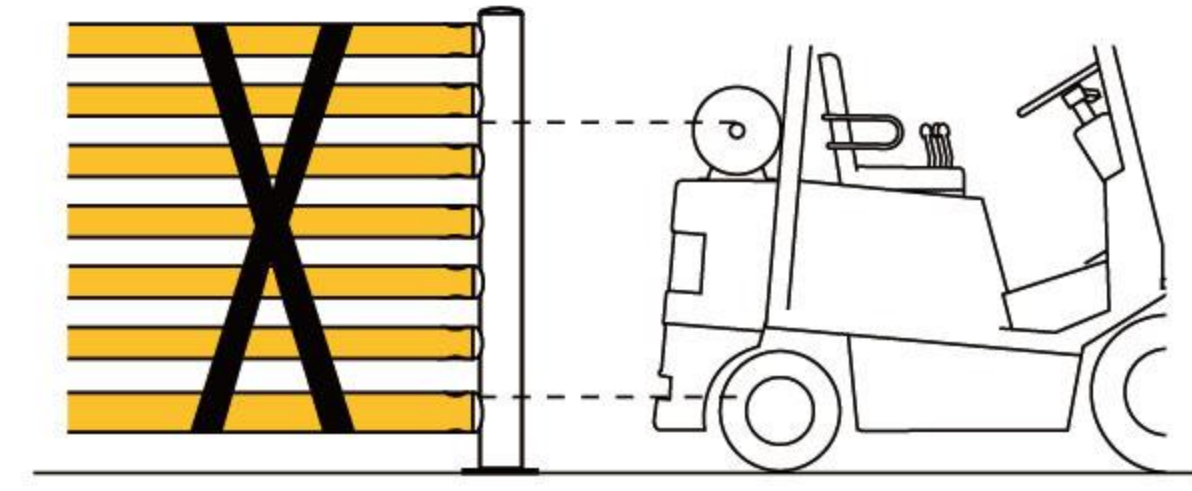
Suitable for safety protection of elevators, building columns, and important equipment, preventing damage to the protected objects caused by forklift forks and other moving units.

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

High Barrier (HB1)

Unit:mm



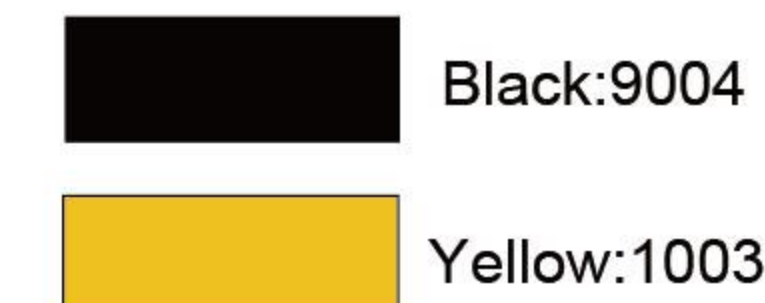
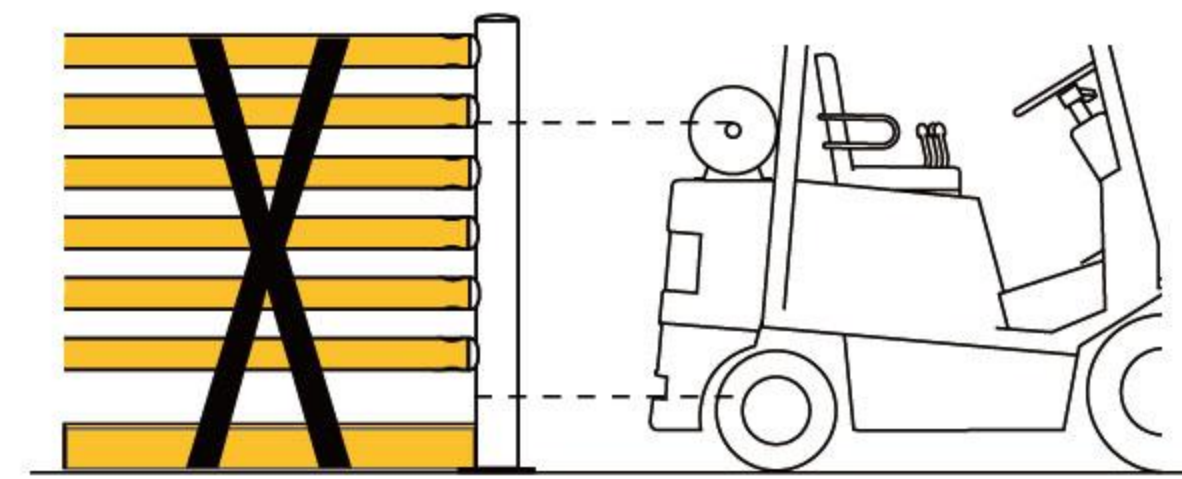
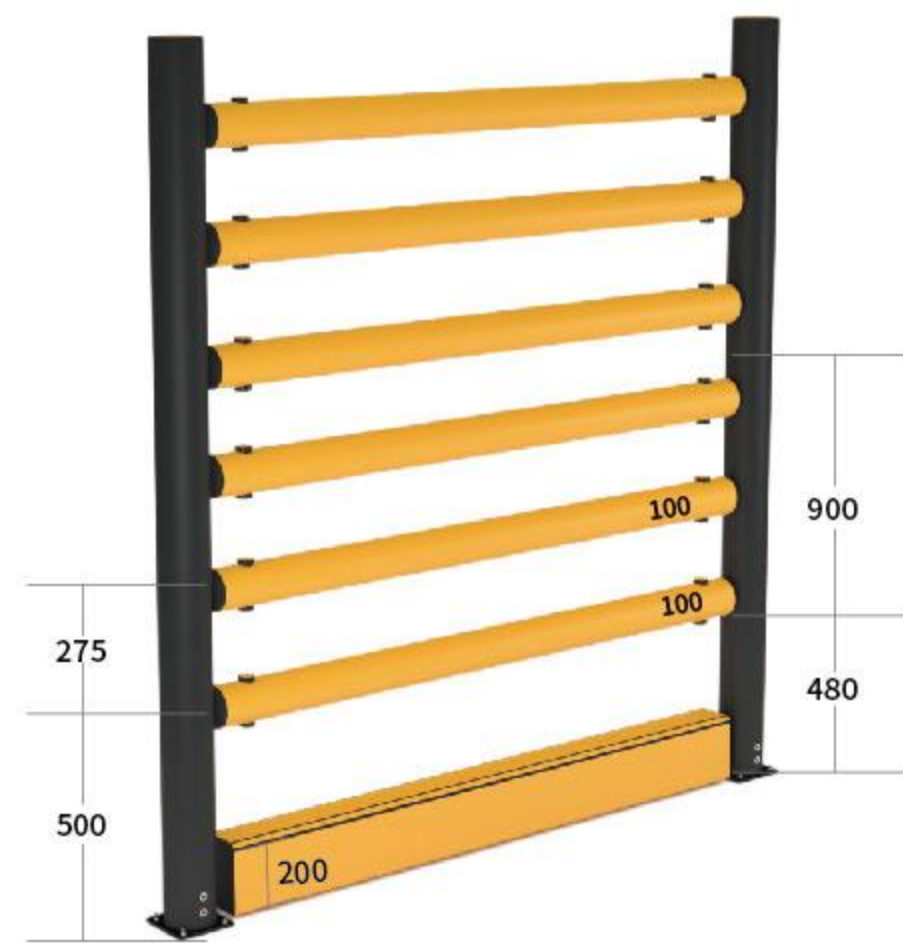
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
HB1-160	600~2000	160	100&160	Customizable	3T, 5km/h	90°:2.9kj 45°:5.8kj
HB1-200	600~2000	200	100&200	Customizable		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

