

Yuantai Crane & Hoist System



Yuantai Crane Machinery

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Yuantai Crane

Yuantai Crane established in Feb, 2012 to focus on overseas crane market of Dongqi Group.

Dongqi Group, with an area of 240,000m², gross investment of RMB 240 million yuan and registered capital of RMB 108 million yuan. There are 2,000 sets of various production and testing equipment with an annual comprehensive production capacity of more than 10,000 sets of cranes. Started from crane parts, Dongqi has been the top 1 manufacturer of crane parts such as drums and wheels in China.

Dongqi invested heavily on R&D on European standard cranes and has technical cooperation with famous European brands such as Schneider, Siemens and etc. It is committed to be the leader of innovation and development of European-spec crane technology.

As technical crane manufacturer, Yuantai provide system and complete crane design, installation, training and crane parts support.

Yuantai Crane are committed to become a global expert of crane solution, providing customers with professional crane solutions and crane equipment.

Vision

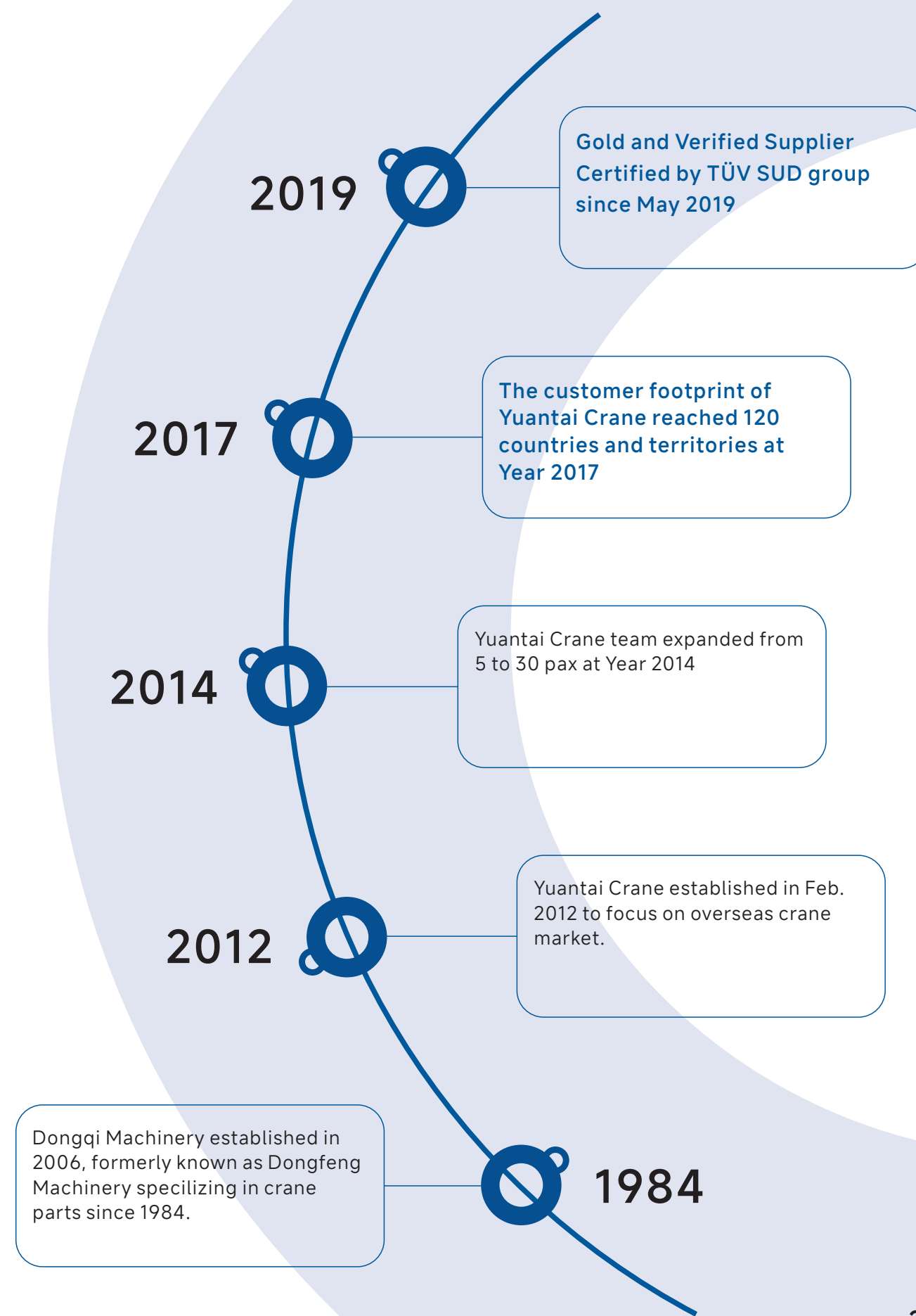
Become global expert of crane solution

Mission

Continuously create value for clients with customer-centric service

Values

Ownership, reflection and iteration, quality delivery, winning trust, creating value



Experience in a wide range of industries

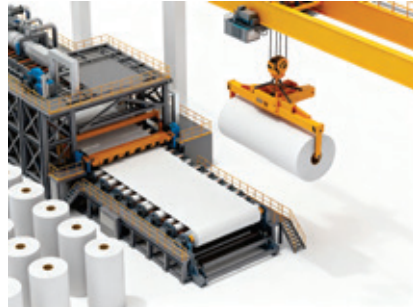
Yuantai Crane has great experience in a wide range of industries, such as general manufacturing, metals processing, paper and forest, automotive, container handling, petroleum gas, power, waste to energy and biomass, and etc.



Light Duty Workstation

Workstation Bridge Crane / Portable Gantry Crane / Jib Crane
Capacity: 0.25-20 tons

Flexible movement, precise positioning, and space saving



General Manufacturing

Single, Double Girder Overhead Crane / Gantry Crane / Jib Crane
/ Electric Hoist
Capacity: 0.25-300 tons

Modular design, easy installation, low energy consumption



Flammable and Explosive Industries

Explosion-proof Bridge Cranes / Explosion-Proof Electric Hoists
Capacity: 0.5-300 tons

Meets IIB/IIC explosion-proof standards and provides comprehensive safety protection.



Containers / Ports

Rail-mounted, Rubber-tired container Gantry Cranes /
Straddle Carriers
Capacity: 35-70 tons

High-efficiency stacking, intelligent positioning, energy saving
and consumption reduction



Shipbuilding and Repair

Shipbuilding Gantry Cranes, Marine Travel Lift
Capacity: 10-1000 tons

Multi-condition adaptability, precise rotation, wind-resistant
design



Metals Processing

Single, Double Girder Overhead Crane / Gantry Crane
Capacity: 5-300 tons

Modular design, easy installation, low energy consumption



Power



Automotive



Waste to Energy and Biomass

Products Overview

Light Duty Crane System



0.5-3 tons
Workstation Bridge Crane



1-20 tons
Portable Gantry Crane



0.5-16 tons
Freestanding Jib Crane



0.5-2 tons
Portable Jib Crane

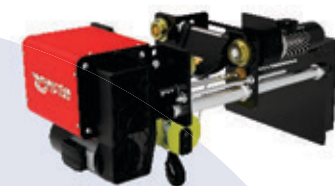


0.5-5 tons
Wall-mounted Jib Crane



0.5-10 tons
Wall-traveling Jib Crane

Electric Hoist System



3-20 tons
Monorail Electric Hoist



0.5-30 tons
Electric Chain Hoist



5-300 tons
Crab Electric Hoist

Overhead Crane System



1-20 tons Single Girder
Overhead Crane



5-300 tons Double Girder
Overhead Crane



1-10 tons Underhung
Overhead Crane



5-300 tons Explosion-proof
Overhead Crane



5-20 tons Garbage Grab
Overhead Crane

Gantry Crane System



1-20 tons Single Girder
Gantry Crane



5-300 tons Double Girder
Gantry Crane



Container Gantry Crane



Straddle Carrier



Ship-building Gantry Crane



Marine Travel Lift
(Capacity up to 1000 tons)

Workstation Bridge Crane



Features	Specifications
Capacity	250-2000 Kg
Lifting Height	Customized
Span	1-9 meters
Power Supply	220-660V 50/60Hz 3Phase

Features & Benefits

- ⊙ Enclosed track / easy movement and long life
- ⊙ Rigid runways / superior load positioning – no movement or “crabwalking” of the bridge
- ⊙ Ease of Installation / install on any standard 6" concrete floor
- ⊙ Smooth rolling surface / Easier movement of bridge and trolleys
- ⊙ Multiple track profiles and spanning capabilities/Adaptable, flexible, and cost competitive

