TRAFFIC

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ENTERPRISE

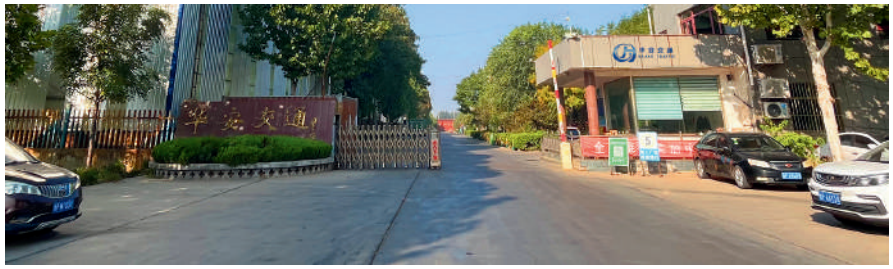
PROFILE

SINCE 1996	50+	$15 MILLION	20+
EXPORT COUNTRY	RESEARCH HISTORY	INVESTMENT	R& D TEAM PEOPLE

Shandong Guanxian HuaAn Traffic Facilities Co., Ltd. (hereinafter referred to as "HuaAn Traffic"), is a leading manufacturer and supplier of high-quality road safety guardrail systems, dedicated to providing safety and security solutions for infrastructure, transportation, and industrial applications worldwide.

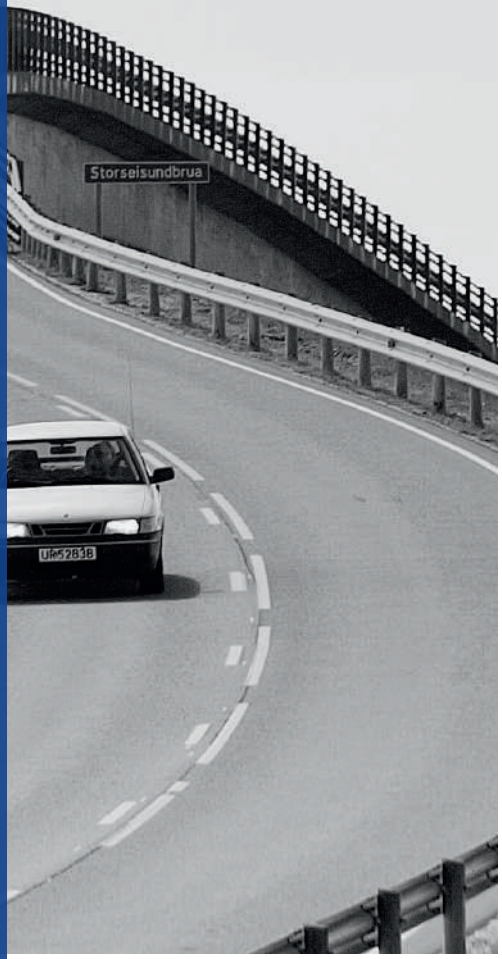
With a strong commitment to innovation, quality, and customer satisfaction, our company integrates advanced manufacturing technologies with stringent quality control processes. We specialize in the research, development, production, and sales of various guardrail products designed to meet international safety standards.

The factory is located in Guanxian, Shandong province China. This is the largest guardrail production base in China. HuaAn Traffic originated in 1996 and developed from a one production unit of guardrail accessories to a local industry leader.



Our main products are highway guardrails, street lamp poles, traffic sign poles, crash pads and wire mesh. The company's production technology can meet the requirements of American standard AASHTO M180, European standard CE EN1317 and China standard GB/T 31439.1 -.2.

The company has a huge team of engineers to design and develop, and about 2-3 new products can be developed every year, and more than 20-30 new steel structural parts are produced every year.



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Business Philosophy:
gather a group of good people and do a good deed.

Corporate Values:
collaboration, creation and commitment.

Core Values:
Satisfy custamers and make employees happy.

Global Vision:
Meeting Unique Needs Across Regions.

Social Responsibility:
Making a Positive Impact on Society.

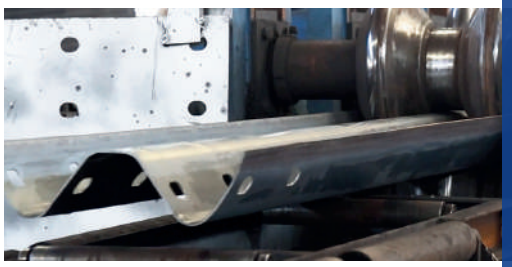




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A new factory was established in 2008, followed by the successive investment and construction of molding production lines, pipe cutting production lines, and hot-dip galvanizing production lines, achieving an annual comprehensive production capacity of 100,000 tons. The company provides high-quality products to various sectors of society through advanced production techniques, reliable credibility, superior products, comprehensive testing methods, and dedicated after-sales service.

