

HUILANG FASTENER

Tunnel Segment Bolts & Engineered Fasteners

Export Catalogue 2026

Huilang Fastener Manufacturing Co., Ltd.

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About Huilang

Huilang is an export-focused fastener company working with an ISO-certified manufacturing partner in Yongnian, Hebei — China's fastener production cluster. The partner plant was founded in 2010, covers more than 50 mu (about 3.3 hectares) and runs forging, thread rolling, heat treatment, hot-dip galvanizing, Dacromet, sherardizing and testing under one roof.

Key facts

- Founded 2010; registered capital RMB 70 million; 50+ mu plant in Yongnian, Handan
- ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 management systems
- Three hot-dip galvanizing lines, one Dacromet line, two sherardizing lines, heat treatment and anti-alkali coating
- In-house laboratory: tensile tester, hardness tester, salt-spray chamber, coating thickness gauge
- Supplier to metro, high-speed rail and utility-tunnel projects in 20+ Chinese cities
- Export documents: commercial invoice, packing list, certificate of origin; fumigated pallets

Our role is to make specification, quotation, production follow-up and export documentation simple for overseas buyers: one contact, one drawing revision, one delivery date.

Tunnel Segment Bolts

Curved (arc) and longitudinal bolts connect precast segments into a ring and transfer loads between rings. Bolts are made to the segment drawing: bending radius, thread length, head shape and coating are confirmed before production.

Range

Type	Size	Grade	Material	Coating
Double-head straight	M6–M120	5.8–12.9	Q235 / 45# / 40Cr / 35CrMoA / 42CrMo	Hot-dip, Dacromet, sherardized, zinc-flake, anti-alkali
Double-head curved	M24–M48	5.8–12.9	As above	As above
Hex-head curved	M24–M36	5.8–12.9	As above	As above
Hex-head / flange arc-thread	To drawing	To drawing	To drawing	To drawing
Non-standard	To drawing	To drawing	To drawing	To drawing



Mechanical properties (selected grades)

Property	8.8	10.9
Tensile strength Rm, min (MPa)	830	1,040
Yield strength Rp0.2, min (MPa)	640	940
Proof stress Sp, min (MPa)	600	830
Elongation A, min (%)	12	9
Hardness	250–335 HV	320–380 HV

Channels, High-Strength Bolts and Embedded Parts

Cast-in channels and T-bolts

C-profile channels 38/23, 38/17, 49/30 and 53/34 with T-bolts, anchor bars and end caps, in Q235B, 304 or 316, hot-dip galvanized. Used for tunnel services, cable trays, pipe supports and facade brackets.



High-strength bolts and connection sets

Grade 8.8 and 10.9 large-hex and tension-control bolts, M16–M36, to GB/T, DIN, ISO or ASTM, with matched nuts and washers, torque coefficient verification and material certificates.

Embedded parts and stamping parts

Anchor plates, anchor bars, U-bolts, sound-barrier embedments and pressed brackets made to drawing. Material Q235B, 45# or 40Cr; welding and NDT on request.



Surface Treatment

The coating is what survives after the bolt is buried. Coating is selected for humidity, chloride exposure and design life — and for high-strength grades, to avoid hydrogen embrittlement.

Coating	Thickness	Salt spray	Hydrogen risk	Best for
Hot-dip galvanizing	45–85 µm typical	Good	Low	Wet tunnels, outdoor
Dacromet / zinc-flake	5–12 µm	Very good	Low	High-strength bolts
Sherardizing	Medium	Good	Low	Fasteners, complex shapes
Electroplating (white zinc)	Thin	Moderate	Higher — baking required	Indoor / dry

Tests: salt spray to GB/T 10125 / ISO 9227; coating thickness by magnetic gauge; material certificates to EN 10204 3.1; hydrogen embrittlement testing to ISO 15330 on request. Coating route and thickness are confirmed before production.

Quality and Inspection

Routine inspection

- Raw material certificate and heat-number traceability
- Tensile, proof load and hardness tests
- Thread gauge and dimensional inspection
- Coating thickness and salt-spray testing
- Visual and packing inspection before shipment

Third-party inspection

SGS, BV, TÜV or Intertek inspection can be arranged when the contract requires it. Material certificates, test reports and inspection plans are supplied with the documents.

Project Experience

Our manufacturing partner's fasteners have been supplied to metro, high-speed rail, utility tunnel, power and road projects in more than 20 Chinese cities, including:

Segment	Projects (anonymised)
Metro	Beijing, Tianjin, Xi'an, Zhengzhou, Jinan, Hangzhou, Nanjing, Shenzhen, Dongguan, Guangzhou, Shijiazhuang, Xiong'an
Intercity / high-speed rail	Xiong'an–Daxing airport line, Guangzhou–Foshan intercity, Suiguanshen intercity, Xiamen–Shenzhen corridor
Utility tunnel / municipal	Shenyang utility tunnel, Beijing East 6th Ring utility works
Road / expressway	Jingshen expressway, Guangzhou Lufeng project

References and project details can be shared on request under NDA. For overseas projects we support the contractor with drawings, inspection plans and export documentation.

Request a Quotation

Send a drawing or a specification list with: product type and standard, diameter and thread, length and bending radius (for curved bolts), grade and material, coating and salt-spray requirement, quantity and delivery schedule.

We reply with unit price, tooling cost where a new die is needed, lead time and open questions within 24 working hours, Monday to Saturday.

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