



河南省矿山起重机有限公司

HENAN PROVINCE MINE CRANE CO.,LTD.



专业



智能



绿色



高质量

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



河南省矿山起重机有限公司

HENAN PROVINCE MINE CRANE CO.,LTD.

Web: www.kscranegroup.com
Email: sales@kscranegroup.com
Phone: +86 373 387 2232
Address: Changyuan City, Henan Province, China



河南矿山微信公众号



河南矿山手机网站



河南矿山抖音

“一握矿源手，终生是朋友”，
河南矿山党委书记崔培军竭诚与
各界朋友携手并进、共创辉煌。

Hold hands of Kuangyuan, being friends for ever.Cui
Peijun, Party secretary of the KUANGSHAN CRANE,
will sincerely seek for common progress and resplen-
dence cooperating with all friends.friends and estab-
lishbrilliance.

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，占地面积162万平方米，现有员工4700余人。公司成立二十年来，一直倡导改革创新、追求卓越，智能制造、绿色高效的发展理念，坚持技术、工艺、装备、产品及服务不断改革，推动产业向自动化、智能化、信息化升级转型，为客户提供全方位服务。目前公司产品已在航空航天、军工科技、汽车船舶、食品化工、金属加工、钢铁冶炼、机械制造以及垃圾焚烧处理等50多个专业领域取得骄人成果。产品覆盖80多个国家和

地区，服务全球超过6000家中高端客户。

公司是中国重型机械工业协会副理事长单位、全国起重机械标准化技术委员会委员单位，建有国家认定企业技术中心，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”、“河南省省长质量奖”、“河南省智能工厂”、河南省第一批“两化融合示范企业”等各项荣誉500余项。

KUANGSHAN CRANE Crane Co., Ltd. (hereinafter referred to as "KUANGSHAN CRANE") was established in 2002, covering an area of 1.62 million square meters, with more than 4700 employees. Since its establishment 20 years ago, the company has been advocating the development concept of reform and innovation, pursuing excellence, intelligent manufacturing, green and efficient, adhering to the continuous reform of technology, process, equipment, products and services, promoting the upgrading and transformation of the industry to automation, intelligence and informatization, and providing customers with allround services. At present, the company's products have achieved remarkable results in more than 50 professional fields, such as aerospace, military science and technology, automobiles and ships, food and chemical industry, metal processing, steel smelting, machinery manufacturing and waste incineration treatment. The

products cover more than 80 countries and regions and serve more than 6000 medium and high-end customers worldwide.

The company is the vice chairman unit of China Heavy Machinery Industry Association and the member unit of the national Lifting Machinery Standardization Technical Committee. It has established a national recognized enterprise technology center and has won the "Nomination award of China Industrial Award", "quality benchmarking enterprise of China Industrial Enterprises" "national green factory", the national "contract abiding and trustworthy enterprise", "national single champion product of manufacturing industry", "Henan provincial governor Quality Award" There are more than 500 honors, such as "Henan smart factory" and the first batch of "demonstration enterprises for the integration of industrialization and industrialization" in Henan Province.



河南矿山智能制造产业园

智能 绿色 全产业链
INTELLIGENCE GREEN WHOLE INDUSTRY CHAIN

KUANGSHAN CRANE intelligent manufacturing Industrial Park

河南矿山智能制造产业园，项目总投资26亿元，总占地面积74万平方米，实现单双梁等各类智能起重机年产量5万余台（套）。

KUANGSHAN CRANE intelligent manufacturing industrial park, with an estimated total investment of 2.6 billion yuan, covers a total area of 740000 square meters, and achieves an annual output of more than 50000 sets of intelligent cranes such as single and double beams.



智能 / INTELLIGENCE

公司以“创新驱动、智能制造”发展为主线，将传统的起重机赋予智能功能，将其打造成具备自动化、信息化和智能化功能，能够自动抓取和搬运物料的空中搬运机器人，与用户的整个智能制造系统相融合。

公司的起重机生产过程也实现了自动化和智能化，公司安装有智能装备600余台（套），数字化率和联网率分别达到95%和85%。将公司逐步打造为起重装备智能制造基地，同时，我们还将对起重机制造工艺进行数字化革新，打造具有世界一流水平的起重机数字化工厂。

Taking the development of "innovation driven and intelligent manufacturing" as the main line, the company endows the traditional crane with intelligent functions, and makes it an air handling robot with automation, informatization and intelligent functions, which can automatically grasp and handle materials, and integrates with the user's entire intelligent manufacturing system.

The crane production process of the company has also been automated and intelligent. The company has installed more than 600 sets of intelligent equipment, and the digitization rate and networking rate have reached 95% and 85% respectively. We will gradually build the company into an intelligent manufacturing base for lifting equipment. At the same time, we will also carry out digital innovation on the crane manufacturing process and build a world-class Crane Digital chemical plant.



智能仓储起重机
Intelligent storage crane



智能精加工车间
Intelligent finishing workshop

绿色 / GREEN

将传统起重机赋予绿色与轻量化理念，将其打造成外观精巧美观、性能好、运行平稳、噪音低、整机自重轻、控制方式灵活可靠、环保节能的新型起重机，为用户提供更多更好的选择。

同时，我们还通过对起重机生产过程的工艺创新、绿色环保节能装备的安装使用，来降低原材料消耗、能源节约，从而达到节能减排、低碳排放的目标。



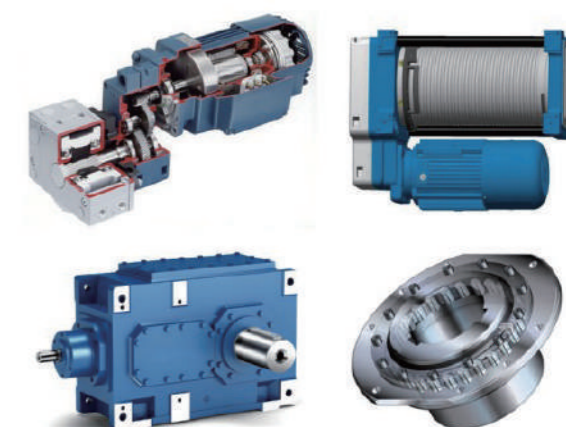
轻量化新型起重机
Lightweight new crane

The traditional crane will be endowed with the concept of green and lightweight, and will be built into a new crane with exquisite and beautiful appearance, good performance, stable operation, low noise, light weight of the whole machine, flexible and reliable control mode, environmental protection and energy conservation, providing users with more and better choices.

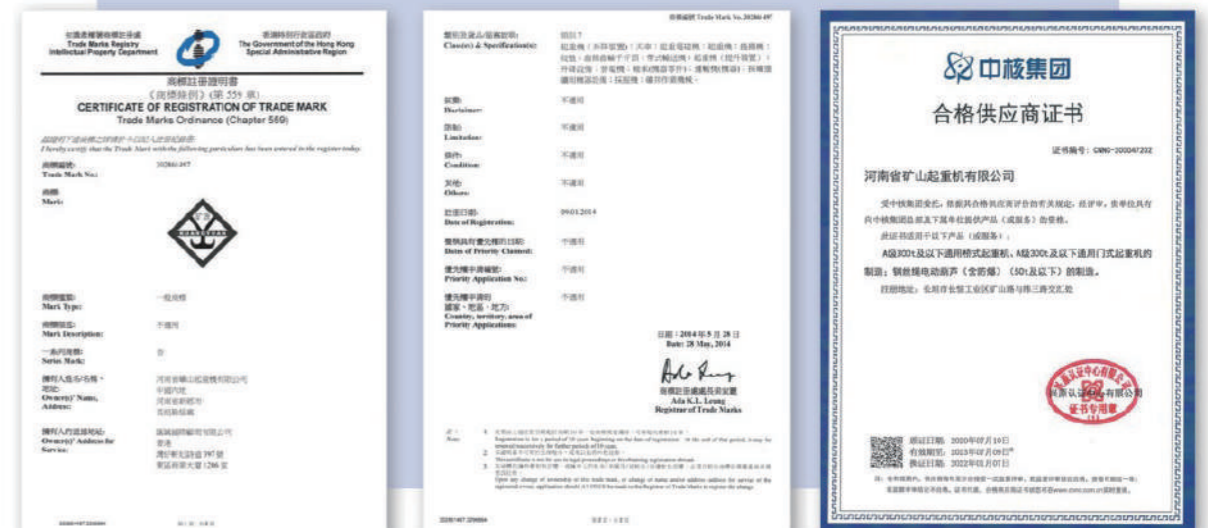
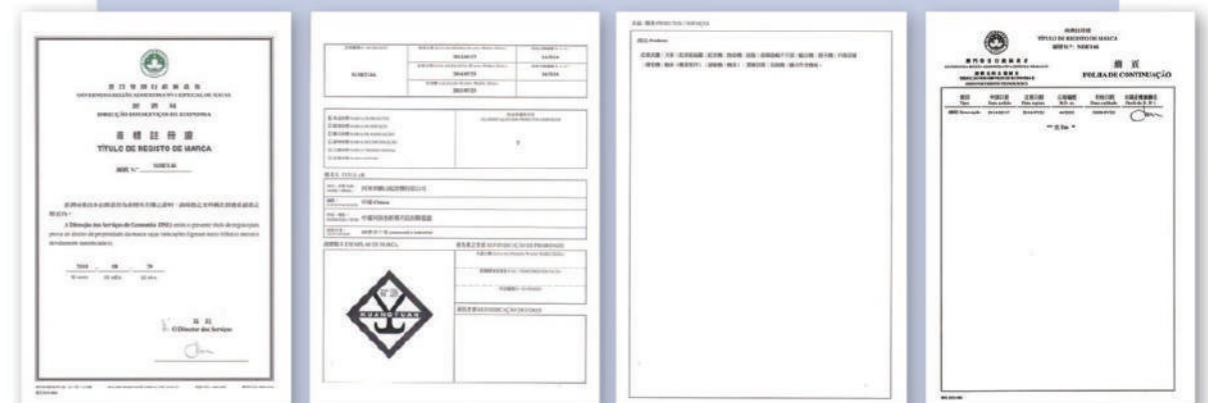
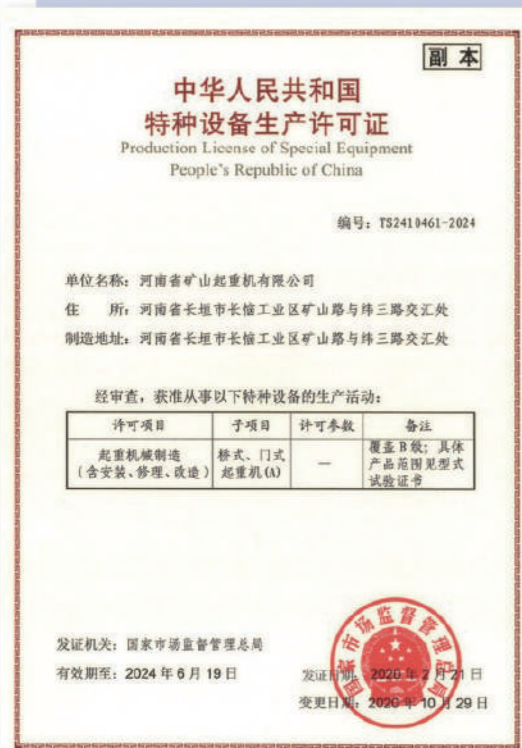
At the same time, we also reduce raw material consumption and energy conservation through the process innovation of crane production process and the installation and use of green environmental protection and energy-saving equipment, so as to achieve the goals of energy conservation, emission reduction and low carbon emission.

全产业链 / WHOLE INDUSTRY CHAIN

我公司作为同行业最大的桥、门式起重机生产企业，将对产业链和供应链的资源进行整合，对起重机的核心部件和控制系统技术进行研发制造、推广应用，填补我国具有自主核心技术和智造能力的起重机高端配套件产业链，逐步达到起重机核心技术自产化。



As the largest manufacturer of bridge and gantry cranes in the same industry, our company will integrate the resources of the industrial chain and supply chain, develop, manufacture, promote and apply the core components and control system technology of cranes, fill the industrial chain of high-end crane accessories with independent core technology and intelligent manufacturing capacity in China, and gradually achieve the self-production of core technology of cranes.







