## Innovative Activities

Technological innovation is the soul of transformation and upgrading, quality improvement and efficiency enhancement. The company was rated as a national pilot demonstration enterprise for innovation and entrepreneurship. The company arranges no less than 3.6% of the sales revenue for technological innovation every year, encourages independent innovation, and rewards technological innovation. The company carries out quality month activities for three months every year, implements the "Thousand Talents Innovation Plan", and sets up the "Company Founder Quality Award", "Chairman Quality Award", "General Manager Quality Award", and "Craftsman Spirit Award". Every year at the "Henan Mine May 1st Commendation Conference", the award-winning advanced collectives and advanced individuals will be rewarded.

The company has obtained more than 600 authorized patents, and participated in the formulation and revision of 18 national standards, industry standards, local standards and group standards.

Henan Mine has carried out strategic cooperation with internationally renowned enterprises, domestic research institutions and colleges and universities, and fully leveraged the strength of colleges and universities, scientific research institutes and the company's own research and development strength to cooperate with each other. Continuously improve the creative ability of the enterprise, realize continuous technological innovation, and maintain the core competitive advantage.

Undertake the 15th China-Japan-Korea Asian Crane Safety Forum

Undertake the 3rd China College Students Crane Creative Competition

Undertake the 5th and 7th China-Changyuan International Lifting Equipment Expo

Hold the Henan Mine Crane Development Summit Forum every year

## Intelligent Equipment

The company has installed an intelligent equipment management platform, and has installed more than 600 sets (sets) of handling and welding robots, and the equipment networking rate has reached 95%. More than 100 welding lines have been put into use, and the automation rate of the entire product line has reached 85%.

Finishing workshop

Double beam main beam inner seam robot welding workstation

Single beam main beam inner seam robot welding workstation

Single beam end beam robot welding workstation

New type end beam robot welding workstation

Single beam reinforcement plate assembly and welding workstation

Six-axis articulated robot

Wheel forging and rolling composite process line

Electric Hoist Reel Cover Robot Welding Workstation

Fixed beam gantry mobile CNC machining center

## Technological Innovation

### Single Beam Crane Flexible Production Line

Henan Mine cooperates with Beijing Crane and Transportation Machinery Design and Research Institute, employs German crane experts, and completes the "single beam crane flexible production line", so that the main beam production line of the crane can produce finished products every hour, the production time is reduced by 40%, and the customer delivery cycle is shortened 50%. The on-site work-in-progress inventory is reduced to the minimum, the site occupation is saved by two-thirds, the labor intensity is significantly reduced, and the efficiency is greatly improved.

Group photo with Beiqi Institute and German experts

Flip tooling

The output of end beams has changed from the original two shifts of 12 people in 20 hours to produce 80 pieces in total to a single shift of 8 people in 8 hours to 100 pieces. While the output increases and the quality improves, the labor intensity of workers is greatly reduced, and the occupied site area is reduced by 2/3, which provides a basis for further implementation of advanced manufacturing transformation and 5S management.

Before the reconstruction of the end beam assembly line

After the reconstruction of the end beam assembly line

End beam robot welding line

### Wheel Forging And Rolling Composite Process Line

The wheel forging and rolling compound process assembly line has created a precedent for ordinary electric single-beam bridge cranes in China to use this process wheel. The forged rolling wheel material has high density, high hardness and good wear resistance, which increases the service life of the crane, not only improves the production efficiency, but also greatly improves the quality and appearance of the product. Compared with the casting process, the heat loss is reduced by 50%, the energy utilization rate has increased by 40%, and the production of energy saving and emission reduction has been realized, which is also of great significance for reducing carbon emissions and protecting the environment.

## Corporate Culture

Since the establishment of Henan Mine, the high-level team with the company founder and party secretary Cui Peijun as the core has given full play to the role of "navigator" and led Henan Mine to achieve rapid development. Relying on the leadership team and the wisdom of all staff, we have established a unique cultural system of filial piety in Henan mines, established the company's mission, vision and core values, created a good atmosphere of people-oriented and honest management, improved corporate governance, fulfilled social responsibilities, and created a An enterprise that pursues excellence and healthy development.

