

WELCOME TO CONTACT US

# GUANHUI

CRANES LIFTING SOLUTION PROVIDER



## **GD GUANHUI GROUP CO., LIMITED**

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Guangqi Industry Zone, Duyang Town, Yunfu City,  
Guangdong Province, China







**Custom Cranes**  
**Lifting Solution Provider**

## COMPANY PROFILE



Foshan Guanhui Co., Ltd, founded in 1999, is a leading high-tech crane enterprise specializing in crane products and related services. With a reputation for quality, reliability, and customer satisfaction, Guanhui has become a trusted name in the crane industry. Whether you need a gantry crane for heavy lifting or a bridge crane for material handling, Guanhui has the expertise and experience to deliver the perfect crane solution for your business.

More than 30 years experience, Guanhui has secured numerous patents, establishing itself as a market leader in crane technology.

### Our Pursuit

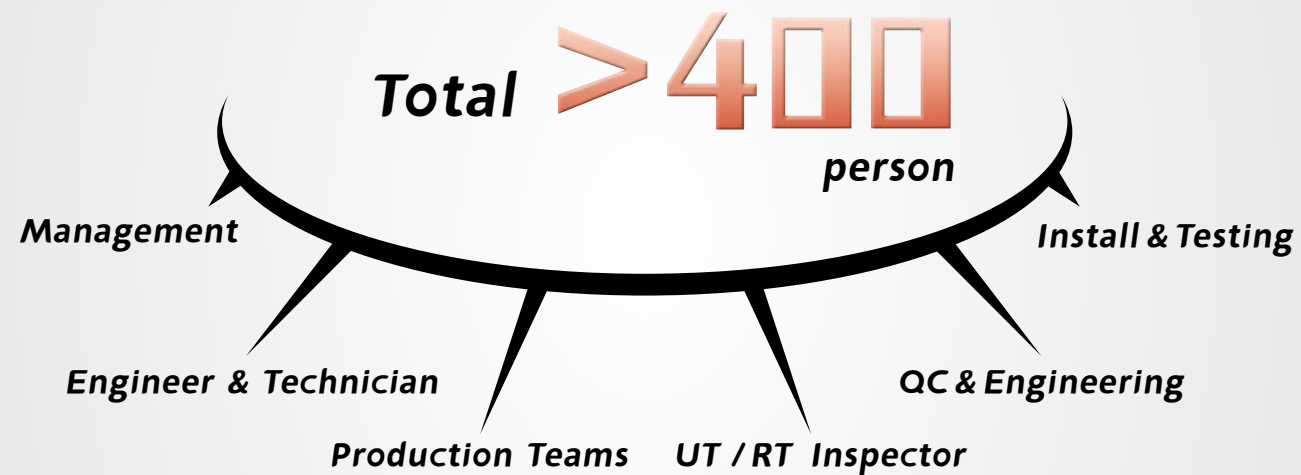


**Concentrate on producing a crane with a long lifespan service**

**Be recognized as the premium cranes supplier thanks to our values**



## Personnel Composition



## Our Honor

**More than 50 items invention patent certificate**



We manufacture cranes in strict accordance with standards, constantly refine the crane quality, ensuring that our products are guaranteed and recognized.



**Invention Patent No. : ZL 2017 1 0085935.8**

**Significant advantage for our product**

Due to using high quality materials and good manufacturing processes, our product has received a long lifespan crane patent certificate from the government after a long time continuous testing. This shows that the quality of our products has been acknowledged and verified.

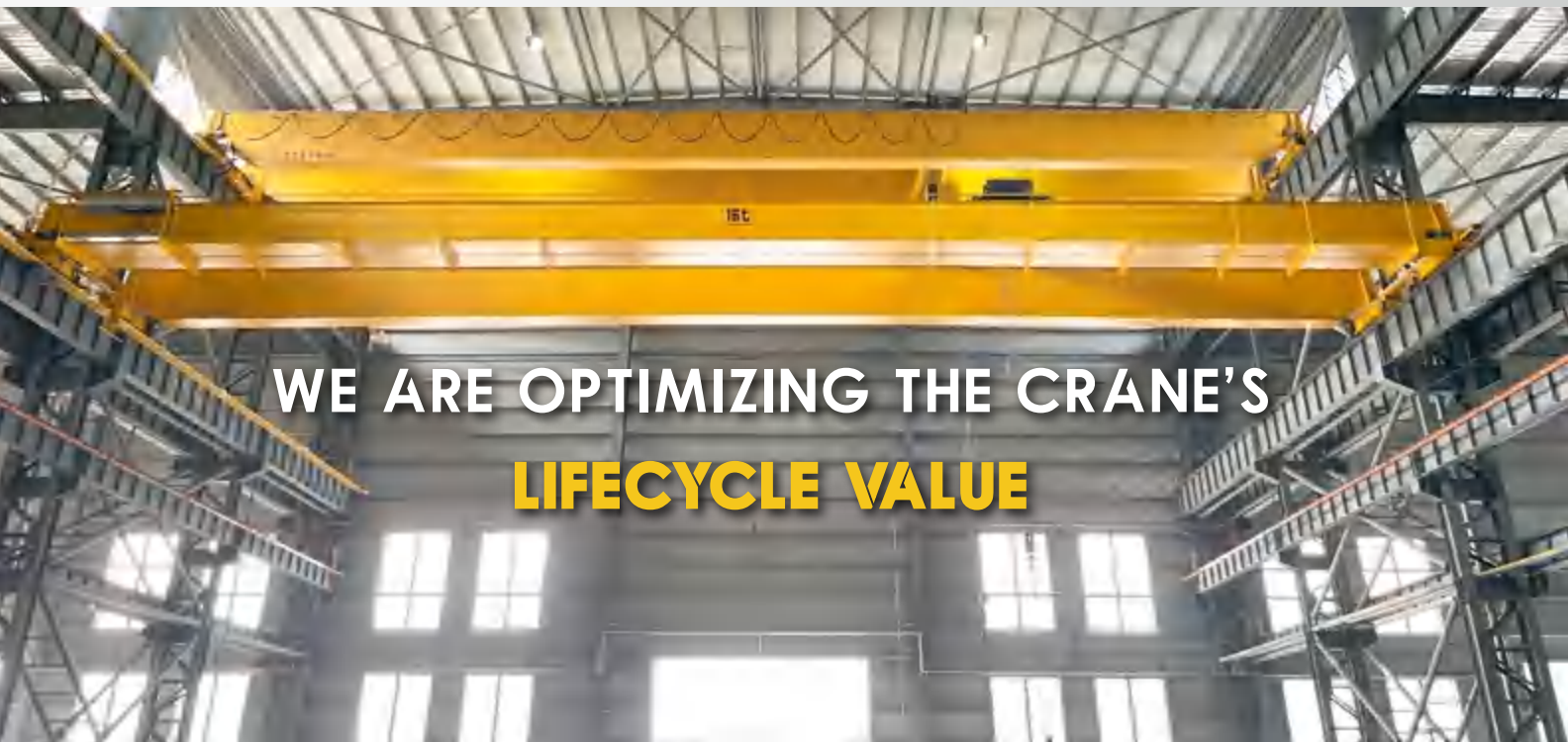


## CRANES & COMPONENTS

- ◆ High safety standards
- ◆ High quality standards
- ◆ Intelligent control
- ◆ Less downtime
- ◆ Extended reliability
- ◆ Process efficiency
- ◆ Vanguard technology
- ◆ Modern and compact design
- ◆ Minimum maintenance
- ◆ User-friendliness
- ◆ Long lifespan

<b><i>Our Value</i></b>	<b><i>1-2</i></b>
<b><i>We Committed To</i></b>	<b><i>3-10</i></b>
<b><i>Product Range</i></b>	<b><i>11-28</i></b>
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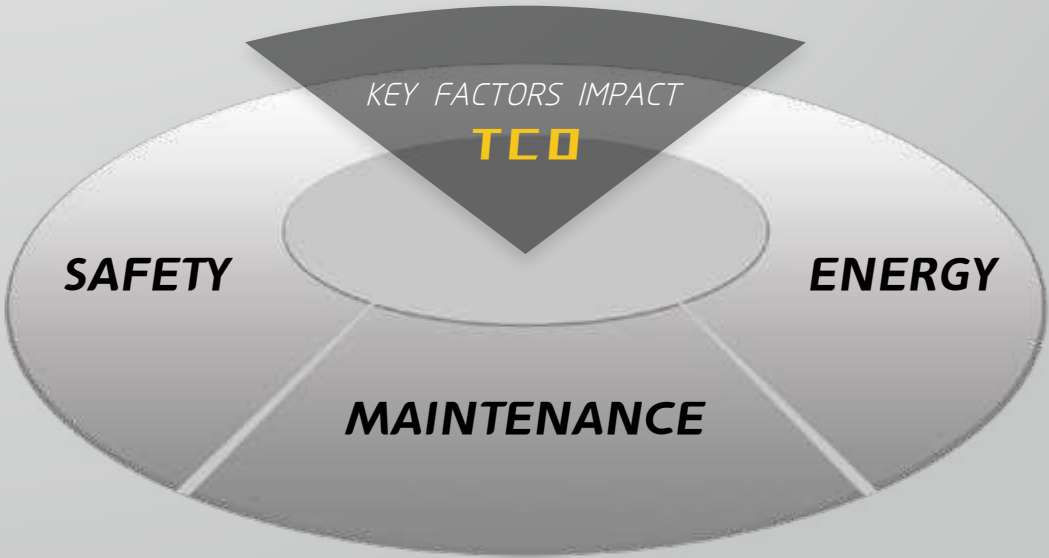




WE ARE OPTIMIZING THE CRANE'S  
LIFECYCLE VALUE

What about TCO

TCO refers to all costs related to equipment throughout its lifespan, beyond the initial purchase price. This includes operations, maintenance, energy consumption, repairs, spare parts, and production losses from unplanned downtime. The goal of reducing TCO is to optimize costs and provide higher value for users.



Key Factors Impact TCO

SAFETY



Safety is a critical factor directly impacts the control of TCO. If there are safety hazards or accidents involving equipment, it can result in significant costs that cannot be ignored, such as casualties, equipment damage, and work stoppages.

ENERGY



Energy consumption is a crucial factor that affects the overall Total Cost of Ownership (TCO), directly impacting energy expenses, equipment maintenance costs, and environmental impact.