EN1317 Standards
EN ISO 1461

TABLE 1 : CONTAINMENT LEVEL

Containment Level	Low Angle Containment			Normal Containment		Higher Containment					Very High Containment			
	T1	T2	T3	N1	N2	H1	L1	H2	L2	H3	L3	H4a	H4b	L4a	L4b

TABLE 2 : WORKING WIDTH LEVELS

Working Width Level	W1	W2	W3	W4	W5	W6	W7	W8
	W≦0.6	W≦0.8	W≦1.0	W≦1.3	W≦1.7	W≦2.1	W≦2.5	W≦3.5

TABLE 3: ASI CLASS

Acceleration Severity Index	A	B	C
	ASI≦1.0	1.0<ASI≦1.4	1.4<ASI≦1.9

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TABLE 4: SAFETY BARRIER TEST PARAMETERS

Containment level	PARAMETERS			
	Safety barrier includingvehicle parapet andvehicle behaviour	Impact severitylevel ASI-THIV	Vehicledeformation (VCDI)	Safety barrier includingvehicle parapetdeformation
T1	TB 21	TB 21	TB 21	TB 21
T2	TB 22	TB 22	TB 22	TB 22
T3	TB 41+TB 21	TB 21	TB 21	TB 41+TB 21
N1	TB 31	TB 31	TB 31	TB 31
N2	TB 32+TB 11	TB 32+TB 11a	TB 32+TB 11	TB 32+TB11
H1	TB 42+TB 11	TB 11	TB 11	TB 42+TB11
H2	TB 51+TB 11	TB 11	TB 11	TB 51+TB11
H3	TB 61+TB11	TB 11	TB 11	TB61+TB11
H4a	TB 71+TB 11	TB 11	TB 11	TB71+TB11
H4b	TB 81+TB11	TB 11	TB 11	TB81+TB11
L1	TB42+TB32+TB11	TB 32+TB 11a	TB 32+TB 11	TB 42+TB32+TB11
L2	TB51+TB32+TB11	TB 32+TB 11a	TB 32+TB 11	TB51+TB32+TB11
L3	TB61+TB32+TB11	TB 32+TB 11a	TB32+TB 11	TB61+TB32+TB11
L4a	TB71+TB32+TB11	TB 32+TB 11a	TB 32+TB 11	TB71+TB32+TB11
L4b	TB81+TB32+TB11	TB 32+TB 11a	TB 32+TB 11	TB81+TB32+TB11

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HUAAN Products

HuaAn-H1W3



Containment Level:	H1W3
Working Width:	W3 ≦1.0m
ASI:	A
Post Distance:	2.0 m

HuaAn-H1W2



Containment Level:	H1W2
Working Width:	W2 ≦0.8m
ASI:	B
Post Distance:	1.5 m

HuaAn-H1W4



Containment Level:	H1W4
Working Width:	W4 ≦1.3m
ASI:	A
Post Distance:	1.3 m

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HUAAN Products

HuaAn-H2W3



Containment Level:	H2W3
Working Width:	W3 ≦1.0m
ASI:	B
Post Distance:	1.5 m

HuaAn-H2W2



Containment Level:	H2W2
Working Width:	W2 ≦0.8m
ASI:	A
Post Distance:	1.5 m

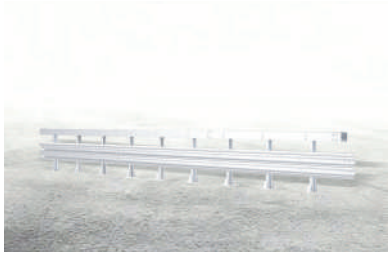
HuaAn-H2W4



Containment Level:	H2W4
Working Width:	W4 ≦1.3m
ASI:	B
Post Distance:	2.0 m

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HuaAn-H4B



Containment Level:	H4B
Working Width:	W4 ≦1.3m
ASI:	B
Post Distance:	2.0 m

Finished Product Display











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Road restraint systems : Performance classes & impact test