"Three hearts" core values

"Six most" corporate goals

### Filial Piety Activities

The company pays attention to leading the development of the enterprise with culture, gives full play to the guiding function of "filial piety culture", and uses the simplest way of doing good deeds and accumulating virtue and filial piety to repay kindness to inspire employees' enthusiasm for the pursuit of truth, kindness and beauty. The company has put forward the core values of "Three Hearts", which is to harmonize the family with filial piety, unite comrades with sincerity, and serve customers with enthusiasm. The culture of filial piety has continuously enhanced the spirit of solidarity and mutual assistance and service awareness of employees, shortened the distance between enterprises, employees and customers, promoted cultural exchanges and all-round cooperation among enterprises, and established a good market image. It has formed a unique corporate culture with mission, vision and values as the core.

The 5th Mid-Autumn Filial Piety Culture Festival

The 3rd Filial Piety Culture Food Festival

Warm Winter Hot Pot Dinner

Condolences to the Elderly Association

The 11th Filial Piety Culture Thanksgiving Tourism Festival

河南矿山
HENANMINE

# 河南省矿山起重机有限公司
# HENAN MINE CRANE CO.,LTD

www.hnkscrane.com

https://youtu.be/IFb_jGycgLk

# Enterprise Introduction

Henan Mine Crane Group was founded since 2002, workshop area of 1.62 million square meters, 5100+ employees. Focus on "KUANGYUAN" brand Overhead Crane、Gantry Crane and Electric Hoist, research-design-manufacture-sales-sales of 110+ types cranes and components。As a professional crane&material handling manufacturer and service supplier, able to provide solution and full-life cycle service, Committed to intelligent, green and high-quality development of the crane industry.

HENAN MINE is the vice chairman unit of China Heavy Machinery Industry Association、Member unit of National Lifting Machinery Standardization Technical Committee、International Organization for Standardization Crane Technical Committee (ISO/TC96) Deputy leader of the domestic technical counterpart expert working group。Named "China Industry Award Nomination Award"、"National quality benchmark" "Quality benchmarking enterprise of Chinese industrial enterprises"、"National green factory"、" National contract-abiding and credit-worthy enterprises"、"National manufacturing single champion product" and 500+ etc.

In 2022, Henan Mine produced and sold more than 100,000 sets of various cranes, with sales revenue of 9.16 billion yuan and various taxes paid 285 million yuan.

Products sell well all over the country and Belt and Road countries and regions, there are 428 sales and service agencies throughout the country, serving more than 7,000 high-end customers, in aerospace, automobile and shipbuilding, iron and steel smelting, petrochemical, railway and military industry and other key industries at home and abroad more than 50 industry fields have achieved remarkable results。R&D and manufacturing of remote monitoring cranes, intelligent storage cranes, precision positioning cranes, unmanned cranes, nuclear-grade special cranes and other high-precision products serve large enterprises such as Baowu, China Railway, China Metallurgical Corporation, China Nuclear and AVIC.

Henan Mine is a high-tech enterprise, composed of more than 10 high-end experts in the industry, more than 200 senior engineers composed of technical team, responsible for the innovative design and development of products, has obtained more than 500 national patents and provincial scientific and technological achievements; Has built national enterprise technology center, provincial industrial design center, crane key technology laboratory and other research and development platforms; Has established long-term cooperative relations with Beijing Lifting and Transportation Machinery Design and Research Institute, Henan Special Equipment Safety Testing Institute, Harbin Institute of Technology and other institutions to provide strong support for promoting the technological innovation and development of cranes.

Tree a century-old "KUANGYUAN" brand and create a first-class enterprise is the company's vision。We led by "filial piety culture", Take "Three Hearts" as the core value of the enterprise, Take "six most" as the development goal, Integrity-based, win-win cooperation, do not forget the original intention, industry to serve the country, and make great contributions to the development of the crane industry.