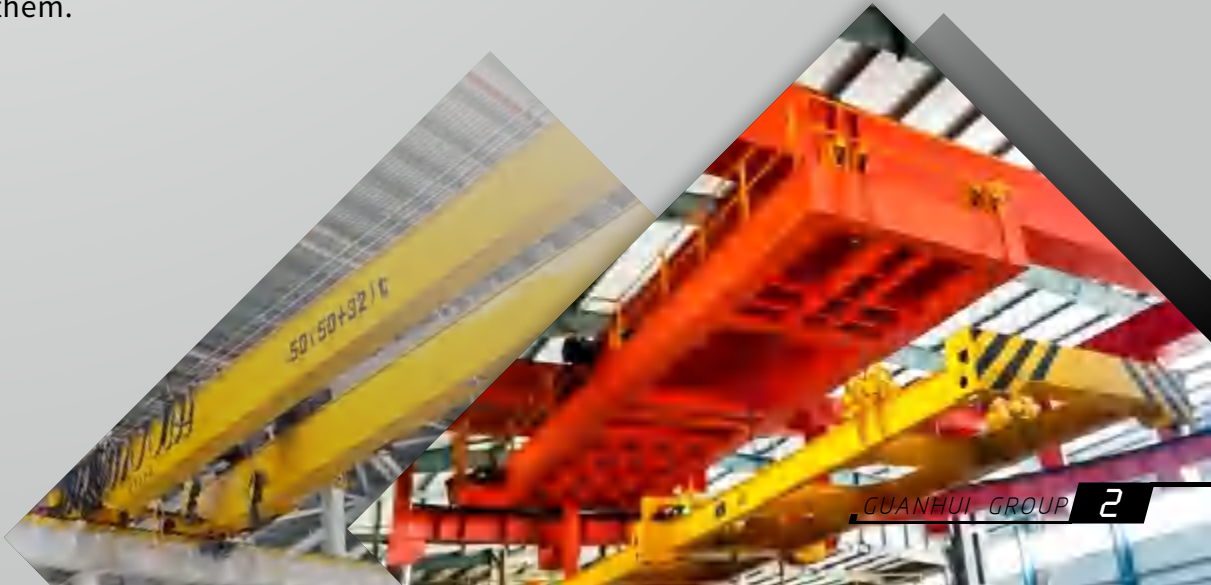
MAINTENANCE



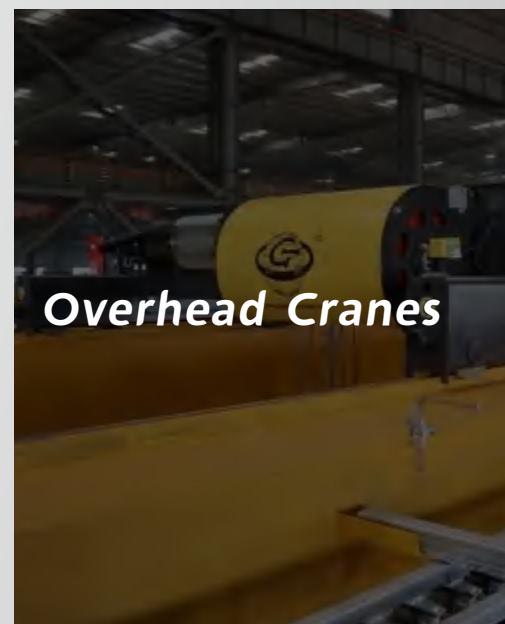
Maintenance and repairs are inevitable costs in the process of equipment usage. However, highly maintenance-free cranes can reduce maintenance costs and downtime, thus positively influencing TCO.

Guanhui Achieves Increased Crane Lifecycle Value

Guanhui Crane is dedicated to creating value for users and reducing the Total Cost of Ownership (TCO) of cranes. Through advanced safety control systems and durable design, equipped with low power and maintenance-free components, we provide users with safe, reliable, and efficient crane solutions that generate long-lasting value and competitive advantages for them.



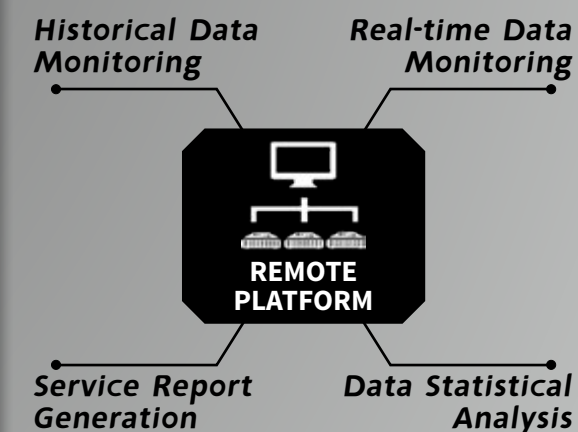




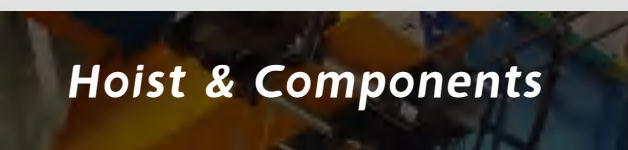
**Overhead Cranes**

## Intelligentization & Automation

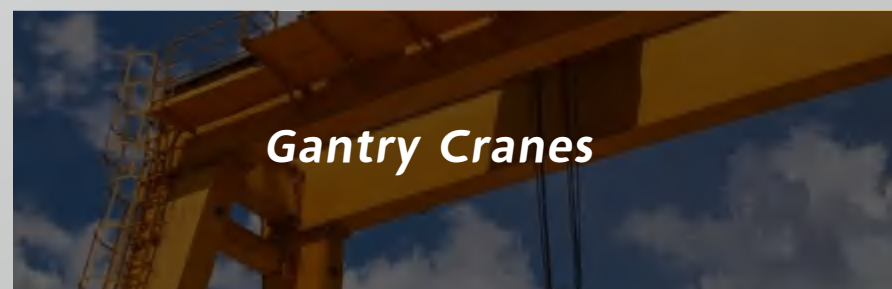
We are committed to driving the development of intelligence and automation in the field of lifting equipment. By incorporating advanced sensing technology, automated control systems, and artificial intelligence algorithms, we achieve a higher level of intelligence in crane operations, enhancing productivity and safety.



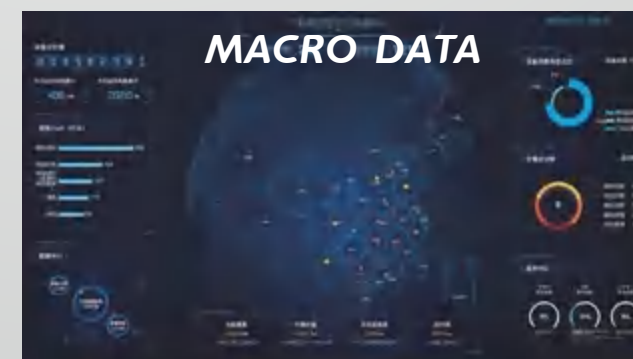
Remote monitoring gathers crane usage and operating data which allows for a thorough assessment of the equipment's condition, maintenance, and performance.



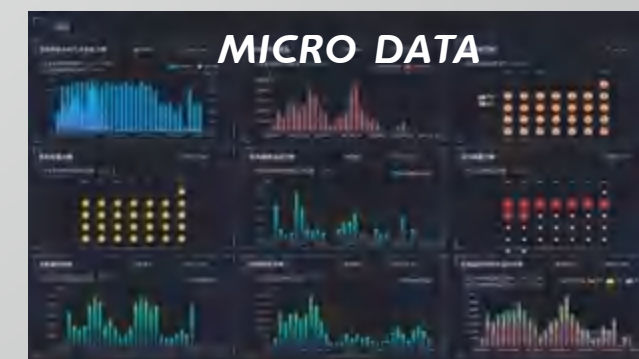
**Hoist & Components**



**Gantry Cranes**



Equipment quantity statistics and geographic distribution statistics, total operating time, total lifting capacity, total alarm situations, maintenance reminders, etc.



Real-time operation information of equipment, real-time performing data, fault and alarm situations, operating and performing data statistics, etc.



## Safety & Reliability



### Our safety monitoring for hoist

Safety Monitoring System (Routine maintenance traceability and warning) :

Our crane safety monitoring system is a small PLC, an electronic instrument used for data recording, safety, and state display of a crane, like an aircraft black box.



### My Crane APP (Option)

Professional app for monitoring crane operation and data

Site + cloud platform +4G network

Mobile terminal real-time monitoring crane operation status, alarm, historical data analysis

## 7+ Option features

The components of Guanhui crane totally have more than 17 standard and 7 option features for safety protection. The option features are as follows :

- Shock Prevention
- Brake-open Holding
- Brake Failure Protection
- Anti Sway
- Protected Area
- Split Layer Crane Collision Protection
- Smart Positioning(Synchronization)

## 17+ Std features

Undervoltage protection

Overcurrent protection

Ground protection

Short circuit protection

Phase sequence protection

Overheating protection

Overload protection

Tilt-lifting protection

Fall protection

Leakage protection

Anti-top collision

Anti-collision

Over-braking protection

Positive & Negative interlock

Anti-stall protection

Anti-rope losing

Soft start



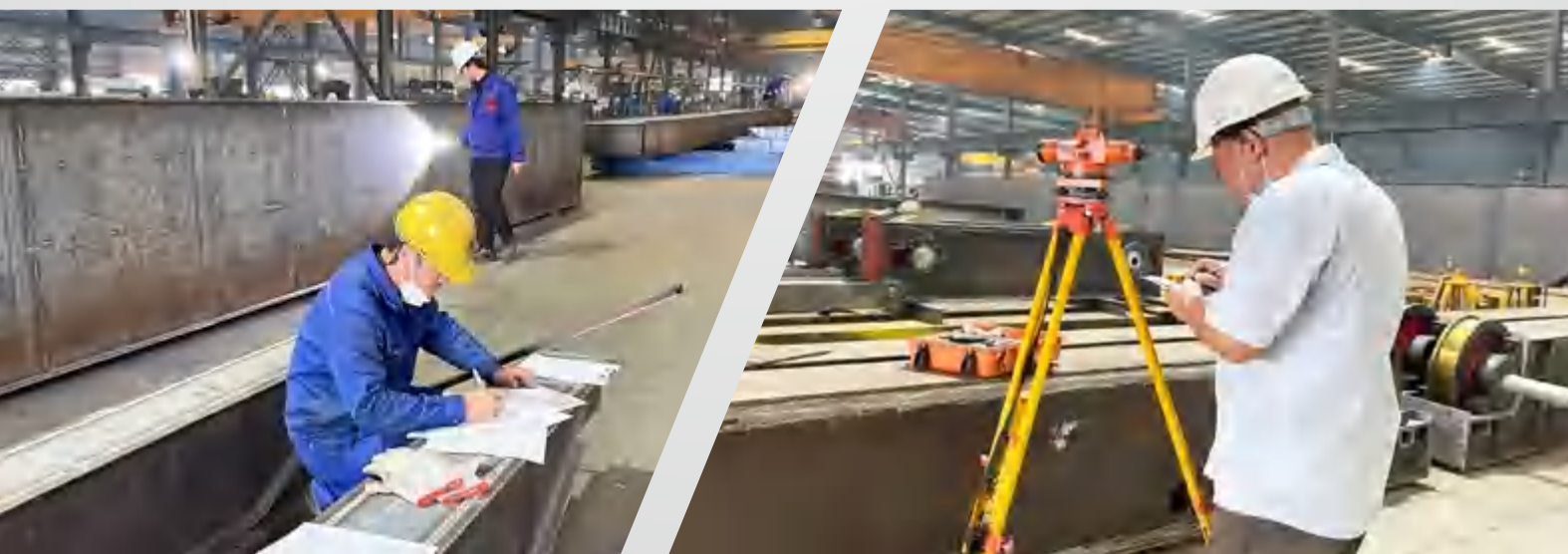
## Top-notch Quality

### Quality Control:

We have established a rigorous multi-level quality inspection process that covers every step from raw material procurement to final product delivery. At each stage of production, there are corresponding quality inspection procedures in place to ensure the quality and consistency of our products. This comprehensive quality inspection process serves as the cornerstone of our commitment to excellence in quality.