第十一届全国人大常委会副委员长周铁农（左二）、第九届全国政协副主席王文元（左三）、第九届全国人大常委会副委员长布赫（右一）接见河南矿山党委书记崔培军（后右五）

Zhou Tienong, vice chairman of the Standing Committee of the Eleventh National People's Congress (second from the left), Wang Wenyan, vice chairman of the Ninth National Committee of the Chinese people's Political Consultative Conference (third from the left), and Buhe, vice chairman of the Standing Committee of the Ninth National People's Congress (first from the right), received cuipeijun, Secretary of the Henan mining Party committee (second from the right)



国家外经贸部原副部长龙永图与河南矿山党委书记崔培军合影

Long Yongtu, former Vice Minister of the Ministry of foreign trade and economic cooperation, took a group photo with cuipeijun, Secretary of the KUANGSHAN CRANE Party committee



公司党委书记崔培军被评为第六届（2015）“河南经济年度人物”，颁奖现场与河南省委原书记徐光春合影留念

Cuipeijun, Secretary of the Party committee of the company, was selected as the "person of the year of Henan economy" of the sixth (2015), and took a group photo with xuguangchun, former Secretary of Henan provincial Party committee at the award ceremony



河南省委原书记王国生一行莅临河南矿山考察调研

Wang Guosheng, former Secretary of Henan provincial Party committee, and his delegation visited KUANGSHAN CRANE for investigation and research



河南省委原书记谢伏瞻一行莅临河南矿山考察调研

Xiefuzhan, former Secretary of Henan provincial Party committee, and his delegation visited KUANGSHAN CRANE for investigation and research



河南省政协主席刘伟一行莅临河南矿山考察调研
Liu Wei, chairman of the CPPCC Henan Provincial Committee, and his delegation visited KUANGSHAN CRANE for investigation and research



山西省委原常委、大同市委原书记张吉福一行莅临河南矿山考察调研
Zhangjifu, former member of the Standing Committee of the Shanxi provincial Party committee and former Secretary of Datong Municipal Party committee, and his delegation visited KUANGSHAN CRANE for investigation and research



河南省人大常委会党组副书记、副主任马懿一行莅临河南矿山考察调研
Ma Yi, deputy secretary of the Party group and deputy director of the Standing Committee of Henan Provincial People's Congress, and his delegation visited KUANGSHAN CRANE for investigation and research



河南省政府原副省长戴伯华一行莅临河南矿山考察调研
Dai Bohua, former vice governor of Henan province government, and his delegation visited KUANGSHAN CRANE for investigation and research



河南省政府原副省长费东斌一行莅临河南矿山考察调研
Fei Dongbin, former vice governor of Henan provincial government, and his delegation visited KUANGSHAN CRANE for investigation and research



国家市场监管总局特种设备局局长崔钢(中)、国家市场监管总局特种设备局二级巡视员尚洪(右)行莅临河南矿山调研。
Cui Gang (middle), director of the special equipment Bureau of the State Administration of market supervision, and Shang Hong (right), a second class inspector of the special equipment Bureau of the State Administration of market supervision, visited KUANGSHAN CRANE for investigation.



中国重型机械工业协会常务副理事长景晓波、副理事长兼秘书长王继生一行莅临河南矿山调研。
Jingxiaobo, executive vice president of China Heavy Machinery Industry Association, Wang Jisheng, vice president and secretary general, and his delegation visited KUANGSHAN CRANE for investigation.



河南省出入境检验检疫局原副局长谢书升一行莅临河南矿山考察调研
Xie Shusheng, former deputy director of Henan entry exit inspection and Quarantine Bureau, and his delegation visited KUANGSHAN CRANE for investigation and research



河南省特种设备安全检测研究院党委书记刘勇一行莅临河南矿山考察调研
Liu Yong, Secretary of the Party committee of Henan Institute of special equipment safety testing, and his delegation visited HKUANGSHAN CRANE for investigation and research



长垣市委书记范文卿携市四大领导班子莅临河南矿山考察调研
Fan Wenqing, Secretary of Changyuan municipal Party committee, and the four leading groups of Changyuan visited KUANGSHAN CRANE for investigation and research

河南矿山创建以来，以公司创始人、党委书记崔培军为核心的高层团队充分发挥“领航者”的作用，引领河南矿山实现了高速发展。依靠领导团队和全员智慧，建立了独具特色的河南矿山孝文化体系，确立公司的使命、愿景和核心价值观，营造出以人为本、诚信经营的良好氛围，完善公司治理，履行社会责任，打造出追求卓越和健康发展的企业。

Since the establishment of Henan mine, the high-level team with the founder and party secretary cuipeijun as the core has given full play to the role of Navigator" and led the rapid development of KUANGSHAN CRANE. Relying on the leadership team and the wisdom of all staff, we have established a unique KUANGSHAN CRANE filial piety culture system, 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 an enterprise pursuing excellence and healthy development.



第十届孝文化感恩旅游节
The 10th filial piety culture Thanksgiving Tourism Festival

>> 孝善活动 Filial piety and kindness activities

公司注重以文化引领企业发展，发挥“孝善文化”的引导功能，用最朴实的行善积德、尽孝报恩来启迪员工追求真、善、美的情。公司提出了“三心”核心价值观，以孝心和諧家庭，以誠心團結同志，以熱心服務客戶。孝道文化使員工團結互助精神和服務意識不斷增強，拉近了企業和員工、客戶之間的距離，促進了企業間文化交流和全方位合作，樹立了良好的市場形象。形成了以使命、願景、價值觀為核心，獨具特色的企業文化。

The company pays attention to leading the development of the enterprise with culture, gives full play to the guiding function of "Filial piety and kindness culture", and inspires the enthusiasm of employees to pursue truth, goodness and beauty with the most simple kindness and filial piety. The company has put forward the core values of "three hearts", which are filial piety, harmonious family, sincere solidarity with comrades, and enthusiastic service to customers. Filial piety culture has continuously strengthened the spirit of solidarity and mutual assistance and service awareness of employees, shortened the distance between enterprises and employees and customers, promoted cultural exchanges and all-round cooperation between enterprises, and established a good market image. It has formed a unique corporate culture with mission, vision and values as the core.



公司党委书记崔培军在孝文化节上为员工父母鲜花、敬酒、发放慰问金和礼品
Cuipeijun, Secretary of the Party committee of the company, presented flowers, toasts, condolence funds and gifts to the employees' parents at the filial piety culture festival



第九届中秋孝文化节
The 9th Mid Autumn Festival of filial piety culture



孝文化节系列活动——“矿山孝星”评选
Filial piety culture festival series activities - "mine filial piety star" selection



每年春节前夕公司党委书记崔培军慰问老人
Cuipeijun, Secretary of the Party committee of the company, visits the elderly on the eve of the Spring Festival every year

>> 公益活动 Public benefit activities

公司秉承“造福桑梓、服务社会”的奉献精神，积极发挥企业在履行社会责任方面的表率作用，塑造了优秀企业的良好形象，实现了企业与家庭、社会的和谐发展。

Adhering to the dedication of "benefiting Sangzi and serving the society", the company has actively played an exemplary role in fulfilling its social responsibilities, created a good image of an excellent enterprise, and achieved the harmonious development of the enterprise, family and society.



第十八届捐资助学大会
The 18th student donation Conference



抗击疫情捐款捐物390万元
3.9 million yuan in donations to fight the epidemic



支持平安长垣建设
Support the construction of Ping'an placanticline



支持美丽乡村建设
Support the construction of beautiful villages

连续举办了九届中秋孝文化节，每年宴请员工父母6000余人；连续举办十届孝文化旅游节，每届组织员工父母千余人到全国各地观光旅游；连续开展了十八届捐助贫困大学生活动，累计3700余人。捐献扶贫济困、教育养老、平安建设、新农村建设等慈善公益事业，累计捐资突破1亿元。

The ninth Mid Autumn Festival of filial piety was held continuously, and more than 6000 employees' parents were entertained every year; The filial piety culture tourism festival has been held for ten consecutive times, and more than a thousand parents of employees are organized to travel around the country for sightseeing each time; Eighteen consecutive activities of donating poverty-stricken college students have been carried out, with a total of more than 3700 people. We donated more than 100million yuan to charity and public welfare undertakings such as poverty alleviation, education and elderly care, safe construction and new rural construction.

>> 企业活动 Enterprise activities



庆祝中国共产党建党101周年
Celebrate the 101st anniversary of the founding of the Communist Party of China



听党话，跟党走，企业兴。党员学习红旗渠精神
Listen to the party, follow the party, and the enterprise will prosper. Party members learn the spirit of the red flag canal



公司年度销售工作表彰大会
Annual sales commendation meeting of the company



公司年度最佳供应商颁奖
Award of the company's best supplier of the year



公司年度工作总结表彰大会
Annual work summary and commendation meeting of the company



开展团队建设活动
The 9th Mid Autumn Festival of filial piety culture

自主研发 科技创新

INDEPENDENT RESEARCH AND DEVELOPMENT TECHNOLOGICAL INNOVATION

河南矿山立足于起重机械领域，自主研发、科技创新，培育具有强大竞争力的核心技术。建有国家认定企业技术中心、省级工业设计中心、省级工程技术研究中心、中原学者工作站等研发平台，创新工作成果斐然。拥有中、高级技术人员200余人，担负着公司产品的开发设计与生产指导工作，为您的需求量身打造。

KUANGSHAN CRANE is based on the field of hoisting machinery, independent research and development, scientific and technological innovation, and cultivate core technologies with strong competitiveness. It has established R & D platforms such as national recognized enterprise technology center, provincial industrial design center, provincial engineering technology research center, Zhongyuan scholar workstation, and achieved remarkable results in innovative work. With more than 200 middle and senior technicians, it is responsible for the development, design and production guidance of the company's products, tailored to your needs.



创新是企业转型升级、提质增效的灵魂。公司被评定为自主创新领军企业、科技创新标兵企业、河南省技术创新示范企业等多项荣誉。每年安排充裕资金用于技术创新工作，实施“千人创新计划”，设立“公司创始人质量奖”、“董事长质量奖”、“总经理质量奖”、“工匠精神奖”等奖项，鼓励自主创新、重奖技术创新。

河南矿山是全国起重机械标准化技术委员会委员单位，公司紧跟国家标准化战略部署，运用标准化规范企业管理，采用先进标准提升产品质量和服务水平、增强企业核心竞争力。累计参与制修订国际、国家、行业标准50余项，其中国际标准6项。

Innovation is the soul of enterprise transformation and upgrading, improving quality and efficiency. The company has been rated as a leading enterprise in independent innovation, a model enterprise in scientific and technological innovation, and a demonstration enterprise in technological innovation in Henan Province. Every year, sufficient funds are allocated for technological innovation, the "thousand person innovation plan" is implemented, and "founder Quality Award", "Chairman Quality Award", "General Manager Quality Award", "craftsman Spirit Award" and other awards are established to encourage independent innovation and reward technological innovation.

KUANGSHAN CRANE is a member unit of the national Lifting Machinery Standardization Technical Committee. The company closely follows the national standardization strategic deployment, uses standardization to standardize enterprise management, adopts advanced standards to improve product quality and service level, and enhances the core competitiveness of enterprises. It has participated in the formulation and revision of more than 50 international, national and industrial standards, including 6 international standards.



河南矿山通过与科研院所、高等院校、国内外知名企业等开展战略合作，不断提升企业的创新能力，实现了技术上的持续创新，保持了核心竞争优势。

Through strategic cooperation with scientific research institutes, colleges and universities, well-known enterprises at home and abroad, KUANGSHAN CRANE has continuously improved the innovation ability of enterprises, achieved continuous technological innovation, and maintained its core competitive advantage.



承办第15届中日韩亚洲起重机安全论坛
Hosted the 15th China Japan South Korea Asia Crane Safety Forum



承办“矿源杯”第三届中国大学生起重机创意大赛
Undertake the third China University Student crane creative competition of "mineral source Cup"

序号	标准编号	标准名称	标准类型	标准状态	备注
1	GB 6067.1-2017	起重机械安全规程 第1部分：总则	国家标准	现行	
2	GB 6067.2-2017	起重机械安全规程 第2部分：桥式和门式起重机	国家标准	现行	
3	GB 6067.3-2017	起重机械安全规程 第3部分：缆索式起重机	国家标准	现行	
4	GB 6067.4-2017	起重机械安全规程 第4部分：桅杆式起重机	国家标准	现行	
5	GB 6067.5-2017	起重机械安全规程 第5部分：流动式起重机	国家标准	现行	
6	GB 6067.6-2017	起重机械安全规程 第6部分：塔式起重机	国家标准	现行	
7	GB 6067.7-2017	起重机械安全规程 第7部分：升降机	国家标准	现行	
8	GB 6067.8-2017	起重机械安全规程 第8部分：抓斗起重机	国家标准	现行	
9	GB 6067.9-2017	起重机械安全规程 第9部分：轮胎式集装箱门式起重机	国家标准	现行	
10	GB 6067.10-2017	起重机械安全规程 第10部分：铁路起重机	国家标准	现行	



累计获得授权专利500余项，其他科技成果、科技奖项100余项。
It has obtained more than 500 authorized patents and more than 100 other scientific and technological achievements and awards.



