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# BOYOUN TUNNEL FORMWORK

SHANDONG BOYOUN HEAVY INDUSTRIES CO., LTD

http://www.boyoun.cn

## **Partners And Certificates**

#### Leaping through breakthroughs and pursuing excellence

On the basis of years of professional technology, research and development, BOYOUN heavy industries, adhering to the tenet of honesty and innovation as the soul, establishes win-win cooperation with customers, and provides more reasonable, more efficient, more economical, safer and better solution for the customers.























































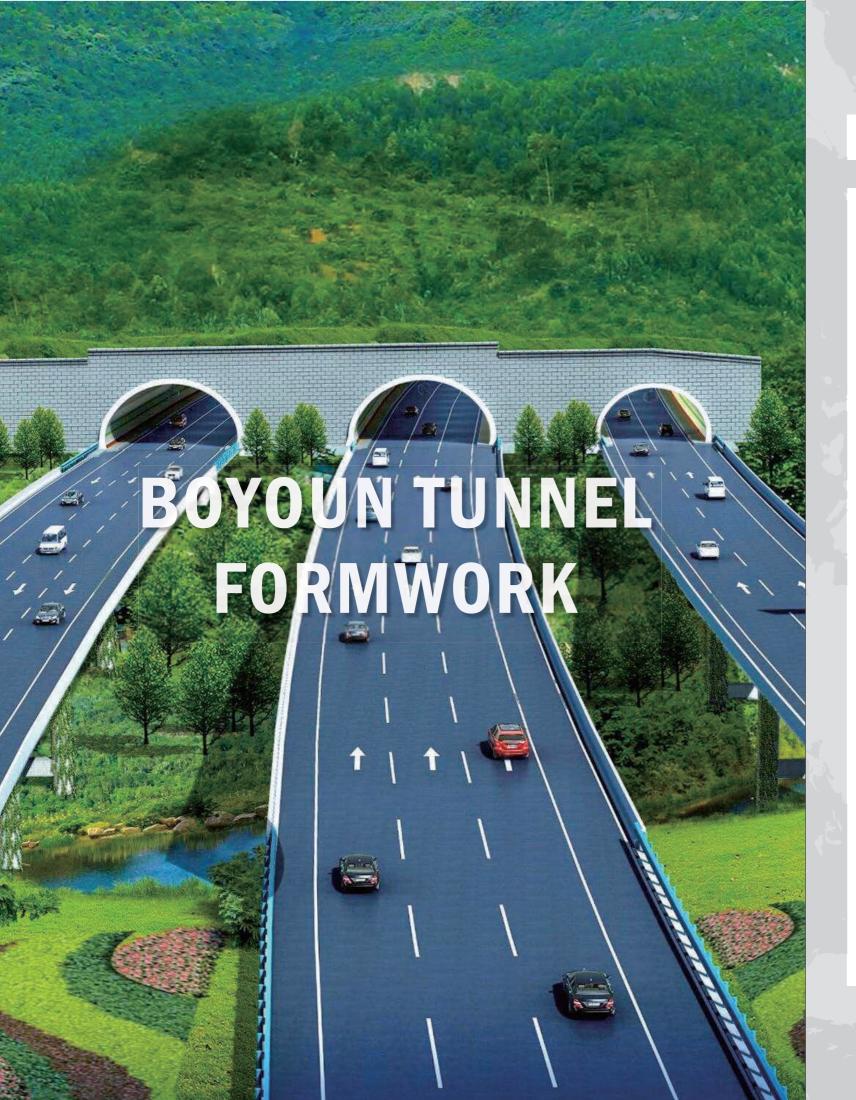
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#### **BOYOUN HEAVY INDUSTRIES**

Boyoun, founded in 2005, is one of China's leading manufacturers of formwork and scaffolding. In addition to the manufacture plant in Binzhou city, Shandong province, China, 9 rental bases across China mainland are under operation. At Boyoun we offer various formwork, climbing formwork shoring formwork and scaffolding solutions - for sale and rental - in residential and commercial high-rise construction, tunnel, bridge and road engineering.