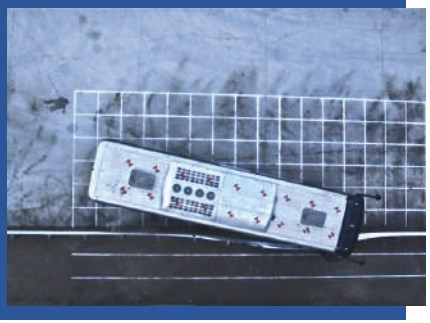












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AASHTO M180

TABLE 1 : AASHTO M180 Technical Term-A

Type	Material
Type I	Zinc Coated, 550g/m²(1.80 oz/ft²) minimum single-spot
Type II	Zinc Coated, 1100 g/m² (3.60 oz/ft²) minimum single-spot
Type III	Beams to be painted
Type IV	Beams of corrosion resistant steel

TABLE 2 : AASHTO M180 Technical Term-B

Class	Base Mental Nominal Thickness
Class A	2.67 mm(0.105 in.)
Class B	3.43 mm(0.135 in.)

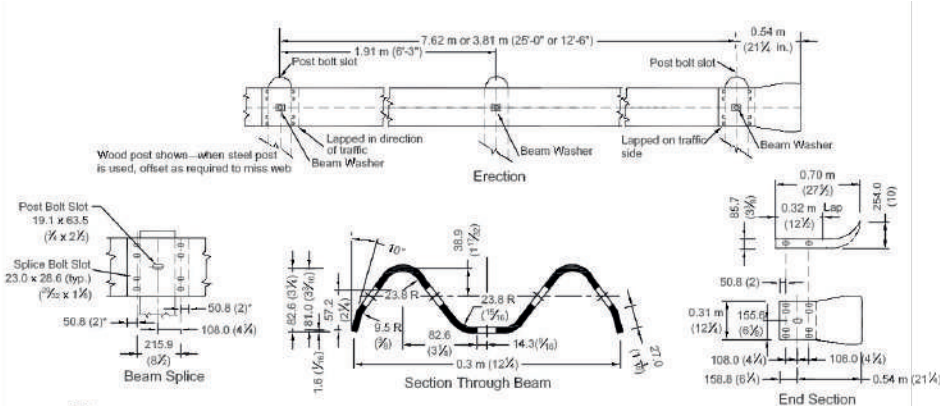
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TABLE 3 : AASHTO M180 Technical Term-C

MASH Test Level	Test Vehicle	Speed (km/h)	Angle(degrees)
1	1100kg Passenger Car	50	25
	2270kg Pick-Up Truck	50	25
2	1100kg Passenger Car	70	25
	2270kg Pick-Up Truck	70	25
3	1100kg Passenger Car	100	25
	2270kg Pick-Up Truck	100	25
4	1100kg Passenger Car	100	25
	2270kg Pick-Up Truck	100	25
	10,000kg Rigid Truck	100	15
5	1100kg Passenger Car	100	25
	2270kg Pick-Up Truck	100	25
	36,000kg Tractor-Van Trailer	80	15
6	1100kg Passenger Car	100	25
	2270kg Pick-Up Truck	100	25
	36,000kg Tractor-Van Trailer	80	15

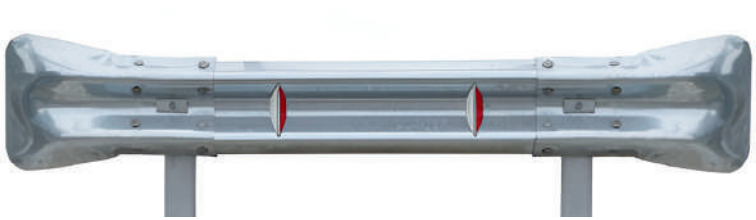
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HA-TL 3 : AASHTO M 180 CLASS A TYPE II (Drawings)

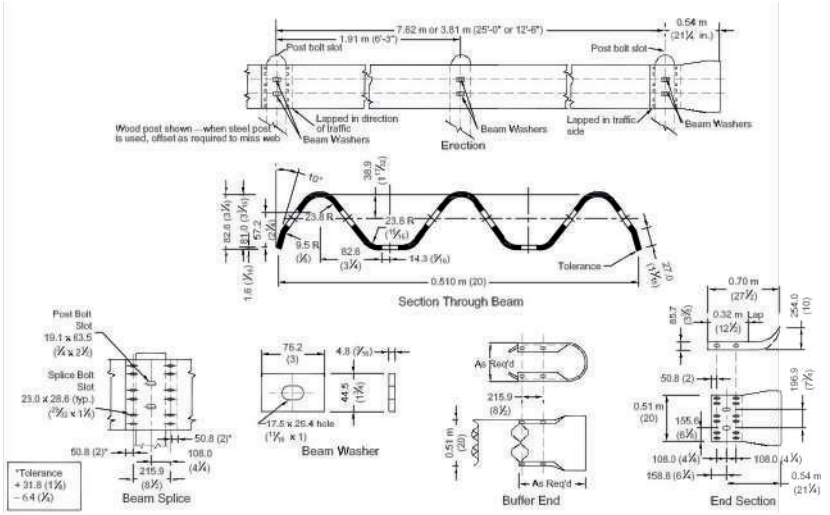


Finished Product Display





HA-TL 4: AASHTO M 180 CLASS B TYPE II (Drawings)