承办第五届、第七届中国·长垣国际起重装备博览交易会
Undertake the 5th and 7th China Changyuan International Lifting Equipment Expo and trade fair



每年举办河南矿山起重机发展高峰论坛
Henan mining Crane Development Summit Forum is held every year

起重机柔性化生产线

Crane flexible production line

公司建有36条智能柔性生产线，涵盖起重机主梁、端梁、筋板、小车等生产环节，全面实现3大类110余种起重机的柔性化生产，根据客户需求应用模块化、成组和产线重构等技术，实现生产资源快速调整，满足日益增长的定制化产品需求。改变传统单件分散式工作方法，将起重机生产制造发展方向引向智能化、柔性化生产模式。

其中，主梁成型生产线采用连续滚压工艺，建设多条连续滚压生产线及纵剪开平线，实现不同规格起重机主梁连续成形；焊接生产线采用焊接机器人、高端焊机、精密位移检测装置等多项智能装备，确保产品一致性的同时极大的提高了的产品质量和效率。

The company has built 36 intelligent flexible production lines, covering the production links of crane girder, end beam, rib plate, trolley, etc., fully realizing the flexible production of more than 110 kinds of cranes in three categories, and applying modularization, grouping, production line reconstruction and other technologies according to customer needs, so as to realize the rapid adjustment of production resources and meet the growing demand for customized products. Change the traditional single piece decentralized working method, and lead the development direction of crane manufacturing to intelligent and flexible production mode.

Among them, the main beam forming production line adopts the continuous rolling process, and multiple continuous rolling production lines and longitudinal cutting and leveling lines are built to realize the continuous forming of main beams of cranes of different specifications; The welding production line adopts welding robots, high-end welding machines, precision displacement detection devices and other intelligent equipment to ensure product consistency and greatly improve product quality and efficiency.



车轮锻造碾压复合工艺流程线

Wheel forging and rolling compound process line

车轮锻造碾压复合工艺流程线，开创了国内普通电动单梁桥式起重机使用此工艺车轮的先河。该工艺开发了铸造初次毛坯、二次锻压、三次碾压成型的创新性复合技术，实现了高致密性车轮的高精度、绿色化、流水线式生产，推动传统铸造、锻造生产模式创新发展。

锻造碾压车轮材料密度大、硬度高、耐磨性好，增加了起重机使用寿命，不仅提高了生产效率，更使产品的质量和外观均得到很大提升，相比铸造工艺，热能损耗减少50%，能源利用率提高了40%，实现了节能减排生产，对于减低碳排放，保护环境 also 具有重要意义。

The wheel forging and rolling compound process line has created a precedent for the domestic ordinary electric single beam bridge crane to use this process wheel. This process develops innovative composite technology of casting primary blank, secondary forging and tertiary rolling, realizes high-precision, green and assembly line production of high-density wheels, and promotes the innovative development of traditional casting and forging production modes.

Forged and rolled wheels have 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 products. Compared with the casting process, the heat loss is reduced by 50%, and the energy utilization rate is increased by 40%. Energy conservation and emission reduction production are realized, which is also of great significance for reducing carbon emissions and protecting the environment.



车轮锻造碾压复合工艺智能化流水线
Intelligent assembly line of wheel forging and rolling composite process

起重机远程运维云平台

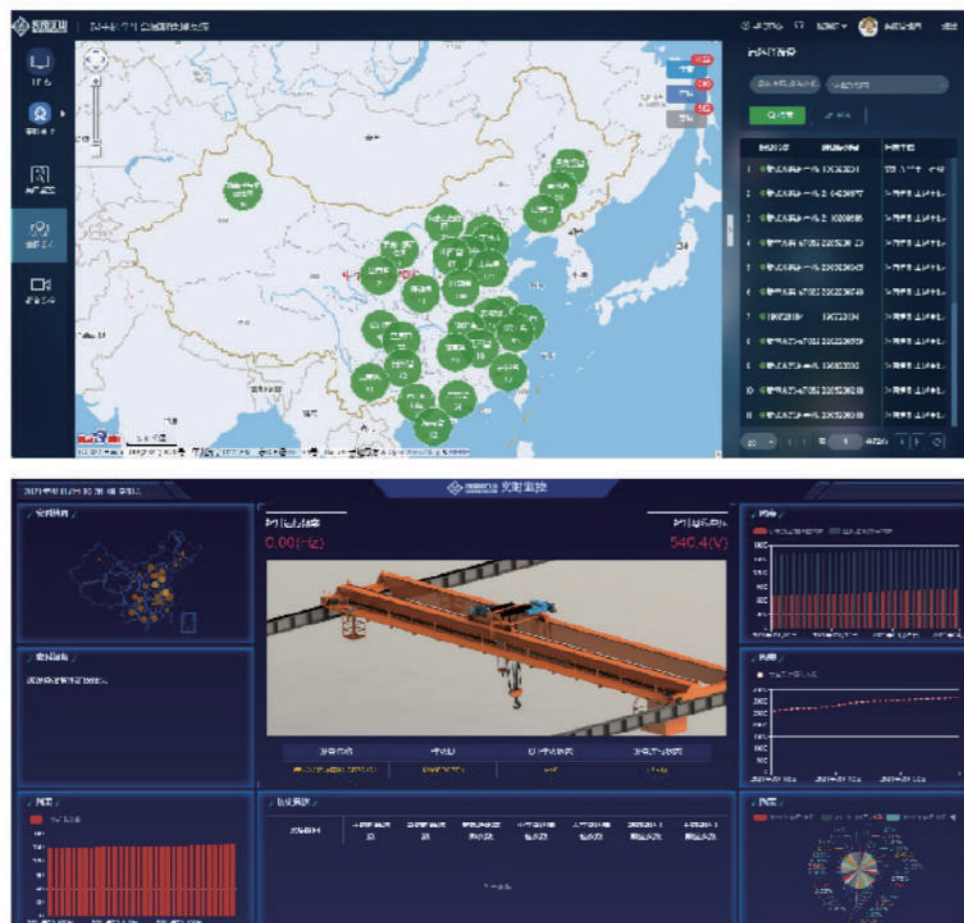
Crane remote operation and maintenance cloud platform

起重机远程运维是基于云服务及物联网模块开发的新功能，其建立在产品远程运维管理平台集成智能传感、大数据和5G等技术。通过该系统可以实现基于运行数据的产品远程调试、运维、预测性维护和产品设计的持续改进。另外随着变频器、PLC在起重机上的广泛应用，起重机远程调试、运维越来越成为可能，尤其是在环境恶劣的场合通过起重机远程运维功能可以快速处理现场问题，使技术人员在办公室就如“亲临现场”，极大提升了工作效率并能提供持续设计改进点。

智能云服务实现了起重机的远程监测、健康评估、安全诊断、智能维护的全生命周期管理，全面推动公司从“生产型制造”向“智能服务型制造”的转型升级。

Crane remote operation and maintenance is a new function developed based on cloud services and the Internet of things module. It is built on the product remote operation and maintenance management platform to integrate smart sensing, big data, 5g and other technologies. The system can realize the remote debugging, operation and maintenance, predictive maintenance and continuous improvement of product design based on operation data. In addition, with the wide application of frequency converter and PLC in cranes, remote commissioning, operation and maintenance of cranes are becoming more and more possible, especially in harsh environments. The remote operation and maintenance function of cranes can quickly deal with on-site problems, so that technicians can "visit the site" in the office, greatly improving work efficiency and providing continuous design improvement points.

Intelligent cloud service realizes the full life cycle management of crane remote monitoring, health assessment, safety diagnosis and intelligent maintenance, and comprehensively promotes the transformation and upgrading of the company from "production-oriented manufacturing" to "intelligent service-oriented manufacturing".



基于大数据和云平台的智能制造生产管理系统

Intelligent manufacturing production management system based on big data and cloud platform

该系统基于大数据和云平台，将公司高端数控机床、工业机器人、视觉识别装置和精密检测装置、数据服务器和网络服务器、客户端、手机端和大屏相连，构建生产管理系统，主要包括信息监控模块、数据管理模块、效能分析模块和零件统计模块，包括实现了联网设备的实时状态和信息监控、远程数据查看和设定、远程故障诊断和维护、实时运行效率和效能分析、零件数量统计和质量分析等智能应用。

该系统设备全部互联互通，真正实现关键零件生产的智能化、信息化和自动化。打破了传统生产模式，突破了老旧思想束缚，具有理念创新、技术先进、节能增效和绿色生产等显著特征。使生产效率提升200%，产能提升80%，每年产生4亿元经济效益，大幅地提升了企业竞争力，有力地推动了起重机行业的快速发展。

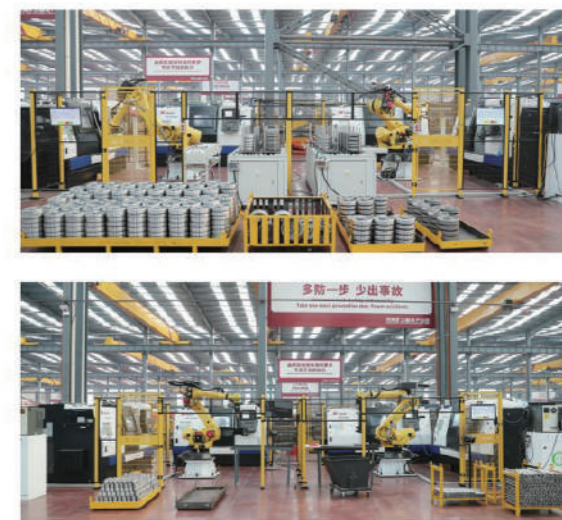
Based on big data and cloud platform, the system connects the company's high-end CNC machine tools, industrial robots, visual recognition devices and precision detection devices, data servers and network servers, clients, mobile phones and large screens to build a production management system, which mainly includes information monitoring module, data management module, efficiency analysis module and parts statistics module, including the realization of real-time status and information monitoring of networked devices Intelligent applications such as remote data viewing and setting, remote fault diagnosis and maintenance, real-time operation efficiency and efficiency analysis, part quantity statistics and quality analysis.

All the equipment of the system are interconnected, which truly realizes the intellectualization, informatization and automation of the production of key parts. It breaks the traditional production mode, breaks through the shackles of old ideas, and has the remarkable characteristics of conceptual innovation, advanced technology, energy conservation and efficiency increase, and green production. The production efficiency is increased by 200%, the production capacity is increased by 80%, and the annual economic benefit is 400million yuan, which greatly improves the competitiveness of enterprises and effectively promotes the rapid development of the crane industry.



智能制造大数据管理平台系统

Intelligent manufacturing big data management platform system



起重机箱型梁机器人焊接生产线

Robot welding production line for lifting chassis beam

重机箱型梁机器人焊接生产线，对包括盖板、腹板、隔板、筋板在内的所有结构件实施机器人焊接，整个生产过程有数字化和智能化联网控制，实现了基于数字化的起重机箱型梁智能制造。目前公司安装起重机箱型梁机器人焊接生产线共计50条，产品全流水线自动化率达到85%。

The robot welding production line of heavy box girder implements robot welding for all structural parts including cover plate, web plate, clashboard and rib plate. The whole production process has digital and intelligent networked control, realizing the intelligent manufacturing of heavy box girder based on digitization. At present, the company has installed a total of 50 robot welding production lines for lifting chassis beams, and the automation rate of the whole production line has reached 85%.