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# Leadership Care

Zhou Tienong, Vice Chairman of the 11th National People's Congress (2nd from left), Wang Wenyuan, Vice Chairman of the 9th National Committee of the Chinese People's Political Consultative Conference (3rd from left), Buhe, Vice Chairman of the 9th National People's Congress (1st from right), receive Cui Peijun, our founder

Long Yongtu, the former vice minister of the Ministry of Foreign Trade and Economic Cooperation, photo with our founder

Xie Fuzhan, President of the Chinese Academy of Social Sciences and former Secretary of the Henan Provincial Party Committee of the Communist Party of China, visited our company

Wang Guosheng, Secretary of the Henan Provincial Party Committee of the Communist Party of China, visited our company for investigation and research

Liu Wei, chairman of the Henan Provincial Political Consultative Conference, visited our company for investigation and research

Zhang Guowei, secretary of the Xinxiang Municipal Party Committee, visited our company for investigation and research

Xinxiang Mayor Wang Dengxi visited our company for investigation and research

# Leading Product

## Electric Hoist

CD1/MD1 Electric Wire Rope Hoist

New type Electric Wire Rope Hoist

## Electric Single Girder Overhead Crane

LD type Electric Single Girder Overhead Crane

New type Electric Single Girder Overhead Crane

## Electric Double Girder Overhead Crane

QD Hook type Electric Double Girder Overhead Crane

New Hook type Electric Double Girder Overhead Crane

## Special Usage Crane

Casting usage Four Girder Bridge Crane

Container usage Gantry Crane

Railway usage Gantry Crane

Charging Usage Insulation-free Bridge Crane

# Metallurgic & Charging Cranes

360/80 tons Double Beams Metallurgic Ladle Crane

25+25 tons Double Beams Magnetic Crane with Hanging Beam

50+50 tons Double Beams Overhead Crane with Slabs Tongs

10 tons Double Beams Overhead Crane with Orange Peels Grab

10 tons Double Beams Overhead Crane with Clamshell Grab

40+40 tons Double Beams Upper Rotating Trolley Overhead Crane

40+40 tons Double Beams Upper Rotating Trolley Overhead Crane

# Classic Case

## Clean Explosion-proof Automatic Crane

Through the development and production of clean explosion-proof automatic cranes for the semiconductor-grade polysilicon project of Jiangsu Xinhua Semiconductor Material Technology Co., Ltd., our company has obtained 16 invention patents, and is the only company in China that has obtained the production qualification of clean explosion-proof automatic cranes. Possess the following advanced technologies: high-sealed explosion-proof drive mechanism, maintenance-free self-lubricating bearings, integrated compact design of motor, reducer, brake, and electrical monitoring.

## Rail-mounted Container Gantry Crane (Lan Zhou Railway Project)

Lanzhou International Port Area is a hub port for international trade on the "Belt and Road" economic belt, a comprehensive logistics center connecting Central Asia, West Asia and European markets, and an important fulcrum for promoting the construction of the "Silk Road Economic Belt". Our company designed and manufactured the CMJ40.5T-35M A8 rail-mounted container gantry crane for Lanzhou International Port Area, realizing fully intelligent unmanned operation.

## Intelligent Coke Tank Crane

In order to help the green transformation of coking enterprises and promote the high-quality development of the coking industry, our company has contracted the intelligent coke tank crane for Jiujiang Coking. The crane overcomes technical difficulties such as high-temperature red coke heat radiation and flame baking, fully considers the on-site use environment of the coking industry, ensures that the crane equipment has excellent performance in operation and use, and meets the needs of production technology. It provides a factual basis for the new inspection and design standards of cranes in the coking industry, and realizes technological breakthroughs and innovations.

## Smart Storage Crane

The (8+8) t intelligent storage crane designed and manufactured by our company for the unmanned cold storage storage project of Shandong Lingdong Electronic Technology Co., Ltd. "Suantong Tianxia" Industrial Park is the first automatic storage crane used in agriculture in China. It has the characteristics of large span, long running distance, high lifting height, fast running speed, stable running without fluctuation, many positioning points and high precision.

Compared with traditional warehousing, the labor efficiency has been increased by 100 times, the land utilization rate has been increased by 10 times, and the comprehensive operating cost has been reduced by 60%.

