



MGO Model Double Girder Gantry Crane





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MGO model double girder gantry crane is the ground rail mounted gantry crane and widely used in the open yard and warehouse inside for the material loading/unloading.

After upgrading from traditional type gantry crane, it increases space utilization efficiency both horizontally and vertically out of compact structure of the crane frame and lifting hoist with trolley frame. All moving mechanisms are two speed control for accurate positioning and smoother movement. The lifting hoist with trolley frame enables less overall load pressure on main girders, and the smooth crane movement enables less damage to the rail, therefore, it's safer lifting and will help to reduce downtime cost.

Supply Scope

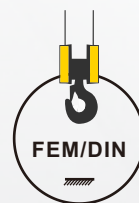
- Lifting capacity: 10t, 20/5t, 32/5t, 50/10t, or other
- Span: 18~35m, 18~26m, 26~35m, or other
- Lifting height: 10m, 12m or other
- Voltage: 220-600V 50/60Hz 3Phase
- Working duty: FEM 2M
- Ambient temperature: -20~+40℃



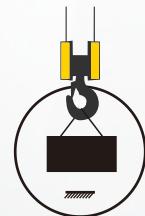
Note: For non-standard specifications, please talk to your sales representative for consultation on customized product service.

Features

- Adopt modularization design for lifting mechanism, FEM/DIN standard, light weight
- High-strength alloy-steel forging wheels
- Capsule cab with broad vision (optional)
- Rectangular steel-pipe handrail
- Hard tooth surface reducer
- Power supplied by festoon cable for trolley
- World's leading anti-sway control technology (optional)
- Advanced fabricated technology
- Low-energy and maintenance-free



Modularization design



Light weight



Low-energy



Maintenance-free

Composition

Main girder and Legs

- Welded box-section beam, mainly use material Q235B(Q345B optional) carbon structural steel strong and elegant, easy to maintain. Main beams with maintenance platform at one side, ground beams and legs.
- Three-layer painting.(For coastal working environment, anti-collision epoxy zinc rich paint can be added.)
- Strong and elegant.

Crane travelling mechanism

- End carriages-Q235B carbon structural steel with quality wheels and powerful motor. Three-layer painting.
- Wheels-Made of forged carbon steel by our factory. Installed on the crane end carriages as drive wheels, high carbon steel material, vacuum casting by our group, Intermedium quenching by top technique machinery antirust painting.
- Crane travelling motor-Three-in-one.Protection class IP54



Lifting mechanism

- Increased horizontal space utilization efficiency
- Compact low headroom to increase vertical space utilization efficiency
- Two speed control for accurate positioning and smooth movement
- 4XCD/MD lift time
- M5 duty class
- 60%ED
- IP54 Protection class

Hoist lifting and travelling motor

- SZW brand, Squirrel Cage and Frequency Conversion Hoist Motor. Protection class IP54
- Reducer- Precision planetary reducer drive in drum.
- Light and compact.
- Well-sealed, no oil leakage

Protection system

- **Overload limiter**
Alarm point accuracy $\pm 3\%$. Under overload condition, cut off the lifting control circuit.
- **Lifting limiter**
For lifting protection, prevent the hook from knocking the hoist.
- **Traveling limit switch**
For long travel, protect the crane before it crashes the object.
- **Rotary limit switch (Optional accessories)**
For crane travel, accurate and durable.
- **High quality anti-collision buffer**

Control options

- Pendant control
- Remote control
- Cabin control



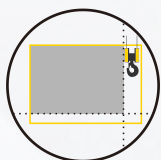
Advantages

MGO model European Double Girder Gantry Crane is equipped with high performance SZW motors, ABM brand motor (optional), Schneider brand electrical components, variable speeds, box girder design, light pressure electric lifting trolley. Low noise, free maintenance, light weight, most popular used in the open yard.

- The overall height of the double girder gantry crane can be 20%~25% lower than that of traditional crane with weight reduced by 20%~30%.
- The maximum wheel pressure can deduct by 15% ~ 20%.
- The small size of this crane can increase the working area.
- With the light structure it can reduce the construction costs.
- Each spare on the crane is designed to series standard modulus, which makes assembly easy.
- The independent modulus is convenient for the transportation.
- Standard modulus production can ensure stability quality of the product and shorten the delivery period.
- Sandblasting pretreatment for the steel plate with surface quality reaching Sa2.5.
- Using digital cutting machine to cut the web plate to ensure the smooth and precision of the camber curvilinear.
- Main welding seam adopts auto arc merged welding, Ultrasonic, X-ray nondestructive inspection.
- The crane and trolley frame adopt floor type boring machine to ensure the flatness of the machine side.
- The safety supervises system is equipped with overload limiter, and on the monitor it can display the loads value and remind the operator to prevent the overload happening.
- Before the start, the entire controller will start self-checking including: power voltage, default phase, the effective of each safety protective device and zero position of the button.



