



卫华让世界轻松起来  
WEIHUA MAKES THE WORLD EASIER



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2020年9月



产品样本  
PRODUCT MANUAL

港机类

# PORT CRANE

■ 全国制造业单项冠军示范企业 ■ 全国质量标杆 ■ 中国机械工业百强

## 产品分类 PRODUCT CLASSIFICATION

岸边集装箱起重机  
Quayside Container Crane

轨道式集装箱门式起重机  
Rail Mounted Container Gantry Crane

悬臂式斗轮(堆)取料机  
Cantilever-type Bucket-wheel (stacker) Reclaimer



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# 卫华集团简介

GENERAL INTRODUCTION OF WEIHUA GROUP

卫华集团创建于1988年，是以研制桥门式起重机械、港口机械、电动葫芦、减速机、矿用机械、停车设备等产品为主的装备制造和以建筑工程总承包为主的大型企业集团。

卫华集团是中国重型机械工业协会、中国物料搬运协会和桥式起重机分会副理事长单位，先后荣获“全国制造业单项冠军示范企业”“中国机械工业百强”“全国守合同重信用企业”“千户集团企业”“全国质量标杆”“省长质量奖”等500多项荣誉称号。

作为国家技术创新示范企业、国家火炬计划重点高新技术企业，卫华拥有国家地方联合工程研究中心、国家认定企业技术中心、国家认可技术检验检测中心、博士后科研工作站、院士工作站等20个国家、省级研发平台。

以中国科学院院士杨叔子、中国工程院院士张铁岗为带头人的600人的科研团队，先后承接国家“863计划”“国家科技支撑计划”“国家火炬计划”项目，拥有授权专利848项，参与国际、国家、行业、地方、团体标准106项。先后获得省部、市级科技进步奖项74项；获政府鉴定科技成果93项，其中国际领先1项、国际先进5项、创造世界纪录1项。

在全球，卫华起重机械产品广泛应用于机械、冶金、矿山、电力、水利、航天、铁路、港口、石油、化工等行业，服务于国内外大型企业和重点工程建设，助力神舟系列飞船、长征系列火箭、天宫系列探测器成功飞天，并远销130多个国家和地区。

创卫华国际品牌、兴中华民族工业。卫华将在“绿色化、智能化、定制化、网络化”方面，不断持续创新，为“卫华让世界轻松起来”的企业愿景而奋进。

**1988**

◆ 创建于1988年

**500<sup>+</sup>**

◆ 荣获500多项荣誉称号

**130<sup>+</sup>**

◆ 产品销往130多个国家和地区

# GENERAL INTRODUCTION OF WEIHUA GROUP

Founded in 1988, Weihua Group is a large-scale enterprise mainly engaged in machinery manufacturing including overhead crane, gantry crane, harbor machinery, electric hoist, reducer, mining machinery, parking equipment, etc, and EPC.

Weihua Group serves as Deputy Chief Director of the Heavy Machinery Industry Association, Material Handling Association and the Sub-association of Bridge Crane in China. It has been honored with more than 500 awards such as “National Manufacturing Individual Champion Demonstration Enterprise”, “Top 100 Chinese Machinery Enterprise”, “Contract-honoring and Promise-keeping Enterprise of China”, “Qianhu Enterprise”, “National Quality Standard”, “Quality Award of Henan Provincial Governor”.

As National Innovation Demonstration Enterprise and Key High-Tech Enterprise of National Torch Plan, Weihua Group has established more than 20 national and provincial R&D platform such as United Engineering Research Center, National Enterprise Technology Center, National Technology and Inspection Center, Post-doctoral Scientific Research Workstation, Academician workstation.

Led by Mr. Yang Shuzi, the Academician of Chinese Academy of Sciences and Mr. Zhang Tiegang, the academician of Chinese Academy of Engineering, Weihua R&D team with more than 600 persons has undertaken “National 863 Program”, “National Science Supporting Program” and “National Torch Plan”. It has obtained 848 issued patents and participated in drafting 106 international, national, industrial, local and group standards. It also has won 74 Provincial-level Scientific and Technological Progress Awards, 93 Scientific and Technological Achievement identified by government, including 1 international leading achievement, 5 international advanced achievements, and 1 world record.

Weihua’s products have been exported to more than 130 countries which are widely used in various fields, including machinery, metallurgy, mining, electricity, water conservancy, aerospace, railway, harbor, petroleum, chemical industry and etc. They have been serving large enterprises and key construction projects at home and abroad as well as assisting successful launching of shenzhou spacecraft, Long March rockets and Tiangong space lab.

Create Weihua international brand, revitalize Chinese national industry. Weihua will keep on continuous innovation in terms of “greenization, intelligentize, customization, internet” and strive for the enterprise’s vision of “Weihua Makes The World Easier”.



## 企业资质

# ENTERPRISE QUALIFICATIONS

完善的质量保证体系,严格的质量控制,全面的质量管理,让每一个环节精益求精,每一个产品都日臻完美。国际先进的检测设备,国内权威的检测中心,稳步提升的质量检测水平,使我们在激烈的国际商战中,充满信心。

Complete quality assurance system, strict quality control and all-round quality management make each link and each product much more perfect. International top-rank testing equipment, domestic authoritative testing center and steadily-improved quality testing level make us have full assurance during violent international trade war.





## 企业荣誉

# ENTERPRISE HONORS

卫华先后荣获“全国制造业单项冠军示范企业”“全国质量标杆”“中国机械工业百强”“千户集团企业”“国家火炬计划重点高新技术企业”“国家认定企业技术中心”“全国守合同重信用企业”“全国机械工业质量奖”“河南省省长质量奖”“全国工业品牌培育示范企业”等500多项荣誉称号。

Weihua has won more than 500 awards and honors, such as National Monomial Champion Demonstration Enterprise of Manufacturing Industry, National Quality Standard, Top 100 China Machinery, Qianhu Enterprise, Key High-Tech Enterprise of National Torch Plan, National Certified Enterprise Technology Center, Contract-honoring and Promise-keeping Enterprise, National Quality Award of Machine Building Industry, Quality Award of Henan Provincial Governor and National Demonstration Enterprise of Industrial Brand Cultivation.

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本样本所供参数仅供选型参考, 如有更改恕不通知, 具体型号参数以本公司实际产品设计为准, 欢迎咨询。

The parameters provided in this sample are only for model selection reference, and are subject to change without notice.  
The specific model parameters are subject to the actual product design of our company.  
Welcome to consult.



## 岸边集装箱起重机 Quayside Container Crane

### 产品概述:

1. 岸边集装箱起重机(简称岸桥)是集集装箱码头前沿装卸集装箱船舶的专用起重设备,其功能是将集装箱从船上直接卸到码头上或集卡上,或从码头或集卡上装到船上。
2. 设计、制造、检验符合FEM、DIN、IEC、AWS、GB等国际标准。岸边集装箱起重机主要由电气控制系统、金属结构、四大机构(起升机构、小车运行机构、俯仰机构、大车运行机构)、小车总成、倾转挂舱保护装置和辅助装置组成。各机构均采用全数字式交流变频、PLC控制调速特有技术,控制灵活、精度高。并配有各种规格单箱双箱集装箱专用吊具以及选配电子防摇功能。主要产品规格有35t、41t、51t、65t。
3. 卫华岸边集装箱起重机具有多项领先技术,采用变频多传回技术,整机性能优越,起重量大,前伸距长,运行位置信息实时采集,吊具轨迹智能化控制,安全保护功能完善,工作效率高,节能环保。

### Products Summary:

1. Quayside container crane(abbreviated as STS) is special lifting equipment for loading & unloading container in quayside which is capable of unloading the container from ship to wharf or truck as well as loading the container from wharf or truck to the ship.
2. The design, manufacture and inspection of STS comply with Chinese standard and international standards such as FEM, DIN, IEC, AWS and etc. It is mainly composed of electrical control system, metal structure, lifting mechanism, trolley traveling mechanism, boom hoist mechanism, crane traveling mechanism, trolley assembly, anti-sag protection device and other auxiliary device. All mechanisms adopt fully digital AC variable frequency and PLC speed control technology with flexible control and high accuracy. Spreader for single container or double containers with different specification is equipped and electronic anti-swing function is as option. Main product specifications include 35t, 41t, 51t and 65t.
3. Weihua's STS has applied a number of advanced technologies such as variable frequency and multi-feedback. It has the characteristics of excellent performance, large lifting capacity, long outreach, real-time collection of running positions, intelligent control of spreader trajectory, complete safety protection function, high working efficiency, energy saving and environmental protection.