## Clean Explosion-proof Automatic Crane

Our company undertook the manufacture of 71 sets of lifting equipment for Zhanjiang project of Baosteel Group. Among them, the 15 cranes in the post-rolling warehouse and the finished product warehouse area all adopt the new technology of unmanned operation, which can not only realize the functional control of the three-dimensional positioning of the crane, automatic loading and unloading and other actuators, but also the unmanned crane of our company is Baosteel WMS An important part of (warehouse management system).

# 河南省矿山起重机有限公司

## HENAN PROVINCE MINE CRANE CO.,LTD.

大吨位　智能化　轻量化　绿色制造

中国 · 长垣

河南矿山
HENANMINE

# 河南省矿山起重机有限公司

HENAN PROVINCE MINE CRANE CO.,LTD.

大吨位　智能化　轻量化　绿色制造

国家级绿色工厂
National green factory

工业企业质量标杆企业
Industrial enterprise quality benchmark enterprise

中国工业大奖提名奖
China Industry Award nomination

省长质量奖获奖企业
Provincial governor quality award winning enterprises

# COMPANY PROFILE
# 企业简介

河南省矿山起重机有限公司（以下简称“河南矿山”）成立于2002年，公司建设面积162万平方米，现有员工4277人，拥有各类先进加工设备3500余台(套)。专业从事“矿源”牌桥式起重机、门式起重机及电动葫芦等三大系列110余种各类起重机及配套件产品的研发、生产、销售及服务。作为一家专业的起重机及物料搬运产品制造商和服务供应商，能够为客户提供整体解决方案和全生命周期服务，致力于起重机产业的智能、绿色、高质量发展。

公司是中国重型机械工业协会副理事长单位，中国质量检验协会会员单位。先后获得“中国工业大奖提名奖”、“中国工业企业质量标杆企业”、“国家级绿色工厂”、全国“守合同重信用企业”、“国家制造业单项冠军产品”、“高新技术企业”、“自主创新领军企业”、“河南省省长质量奖”、“河南省智能车间”、“河南省智能工厂”、“河南省百强企业”、河南省第一批“两化融合示范企业”等500多项殊荣。产品产销量、市场占有率、自动化智能化装备水平连续多年位居全国同行业前列。

2020年实现产销量100000余台（套）。公司拥有428家销售服务机构遍及全国各地，服务于6000余家中高端客户，在航空航天、汽车船舶、钢铁冶炼、石油化工、电子信息、电业水利、铁路军工等国内外重点产业50多个行业领域取得骄人业绩。研制开发的远程监控起重机、智能仓储起重机、精准定位起重机、自动化集装箱门式起重机、无人化起重机、核级专用起重机、洁净防爆自动起重机、多支点柔性起重机等高精尖产品服务于宝钢、中铁、中冶、中核、中航等大型企业。产品畅销全国各地和130多个国家和地区。

公司是国家高新技术企业，由10余名行业顶尖专家、200余名中高级工程师组成的技术团队，担负着产品的创新设计与开发，目前已获得国家专利和省级科技成果300余项；公司建有省级企业技术中心、省级工业设计中心、河南省节能起重机工程技术研究中心以及起重机关键技术实验室、中原学者工作站等研发机构；并与北京起重运输设计研究院、河南省特种设备检测研究院、华北水利水电大学、太原科技大学等院校建立长期合作关系，为推动起重行业的创新发展提供有力支持。

树百年矿源，创一流企业是公司的夙愿。公司以“孝文化”为企业文化的核心价值观，按照“三心六最”发展目标，以诚信赢天下，与各界朋友合作共荣，致力于引领起重机产业高质量发展。

Henan Mine Crane Co., Ltd. (hereinafter referred to as "Henan Mine") was established in 2002, with a construction area of 1.62 million square meters, 4,277 employees and more than 3,500 sets of various advanced machine tools. It specializes in the research and design, manufacturing, sales and service of more than 110 kinds of cranes and accessory products in three series of "Kuangyuan" bridge cranes, gantry cranes and electric hoists. As a professional manufacturer and service provider of cranes and material handling products, it can provide customers with turnkey solutions and life cycle services, and it is committed to the intelligent, green and high-quality development of the crane industry.