双梁主梁内缝机器人焊接工作站

Robot welding workstation for inner seam of double beam main beam



单梁筋板组装焊接工作站

Single beam rib plate assembly and welding workstation



单梁端梁机器人焊接工作站

Single beam end beam robot welding workstation



单梁主梁内缝焊接机器人

Welding robot for inner seam of single beam main beam



定梁龙门移动式加工中心

Fixed beam gantry mobile machining center



数控落地铣床

CNC Floor Boring and milling machine



密封箱式多用气体渗碳氮化炉

Sealed box type multipurpose gas carburizing and nitriding furnace



智能机器人涂装生产线

Intelligent robot coating production line



600吨桥式起重机试验台

600t bridge crane test bench



电动葫芦试验台

Electric hoist test bench

NEW TYPES OF CRANES

新型桥式起重机

KSQ型桥式起重机

本起重机的设计、制造及检验均执行最新颁布的国家有关标准，等效采用部分FEM、DIN、IEC等国外标准，与原有通用QD型桥吊产品相比，自重减轻约15~30%，最大轮压减小约10~35%，可以降低起重机对厂房结构的要求，节约厂房制造成本。传动机构的核心部件减速器全部采用硬齿面、高精度齿轮副，加上钢制卷筒、锻造车轮以及变频调速系统的应用，使得该型号起重机成为传统通用桥式起重机的更新换代产品，适用于机械制造、装配、石油化工、仓储物流、电力建设、造纸、铁路等行业。

KSQ Bridge Crane

Design, production and inspection carry out the last issued relevant national standard, equivalently adopts some foreign criteria including FEM, DIN and IEC. Compared with the general QD bridge crane, its weight is reduced by about 15~30%, the maximum wheel pressure is reduced by about 10~35%, which can the requirements of crane for factory building structure and reduce production cost. As the core component of driving mechanism, reducer gear pair with hard tooth surface and high accuracy, together with steel reel, forged wheel and variable-frequency speed regulating system, which makes this type of crane become renewal product of traditional general bridge crane and applied in industry of machinery production, assembling, petrochemicals, warehouse logistics, electric power construction, papermaking and railways.



KSSL型电动葫芦桥式起重机

KSSL型电动葫芦桥式起重机采用新型电动葫芦作为起升机构，大、小车运行采用三合一驱动形式，整体外形尺寸小，自重轻。

新型电动葫芦采用C型结构，减速器。起升电机，减速器、卷筒和起升限位开关的一体化紧凑型设计节约了用户的使用空间。标准的导绳器采用耐磨性强和自润滑性能好的工程塑料加工而成。

KSSL Electric Hoist Bridge Crane

KSSL Electric Hoist Bridge Crane uses new electric hoist as hoisting mechanism. Crane and trolley use three-in-one form and the overall boundary dimension is small and it also is light.

New electric hoist uses reducer with C-type structure. The integration compact design of lifting motor, reducer, coiling block and lifting limit switch saves space for user. Standard rope guide is made by using engineering plastics with strong abrasive resistance and good self-lubricating property, and enhancing safety of operation. Low speed with heavy load and high speed with light load improves production efficiency.



RAIL TYPE CONTAINER GANTRY CRANE

轨道式集装箱门式起重机



高精度集装箱吊具
High precision container spreader

适用于国际标准集装箱的搬运及装卸，该集装箱采用牵引小车形式，使整机结构轻便，性能先进，生产效率高，机动性好，对地面不平度敏感性小。整机采用电缆卷筒供电。

applicable to remove, load and unload international standard containers. Form of drawing trolley is adopted to achieve light structure, advanced performance, high production efficiency, fine maneuverability and small sensibility to unflatness of the ground. The crane is powered by cable drum.



MG DOUBLE-BEAM GANTRY CRANE WITH HOOK

MG型双梁吊钩门式起重机

MG型双梁吊钩门式起重机主要由门架、起重小车、大车运行机构、司机室和电气控制系统组成。

门架为箱形结构，主梁采用双梁偏轨形式，支腿根据用户要求分A形和U形两种。

操作方式采用闭式司机室，内有可调式座椅，底板铺设绝缘垫，窗玻璃采用钢化玻璃，配有灭火器、电风扇，可根据用户要求配置冷暖空调、讯响器、对讲机等附属设备。

MG double-beam gantry crane with hook is composed of gantry, crane crab, trolley traveling mechanism, cab and electric control system.

The gantry is of a box-shape structure, the girder is bias track double girder and the leg is divided into Type A and Type U according to user's requirements.

The closed cab is employed for operation, where there are adjustable seat, insulating mat on the floor, toughened glass for the window, fire extinguisher, electric fan and auxiliary equipment such as air conditioner, acoustic alarm and interphone which can be furnished as required by users.



双梁门式起重机
Double-beam Gantry Crane

MG GANTRY CRANE FOR SUBWAY CONSTRUCTION

MG型地铁施工门式起重机

MG型地铁施工用门式起重机是根据地下施工的使用要求及工况，在通用门式起重机的基础上研制出来的专用门吊，专用于地下施工时翻转倒土及吊运物品。

起重机由小车、门架、大车运行机构、液压翻转机构、司机室及电气设备组成。小车上设有液压翻转机构，该机构由液压工作站和翻渣钩组成。挂梁中间设有吊钩，用于吊运一般物件。

大车运行机构采用8轮4驱动形式。固定在台车上的电机通过立式减速器驱动车轮，并设有防风用夹轨器，起重机正常工作时，夹轨器的夹钳离开轨道，当起重机停止工作时，操作人员将夹钳放下，夹住轨道，防止起重机滑动。



MG gantry crane for subway construction is a special gantry crane which is developed on the basis of general gantry crane according to the operating requirements and working conditions of underground construction.

The crane consists of crab, gantry, trolley travelling mechanism, hydraulic turnover mechanism, cab and electric equipment. On the crab is furnished a hydraulic turnover mechanism, which is composed of a hydraulic work station and a slag-turning hook. At the middle of the carrier-beam is a hook, which is used to lift common articles.

The trolley travelling mechanism is 4-wheel drive in 8 wheels. The motor fixed on the trolley drives wheels by vertical speed reducer. A windproof rail clamp is equipped. It is detached from the rail when the crane is in normal operation, and when the crane stops working, the operator will put down the clamp to catch the rail so as to avoid the crane sliding.



MG DOUBLE-BEAM TRUSS GANTRY CRANE

MG型双梁桁架门式起重机

MG型双梁桁架门式起重机其主要由门架、起重小车、大车运行机构、司机室和电气控制系统组成。

门架为桁架结构，具有结构轻、抗风力强等优点。包括主梁、上端梁、支腿、下端梁、走行台车及走台栏杆等。主梁采用三角桁架结构，上面铺设轨道，供起重小车沿主梁方向作横向移动。支腿为桁架结构，由型钢组焊。走台用来放置电气设备作检修用，外侧设有防护栏杆。

操作方式采用闭式司机室，内有可调式座椅，底板铺设绝缘垫，窗玻璃采用钢化玻璃，配有灭火器、电风扇，可根据用户要求配置冷暖空调、讯响器、对讲机等附属设备。



MG Double-beam truss gantry crane is comprised of gantry, crane crab, trolley travelling mechanism, cab and electric control system.

The gantry, of a truss structure and having advantages of light structure, strong wind resistance and so on, is composed of girder, upper end girder, leg, lower end girder, travelling trolley and platform railing. The girder is of a triangular truss structure, on which laid rails for crane crab to transversely move along the girder. The legs, of a truss structure, are welded by section steel. The platform, which is used to place electric equipment and used for repair, is furnished with protection railing outside.

The closed cab is employed for operation, where there are adjustable seat, insulating mat on the floor, toughened glass for the window, fire extinguisher, electric fan and auxiliary equipment such as air conditioner, acoustic alarm and interphone which can be furnished as required by users.



MG_G ROAD-BRIDGE GANTRY CRANE

MG_G型路桥门式起重机

MG_G路桥门式起重机主要用于桥梁建设，工作速度慢，由门架、卷扬机小车、大车运行机构、司机室和电气控制系统组成。

门架为桁架结构，具有结构轻、抗风力强等优点。包括主梁、上端梁、支腿、下端梁、走行台车及走台栏杆等。主梁采用三角桁架结构，上面铺设轨道，供小车沿主梁方向作横向移动。支腿采用箱形或钢管两种形式。



MG_G road-bridge gantry crane is mainly used for bridge construction which is worked at a low rate. It is composed of gantry, windlass crab, trolley travelling mechanism, cab and electric control system.

The gantry, of a truss structure and having advantages of light structure, strong wind resistance and so on, is composed of girder, upper end girder, leg, lower end girder, travelling trolley and platform railing. The girder is of a triangular truss structure, on which laid rails for crane crab to transversely move along the main girder. The legs are of a box structure or steel tube structure.



ME SHIPBUILDING GANTRY CRANE

ME型造船门式起重机

ME型造船门式起重机是一种大起重量、大跨度、大起升高度的门式起重机，专用于船坞进行大型船体分段运输、对接及翻转作业。

主要技术特点：

- 具有单吊、抬吊、空中翻转、空中水平微转等多种功能；
- 门架有单主梁型和双主梁型两种，为合理使用材料，主梁采用变截面优化设计；
- 上小车设有双主钩，分别置于主梁两外侧；
- 下小车设有主、副两钩，置于两主梁中心；
- 上、下小车可以相互穿越作业；
- 所有工作机构均采用变频调速；
- 刚性支腿侧主梁顶面设有旋臂起重机，以完成上、下小车的维修作业；
- 为防止暴风袭击，设有安全可靠的夹轨器、地锚等防风装置。



ME shipbuilding gantry crane, a type of gantry crane of heavy lifting load, large span and high lifting altitude, is special for fragmented transport, end-to-end joint and turning operation of large ship hulls.

Main technical characteristics:

It have multiple functions of single hanging, hoisting, turnover in the air, slight horizontal turnover in the air and so on;

The gantry falls into two categories: single girder and double girder. To rationally utilize materials, the girder adopts optimum design of variable section;

The upper crab has two main hooks, which are separately fixed at the outside of the girder.

The lower crab has a main hook and a secondary hook, which are fixed at the center of the two girders;

Both the upper crab and the lower crab can cross each other for operation.

All operating mechanisms employ frequency control;

On the top of the girder at the side of rigid leg is equipped a jib crane to accomplish maintenance of upper and lower crabs.

To prevent storm attack, such safe and reliable anti-wind devices as rail clamp and ground anchor are furnished.



L GANTRY CRANE

L型门式起重机

L型门式起重机主要由门架、起重小车、大车运行机构、司机室和电气控制系统组成。

门架为箱形结构，起重量20t以下时小车采用垂直反滚轮式，大于20t时小车采用水平反滚轮式，在主梁一侧运行。主梁采用单梁偏轨形式，支腿为L形，吊运空间大，过跨能力强，便于将物件从跨内转运到悬臂下。

操作方式采用闭式司机室，内有可调式座椅，底板铺设绝缘垫，窗玻璃采用钢化玻璃，配有灭火器、电风扇，可根据用户要求配置冷暖空调、讯响器、对讲机等附属设备。

L gantry crane is mainly composed of gantry, crane crab, trolley travelling mechanism, cab and electric control system.

The gantry is of a box-shape structure. The crab adopts vertical reaction wheel when the lifting load is below 20t, and horizontal reaction wheel when above 20t to run at the girder side. The girder is of single-girder bias track and the leg is L-shaped, so that the lifting space is large and the spanning ability is strong, making it easy to convey articles from the span to under the jib.

The closed cab is employed for operation, where there are adjustable seat, insulating mat on the floor, toughened glass for the window, fire extinguisher, electric fan and auxiliary equipment such as air conditioner, acoustic alarm and interphone which can be furnished as required by users.



MH GANTRY CRANE WITH ELECTRIC HOIST

MH型电动葫芦门式起重机

MH型电动葫芦门式起重机是有轨运行的中小型起重设备，主要由门架（主梁、支腿、下横梁等）、起升机构、运行机构及电控部分组成，以电动葫芦作为起升机构，工作时沿主梁工字钢下翼缘运行。门架结构分箱形和桁架两种，箱形工艺好，制作方便；桁架自重轻，抗风能力强。整机具有自重轻、结构简单、安装维修方便等特点，适用于中小起重量范围内的厂矿、货场及仓库等室外场所作一般装卸吊运工作，禁止在有易燃、易爆及充满腐蚀性气体的环境中工作。

操作方式设有地面手柄、无线遥控和司机室等三种操作形式。

MH gantry crane with electric hoist is middle- and small-size lifting equipment which runs at rails. It is mainly composed of gantry (girder, leg, lower cross beam, etc.), hoisting mechanism, travelling mechanism and electric control part. With the electric hoist as hoisting mechanism, it runs along the lower flange of the I-steel of the girder. The girder is of box-shape structure and truss structure. The former boasts good techniques and easy fabrication, and the latter is light in dead weight and strong in wind resistance. The complete machine features light dead weight, simple structure and easy installation and maintenance, so that it is applicable to outdoor operational sites of medium and small lifting load for general handling such as factories and mines, freight yards and warehouses. It is prohibited to operate in the environment with inflammable, explosive and corrosive gas.