## 技术特点

## Technical Features



1. 矢量变频、电能回馈、力矩平衡控制技术,节能环保,便捷高效;  
vector frequency conversion, electric energy feedback, torque balance control, energy saving and environmental protection, convenience and efficiency.



2. 分布式总线控制,光纤通信,抗干扰、稳定性高;  
distributed bus control, optical fiber communication, anti-interference and high stability.



3. CMS智能服务管理系统,实时监控设备各机构运行状态;  
CMS intelligent service management system, real-time monitoring of running status.



4. 故障自动化检测和数据实时显示技术,安全可靠;  
automatic fault detection and real-time data display, safety and reliability.



5. 前大梁可实现80度俯仰功能,方便船舶进出港口;  
realizable 80 luffing degree of boom, convenient for ship to enter and leave ports.



6. 提供多种操作模式——手动\半自动\自动化远程操作,技术先进,性能稳定;  
multiple operation mode---manual, semi-automatic and automatic remote operation, complete with advanced technology and stable performance.



7. 具有自动运行定位、柔性着箱对箱、轨迹智能控制、智能化倾转挂舱安全保护等核心技术;  
applied core technologies such as automatic running positioning, flexible landing on containers, trajectory intelligent control, intelligent tilting anti-sag safety protection and etc.



8. 大风报警、安全动态扫描等各种安全措施齐全。  
A variety of safety measures, including strong wind alarm, safety dynamic scanning.

# 性能参数表

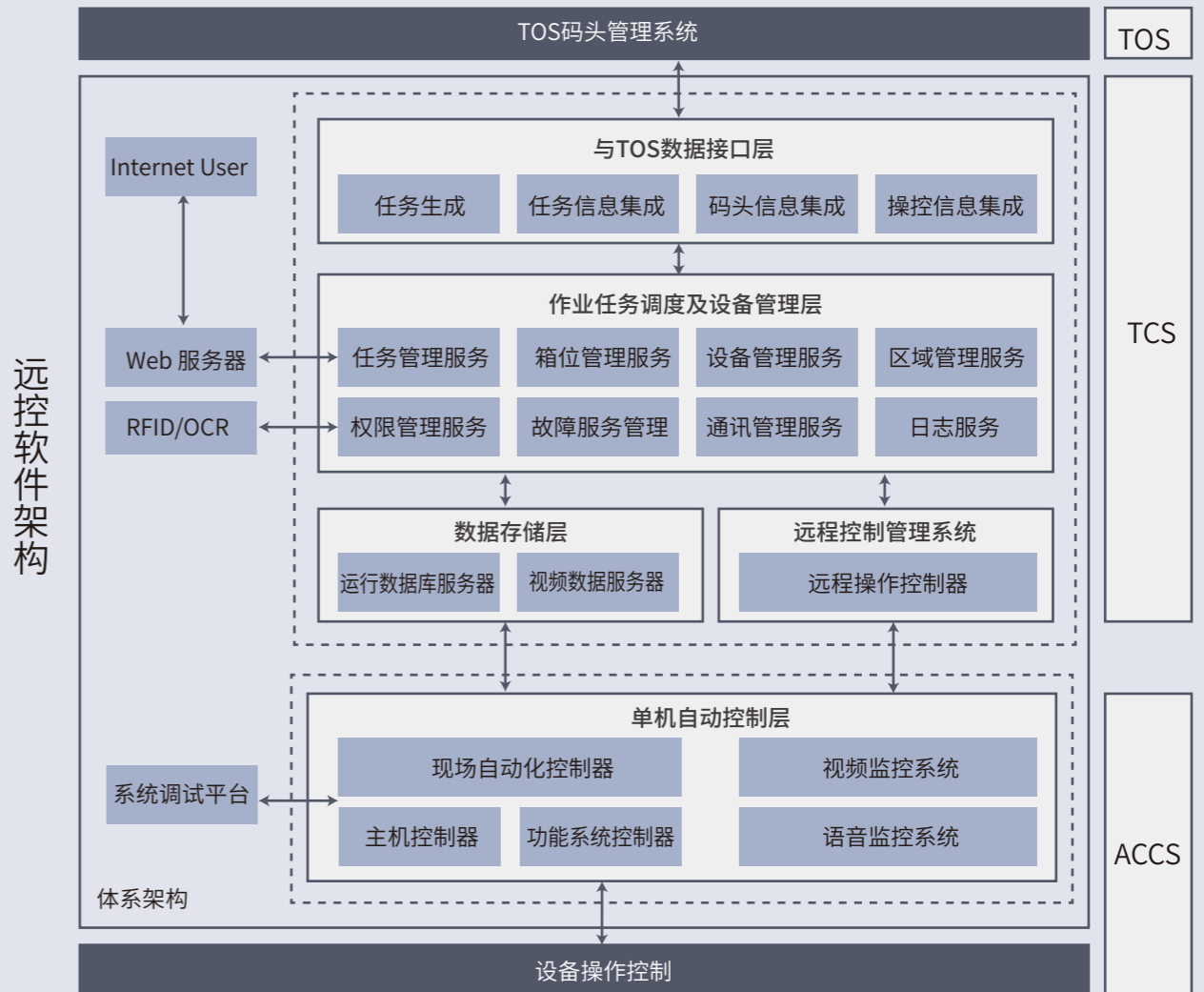
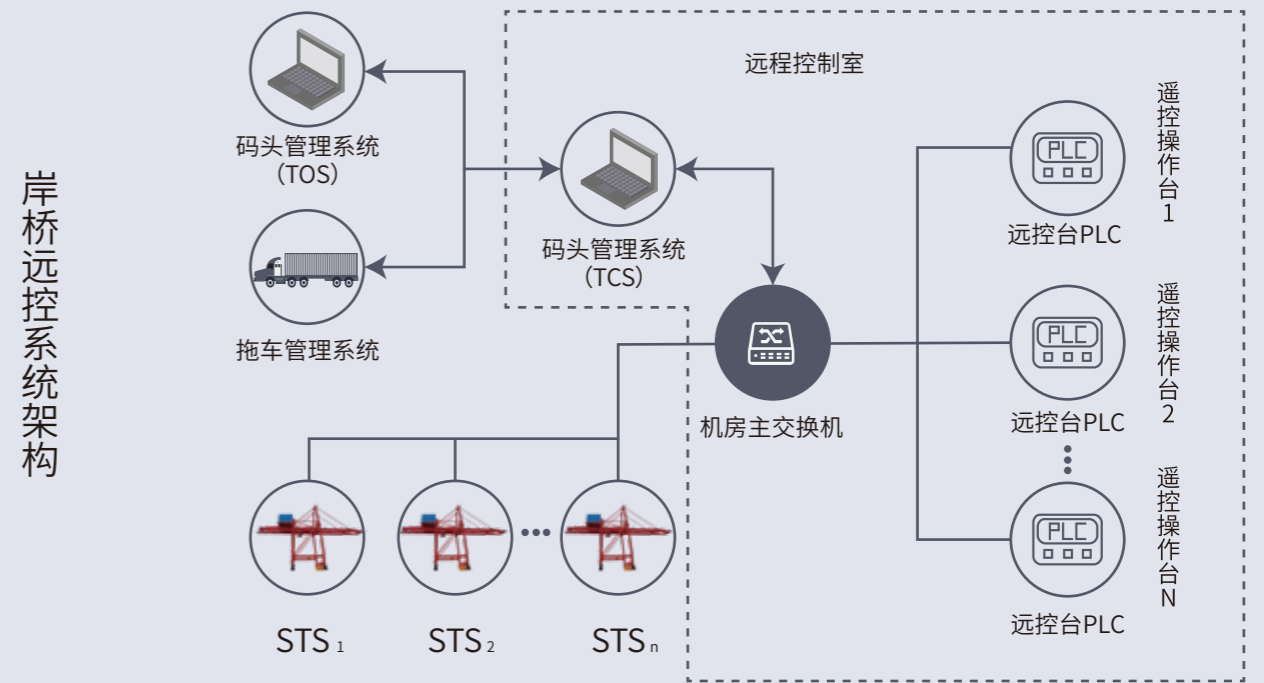
## Technical Data