The company is the vice president unit of China Heavy Machinery Industry Association and a membership unit of China Association for Quality Inspection. It has won over 500 great honors, including "China Industrial Awards Nomination Award", "Quality Benchmarking Enterprise of Chinese Industrial Enterprises", "National Green Factory", National "Credit Contract Keeping Company", "National Single Champion Product in Manufacturing", "High-tech Enterprise", "Leading Enterprise of Independent Innovation", "Henan Governor Quality Award", "Henan Intelligent Workshop", "Henan Provincial Intelligent Factory", "Henan Top 100 Enterprises", Henan Province's first batch of "Model Enterprise of Integration of Informatization and Industrialization". It tops the national market among the same industry in China for many years in production and sales of products, market share and level of automation and intelligent equipment.

In 2020, its production and sales volume have reached more than 100,000 units (sets). The company has 428 sales and service organizations all over the country, serving more than 6,000 medium and high customers. It has achieved remarkable results in more than 50 domestic and foreign key industries including aerospace, automobiles and ships, steel-smelting, chemical engineering, electronic information, electric utility and water conservancy, railway and military industry. High-tech products of the company, such as remote monitoring cranes, intelligent warehousing cranes, precise positioning cranes, automatic container gantry cranes, unmanned cranes, nuclear-grade special cranes, clean explosion-proof automatic cranes, multi-fulcrum flexible cranes, serve large enterprises including Baosteel, China Railway, China Metallurgical Group Corporation, AVIC. The products sell well domestically and across more than 130 countries and regions.

As a national hi-tech enterprise, the company has a technical team composed of over 10 leading experts in the industry as well as more than 200 intermediate and senior engineers. Thanks to their innovative design and development, the company owns over 300 national patents and provincial-level technical awards. The R & D institutes of the company includethe Enterprise Technical Center and the Industrial Design Center, both of which are at provincial level, Henan Engineering Research Center for Energy-Saving Cranes, Key Technical Lab for Cranes and Scholar Work Station of Central China. The company has provided great support to the innovative development in the crane industry thanks to its cooperation with its long-term partners, which include Beijing Research Center of Lifting and Transporting Machinery, Henan Research Center of Special Instrument Test, North China University of Water Resources and Electric Power, and Taiyuan University of Science and Technology.

It is the wish of the company to build itself into a top-class enterprise that would prosperous forever in the crane industry. Adhering to its enterprise values based on "filial piety culture" and its comprehensive development objectives, the company is determined to playing a leading role in the top-quality development of the crane industry by means of honesty and friendly cooperation with friends from all walks of life.

# QUALIFICATION CERTIFICATE
# 资质证书

营业执照

(副本) 1-20

名　　称　河南省矿山起重机有限公司

类　　型　有限责任公司(自然人投资或控股)

法定代表人　崔培军

经营范围　单、双梁、桥式、门式起重机（含防爆、冶金起重机）、悬臂机、电动葫芦、钢丝绳电动葫芦及其零部件的设计、制造、销售、安装、维修、租赁；减速机、电机、电线电缆、总成的研发、制造、销售。（依法须经批准的项目，经相关部门批准后方可开展经营活动）

注册资本　壹拾壹亿柒仟柒佰万圆整

成立日期　2002年09月30日

营业期限　长期

住　　所　长垣市长恼工业区矿山路与纬三路交汇处

登记机关

2020 年 11 月 19 日

高新技术企业

证书

企业名称：河南省矿山起重机有限公司　　证书编号：GR202041002070

发证时间：2020 年 12 月 4 日　　有效期：三年

批准机关：

副本

中华人民共和国
特种设备生产许可证
Production License of Special Equipment
People's Republic of Chona