High Barrier (HB2)

Unit:mm



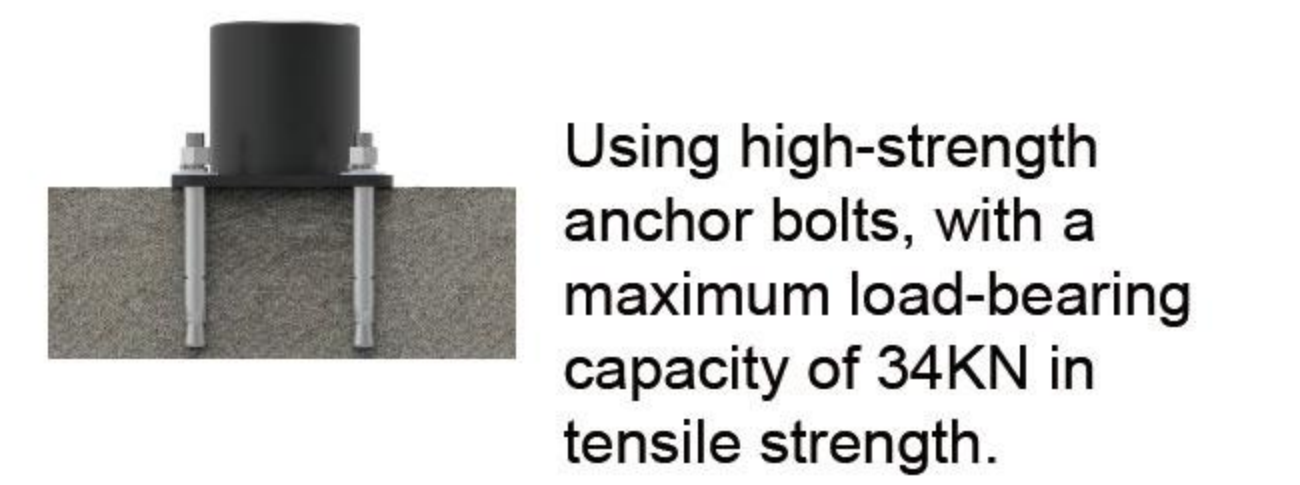
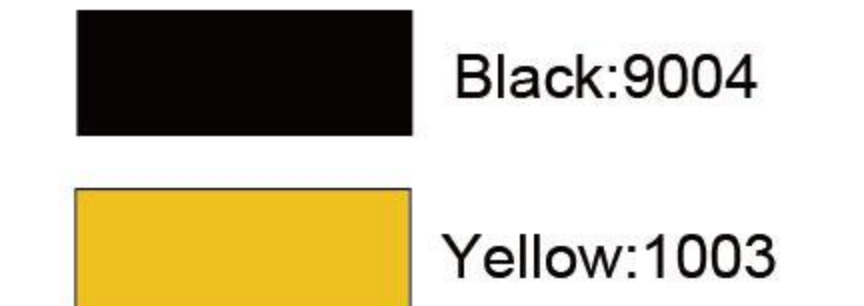
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
HB2-100	600~2000	130	100	2000~5000	2T, 5km/h	90°:1.9kj 45°:3.8kj
HB2-160	600~2000	160	100	2000~5000	3T, 5km/h	90°:2.9kj 45°:5.8kj
HB2-200	600~2000	200	100	2000~5000		