基本参数		额定起重量		起升高度		前伸距		后伸距		轨距		小车总行程		门框内宽		门框联系梁净高		两缓冲器距离								
Basic Parameters	Rated Lifting Capacity	Under Spreader	35	41	51	65	t		Under Hook	45	50	61	75	t		Above Rail	37	25	50	35	58	40	62	42	m	
		Below Rail	12	15	18	20	m																			
	Front Outreach		30	45	51	65	m		Rear Outreach		10	15	15	25	m		Rail Gauge		16	16/22	30.48	30.48	m			
	Total Trolley Travel Distance		56	76/82	96.48	120.48	m		Inside Clearance Between Legs		≥17.5	≥17.5	≥18.5	≥18.5	m		Clear Height of Middle Cross Beam		≥13	≥13	≥13	≥13	m			
	Distance Between Gantry Bumpers		≤27	≤27	≤27	≤27	m		Lifting Speed	满载	50	60	75	90	m/min		Trolley Traveling Speed	180	210	240	240	m/min				
	空载		120	120	150	180	m/min			Gantry Traveling Speed		45	45	45	45	m/min										
	Boom Hoisting Time (One Way)		5	5	5	5	min		速度参数		Speed Parameters															

以上技术参数表所列项目为常规推荐参考, 可依据用户实际要求。  
The items listed in above technical parameter table are for reference.

# 远控电控系统

## Electric Control System of Remote Control







## 轨道式集装箱门式起重机

### Rail Mounted Container Gantry Crane

#### 产品概述:

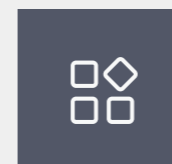
1. 轨道式集装箱门式起重机(简称场桥)适用于港口、码头、铁路、物流等集装箱堆场或中转站的国际标准集装箱及铁路宽箱的搬运及装卸。通过多组钢轮支撑在轨道上,以市电为动力,由大车机构、小车总成、龙门架、动力系统、集装箱专用吊具等组成。
2. 设计、制造、检验执行FEM、DIN、IEC、AWS、GB等国内外最新标准。卫华RMG具备功能多样,效率高,稳定可靠,作业范围广,使用、维护、保养便捷等特点。
3. 具有完善的安全指示和过载保护装置,最大限度地确保操作人员和设备的安全。电气驱动采用全数字式交流变频、PLC控制调速特有技术,控制灵活、精度高。标配国内外知名品牌外购件确保整机质量。

#### Products Summary:

1. Rail mounted container gantry crane is appropriate for handling, loading and unloading ISO container and railway wide container in container yard or transfer station such as port, wharf, railway and logistics. Supported by multiple steel wheels and powered by electricity, it consists of gantry mechanism, trolley assembly, gantry frame, power system and special container spreader.
2. The design, manufacture and inspection comply with Chinese standard and international standards such as FEM, DIN, IEC, AWS and etc. Weihua's RMG has the characteristics of multiple function, high efficiency, stability, reliability, wide range of operation, easy operation and maintenance.
3. It is also completed with safety indication and overload protection device to provide maximum safety for operators and equipment. The electric drive adopts fully digital AC variable frequency and PLC speed control technology with flexible control and high accuracy. Standard bought-in components from well-known brands at home and abroad ensure overall quality.

## 技术特点

### Technical Features



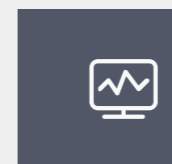
1、公司专业提供上旋转(小车旋转)轨道式集装箱门式起重机,下旋转(吊具旋转)轨道式集装箱门式起重机,有悬臂、无悬臂轨道式集装箱门式起重机,铁路专用轨道式集装箱门式起重机;

Our main products include upper rotating (trolley rotation) RMG, lower rotating (spreader rotation) RMG, cantilevered and non-cantilevered RMG, RMG for railway.



2、标配双向柔性阻力防摇系统,选配多功能变频防摇微动系统和电子防摇系统,防摇效果显著,维护方便,提高集装箱的抗摇摆性;

standard two-way flexible resistance anti-swing system, multiple function frequency control anti-swing inching system and electronic anti-swing system as option, perfect anti-swing effects, easy maintenance.



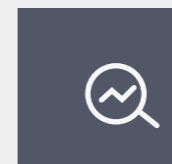
3、CMS智能服务管理系统,实时监控设备各机构运行状态;

CMS intelligent service management system, real-time monitoring of running status.



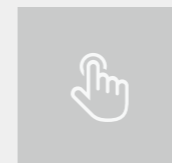
4、矢量变频、电能回馈、力矩平衡控制技术,节能环保,便捷高效;

vector frequency conversion, electric energy feedback, torque balance control, energy saving and environmental protection, convenience and efficiency.



5、故障自动化检测和实时显示技术,安全可靠;

automatic fault detection and real-time data display, safety and reliability.



6、提供多种操作模式——手动\半自动\自动化远程操作,技术先进,性能稳定;

multiple operation mode---manual, semi-automatic and automatic remote operation, complete with advanced technology and stable performance.



7、具有自动运行定位、智能着箱对箱、轨迹智能控制、智能化安全保护等核心技术;

applied core technologies such as automatic running positioning, flexible landing on containers, trajectory intelligent control, intelligent tilting anti-sag safety protection and etc.



8、大风报警、安全动态扫描等各种安全措施齐全。

A variety of safety measures, including strong wind alarm, safety dynamic scanning.

轨道式集装箱门式起重机主要技术参数Main Technical Parameters				
吊具下起重量(t) Lifting Capacity Under Spreader		35	41	70
基距(m) Base Distance		10/16		
跨度(m) Span		30/35/40		
起升高度(m) Lifting Height		12.5/15.3/18.3		
堆箱层数(层) Stack Layers		堆3过1/堆4过1/堆5过1		
集装箱规格 Container Specification		20' , 40' , 45'	20' , 40' , 45'	双20' , 20' , 40' , 45'
速度 Speed	起升(满/空载) (m/min) Hoisting(full load/empty load)	13/20	13/20	20/40
	大车运行(满/空载) (m/min) Gantry Traveling(full load/empty load)	45	45	45
	小车运行(m/min) Trolley Traveling	70	70	70
车轮数量(个) Wheel Numbers		16/20	16/20	24
最大轮压(kN) Maximum Wheel Load		250	280	300
电源 Power Supply		三相交流 Three Phase AC 380V 50Hz		

以上技术参数表所列项目为常规推荐参考,可依据用户实际要求。  
The items listed in above technical parameter table are for reference.



