



**HUADA**  
BRIDGE ERECTION & ROAD MAINTENANCE



# OVERHEAD CRANES

# Overhead Cranes



Overhead Cranes can also be called bridge cranes and eot cranes, which are cranes with a hoist or winch traveling along the bridge between parallel rails. They are designed to meet the medium to heavy industrial lifting requirements; the overhead crane is composed with Girder frame, Crane travel device, electrical device and the trolley with lifting and moving device. Generally, Overhead Crane can be divided into 2 kinds, namely Single Girder Overhead Crane and Double Girder Overhead Crane.

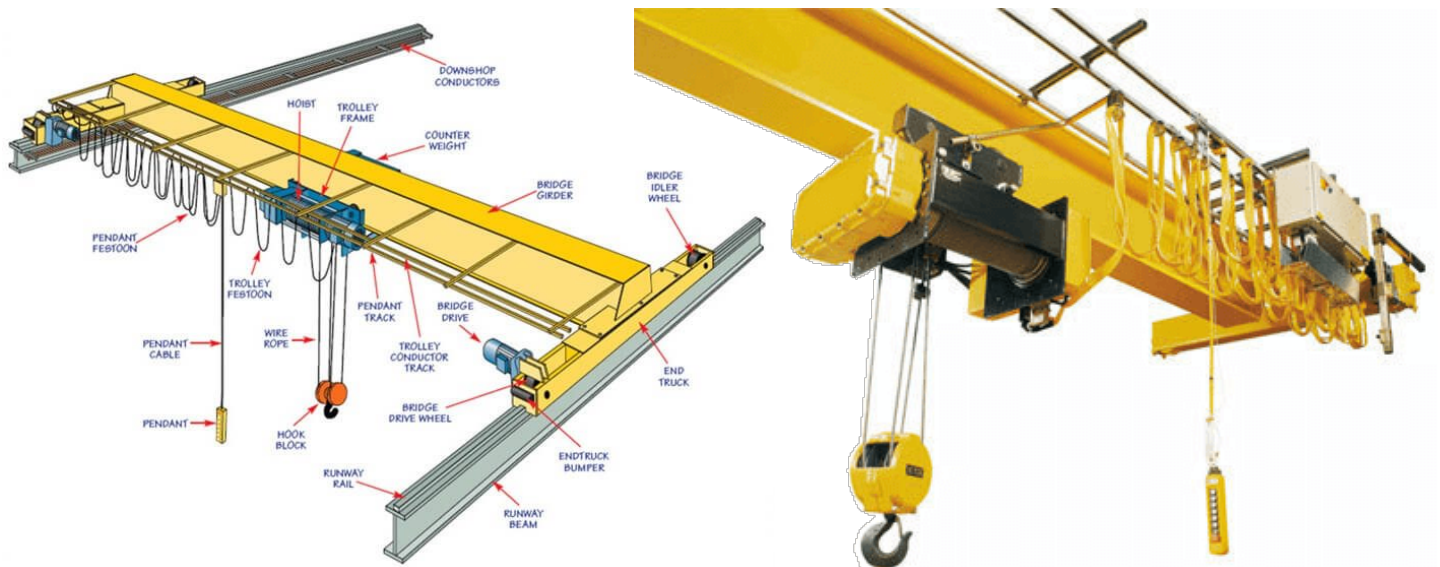
## Single Girder Overhead Crane

Single Girder Overhead Crane is a kind of light duty crane, with a capacity of 1 to 20 tons. The span is 7.5 to 31.5 meters. Working grade is A3. Working temperature is  $-25^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ .

It is widely used in plants, warehouse, and material stocks to lift goods.

It is matched with electric hoist which is CD model or MD model.

It is prohibited to use the equipment in the combustible, explosive or corrosives environment.



# Double Girder Overhead Crane

Double Girder Overhead Crane is composed with Girder frame, Crane travel device, and the trolley with lifting and moving device. There are Pave the rail for the trolley move on the main girder. Assemble the moving table on the outside of the two main girder, one side is prepare for the assemble and maintenance the crane move device, another side is prepare for the assemble of the trolley conductor device. There are full field of view Cabin suspend under the main girder, there are joint control desk or single control box packed within the Cabin, assemble the sidelong ladder between the Cabin and moving table, The main girder joint with the two side end carriage which with the joint point in the middle.



# European type Overhead Crane



European type Overhead Crane have such design concepts as small dimension, 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 more close to the front, and lifting height more higher that increases effective working space of workplace.



## Main Features

1. Customized design base on GB/ISO/FEM/DIN/BS standards.
2. High efficient, with the work class: ISOA3-A7, FEM 1m-4m.
3. The frequency-converter can be installed.
4. Cabin control, remote control, pendant control can be equipped.
5. Inspection standard for load test: Dynamic/ Static load test 1.1 times/1.25 times.
6. Light duty & modular design.
7. Compact structure.
8. Convenient and safe operation.
9. Efficient and low noise.
10. Room saving.
11. Accurate lifting steady operation.