Applications

- ⊙ Applications with lighter loads (less than 2000 Kg.)
- ⊙ Parts Assembly
- ⊙ Machining
- ⊙ Palletizing loads
- ⊙ Injection Molding
- ⊙ Warehouse loading docks
- ⊙ Process Equipment Maintenance
- ⊙ Truck Service Centers



Portable Gantry Crane



Features	Specifications
Capacity	Up to 20 tons
Lifting Height	1-9 meters
Span	2-12 meters
Power Supply	220-660V 50/60Hz 3Phase

Crane Types

- ⊙ Manual Mobile Gantry Crane with Manual Hoist
- ⊙ Manual Mobile Gantry Crane with Electric Hoist
- ⊙ Electric Mobile Gantry Crane with Electric Hoist
- ⊙ Adjustable Portable Gantry Crane with Electric Hoist
- ⊙ Foldable Aluminum Portable Gantry Crane with Wheels
- ⊙ Fixed Type Foldable Aluminum Gantry Crane

Hoist Options

- ⊙ Manual chain block
- ⊙ Electric chain hoist
- ⊙ Electric wire rope hoist



Jib Crane



Freestanding Jib Crane

Freestanding jib crane is the most popular type of jib system because they can be installed virtually anywhere including indoors or outdoors. Freestanding jib crane systems can be used underneath large bridge crane systems, or in open areas where they can support individual work cells. They can be used outdoors at marinas or loading docks, and indoors for machining and assembly operations where multiple jibs can be used in conjunction for staged operation.

Features	Specifications
Capacity	1-16 tons
Lifting Height	Customized
Span	1.5-6.5 meters
Power Supply	220-660V 50/60Hz 3Phase

Mobile Jib Crane

Mobile jib crane with flexible mobility, wide adaptability and other characteristics, is an efficient automatic production line on the necessary emergency lifting equipment, with it to ensure that the production line unimpeded. The jib crane widely used in factories and mines, workshops, field, warehouse installation of small equipment, cargo and workpiece handling, and low construction should not be set up driving and other places.



Wall-mounted Jib Crane

Wall-mounted jib crane does not require a foundation or floor space, but instead mount to the building's existing support beams. This mounting style provides excellent clearance above and below the boom, and these jib cranes can swing out of the way of overhead cranes.

Features	Specifications
Capacity	Up to 5 tons
Lifting Height	Customized
Span	1-6 meters
Power Supply	220-660V 50/60Hz 3Phase

Features	Specifications
Capacity	Up to 10 tons
Lifting Height	Customized
Span	3-10 meters
Power Supply	220-660V 50/60Hz 3Phase

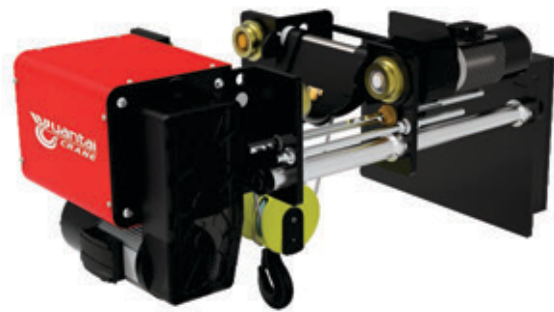
Wall-traveling Jib Crane

Wall-traveling Jib Cranes can be operated below overhead cranes, enabling several logistical flows in production areas. They can also handle heavier loads when compared to standard workstation lifting systems. Wall traveling jib cranes also provide a cost efficient and flexible means of lifting and handling loads with hook coverage.

On many situations, it undoubted will be the most cost-effective.



Electric Hoist



European-spec electric wire rope hoist is a kind of new products developed with advanced design technology according to the latest national standard GB/T3811 and refers to European FEM standard. It is a new energy-saving and environment-friendly product whose technology is internationally advanced and cost performance is in the top among the same products.

Applications

European-spec monorail electric wire rope hoist can be equipped on overhead cranes, gantry cranes, jib cranes, and monorails as lifting mechanism.

Features	Specifications
Capacity	5-20 tons
Lifting Height	6/9/12/18 meters
Working Duty	M5
Power Supply	220-660V 50/60Hz 3Phase

Features & Benefits

- ◎ Compact structure, light weight, small wheel pressure, maximum use of space, comprehensive cost performance
- ◎ Modular design, low maintenance costs, complete spare parts service
- ◎ Adopt low clearance design to save building height for customer workshop design, increase workshop hoisting area and save construction cost
- ◎ Selected quality parts, low noise, safe and reliable, durable
- ◎ Precise positioning, efficient operation, high sustainable work efficiency



NR Low Headroom Electric Hoist



NRS Standard Headroom Electric Hoist



BNR Explosion-proof Electric Hoist



Electric crab hoist (double girder hoist) is designed according to the latest national standard GB/T3811 and with reference to European FEM standard, has the features of lightweight, modular design, and advanced manufacturing process. It greatly reduces the user's crane construction costs and crane operating costs, and improves the crane's overall quality and performance.

Applications

Electric Crab Hoist is widely used on double girder crane as a lifting mechanism, such as double girder overhead crane and double girder gantry crane. It has an independent electronic control system, which can work with the crane after being connected to the crane system.



NRT Electric Crab Hoist

Features	Specifications
Capacity	Up to 300 tons
Lifting Height	6/9/12/18 meters
Working Duty	M5
Power Supply	220-660V 50/60Hz 3Phase

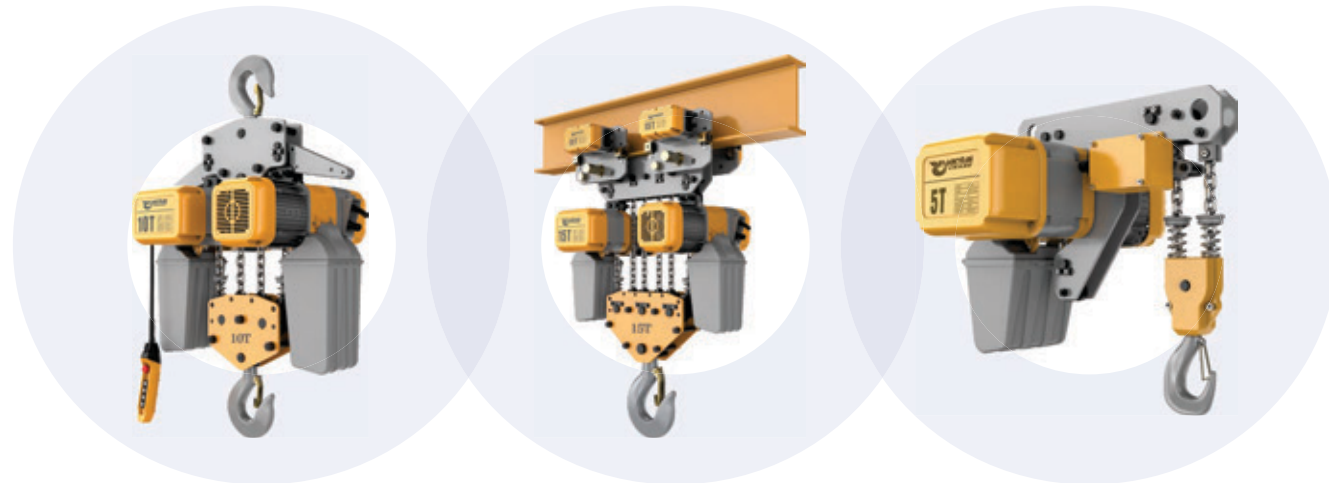
Features & Benefits

- ◎ Crab hoist trolley frame made by rectangular hollow section steel, light weight and durable.
- ◎ Wheels made by alloyed steel material, high wear-and-tear resistance feature.
- ◎ Double driving motors distribute on both sides, smooth running along straight line.
- ◎ Compact structure maximizes the effective three-dimensional space of the hook



BNRT Explosion-proof Electric Crab Hoist

European-spec Electric Chain Hoist



European electric chain hoist with high performance, high safety reliability, and advantages, using use humanized design concept to increase your productivity and make the work achieve the highest efficiency.

Applications

European-spec electric chain hoist can be equipped on overhead cranes, gantry cranes, jib cranes, workstation crane and monorails as lifting mechanism.