It has three operation modes: ground handle, wireless remote control and cab.



MGB, MB SEMI-GANTRY CRANE

MGB、MB型半门式起重机



MGB double-girder semi-gantry crane with hook

The double-girder semi-gantry crane with hook is mainly composed of gantry, crane crab, trolley travelling mechanism and electric control system. The gantry, of a box-shape structure, has a leg at its one side and runs along the ground rails, and has no leg at the other side and runs along the rails on the factory workshop. The closed cab is employed for operation, where there are adjustable seat, insulating mat on the floor, toughened glass for the window, fire extinguisher, electric fan and auxiliary equipment such as air conditioner, acoustic alarm and interphone which can be furnished as required by users. The rest structure and configuration are the same as the MG double-girder gantry crane.

MGB型双主梁吊钩半门式起重机

双主梁吊钩半门式起重机主要由门架、起重小车、大车运行机构和电气控制系统组成。门架为箱形结构，一侧设有支腿，沿地面轨道上运行，另一侧无支腿，沿厂房上部轨道运行。操作方式采用闭式司机室，内有可调式座椅，底板铺设绝缘垫，窗玻璃采用钢化玻璃，配有灭火器、电风扇，可根据用户要求配置冷暖空调、讯响器、对讲机等物品。其余结构和配置与MG型双主梁门式起重机一致。



MB semi-gantry crane with electric hoist

The semi-gantry crane with electric block, a type of middle- and small-size lifting equipment which runs along rails, is mainly composed of gantry (girder, leg, lower cross beam etc.), hoisting mechanism, travelling mechanism and electric control part. With the electric hoist as hoisting mechanism, it runs along the lower flange of the I-steel of the girder. The gantry has a leg at its one side and runs along the ground rails, and has no leg at the other side and runs along the rails on the factory workshop. The rest structure and configuration are the same as the MH gantry crane with electric block.

MB型电动葫芦半门式起重机

电动葫芦半门式起重机是有轨运行的中小型起重设备，主要由门架（主梁、支腿、下横梁等）、起升机构、运行机构及电控部分组成，以电动葫芦作为起升机构，工作时沿主梁工字钢下翼缘运行。门架一侧设有支腿，沿地面轨道上运行，另一侧无支腿，沿厂房上部轨道运行，其余结构和配置与MH型电动葫芦门式起重机一致。

YZS CASTING BRIDGE CRANE

YZS型铸造桥式起重机

铸造桥式起重机是钢厂冶炼车间的主要起重运输设备，用于冶炼过程中液态金属的转运、浇注及兑铁水等作业，YZS型采用主副双小车、四梁四轨结构，由桥架、主小车、副小车、吊钩梁、大车运行及电气部分组成，主小车在桥架外侧的主梁轨道上运行，副小车在桥架内侧的副梁轨道上运行，主小车取物装置为固定间距的吊钩梁，用来吊运钢水包，副小车取物装置为吊钩，在主小车上穿越运行，与主钩配合以完成倾倒钢水、钢渣及其它辅助性吊运作业。

大车运行机构和主要电气设备均安装在主梁内，主梁电气室采用岩棉保温，内装有冷风机。为了减轻钢水对金属结构件的热辐射，在主梁底部沿跨度方向设有隔热板。

大车运行机构采用四角驱动形式。

起重机配有专用电子秤，在司机室内和桥架上均有明显的显示装置。主起升机构设有超速开关。

Casting bridge cranes are the main handling equipment for smelting workshop of steel works. They are used for conveying, pouring and hot metal charging of liquid metal in smelting process. YZS casting bridge crane, adopting main crab and auxiliary crab, and four-girder and four-rail structure, is composed of bridge, main crab, auxiliary crab, connecting traverse, trolley traveling mechanism and electric part. The main crab runs at the rails outside the bridge, and the auxiliary crab runs at the rails inside the bridge. The main crab employs the connecting traverse as the load handling device to hoist steel ladle, and the auxiliary crab, employing the hook as the load handling device, runs across under the main crab to accomplish pouring of molten steel and steel slag, and other auxiliary hoisting in coordination with the main hook.

The trolley travelling mechanism and main electric equipment are installed in the girder. The girder's electric panel room employs rock wool for heat insulation, and has an air cooler inside. To reduce heat radiation of molten steel to metal structural members, a thermal baffle is set along the span direction at the bottom of the girder.

The trolley travelling mechanism adopts four-corner drive.

The crane is equipped with a special electronic scale, and there are display devices in the cab and on the bridge. The main hoisting mechanism is furnished with an overspeed switch.



YZ CASTING BRIDGE CRANE

YZ型铸造桥式起重机

YZ型铸造桥式起重机采用双梁单小车结构，主要由桥架、小车、吊钩梁、大车运行及电气部分组成，主钩取物装置为固定间距的吊钩梁，用来吊运钢水包，副钩用来与主钩配合以完成倾倒钢水、钢渣及其它辅助性吊运作业。

大车运行机构和主要电气设备均安装在主梁内，主梁电气室采用岩棉保温，内装有冷风机。为了减轻钢水对金属结构件的热辐射，在主梁底部沿跨度方向设有隔热板。

大车运行机构采用四角驱动形式。

起重机配有专用电子秤，在司机室内和桥架上均有明显的显示装置。主起升机构设有超速开关。

YZ casting bridge crane

YZ casting bridge crane, of a double-girder single-crab structure, is mainly composed of bridge, crab, connecting traverse, trolley travelling mechanism and electric part. The main hook employs the constant-spacing connecting traverse as the load handling device to hoist steel ladle and the auxiliary hook acts in concert with the main hook to accomplish pouring of molten steel and steel slag, and other auxiliary hoisting.

The trolley travelling mechanism and main electric equipment are installed in the girder. The girder's electric panel room employs rock wool for heat insulation, and has an air cooler inside. To reduce heat radiation of molten steel to metal structural members, a thermal baffle is set along the span direction at the bottom of the girder.

The trolley travelling mechanism adopts four-corner drive.

The crane is equipped with a special electronic scale, and there are display devices in the cab and on the bridge. The main hoisting mechanism is furnished with an overspeed switch.



QD ELECTRIC DOUBLE-GIRDER BRIDGE CRANE WITH HOOK

QD型电动双梁吊钩桥式起重机

QD型电动双梁吊钩桥式起重机是目前应用较为广泛的起重机械，其主要由箱形桥架、起重小车、大车运行机构和电气控制系统组成。取物装置是吊钩。

主梁上面铺设轨道，供起重小车沿主梁方向作横向移动。主梁与箱型端梁焊接而成，端梁中间布置有接头，螺栓连接，供桥架分拆运输。走台用来放置大车运行机构、电气设备及作检修用。

操作方式设有地面手柄、无线遥控和司机室三种操作形式。驾驶室有开式、闭式两种，内有可调式座椅，地板铺设绝缘垫，窗玻璃采用钢化玻璃，配有灭火器、电风扇，可根据用户要求配置冷暖空调、讯响器、对讲机等物品。

起重机可配挂马达抓斗、电磁吸盘等取物装置，满足吊运多种类型物料的需求。

本起重机工作级别A3~A7，常用起重量为3~250t。适宜在环境温度-10℃~40℃，相对湿度不大于85%的工厂、仓库及货场等处作装卸吊运工作，禁止在易燃、易爆以及充满腐蚀性气体的环境中工作。

QD electric double-girder bridge crane with hook is the widely used hoisting machinery currently. It is mainly comprised of box-shape bridge, crane crab, trolley travelling mechanism and electric control system. The load handling device is the hook.

On the girder laid rails for crane crab to transversely move. The girder is welded with the box-shaped end girder. At the middle of the end girder are joints which are fastened with bolts for fragmented transportation of bridges. The platform is used to place trolley travelling mechanism, electric equipment and used for repair.

It has three operation modes: ground handle, wireless remote control and cab. There are two kinds of cab: open cab and closed cab, where there are adjustable seat, insulating mat on the floor, toughened glass for the window, fire extinguisher, electric fan and auxiliary equipment such as air conditioner, acoustic alarm and interphone which can be furnished as required by users.

The crane can be furnished with load handling devices such as motor grab, electromagnetic chuck to meet the requirements of hoisting varied types of materials.

The crane, of a classification group of A3~A7, has a commonly used lifting load of 3~250t, so that it is suitable to work in factories, warehouses and freight yards where the ambient temperature is -10℃~40℃ and the relative humidity is not more than 85%. It is prohibited to work in the environment with inflammable, explosive and corrosive gas.



YC UPPER ROTARY BRIDGE CRANE

YC型上旋转桥式起重机

本起重机主要采用挂梁吊运钢坯等长件物品，配置电磁吸盘进行吊装，由箱形桥架、起重小车、大车运行机构、司机室和电气控制系统组成，配有停电保磁系统。

主梁采用正轨箱型结构，上面铺设轨道，供起重小车沿主梁方向作横向移动。主梁与箱型端梁焊接而成，端梁中间布置有接头，螺栓连接，供桥架分拆运输。走台用来放置大车运行机构及作检修用，外侧设有防护栏杆。

起重小车由上、下小车组成，下小车为运行小车。上小车为旋转小车，布置有起升机构和旋转机构。上小车上设有回转用的环形轨道，配合水平轮，达到旋转长件物品的目的。

The crane mainly employs hung girder to hoist long objects like billets, and is equipped with electromagnetic chuck to hoist. It is composed of box-shaped bridge, crane crab, trolley travelling mechanism, cab and electric control system. It is also equipped with blackout magnetic system.

The girder is a middle-rail box girder, on which laid rails for crane crab to transversely move. The girder is weld with the box-shaped end girder. At the middle of the end girder are joints which are fastened with bolts for fragmented transportation of bridges. The platform is used to place trolley travelling mechanism, electric equipment and for repair. It is furnished with protection railing outside.

The crane crab consists of upper crab and lower crab. The latter is travelling crab and the former is rotating crab. They are equipped with hoisting mechanism and rotary mechanism, respectively. The upper crab is furnished with a circular orbit for rotating, which acts in concert with horizontal wheels to fulfill the purpose of rotating long articles.



QZ ELECTRIC GRAB BRIDGE CRANE

QZ型电动抓斗桥式起重机

QZ型电动抓斗桥式起重机主要由箱形桥架、抓斗小车、大车运行机构、司机室和电气控制系统组成。取物装置为能抓取散装物料的抓斗。

抓斗小车上有关闭机构和起升机构，抓斗以四根钢丝绳分别悬挂在关闭机构和起升机构上。关闭机构驱动抓斗闭合，抓取物料，当斗口闭合后，立即开动起升机构，使四根钢丝绳平均受载进行起升工作。卸料时只开动关闭机构，斗口随即张开，倾斜物料。

本起重机除起升机构不同外，其余结构部分与吊钩桥式起重机基本相同。



QZ electric grab bridge crane is mainly comprised of box-shaped bridge, grab crab, trolley travelling mechanism, cab and electric control system. The load handling device is the grab which is able to capture bulk materials.

The grab crab has switching mechanism and lifting mechanism. The grabs are separately hung over the switching mechanism and lifting mechanism with four steel wire ropes. The switching mechanism drives the grab to close to grab materials. When the grab is closed, the lifting mechanism shall be started immediately to hoist the four evenly loaded steel wire ropes. Discharging only needs to start the switching mechanism, which opens the grab to pour materials.

Except the lifting mechanism, the crane is basically the same as the bridge crane with hook.

QL ELECTRIC BRIDGE CRANE WITH CARRIER-BEAM

QL型电动挂梁桥式起重机



QL型挂梁桥式起重机适用于吊运较长的型钢、棒料、板材、废钢、盘圆等，吊钩和挂梁可拆连接，下面配置电磁吸盘或夹钳或特殊群钩进行吊装，挂梁布置形式分垂直于主梁或平行于主梁两种。

QL bridge crane with carrier-beam is applicable to hoisting long section steel, bars, plates, scrap steel, mill coil and so on. The hook and carrier-beam are releasable connection. They are furnished with electromagnetic chuck or clincher or special group hook underneath to hoist things. There two layout forms of carrier-beam: perpendicular to the girder or parallel to the girder.