浙江石化自动化轨道式集装箱门式起重机  
Automatic Rail Mounted Container Gantry Crane for Zhejiang Petrochemical Industry



九江红光码头自动化轨道式集装箱门式起重机  
Automatic Rail Mounted Container Gantry Crane for Hongguang Wharf in Jiujiang

产品展示

Picture Show



周口港轨道式集装箱门式起重机  
Rail Mounted Container Gantry Crane at Zhoukou Port



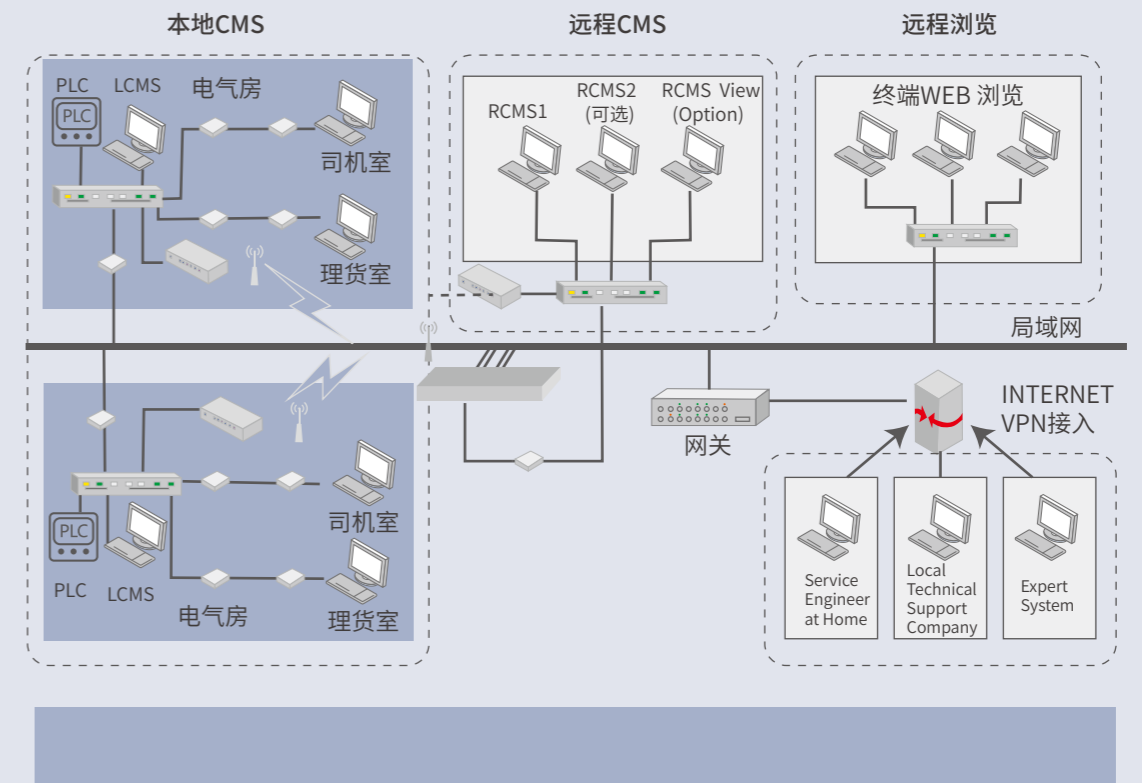
漯河港轨道式集装箱门式起重机  
Rail Mounted Container Gantry Crane at Luohe Port



出口哈萨克斯坦轨道式集装箱门式起重机  
Rail Mounted Container Gantry Crane  
Exported to Kazakhstan

电控系统

Electric Control System



海口港轨道式集装箱门式起重机  
Rail Mounted Container Gantry Crane at Haikou Port



象屿集团轨道式集装箱门式起重机  
Rail Mounted Container Gantry Crane for Xiangyu Group



## 轮胎式集装箱门式起重机 Rubber Tyred Container Gantry Crane

轮胎式集装箱门式起重机(简称场桥)适用于港口、码头、物流等集装箱堆场或中转站国际标准集装箱的搬运及装卸。支撑在充气橡胶轮胎上、常以柴油发电机为动力,也可采用电缆卷筒,锂电池等为动力。由大车机构、小车总成、龙门架、动力系统、集装箱专用吊具等组成。设计、制造、检验执行FEM、DIN、IEC、AWS、GB等国内外最新标准。卫华RTG具备功能多样,效率高,稳定可靠,作业范围广,机动性好,对地面不平整度敏感性小,使用、维护、保养便捷,最大特点能够直行,横行,0-90度转向及原地回转。具有完善的安全指示和过载保护装置,最大限度地确保操作人员和设备的安全。电气驱动采用全数字式交流变频、PLC控制调速特有技术,控制灵活、精度高。标配国内外知名品牌外购件确保整机质量。

Rubber tyred container gantry crane is appropriate for handling, loading and unloading ISO container in container yard or transfer station such as port, wharf and logistics. Supported by pneumatic rubber tyres and powered by diesel generator, cable drum or lithium battery, it consists of gantry mechanism, trolley assembly, gantry frame, power system and special container spreader. The design, manufacture and inspection comply with Chinese standard and international standards such as FEM, DIN, IEC, AWS and etc. Weihua's RTG has the characteristics of multiple function, high efficiency, stability, reliability, wide range of operation, good maneuverability, low sensitive to ground unevenness, easy operation and maintenance. Straight travel, lateral travel, 0-90 degree turning and turning in the same place are the most important features. It is also completed with safety indication and overload protection device to provide maximum safety for operators and equipment. The electric drive adopts fully digital AC variable frequency and PLC speed control technology with flexible control and high accuracy. Standard bought-in components from well-known brands at home and abroad ensure overall quality.

## 技术特点

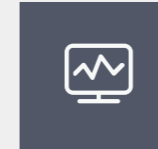
### Technical Features



1.公司提供多种动力组合方案(柴油机组、市电、小功率柴油机组+锂电池),节能环保;  
a variety of power combination solutions (diesel engine, city power, small power diesel units + lithium batteries) are provided, energy saving and environmental protection.



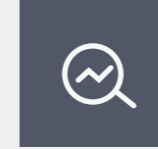
2.标配双向柔性阻力防摇系统,选配多功能变频防摇微动系统和电子防摇系统,防摇效果显著,维护方便,提高集装箱的抗摇摆性;  
standard two-way flexible resistance anti-swing system, multiple function frequency control anti-swing inching system and electronic anti-swing system as option, perfect anti-swing effects, easy maintenance.



3.CMS智能服务管理系统,实时监控设备各机构运行状态;  
CMS intelligent service management system, real-time monitoring of running status.



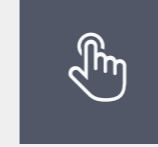
4.矢量变频、电能回馈(动力为市电或锂电池时)、力矩平衡控制技术,节能环保,便捷高效;  
vector frequency conversion, electric energy feedback(if city power or lithium battery supplies power), torque balance control, energy saving and environmental protection, convenience and efficiency.



5.故障自动化检测和数据实时显示技术,安全可靠;  
automatic fault detection and real-time data display, safety and reliability.



6.特有吊车纠偏及微调技术,吊车个性化转向,顶升,防倾翻设计;  
unique crane guiding system and trimming technology, personalized crane turning, jacking point, rollover protection



7.提供多种操作模式——手动/半自动/自动化远程操作,技术先进,性能稳定;  
multiple operation mode---manual, semi-automatic and automatic remote operation, complete with advanced technology and stable performance.



8.具有自动运行定位、智能着箱对箱、轨迹智能控制、智能化安全保护等核心技术;  
applied core technologies such as automatic running positioning, flexible landing on containers, trajectory intelligent control, intelligent tilting anti-sag safety protection and etc.



9.大风报警、安全动态扫描等各种安全措施齐全。  
A variety of safety measures, including strong wind alarm, safety dynamic scanning.

