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Double Girder Overhead Crane

Henan Weihua Heavy Machinery Co.,LTD.

World leading crane manufacturer
making the world easier

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Supply Scope

Lifting capacity: 5t-550t

Span: 10.5m-31.5m

Lifting height: 1 m-30m

Working duty is medium: A5, A6

Also supply non-standard products according to your requirements

Lifting capacity:

5T	10T	16/3.2T	20/5T	32/5T	50/10T	75/20T	100/20T	125/32T	150/30T
160/32T	200/50T	250/50T	300/75T	350/80T	400/80T	450/100T	500/100T	550/100T	

Span:

10.5M	13.5M	16.5M	19.5M	22.5M	25.5M	28.5M	31.5M
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Span:

A5 (Used in working not so frequency, such as general machining and assembly workshop)

A6 (Used in much more frequency work, such as auxiliary hoisting in metallurgy and casting workshop)

A7 (Used in busy working and the hoisting of melted hot metal)

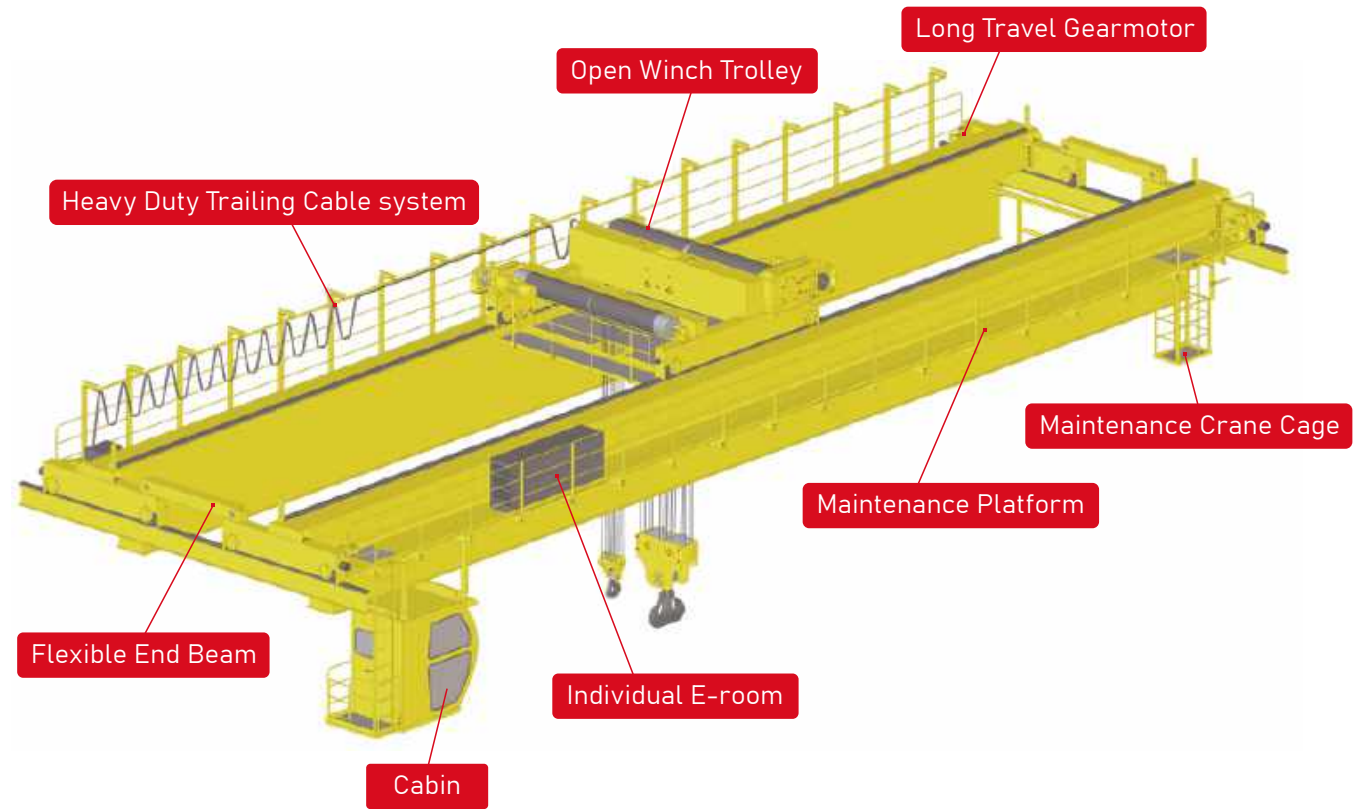
Supply Scope

- 3.1 Applied to materials handling between fixed span, and it's one of the most widely used crane with the largest number of varieties of different specifications.
- 3.2 Widely used in carrying, assemble and unassemble of general weights, and also can equipped with various special hoists for special operation.
- 3.3 Forbid to use in the conditions as easily combustible, explosive, corrosive (acid, alkali, plating, steam, etc.).

Conditions