# European type Single Girder Overhead Crane



Huada Heavy Industry Europe standard Single Girder Overhead Crane is our new designed crane for the low workshop and high lifting height demands. It has many advantages such as: Strong rigidity, light dead weight, outstanding structure design, etc. It could save your factory space and investment effectively. Its technology is advanced and design is based on international standard: FEM (Europe), and ISO (International).

Huada Heavy Industry Single Girder Overhead Crane with Electric Hoist used in warehouse to do many kinds of lifting works, it is a light duty Overhead Crane and is widely used in plants, warehouses, material stocks. However, it cannot be used in environment which is combustible, explosive or corrosive. Main electric parts are Schneider brand, lifting mechanism is the electric hoist, which assistant the crane to finish the lifting and moving work efficiently and safety.

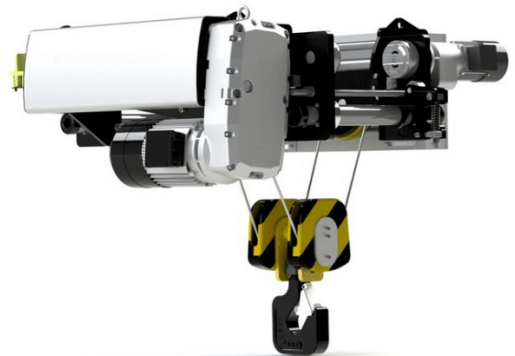
Electric hoist runs along the lower flange of the I-steel of the girder to accomplish article hoisting. It features light structure and easy installation and maintenance, and is widely used for different places for hoisting. The classification group is A3, and the operating ambient temperature is  $-25^{\circ}\text{C}\sim 40^{\circ}\text{C}$ .

Capacity: 1~12.5t

Span: 7.5~22.5m

Lift height: 6~12m

Lift speed: 0.8/5 m/min



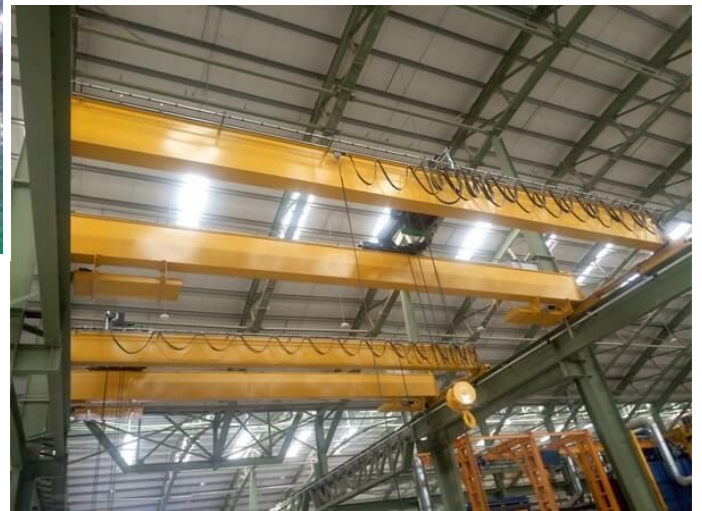
The lifting hoist adopts M5 working class with double lifting speed. motor with ABM German brand motor. Travelling motor uses SEW European brand in one motor gear motors. Cross and long traveling are variable travelling speed. Electric parts adopt Siemens brand. The working class can reach to A5/M5 class under ISO standard.

# European type Double Girder Overhead Crane



Huada Heavy Industry European type Double Girder Overhead Crane is a new type Double Girder Overhead Crane, compared with the normal Double Girder Overhead Crane, adopts the FEM standard, structure is more compact, working more steady with low noise, the motor is ABB, reducer uses SEW, Siemens main electric parts, all these characteristics makes it more has more advantages compared with normal Overhead Crane.

The whole technical level reach to international and domestic advanced leading level. The crane's steel mechanism with professional design, structure optimization, meet the requirements of strength, rigidity and stability. During the design progress, take into account about the working environment, the design of steel structure considering the manufacture, inspection, transportation, installation and maintenance convenience.



Crane trolley is assembled with motor, reducer, brake. trolley frame. drum, hook, pulley, rain cover and other parts. It includes lifting mechanism and cross traveling mechanism. Double Girder Overhead Crane rely on the bridge frame along the workshop orbital direction moving longitudinal, Trolley along the main beam direction moving transverse and the hook lifting movement to work. High lifting capacity of Double Girder Overhead Crane is designed with two hooks that means two independent sets of hoisting mechanism. Main hook is used to lift heavy objects while the auxiliary used to lift light objects, the auxiliary can also be used for collaborative main hook tilting or tipping the material.

# Overhead Crane with Grab

## Single Girder Overhead Crane with Grab

Capacity: 1, 2, 3, 5, 10, 16, 20T

Span: 7.5~28.5m

Lifting height: 6, 9, 12, 18, 24, 30m

Lifting speed:

0.35/3.5, 0.7/7, 0.8/8m/min



Single Girder Overhead Crane With Grad is a kind of light duty crane, with a capacity of 1 to 20 tons. The span is 7.5 to 28.5 meters. Working temperature is -25°C to 40°C.