# 性能参数表

## Technical Data

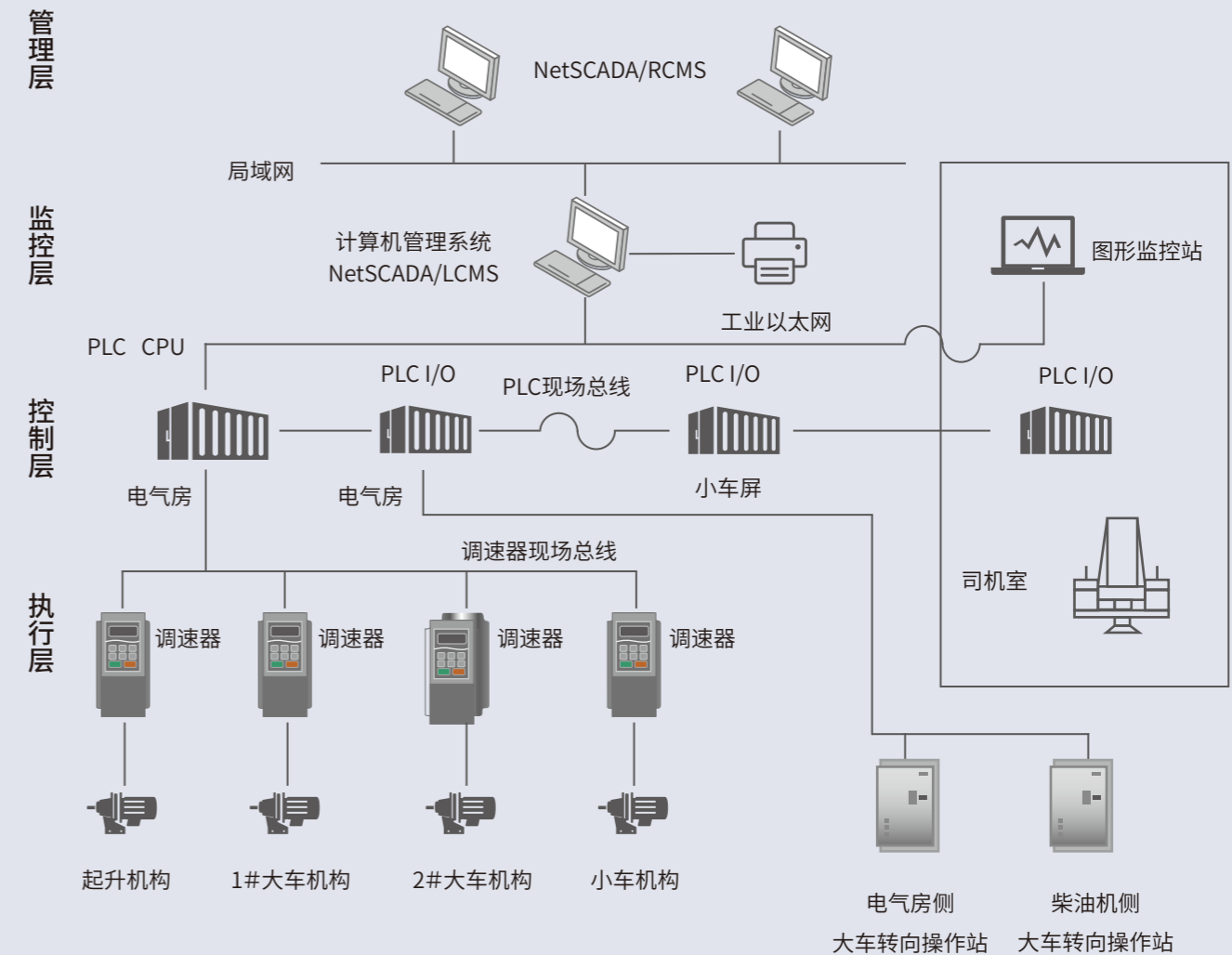
轮胎式集装箱门式起重机主要技术参数Main Technical Parameters			
额定起重量(t) Rated Lifting Capacity	35	41	70
基距(m) Base Distance	7	7	7.5
跨度(m) Span	23.47/26	23.47/26	23.47/26
起升高度(m) Lifting Height	15.5/18.5	15.5/18.5	15.5/18.5
堆箱层数(层) Stack Layers	4/5	4/5	4/5
集装箱规格 Container Specification	20' , 40' , 45'	20' , 40' , 45'	20' , 40' , 45'
速度 Speed	起升(满/空载) (m/min) Hoisting(full load/empty load)	20/40	25/50
	大车运行(满/空载) (m/min) Gantry Traveling(full load/empty load)	30/130	30/130
	小车运行(m/min) Trolley Traveling	70	70
车轮数量(个) Wheel Numbers	8	8/16	16
最大轮压(kN) Maximum Wheel Load	300	320/180	200
电源 Power Supply	柴油发电机组或三相交流 diesel generator set or three phase AC380V 50Hz		

以上技术参数表所列项目为常规推荐参考,可依据用户实际要求。  
The items listed in above technical parameter table are for reference.

# 电控系统

## Electric Control System

### 轮胎吊电控驱动与自动化系统方案



产品展示

Picture Show



出口泰国轮胎式集装箱门式起重机  
Rubber Tire Container Gantry Crane Exported to Thailand



出口澳大利亚轮胎式集装箱门式起重机  
Rubber Tire Container Gantry Crane Exported to Australia

产品展示

Picture Show



出口哈萨克斯坦轮胎式集装箱门式起重机  
Rubber Tire Container Gantry Crane Exported to Kazakhstan



广东鱼珠穗林码头轮胎式集装箱门式起重机  
Rubber Tire Container Gantry Crane Exported for Guangzhou Yuzhusuilin Wharf



出口法国大皇宫轮胎式集装箱门式起重机  
RTG for the Royal Palace Monument Exhibition exported to France



## 门座起重机 Portal Crane

### 产品概述:

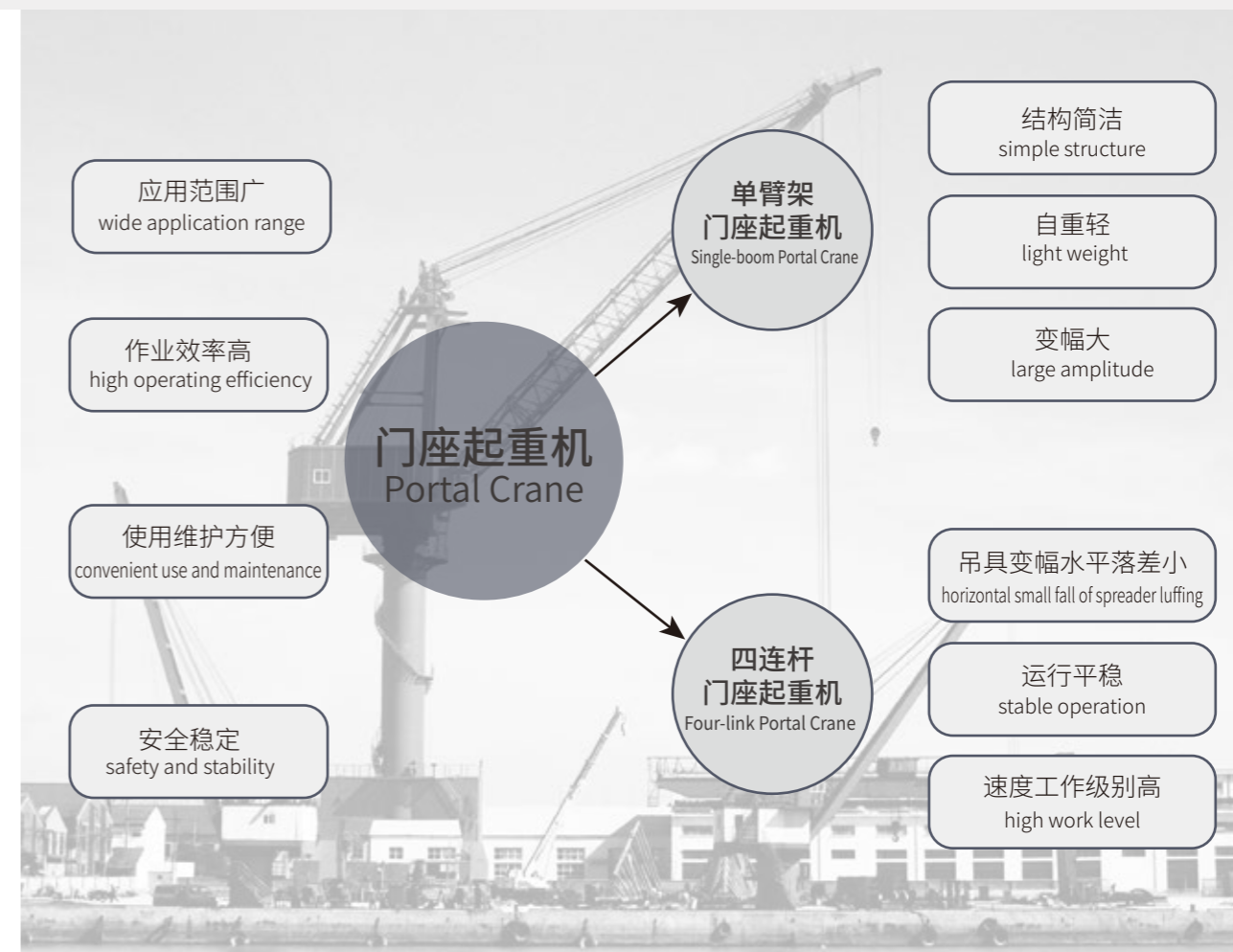
1. 门座起重机广泛应用于港口、码头、堆场等场所，完成船舶和车辆载货的装卸、转载作业。其设计、制造、检验执行FEM、DIN、IEC、AWS、GB等国内外最新标准。
2. 电气驱动采用全数字式交流变频、PLC控制调速特有技术，控制灵活、精度高。标配国内外知名品牌外购件确保整机质量。
3. 目前主要产品规格有MQ1025、MQ1030、MQ1625、MQ1630、MQ1635、MQ2525、MQ2530、MQ2535、MQ4025、MQ4030、MQ4035单臂架和四连杆门座起重机。