Features & Benefits

- ◎ Sensitive and Fast
European electric chain hoist with flexible action, and positioning accuracy.
- ◎ Longer service life for greater efficiency
In practical terms, European electric chain service life is extended by approx. 20% in comparison with the conventional 2m classification for chain hoists FEM rating.
- ◎ Maintenance Fast and Simple
European electric chain hoist, all main drive components, such as gearbox, brake, and clutch made by a special process, and is durable, it has a long working life with High quality even in busy work.

Features	Specifications
Capacity	0.25-60 tons
Lifting Height	6/9/12/18 meters
Working Duty	M5
Power Supply	220-660V 50/60Hz 3Phase

Note: The Max. lifting capacity varies depending on the model of the electric chain hoist. Please consult our sales for details.



0.25-60 tons Fixed type Electric Chain Hoist



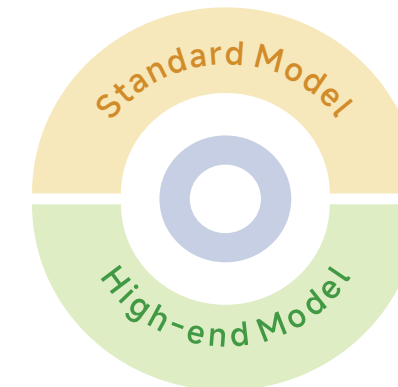
0.25-30 ton Traveling Type Electric Chain Hoist



1-15 tons Low Headroom type Electric Chain Hoist



1 ton Cleanroom Type Electric Chain Hoist



1-32 tons Explosion-proof Electric Chain Hoist



0.25-60 tons Fixed type Electric Chain Hoist



0.25-30 ton Traveling Type Electric Chain Hoist



1-15 tons Low Headroom type Electric Chain Hoist

More Electric Hoists



0.5-32 ton CD1 Type Single Speed Electric Hoist



0.5-32 ton MD1 Type Double Speed Electric Hoist



0.5-20 ton CDL /MDL Type Low Headroom Electric Hoist



0.5-20 ton BCD / BMD Type Explosion-proof Electric Hoist

Traditional Electric Hoist



0.5-20 ton YH type Metallurgical Electric Wire Rope Hoist



0.5-32 ton Traditional Double Girder Electric Crab Hoist



Double Hook Electric Wire Rope Hoist



0.25-2 ton Stage Electric Chain Hoist



0.5-35 tons Fixed type Electric Chain Hoist



0.5-10 tons Manual Trolley Electric Chain Hoist

Traditional Electric Chain Hoist

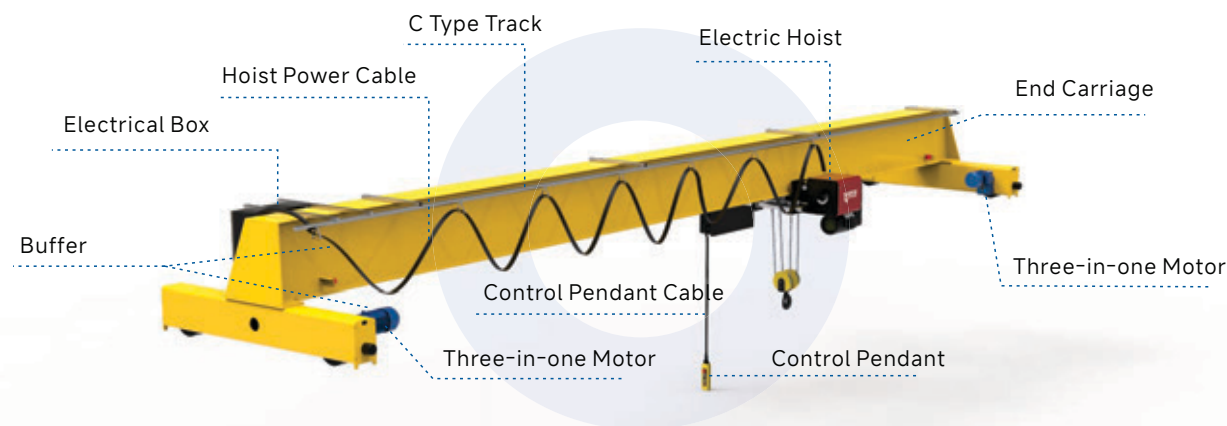


0.5-30 ton Motorized Trolley Electric Chain Hoist



0.5-10 tons Low Headroom type Electric Chain Hoist

European-spec Single Girder Overhead Crane



HD model European-spec single girder overhead crane is designed according to FEM / DIN standard, with optimization design concepts of small dimension and light dead weight.

Compared with traditional single girder overhead crane, European-spec single girder overhead crane has the advantages of minimum limiting distance from hook to wall, lower headroom and higher lifting height.

Applications

Single girder overhead cranes are mostly used indoor, but sometimes, they also can be used outdoor. Applications include workshop, maintenance shop, warehouse, shipyards, marinas, steel mills, military, and etc.

Features & Benefits

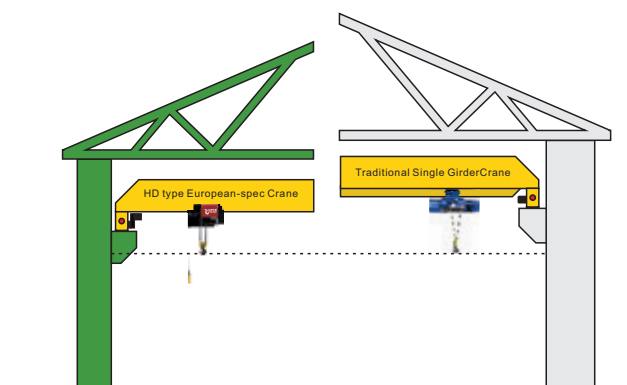
- ◎ FEM and DIN design standards
- ◎ Light weight, light wheel load, reliable performance
- ◎ Easy to install, operate and maintain
- ◎ Up to 20 tons capacity meets the needs of normal working conditions
- ◎ Epoxy zinc-rich primer and chlorinated rubber topcoat
- ◎ Pendant control, remote control and cabin control available
- ◎ Overload limiter, lifting height limiter, cross travelling limiter and crane long travel limiter are included
- ◎ Automatic power-off protection
- ◎ Frequency conversion is available for lifting, hoist and crane travelling
- ◎ Customized overhead crane solution available for special industries

Features	Specifications
Capacity	Up to 20 tons
Lifting Height	6/9/12/15/18 meters
Span	3~28.5 meters
Power Supply	220~660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40 °C



Note: For non-standard specifications, please talk to your sales representative for consultation on customized product service.

Comparison of HD model and traditional LD type single girder overhead crane

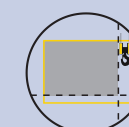


- ◎ Lower Building Height
- ◎ Smaller Columns
- ◎ Lower Cost
- ◎ Smaller non-working Area

- ◎ Green intelligent manufacturing, modular design, compact and beautiful structure, 20%-30% * reduction in weight.
- ◎ Low headroom, the height is reduced by 20% -30%*, reducing plant construction costs, increase the effective use of space workshop.
- ◎ Energy saving and environmental protection (power saving), full vehicle frequency conversion, energy consumption reduced by 15%-30%*.
- ◎ Safe and reliable, adopts safety monitoring, low noise, low maintenance cost and convenient and little maintenance.



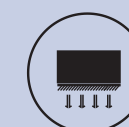
Modularization design



Increase Working Area



Maintenance-free



Light Weight

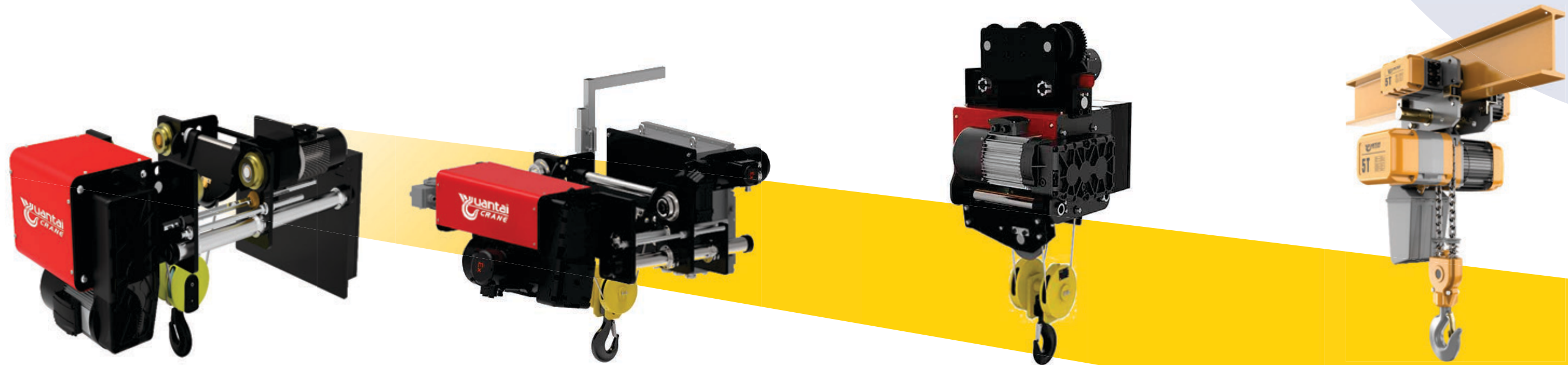


Low Energy Consumption



Reduce Cost

Hoist Options for HD model Overhead Crane



NR Low Headroom Electric Hoist

NR type low headroom electric hoist has modular design and low headroom features, which can maximize the working height and expand the working area under the crane.