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

High Restrictor

Unit:mm



Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
HR1-160	1000~5000	160	160	2000~5000	1T, 5km/h	90°:1.0kj 45°:2.0kj
HR1-200	1000~5000	200	200	2000~5000		

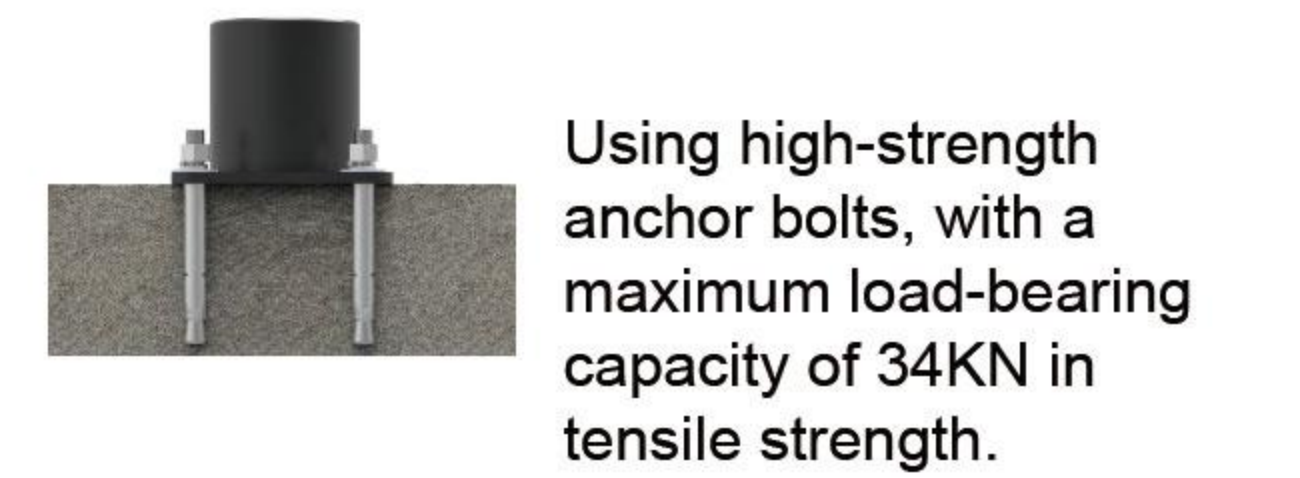
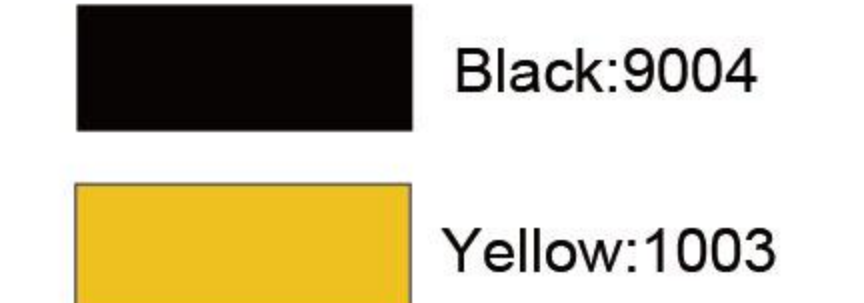
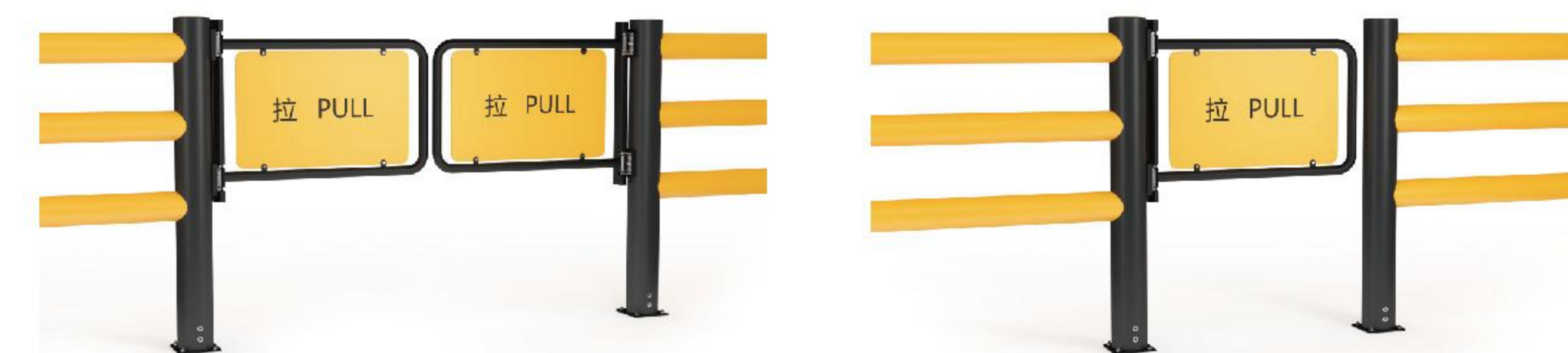
Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
HR2-100	1000~5000	130&160	100	2000~5000	0.5T, 5km/h	90°:0.5kj 45°:1.0kj
HR2-160	1000~5000	160&200	160	2000~5000	1.5T, 5km/h	90°:1.4kj 45°:2.8kj

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
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- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
- ✓ Flexible energy absorption and rebound, without damaging vehicle, ground, and equipment assets
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- ✓ One time installation, eliminating later maintenance costs

Safe Door (SD1)

Unit:mm



Model	Door Width	Column Diameter	Beam Diameter	Height
SD1-100	850	130	100	1150
SD1-100II	1700	130	100	1150