### Products Summary:

1. Portal cranes are widely used in ports, docks, storage yards and other places to complete the loading, unloading and transshipping operations of ships and vehicles. Its design, manufacturing and inspection implement the latest domestic and foreign standards such as FEM, DIN, IEC, AWS, and GB.
2. The electric drive adopts the unique technology of full digital AC frequency conversion and PLC speed regulation control, with flexible control and high precision. The quality of the whole crane is guaranteed by purchased parts from well-known domestic and foreign brands.
3. At present, the specifications of main products are MQ1025, MQ1030, MQ1625, MQ1630, MQ1635, MQ2525, MQ2530, MQ2535, MQ4025, MQ4030, MQ4035 single boom portal cranes and four-link portal cranes.

## 产品概述

### Products Summary



门座起重机根据臂架结构形式，分为单臂架和四连杆两种类型。

单臂架门座起重机有结构简洁、自重轻、变幅大等特点。四连杆门座起重机采用优异组合臂架系统，实现变幅过程货物水平移动，具有吊具变幅水平落差小、运行平稳、速度工作级别高的特点。

两种类型的门座起重机均能满足件杂货、散料以及集装箱的装卸作业要求，具有应用范围广、作业效率高、使用维护方便、安全稳定等特点。

Portal cranes are divided into two types of single-boom and four-link according to the structure of the boom. The single-boom portal crane has the features of simple structure, light weight and large amplitude. The four-link portal crane adopts an excellent combined boom system to realize the horizontal movement of goods during the luffing process, with the features of horizontal small fall of spreader luffing, stable operation and high work level. Both types of portal cranes can meet the loading and unloading requirements of general cargo, bulk materials and containers. They have the characteristics of wide application range, high operating efficiency, convenient use and maintenance, safety and stability.

## 技术特点

### Technical Features



1、提供多种结构形式的抓斗稳绳装置, 稳绳效果好, 显著抑制了吊具的摆动;  
Provide various structural forms of grab rope stabilization devices, with good rope stabilizing effect, which can significantly restrain the swing of the spreader.



2、双机协同作业技术, 控制精度高, 协同效果好;  
Two - cranes cooperative operation technology has high control precision and good cooperative effect.



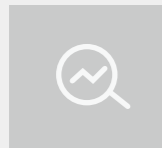
3、臂架铰点上移, 实现钢丝绳顺绕, 延长了钢丝绳使用寿命, 便于维护保养;  
The hinge point of the boom moves up to realize the Z-winding of the wire rope, which prolongs the service life of the wire rope and is convenient for maintenance.



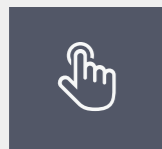
4、集装箱吊具自动回转跟随技术, 提高作业效率, 提高安全性;  
The automatic slewing following technology for container spreader improves operation efficiency and safety.



5、矢量变频、电能回馈技术, 节能环保;  
Vector frequency conversion and electric energy feedback technology save energy and environmental protection.



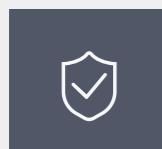
6、故障自动化检测和数据实时显示技术, 安全可靠;  
Automatic fault detection and real-time data display technology are safe and reliable.



7、提供多种操作模式——手动/半自动化远程操作, 技术先进, 性能稳定;  
Provide multiple operation modes---manual ,semi-automatic remote operation with advanced technology and stable performance.



8、具有运行、回转定位、吊具轨迹智能跟随、智能化安全保护等核心技术;  
Its core technologies: operation, slewing positioning, intelligent following of spreader trajectory and intelligent safety protection.



9、大风报警、安全动态扫描等各种安全措施齐全。  
High wind alarm, security dynamic scanning and other safety measures are complete.

## 性能参数表

### Technical Data

		吊钩 Hook (t)	10	16	25	40	60	80	
基本参数 Basic Parameters	额定起重量 Rated Lifting Capacity	抓斗 Grab (t)	10	16	25	40	40	40	
	起升高度 Lifting Height	轨面以上 Above the Rail Surface (m)	20	25	25	28	30	35	
		轨面以下 Below the Rail Surface (m)	10	10	15	15	18	20	
	最大工作幅度 Max. Working Range (m)		30	35	35	35	40	45	
	最小工作幅度 Min. Working Range (m)		8.5	8.5	9.5	11	12	12	
	尾部回转半径 Slewing Radius of Tail (m)		6.5	7	7.5	8	9	9.5	
	轨距 Rail Gauge (m)		10.5/12	10.5/12	10.5/12/14	10.5/12/14/16	12/14/16	12/14/16	
	基距 Base Distance (m)		10.5/12	10.5/12	10.5/12/14	10.5/12/14	12/14/16	12/14/16	
	速度参数 Speed	起升速度 Lifting Speed	满载 Full Load (m/min)	40	40	50	50	40	30
			空载 No Load (m/min)	60	60	80	80	70	50
变幅速度 Luffing Speed (m/min)		40	40	50	50	30	30		
回转速度 Slewing Speed (r/min)		1/1.2/1.5	1/1.2/1.5	1/1.2/1.5	1/1.2/1.5	0.8/1	0.8/1		
大车运行速度 Crane Traveling Speed (m/min)		25/30	25/30	25/30	25/30	25/30	25/30		
车轮个数(个) Number of Wheels		16/20	20/24	24/32	32	32/40	40		
最大轮压(kN) Max. Wheel Load		250	250	250	250	300	300		
轨道型号 Rail Type		QU80	QU80	QU100	QU100	QU100	QU100		
供电电源 Power Supply		三相交流380V 50HZ 3 phase AC 380V 50HZ							

以上技术参数表所列项目为常规推荐参考, 可依用户实际要求。  
The items listed in above technical parameter table are for reference.