Working ambient-25°C-+40°C, moisture ≤85%, altitude below 1000 meters, power supply 380V, 50Hz, 3phases (Adjustable according to customer's different requirement).

Structure



Bridge

Consists of main girder, end beam, walkway, railing, overhaul crane cage, cab and its platform, etc.

Main Girder

1. Double main girder, welded box girder and camber.
2. Steel material is similar to foreign steel type Fe37 or Fe52.
3. Main weld adopt Lincoln welding and nondestructive test.

End beam

1. Main end beam is rigid connection.
The middle of the two end beam is detachable connected by bolts.
2. The whole bridge is divided into two pieces for transportation.

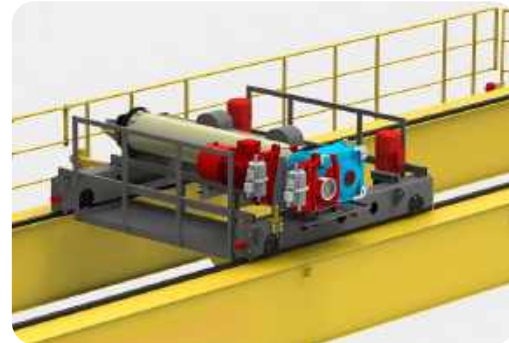


Trolley

Consists of trolley frame, lifting mechanism and trolley traveling mechanism, etc.

Trolley Frame

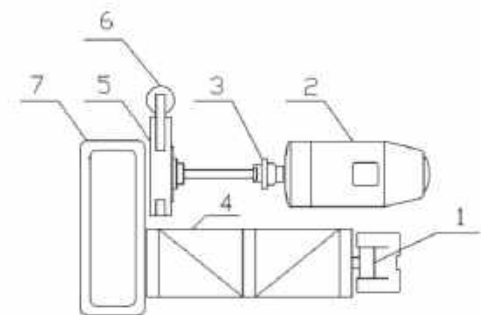
1. Welded of steel plate with high intensity and strong rigidity.
2. Equipped with lifting mechanism and trolley traveling mechanism.



Lifting Mechanism

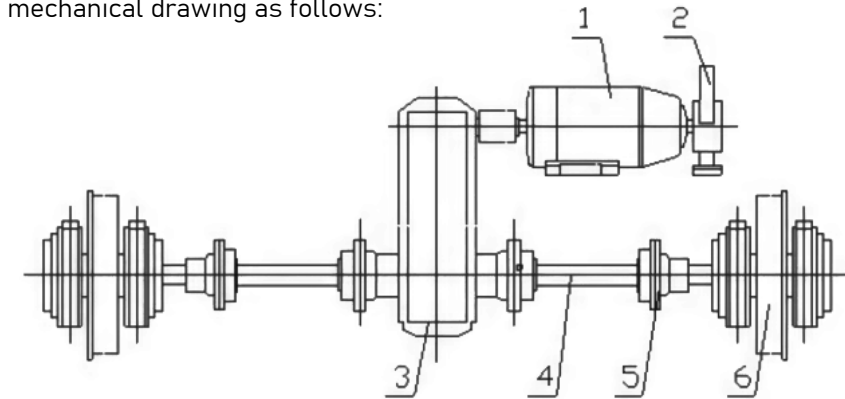
1. One set of independent driving device for single hook and two separate driving device for double hook (main and auxiliary).
2. Lifting mechanism working principle, through high speed rotating of YZR type crane special motor, and gear coupling drive involute gear reducer. Then the low speed shaft of reducer turn the wire rope drum.
3. In order to ensure the security and reliable of lifting mechanism, the brake is installed on the high speed shaft of reducer. The mechanical drawing as follows:

- | | |
|--------------------------------|---------------------------------------|
| 1. Main overload limitation; | 5. Main lifting brake wheel coupling; |
| 2. Main lifting motor; | 6. Main lifting brake; |
| 3. Main lifting gear coupling; | 7. Main lifting reducer |
| 4. Main lifting drum; | |



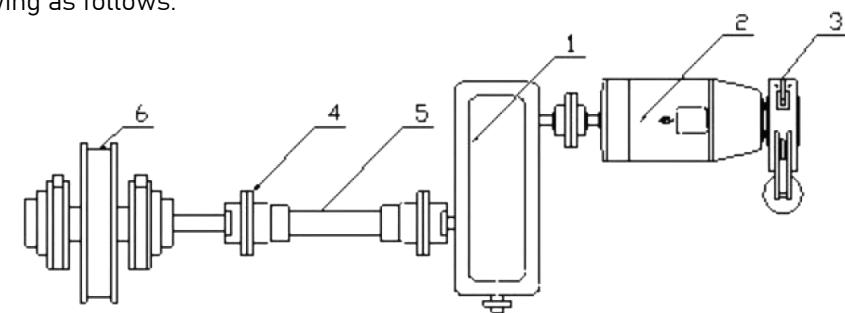
Trolley Traveling Mechanism

1. The low speed shaft of reducer connects to active wheel of trolley frame in the way of centralized driving. The motor adopt double-output gear and there is a brake on one end of it.
2. There are four wheels installed under the trolley. Two of them are active wheels and the others are driven wheels. Driving devices include 1. Motor; 2. Brake; 3. Reducer; 4. Compensating shaft; 5. Coupling; 6. Wheels, etc. are shown in the mechanical drawing as follows:



Crane Traveling Mechanism

1. There are four traveling wheels installed on each side of the two end beams. Two of them are active wheels and the others are driven ones. The driving device of active wheels is installed on the walkway.
2. The reducer adopts circular-arc gear. All of the mechanisms adopt rolling bearing with A.C. electromagnetic block brake.
3. Driving devices include 1. Reducer; 2. Motor; 3. Brake; 4. Coupling; 5. Coupling; 6. Wheels, etc are shown in the mechanical drawing as follows:



4. The connection of the mechanism parts all adopt gear coupling. In this way, it can work well by gear coupling compensated even there is an error caused in manufacture and installation.

Other Equipment

1. Bumper

The crane bumpers are installed on the both ends of the two end beams. The trolley bumpers are installed under the trolley frame, and usually polyurethane buffer. Also can choose according to customer's requirement.



2. Crane Conductor Wire Frame

In order to prevent the hook or wire rope collide with high voltage supply when trolley run at the limiting position, the crane conductor wire frame is installed on the end close to power supply under the two main girder of the bridge.

3. Crane Pantograph

The pantograph is installed on the bottom of main girder. The power line is installed in the three sets of current collector to supply the power of the whole crane.

Electrical System

1. Electric control box layout is reasonable, easy to repair.
2. Security trolley line or angle steel trolley line.
3. Security trolley line or angle steel trolley line.
4. Trolley moving' power is supplied by flat cable.
5. External cable are equipped with mark line number .
6. Safety sliding touch line with high conductive rate and low pressure drop; current collector with high speed.
7. Lifting and crane can be independently controlled; also can work separately or together.



Limit and Safety Switch

1. Crane traveling, trolley traveling and lifting mechanism are all equipped with limit switches to limit the travel distance of every mechanism.
2. The circuit will be cut off when the limit switch works, then the mechanism shut down.
3. The safety switch is installed on the access door of the walkway which lead the way from cab to bridge, and also on the railing which lead to end beam.

Operation Mode

1. Cab control and ground control.
2. The cable have open style, close style, can fixed on left or right.
3. The cab hangs under the sidewalkway of crane bridge close to end beam.
4. Ground control (wire or remote), without professional driver.
5. Choose according to customer's different requirements.
6. Special cabin for bridge crane or capsule driver room, open vision, comfortable operation.