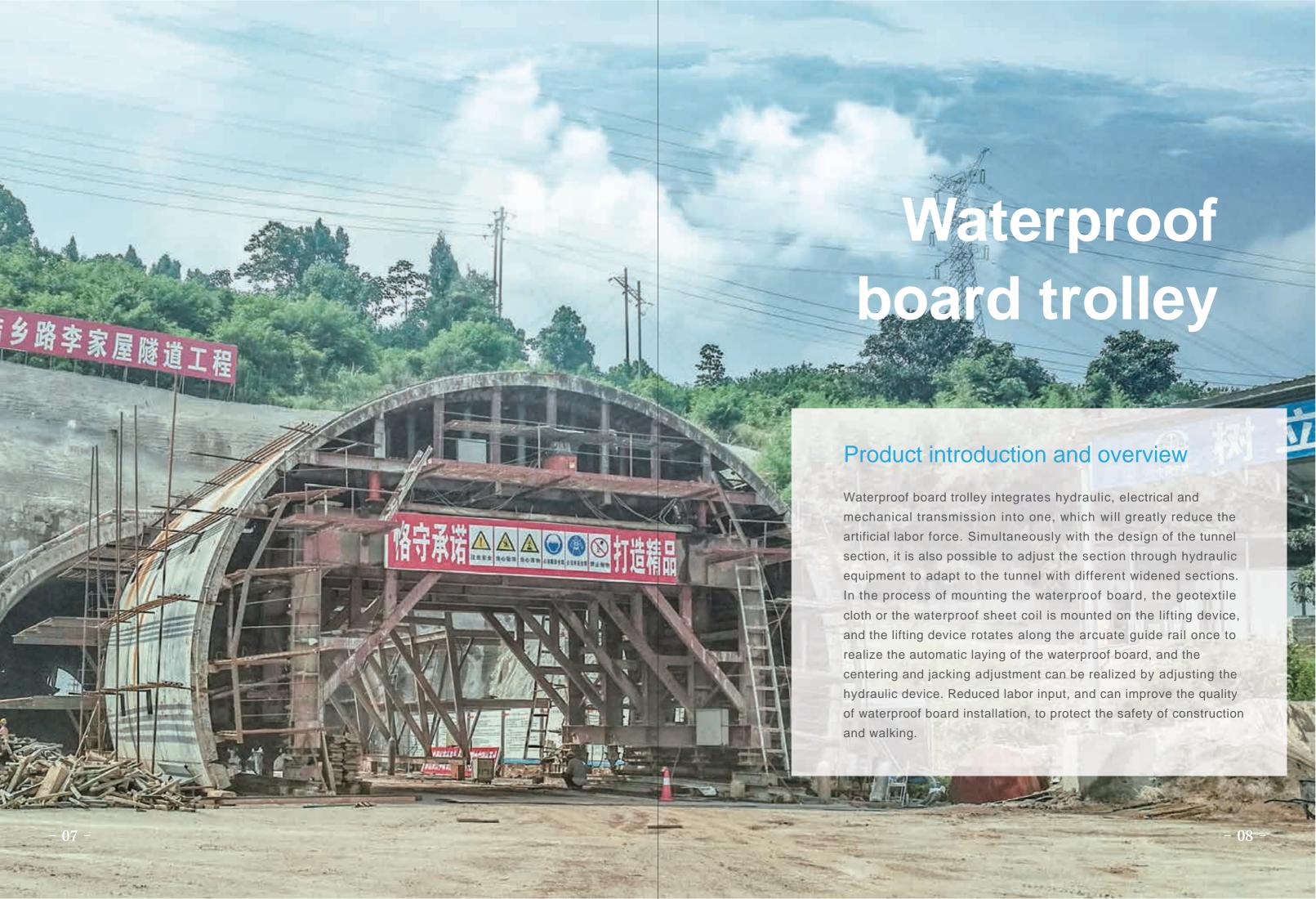
The company annually produces 50,000 tons of infrastructure equipment, owns 50,000 tons of leased materials, and supplies 100,000 tons of materials on behalf of the company; Material integration can gradually reach 100 million to 3 million tons, and achieve the integration of the market of 10 billion to 100 billion yuan; And we continue to expand to many countries rapidly, philipplines, including The United Arab Emirates, Malaysia, Singapore, Pakistan, Russia, South Africa, Brazil, America and so on.

Boyoun is constantly developing and improving, always on the lookout for advantageous, new materials and unconventional solutions. On the basis of ISO 9001 and ISO 14001, all Boyoun products comply with the most stringent requirements in terms of quality and environment.

Our international management stands for in-depth expertise. With the knowledge and understanding of local requirements, the right formwork and scaffolding systems are developed to meet all needs worldwide. Our goal is to be even closer to our customers around the world in the future and to be able to serve them better and faster.