编号：TS2410461-2024

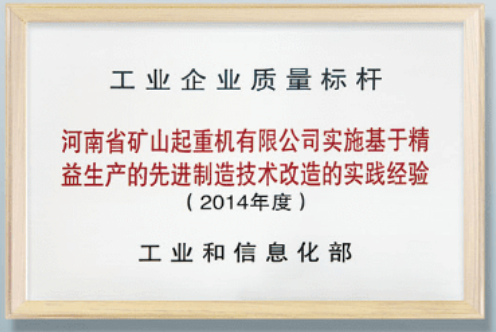
单位名称：河南省矿山起重机有限公司
住　　所：河南省长垣县长恼工业区矿山路与纬三路交汇处
制造地址：河南省长垣县长恼工业区矿山路与纬三路交汇处
经审查，获准从事以下特种设备生产活动：

| 许可项目 | 许可子项目 | 许可参数 | 备注 |
|---|---|---|---|
| 起重机械制造（含安装、修理、改造） | 桥式、门式起重机（A） | — | 覆盖B级；具体产品范围见型式试验证书 |

发证机关：国家市场监督管理总局

有效期至：2024年06月19日

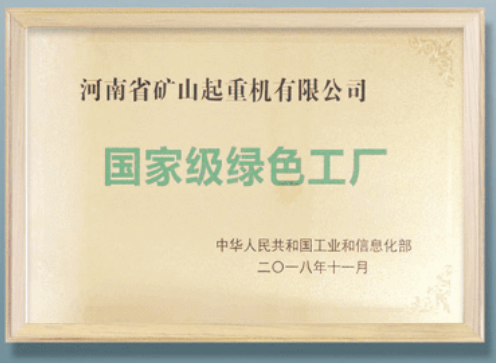
发证日期：2024年06月20日



工业企业质量标杆

河南省矿山起重机有限公司实施基于精益生产的先进制造技术改造的实践经验
（2014年度）

工业和信息化部



河南省矿山起重机有限公司

国家级绿色工厂

中华人民共和国工业和信息化部
二〇一八年十一月

授予：河南省矿山起重机有限公司

中国工业大奖提名奖

中国工业经济联合会
二〇二〇年十二月

编号：62003002

CERTIFICATE
质量管理体系认证证书
河南省矿山起重机有限公司
GB/T 19001-2016/ISO 9001:2015
《质量管理体系 要求》

CERTIFICATE
职业健康安全管理体系
认证证书
河南省矿山起重机有限公司
GB/T 28001-2011/OHSAS 18001:2007
《职业健康安全管理体系 要求》

CERTIFICATE
环境管理体系认证证书
河南省矿山起重机有限公司
GB/T 24001-2016/ISO 14001:2015
《环境管理体系 要求及使用指南》

两化融合管理体系评定证书
河南省矿山起重机有限公司

能源管理体系认证证书
河南省矿山起重机有限公司

副本
北京天一正认证中心有限公司
武器装备质量管理体系认证证书
河南省矿山起重机有限公司
中国航天

安全生产标准化
Work Safety Standardization
证书
CERTIFICATE
河南省矿山起重机有限公司
安全生产标准化二级企业
(机 械)
有效期至：2022年4月

建筑业企业资质证书
（副本）
河南省矿山起重机有限公司

对外贸易经营者备案登记表

# MAIN PRODUCTS
# 主要产品

**公司年产销双梁、门式起重机11000余台**
The company produces and sells more than 11000 double beam and gantry cranes annually

**单梁起重机73000余台**
More than 73000 single beam cranes

**单双梁电动葫芦及配件100000余台（套）**
More than 100000 sets (sets) of single and double beam electric hoist and accessories

公司在消化、吸收国内外起重机先进的设计理念和制造技术的基础上，全力对单、双梁起重机、电动葫芦，进行改型设计，向“大吨位、智能化、轻量化、绿色制造”迈进，与国际同类产品接轨。

On the basis of digesting and absorbing the advanced design concept and manufacturing technology of cranes at home and abroad, the company makes every effort to redesign the single and double beam cranes and electric hoists, strides forward to "large tonnage, intelligent, lightweight and green manufacturing", and is in line with the international similar products.

大吨位 智能化 轻量化 绿色制造

# GANTRY CRANE
# 门式起重机

门式起重机主要用于室外的货场、料场货、散货的装卸作业，具有场地利用率高、作业范围大、适应面广、通用性强等特点。

Gantry crane is mainly used for loading and unloading of goods in outdoor freight yard, stockyard and bulk cargo. It has the characteristics of high site utilization, large operation range, wide adaptability and strong universality.