Capacity: 3-20 tons

BNR Explosion-proof Electric Hoist

BNR type explosion-proof electric hoist is specially designed for flammable and explosive environments and has excellent explosion-proof performance. It is the main lifting mechanism for explosion-proof bridge crane which can maximize the lifting height.

Capacity: 3-20 tons

HD model European-spec Explosion-proof Single Girder Overhead Crane

NRS Standard Headroom Electric Hoist

NRS type standard headroom electric hoist also adopts modular design, but it is equipped with independent running trolley. It is recommended for capacity of 16 tons and above, or when the track is curved.

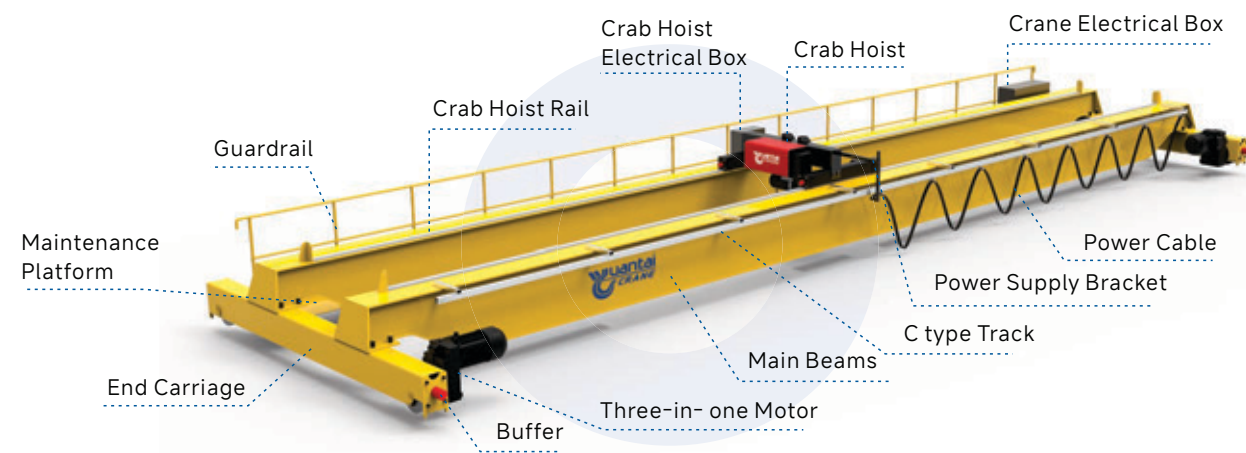
Capacity: 3-20 tons

WBH Electric Chain Hoist

WBH type electric chain hoist is a new designed European-spec electric chain hoist. The hoist with high performance, high safety reliability, and advantages, using use humanized design concept to increase your productivity and make the work achieve the highest efficiency.

Capacity: 0.5-30 tons

European-spec Double Girder Overhead Crane



QDX model European-spec double girder overhead crane has features of design concepts, small dimensions, light dead weight, compared with traditional cranes, the limiting distance is minimum from hook to wall, and headroom is the lowest, which makes cranes work closer to the front, and lifting height higher that increases effective working space of workplace.

New workshops can be designed more smaller and have more functions because the dead weight is light, and the wheel pressure is small. Smaller size workplace means saving a huge amount of money from initial construction investment, long-term heating, air conditioning and other maintenance free.

Applications

Applications include workshop, maintenance shop, warehouse, shipyards, marinas, steel mills, military, and etc.

Features & Benefits

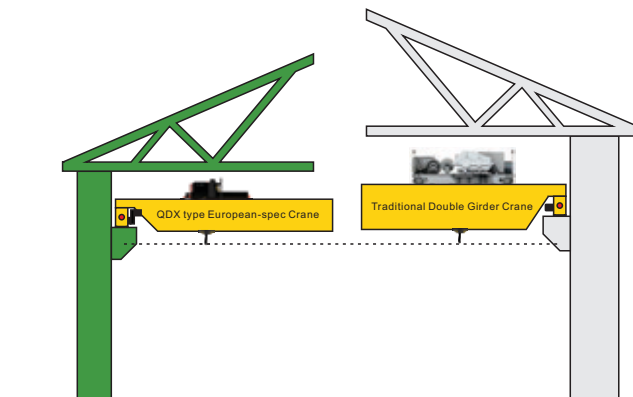
- ◎ Compact structure, small limit size.
- ◎ Frequency conversion speed regulation, stable operation.
- ◎ Perfect protection device, safe and reliable.
- ◎ Integrated transmission, energy saving and high efficiency.
- ◎ Silent drive, low noise and environmental protection.
- ◎ Overload limiter, height limiter, Stroke limiter, photoelectric limiter and other security measures are equipped according to different working conditions, crane black box with recorded analysis functions can be added based on the customer requirements.
- ◎ Customized crane can be produced.

Features	Specifications
Capacity	Up to 300 tons
Lifting Height	6/9/12/15/18 meters
Span	3~35 meters
Power Supply	220~660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40 °C



Note: For non-standard specifications, please talk to your sales representative for consultation on customized product service.

Comparison of QDX model and traditional double girder overhead crane

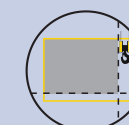


- ◎ Small dimensions, light dead weight.
- ◎ Minimum approach dimensions due to compact traveling hoist design, that means from hook to wall, the distance is smaller, so in the same workshop condition, the cross-traveling distance can be longer.

- ◎ Low headroom. It is very low headroom designed, which can increase the lifting height and save the workplace space and reduce the workshop construction cost.
- ◎ Low vibration and noise design, reduce noise nuisance.
- ◎ Working more stable and steadier, reduces the risk of the lifted product damage from crane wobbling.
- ◎ Three-in-one motor, reducer and brake, speed controlled by frequency converter, more option for speed requirement. We can not only offer our own brand, but also ABM, SEW, and Siemens brand.



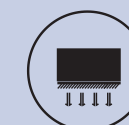
Modularization design



Increase Working Area



Maintenance -free



Light Weight

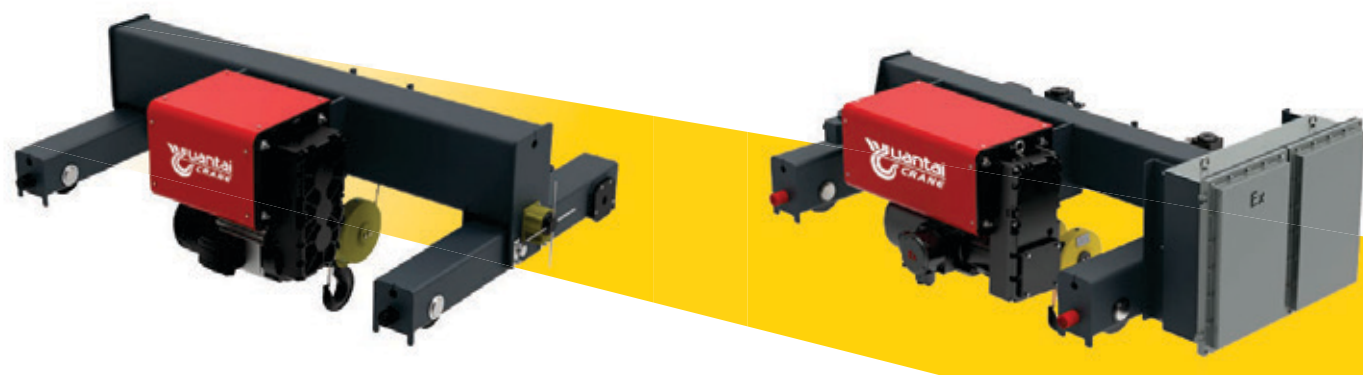


Low Energy Consumption



Reduce Cost

Hoist Options for QDX model Overhead Crane



NRT type European-spec Electric Crab Hoist

NRT type electric crab hoist is a new generation of wire rope electric hoist built with modular, lightweight and intelligent design concepts. It has the advantages of compact structure, superior performance, safety and reliability, energy saving and high efficiency, low noise and environmental protection. It is suitable for lifting and handling objects in workshops, warehouses and power stations.