More lower &
light wight



Increase
working area



Reduce cost



Assembly easy



Self-checking

Advantages

- Adopts imported with original packaging from Germany, The brake force shall no less than 2160N/mm², and its safety factor shall no less than 5.
- Motor is with insulation grade F, and protective class IP54, it also has over heated and alarming function, the motor shell adopts aluminum alloy to drawing the molding, with better heat dissipation.
- Imported reducer, harden face gear, improve the bearing ability, better sealing of the shell, ensure there no grease penetration.
- The main electric elements adopts the international brands include Schneider, Siemens, ABB. The protective grade of the electric control box is no less than IP 54.
- The wheels are forged by 65Mn alloy steel with the performance of abrasive resistance and long service life. According to the needs of the customer, it also can adopt domestic configuration.
- The total power of the crane can be lowered by 30% than that of the tradition crane.
- The multi-in-one integrated transmission mechanism has less intermediate ring knot with high transmission efficiency.
- Adopt frequency control with high and low speed ratio 1:10, work efficiency increased by more than 20%.
- The "Maintenance-free + easy maintenance" design concept reduces customer maintenance costs.
- The new style FEM/DIN Crane uses advanced processing technology and high-quality imported components. Its failure rate has been greatly reduced, helping customers reduce operating costs.
- The "black box" of Crane safety monitoring system records crane runs every time for crane. (Optional)
- World's leading electrical anti-sway technology can be installed on the crane to achieve precise positioning. (Optional)
- Advanced electrical control technology can achieve the semi-automatic and automatic control lifting with PLC control system to become "Lifting robot".



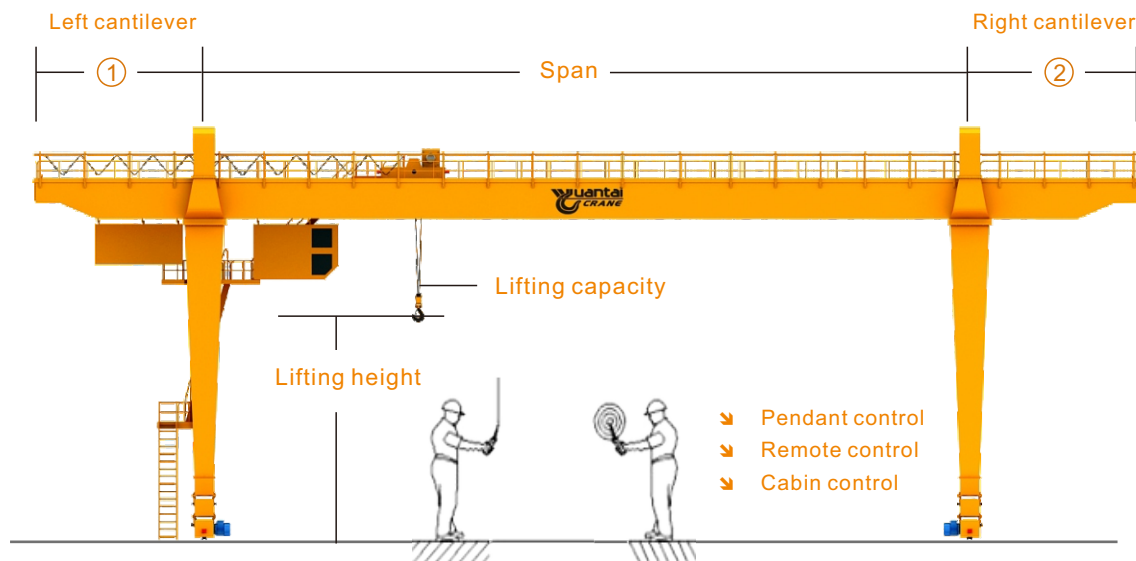
Photos View



Photos View



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?
- Transportation: tell us the sea port name near you, we can quote you shipping freight.



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