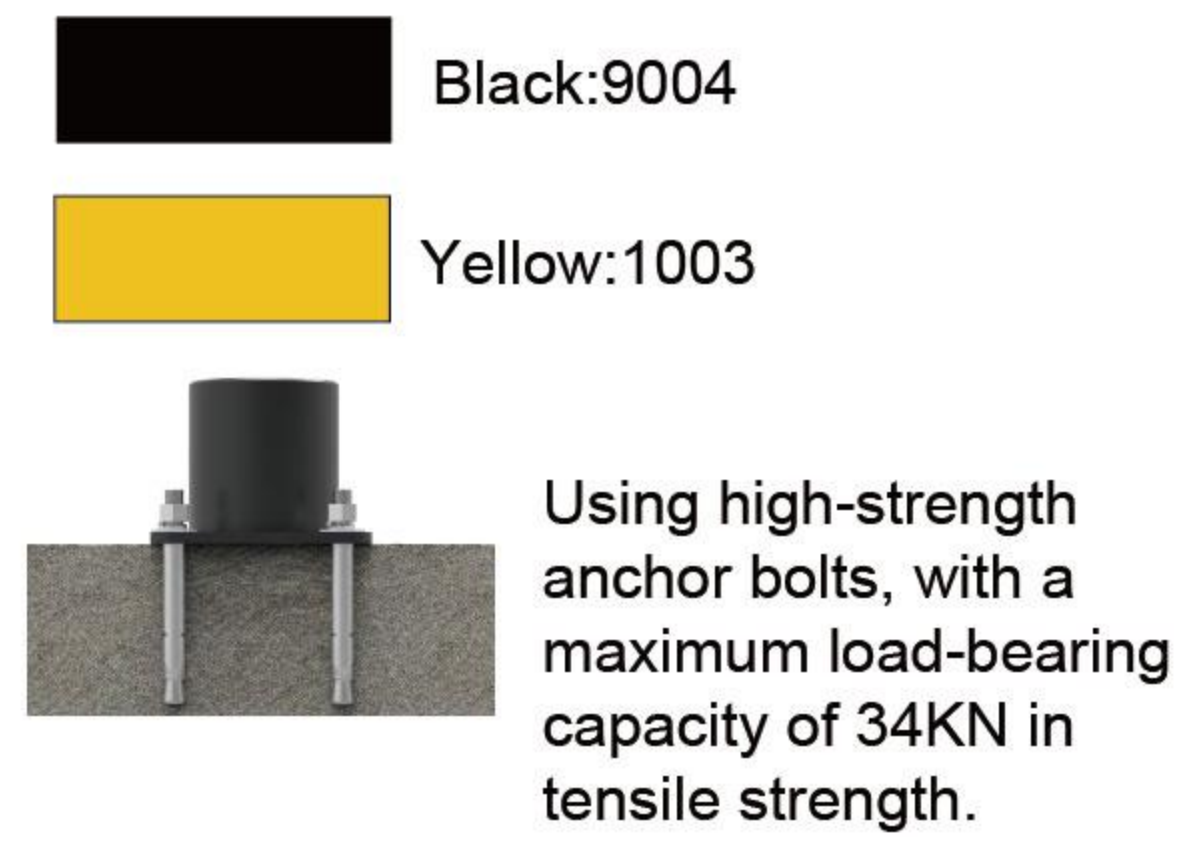
Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
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Safe Door (SD2)