Capacity: 5-300 tons

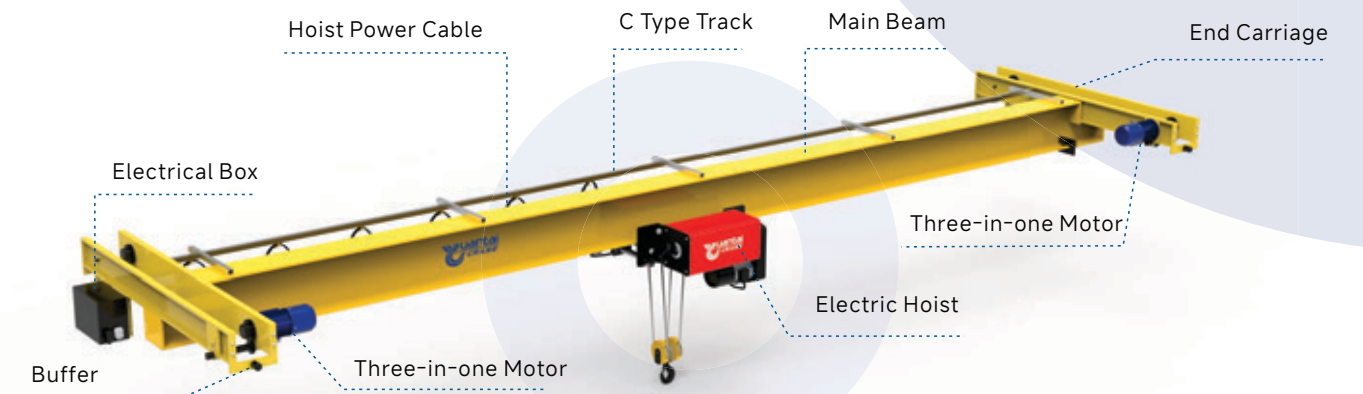
BNRT type Explosion-proof Electric Crab Hoist

BNRT type Explosion-proof electric crab hoist is a series of explosion-proof electric hoists developed based on the NRT type European-spec electric crab hoist. It has the advantages of compact structure, superior performance, safety and reliability, energy saving and high efficiency, low noise and environmental protection. It is suitable for lifting and handling objects in explosive gas environments in workshops, warehouses, power stations and other places.

Capacity: 5-300 tons

QDX model European-spec Explosion-proof Double Girder Overhead Crane

Underhung Overhead Crane



NLX model European-spec electric underhung overhead crane is a single-beam product developed by Yuantai Crane with the ND/NR model low-headroom electric hoist as the lifting mechanism.

It has the advantages of superior performance, safety and reliability, energy saving and high efficiency, low noise and environmental protection. It is suitable for lifting and handling objects in workshops, warehouses, power stations and other places.

Applications

Applications include workshop, maintenance shop, warehouse, shipyards, marinas, steel mills, military, and etc.

Features & Benefits

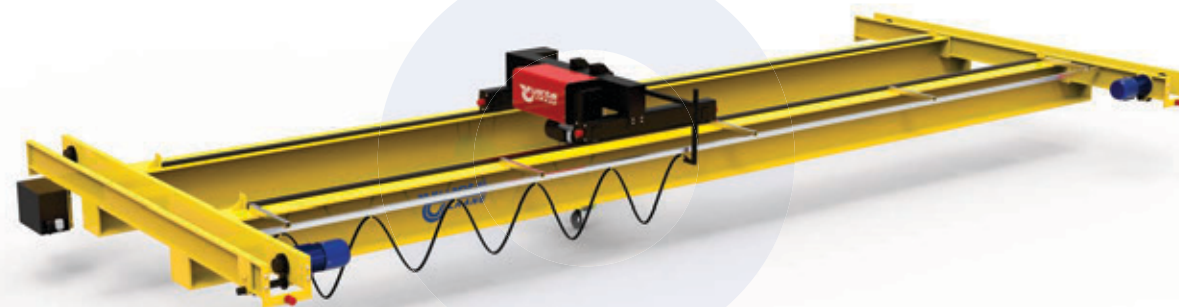
- ◎ Design is based on FEM / DIN standards.
- ◎ Compact structure, small limit size.
- ◎ Frequency conversion speed regulation, stable operation.
- ◎ Perfect protection device, safe and reliable.
- ◎ Integrated transmission, energy saving and high efficiency.
- ◎ Silent drive, low noise and environmental protection.
- ◎ Crane is controlled by Three-In-One mechanism with frequency conversion, to reduce the equipment noise.
- ◎ Overload limiter, height limiter, Stroke limiter, photoelectric limiter and other security measures are equipped according to different working conditions, crane black box with recorded analysis functions can be added based on the customer requirements.

Underhung Overhead Crane



Single Girder Underhung Overhead Crane

Features	Specifications
Capacity	Up to 10 tons
Lifting Height	6~30 meters
Span	3-22.5 meters
Power Supply	220-660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40°C



Double Girder Underhung Overhead Crane

Explosion-Proof Overhead Crane



Explosion-proof double-girder bridge crane is based on QDX type double girder bridge crane. All motors and electrical parts adopt explosion-proof measures and are suitable for flammable and explosive places. It can be used in explosion-proof levels of IIB, IIC and dust environments.

Applications

Explosion-proof overhead crane work in flammable, explosive and corrosive media environments, is widely used in factories, warehouses, material yards and other places in military, chemical, coal washing plants, and pharmaceutical units.

Features & Benefits

- ◎ FEM and GB production standards
- ◎ Epoxy zinc-rich primer and chlorinated rubber topcoat
- ◎ Pendant control, remote control and cabin control available
- ◎ Overload limiter, lifting height limiter, cross travelling limiter and crane long travel limiter are included
- ◎ Automatic power-off protection
- ◎ Frequency conversion is available for lifting, cross travelling and crane travelling
- ◎ Customized overhead crane solution available for special industries

Explosion-Proof Overhead Crane



 HD model Explosion-proof Single Girder Overhead Crane

Features	Specifications
Capacity	Up to 20 tons
Lifting Height	6/9/12/15/18 meters
Span	3-28.5 meters
Power Supply	220-660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40°C

Features	Specifications
Capacity	Up to 300 tons
Lifting Height	6/9/12/15/18 meters
Span	3-35 meters
Power Supply	220-660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40°C



 QDX model Explosion-proof Double Girder Overhead Crane

Garbage Grab Overhead Crane



Yuantai Crane is a leading manufacturer of overhead cranes, and their Grab Overhead Crane is one of their most popular products. A grab overhead crane is a kind of overhead crane that is equipped with a grab bucket to handle bulk materials. A grab bucket is a device that can open and close to pick up and release materials. This type of overhead crane usually has a double girder structure and a heavy-duty work class. The rated lifting capacity of a grab overhead crane is 5-20t. It can be used for loading and unloading coal, ore, sand, gravel, scrap metal, garbage and other scattered objects in power station, storage, workshop, port, waste disposal and other industries.

The Grab Overhead Crane from Yuantai Crane is a reliable and versatile option for material handling in a range of industries. With its high lifting capacity, customizable grab bucket, and user-friendly control system, it is an excellent choice for businesses looking to improve their efficiency and productivity.

Features & Benefits

- ◎ Optimal designed grab cranes are widely used for serving stores and bunkers with automatic, semiautomatic and manual control.
- ◎ Laser-assisted height measurement is equipped with the grab overhead crane.
- ◎ Grab cranes can work all around clock.
- ◎ Safety protection devices such as limit switches for lift and CT are equipped for safe lifting and traveling.
- ◎ Overload Protection Device increases performance security.
- ◎ Easy and convenient operation is realized by remote control of grab cranes.
- ◎ Equipped with double speed mechanism, our grab cranes have a better working performance in terms of precision.
- ◎ Low voltage protection, phase sequence protection and emergency stop device are equipped to grab cranes.
- ◎ Warning indicators are installed: flashing lights and warning sound.

