

## **Henan Zhonggong Group**

Henan Tosta Machinery Co., Ltd



To be a World-Class Provider of Crane Solutions



## **Company Overview**

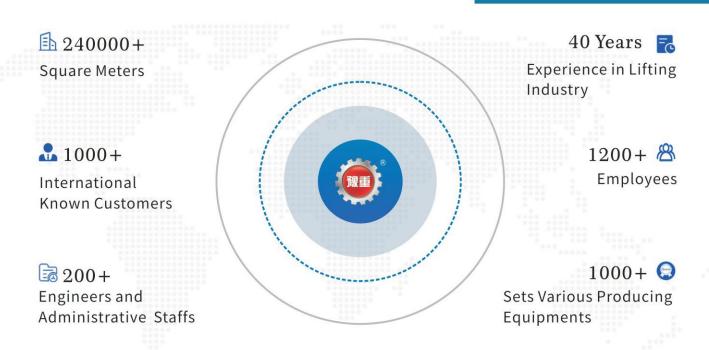


Henan Tosta Machinery Co., Ltd. is the subsidiary of Henan Zhonggong Group. Henan Zhonggong Group was founded in 1983 and covers an area of more than 240,000 square meters. As R&D oriented company, we have over 1, 200 employees and more than 200 engineers and administrative staffs. With 9 subsidiaries, Zhonggong group has developed into a large-scale equipment manufacturing enterprise integrating the research and development, design, manufacturing, sales, installation, service, import and export business of lifting machinery, port machinery, mining machinery, nuclear, power station and so on.

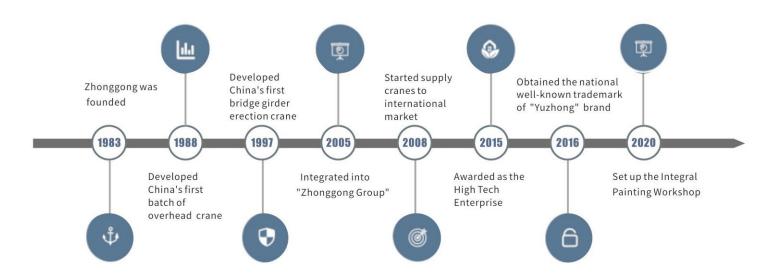
With the past years' technological innovation, we have got over 200 patents, we are also the member unit of Bridge Crane branch of "China Heavy Machinery Industry Association". With the qualified "YuZhong" brand, over 1, 000 internationally known companies from different industries have come to us for material handling solution, and our cranes are widely exported to Russia, Japan, Zambia, Pakistan, Mongolia, Vietnam, Korea, South East Asia etc.



## Why Choose Us



## History





## **Quality Control**







ISO9001 ISO14001 ISO45001

CE











#### **Patents**





















#### **Overhead Crane**



Overhead crane is the hoisting equipment that stands across workshop, warehouse or stock ground to hoist materials. And its two ends are located on high concrete column or metal support. Also known as the bridge crane, it runs longitudinally along a track with rails laid on the elevated support on the two sides.

#### **Specification**

Lifting Capacity	0.5t-350t
Span	7.5m-35.5m
Lifting Height	5-30m
Working Class	A3-A7
Power Supply	380V,50HZ,3-Phase or Customized
Control Method	Cabin control / radio remote control / pendant control
Main Electric Parts Brand	Schneider / ABB
Motor Brand	ABB / SIEMENS
Level of Protection	Ip55
Working Temperature	-20°C-40°C

- Widely used for hoisting machinery with the largest quantity
- Load Capacity can be up to 500t, the maximum span up to 35 m
- Reduce the overall investment of the plant
- Improve production efficiency, reduce maintenance costs
- Save operating energy consumption
- Obtain a better return on investment

- Widely used in plants, warehouse, and material stocks
- Matched with CD or MD model electric hoist
- Lifting capacity: 1-20T; Span: 7.5-31.5m
- Light dead weight, easy to install and maintain



Single Girder Overhead Crane



**Double Girder Overhead Crane** 

- Used for lifting heavy materials in plants, warehouse, and material stocks
- Lifting capacity: 5-350T; Span: 10.5-31.5m
- Composed with Girder frame, Crane travel device, and the trolley with lifting and moving device
- Can be customized according to customer needs
- Mainly used for lifting ladles, steel pipes, steel plates, coils, beam steel, steel craps, etc
- Lifting capacity: 100/32T; 320/80t; Span: 19.5-28.5m
- Anti-sway system for steady and smooth operation
- Accurate positioning, fully automatic, CNC control
- European standard: FEM/DIN