LH DOUBLE-GIRDER CRANE WITH ELECTRIC HOIST

LH型电动葫芦双梁起重机

LH型电动葫芦双梁起重机由箱形桥架、大车运行机构、小车、电气设备四部分组成，采用固定式电动葫芦安装在小车架上作起升机构，小车运行采用LD型传动，大车运行分LD型传动和QD型传动两种。结构简便轻巧，具有整体高度小，自重轻等特点，适用于中小起重重量范围内的厂矿、车间及仓库等工作场所。

操作方式设有地面手柄、无线遥控和司机室三种操作形式。驾驶室有开式、闭式两种。



LH double-girder crane with electric hoist consists of box-shaped bridge, trolley travelling mechanism, crab and electric equipment. It employs fixed electric hoist which is fitted on crab frame as hoisting mechanism. The crab uses LD drive to run, while the trolley adopts LD drive or QD drive. The structure, simple and convenient, features low entire height and light dead weight, so that it is applicable to operational sites of medium and small lifting load such as factories and mines, workshops and warehouses. It has three operation modes: ground handle, wireless remote control and cab. The cab has two types: open cab and closed cab.



QY OVERHEAD ISOLATION CRANE

QY型绝缘桥式起重机

QY型绝缘桥式起重机的结构形式与吊钩桥式起重机基本相同，只是为了防止在工作过程中，带电设备有可能通过被吊运的物件传到起重机上，危及司机的生命安全，故在吊钩组、小车架、小车轮（或者在小车轨道下）三个部位，设置了三道绝缘装置。绝缘材料多采用环氧酚醛玻璃布板。适用在冶炼铝、镁的工厂。



QY overhead isolation crane is basically the same as bridge crane with hook in terms of structural style. To avoid the charged equipment which may conduct electricity to the crane by hoisted articles from endangering the driver's life, insulation equipment is set on the hook group, crab frame, crab wheel (or under the crab rails). The insulation material is usually epoxy phenol aldehyde glass cloth laminated board. The crane is applicable to aluminum and magnesium smelting factories.



LDA, LDC, LX ELECTRIC SINGLE-GIRDER CRANE

LDA、LDC、LX型电动单梁起重机

LDA型电动单梁起重机由钢板与工字钢组焊成的主梁、端梁、电动葫芦及运行机构组成，电动葫芦沿主梁工字钢下翼缘运行，完成物品的吊运工作，具有结构轻巧、安装维护方便等特点，广泛应用于工厂、仓库、料场等不同场合吊运货物。操作方式设有地面手柄、无线遥控和司机室三种操作形式。驾驶室有开式、闭式两种。运行电机可根据用户要求选用软启动电机和变频调速，起重机启动平稳，运行安全可靠。



LDA electric single beam crane is composed of main beam, end beam, electric hoist and operating mechanism welded by steel plate and I-steel. The electric hoist runs along the lower flange of the main beam I-steel to complete the lifting of goods. It has the characteristics of light structure and convenient installation and maintenance. It is widely used in factories, warehouses, stockyards and other different occasions to lift goods. There are three operation modes: ground handle, wireless remote control and cab. There are two types of cabs, open and closed. The soft start motor and variable frequency speed regulation can be selected for the running motor according to the user's requirements. The crane starts smoothly and operates safely and reliably.



LDC型电动单梁起重机由钢板组焊成的箱型主梁、端梁、电动葫芦及运行机构组成，主梁下翼缘板（材质16Mn）作为电动葫芦运行轨道，完成物品的吊运工作。电动葫芦为低净空结构，可有效提升起升高度，适用于厂房低、起升高度要求高的场所。

LDC electric single-girder crane is composed of box-shaped girder weld by steel plates, end girder, electric hoist and travelling mechanism. The lower flange (material 16Mn) of the girder is the travelling orbit of electric hoist to accomplish article hoisting. The electric block, of low headroom structure, can effectively increase the lifting height, so that it is applicable to the places where the workshop is low and the requirement of lifting height is high.



LX型电动单梁悬挂起重机由钢板与工字钢组焊成的主梁、端梁、电动葫芦及电动跑车组成，悬挂在厂房上部的工字梁轨道上，悬臂长度0.5~1m，电动葫芦沿主梁工字钢下翼缘运行，完成物品的吊运工作，具有结构轻巧、安装维护方便等特点，广泛应用于生产车间、仓库及货场等场所。

LX electric single beam suspension crane is composed of main beam, end beam, electric hoist and electric sports car welded by steel plate and I-steel. It is suspended on the I-beam track on the upper part of the plant. The cantilever length is 0.5~1m. The electric hoist runs along the lower flange of the main beam I-steel to complete the lifting of goods. It has the characteristics of light structure and convenient installation and maintenance. It is widely used in production workshops, warehouses, freight yards and other places.

LDP ELECTRIC SINGLE-GIRDER CRANE

LDP型电动单梁起重机

LDP型电动单梁起重机属于超低净空轻小型起重机，电动葫芦位于主梁的一侧，增加了吊钩的工作空间，可以降低厂房高度和造价。适用于车间厂房净空高度较低的场所。

本产品由钢板组焊成的箱形主梁、端梁、小车及运行机构组成，小车由运行端梁、小车架及固定式电动葫芦组成，采用偏挂形式，在主梁一侧运行，葫芦位置由传统的主梁下提升到主梁上侧，有效提高了起升高度。小车运行行为锥型电机制动，开式齿轮传动。主梁为箱型结构，偏轨，上、下设水平轮，安全可靠，并可防止啃轨。大车运行采用分别驱动形式，锥型电机制动，开式齿轮传动。运行电机可根据用户要求选用软启动电机和变频调速，起重机启动平稳，运行安全可靠。



LDP electric single-girder crane is a small-size low headroom crane. The electric hoist is at one side of the girder, which increases the work space of the hook and reduces the workshop height and cost. It is applicable to the places where the workshop's headroom is low. The crane is composed of box-shaped girder weld by steel plates, end girder, crab and travelling mechanism. The crab consists of traveling end girder, crab frame and fixed electric block. The crab is partially hung and runs at one side of the girder. The electric hoist is raised to the upside of the girder from under the girder, which effectively increasing the lifting altitude. The crab is braked by conical motor and driven by exposed gear. The girder, of box-shaped structure and bias rails, has horizontal wheels at the upper and the lower, so that it is safe and reliable and can avoid rail gnawing. The trolley adopts separate drive, conical motor brake and exposed gear drive. The travelling motor can be soft start motor and variable-frequency adjustable-speed motor according to user requirements. The crane can start steadily and runs safely and reliably.



NEW TYPES OF ELECTRIC HOIST

新型电动葫芦

采用德国进口的起升电机，减速器。起升电机，减速器、卷筒和起升限位开关的一体化紧凑型设计节约了用户的使用空间。模块化设计在增强了机构的可靠性的同时有效降低了维护时间和成本。

具有更快更多的起吊速度和多种滑轮倍率可供选择。标准小车运行机构采用变频器控制，速度达到20米/分，使小车行走时吊运物品摆动小、定位精确，可安全可靠地吊运精密贵重物品。

It employs motor of hoisting mechanism and reducer imported from Germany. The integrated and compact design of hoisting motor, reducer, reel and limit switch saves space for the user. Modular design increases the reliability of mechanism meanwhile reduces the time and cost for maintaining.

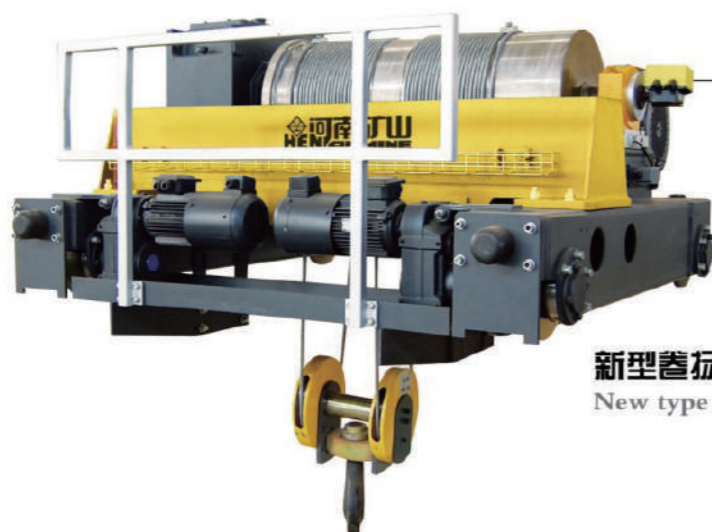
It has more and faster hoist speed and various pulley ratio which can be selected. The standard traveling mechanism of trolley is controlled by converter, with speed of 20m/min, which makes a little swing and accurate position if hoisting items while trolley traveling as well as lifts precision and valuable items reliably.



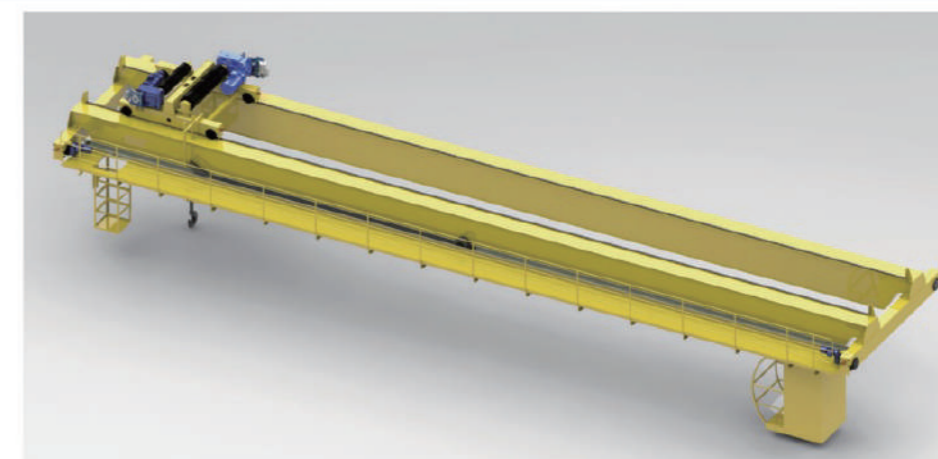
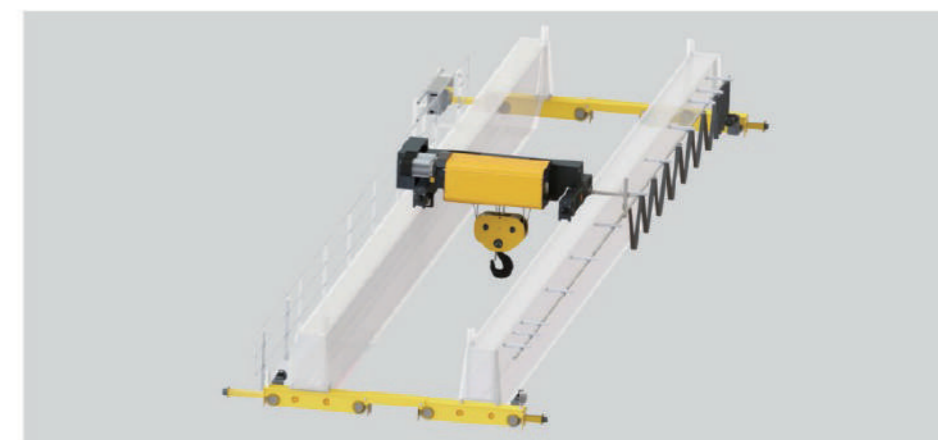
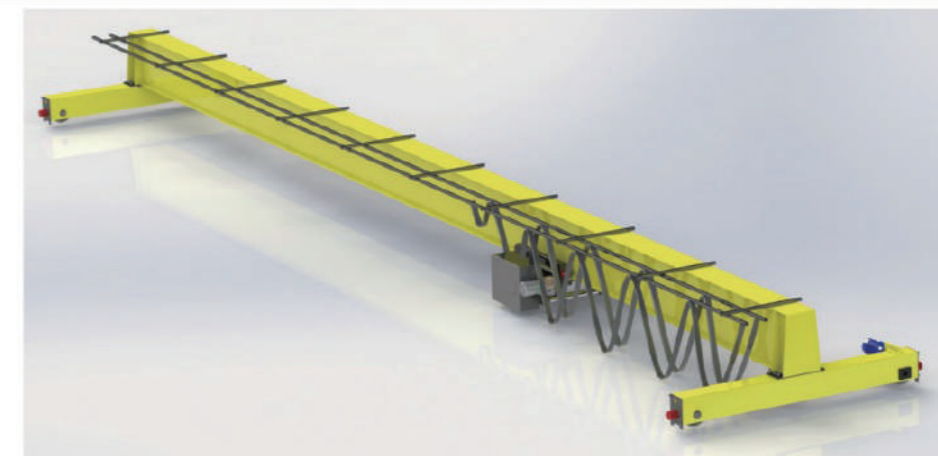
新型单梁电动葫芦
New single beam electric hoist



新型双梁电动葫芦
New double beam electric hoist



新型卷扬小车
New type winch trolley



ELECTRIC HOIST

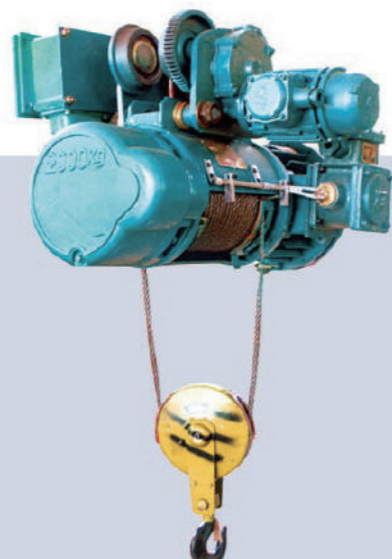
电动葫芦

电动葫芦是一种轻小型起重设备，具有体积小，自重轻，操作简单，使用方便等特点，用于工矿企业，仓储码头等场所。

Electric hoist is small lifting equipment, featuring small volume, light dead weight, easy operation and convenient use. It is used for such places as industrial and mining establishments and warehouses and wharfs.