Garbage Grab Overhead Crane

Applications

The applications of grab overhead crane are mainly related to the handling of bulk materials. For example, a grab overhead crane can be used for:

- ◎ Loading and unloading coal, ore, sand, gravel, scrap metal and other scattered objects in power plants, freight yards, workshops, wharves and other industries.
- ◎ Grabbing the garbage in the waste incineration plants, stirring and mixing the garbage, and feeding the garbage to the incinerator.
- ◎ Weighing the bulk materials before or after lifting.

Features	Specifications
Capacity	Up to 20 tons
Lifting Height	6/9/12/15/18 meters
Span	3-35 meters
Power Supply	220-660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40°C



Single Girder Gantry Crane



MHO model European-spec single-girder gantry crane is developed by Yuantai Crane with the new NR/NRS model European-spec electric hoist as the lifting mechanism. It has the advantages of superior performance, safety and reliability, energy saving and high efficiency, low noise and environmental protection. It is suitable for lifting and handling objects in places such as workshops, warehouses and power stations where bridge cranes cannot be installed.

Applications

For indoor use, it can be used in workshops, warehouses, factories and various production lines for materials handling, and for outdoor use, it can be the main lifting equipment with special lifting tools for goods loading and unloading, stone transferer, material handling, steel yards, mines, concrete industries, ports and shipbuilding, etc.

Features	Specifications
Capacity	Up to 20 tons
Lifting Height	6/9/12/15/18 meters
Span	3-31.5 meters
Power Supply	220-660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40°C

Features & Benefits

- ◎ Design is based on FEM / DIN standards.
- ◎ Compact structure, small limit size.
- ◎ Frequency conversion speed regulation, stable operation.
- ◎ Perfect protection device, safe and reliable.
- ◎ Integrated transmission, energy saving and high efficiency.
- ◎ Silent drive, low noise and environmental protection.
- ◎ Overload limiter, height limiter, Stroke limiter, photoelectric limiter and other security measures are equipped according to different working conditions, crane black box with recorded analysis functions can be added based on the customer requirements.
- ◎ Customized crane can be produced.

Gantry Crane Structure



Single girder gantry crane (no cantilevers)



Single girder gantry crane with one cantilever

Structure Options



Single girder gantry crane with two cantilevers



Outdoor wind-resistant gantry crane



The structure options of gantry crane are suitable for both single girder gantry crane and double girder gantry crane.

Double Girder Gantry Crane



Features	Specifications
Capacity	Up to 300 tons
Lifting Height	6/9/12/15/18 meters
Span	3-35 meters
Power Supply	220-660V 50/60Hz 3Phase
Girder Design	Box type
Temperature	-20~+40°C

Features & Benefits

- Design is based on FEM / DIN standards.
- Compact structure, small limit size.
- Frequency conversion speed regulation, stable operation.
- Perfect protection device, safe and reliable.
- Integrated transmission, energy saving and high efficiency.
- Silent drive, low noise and environmental protection.
- Overload limiter, height limiter, Stroke limiter, photoelectric limiter and other security measures are equipped according to different working conditions, crane black box with recorded analysis functions can be added based on the customer requirements.
- Customized crane can be produced.

MGO model European-spec double girder gantry crane is developed by Yuantai Crane with the new NRT model European-spec electric crab hoist as the lifting mechanism. It has the advantages of superior performance, safety and reliability, energy saving and high efficiency, low noise and environmental protection. It is suitable for lifting and handling objects in places such as workshops, warehouses and power stations where bridge cranes cannot be installed.

Applications

Double girder gantry crane with larger lifting capacity, can do most of the work no matter indoor and outdoor. For indoor use, it can be used in workshops, warehouses, factories and various production lines for materials handling, and for outdoor use, it can be the main lifting equipment with special lifting tools for goods loading and unloading, stone transferer, material handling, steel yards, mines, concrete industries, ports and shipbuilding, etc.

Double Girder Gantry Crane



5-500 tons MG model traditional double girder gantry crane



5-300 tons MGO European-spec double girder gantry crane

Gantry Crane Types



5-450 tons truss girder double girder gantry crane



U-shaped double girder gantry crane



You can choose the appropriate gantry crane based on your working conditions, or tell us your specific working conditions and we will suggest which one is suitable for you.

Container Gantry Crane



Features	Specifications
Capacity	35-70 tons
Lifting Height	12.5/15.3/18.3 meters
Span	30/35/40 meters
Power Supply	AC380V 50Hz 3Phase
Container	20', 40', 45'

Applications

- ⦿ Loading and unloading containers from trains at rail terminals
- ⦿ Stacking containers at container yards or terminals
- ⦿ Moving containers between different modes of transport, such as ships, trucks or trains
- ⦿ Operating in semi-automatic or fully automatic modes with remote control or supervision

Rail-mounted container gantry crane is mainly used for container unloading, handling and stacking in container railway transfer yards and large container storage and transportation yards. The rail-mounted container gantry crane is composed of main beam, rigid and flexible supporting legs, traveling trolley, lifting mechanism, crane traveling mechanism, electrical system, operating cab, etc. Rail-mounted container gantry crane generally requires a large clearance in the width direction of the supporting legs, so the upper part of the supporting leg is opened into a U-shape to connect with the upper part of the supporting leg, and a trolley maintenance frame is erected. Rail-mounted container gantry cranes can load and unload 20', 40', 45' international standard containers.



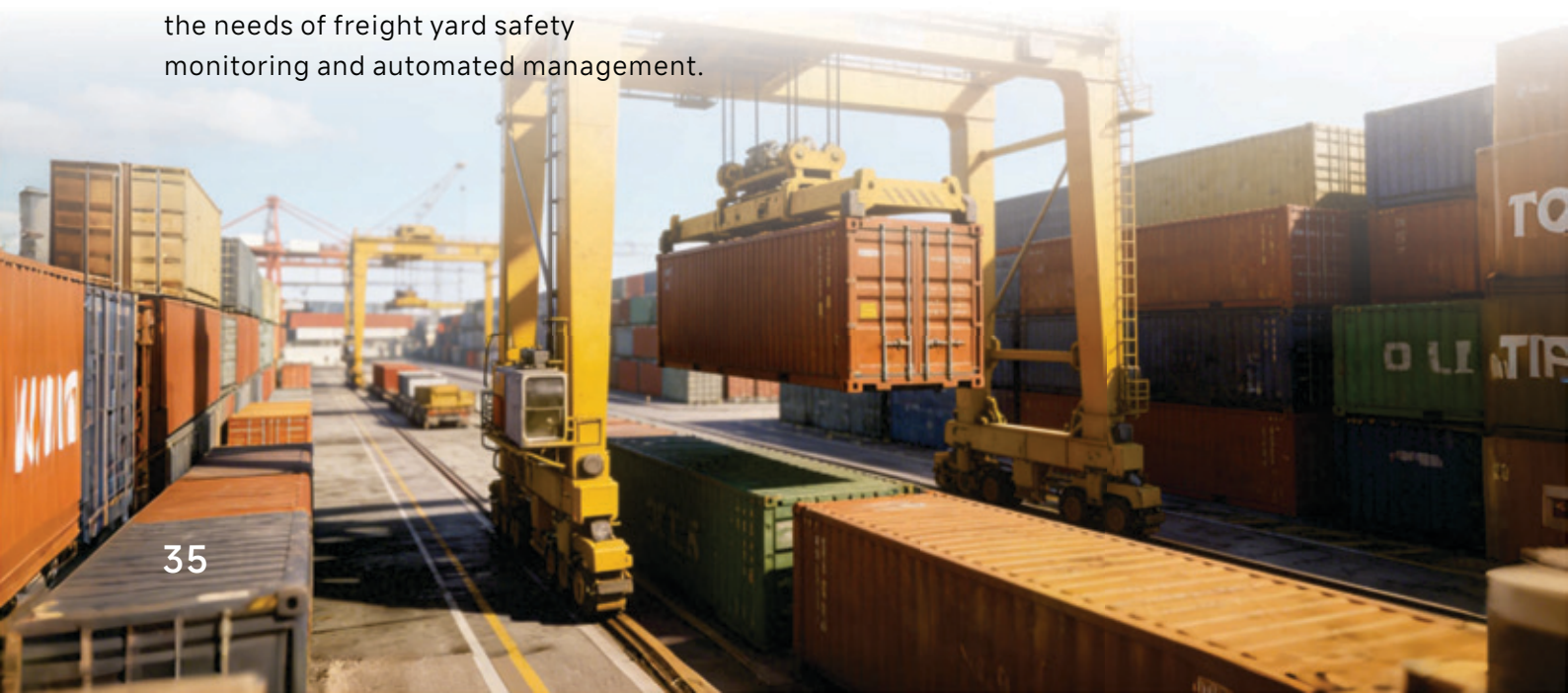
Rail-Mounted Container Gantry Crane

Features & Benefits

- ◎ The energy feedback device can effectively save energy.
- ◎ The eight-rope anti-turnover mechanism in the container spreader space effectively prevents the spreader from swinging and twisting.
- ◎ The intelligent fault detection system can better perform fault analysis and early warning of equipment.
- ◎ The separated electrical room and the traveling trolley reduce the running load of the trolley and reduce energy consumption.
- ◎ The advanced automatic correction system for cart walking reduces the problem of crane gnawing and increases the service life of the equipment.
- ◎ The intelligent safety monitoring and management system is better suited to the needs of freight yard safety monitoring and automated management.