MH型电动葫芦门式起重机

MH type electric hoist gantry crane

MB型半门式起重机

MB type gantry crane

集装箱门式起重机

Container gantry crane

MG型双梁门式起重机

MG type double girder gantry crane

L型门式起重机

L type gantry crane

ME型造船门式起重机

ME shipbuilding gantry crane

$MG_G$型桁架门式起重机

$MG_G$ type truss gantry crane

MZ型双梁抓斗门式起重机

MZ double beam grab gantry crane

# BRIDGE CRANE
# 桥式起重机

桥式起重机是桥架在高架轨道上运行的一种桥架型起重机。桥式起重机的桥架沿铺设在两侧高架上的轨道纵向运行，起重小车沿铺设在桥架上的轨道横向运行，构成一矩形的工作范围，就可以充分利用桥架下面的空间吊运物料，不受地面设备的阻碍。

A bridge crane is such that its bridge moves on elevated tracks, also called overhead traveling crane. A bridge crane has its bridge longitudinally move along the elevated tracks laid at both sides and its carriage laterally move along the tracks laid on the bridge to make a rectangular working scope. In this way, the room below the bridge can be made full use of while being free of hindrances of equipment on the ground.

LD型单梁桥式起重机

LD single girder overhead traveling crane

LX型电动单梁起重机

LX electric single-girder suspension crane

LDP型电动单梁起重机

LDP type electric single girder crane

LH型电动葫芦双梁起重机

LH double-girder crane with electric hoist

QD型电动双梁吊钩桥式起重机

QD type electric double beam bridge crane hook

QC型电磁桥式起重机

QC Electromagnetic Bridge Crane

洁净防爆全自动型起重机

Clean explosion-proof automatic crane

YZS型四梁铸造桥式起重机

YZS type four beam casting bridge crane

# NEW LIFTING EQUIPMENT
# 新型起升设备

该型号起重机是在引进和消化国外先进技术的基础上，以模块化设计理论为指导，以现代计算机技术为手段，引入优化设计及可靠性设计方法，采用进口配置、新材料、新工艺完成的具有轻量化、通用化、节能环保、免维护及高技术含量的新型起重机。

Based on bringing in and assimilating foreign advanced technology, this type of crane takes modular design theories as guidance, uses modern computer technology as means, introduces optimized and reliable design methods, which is new type of crane made by employing import configuration, new material and technology and has features in light-weight, generalizing, energy-conservation and environmental protection, maintenance free and high technology content.