四连杆门座 Four-link Portal Crane



单臂架门座 Single-boom Portal Crane



单臂架门座 Single-boom Portal Crane



浮式门座  
Floating Portal Crane



京沪重工660t固定式门座起重机  
Beijing-Shanghai Heavy Industry 660tons Fixed Portal Crane



## 桥式抓斗卸船机

### Bridge-type Grab Ship Unloader

#### 产品概述:

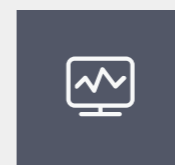
1. 桥式抓斗卸船机多用于散货港口、码头的散状物料船舶的卸船作业。可以输送各种不同密度和粒度的砂石、沙土、石灰石、水泥、煤炭、粮食等物料。
2. 其设计、制造、检验执行DIN、FEM、IEC、AWS、GB等国内外先进标准以及最新颁布的国家标准。主要由金属结构、抓斗、起升开闭机构、小车牵引机构、俯仰机构、大车运行机构、料斗及落料回收装置、防尘除尘系统、皮带转运系统、自行式司机室、电气系统、监视及报警系统、电梯等组成。适应船型从3000吨级至25万吨级，生产能力从400t/h至3000t/h。
3. 桥式抓斗卸船机以成熟可靠、对船型和货种适应性强、生产率高、自动化程度高、故障率低、维护保养方便等优点成为码头前方散货进口主要卸船机械。

#### Products Summary:

1. Bridge type grab ship unloader is mainly used for unloading bulk materials from ship in bulk cargo ports and terminal. It can also convey bulk materials with different densities and particle sizes, such as sand, limestone, cement, coal, grain and etc.
2. The design, manufacture and inspection comply with Chinese standard and international standards such as FEM, DIN, IEC, AWS and etc. It is mainly composed of metal structure, grab, lifting mechanism, opening& closing mechanism, trolley traction mechanism, luffing mechanism, crane traveling mechanism, hopper and blanking recovery device, dust removal system, belt conveyor system, self-propelled operator's cabin, electrical system, monitoring and warning system, elevator and etc. It adapts to ship type from 3000t to 250000ton and production capacity from 400t/h to 3000t/h.
3. Bridge type grab ship unloader is mostly port machine to load and unload bulk cargo in the terminal with the advantages such as maturation, reliability, strong adaptability to different ship types and cargo types, high productivity, high degree of automation, low failure rate and convenient maintenance.

## 技术特点

### Technical Features



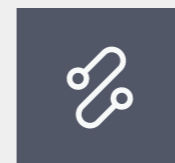
1. 矢量变频调速控制, 力矩平衡控制技术, CMS智能服务系统, 实时监控设备各机构运行状态;

Vector variable frequency speed control, torque balance control technology, CMS intelligent service system, real-time monitoring of running status.



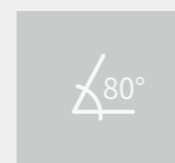
2. 电能回馈技术, 轨迹智能优化控制技术, 节能环保, 效率高, 舱口适应性好, 不受潮位落差影响;

power feedback technology, trajectory intelligent optimization control technology, energy saving and environmental protection, high efficiency, excellent hatch adaptability, free from the effect of tide level drop.



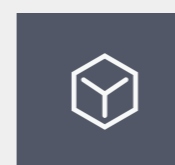
3. 选配作业轨迹智能优化控制技术, 自动/半自动控制技术;

intelligent optimization control technology of operation track as option, automatic and semi-automatic control technology.



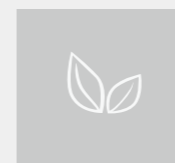
4. 机型成熟, 结构合理, 维护工作量小, 前大梁可实现80°俯仰功能, 方便船舶进出港口;

mature equipment, reasonable structure, small maintenance workload, realizable 80 degree luffing of boom, convenient for ship to enter and leave ports.



5. 行星差动四卷筒牵引式布置, 由起升、开闭卷筒的复合运行形成小车运行, 双前出绳, 折弯次数少, 布置空间紧凑;

planetary differential four-drum traction arrangement, trolley traveling formed by combined operation of lifting drum and opening& closing drum, two front rope along girder direction, less bending times, compact layout



6. 绿色环保(干雾除尘、水雾除尘)

green and environmental protection(dry mist dust removal and water mist dust removal)



7. 大风报警、安全动态扫描等各种安全措施齐全。

A variety of safety measures, including strong wind alarm, safety dynamic scanning.

## 性能参数表

### Technical Data

桥式抓斗卸船机主要技术参数Main Technical Parameters										
额定生产能力 Rated Capacity		t/h	400	600	800	1000	1250	1500	2000	2500
物料特性 Material Characteristics	适用物料 Materials	煤、焦炭、石灰石、矿石、砂石料、粘土等散状物料 bulk materials such as coal, coke, iron ore, limestone, sand, clay etc.								
	密度 Density	t/m <sup>3</sup>	0.5~2.5							
	粒度 Particle Size	mm	0~300							
起重量 Lifting Capacity		t	10	16	20	25	32	40	50	63
工作速度Speed	起升开闭 Lifting, Opening and Closing	m/min	(60~280) / (100~240)							
	小车运行 Trolley Traveling		100~260							
	大车运行 Crane Traveling		20~40							
	臂架俯仰 Boom Hoist		5~10							
	司机室运行 Cabin Traveling		20~25							
轨距 Rail Gauge		m	12.5	15	16	20	22	25	25	30
			或根据用户码头情况确定 to be confirmed according to the user's terminal conditions							
最大轮压 Maximum Wheel Load		KN	300/500							
荐用轨道 Recommended Rail		QU80/QU100/QU120								
供电方式 Power Supply Mode		电缆卷筒 cable drum								
通讯方式 Communication Type		电缆卷筒/无线 cable drum/wireless								
控制方式 Control Method		全自动/PLC程控/手动/单动 fully automatic/PLC/manual operation/single mechanism operation								

以上技术参数表所列项目为常规推荐参考,可依据用户实际要求。  
The items listed in above technical parameter table are for reference.



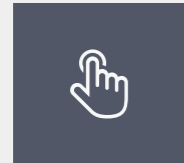
## 装船机 Ship Loader

### 产品概述:

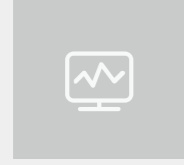
1. 装船机是用于散料港口、码头装船时使用的大型散料机械,装船机通常是连续装船作业,需要与之配套连续物料输送皮带机。可以输送各种不同密度和颗粒的砂石、砂土、石灰石、水泥、煤炭、粮食等物料。
2. 其设计、制造、检验执行DIN、FEM、IEC、AWS、GB等国内外先进标准以及最新颁布的国家标准。主要由金属结构、行走机构、立柱、回转机构、俯仰机构、臂架伸缩机构、溜筒伸缩机构、尾车、皮带输送系统、配重、喷水除尘系统、电气系统等组成。
3. 装船机按机构性能特点可分为移动式、弧线摆动式、墩柱式、直线摆动式,目前市场主要机型以前两种居多。
4. 我公司提供的装船机适应散货船型从3000吨级至15万吨级,生产能力200~12000t/h,装技术先机、性能稳定、使用可靠、效率高、寿命长、维护保养方便、节能环保,能够满足高效频繁的作业需求。

### Products Summary:

1. Ship loader is large-scale bulk machinery used for loading materials in bulk ports and terminals and conveying bulk materials with different densities and particle sizes, such as sand, limestone, cement, coal, grain and etc. It usually provides continuous loading operation together with belt conveyor.
2. The design, manufacture and inspection comply with latest Chinese standard and international standards such as FEM, DIN, IEC, AWS and etc. It is mainly composed of metal structure, traveling mechanism, column, rotating mechanism, luffing mechanism, telescopic boom gear, telescopic chute mechanism, tripper car, belt conveying system, counterweight, water spray dust removal system, electrical system and etc.
3. It is divided into four types according to performance characteristics, respectively mobile type, arc trajectory swing type and liner swing type. Now, the first two types ship loader are the main products in the market.
4. The ship loader adapts to ship type from 3000t to 150000ton and production capacity from 200t/h to 12000t/h. It owns advanced technology, stable performance, mature operation, high efficiency, long service life, easy maintenance, energy saving and environmental protection as well as meets efficient and frequent operation requirements.



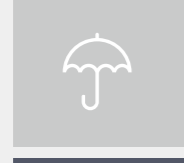
1. 多种操作模式、自由无缝切换。单动、手动、半自动以及就地模式, 可根据不同作业需求自由切换, 无任何干扰影响;  
multiple operation modes with free switching: single action, manual operation, semi-automatic operation and local mode according to different operation requirements.