Options of RMG Crane

- ◎ Rotating machinery trolley
- ◎ Remote control
- ◎ Remote access to crane management
- ◎ Interface with TOS
- ◎ Destination control
- ◎ Container stack profiling
- ◎ Container positioning system
- ◎ Automation | Semi automation



Rubber-Tired Container Gantry Crane



If you are looking for a versatile and efficient crane for your container terminal, you should consider investing in a Rubber-Tired Gantry (RTG) crane. A rubber-tired gantry crane (RTG) is a type of mobile crane that can lift and stack containers in a container terminal. It has a steel structure that supports a hoist, trolley, and spreader. It runs on rubber tires that allow it to move around the yard without rails.

Features	Specifications
Capacity	35-70 tons
Lifting Height	15.5/18.5 meters
Span	23. 47/26 meters
Power Supply	Diesel Generator Set / AC380V 50Hz 3Phase
Container	20', 40', 45'

Features & Benefits

- ◎ Novel structure and good usability
- ◎ Space-saving and efficient: RTG cranes can make full use of the storage yard, expanding the working space and improving the work efficiency. They can also reduce fuel consumption and emissions by using electric power or hybrid systems.
- ◎ Durable and reliable: RTG cranes have good sealing, anti-corrosion, and long service life. They can withstand harsh weather conditions and operate in any environment. They also have low running costs and require minimal maintenance.

Straddle Carrier



Container straddle carriers are specialized machines used for horizontal handling and stacking of containers at the terminal front and in the yard. They are widely used due to their flexibility, high efficiency, good stability and low wheel pressure.

A straddle carrier-based lifting system is the fastest and safest choice for medium-sized terminal freight stations; the straddle carrier itself can function as an independent system. Straddle carriers can meet all different load handling needs in container yards: bridge crane transportation and stacking of containers, as well as cargo loading and unloading of trucks and rail trucks.

Features	Specifications
Capacity	35-70 tons
Lifting Height	15.5/18.5 meters
Span	23. 47/26 meters
Power Supply	Diesel Generator Set AC380V 50Hz 3Phase
Container	20', 40', 45'

Features & Benefits

- ◎ **Versatility:** Versatile straddle carriers can handle a variety of loads, including containers, steel coils and bulky materials, making them ideal for a variety of industries.
- ◎ **Precision handling:** Advanced steering and stability control ensure accurate load positioning, even in narrow or crowded spaces.
- ◎ **High capacity:** These carriers are used to lift and transport heavy objects, optimizing material handling in industrial environments.
- ◎ **Efficiency:** Their design allows for fast load transfer, which reduces operating time and increases productivity.
- ◎ **Safety features:** Equipped with load monitoring and automation systems, they minimize risks during heavy lifting tasks, thereby improving operational safety.

Applications

Straddle carriers are used across a wide range of key industries.

- ◎ In the shipping sector, they are often seen at ports, moving and stacking containers with precision.
- ◎ In the manufacturing sector, they assist in the transport of raw materials or finished products, such as steel coils or machinery parts, improving workflow and reducing manual labor.
- ◎ In the construction industry, they handle oversized and heavy materials, such as prefabricated structures, concrete segments and other bulk cargo, ensuring they are efficiently transported and positioned on site.



Ship-building Gantry Crane



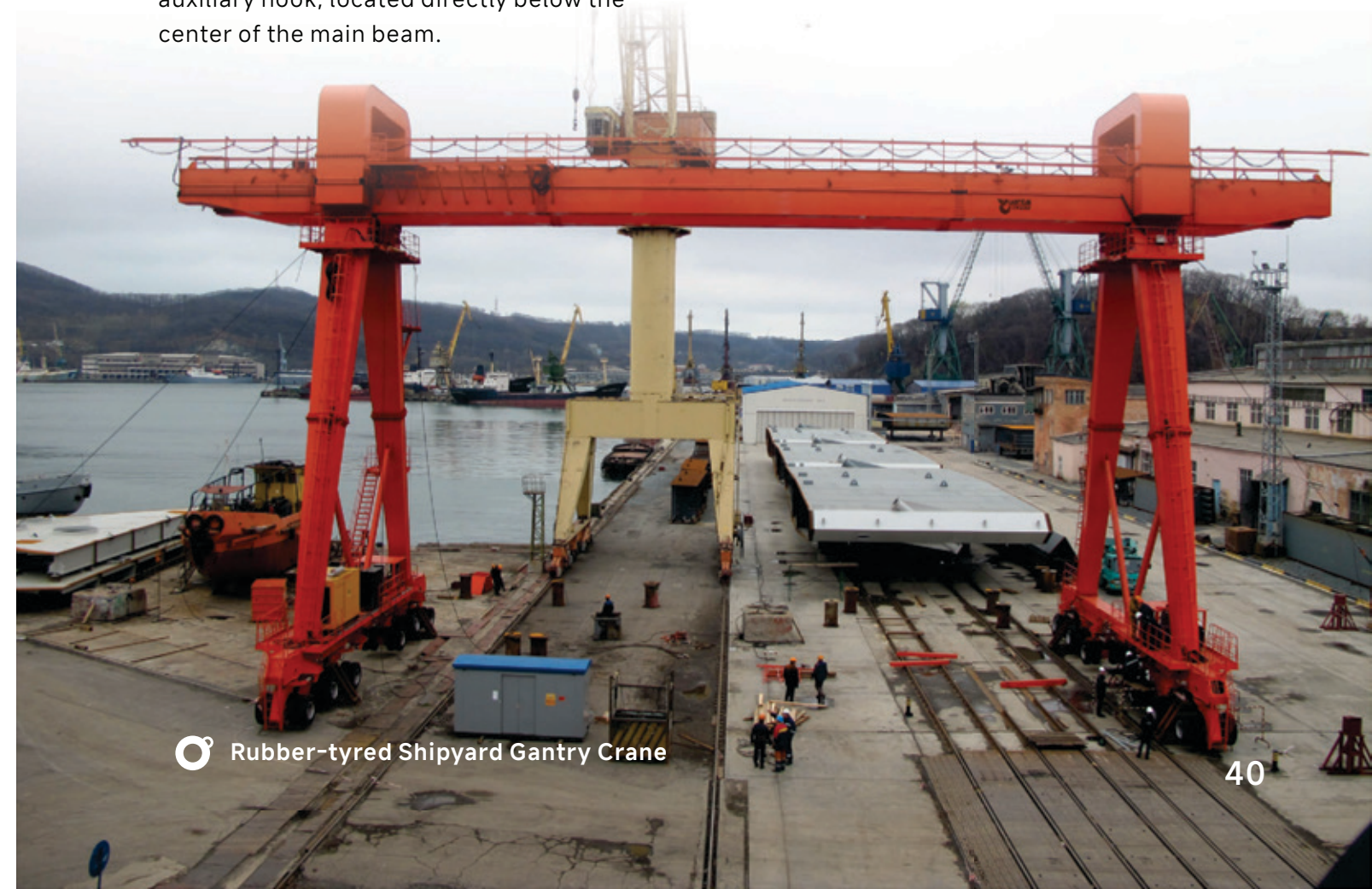
The shipbuilding gantry crane is a special lifting equipment that works on the dock, slipway or platform of the shipyard to carry out the lifting and turning over of the hull sections.

