



# HD type Single Girder Overhead Crane





# Product Overview

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European style single girder overhead crane is designed according FEM / DIN standard, have the design concepts of small dimension, light dead weight and so on. Compared with traditional crane, European style single girder overhead crane has the minimum limiting distance from hook to wall, lower headroom and higher lifting height.

With these features, the European style single girder overhead crane could provide the workplace with more effective working space. As a result of it, the workplace could be designed smaller than before but with more functions. In addition, the wheel pressure is also decrease because the dead weight than before. A huge amount of money could be saved from the initial construction investment, long term heating fee, air conditioning and other maintenance fee. From the above, European style single girder overhead crane is a advisable choice for the client.

# Supply Scope

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**Design standard:** FEM / DIN

**Lifting capacity:** 1-20 ton

**Span:** 3-31 m

**Lifting height:** 6/9/12/15/18 m

**Voltage:** 220-660V 50/60Hz 3Ph

**Ambient temperature:** -20~+40°C



*Note: We provide customized product services.*

# Metal Structure

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- Box girder for partial rail beam or H beam structure, the steel plate welding forming
- material of steel plate is Q235B/Q345B
- Vertical deflection is L/800
- All steel shot blasting pretreatment, achieve Sa2.5 level standard
- Carefully check and cleaned before welding steel, usually by the automatic welding machine for welding (MIG or semi-automatic welding)
- All weld for X-ray nondestructive flaw detection
- Beam of rectangular steel pipe or welding forming in the numerical control machine tool processing forming at a time, material of steel plate Q235B/Q345B
- Each end beam is equipped with double rims of wheels, buffers and derailment protection devices
- the maintenance platform (maintenance walkway) of double-beam crane is installed in the driving side of crane in the direction of the main beam
- The main beam and the end beam are connected with 10.9 high strength bolts to ensure the precision and smooth running of the whole machine.



# Hoist Options

## OPTION A



## X SERIES ELECTRIC HOIST

- Full variable frequency drive - energy saving;
- Protection class IP54- long life;
- Noise as low as 65 decibels - mute;
- High level of work - high efficiency;
- Built-in precision planetary reducer drive - safe and efficient;
- Hoist reducer planetary gear. Planetary gear is a load sharing system with light weight and compact structure, saving space. The transmission efficiency of the system is very high and the maintenance time interval is optimized to save operation cost;
- Solid durable hook slide wheel hook forging strength grade DIN15400 / DIN15401 standard 360 ° rotating load spring safety buckle hook, hook T level.

## OPTION B



## F SERIES ELECTRIC HOIST

- Full variable frequency drive - energy saving;
- Protection class IP54- long life;
- Noise as low as 65 decibels - mute;
- High level of work - high efficiency;
- Built-in precision planetary reducer drive - safe and efficient;
- Solid durable hook slide wheel hook forging strength grade DIN15400 / DIN15401 standard 360 ° rotating load spring safety buckle hook, hook T level.

# Advantages

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## OVERALL MECHANISM

- 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%
- It is safe and reliable, adopts safety monitoring, low noise, low maintenance cost and convenient and quick maintenance.

## LIFTING MECHANISM

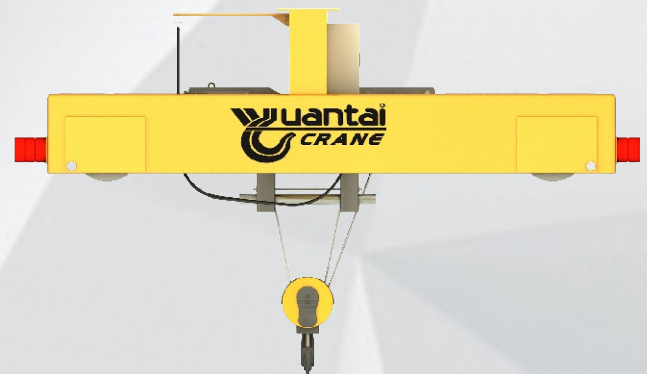
- The reducer is durable and low in noise;
- The motor adopts the world's advanced energy-saving inverter motor, which has reliable function, long service life and low noise;
- Brake, long service life, the main swing hinge point is equipped with automatic lubrication bearing, no need to add lubricating oil during use;
- ED pusher in accordance with DIN standard;
- Protection class IP54/IP64 (optional)

## TRAVELLING MECHANISM

- Drive unit: three-in-one, four-in-one (optional), modular design, long service life, cost-effective, energy saving and environmental protection;
- The wheel is made of ductile iron material with low noise, low resistance to self-friction effect and good wear resistance;
- The reducer is durable and low noise
- Motor, reliable function, long service life, low noise, DC disk type;
- Thermal energy protection;
- Protection class IP54/IP64 (optional)

## ELECTRICAL SYSTEM

- Full vehicle frequency conversion (optional)
- Infrared monitor (optional)
- Infrared anti-collision device



# Photos View

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# Photos View



# Photos View

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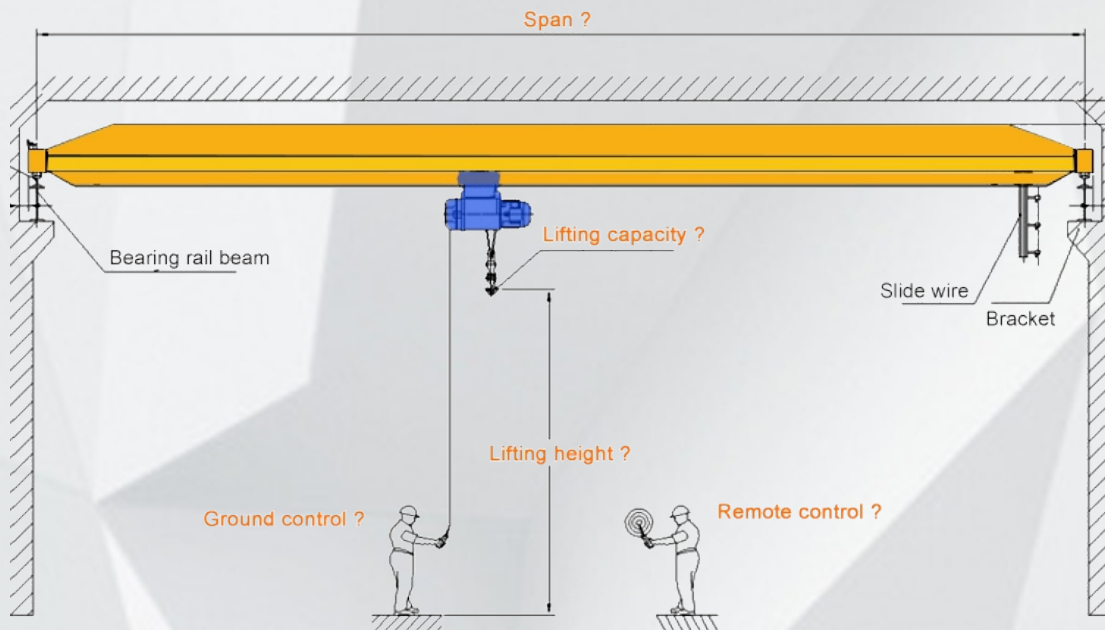
# Photos View

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# Tailor your crane

- Lifting capacity:  ton
- Lifting height:  m
- Span:  m
- Voltage:  V  Hz  Phase
- Control Mode: A. Remote control    B. Pendant Control    C. Cabin control
- Where will the crane be used?
- What material will the crane lift?
- How many hours does the crane work in a day?



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