Unit:mm

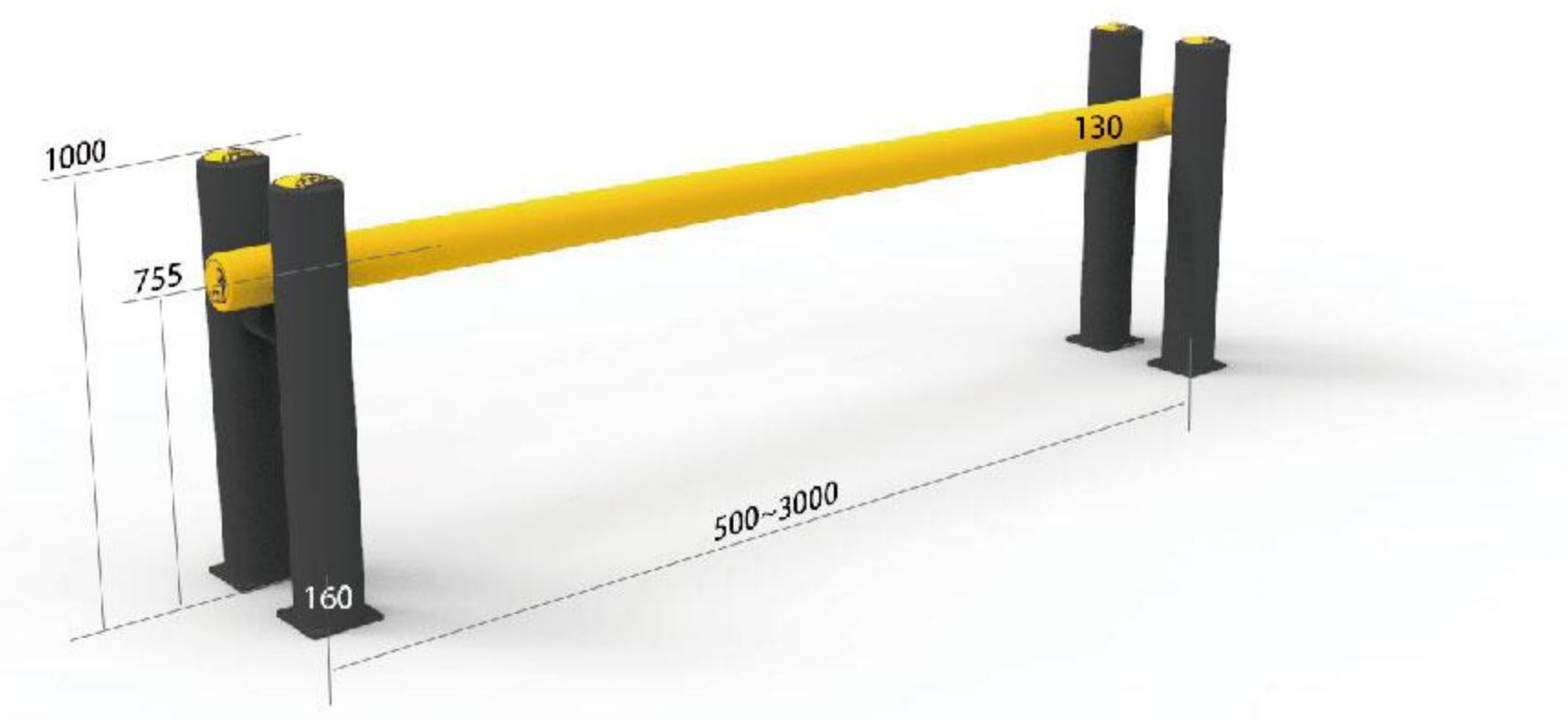


Model	Door Width	Column Diameter	Beam Diameter	Height
SD2-130	1000	130	63&100	1175

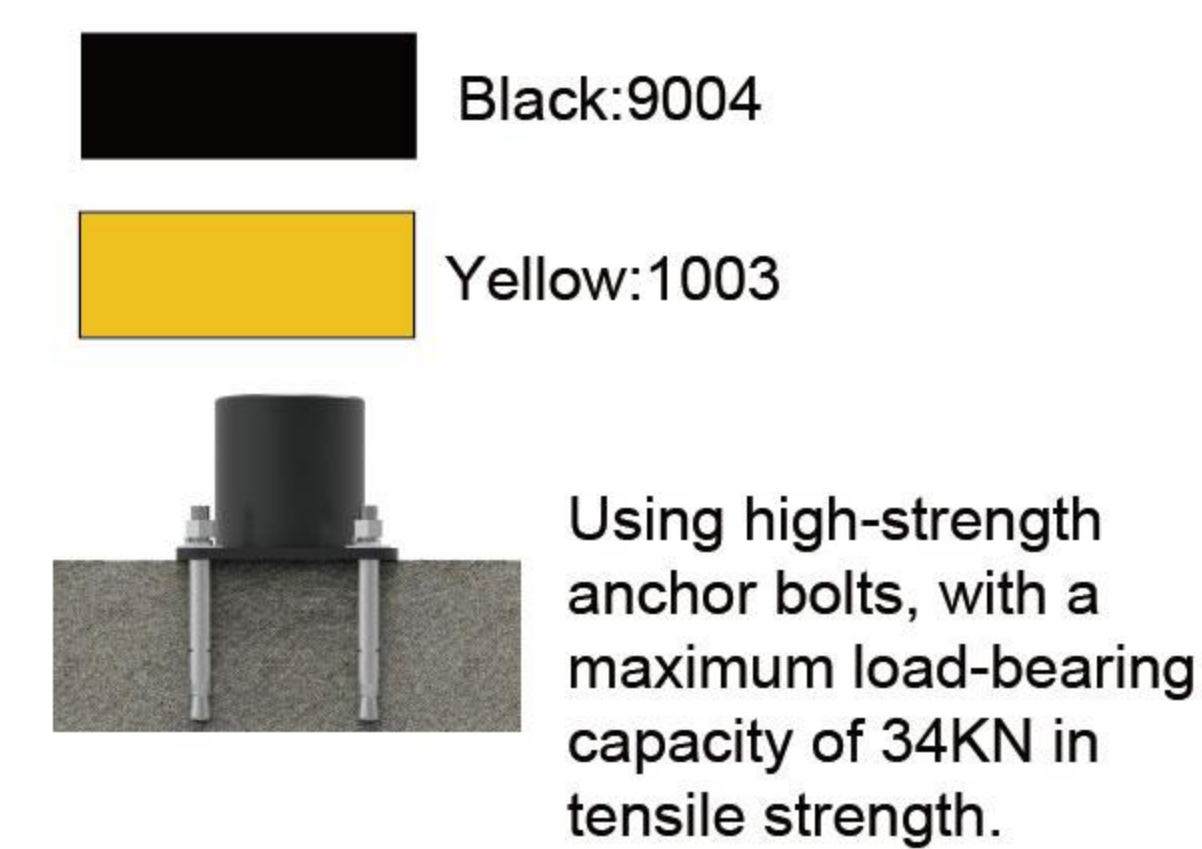
Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
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Safe Door (SD3)



Unit:mm



Model	Length	Column Diameter	Beam Diameter	Height	Crash Performance	Crash Energy
SD3-100	500~2000	130	100	Customizable	0.5T, 5km/h	90°:0.5kj 45°:1.0kj
SD3-160	500~2000	160	160	Customizable	0.5T, 5km/h	90°:0.5kj 45°:1.0kj

Product Features

- ✓ Adopting self-developed CSGFLEX polymer material with strong memory resilience
- ✓ Adopting a new double-layer extrusion process, the pipe can absorb over 80% of the impact force
- ✓ Guaranteed for two years with no damage by collision
- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
- ✓ Corrosion and rust prevention, UV resistance, and no fading
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- ✓ Modular assembly for easier disassembly and replacement
- ✓ One time installation, eliminating later maintenance costs