**Files record** is to serve as evidence of inspections and testing, visually documenting the execution of quality control activities. Simultaneously, they ensure traceability in quality control processes, facilitating the identification of problem sources, analysis of the extent of impact, and support for problem resolution and ongoing quality improvement efforts.

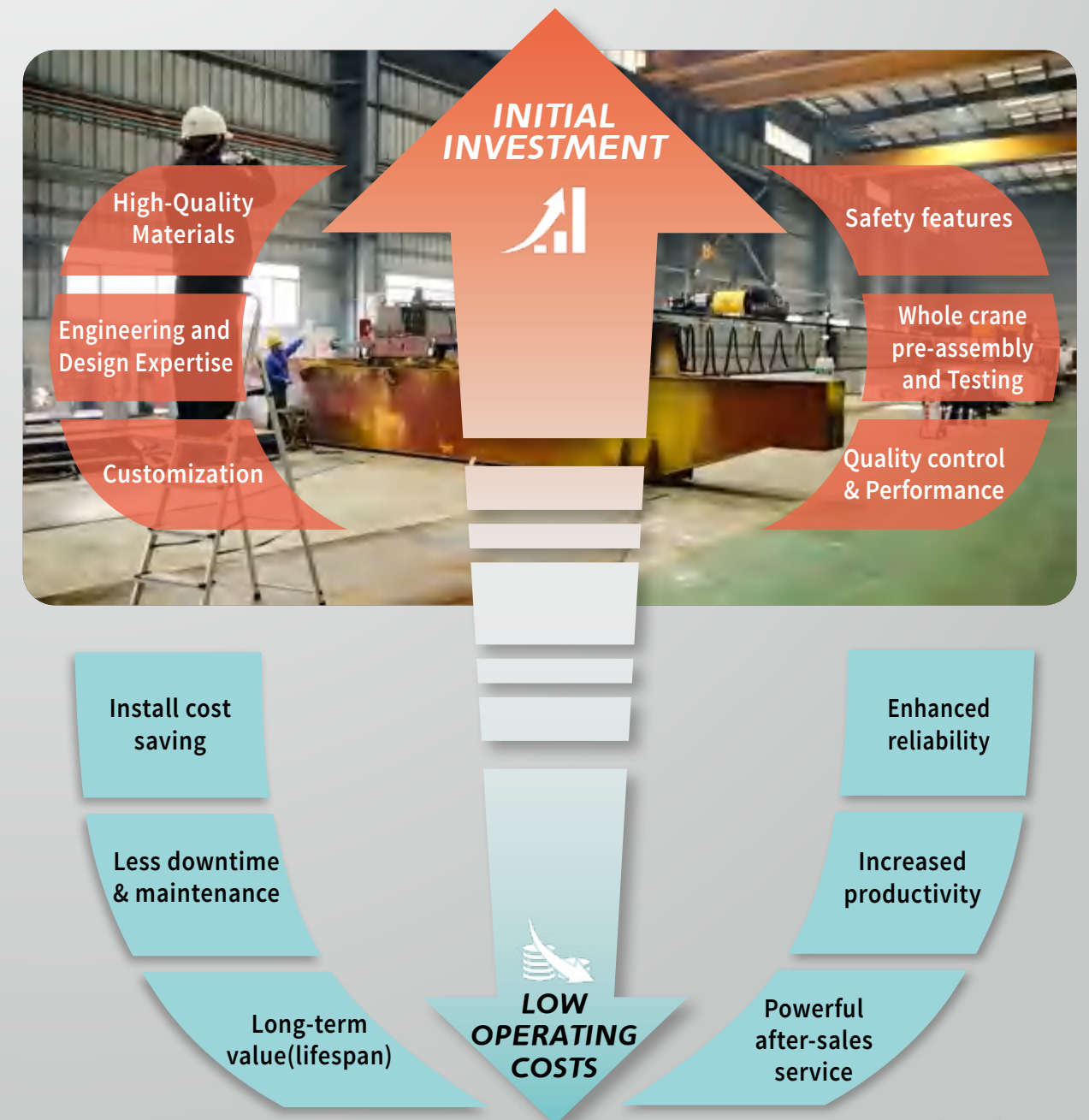


**Why Guanhui's crane products maybe relatively high in the initial investment cost?**

## GUANHUI MAXIMIZES YOUR COST SAVINGS!

The initial cost of purchasing a crane, including the crane itself, installation, commissioning, and accessories or add-ons, can be a significant expense. The type of crane, capacity, features, and customization options chosen will impact the upfront investment.

While the initial investment cost of Guanhui's crane products may be higher compared to some competitors, customers can be assured of high-quality, reliable, and safe crane solutions that are tailored to their specific needs and requirements.





## Tailor-made Solutions



### Integral Solutions

From the design stage, we offer made solutions to our customers being able to supply all the cranes involved in the typical installations of the sector. The solutions are integral according to the complete process needs demanding by our clients.



### Experience

Guanhui meets the demands of our customers' plants with a skilled team to deliver Guanhui global project experience that will fit the needs and requirements of all types of plants of any throughput and size.

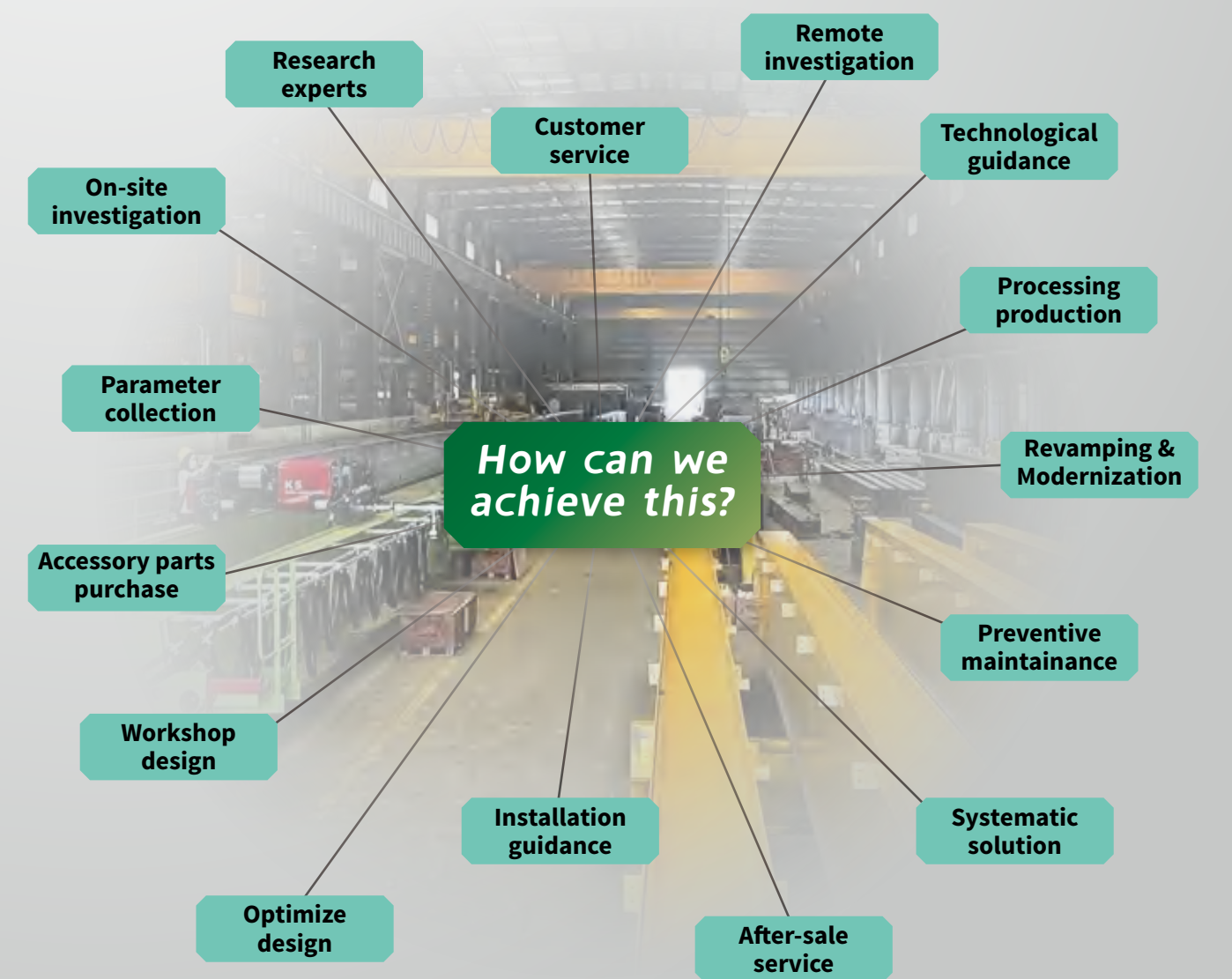


### Process Efficiency

Crane are key in plants nowadays to ensure an efficient handling and optimized output process, where strict compliance with environment rules are a must. Guanhui crane product and service ensures an optimal process from the arrival of the material to the handling and its separation. Guanhui provides tailor made solutions specially designed to meet our customers' processes and needs to enlarge the cranes long span with Guanhui complete turnkey solutions.

WE OFFER CRANE PRODUCTS AND SERVICES THAT ARE UNMATCHED IN TERMS OF QUALITY, SAFETY, AND RELIABILITY. ADDITIONALLY, WE STRIVE TO ENHANCE THE EFFICIENCY AND PERFORMANCE OF OUR CUSTOMERS' BUSINESSES.


When communicating with customers to understand their actual needs, the company can send professional technicians to the site or conduct remote inspections to collect and assess technical parameters. This helps the company better understand customer requirements and provide customers with customized lifting equipment solutions and a modern, comprehensive service system from various perspectives.











The main advantage of intelligent cranes over traditional cranes lies in their advanced features and capabilities. Here are some key advantages of intelligent cranes:


 **Automation:**  
Intelligent cranes can be programmed to perform repetitive tasks autonomously, reducing the need for manual intervention.

 **Data Analysis and Optimization:**  
Intelligent cranes have sensors and IoT integration that enable real-time data collection and analysis.

 **Enhanced Safety Features:**  
Intelligent cranes often incorporate advanced safety features like collision detection systems, emergency stop buttons, and fail-safe mechanisms.

 **Remote Control:**  
Intelligent cranes often offer remote control capabilities, allowing operators to control the crane from a safe distance.