CD, MD, 型电动葫芦
CDIMD1 electric hoist



BCD型防爆电动葫芦
BCD explosion proof electric hoist



低净空电动葫芦
Low clearance electric hoist



HFS系列增强PVC多极滑触线
HFS-series reinforced PVC multipolar trolley line



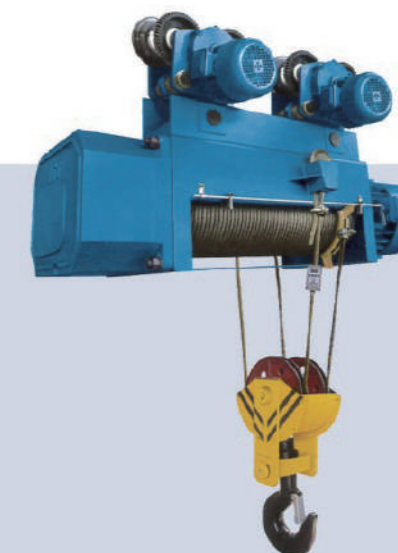
冶金电动葫芦
Metallurgical electric hoist



MD型电动葫芦
MD electric hoist



双梁一体式小车
Double beam integrated trolley



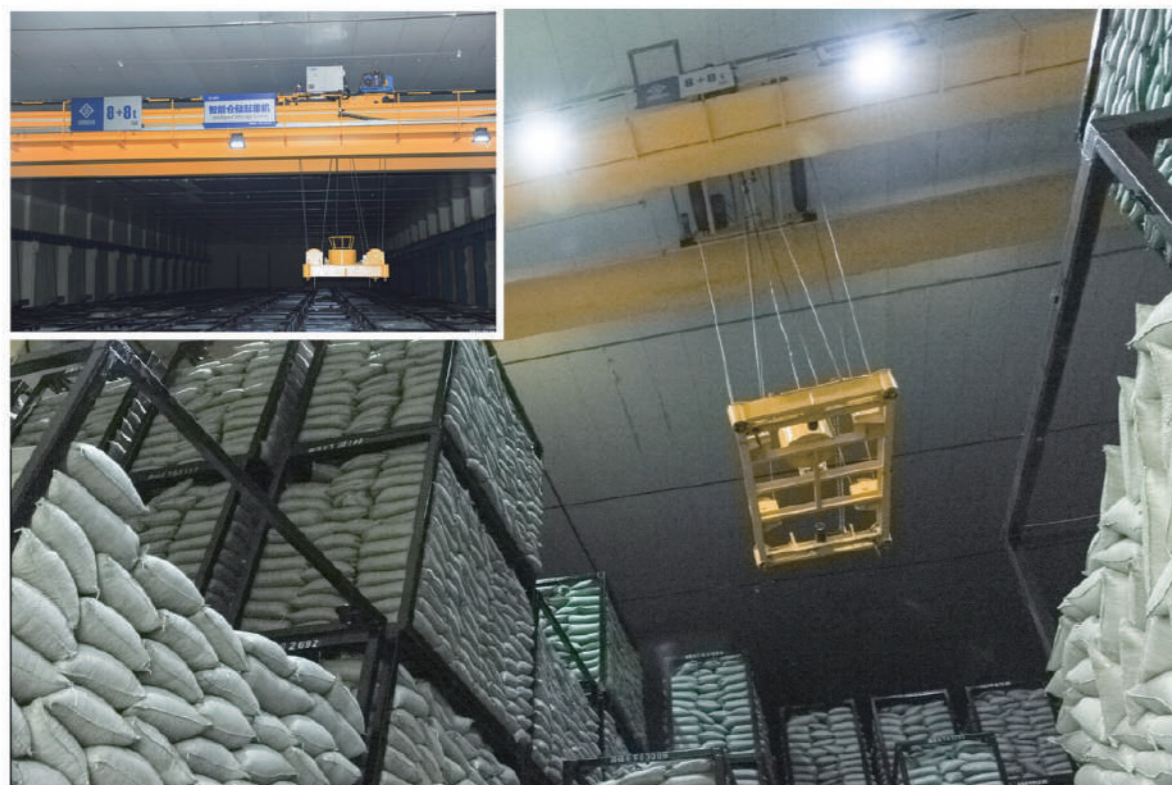
HC型电动葫芦
HC electric hoist

高端 定制化产品

HIGH-END CUSTOMIZED PRODUCTS

研制开发的智能仓储起重机、精准定位起重机、自动化集装箱门式起重机、核级专用起重机、洁净防爆自动起重机、多支点柔性起重机、模拟海事救援起重机等高端产品服务于宝钢、中铁、中冶、中核、中航等大型企业。

The developed intelligent storage crane, precision positioning crane, automatic container gantry crane, nuclear grade special crane, clean explosion-proof automatic crane, multi fulcrum flexible crane, simulated maritime rescue crane and other high-end products serve large enterprises such as Baosteel, China Railway, MCC, CNNC, AVIC and so on.



为赫通天下产业园承制的智能仓储起重机，采用了自动化吊具抓放和码垛、自动定位、电气防摇、远程调试、智能管理等功能。

The intelligent storage crane manufactured for Liantongtianxia Industrial Park adopts the functions of automatic lifting appliance grasping and stacking, automatic positioning, electrical anti swing, remote debugging, intelligent management and so on.



无人化抓斗起重机助力宝武韶钢“智能制造”

Unmanned grab crane helps Baowu Shaogang "intelligent manufacturing"

太仓港轨道式自动化集装箱门式起重机

Taicang port rail type automatic container gantry crane



山东钢铁集团日照有限公司智能钢板堆垛机

Henan mines helped China make major breakthroughs in aerospace



九江焦化智能焦罐
起重机
Jiujiang coking
intelligent coke tank
crane

俄罗斯克拉斯诺达
MGA636T-25M+10/
11MU型集装箱门机
集装箱门机

Russia krasnoda
mga636t-25m+10 /
11mu container gantry
crane container gantry
crane



宝钢湛江项目承制的
自动化起重机
Automatic crane
manufactured by
Baosteel Zhanjiang
project

洁净防爆全自动起重
机
Clean explosion-proof
full-automatic crane



水上救援模拟训练
起重机
Simulated training crane
for water rescue

质量承诺

Quality Promises

河南省矿山起重机有限公司具有CD₁、MD₁型0.25-50t电动葫芦、LDA1-20t电动单梁、LX0.5-5t电动悬挂、QD5t-320t通用桥式起重机全国工业产品生产许可证和160吨及其以下桥、门式起重机制造、安装、维修认可证。公司已顺利通过ISO9001-2015国际体系认证，并完全按照该体系运行模式进行全面质量管理。

矿山公司向广大用户做出如下质量承诺：

- 一、全部产品均有生产许可证<或认可证>决不提供假冒产品或以旧翻新的产品。
- 二、产品质量等级达到一级品<或优等品>。
- 三、产品各主要性能参数均在标准规定的范围内。
- 四、严格执行产品工艺纪律，保证按工艺操作规程加工制造。
- 五、保证产品检验器具齐全，检测手段完备，并严格按照规范对产品的质量部件进行检查验收，不合格产品不准出厂。
- 六、建立完整的产品档案，做到订货有合同，生产有记录，检验有台帐，入库有合格证，出厂有交待。
- 七、出厂产品无磕碰，配件齐全，漆膜完好，手续完整，使用户满意。

The company is licensed to manufacture CD₁ and MD₁ 0.25-50t electric hoist, LDA1-20t electric Single-girder crane, LX0.5-5t electric suspension crane and QD5t-320t general-purpose bridge crane. It is also licensed to manufacture, install and repair bridge and gantry cranes of 160t or under. The company has passed ISO9001-2015 certification, and the standard has been totally followed in the quality control system of the company.

Promises of the company include the following:

- I. All products have production permit or recognition permit; no fake or renovated products;
- II. Quality of all products reach class-A or distinguished class;
- III. Main data of the products satisfy related codes;
- IV. Strictly follow technological requirements in manufacturing;
- V. Strictly test products with standard testing devices to prevent unqualified products from leaving the plant;
- VI. Set up complete files to keep order contract, manufacturing record, test record, material receiving certificate and factory-leaving record.
- VII. All products to be delivered are no-damage in appearance and painting and are supplied with mating parts to satisfy clients.



售后服务承诺

After-sales Service Promises

一、凡由本公司生产销售的各种产品所出现的质量问题，本公司均按规定实行“三包”服务，并由售后服务三包队承担此项工作。

二、在接到用户关于产品质量的信息(来电、信函或口头通知)后，立即派出有关人员赶赴现场处理解决问题。

三、售后服务人员要认真、周到、彻底处理好有关质量问题，保证用户及时使用，无后顾之忧。

四、在及时解决好售出产品的质量问题的同时，售后服务人员有义务无偿地向用户提供技术咨询技术培训以及解答其它产品相关联的问题。

五、凡确属本公司产品质量问题的产品，一切费用均由本公司承担。对因用户方所造成的产品质量问题(或超出质保期的产品质量问题)本公司酌情收费，但不高于总支出的费用(或成本费)。

六、牢固树立用户就是上帝，一切为用户着想的思想，及时、认真、善始善终处理好有关质量问题，讲究信誉，处处维护矿源产品的形象，做到公司放心，用户满意。

I. Quality problems of products sold by our company will be solved as per the "Three Guarantees" system of our company by the "Three Guarantees" service team;

II. Related personnel will be sent to the site immediately after receiving quality complaints (by call, letter or oral notice) from clients;

III. Personnel involved in after-sales service shall be serious and considerate in handling the problem to make clients care-free;

IV. In addition to solve quality problems, personnel involved in after-sales service shall train clients, answer their technical inquiries and related questions free of charge.

V. Related cost for products with quality problem will be shouldered by our company. Our company charges for quality problems caused by clients (or problems after the warranty term), but the charge will not be higher than the expense (or cost);

VI. Establish the client-orient concept to offer timely, serious, considerate and complete service, and value the image of the all the time to serve the company and clients.



服务全球7000多家中高端客户

SERVING MORE THAN 7000 MEDIUM AND HIGH-END CUSTOMERS WORLDWIDE



2021年实现产销量100000余台（套）。产品畅销全国各地和一带一路国家和地区，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。研发制造的远程监控起重机、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武、中铁、中冶、中核、中航等大型企业。

In 2021, the production and sales of various single beam and double beam hoisting equipment will be nearly 100000 sets. The company has 428 sales and service agencies all over the country, serving more than 7000 medium - and high-end customers. It has been exported to more than 80 countries and regions such as

Kenya, Australia, Vietnam, India, Thailand, Pakistan and Southeast Asia, and has entered the international market of the "the Belt and Road". The products are widely used in machinery, metallurgy, mining, electric power, railway, aerospace, port, petroleum, chemical and other fields.