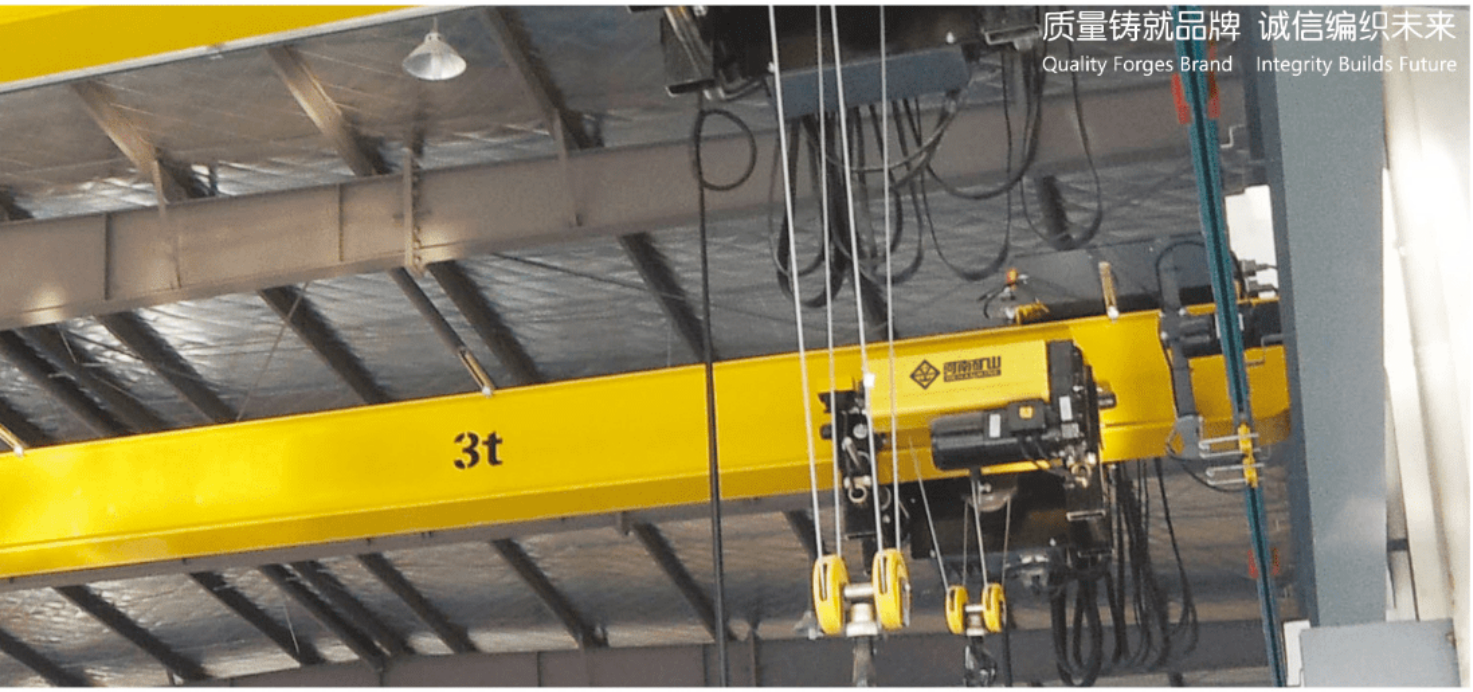
## 起升机构 设计严格执行FEM的相关标准。
## Hoisting mechanism The design strictly carries out the relevant standards of FEM.

铝合金减速器壳体
With aluminum alloy shell of reducer

运行平稳，噪音低
Steady running and low noise

终生润滑（安全使用周期内）
Lifetime lubricating (within safety service circle)

双碟电磁盘式制动器
Double-disk electromagnetic brake




质量铸就品牌 诚信编织未来
Quality Forges Brand Integrity Builds Future

## 自重轻 / 占用空间小 / 运行成本低 / 工作性能高

Light weight / small occupied space / low operation cost / high working performance

# PRODUCTION EQUIPMENT
# 生产设备

**各类加工设备3500余台(套)**
More than 3500 sets of various processing equipment

**智能化精加工车间**
Intelligent finishing workshop

**标准化恒温车间12000平方米**
Standardized constant temperature workshop 12000 square meters

**西门子数控系统**
Siemens CNC system

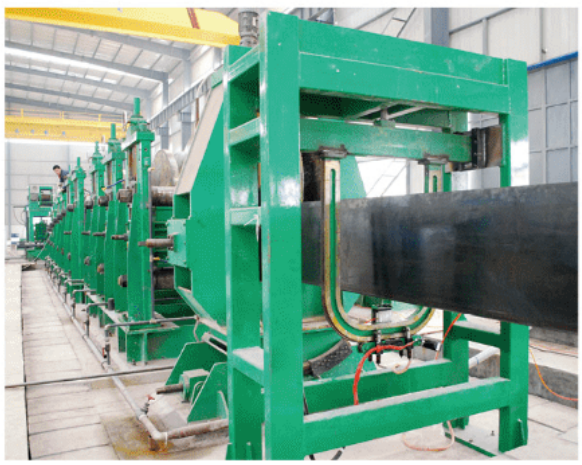
全自动双梁主梁内缝焊接机器人
Automatic welding robot for inner seam of double girder

端梁焊接机器人
End beam welding robot

单梁焊接机器人
Single beam welding robot

龙门移动式加工中心 Gantry mobile machining center

抛丸机 CNC machining center



U型槽成型机
U-groove forming machine

数控机加工中心 CNC machining center

车轮锻造
Wheel forging

数控机加工中心 CNC machining center

渗碳炉 Production equipment

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* 本样本数据仅供选型参考，具体数据请咨询矿山集团技术部。