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GB/T 31439.2025
GB/T 18226-2025

TABLE 1 : GB Standard Technical Term

Protection level	1	2	3	4	5	6	7	8
Code	C	B	A	SB	SA	SS	HB	HA
Design protective energy (KJ)	40	70	160	280	400	520	640	760



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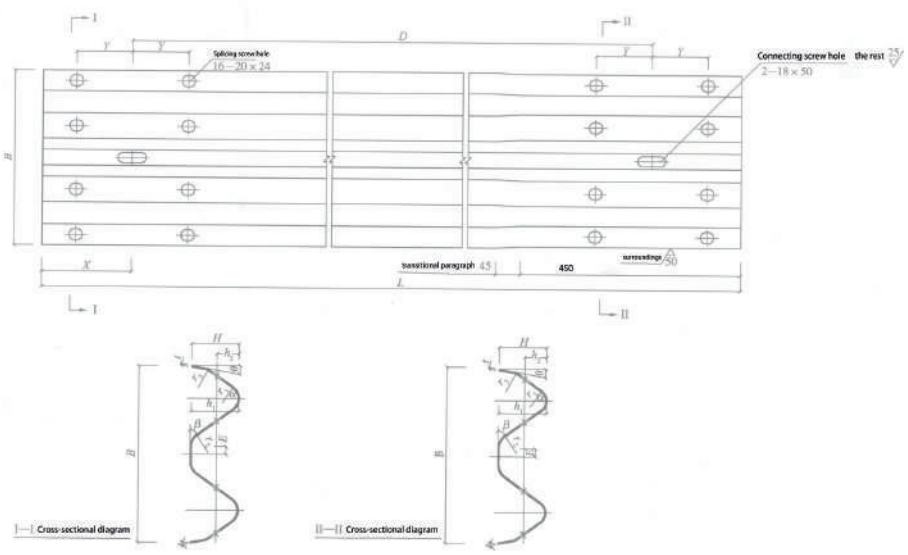
TABLE 2 : Design of highway barrier (JTG B05-01-2013 standard)

Protection level	Code	Barrier (mm)	Post (mm)	Spacer/ blockout (mm)	Up Rail (mm)	Height of barrier (mm)	Buried depth of Post (mm)	Post distance (mm) Soil / Concrete
NEW	D	310*85*2.0	89*4.0	300*70*4.5	—	600	1200	4000/2000
1	C	310*85*2.5	φ114*4.5	300*70*4.5	—	600	1400	4000/2000
2	B	310*85*3	φ114*4.5	300*70*4.5	—	600	1400	2000/1000
3	A	506*85*3	φ140*4.5	196*178*400*4.5	—	697	1400	4000/2000
		506*85*4	φ140*4.5	300*270*35*6	—	697	1650	4000/2000
4	SB	506*85*4	φ130*130*6	300*200*290*4.5	—	697	1650	2000/1000
5	SA	506*85*4	φ130*130*6 and φ102*4.5	300*200*290*4.5	φ89*5.5	697	1650	3000/1500
6	SS	506*85*4	φ130*130*6 and φ102*4.5	350*200*290*4.5	φ89*5.5	697	1650	2000/1000
7	HB	506*85*4	φ130*130*6 and φ102*4.5	400*200*290*4.5	φ89*5.5	697	1650	2000/1000