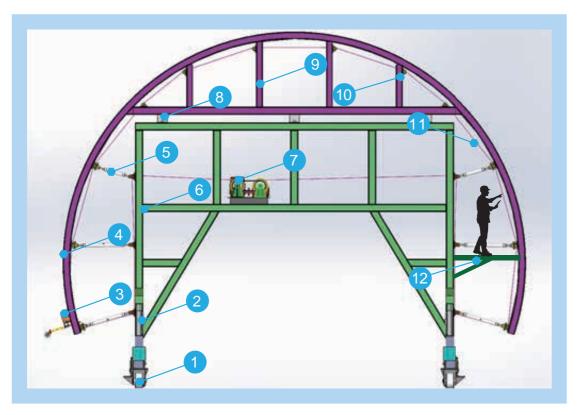


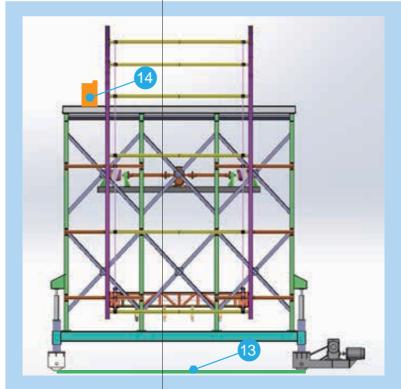


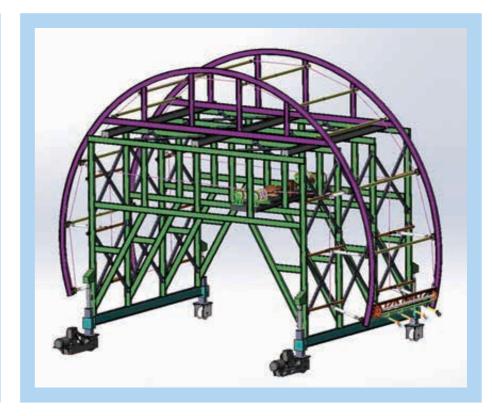


### Waterproof board trolley structure introduction

Waterproof board trolley







Serial number	1	2	3	4	5	6	7
Product name	Walking device	Lift cylinder	Lifting device	Curved rail	Support screw	Mast assembly	Hoisting mechanism
Number	4 pieces	4 pieces	1 pieces	2 teams	12 pieces	1 set	1 set
Serial number	8	9	10	11	12	13	14
Product name	Translation cylinder	Upper gantry	Guide pulley	Wire rope	Longitudinal walkway	Rails	Hydraulic power station
Number	2 pieces	1 set	1 set	4 roots	1 set	30m	1 set





# Tunnel Invert Trestle

#### Product introduction and overview

The Tunnel Invert Trestle is equipped with a walking system, hydraulic system, and an electrical system. In combination with the inverted arch formwork system, under the use of the function of the general trestle, the simultaneous pouring construction of the inverting arch and the inverting arch can be realized, thereby reducing the construction joints. Ensure the construction quality of he inverted arch.



#### Technical Parameters

Trestle length / m	36/45	Bridge width / m	3.6	Walking speed m/min	5~8	Drive power / kw	20.5
Rated pressure / Mpa	16	Input supply voltage	Three-phase AC 380V±10%, 50Hz	Trestle load rating / T	50	Effective lining length / m	9/12







#### Technical Features

- 1. The trestle bridge is connected with the back arch template and can be removed and closed by an electric hoist. Reduce the labor intensity of construction workers.
- 2. The cantilever arm of the inverted arch template can be adjusted telescopically to meet the requirements of different widened sections.
- 3. the water stop clamp can be adjusted, can be applied to lining different thickness of concrete. Ensure that the longitudinal construction joints are buried in the water stop.

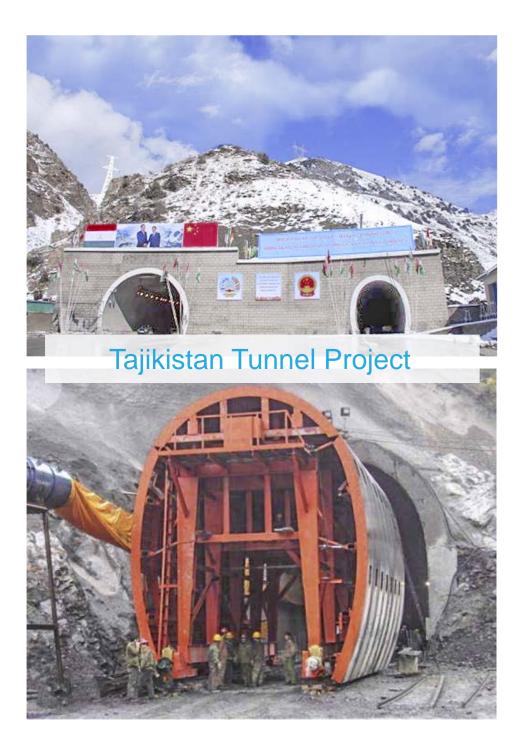
- 4. The back arch template hanger is provided with guide rails, and the back arch template can be moved back and forth along the guide rail after being lifted by the electric hoist.
- 5. The trusses on the two sides of the inverted arch formwork adopt the Bayray structure, which has stronger bearing capacity and lighter weight.
- 6. The integral screw structure of the trestle screw of our company has changed the structure of the conventional welded lug plate and greatly enhanced the strength of the screw rod.