 **Machine Learning:**  
Intelligent cranes can learn from past operations and adjust their performance accordingly.

 **Productivity and Efficiency:**  
With automation, remote control capabilities, and optimized operations through data analysis and machine learning, intelligent cranes offer higher productivity and improved efficiency compared to traditional cranes.

Guanhui have good experience in intelligent crane design & manufacture, has a state-of-the-art solution that not only meets the customer's lifting needs but also exceeds their expectations in terms of performance, safety, and productivity.

**Intelligent crane main application for following industries:**

- |                             |                        |
|-----------------------------|------------------------|
| 1 Oil and Gas               | 5 Construction         |
| 2 Ports and Shipping        | 6 Manufacturing        |
| 3 Energy and Utilities      | 7 Mining and Quarrying |
| 4 Warehousing and Logistics |                        |

These are just a few examples of industries that can be used intelligent cranes. In general, any industry that requires heavy lifting, material handling, and improved efficiency can explore the advantages of employing intelligent crane technology.





## KS Single Girder Overhead Crane

Capacity up to 20 Ton

### Feature of Crane

- Maintenance free
- C-type structure, DIN hook, class T
- 2160N/mm<sup>2</sup> heavy duty galvanized wire rope
- Rotation lifting limit switch, 4 steps adjustable
- Overheating, overloading protection, stepless control trolley
- Low headroom design, rotation mounting design for lifting motor
- Hardened gear, smart driving, higher efficiency, reliable rope guider
- Heavy duty motor, 60%ED rating, IP55/H insulation, electromagnetic disk brake







## KD Double Girder Overhead Crane

Capacity up to 100 Ton



### Feature of Crane

- Minimized crane thickness, reasonable design
- Smart driving, higher efficiency
- Flexible lifting beam
- Hardened gear
- IP55/H insulation
- DIN hook, class T
- Reliable rope guider
- 2160N/mm<sup>2</sup> heavy duty galvanized wire rope
- Rotation lifting limit switch, 4 steps adjustable
- Safety monitoring sys, with LCD
- Anti-drop protection
- Heavy duty motor, 60%ED rating
- Overheating, overloading protection
- Electromagnetic disk brake
- Stepless control trolley
- Anti-wearing, long life
- Optimized rope clamping, more safety
- Maintenance free

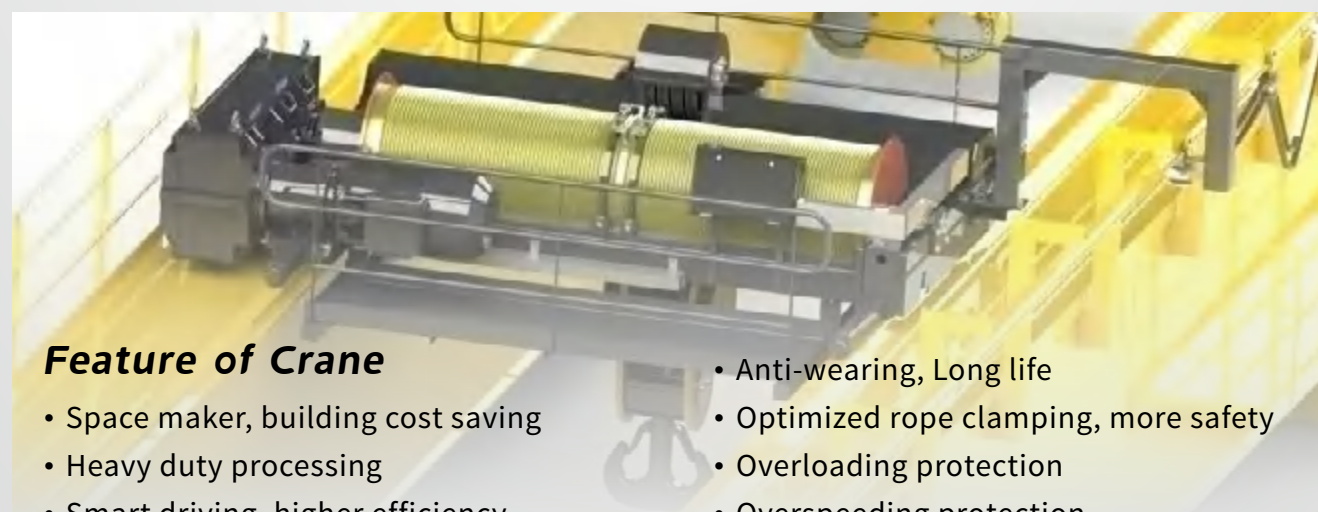






## QD Double Girder Overhead Crane

Capacity up to 500 Ton



### Feature of Crane

- Space maker, building cost saving
- Heavy duty processing
- Smart driving, higher efficiency
- Heavy duty motor, stepless traveling
- IP55 / H insulation, 60%ED rating
- Overheating protection
- Manual release, electromagnetic disk brake
- High grade steel wire rope, rope roller
- Rotation limit switch
- Grease nipples in one group
- Anti-wearing, Long life
- Optimized rope clamping, more safety
- Overloading protection
- Overspeeding protection
- Droplless latch
- Smaller gearbox with planetary gear ,light weight can be reduced 50%
- Side supporting, flexible transmission and low internal stress
- Hardened gear, silent running
- Full life design ,maintenance free







## KGD Double Girder Gantry Crane

Capacity up to 500 Ton

### Feature of Crane

- Safety monitoring sys, anti-drop protection.
- Tailor-made solutions arrive at any need.
- Cantilever as option.
- Maintenance free.
- Gantry crane suitable for locations such as goods yard and exposed yard, etc when setting rail on the ground.
- Light self-weight and low wheel pressure so as to reduce budget and investment of rail foundation of large vehicles.
- Smart driving, higher efficiency, hardened gear, heavy duty Motor IP55 /H insulation, 60%ED rating, stepless control trolley.
- Safety monitoring sys, anti-drop protection.
- Optimized design ensuring minimum vertical and horizontal wheel loads.
- Rotation lifting limit switch, 4 steps adjustable, DIN hook, class T.
- Gantry crane included in outdoor/indoor application.
- Outdoor use included: rainproof, windproof, outdoor painting.





## KGS Single Girder Gantry Crane

Capacity up to 20 Ton



### Feature of Crane

Gantry cranes are suitable for areas like goods yards, open yards, and similar environments where rail can be set on the ground. They can be classified into single girder, double girder and half gantry crane, etc. Guanhui gantry cranes have characteristics such as specific structure, light self-weight and low wheel pressure so as to reduce budget and investment of rail foundation.

- Hardened gear, smart driving, higher efficiency, reliable rope guider
- Heavy duty motor, 60%ED rating, IP55/H insulation, electromagnetic disk brake
- 2160N/mm<sup>2</sup> heavy duty galvanized wire rope
- Overheating, overloading protection, stepless control trolley
- Direct-transmission designing, efficiency 30% higher



## BM Semi-Gantry Crane

Capacity up to 50 Ton

### Feature of Crane

- This type crane is suitable for outdoor or indoor application
- Independent working places at both sides of the same bay
- Optimized design ensuring minimum vertical and horizontal wheel loads
- Good solution for restricted space applications





## KBK Modular Light Crane

Capacity up to 5 Ton



### Feature of Crane

Flexibility and optimised performance, through modular design, this is one high-performance handling system with a high load-bearing capacity and low running costs.

- Modular structure for convenient and flexible installation
- Can also be used in building structures capable of bearing only low static loads
- Low-vibration load movement; exact flow of materials; simple, ergonomic handling even without motorisation
- Provide with single rail for curved surface, switch over point, turnaround, single /double girders
- Capacity: 0.25—5 T

## BZD Slewing Jib Crane

Capacity up to 10 Ton



### Feature of Crane

- Installation site altitude does not surpass 2000M. When the altitude surpass 1000M, the motor's capability must be checked.
- Working ambient temperature: -20 ~ +45 C°
- The flammable, explosive and corrosive gas must not be existed in the crane's working ambient.
- It's not suitable for lifting blazing & melting material, toxicant and flammable & explosive things.
- Used in workshop, warehouse, assembly, depot, etc.
- Capacity: 0.25—10 T
- Lifting height: 2—10M
- Effectual semidiameter: 2—10M
- Velocity of whirl: 0.5—1M/MIN
- Capability of whirl: random angle (0—360°)



## Metallurgical Overhead Crane

Capacity up to 100 Ton

### Feature of Crane

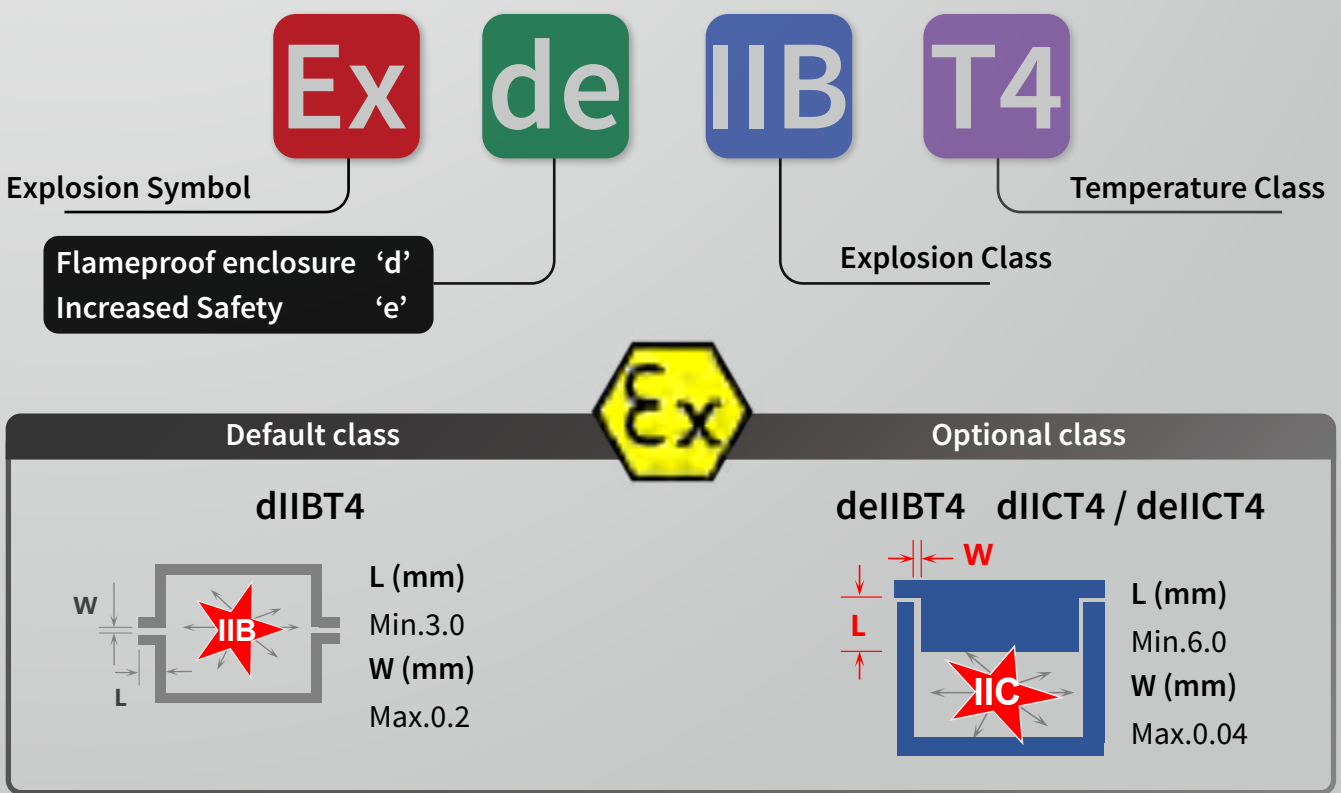
- Smart driving, higher efficiency, stepless control trolley
- Hardened gear, dual brake, electromagnetic disk brake
- 2-rope reeving ,heavy duty steel wire rope, rolled rope sheave
- IP55 control cubicle
- Flexible lifting beam, trolley and gearmotor anti-drop protect
- Hoist heat cover, hook heat cover
- Heavy duty motor, IP55 / H insulation, 60%ED rating
- Over heating protection
- Overloading protection
- Over-speed protection
- Power-off and over-speed holding brake
- Rotating limit switch + hook approaching limit switch