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GB/T 31439.1—2025

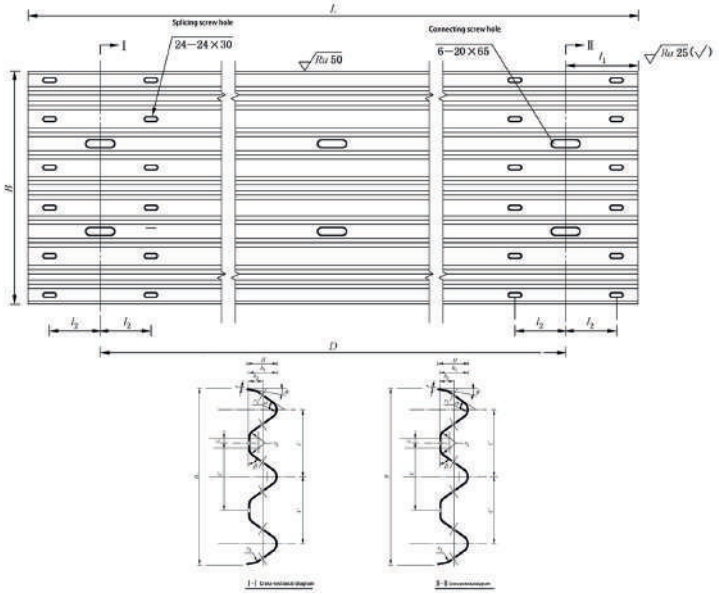


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GB/T 31439.2—2025



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More Standard

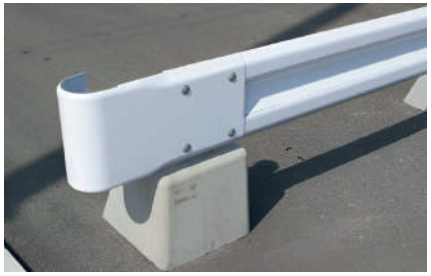
Russian GOST 33129-2024 Standard Finished Products





Other standard we can make:
Australia AZ/NZS 3845-1999 Road safety barrier system
South Africa SANS 1350:2005 Road for guardrail (W Section)





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Rail Terminal Energy Absorption Systems

Rail Terminal Energy Absorption Systems are designed to absorb and dissipate energy during collisions or sudden impacts. The unique slotted rail design, combined with energy-absorbing materials, ensures a controlled and effective response to impact forces.

While guardrails are meant to protect drivers from roadside hazards, they themselves can become a hazard, especially at the end, where the guardrail is secured with a rigid anchor, and the narrow, relatively sharp end of the guardrail is exposed to impacting vehicles. Guardrail terminals are the critical components at the beginning and end of a guardrail system, particularly those located within the clear zone for approaching traffic. Their purpose is to anchor the guardrail for redirectional impacts while minimizing the severity of a direct impact.

Finished Product Display







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Characteristics

Product Overview



Characteristics

The fence is composed of bent guardrail mesh panels connected to upright posts.It boasts strong decorative features, elegant and beautiful appearance, as well as solid security against theft.

Since the shape of the post posts of this fence is a regular semi-oval, resembling a peach, it is called a peach-shaped post.

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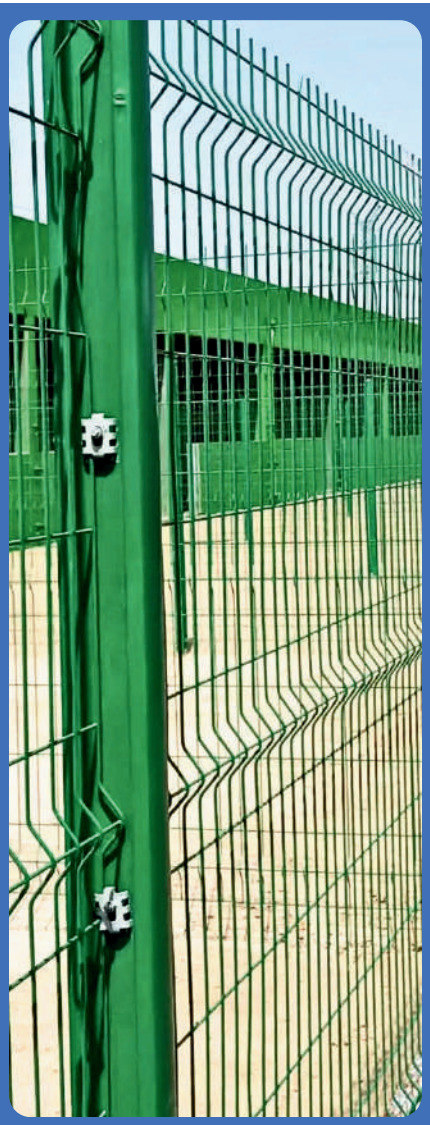
Technical Specifications

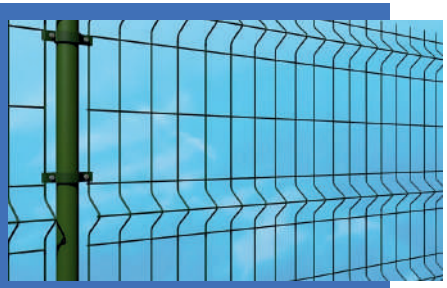
Hole Size	50*50mm,50*100mm,50*150mm,50*200mm,55*200mm 75*150mm
Wire Size	3mm,3.5mm,4mm,4.5mm,5mm
Width	1-2.5m
Height and Folding number	630mm,830mm,1030mm,1230mm,1430mm has 2 folds
	1530mm,1630mm,1730mm,1830mm,1930mm has 3 folds
	2030mm,2230mm has 4 folds
Round Post(mm)	48*1.5/2,60*1.5/2
Square Post(mm)	50*50*1.5/2，60*60*1.5/2, 80*80*1.5/2
Rectangular Post(mm)	40*60*1.5/2，40*80*1.5/2，60*80*1.5/2，80*100*1.5/2

NOTE:All the specifications mentioned above can be customized according to demand.