Project case

About BOYOUN





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Serial Number	Client's Name	Product Type	Project Name	City
01	China Railway No.3 Engineering Group Co.,Ltd	Trolley	Qingdao-Guizhou Metro Line 1 Wagui Section Tunnel Engineering	Qingdao, Shandong
02	The 2th Engineering Ltd. Of The 4th Engineering Bureau Of China Railway.	Trolley, Cantilever form fraveler	Chenggui Railway Engineering	Leshan, Sichuan
03	China Railway No.5 Engineering Group Co. Ltd	Trolley, double curved pillar	Lanxin Railway Second Double Line	Qinghai Xining
04	China Railway No.6 Engineering Group Co. Ltd	Trolley, Cantilever form fraveler	Zhangjiakou-Tangshan Railway	Tangshan, Hebei
05	China Railway No.7 Engineering Group Co. Ltd	Trolley, Cantilever form fraveler	Wujiu Passenger Special (Hubei Section) Three Sections	Huangshi, Hubei
06	China Railway No.10 Engineering Group Co. Ltd	Trolley、Pier Column	Qinglian Railway Project	Qingdao, Shandong
07	China Railway No.10 Engineering Group Co. Ltd	Trolley、Pier Column	Zhang Hu Railway Engineering	Wulanchabu, Inner Mongolia
08	The 5th Engineering Ltd. Of The 11th Engineering Bureau Of China Railway.	Trolley	Kunming Junction Railway	Kunming, Yunnan
09	China Railway No.14 Engineering Group Co. Ltd	Trolley、T beam	Nanqin Railway Project	Guangxi Qinzhou
10	China Railway No.16 Engineering Group Co. Ltd	Trolley, Small box beam	Republican to Yushu Highway D7 Contract Section	Qinghai Guoluo State
11	China Railway No.16 Engineering Group Co. Ltd	Trolley、Cantilever form fraveler	Qianzhang Chang Railway Engineering	Zhangjiajie, Hunan
12	China Railway No.20 Engineering Group Co. Ltd	Trolley, Pier Column	Qingrong Intercity Railway	Yantai, Shandong
13	Sinohydro Bureau 14 Co. Ltd	Trolley, Cantilever form fraveler	Nanlong Railway 2 standard	Zhangzhou, Fujian Province
14	Xinjiang Production and Construction Corps Co., Ltd.	Trolley, Cantilever form fraveler	Keta Railway TJ-B Standard	Karamay, Xinjiang
15	Shandong Yellow River Engineering Group corporation Ltd.	Trolley, Cantilever form fraveler	Zhangzhuo Expressway Engineering	Zhangjiakou, Hebei
16	China Railway No.21 Engineering Group Co. Ltd	Trolley、Cantilever form fraveler	Qianzhang Chang Railway Engineering	Hunan Changde
17	China Railway No.23 Engineering Group Co. Ltd	Trolley, Cantilever form fraveler	Guiguang Railway Project	Guilin, Guangxi Province
18	China Railway No.23 Engineering Group Co. Ltd	Trolley、Cantilever form fraveler	Shanghai-Kunming Specialist Hotel Guizhou Section	Guiyang, Guizhou
19	China Railway Electrification Bureau Group Co., Ltd.	Trolley, Cantilever form fraveler	Tongxun High Speed TX-C03 Standard	Shaanxi Tongchuan
20	China Railway Tunnel Group Co., Ltd.	Trolley, Cantilever form fraveler	Guiguang Railway GGTJ-2 standard	Duyun, Guizhou
21	CCCC Second Highway Engineering Co., Ltd.	Trolley, Cantilever form fraveler	Jianpo to Xiaobi Expressway Section 1B	Guiyang, Guizhou
22	China Communicat 2nd Navigational Bureau 2nd Engineering Co., Ltd.	Trolley, Cantilever form fraveler	Tongnan Xuan Expressway 6 standard project	Wuhu, Anhui
23	China Road & Bridge Corporation	Trolley, Pier Column	Ning An Railway Project	Wuhu, Anhui
24	Norway Tverlandsbrua Project	Tunnel lining trolley	Tverlandsbrua Project	Andnes
25	Colombia TABE trading company	Tunnel lining trolley	TABE Cross-sea Bridge Project	Bogota