**Foundry Overhead Crane** 

# Henan Zhonggong Group Henan Tosta Machinery Co.,Ltd

- Equipped with HB type and HBS type explsionproof electric hoist
- Lifting capacity: 1-20t; Span: 7.5-22.5m
- Especially suitable for inflammable and explosive workshops
- With explosion-proof grade of ExdIIBT4 or ExdIICT4





**European Standard Single Girder Overhead Crane** 

- Based on international standard: DIN, FEM, and ISO.
- High protection class IP55
- Strong rigidity, light dead weight, outstanding structure design
- Lifting capacity: 1-12.5t; Span: 7.5-25.5m
- For the low workshop and high lifting height demands
- Crane trolley is assembled with motor, reducer, brake, trolley frame, drum, hook and aux hook, pulley, rain cover and other parts
- Lifting capacity: 16/3.2T, 20/5T, 25/5T, 32/5T, 40/5T, 50/10T, 75/20T
- Work duty: A5; Lifting height: Max 38m
- Compact structure, room saving, accurate lifting steady operation



**European Standard Double Girder Overhead Crane** 

- Accurate positioning for spotting loads during installation, maintenance or removal of the turbine and related equipment
- Lifting capacity: 3.2~320t; Span: Customized
- Designed for safety and reliability, with less maintenance, a longer life cycle, and enhanced performance





Electromagnetic Hanging
Beam Overhead Crane

- A specialized product for lifting and moving steel products, steel plates and steel pipes
- Electromagnet spreader is the unique part comparing with general double girder bridge crane
- Lifting capacity: 5~32t; Span: 7.5-35.5m
- High work efficiency, frequency conversion speed regulation

- Employed to lift and assemble stator and rotor in power plants
- Lifting capacity: 80/20t,100/20t
- Saving working space, less cost of service and maintenance, high performance
- Highly critical, ultra-fine controlled lifting of delicate components



Overhead Crane for Power Plants



## **Gantry Crane**



Gantry crane is also called as frame crane, which is mainly being used for loading and unloading materials of outdoor yard and stock ground. It can walk on the track of the ground directly and have the outriggers on the two ends of girder.

#### **Specification**

Lifting Capacity	1t-500t
Span	12m-35m
Lifting Height	12-40m
Working Class	A3-A7
Power Supply	380V,50HZ,3-Phase or Customized
Control Method	Cabin control / radio remote control / pendant control
Main Electric Parts Brand	Schneider / ABB
Motor Brand	ABB/SIEMENS
Level of Protection	Ip55
Working Temperature	-20°C-40°C

- Q345B steel material for steel structure
- Can withstand the impact test of minus 40 degrees
- Strong box design, less distortion automatic welding
- Cranes can be used for indoor and outdoor service at room
- Reasonable structure, superior performance
- Expand the working space and improve the work efficiency

- Widely used indoor and outdoor such as work--shop, warehouse, store yard, railway, etc
- Usually equipped with CD1 or MD1 type electric hoists
- Lifting capacity: 1-20t; Span: 12-30m
- Simple structure, easy to install and maintain



- The leg height can be different according to the engineering needs
- Usually equipped with CD1 or MD1 type electric hoists
- Lifting capacity: 1-20t; Span: 12-30m
- Simple structure, easy installation, light weight, good wind resistance



- It is box-shape structure, the leg is divided into type A and type U
- Lifting capacity: 5-300t; Span: 12-35m
- Used for mining enterprises, steel and chemical industries, railway transportation, ports and terminals, and logistics turnover
- Reasonable structure, superior performance and reduce energy consumption



# Henan Zhonggong Group Henan Tosta Machinery Co.,Ltd

- Designed and manufactured according to the standard JB / T5663-2008
- Equipped with CD1 or MD1 type electric hoists and trolley
- Lifting capacity: 5-32t; Span: 12-30m
- Light weight and latticed structure with a small windward area