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Usage Scenario

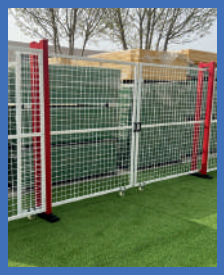














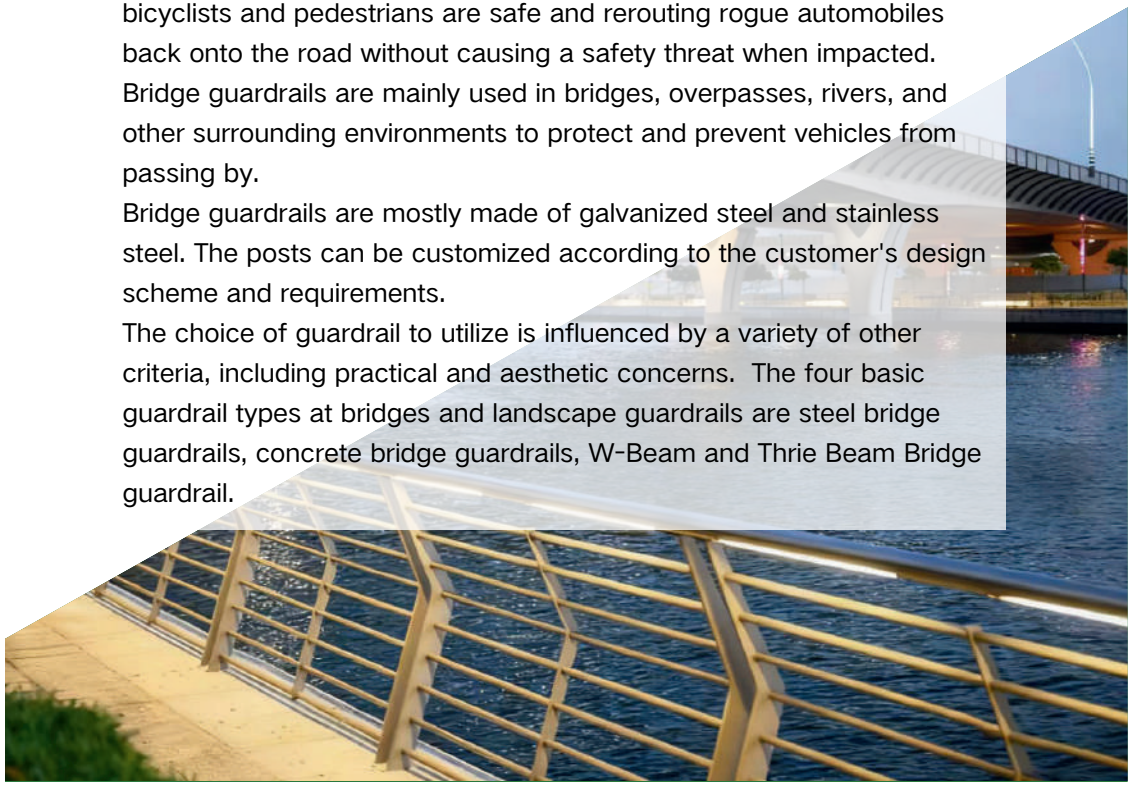
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Bridge Guardrail

The main purpose of a bridge guardrail system is to ensure public safety along the entire length and sides of the bridge. It entails ensuring that bicyclists and pedestrians are safe and rerouting rogue automobiles back onto the road without causing a safety threat when impacted. Bridge guardrails are mainly used in bridges, overpasses, rivers, and other surrounding environments to protect and prevent vehicles from passing by.

Bridge guardrails are mostly made of galvanized steel and stainless steel. The posts can be customized according to the customer's design scheme and requirements.

