



Henan Tosta Machinery Co., Ltd.

Gantry Crane

Rail Mounted Gantry Crane

[Rail mounted gantry crane](#) (also called RMG crane) is a type of large dockside gantry crane found at container terminals for loading and unloading intermodal containers from container ships. It is manufactured to individual customer needs in a variety of different stacking heights and spans. Zhonggong [cranes factory](#) can provide you various cranes with satisfied service.



Advantages of rail mounted gantry crane

- Exceptional anti-sway performance
- Increased productivity compared with alternative designs
- Low maintenance and spare part costs
- Smooth gantry operation
- Improved performance where high in-service winds prevail
- Optimum design for automation
- In-house expertise and excellent after-sales service
- Lower energy costs

Zhonggong rail mounted gantry crane specifications

Capacity (under the spreader)/t			30.5	35	40.5	50
Working-class			A6~A8			
Span/m			35			
Overhung length/m			12			
Base distance/m			16			
Lifting height/m			15.4	15.4	18.2	18.2
Speed	Hoisting/m/min	Load	12	12	18	18
		No-load	24	24	36	36
	Trolley traveling/m/min		60	60	75	75
	Crane traveling/m/min		45	45	45	45
Total power/kw			~200	~230	~255	~300
Max. working load of wheel			260	265	280	300
Crane steel rail recommended			QU70	QU70	QU70	QU80
Power supply			3AC 380~660V 50/60Hz			

Zhonggong rail gantry crane features

1. Rail Mounted Gantry Crane is widely used together with winch or trolley for lifting device. It is a medium and heavy size crane which travels in track.
2. It is constituted by main beam, support legs, crane traveling organ, trolley travel mechanism, electric equipment and operation cab.
3. It is a regular crane widely used in workshop, storage, port and hydroelectric power station and some other outdoor place, where it has a high frequency or more lifting times.
4. Its proper lifting weight is 5 to 160 tons, and proper span is 18 to 35 meters.
5. Power is supplied by cable or slide wire.
6. Its proper working temperature is -20--+40 centigrade. It is prohibited for lifting melt metal, flammable, explosive, corrosion, overloading, dust and other dangerous operations.
7. Customized design based on your specific applications is available. Grab bucket, container spreader, and other special lifting devices can be equipped to do special material handling work.
8. High efficient, with the work class high up to A5(Medium) and A6(Heavy).
9. Three control modes for your selection: cab control, remote control, floor control.

Rail mounted gantry crane design

Zhonggong provides professional rail mounted gantry crane for sale, our rmg cranes brings together decades of experience in crane design to achieve high performance, high reliability and operational accuracy, while significantly reducing operating costs and energy consumption.

We can tailor rmgc cranes to your specific operational needs.

(1) Main beam structure

The main girder structure is composed of two box end girders and the frame girder is supported on the rigid and flexible legs. At present, the partial rail box beam is often used, the high strength bolt or welding method is used to connect the main beam and the rigid leg, and the twisted connection mode is used to connect the flexible leg. For the convenience of installation of rmgc cranes, the connection between the main beam and the end beam is generally connected by high strength bolts.

(2) Door leg structure

For small and medium span rail container gantry crane, both rigid and flexible door legs adopt box structure. For the long-span crane, the three-degree-of-freedom dumpling connection is adopted for the connection between the flexible leg and the main beam, and a synchronous detection device is set up.

(3) Trolley structure

The structure of the running trolley is different according to whether the hoisting mechanism is of wire rope drum type or telescopic rigid frame type, and the combined structure of box girder and grid is generally adopted. The structure of the running trolley takes into account the arrangement of the hoisting mechanism and the running mechanism of the trolley, and has a certain stiffness.