### Metallurgical Crane Application in Steel Mill:

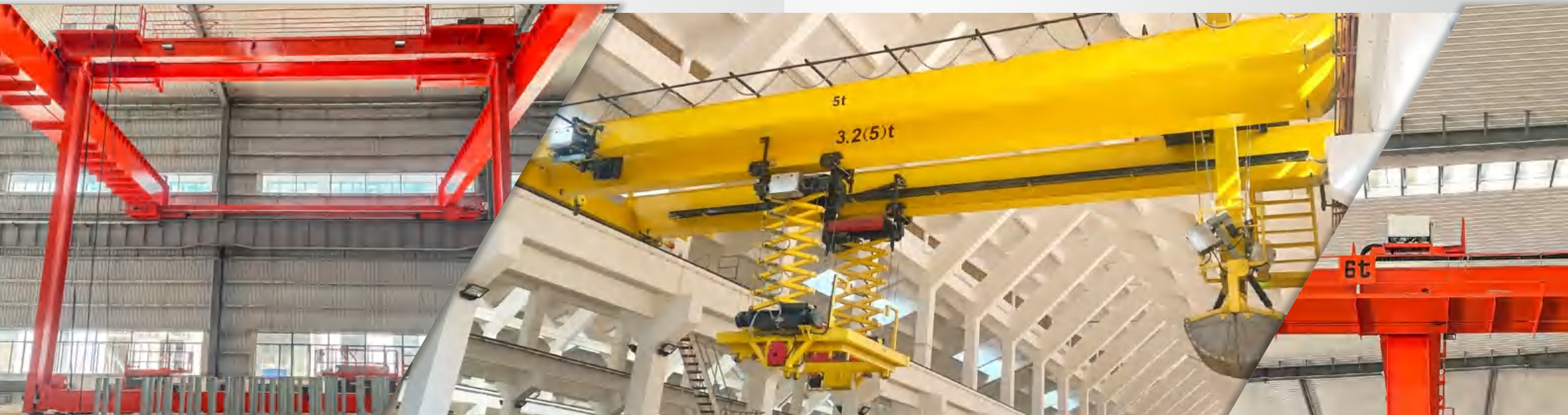
- Foundry Crane
- Ladle Crane
- Slab Crane
- Ingot Crane
- Coil Crane
- Forging Crane
- Heat-treatment Crane
- Electrolytic Crane
- Grab Crane

## Ex-proof Crane

In all these applications, Ex-proof cranes are designed to prevent sparks, electric arcs, or hot surfaces from igniting the flammable substances present in the environment. At Guanhui ,we are built with explosion-proof enclosures, sealed electrical components, and special measures to prevent the entry of hazardous materials into the crane's operating systems.







## CUSTOM CRANE

Guanhui's mission is to provide lifting equipment that enhances customers' businesses, with quality as its core focus. Our custom cranes are tailored to meet the specific requirements of your production process. We recommend the best products based on your application, preferences, and environmental constraints. Your crane can be adapted to various uses throughout its life cycle, guaranteeing increased efficiency, availability, and safety during operation. Your production processes will be faster and more efficient, and your people and equipment will be safer.

**The main advantage of a custom crane is the ability to provide a customized solution that optimizes performance, efficiency, safety, space utilization, and long-term cost-effectiveness for a particular application or industry.**

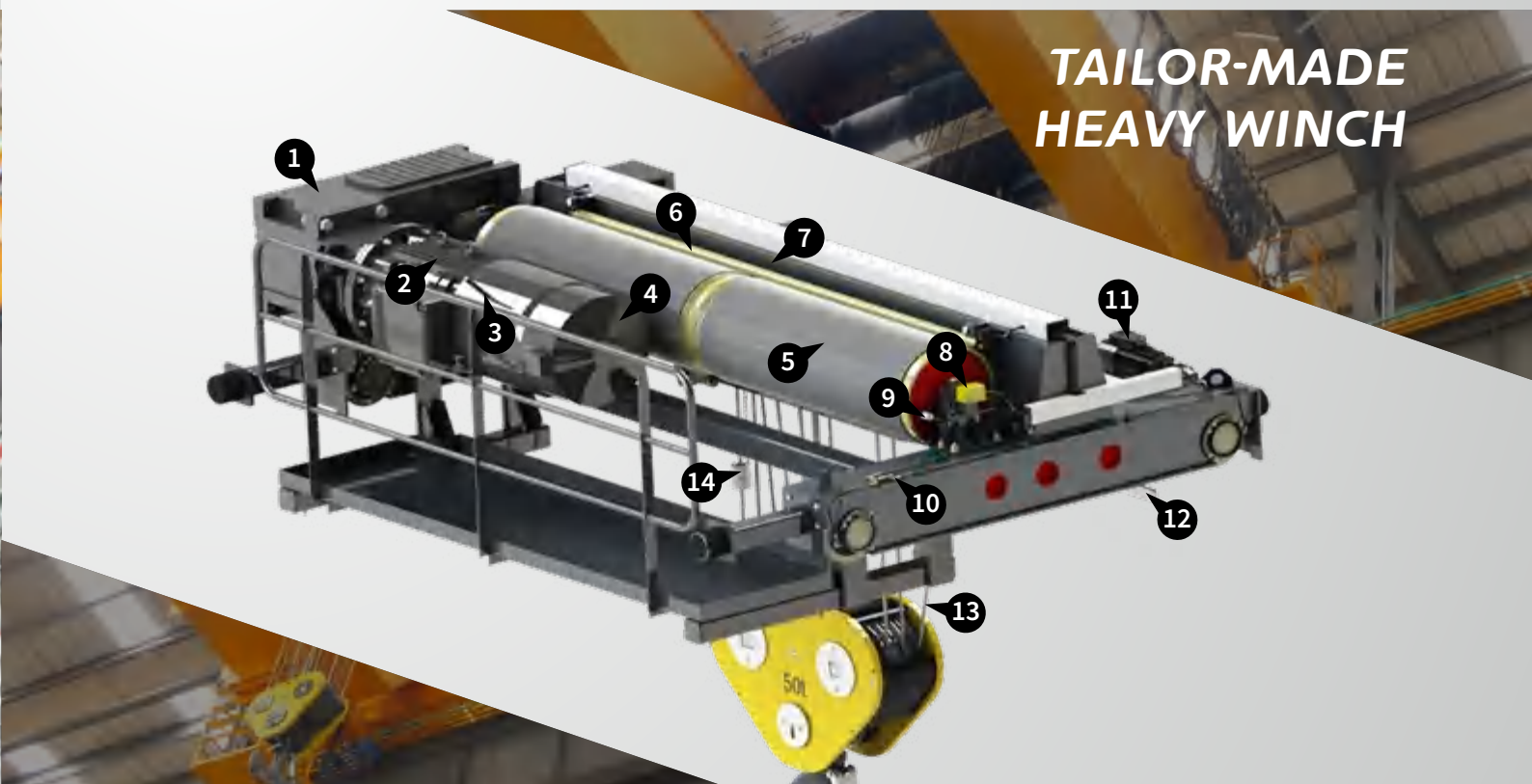
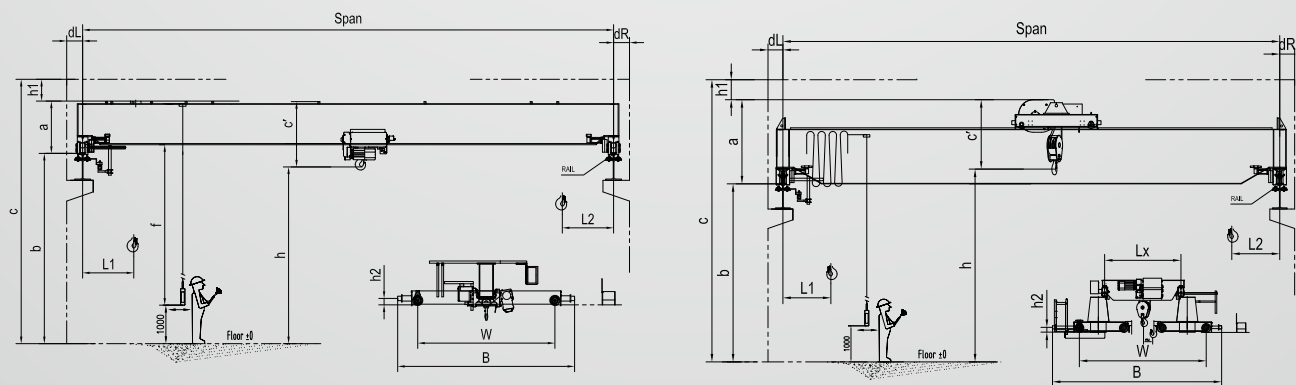






## Feature of Hoist

- Low headroom, smart driving, higher efficiency, stepless control trolley, hardened gear
- Heavy duty motor, IP55 / H insulation, 60%ED rating, overheating, overloading protection
- Electromagnetic disk brake, super drum, longer rope lifetime, DIN 34CrMo4 hook ,class T, reliable rope guider
- Rotation lifting limit switch, 4 steps adjustable
- Safety monitoring system, with LCD, trolley and gearmotor anti-drop protect
- 2160N/mm<sup>2</sup> heavy duty galvanized wire rope
- Maintenance free