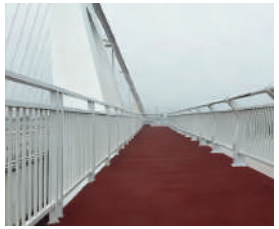
The choice of guardrail to utilize is influenced by a variety of other criteria, including practical and aesthetic concerns. The four basic guardrail types at bridges and landscape guardrails are steel bridge guardrails, concrete bridge guardrails, W-Beam and Thrie Beam Bridge guardrail.



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Technical Specifications

Product name	Riverside Lake Safety Anti-Falling Anti-Collision Isolation Traffic Barrier Handrail Bridge and Landscape Guardrail Guardrail
Material	Stainless steel, galvanized carbon steel
Surface treatment	Spray paint, plastic spray, hot dip galvanized
Process	Sawing machine: laser cutting, made of high-quality steel, acid and alkali resistant and not easy to rust Welding: tight welding Spraying: Color can be customized according to customer requirements
Installation method	Welding steel plate columns or connecting with expansion screws
Ground installation method	Direct embedded type, embedded parts assembly and fixation
Usage scenarios	Bridges, rivers/landscape guardrails







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Crash cushions

Product Overview

Crash cushions are advanced road safety devices, designed for use on highways, urban expressways, toll stations, tunnel entrances, and bridge piers. With specially engineered structures and energy-absorbing materials, they effectively absorb and dissipate collision forces, minimizing casualties and property losses in traffic accidents.

Redirectable crash cushions are essential safety features for highways. They are installed at intersections, bridge piers, and highway entrances and exits, all prone to traffic accidents. These products provide dual functions: cushioning and absorbing energy in head-on collisions, and guiding vehicles in side collisions.

They absorb the impact of a collision, stopping the vehicle or redirecting it back to its original lane, dissipating the impact force and ensuring the safety of drivers and passengers. They also minimize damage to the vehicle and other road infrastructure, reducing the risk of secondary collisions caused by the vehicle's rebound force.

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Functions & Advantages

TABLE 1 : High-efficiency energy absorption

High energy absorption through combined steel structure and buffer materials.

TABLE 2 : Multiple protections

Protects against impacts from multiple directions and speeds.

TABLE 3 : Modular design

Modular design for easy replacement and maintenance.

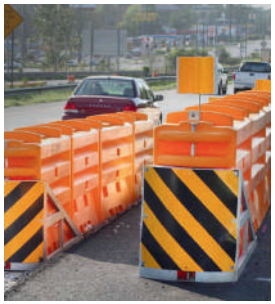
TABLE 4 : High applicability

Suitable for highways, urban roads, and international projects.

TABLE 5 : International certification

Compliant with EN1317, MASH, AASHTO standards







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Technical Specifications

Model	Length (mm)	Width (mm)	Height (mm)	Speed (km/h)	Standard
CC-80	4200	800	850	80	EN1317 / MASH TL-2
CC-100	6200	1000	900	100	EN1317 / MASH TL-3
CC-120	7800	1100	1000	120	EN1317 / MASH TL-4

Application Scenarios



Diverging islands on highways



Toll plaza entrances and exits



Bridge piers



Tunnel entrances



Hazardous sections of urban expressways

Roller Barrier

Product Overview



The Roller Barrier is an innovative road safety system combining guardrails with rotating rollers. During a collision, the rollers rotate to dissipate impact energy, converting the crash force into rotational energy while guiding the vehicle back to its correct trajectory, thereby minimizing casualties and property losses.

Structure & Working Principle

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MAIN COMPONENTS:

Hot-dip galvanized steel posts | High-strength steel beams
HDPE/PU energy-absorbing rollers | Connectors and fasteners

PRINCIPLE:

WHEN IMPACTED, ROLLERS ROTATE TO ABSORB ENERGY → DISPERSE FORCE → REDIRECT THE VEHICLE → PREVENT SECONDARY ACCIDENTS



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Product - Single Roller Barrier

Single Roller Barrier

• INTRODUCTION

The single-barrel roller barrier utilizes a structural design with a single row of rollers installed at each column position. It is primarily used for medium to low-speed road sections and general hazardous curves, providing effective energy absorption and reliable vehicle redirecting capabilities.

• FEATURES

Simple structure, easy to install	Cost-effective, suitable for budget-sensitive projects
Prevents vehicles from running off the road	Applicable design speed: 60 – 80 km/h

• TECHNICAL SPECIFICATIONS

Item	Roller Diameter	Rollers per Row	Post Spacing	Design Speed
Parameter	350 – 400 mm	1	1000 – 1200 mm	⩽ 80 km/h

• APPLICATIONS



Urban road medians



Low-speed ramps & exits



Mountain roads with moderate curves

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Product - Double Roller Barrier

Double Roller Barrier

• INTRODUCTION

The double-barrel roller barrier features a structural design with two rows of rollers at each column position, offering enhanced energy absorption and vehicle redirecting capabilities. It is commonly used on high-speed road sections and hazardous intersections, making it suitable for heavy-duty vehicles and high-impact scenarios.