Single Girder Overhead Crane with Grab is usually used to grab and lift common materials with work duty not more than A4.

Two electric hoists are equipped with it, one works as lifting mechanism, another one works as open-and-close mechanism. Single Girder Overhead Crane with Grab has advantages of compact structure, beautiful exterior, convenient for operating, economical and practical.

Single Girder Overhead Crane With Grad is widely used in plants, warehouse, and material stocks to lift goods. And it's a perfect small equipment to grab materials.

## Double Girder Overhead Crane with Grab

Capacity: 32/5, 50/10T

Span: 10.5~31.5m

Lifting height: 16, 18m

Lifting speed: 15.6m/min



Double Girder Overhead Crane with Grab is widely used in loading goods in port, factory, workshop, power plant, steel melting plant, cement plant, waste renewable energy industry.

The working duty is heavy. The group classification of the crane is A6, A7, A8.

1. Direction of platform door to the driver's cap is: side, end and top.
2. Lifting capacity includes the weight of the grab.
3. Open direction of the grab includes paralleling with the beam and plumbing with the beam, this design is the plumbing type.
4. Grab overhead crane includes main beam, lifting trolley, wheel, hook, pulley, electrics, grab.

# Overhead Crane with Trolley

## Double Girder Overhead Crane with Hoist Trolley

Capacity:

5,10/3,16/3,20/5,32/10T

Span:7.5~25.5m

Lifting height: 6,9,12,18,24,30m

Lifting speed: 3,3.5,7,8m/min



Double Girder Overhead Crane with Hoist Trolley, Main girder includes girder box, platform, pantograph and trolley rail. The Main girder will be strictly fabricated and detected in workshop according the design and national standard.

The electric hoist trolley adopt steel wire rope electric hoist trolley, the standard traveling speed of crane is 3-30m/min, standard traveling speed of trolley is 2-20m/min. As for lifting speed, frequency control makes it has optional speed besides the standard speed to meet customers different requirement.

Whole crane before painting will be done the shot blasting, painting totally four layers including the one layer of priming paint, two layers of intermediate coat and one layer of finishing coat.

## Double Beam Overhead Crane with Double Trolley

Capacity:

5,10,16/3.2,20/5,32/5,50/10T

Span: 10.5~31.5m

Lifting height: 6,9,12,18,24,30m

Lifting speed:

7.9,8.5,10.7,11.3,13.2,15.6m/min



Double Trolley Overhead Crane is suitable to lift long materials(wood, paper tube, pipe and bar) in workshops or outdoors to store in factory and mines. The two trolley could work separately and at the same time.

Double Girder Overhead Crane are mainly consists of Girder frame, Crane travelling device, two lifting trolley and electrical parts. Bridge adopts box welded structure, high degree of vertical and horizontal rigidity; crane travelling mechanism adopts separate drive. It has a strong beam and a stable travelling mechanism; the emergency switch can stop any movement once any dangerous happened. It is rely on the bridge frame along the workshop rail direction moving longitudinal, the trolley along the main beam direction moving transverse and the hook lifting movement to work.



# Low Headroom Single Girder Overhead Crane

Capacity:1~20t

Span:7.5~31.5m

Lifting height: 6,9,12,18,24,30m

Lifting speed:

0.35/3.5,0.7/7,0.8/8m/min or

3.5,7,8m/min



Low Headroom Single Girder Overhead Crane is composed of girder weld by steel plate and I-steel, end girder, electric hoist and travelling mechanism. The electric hoist runs along the lower flange of the I-steel of the girder to accomplish article hoisting. It features light structure and easy installation and maintenance.

Low Headroom Single Girder Overhead Crane is designed for low headroom workshop. The difference between them is the way of electric hoist running. The electric hoist of Low Headroom Single Girder Overhead Crane is running at the bottom flange plate of girder and the electric of Single Girder Overhead Crane is running at one side of the girder, which increase the work space of the hook and reduces the workshop height and cost.

# Underslung Single Girder Overhead Crane

Capacity:0.5~5t

Span:3~16m

Lifting height: 6,9,12,18,24,30m

Lifting speed:

0.35/3.5,0.7/7,0.8/8m/min or

3.5,7,8m/min



Monorails and underslung cranes with monorail hoist owns tight dimension, low building headroom, light dead weight and light wheel load. It is a light duty track traveling crane with trajectory. The standard capacity is 0.5T, 1T, 2T, 3T, 5T; the span is from 3m to16m. it adopts ground control and works at a temperature of -25--40 centigrade.

Underslung Single Girder Overhead Crane applies to works and storehouses where it is  $\geq 100$  mm height between the rail surface and the rafter of roof truss.

The trolley forms a set with electric hoist, The mechanism is nimble, with safe and reliable motion. We are capable of designing and making non-standard hoisting equipment.



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