Platform Bumper (PB)

Unit:mm



Model	Unit Length	Column Diameter	Height	Crash Performance
PB-01	300-500	160/200	Customizable	20T, 0.6Km/h

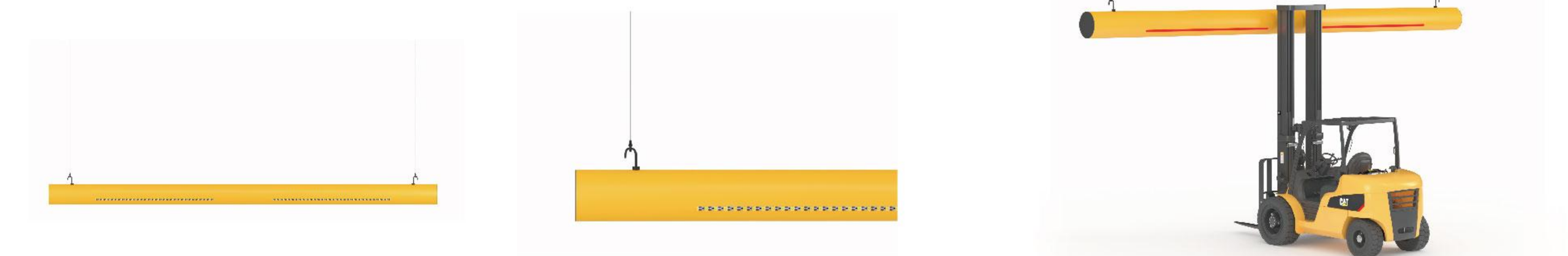
Application Scenarios:

The products suitable for various types of loading and unloading docks, providing first-class loading and unloading protection, reducing the risk of damage to the dock and vehicles.

Product Features

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Alarm Bar (AB)



Model	Pipe Diameter	Length	Alarm Type	Alarm Trigger	Collision Limit	Tensile Limit
AB-01	130	2000	Audible and Visua	Touch Tilt ≥ 15° / Vibration ≥ 10mm/s	5t	300kg

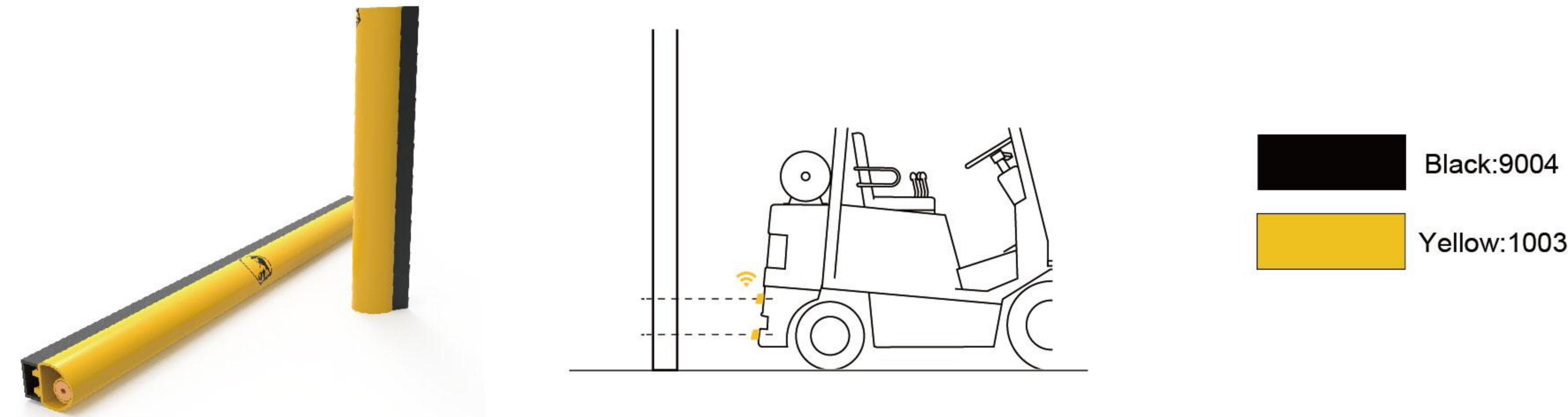
Product Introduction:

The product consists of two light strips and a touch sensor. It is usually installed 1-2 meters in front of the height limit position. When triggered, it will emit sound and light alarms. By default, it will beep 20 times and flash 30 times within one minute, but it can be configured.

Product Features

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- ✓ More suitable for use in complex environments such as clean or dusty workshops, acid-base and marine environments
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Anti-collision Edge (AE)



Model	Sensor Type	Alarm Type	Max Length of Single Safety Edge	Trigger Distance	Activation Force	Operating Temperature	Max Voltage	Max Current
AE-01	Pressure	Audible and Visual	6.1m	3~8mm	<1.8kg	-20~55°C	32V	1A