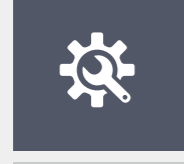
2. 矢量变频调速控制, CMS智能服务系统, 实时监控设备各机构运行状态;  
Vector variable frequency speed control, CMS intelligent service system, real-time monitoring of running status.



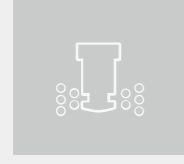
3. 臂架可俯仰、伸缩, 通过与大车运行配合, 改变溜筒装料位置适应不同船型的装船作业, 操作简单、作业方式灵活;  
luffing operation and telescopic operation of boom, adaptability to different ship types by changing chute charging position and cooperating with crane traveling, simple and flexible operation.



4. 与地面皮带输送设备实现多机联动保护;  
linkage operation with ground belt conveyor.



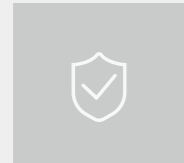
5. 机型成熟, 结构合理, 维护工作量小;  
mature equipment, reasonable structure, small maintenance workload



6. 通过溜筒伸缩可调、以及整机物料转运点喷水除尘系统, 满足绿色环保的作业需求;  
telescopic and adjustable chute, water spray dust system at transfer points of materials, to meet green and environmental operation needs



7. 绿色环保(干雾除尘、水雾除尘);  
green and environmental protection(dry mist dust removal and water mist dust removal)



8. 大风报警、安全动态扫描等各种安全措施齐全。  
A variety of safety measures, including strong wind alarm, safety dynamic scanning.

装船机主要技术参数Main Technical Parameters			
装船能力 Loading Capacity		t/h	200~12000
物料特性 Material Characteristics	适用物料 Materials		煤、焦炭、石灰石、矿石、砂石料、粘土等散状物料 bulk materials such as coal, coke, iron ore, limestone, sand, clay etc.
	密度 Density	t/m <sup>3</sup>	0.5~2.5
	粒度 Particle Size	mm	0~300
设计船型 Ship Type		DWT	3000~150000
臂架外伸 Boom Outreach	最大 Maximum	m	12~55
	最小 Minimum	m	6~27.5
输送皮带 Conveyor Belt	带宽 Belt Width	mm	650~2400
	带速 Belt Speed	m/s	1.25~5
臂架俯仰 Boom Luffing	工作 Operation	°	-12~+15
	非工作 Non-operation	°	70
走形速度 Traveling Speed		m/min	5~30变频调速 frequency control
轨距 Rail Gauge		m	10~24
最大轮压 Maximum Wheel Load		KN	300/350
荐用轨道 Recommended Rail		QU80/QU100	
供电方式 Power Supply Mode		电缆卷筒/安全滑触线 cable drum/safety bus bar	
通讯方式 Communication Mode		电缆卷筒/无线 cable drum/wireless	
控制方式 Control Method		全自动/PLC程控/手动/单动 fully automatic/PLC/manual operation/ single mechanism operation	

以上技术参数表所列项目为常规推荐参考, 可依据用户实际要求。  
The items listed in above technical parameter table are for reference.



## 悬臂式斗轮(堆)取料机 Cantilever-type Bucket-wheel (stacker) Reclaimer

### 产品概述:

1. 悬臂斗轮(堆)取料机,是一种高效连续作业的散状物料大型装卸设备,主要应用于电力、冶金、煤炭、建材和化工等行业的煤炭和矿石储料场。
2. 其设计、制造、检验执行DIN、FEM、IEC、AWS、GB等国内外先进标准以及最新颁布的国家标准。主要由金属结构、斗轮机构、回转机构、臂架带式输送机、俯仰机构、大车运行机构、尾车及中心落料斗、除尘系统、润滑系统、司机室、电气室、电气系统、监视及报警系统等组成。
3. 我公司的悬臂斗轮(堆)取料机,其臂长范围为20~60m,堆取料能力为200~11000t/h。此设备广泛应用于条形原料场。

### Products Summary:

1. Cantilever type bucket wheel(stacker)reclaimer is large-scale handling equipment for bulk materials with efficient and continuous operation which is mainly used in coal and ore storage yards of power, metallurgy, coal, building materials and chemical industry.
2. The design, manufacture and inspection comply with latest Chinese standard and international standards such as FEM, DIN, IEC, AWS and etc. It is mainly composed of metal structure, bucket wheel ,rotating mechanism, cantilever belt conveyor, luffing mechanism, crane traveling mechanism, tripper car, central hopper, dust removal system, lubricating system, operator' s cabin, electrical room, electrical system, monitoring and warning system.
3. Cantilever type bucket wheel (stacker) reclaimer produced by us has an arm length range of 20~60m, stacking and reclaiming capacity of 200~11000t/h. It is widely used in strip raw material yard.

## 技术特点

### Technical Features



1.多种操作模式如单动、手动、半自动以及就地模式,自由无缝切换;  
multiple operation modes with free switching: single mechanism operation, manual operation, semi-automatic operation and local mode



2.运行自动可控、数据实时反馈;  
automatically controlled operation and real-time data feedback.



3.及时预警提示,高可靠的安全防护。在各运行机构处均设置机械及感应限位开关,同时在程序监测中设置预警提示及极限停止点,建立双重安全防护;  
prompt early warning, reliable safety protection. Equip mechanical and inductive limit switch for every traveling mechanism, set early warning and limit stop points in program monitoring, establish double safety protection.



4.三维立体防碰、定位精准可靠;  
three-dimensional anti-collision, precise and reliable positioning.



5.智能集中润滑配备,降低劳动强度;  
intelligent centralized lubrication device to reduce labor intensity.



6.多功能尾车布置形式,可满足物料堆、取、分流三种输送工艺流程;  
multi-function tripper car layout to satisfy conveying process of material stacking, reclaiming and distribution.



7.智能干雾除尘系统绿色环保;  
Intelligent dry mist dust removal system, green and environmental protection.



8.设备设置视频监控系统,运行关键部位无死角监测,司机室和中控室双重监控;  
set video monitoring system, no dead angle in monitoring of key traveling positions, dual monitoring of operator' s cabin and central control room.



9.设备可选配无人值守控制系统。  
Optionally unattended control system.

# 性能参数表

## Technical Data

悬臂式斗轮（堆）取料机主要技术参数Main Technical Parameters											
生产能力 Production Capacity	取料 Reclaiming Capacity	t/h	200~10000								
	堆料 Stacking Capacity	t/h	400~11000								
料堆高度 Material Pile Height	轨上 Above Rail	m	6~19								
	轨下 Below Rail	m	0.5~2								
物料特性 Materials Characteristics	适用物料 Materials		煤、焦炭、石灰石、矿石、砂石料、粘土等散状物料 bulk materials such as coal, coke, iron ore, limestone, sand, clay etc.								
	密度 Density	t/m <sup>3</sup>	0.5~2.5								
	粒度 Particle Size	mm	0~300								
斗轮直径 Bucket Wheel Diameter		m	3.3~10								
臂架回转 Boom Rotating	半径 Radius	m	20	25	30	35	40	45	50	55	60
	角度 Angle	°	±165(±110)								
输送皮带 Conveyor Belt	带宽 Belt Width	mm	650~2400								
	带速 Belt Speed	m/s	1.25~5								
走行速度 Traveling Speed		m/min	5~30变频调速 frequency control								
轨距 Rail Gauge		m	4.5	5	6	7	8	9	10	11	12
最大轮压 Maximum Wheel Load		KN	250/300								
荐用轨道 Recommended Rail			P50/QU80/QU100								
供电方式 Power Supply Mode			电缆卷筒/安全滑触线 cable drum/safety bus bar								
通讯方式 Communication Type			电缆卷筒/无线 cable drum/wireless								
控制方式 Control Method			全自动/PLC程控/手动/单动 fully automatic/PLC/manual operation/ single mechanism operation								

以上技术参数表所列项目为常规推荐参考,可依据用户实际要求。  
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