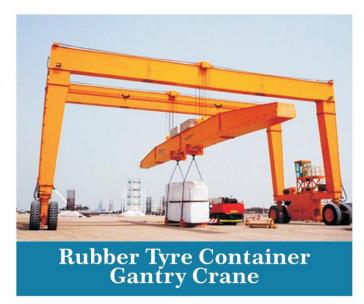


**Shipbuilding Gantry Crane** 

- It can be single girder gantry crane or double girder gantry crane
- Usually equipped with main hook and aux hook
- Lifting capacity: 50/10-500/80t; Span: 16-40m
- It can reduce the cost of plant construction due to its lower cost
- Higher production efficiency and stable performance
- Box type girder, L type legs with weld structure
- Power supply can be two forms: cable car and cable reel
- Lifting capacity: 5-20t; Span: 16-35m
- Easy installation, good operation vision and integrated console control



- It is employed to stack containers in container storage yards and is flexibly moved by its own rubber Tyre for transshipping containers
- Lifting capacity: 20-50t; Span: 10-30.5m
- Make full use of the storage yard, expand the working space and improve the work efficiency





European type single girder gantry crane

- Designed and manufactured by European FEM advanced standard
- The European trolley with three-in-one drive and adopted PLC+ frequency conversion technology
- It can transport materials very accurately at high processing speeds, and it runs stably without shaking
- Lifting capacity: 5-50/10t; Span: 18-35m
- Equipped with 4 universal casters wheel with brake, can rotate 360°
- Simple structure, easy installation, good usability and efficient high performance
- Lifting capacity: 1-10t; Span: 1-12m
- Suitable for auto repair factories, logistics companies, mechanical processing and manufacturing companies



Portable Light Gantry Crane



## **Light Crane**

The light crane adopts a unique design concept and has the characteristics of small size, light weight and small wheel pressure. Our light cranes mainly include: European Standard crane, Jib cranes, Lifting platforms, Portable cranes, etc.

- Sturdy structure, few failures, easy maintenance and high safety
- Low maintenance cost, standardized, generalized and serialized parts
- Reduce manpower, realize hoisting machinery, reduce production and operation costs, and improve work efficiency
- Can be customized
- Lifting capacity: 1-12.5t
- Span:7.5~22.5m
- Lifting height: 6m-12m
- Work class: A5
- For the low workshop and high lifting height demands





- Including main hook and Aux hook
- Lifting capacity: 3.2T-75T
- Span:10.5~31.5m
- Lifting height: 12m-28m
- Widely used in workshop, warehouse and yard to lift materials



- It is classified in terms of installations into floor-mounted, wall fixed and wall rail jib crane
- It can rotate 180°, 270°, 345°, 360° according to the user's requirements
- Widely used in factories, workshops, production lines, assembly lines and machine and warehouses, docks
- Lifting capacity: 0.5-3t; Span: 3-6m; Lifting height: 3-4m
- It is a vertical lift, which is a widely used aerial work equipment
- High stability, large platform and high carrying capacity
- Internal power pack equipped with relief valve against overloading
- Mainly used in factories, airports, offices, shops, stations, building decoration and other industries



**Lifting Platform** 



**Portable Gantry Crane** 

- Equipped with 4 universal casters wheel with brake, can rotate 360°
- Simple structure, easy installation, good usability and efficient high performance
- Lifting capacity: 1-10t; Span: 1-12m; Lifting height: Max 15m



## **Launching Gantry Crane**

Composed of main girder and coupling system, fixed legs, movable legs, wagon walking mechanism, overloaded overhead traveling cranes, special hoisting appliances and control system, etc.

- Load Capacity can be up to 800t, the maximum span up to 35 m
- Unique pin connection, firm and reliable, easy to install
- A-type fracture surface, continuous girder with low center of gravity, convenient and reliable
- The machine can accomplish the build of girders with carrying and erection at the same time
- The structure of the product is light and wind resistance is good
- Save labor and improve work efficiency











#### **Port & Container Crane**

Port & Container Crane is a heavy-duty double-beam gantry crane with a U-shaped door frame and a very large leg distance, up to 7M. It is suitable for loading and unloading containers, heavy and large cargo. It is composed of four main parts: bridge structure, trolley traveling mechanism, crane traveling mechanism and electrical equipment.