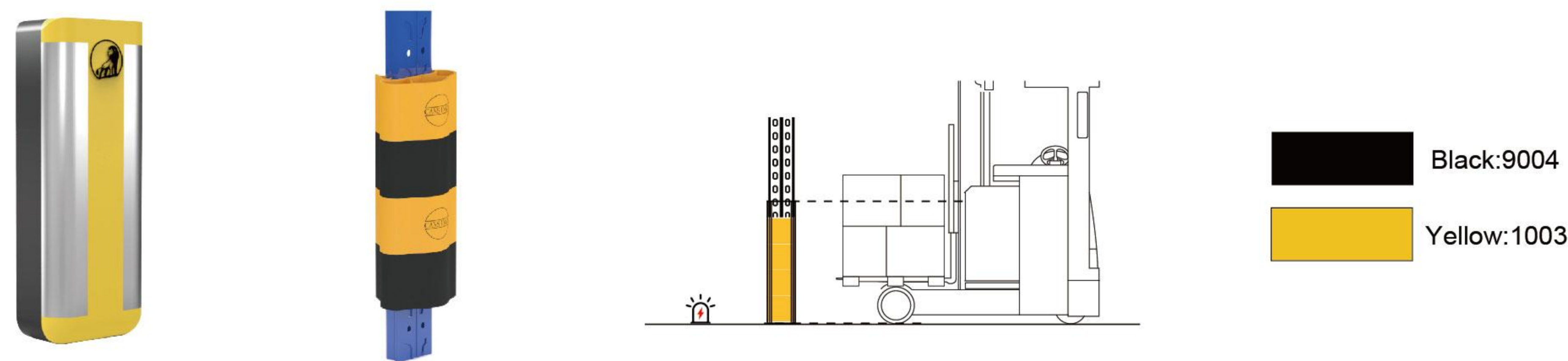
Application Scenarios:

Suitable for situations with internal safety relays that can directly disable hazardous sources, such as AGV forklifts, regular forklifts, roller shutter doors, and other scenes.

Product Features

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Collision Warning System (SWC)



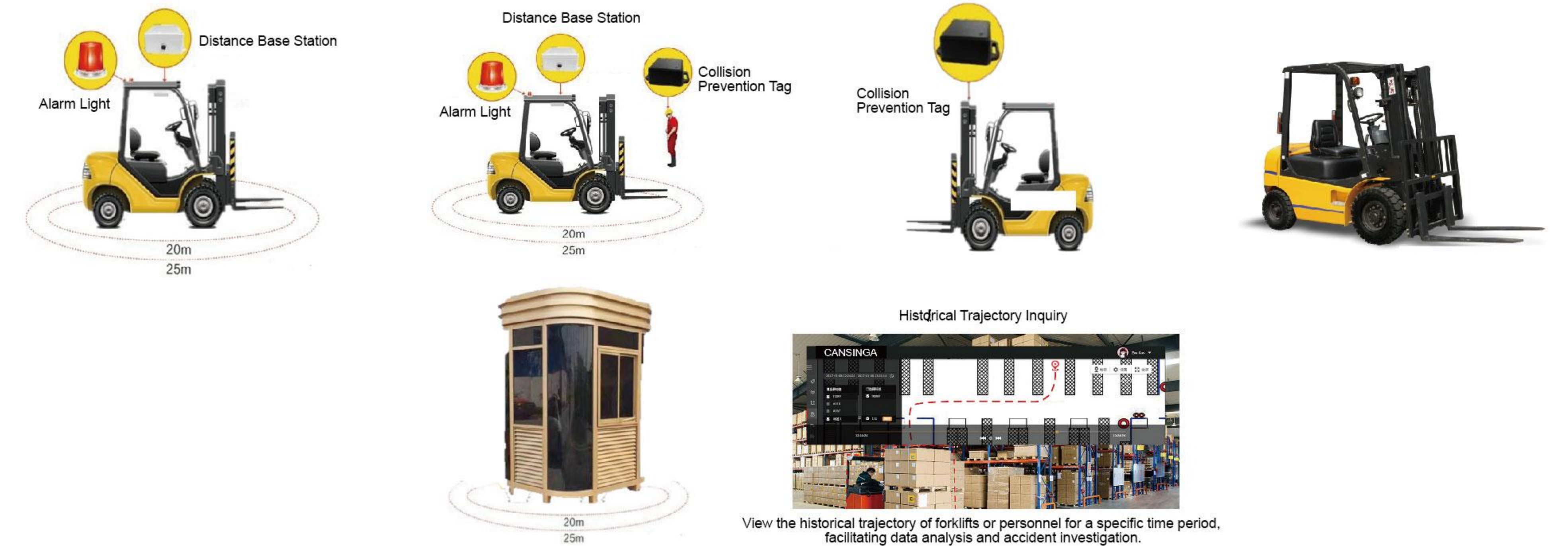
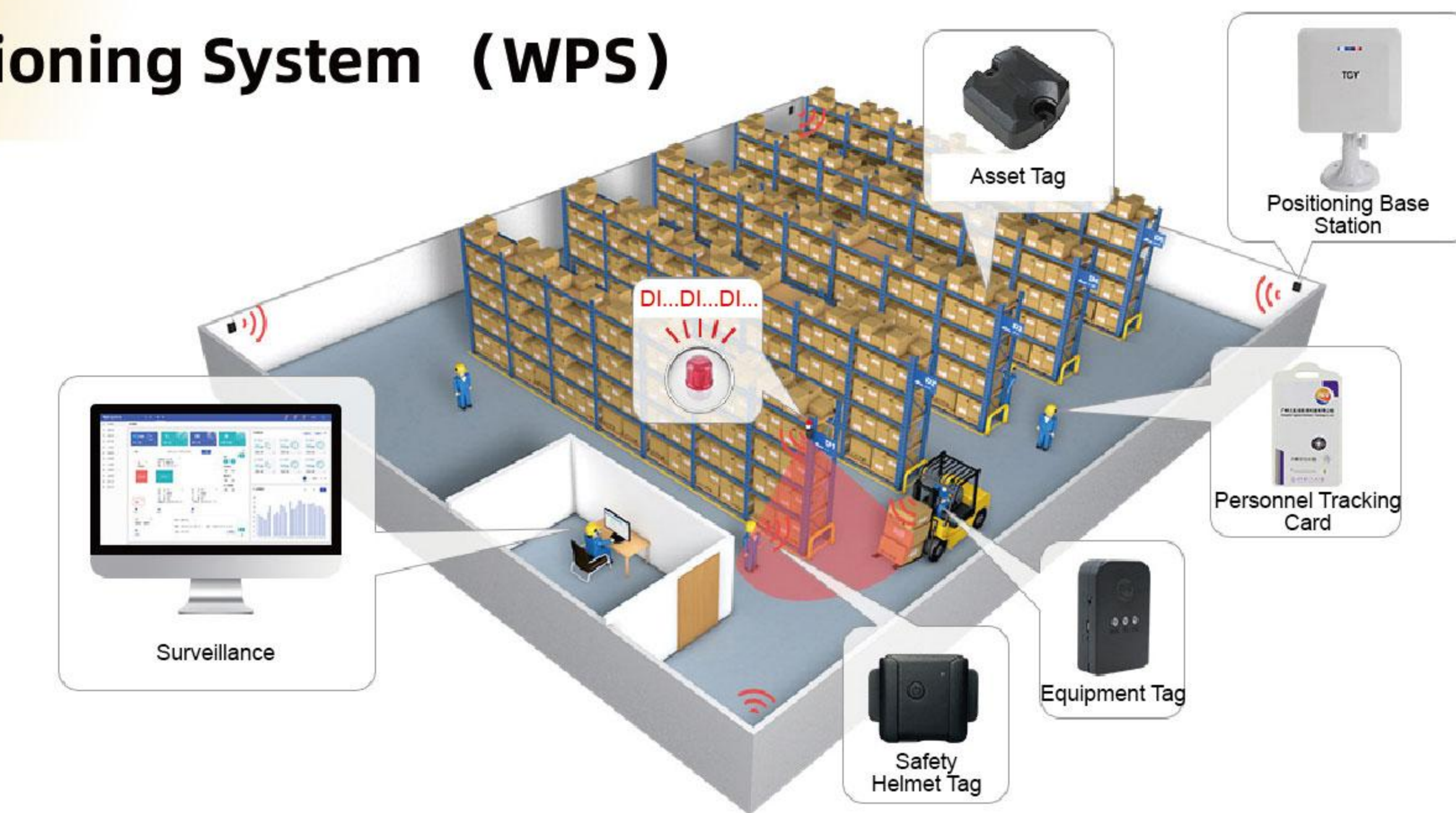
Model	Sensor Type	Alarm Type	Sensing Range	Installation Height	Installation Type	Position
CWS-01	Infrared	Audible and Visual	3500-7500	1500-2000	Magnetic Attraction	Shelf Column
CWS-02	Pressure	Audible and Visual	-	300-500	Customizable Clamping	Shelf Leg