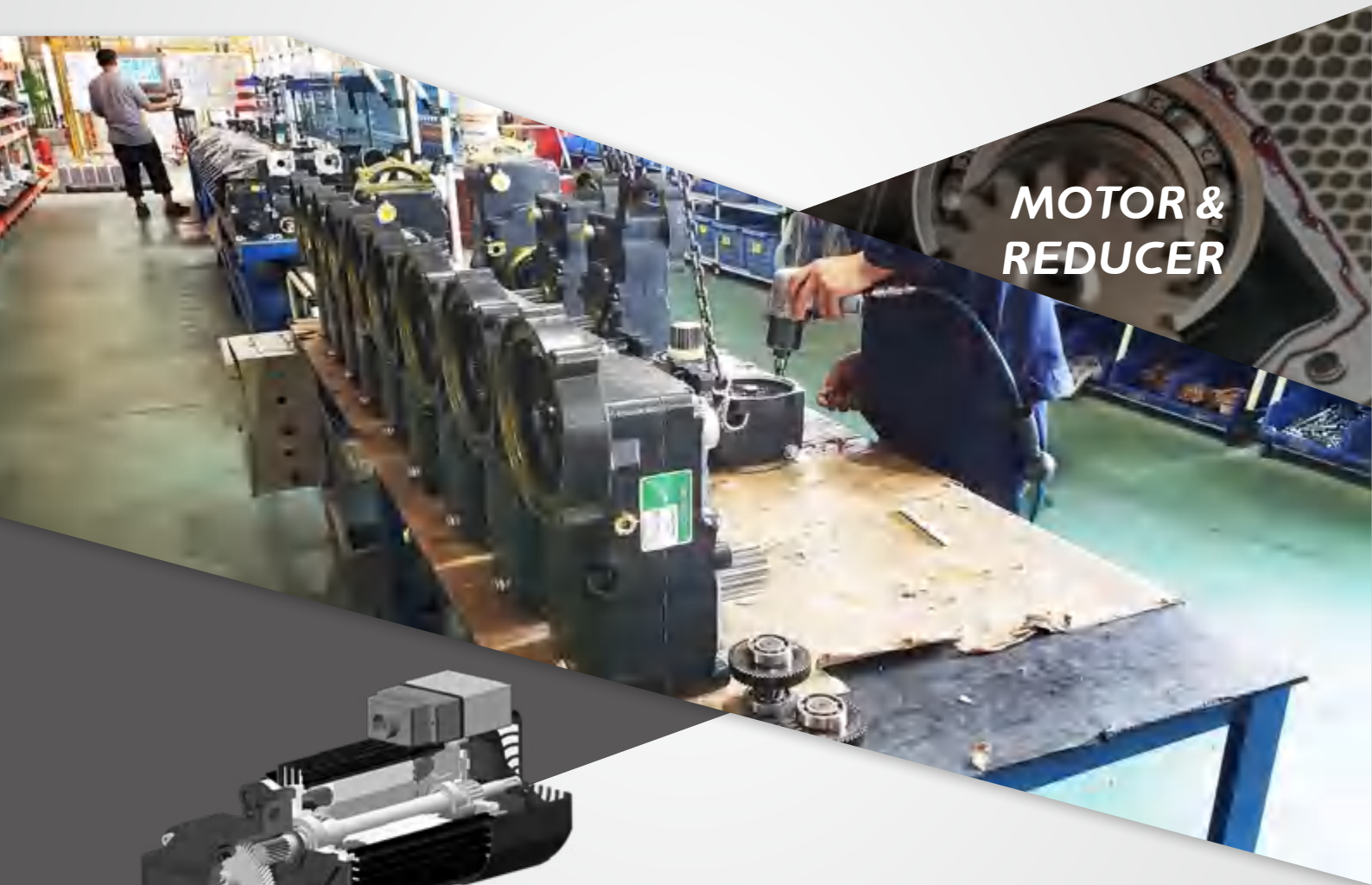
## TAILOR-MADE HEAVY WINCH

## Feature of Winch

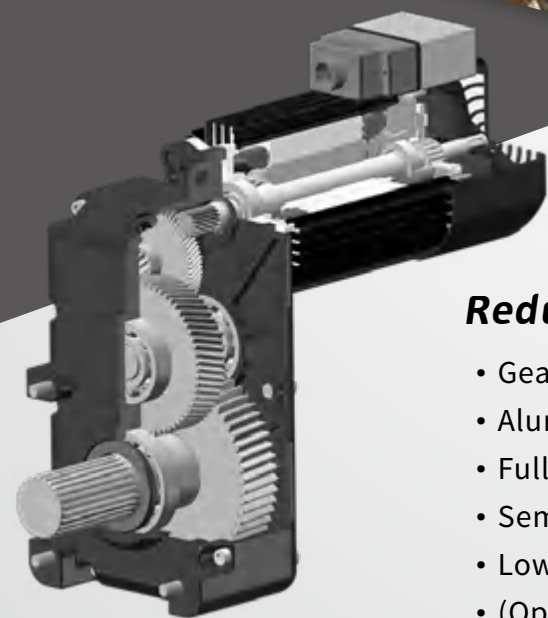
- Maintenance free
- Centralized lubrication
- Flexible trolley with balance pin
- Space maker, building cost saving
- High grade steel wire rope, true vertical lifting
- Rotation lifting limit switch, 4 steps adjustable
- Stepless control trolley, smooth travelling, smart driving ,higher efficiency
- Three-supporting reliability frame, dustproof electromagnetic disk brake , reliable
- Hardened gear ,light weight ,heavy dutymotor, 60%ED rating , IP55 / H insulation

- 1 Hardened Gear
- 2 Heavy Duty Motor ( IP55 )
- 3 Manual Release
- 4 Electromagnetic Disk Brake
- 5 High Grade Steel Wire Rope
- 6 Rope Roller
- 7 Overloading Protection
- 8 Rotation Limit Switch
- 9 Overspeeding Protection
- 10 Grease Nipples in One Group
- 11 Stepless Traversing
- 12 Dropless Latch
- 13 True Vertical Lift
- 14 Hook Approached Limiter
- 15 DIN Hook





**MOTOR & REDUCER**



**Reducer**

- Gear raw material is chromium molybdenum nickel alloy
- Aluminum alloy die casting shell, light weight
- Fully hard gear HRC60 with longer service life
- Semi-fluid lubrication, fully filled with oil in factory
- Low noise ,no leakage and maintenance free
- (Optional) Low temperature heating

**Gearmotor**

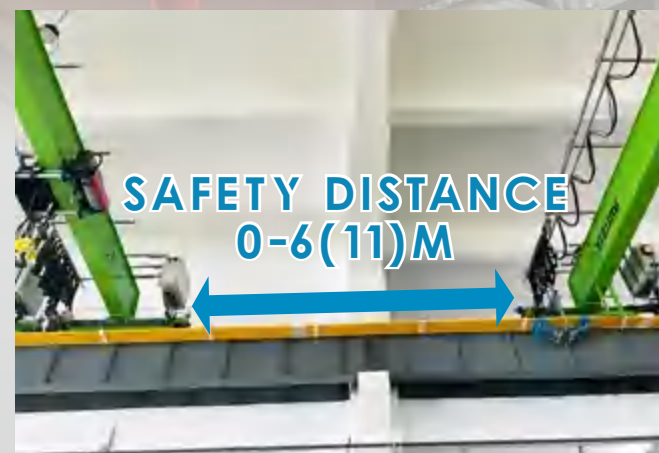
**Compact design : Integrated motor + brake + gearbox**

- Stepless travelling
- Squirrel-cage, synchronous
- Max. speed 4800rpm
- Heavy duty 60% ED rating
- IP55 / H insulation
- Electromagnetic disk brake
- Totally enclosed aluminum housing
- Air cooling type, fan blade optimization design, silent running
- Fully sealed, conforming to IEC standard
- Adopt vacuum lacquer process to ensure insulation quality
- No wearing part, full life design, maintenance free