• FEATURES

Double rows of rollers for enhanced cushioning effect	Handles higher impact forces, ideal for highways
Suitable for roads with high heavy-vehicle traffic	Applicable design speed: 80 – 120 km/h

• TECHNICAL SPECIFICATIONS

Item	Roller Diameter	Rollers per Row	Post Spacing	Design Speed
Parameter	400 – 500 mm	2	1000 – 1500 mm	⩽ 120 km/h

• APPLICATIONS



Highway sharp curves



Bridge approaches



Toll plaza exits

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Street Light Pole

Product Overview



As a core part of urban lighting systems, our street light poles blend functionality and aesthetics. We offer tapered, polygonal, and custom landscape poles, adapting to municipal roads, scenic spots, rural areas, and smart city zones. All poles support customization (height, material, color, and add-ons like cameras/charging piles).

Core Advantages

TABLE 1 : Quality Materials

Q235/Q355 steel (wind-resistant, 15-20-year life) or 6063-T5/T6 aluminum (lightweight, corrosion-proof, 25+-year life), meeting national standards.

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TABLE 2 : Precision Craftsmanship

CNC forming (straightness ⩽1mm/m), 4-layer anti-corrosion (hot-dip galvanizing + powder coating), and sealed tops/reserved holes for easy installation.

TABLE 3 : Scenario Adaptability

8-12m steel poles for municipal roads, 6-8m lightweight poles for rural areas, custom aluminum landscape poles for scenic spots, and smart poles with 5G/charging functions.

TABLE 4 : Full-Service Support

Pre-sales design, in-sales progress updates, and 1-3-year warranties (1 year for steel, 3 for aluminum).









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Key Technical Parameters

Type	Material	Height	Bottom Diameter	Wind Resistance	Life Span
Municipal Steel Pole	Q235/Q355 Steel	8-12m	180-240mm	≤Level 12	15-20yrs
Rural Light Pole	Q235 Steel/aluminum	6-8m	140-180mm	≤Level 10	12-25yrs
Smart Pole	Q355 Steel/aluminum	8-15m	200-300mm	≤Level 12	15-25yrs

Application Cases

TABLE 1 : Municipal Upgrade

10m Q355 steel poles (coastal anti-corrosion) for urban roads, passing level-12 wind tests

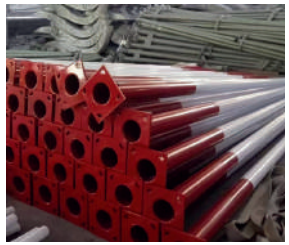
TABLE 2 : Scenic Spot Project

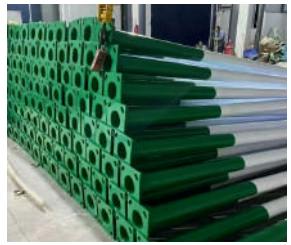
6m custom aluminum landscape poles (wood-grain finish) matching Chinese-style architecture.





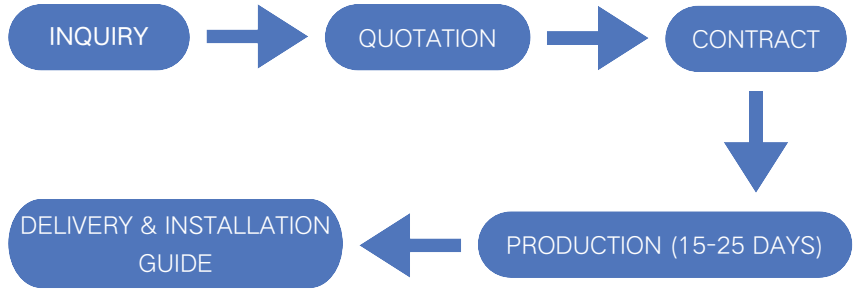
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Cooperation

Process



COMMITMENT

Quality certificates provided; losses from defects covered

SUPPORT

Bulk discounts and priority scheduling for long-term partners.

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Qualification



BUSINESS LICENSE



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Customers visit Company



Hua'An Traffic has always focused on quality control and technology research and development, actively aligning with the world. Since the establishment of the company, hundreds of customers have visited and inspected the Hua'An factory, and established long-term and stable cooperative relationships.