Product Introduction:

CWS-01: This device is a distance sensing type, usually installed at the corner of the intersection of shelves. It operates after turning on the switch. When there is a pedestrian on one side, the light will not flash. When there are pedestrians or forklifts on both sides, the light will flash and the horn will sound. It is easy to install, unload, and adjust the height as needed. Battery life: Generally lasts for 4 months on a full charge.

CWS-02: This device is an alarm type that activates after a forklift collision. It is applied to warehouse shelves and is designed to alert workers by sounding an alarm when a forklift collides with the rack guard, prompting them to inspect the shelves. It serves as an active protective measure.

Warehouse Positioning System (WPS)



Based on UWB (Ultra-Wideband) technology, it can be used to measure the relative distance between objects, achieving collision prevention between people and vehicles, vehicles and vehicles, and vehicles and objects. The sound and light alarm can alert personnel and forklifts to slow down, ensuring the safety of both personnel and forklifts. Additionally, it can provide real-time positioning of personnel, forklifts, and goods.

	Type: Positioning Base Station	Interface: 12VDC/POE/Debugging Interface/Reset Interface	Positioning Accuracy: 10 ~ 30cm
	Size: 200*45mm	Distance: >200米@6.8Mbps	Stor.temp: -40°C ~ 80°C
	Positioning: UWB-TDOA/TOF	Oper.temp: -30°C ~ 70°C	
	Use: Indoor		
	Type: Vehicle Tag	Interface: 12VDC	Positioning Accuracy: <10cm
	Size: 150mm*90mm*55mm φ96mm h157mm	Distance: >200m@6.8Mbps	Ingress Protection: IP67 (Waterproof and Sealed)
	Positioning: UWB	Oper.temp: -30°C ~ 70°C	
	Use: The forks		
	Type: Card Tag	Runtime: 3-6mth (1Hz)	Positioning Accuracy: 40g
	Size: 90mm*55mm*7.5mm	Charge Port: Magnetic Charging	Ingress Protection: IP67 (Waterproof and Sealed)
	Power Type: Rechargeable Lithium Battery	Oper.temp: -20°C ~ 70°C	
	Use: LED Buzzer Vibration Alert SOS Alarm Smart Card Message Delivery (Supports QR Code) Low Battery Reminder		
	Type: Asset Tag	Runtime: 3-6mth (1Hz)	Positioning Accuracy: 35g
	Size: 50mm*36mm*20mm	Charge Port: Micro-USB	Ingress Protection: IP65 (Dustproof and Splash-resistant)
	Positioning Accuracy: Rechargeable Lithium Battery	Oper.temp: -30°C~70°C	
	Use: LED Vibration Alert (Optional) Smart Card (Optional)		