- Q345B steel material for steel structure
- Lifting speed is lower and the speed of long traveling is higher
- Long length along the running track
- Synchronizing device settled
- Lifting capacity: 5-500T, Lifting height: max-45m
- Span: 18-35m, Work class: A5-A7











## **Shipbuilding Gantry Crane**

Shipbuilding gantry cranes are specially used for the transportation and docking of debris in docks (or berths). They have the characteristics of large lifting capacity, large span, high work efficiency and multiple functions.

- Can be single girder gantry crane or double girder gantry crane
- Usually equipped with main hook and aux hook
- Lifting capacity: 100-1000T, Lifting height: 25-60m
- Span: 40-180m; Work duty: A5
- Stable performance, simple and convenient daily maintenance
- Higher production efficiency and wide application scenarios











## **Hoist & Crane Trolley**



Electric Hoist and Crane Trolley are essential functional mechanisms running on the beam of cranes to realize the operation on both the horizontal and vertical directions. It has various types, such as CD1 MD1 model, Explosion-Proof model, Insulation electric hoist, Monorail Hoist, European Wire Rope Electric Hoist, etc.

### **Electric Hoist**



CD1, MD1 Wire Rope Electric Hoist



Euro-style Single Girder Hoist



Euro-style Double Girder Hoist



## **Electric Hoist**



Electric hoist for low-building



Super-high Electric Hoist (30-200m)



Electric Chain Hoist



Explosion-Proof Electric Hoist



Sync-hook Electric Hoist

## **Trolley**



Electric Winch



Integrated Electric Hoist Double Beam Trolley



Double-track Electric Trolley



## Components







Control pendants

Crane Hook

Crane Brake







Crane Cabin

**Crane Motors** 

Crane Rails







Crane Reducer

Crane Wheel

Gear Motors









Overload Limiter

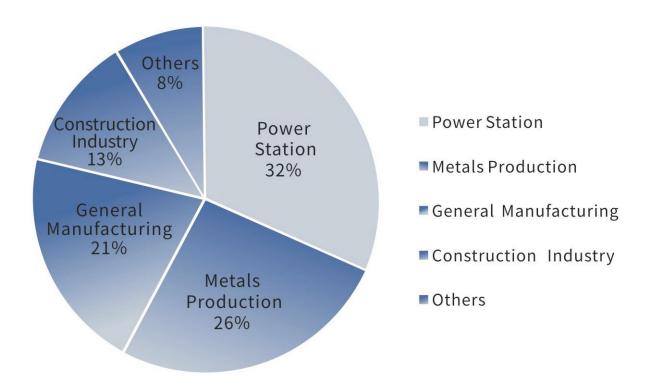
Rolling Drum

Wire Rope Pulley

Wire Rope



## **Industry Distribution**



## Service



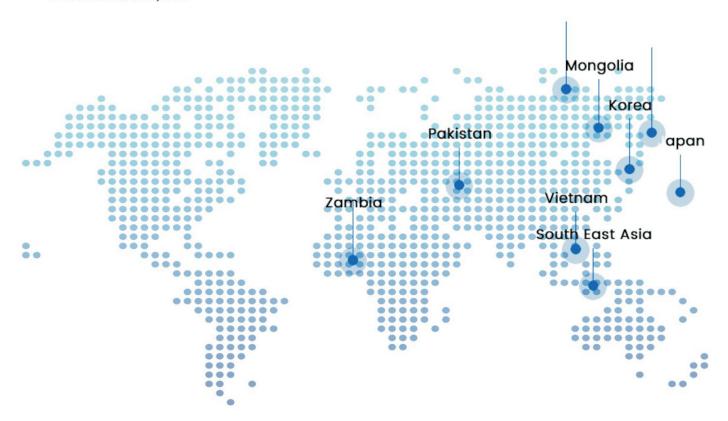
Training Installation Spare Parts Repair



## **Marketing Distribution**

## **Zhonggong Offer Cranes All Over The World**

As a R&D-oriented company with 40 years' experience in lifting equipment, Zhonggong Group has offered 1000+ internationally known companies cranes and components for material handling solutions. Being a member unit of Bridge Crane branch of "China Heavy Machinery Industry Association", our products have been exported to Russia, Japan, Zambia, Pakistan, Mongolia, Vietnam, Tajikistan, Korea, Southeast Asia, etc.



## **Contact Us**

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