Compared with traditional gantry cranes, large shipyard gantry cranes have obvious advantages in the installation and transportation of hull sections. It spans the dock (berth) and can provide on-site assembly services on the dock coverage surface. It not only has the functions of lifting and horizontal transportation, but also can realize the aerial flipping of the hull and adjust the sections to the necessary position for ship welding.

Features	Specifications
Capacity	2*400+400 tons, Customized
Lifting Height	25-76 meters, customized
Span	50-185 meters, customized
Power Supply Mode	By cable drum
Power Supply	Designed according to crane requirements

Features & Benefits

- ◎ It has multiple functions such as single lifting, tandem lifting, aerial flipping, and horizontal micro-rotation in the air.
- ◎ The gantry has two forms of single beam and double beam for users to choose from. In order to improve the utilization rate of materials, the main beam adopts a variable cross-section design.
- ◎ The rigid legs of the gantry have two options: single column and double column.
- ◎ The upper trolley is a double main hook, located on both sides of the main beam, which can move 0~2 meters laterally independently or simultaneously.
- ◎ The lower trolley has a main hook and an auxiliary hook, located directly below the center of the main beam.
- ◎ The upper and lower trolleys can pass each other during operation.
- ◎ All lifting and running mechanisms use variable frequency speed regulation.
- ◎ On the side of the rigid leg, a cantilever crane is installed above the main beam for the maintenance of the upper and lower trolleys.
- ◎ For the convenience of operators and maintenance personnel, a lifting device is installed inside the rigid leg.
- ◎ To prevent damage from strong winds, reliable windproof devices such as rail clamps, ground anchors and anchor chains are installed.



◎ Rubber-tyred Shipyard Gantry Crane

Marine Travel Lift



The marine travel lift is a non-standard equipment designed and manufactured according to the different needs of customers. It is mainly used for launching and disembarking boats. It can easily realize the maintenance, repair or launching of these different boats at a very low cost.

The boat travel lift has the functions of straight travel, oblique travel, 90-degree in-situ turning and fixed-axis rotation. It can flexibly place the boats on the shore site according to requirements, and can quickly arrange the boats in sequence, and the distance between the placed boats can be very small.

Features	Specifications
Capacity	10-1000 tons, Customized
Inside Clear Width	customized
Clear Height	customized
Power Supply	Diesel Generator Set / AC380V 50Hz 3Phase

Features & Benefits

- ◎ Full protection system for safety design
- ◎ Qualified & reliable components
- ◎ High-efficient working ability
- ◎ Simple & minimal maintenance demand
- ◎ Easy operation
- ◎ Full functional test before delivery
- ◎ Free spares supplying
- ◎ Fast & easy site installation services
- ◎ Short delivery

Applications

Yacht Dock Area

- ◎ Yacht launching and landing
- ◎ Adjustment of yacht positions in docks

Boat Manufacturing and Repair Factory

- ◎ Transportation in the production process
- ◎ Repair and maintenance operations

Yacht Storage Facilities

- ◎ Indoor storage arrangements
- ◎ Outdoor site management



More Gantry Cranes



○ Rubber-Tired Gantry Crane



○ Rubber-Tired Single Girder Hoist Gantry Crane



○ Rubber-Tired Gantry Crane



○ Rubber-Tired Single Girder Hoist Gantry Crane

Service & Support

Design & Manufacture

Yuantai always focuses on the design and development of cranes and electric hoists to better provide customers with intelligent handling equipment and improve efficiency. We accept the design and manufacture of standard and tailor-made products.

Installation & Debugging

One of services of Yuantai Crane Machinery is that our engineers are overseas service available.

When received crane and hoist, if the customer needs to install, we can arrange for the engineer to provide installation and debugging services.

Safe operation & Training

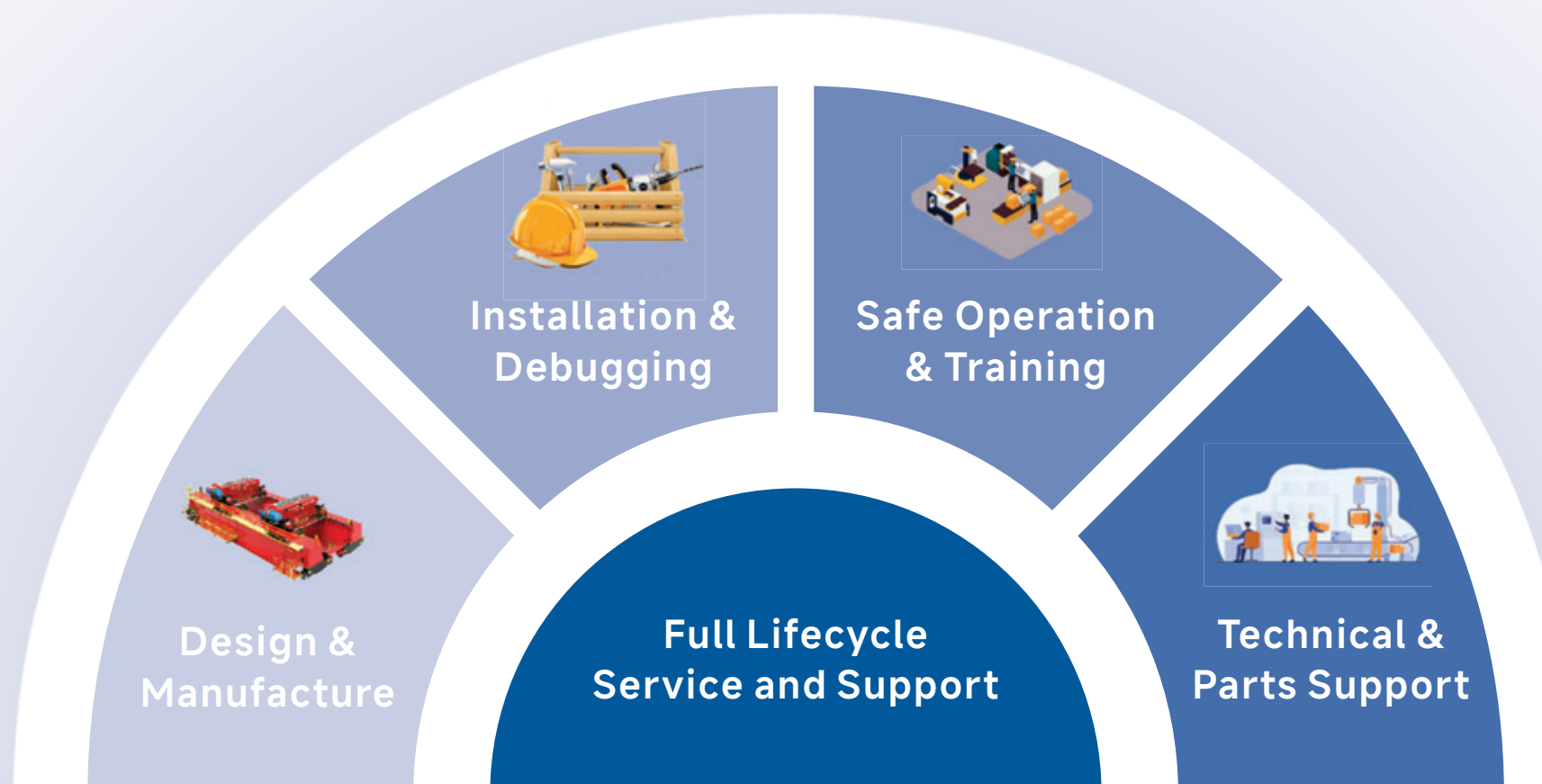
After commissioning, engineers will train operators on proper operations and precautions. Training service include:

- ◎ Hoist equipment safety operation procedures;
- ◎ Daily maintenance and repair;
- ◎ What are the common faults in training and solutions?
- ◎ How to replace the consumables (such as: rope guide, overload limit, limit, etc.)

Technical & Parts support

Our genuine spare parts reduce maintenance requirements and ensure that our products are reliable, long lasting and continuously usable. Genuine spare parts are perfect for our products and fully meet the needs of our customers.

Yuantai is always ready to provide technical support to you. Yuantai has a group of specialists, related to material handling equipment design, production, installation and maintenance, etc.





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This image shows a full page of white paper with horizontal blue lines. The lines are evenly spaced and extend across the width of the page. At the very bottom, there is a decorative light purple wave-like shape that spans the entire width of the page, partially obscuring the last few lines of the ruled area.