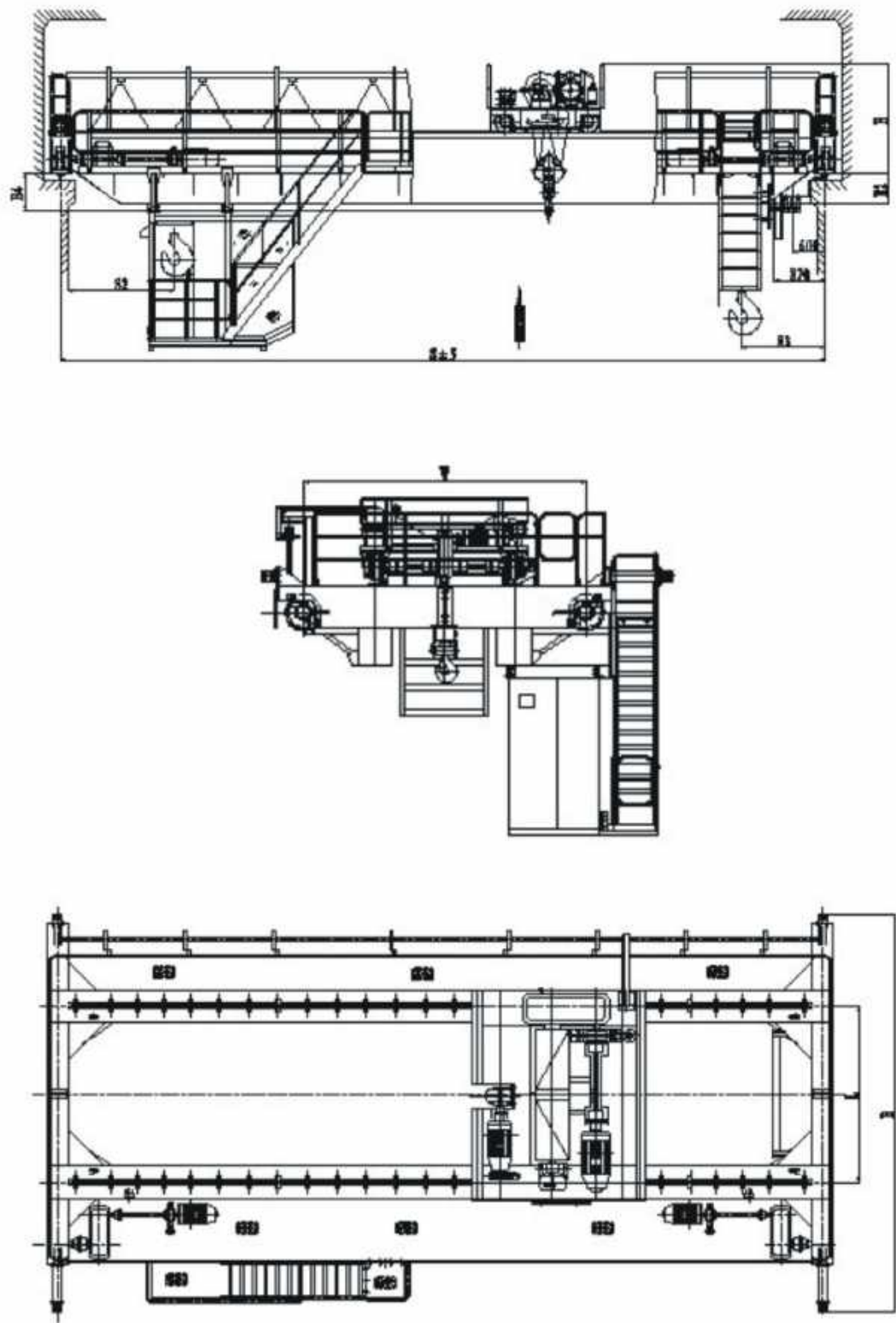


Optional Functions

1. Speed governing of each operating mechanism (1:10 or more)
2. Overload limiter, alarm display, load weighing and display
3. Height limiter
4. Hook spur changes of main and auxiliary hook for single trolley
5. Central lubrication
6. PLC control, fault detection, display records and print system