冶金行业

METALLURGICAL INDUSTRY

中冶南方工程技术有限公司	中冶京诚工程技术有限公司	中冶赛迪工程技术股份有限公司
中钢设备有限公司	宝山钢铁股份有限公司	宝钢湛江钢铁有限公司
武汉钢铁有限公司	马鞍山钢铁股份有限公司	上海梅山钢铁股份有限公司
广东韶钢松山股份有限公司	重庆钢铁股份有限公司	山西太钢不锈钢股份有限公司
北京首钢股份有限公司	首钢股份公司迁安钢铁公司	首钢迁安新能源汽车电工钢有限公司
河钢集团石家庄钢铁有限责任公司	河北津西钢铁集团股份有限公司	河北纵横集团丰南钢铁有限公司
河北唐银钢铁有限公司	河北天柱钢铁集团有限公司	河北太行钢铁集团有限公司
唐山港陆钢铁有限公司	天津荣程联合钢铁集团有限公司	唐山市德龙钢铁有限公司
敬业钢铁有限公司	德龙钢铁有限公司	石家庄钢铁有限责任公司
本溪北营钢铁(集团)股份有限公司	黑龙江建龙钢铁有限公司	建龙阿城钢铁有限公司
凌源钢铁股份有限公司	山西高义钢铁有限公司	山西晋南钢铁集团有限公司
晋城福盛钢铁有限公司	山西宏达钢铁集团有限公司	山东钢铁集团日照有限公司
临沂钢铁投资集团特钢有限公司	临沂钢铁投资集团不锈钢有限公司	陕西龙门钢铁有限责任公司
河南济源钢铁(集团)有限公司	安钢集团信阳钢铁有限责任公司	安徽长江钢铁股份有限公司
安徽省郎溪鸿泰钢铁有限公司	中新钢铁集团有限公司	江苏省鑫鑫钢铁集团有限公司
连云港兴鑫钢铁有限公司	南京钢铁有限公司	吉安市钢铁有限责任公司
九江萍钢钢铁有限公司	萍乡萍钢安源钢铁有限公司	江西台鑫钢铁有限公司
贵阳闽达钢铁有限公司	湖南华菱涟源钢铁有限公司	宁夏建龙龙祥钢铁有限公司
成都冶金实验厂有限公司	四川都钢钢铁集团股份有限公司	四川雅安安山钢铁有限公司
泸州鑫阳钒钛钢铁有限公司	四川德润钢铁集团航达钢铁有限责任公司	四川眉雅钒钛钢铁集团有限公司
福建三宝钢铁有限公司	福建罗源闽光钢铁有限责任公司	福建亿鑫钢铁有限公司
河源德润钢铁有限公司	广东粤北联合钢铁有限公司	梧州市永达钢铁有限公司
广西翅冀钢铁有限公司	云南玉溪玉昆钢铁集团有限公司	云南曲靖钢铁集团凤凰钢铁有限公司
云南玉溪仙福钢铁(集团)有限公司	大理大钢钢铁有限公司	云南永钢钢铁集团巨利达钢铁有限公司



交通物流

TRANSPORTATION LOGISTICS

中国铁路工程总公司	中国铁道建筑总公司	中国建筑工程总公司
中国路桥工程有限责任公司	中国隧道集团有限公司	中铁科工集团有限公司
中交隧道工程局有限公司	中铁九桥工程有限公司	中铁大桥局集团有限公司
中国铁路北京局集团有限公司	中国铁路兰州局集团有限公司	中国铁路武汉局集团有限公司
中国铁路成都局集团有限公司	中国铁路广州局集团有限公司	中车大连机车车辆有限公司
唐山京唐铁路有限公司	中国铁路乌鲁木齐局集团有限公司	中车长江车辆有限公司
中交第二公路工程局有限公司	中国铁路南宁局集团有限公司	中建隧道建设有限公司
中交第三公路工程局有限公司	中铁隧道股份有限公司	广东华隧建设集团股份有限公司
中交第一航务工程局有限公司	中国铁路呼和浩特局集团有限公司	河北铁建工程有限公司
中交第二航务工程局有限公司	浙江交工集团股份有限公司	中交路桥华南工程有限公司
中交第三航务工程局有限公司	北京城建集团有限责任公司	北京建工集团有限责任公司
中交隧道工程局有限公司	河南五建建设集团有限公司	靖江港口集团有限公司
遵义市贵绳物流有限责任公司	一拖(洛阳)物流有限公司	新钢(上海)国际物流有限公司



水利电力

WATER CONSERVANCY AND ELECTRIC POWER

中国水利水电第四工程局有限公司	中国水利水电第五工程局有限公司	中国水利水电第六工程局有限公司
中国水利水电第七工程局有限公司	中国水利水电第八工程局有限公司	中国水利水电第九工程局有限公司
中国水利水电第十一工程局有限公司	中国水利水电第十二工程局有限公司	中国水利水电第十四工程局有限公司
中建六局水利水电集团有限公司	中交水利水电建设有限公司	湖北省水利水电规划勘测设计院
湖南省水利水电第一工程有限公司	云南建投第一水利水电建设有限公司	宁夏水利水电工程局有限公司
江苏省水利建设工程有限公司	中国电建集团江西省水电工程局有限公司	福建省水利水电工程局有限公司
浙江省第一水电建设集团股份有限公司	广东水电二局股份有限公司	中国华能集团有限公司
中国电力投资集团公司	中国大唐集团有限公司	中国国电集团有限公司
中国华电集团有限公司	中机国能电力工程有限公司	国网冀北电力有限公司
国网上海市电力公司	中国能源建设集团安徽电力建设第一工程公司	中国能源建设集团东北电力第一工程有限公司
中国能源建设集团湖南火电建设有限公司	中国能源建设集团山西省电力勘测设计院有限公司	中国能源建设集团陕西省电力设计院有限公司
中国能源建设集团浙江火电建设有限公司	中能建东北电力第一工程有限公司	广东火电工程总公司
河南第一火电建设有限公司	青海火电工程公司	山东电力建设第三工程公司
中国船舶重工集团海装风电股份有限公司	中船风电（兴城）能源投资有限公司	中材科技（锡林郭勒）风电叶片有限公司
山东莱芜金雷风电科技股份有限公司	吉林中车风电设备有限公司	新疆海装风电设备有限公司
内蒙古海装风电设备有限公司	大连海装风电设备有限公司	山西昌能风电制造有限公司
濮阳天顺风电设备有限公司	甘肃九鼎风电复合材料有限公司	通辽市天顺风电设备有限公司



航空航天

AEROSPACE

中国航天科技集团公司	中国航空规划设计研究总院有限公司	中国兵器工业集团航空弹药研究院有限公司
中国航空国际建设投资有限公司	国防科学技术大学航天科学与工程学院	中国航空技术北京有限公司
上海航天精密机械研究所	上海航天设备制造总厂有限公司	贵州航天精工制造有限公司
江西航天经纬化工有限公司	西安航天动力机械厂	湖北航天化学技术研究所
西安航天复合材料研究所	西安航天华阳机电装备有限公司	西安航天动力机械有限公司
内蒙古航天红岗机械有限公司	西安航天化学动力有限公司	西安航天发动机有限公司
西安航天新宇机电装备有限公司	山西航天清华装备有限责任公司	内蒙古航天红峡化工有限公司
四川航天长征装备制造有限公司	湖北三江航天江河化工科技有限公司	西安向阳航天材料股份有限公司
西安航天动力测控技术研究所	西安航天源动力工程有限公司	西安航天动力研究所
辽宁航天神坤装备有限公司	西安航空城产业园运营管理有限公司	凌云（宜昌）航空装备工程有限公司
西安航空制动科技有限公司	中国航发贵州黎阳航空动力有限公司	汉中航空智慧新城投资集团有限公司
贵州安大航空锻造有限责任公司	中航工业南京轻型航空动力有限公司	中国航空工业集团公司济南特种结构研究所
西安飞机工业(集团)有限责任公司	爱生无人机西咸新区发展有限公司	陕西直升机股份有限公司



机械制造

MACHINERY MANUFACTURING

徐州工程机械集团有限公司	三一重工股份有限公司	中联重科股份有限公司
洛阳LYC轴承有限公司	郑州煤矿机械集团股份有限公司	武昌船舶重工集团有限公司
珠海格力电器股份有限公司	南京高精齿轮集团有限公司	杭萧钢构股份有限公司
贵州钢绳股份有限公司	沧州中铁装备制造材料有限公司	中信重工机械股份有限公司
江苏申港特种装备有限公司	芜湖久弘重工股份有限公司	防城港天地和金属制品有限公司
江苏泰隆减速机股份有限公司	河南煜德金属材料有限公司	张家港中环海陆高端装备股份有限公司
甘肃承威专用车制造有限公司	安徽唐兴装备科技股份有限公司	四川展志智能金属制造有限公司
青岛高测科技股份有限公司	安徽洪基机械有限公司	华都精工（南通）精密机械有限公司
神州城轨技术有限公司	渤海造船厂集团有限公司	金雷科技股份有限公司
中煤北京煤矿机械有限责任公司	河南幸福河水工机械有限公司	陕西紫兆装备制造有限公司
中信重工机械股份有限公司	山东宏旺实业有限公司	山东永安吴宇制管有限公司
比塞洛斯（淮南）机械有限公司	江联重工集团股份有限公司	浙江宏旭智能制造有限公司
中航上大高温合金材料有限公司	辽宁忠旺机械设备制造有限公司	张家港海陆沙洲科技有限公司
福建铁拓机械有限公司	中地装张家口探矿机械有限公司	武汉锅炉集团阀门有限责任公司
江苏亚威机床股份有限公司	中交世通(重庆)重工有限公司	山东华阳中科能源设备有限公司



能源化工

ENERGY AND CHEMICAL INDUSTRY

中国石油天然气集团公司	中国石油化工集团公司	中国海洋石油总公司
中石油兰州石化榆林化工有限公司	中石化石油工程设计有限公司	中海油石化工程有限公司
中石油管道有限责任公司北方分公司	中国石油化工股份有限公司江苏油田分公司	中海油气（泰州）石化有限公司
中国石油天然气股份有限公司辽阳分公司	中石化宁波工程有限公司	中海油宁波大榭石化有限公司
中国石油广东石化公司	湖北华中石化工程有限公司	山东华鲁恒升化工股份有限公司
中国石油天然气第一建设有限公司	中石化洛阳工程有限公司	东营威联化学有限公司
中信国安化工有限公司	中石化上海工程有限公司	山东劲海化工有限公司
中国化学工程集团有限公司	中石化巴陵石油化工有限公司	山东东明石化集团有限公司
辽河石油勘探局有限公司石油化工分公司	中国石化海南炼化化工有限公司	山东国海化工有限公司
大庆石化建设有限公司	中国石油化工股份有限公司济南分公司	山东晋煤明升达化工有限公司
襄阳泽东化工集团股份有限公司	中国石油化工股份有限公司中原油田分公司	安徽八一化工股份有限公司
三江化工有限公司	龙蟒佰利联集团股份有限公司	江西省凯鑫化工科技有限公司
新疆中能万源化工有限公司	湖北三宁化工股份有限公司	安徽泉盛化工有限公司
新疆库尔勒中泰石化有限责任公司	浙江天圣化纤有限公司	西安北方惠安化学工业有限公司



其它制造行业

OTHER MANUFACTURING INDUSTRIES

大连船舶重工集团有限公司	江苏扬子江船厂有限公司	中冶美利岷山纸业有限公司
江南造船集团有限责任公司	中国长江航运集团青山船厂	宜昌书林纸业有限公司
沪东中华造船集团有限公司	天津新港船厂	郑州康华纸业有限公司
渤海船舶重工有限责任公司	扬帆集团有限公司	柏乡县宝石纸业有限公司
上海外高桥造船有限公司	九江同方江新造船有限公司	安川首钢机器人有限公司上海分公司
国营武昌造船厂	浙江东海岸船业有限公司	长治清华机械厂
中国人民解放军部队后勤部	烟台来福士海洋有限公司	成都航天模塑股份有限公司成都模具分公司
广州广船国际股份有限公司	浙江东海岸船业有限公司	福建省晋鹏机械制造有限公司
中国长江航运集团金陵船厂	南通惠港造船有限公司	江苏亚威机床股份有限公司
江苏新世纪造船股份有限公司	晨鸣纸业集团	山东泉林纸业有限公司
南通中远川崎船舶工程有限公司	河南大指造纸装备集成工程有限公司	长沙远大住宅工业集团股份有限公司
上海澄西船舶有限公司	河南一林纸业有限责任公司	中包科技股份有限公司