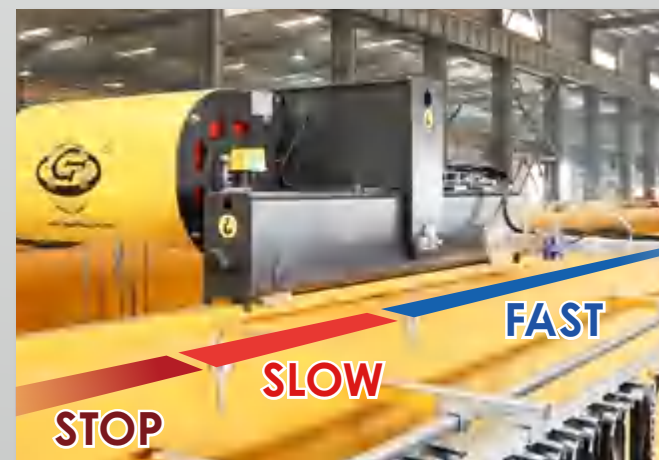


**ANTI-COLLISION SYSTEM**

**Proximity Limit Switch**



**Hoist Cross Limit Switch**



ONE  
**LOWER ACCIDENT RISK**

TWO  
**REDUCE INJURY AND COST**

THREE  
**PROTECT FACILITY AND WORKERS**

FOUR  
**PROVIDE SAFER WORKPLACE**



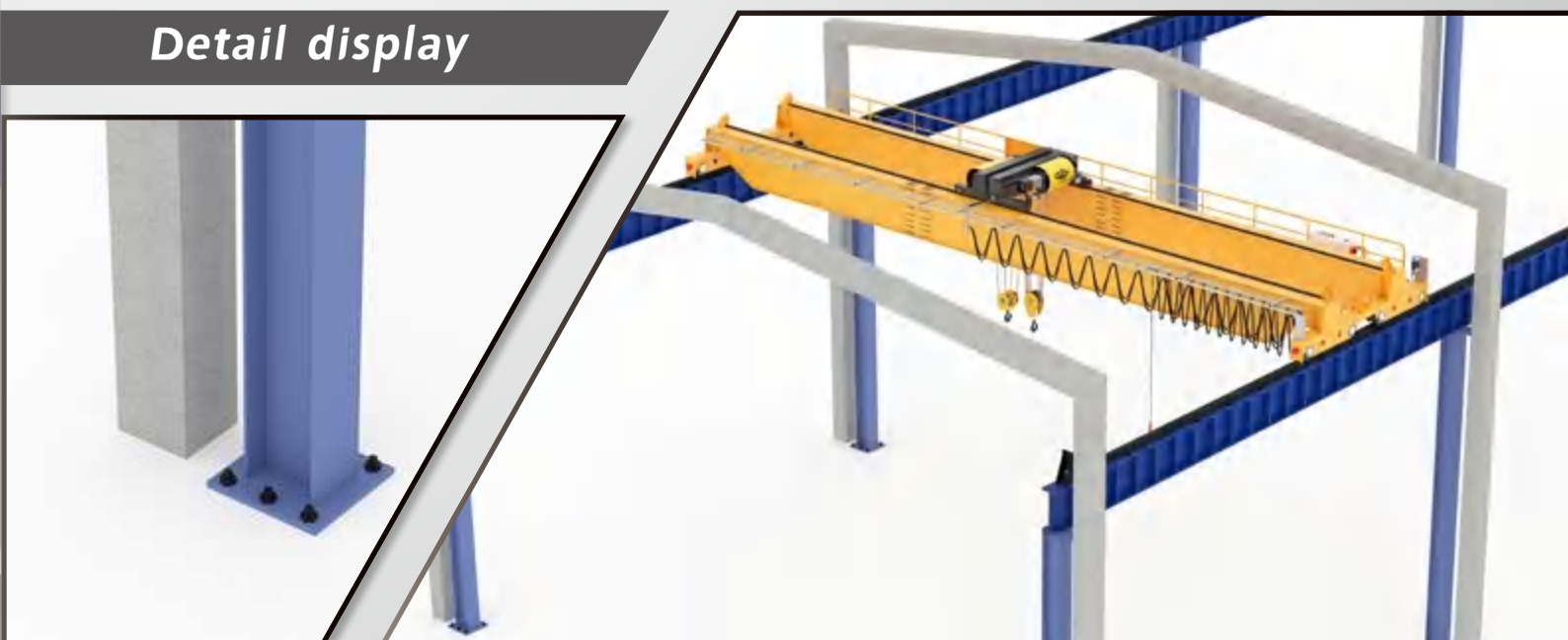
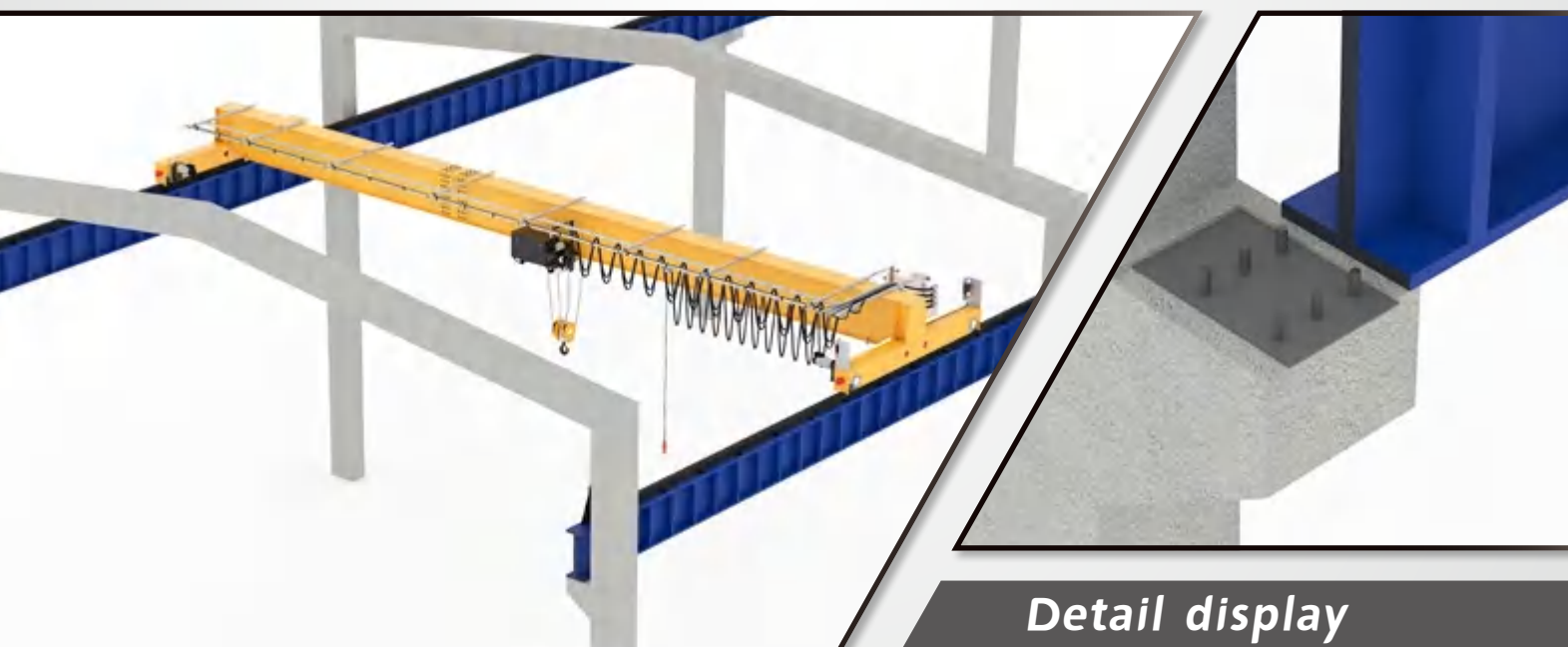
# CRANE RUNWAY SYSTEM

## Free-standing solutions to meet individual needs

Overhead crane installations can even be built in facilities where the existing workshop can not bear loads .Support structures tailored to meet your needs can be built quickly and efficiently using a range of standardised steel superstructure components.

All supports are supplied with foot plates that are dimensioned according to the design. They can be secured to the floor using foundations featuring anchor rods or by means of anchor bolts. Whole support structures are easy installation and safe, and all assembly components will be provided.

When you have need of a new runway or require changes or customization to your existing crane runway, the experienced team at Guanhui will thoroughly analyze your environment and application needs. Based on this analysis we can then recommend a runway solution suited to both your application demands and the requirements or limitations of the intended location. Guanhui runway systems are economical, designed with safety in mind, and are certified by our group of in-house engineers.





Overhead cranes /Gantry cranes / Customized cranes can vary so much in terms of specifications and configurations—no two crane builds are exactly alike! So, knowing how to select the right type of overhead crane for your business is critical to maximizing efficiency, streamlining workflow, and getting the best bang for your buck.

Guanhui committed to providing the most reliable, durable, and efficient cranes that meet your lifting and material handling needs. Whether you require lifting solutions for industries such as construction, manufacturing, logistics, or any other sector, we have the expertise to deliver tailor-made solutions that optimize your operations .

## SAFETY

## PRODUCTIVITY

## MAINTENANCE







# RENEWABLE ENERGY



In the production and manufacturing of equipment in the field of green energy and renewable energy, the requirements for the performance of the crane: the safety factor should be high, and the performance of each traveling mechanism and lifting mechanism should be smooth, impact-free, accurate positioning, and more important in series operation when the load is heavy.



Guanhui plays an important role in all aspects of materials handling for the green energy and renewables sector. We manufacture bridge cranes and gantry cranes for the handling and storage of components like generators and gearboxes to sub-assemblies such as nacelles, blades and towers, where two or more synchronized cranes operate in tandem, allowing uniform distribution of load among multiple cranes ensuring safe and precision handling.





# PULPING & PAPER-MAKING

We propose professional design and configuration solutions after the paper mill provides the production process. For example, the 360-degree rotary lifting crane is used for safe and reliable semi-automatic paper roll handling and the three-trolley crane is used for maintenance and replacement of paper roll. The use of automatic system is the company's self-developed. Guanhui crane is always your most reliable lifting and logistics transportation partner.



In the paper industry, adapts to the environmental characteristics of high temperatures, high humidity and high frequency of use in the paper workshop. There are high requirements for the configuration of single, double, and three trolleys. At the initial stage of production, it is mainly used for the installation and commissioning of papermaking equipment. After the paper machine is put into production, it is necessary to use a crane to transport the paper roll from the paper output end to the next process in time. The reliability of crane will directly affect the efficiency and continuity of the entire paper production line, and even cause greater economic losses due to shutdown.





# STONE & SLAB PROCESSING INDUSTRY

Guanhui crane have good experience in the stone industry, we have installed more than one thousand cranes in this industry. We can according to different use environments custom cranes, give our customers a reasonable price and good performance crane.



Gentle handling and accurate positioning are extremely important when you work with expensive and highly brittle raw materials. At times, the use of special handling systems makes positioning slabs easier, and sophisticated below-the-hook devices aid in the process as well. But cost-effective material handling begins with a quality lifting system, and Guanhui cranes are ideal for your precise application.

For maximum control, we also offer infinitely variable speed controls, which allow the movement of the hoist, trolley and end trucks to be precisely regulated by the operator from 1% to 100% of the main speed, and any speed in between. With this option, the load is lifted or moved at precisely the desired speed--very slow for precise positioning, moderate speed for cluttered areas, or full speed for efficiency.



## *Cost-effective Material Handling Crane for the Stone Industry*

Our success is the result of a long-standing strategy to invest in research and development and our attention to detail for even the smallest product improvement. We strive to set new benchmarks for crane performance and operating reliability.





## WASTE MANAGEMENT

In modern incineration plants, where tight environmental guidelines apply and material handling must perform at maximum efficiency from the moment waste arrives to stacks, sorts, mixes and delivers it to the incinerator.



### *The intelligent technology applied is as follows:*

- **Laser 3D scanning:** used to scan the garbage distribution in the garbage tunnel
- **Anti-swing:** equipped with mechanical anti-swing
- **Automatic positioning:** the lifting mechanism and large and small vehicles are positioned with absolute value encoder, and the positioning error is  $\pm 20$  mm
- **Database:** install the database, record and count the feeding of each shift, and connect the data with the WMS system of the workshop
- **End actuator:** equipped with special hydraulic grab

Guanhui technician team have good experience in waste treatment industry .We have independently developed the most precise electronic anti-sway device based on PLC control in China with independent intellectual property rights. Using the nonlinear simple pendulum principle and the formula of the Lagrange equation, we have developed an in the state of large lifting height ( $\geq 30$ m), the electronic anti-swing device with a swing reduction of more than 90% greatly improves the safety and production efficiency of the garbage grab during operation.



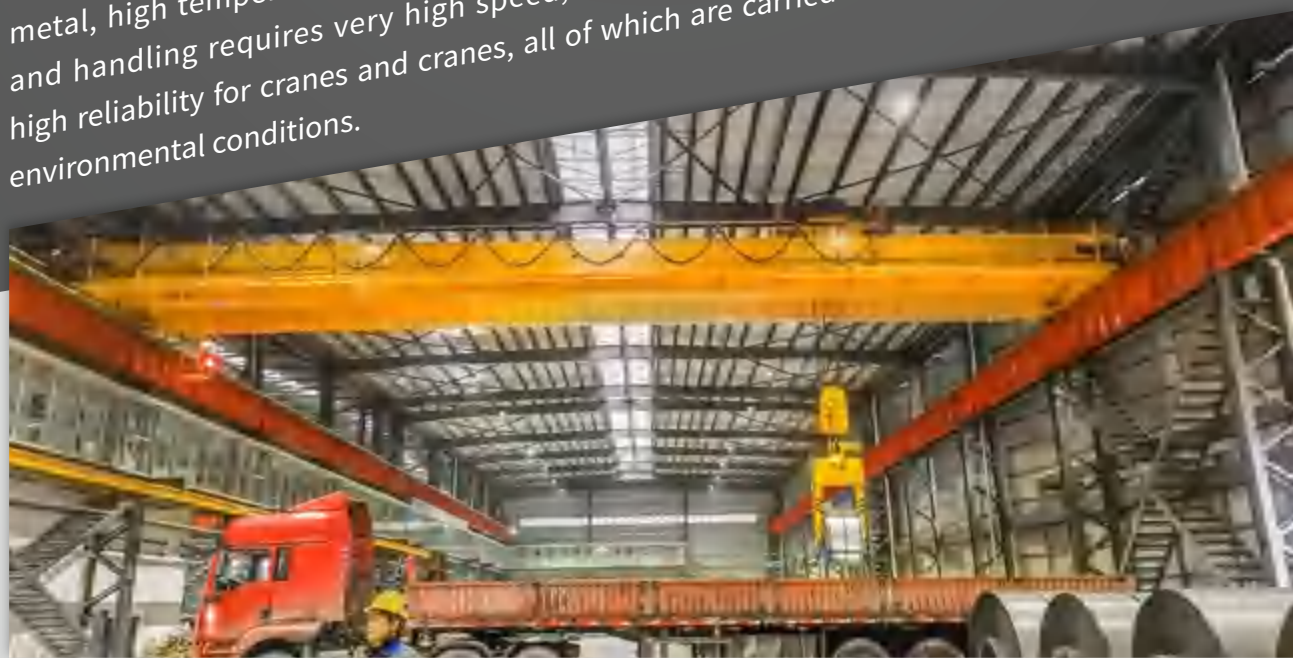


# METAL PRODUCTION & FABRICATION



We know the dangers and challenges of the metal production industry: open fire, molten metal, high temperature, dangerous load and continuous production demand; Metal lifting and handling requires very high speed, high equipment utilization, high performance and high reliability for cranes and cranes, all of which are carried out under tough and challenging environmental conditions.