Crane Traveling Mechanism



Parameters

QD overhead Crane with Hook Cap. 50/10t											
Lifting Capacity	Main	t	50								
	Aux.		10								
Span	S	m	10.5	13.5	16.5	19.5	22.5	25.5	28.5	31.5	
Lifting Height			12								
			16								
Duty			A5								
Speed	Main	m/min	5								
	Aux.		8.5								
	Crab Travelling		38.5								
	Crane Travelling		75		75		72				
Limit Dimension	L1	mm	1030								
	L2		1720								
	L		1180								
	h		1280				1180				
	hl		330				230				
Main Dimension	H0	mm	875			910		1010			
	H1		2350					2450			
	H2		2606	2756	2908	3058	3108	3110	3310	3360	
	H3		176	326	478	628	678	680	880	930	
	B		7030			7295		7395		7575	
	K		2500								
	B1		230								
	W		1700					1900			
	W1		860					740			
Max.Wheel Loading		kN	159	167	175	182	189	197	204	211	
Power		kW	93.5					93.5			
Crane Rail Recommended			QU70								
Power Supply			50Hz 380V								

Parameters

QD overhead Crane with Hook Cap. 100/20t									
Lifting Copocity	Main	t	100						
	Aux.		20						
Span		m	13	16	19	22	25	28	31
Lifting Height	Main		18						
	Aux.		20						
Duty			A5						
Speed	Main	m/min	3.1						
	Aux.		7.2						
	Crab Travelling		33.9						
	Crane Travelling		61.7			61.7			
Limit Dimension	S1		985						
	S2		2300						
	S3		2650						
	S4		3965						
Main Dimension	H	mm	3434	3434	3436	3442	3442	3444	3446
	H1		950						
	H2		538	540	542	548	848	850	952
	H3		2958	2960	2962	2968	3268	3270	3372
	H4		1330	1330	1328	1322	1322	1320	1318
	K		4400						
	B		8868						
	b		310						
Max.Wheel Loading		kN	320	335	350	365	376	386	397
Total Power		kW	136			154			
Crane Rail Recommended			QU100						
Power Supply			Phase A . C . 50Hz 380V						

Safe Operation



1. Must not lift weights exceed the rated lifting capacity.
2. Strictly prohibit goods lifting overhead the human beings.
3. When lifting overhead,the hook position must not less than one person's height.
4. Strictly prohibit obliquely hanging and lift the objects buried in the ground.
5. Must not brake through motor's sudden reversal. Only permit when accident happens.
6. Must send warning signal before each operation.
7. Should consider the brake ability before lifting the weights close to the rated load in order to ensure safety.
8. Before driver leave the cab, the crane must be placed to the fixed park position, with nothing on the hook, every control handle at zero position and cut off the main switch.
9. Strictly obey the satety requirement of every factory, mines and the department concerned.

WEIHUA CRANE



Weihua Group set sail on the wave of the industry in 1988, Nowadays, Weihua Crane Group has 33 national and provincial R&D platforms, a research team of more than 1,200 people led by Zhang Tiegang and Ma Yushan, academicians of the Chinese Academy of Engineering, has undertaken 7 national major special projects, and owns more than 1,500 authorized patents.

Self-developed electrical anti-sway control technology is in the international leading position, 658 meters of ultra-high lifting created the world's largest lifting height of the world record, AICRANE intelligent control system to create a real lifting robots, new Chinese cranes redefine the concept of lifting, and promote China's lifting technology continues to be iterative update.

With the acceleration of globalization, Weihua Group sets its sights on the international market. With high-quality products and good reputation, Weihua crane products have successfully entered the international market, exported to more than 170 countries and regions, such as UAE, Thailand, Malaysia, Australia, etc., which has demonstrated the strong strength of Made-in-China on the international stage.

500+

500 HONORARY
TITLES

1000

1000 R&D
ENGINEERS TEAM

1200

1200 AUTHORIZED
PATENTS

130

130 TECHNOLOGICAL
ACHIEVEMENTS

CERTIFICATE

33 honors as National Enterprise Technology Center, National Technology Inspection and Testing Center, Henan Manufacturing Innovation Center.