Guanhui cranes can withstand high ambient temperatures, extreme dust levels and strong vibration, and are designed to be used for long-distance rapid movement to shorten the working cycle. It can be equipped with intelligent functions, such as load positioning, swing control and overload protection, to shorten the handling time, reduce crane wear, extend its life and speed up the work process.





GENERAL MANUFACTURING



General manufacturing facilities must maintain a constant flow of materials - from all ways of packaging and transportation of incoming prefabricated parts or raw materials. The correct lifting equipment will help to keep your general manufacturing workflow running at its best state. Guanhui's cranes are used in production facilities around the country. We customized designed cranes, which are suitable for almost any manufacturing application. Our crane has a long list of patents in terms of safety, productivity and reliability, which also reduces the cost of ownership.



More than **30** years  
of experience



**500t**

GLASS PRODUCTION & PROCESSING



Glass production is a delicate process. Due to the particularity of the product, including raw material storage, glass forming, annealing, cooling and processing speed, it is necessary to use special cranes as important accessories to ensure the safety of operators and products.



In order to adapt to the environmental characteristics of the glass production and storage workshop, we deal with the heavy workload of handling and transferring in the glass production line and storage, so as to make the whole process safe, stable and efficient.





## PLASTIC INJECTION MOLDING



When the production process of the industrial press involves the use of interchangeable precision-made dies, each mold is used for a unique product characteristic. When these molds need to be replaced, they should be placed on the industrial press system accurately, safely and efficiently. The stability, precision and accuracy of crane movement are more important.

For decades, Guanhui has been producing high-quality, durable, precise positioning and closed-loop variable-frequency motor controlled lifting equipment for the industry. We provide a large number of single girder and double girder bridge cranes to meet all the requirements of customers for the replacement and movement of various mechanical molds



## CONCRETE PRECAST



Guanhui understands the basic requirements of the concrete precast industry with fast cycle times, arduous tasks, large unit weight, semi-automatic control, and changeable environments, and provides well-designed intelligent processing solutions.

- ◇ **Anti-shaking:** different positions are equipped with different mechanical anti-shaking devices
- ◇ **Automatic positioning:** the lifting mechanism and large and small vehicles are positioned with absolute value encoder, and the positioning error is  $\pm 15\text{mm}$
- ◇ **Wireless LAN:** wireless LAN is used for communication between crane and ground remote I/O
- ◇ **System docking:** signal docking with on-site chain machines, centrifuges and other equipment
- ◇ **Sling:** special pipe pile and keel sling, suitable for automatic production line





# SHIP & BOAT BUILDING INDUSTRY

The shipbuilding industry not only uses a large number of crane types, but also requires capacity from less than 1 ton to more than 100 tons, from the lightest to the heaviest. For all kinds of material handling equipment required for shipbuilding, from bridge cranes used in welding to assembly gantry cranes, from small plates to the safe handling of parts in the assembly room of large ships, the efficiency and ease of use of cranes are of great help to ensure productivity.

Our full range of gantry, semi-gantry and electric bridge cranes can help them unload, move and load steel plates, beams, profiles and profiles, and place them around the storage yard, in the warehouse and manufacturing building. In ship manufacturing and ship assembly, these cranes have reliability and accuracy, and are very useful for the handling and accurate positioning of parts.

Guanhui provide a range of cranes for the shipbuilding and boat industry. You can rest assured that we understand your industry knowledge and handling needs and can recommend the best lifting solutions for your facility.





AUTOMATED CONTAINER CONVEY



Guanhui has the widest and deepest offering in automated container handling. It is built on experience from the field and deep knowledge of container crane design and operation. When it comes to automation, the container handling equipment matters.



The intelligent technology is as follows:

- **Anti-shaking:** equipped with mechanical anti-shaking device
- **Automatic positioning:** absolute value encoder positioning, positioning error range  $\pm 15\text{mm}$
- **System docking:** signal docking with on-site production line
- **End actuator:** special container sling, suitable for automatic production line



MANUFACTURING OF VEHICLES & PARTS



The crane core business in the automotive industry is the transport of dies from the storage to the press for loading ,and then return to the storage.The dies overturning requires equipped with the main and auxiliary lifting hooks that is vertically lift without horizontal displacement. Die handling cranes are also used for turning of dies for maintenance purposes.

Guanhui Crane has a proven record in meeting the exacting standards of the automotive sector and we according to different requirements design our cranes to meet customers' different requirements.We have successfully supplied lifting solutions to a lot of automotive industry, including press plant cranes which are required for the efficient storage and retrieval of the heavy dies used to manufacture vehicle body panels.












# NUCLEAR INDUSTRY

Fuel transportation has long been considered an important part of the nuclear fuel cycle. In the nuclear sector, the crane material handling system can be a useful tool for replacing spent fuel rods, transporting products in the containment area, or storing radioactive materials. The radioactive environment and the danger of materials require special design and extremely safe material handling solutions.

*Guanhui design automatic cranes used for indoor and outdoor safe and efficient movement of spent nuclear fuel are designed. The fully automatic crane has the following features:*

-  **End actuator:**  
Special bucket grab.
-  **Video monitoring:**  
Three monitoring cameras are configured.
-  **Anti-swing:**  
Equipped with full-range mechanical anti-rolling.
-  **Optical character recognition:**  
Automatic recognition of two-dimensional code on the surface of the drum.
-  **Database:**  
The upper computer installs the database, records and counts the lifted items, and interfaces with the WMS system.
-  **Upper computer:**  
The upper computer displays the operation interface of the automatic program, as well as the status information and fault information of each component.
-  **Automatic positioning:**  
The lifting mechanism adopts absolute value encoder for positioning, and the large and small cars adopt coding ruler for positioning, with positioning error of  $\pm 5\text{mm}$ .



Safety is prioritized for nuclear cranes to protect personnel, prevent accidents, mitigate radiation hazards, comply with regulations, safeguard the environment, and ensure the continuous and efficient operation of nuclear facilities.





Indoor handling of aircraft components is one of the most demanding applications of cranes. In the aerospace industry, ultra-precision control and uneven workpiece processing, as well as handling and assembly of components with light weight but large volume, are the main challenges of aviation material handling. The installed cranes need absolute accuracy when handling components to facilitate the transportation and assembly process.

Guanhui designed and manufactured semi-automatic and automatic cranes controlled by PLC for unique aerospace manufacturing and assembly process to meet the required high standards, targeted positioning, eliminating the inefficiency of manual control, and including electronic anti-swing system, so as to assemble individual components and transport components or complete aircraft fuselage.

# AEROSPACE



ULTRA-PRECISION  
CONTROL



SHORTENING  
THE WORK CYCLE



**Technical Support**

At Guanhui, our solutions are based on high-quality safety concepts, ensuring that the safety solution meets your requirements and the project runs smoothly. We have a team of more than 400 people, covering design, production, installation, testing and other teams. From crane requirements gathering to installation guidance, our professional team can support you and ensure your project runs efficiently.



**Maintenance & Service**

**Create sustainable profit and ensure safety for all parties.**



At Guanhui, we understand the importance of maintaining the functionality and reliability of crane accessories. That's why we have established a well-equipped spare parts warehouse, ensuring we can quickly and efficiently provide customers with replacement parts whenever needed. Our prompt response helps minimize downtime and ensure that our customers' operations can quickly resume without prolonged interruptions.





# The Six Different Classifications of Overhead Cranes / Gantry Cranes

There are six (6) different classifications for overhead cranes/Gantry cranes, specified by the Crane standards . If you can answer or define each of the criteria below, it will be much easier to determine the type of Gantry / overhead crane that works best for your business or industry.



## SERVICE

How often will the crane be used?



## SPEED

How quickly can the crane transfer materials or equipment? How many lifts per hour can the crane perform?



## MAINTENANCE REQUIREMENTS

What about regulatory constraints on maintenance? Are crane accessories readily available for purchase locally?



## DISTANCE

How far does the crane need to move material in your facility?



## RATED CAPACITY

What is the average rated load of the materials that your crane will be moving? How often will the crane be lifting fully-rated loads?



## SERVICE CONDITIONS

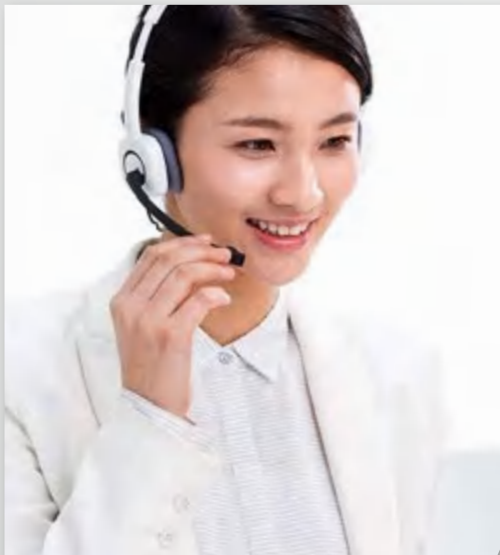
In what type of environment will the crane be operating?



## We are committed to

- Protect and improve the lifting equipment of our customer
- Improve the efficiency of the cranes
- Reduce downtime increasing the productivity of our client

Service and maintenance play a key role in our product strategy. The crane should be inspected and maintained before any problem appears in order to avoid stops, and reduce the impact of the operating costs on our customers' profits. Guanhui Cranes uses the best design, delivering a higher quality product with even higher requirements than most of the competitors to ensure additional features, reduce the maintenance cost and extend the working life of the investment.



## Service Contact

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