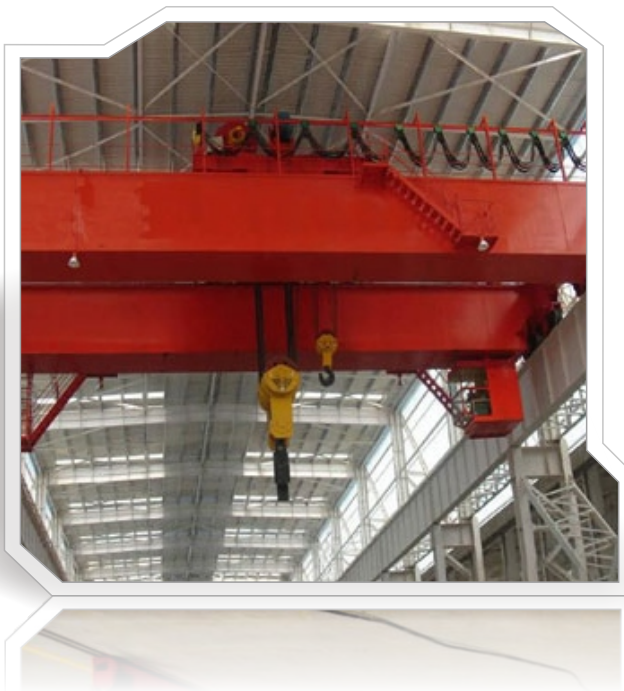




# YUANTAI CRANE

## QY Insulation Overhead Crane Specifications



- Compact structure, new style, beautiful outlooking
- Good in usability with long service life
- Bearing high capacity, high working class
- Flexible operating, safe and reliable

## ■ Part 1 Introduction

### ◆ Basic Parameters

Type:	QY
Lifting capacity:	5-50t
Span:	10.5-31.5m
Working class:	A6
Temperature:	-25~+40℃

### ◆ Overview

Insulation hook bridge crane are available to handle materials in the plants where electrolyse non-ferrous metals such as manganese, aluminum.

The crane consists of four main parts, namely, the box type girder, bridge structure, the travelling mechanism, the trolley and the electric equipment. During operation, in order to prevent the electric current on the electrified parts may be passed through the workplace to be handled to the crane and danger to the operator's life safe, soon the proper places of the crane reliable insulation devices are equipped.

All of cranes are used in heavy duty service, with double brake in the hoisting for ensuring safe operation.

All movement of crane are controlled from the cabin.

### ◆ Features

#### (1) In General

Compact structure, new style, beautiful outlook.

Good in usability with long service life.

Bearing high capacity, high working class.

Flexible operating, safe and reliable.

Widely used and competitive on quality and price.

#### (2) Main Body

Double girder, welding box beam, camber meet national standard;

Adopt high quality carbon steel, Q235B or Q345B; (similar as Fe37 or Fe 52);

Main welding submerged are welded automatically, nondestructive flaw detection;

The trolley consisted with motor, reducer, brake, coupling, the wheel, drum;

No asbestos brake pad or brake block, insert the card installed, safe and reliable;

The speed reducer has hard-toothed surface, compact structure, durable;

End girder is matched with rail buffer and rail clearance device;

Crane protection grade is IP54 or IP44;

F grade insulation, brake effectively and long service life.

#### (3) Electric System

Electric box layout is reasonable, easy to repair;

Security trolley line or angle steel trolley line;

External cable is equipped with mark line number;

Trolley moving power is supplied by flat cable;

And the conductor is I steel or C shape sliding line;

Safe touch line conductive rate is high, low pressure;

Set electric taxi speed is high;

Lifting and crane can be independently controlled and also can run separately or together;

Sliding smooth, and beautiful outlooking.

(4) Protection Devices

Outdoor crane are equipped with lifting mechanism, electrical control box and rainproof devices;

Set the trolley trip spacing device, anti-collision device;

Audible and visual alarm device;

And set platform, cover and protecting barriers.

(5) Operation Device

Ground control and cabin control;

Special cabin for bridge crane or capsule driver room, open vision comfortable operation;

The cable has open style, close style, can fixed on left or right;

The open direction includes end open, side open or top open;

The cabin has special small room and the capsule cabin;

Ground control has handle and remote control; do not need to set up special driver;

Users can choose as you need.

(6) Optional Function

All the mechanism speed regulation is 1:10 or bigger;

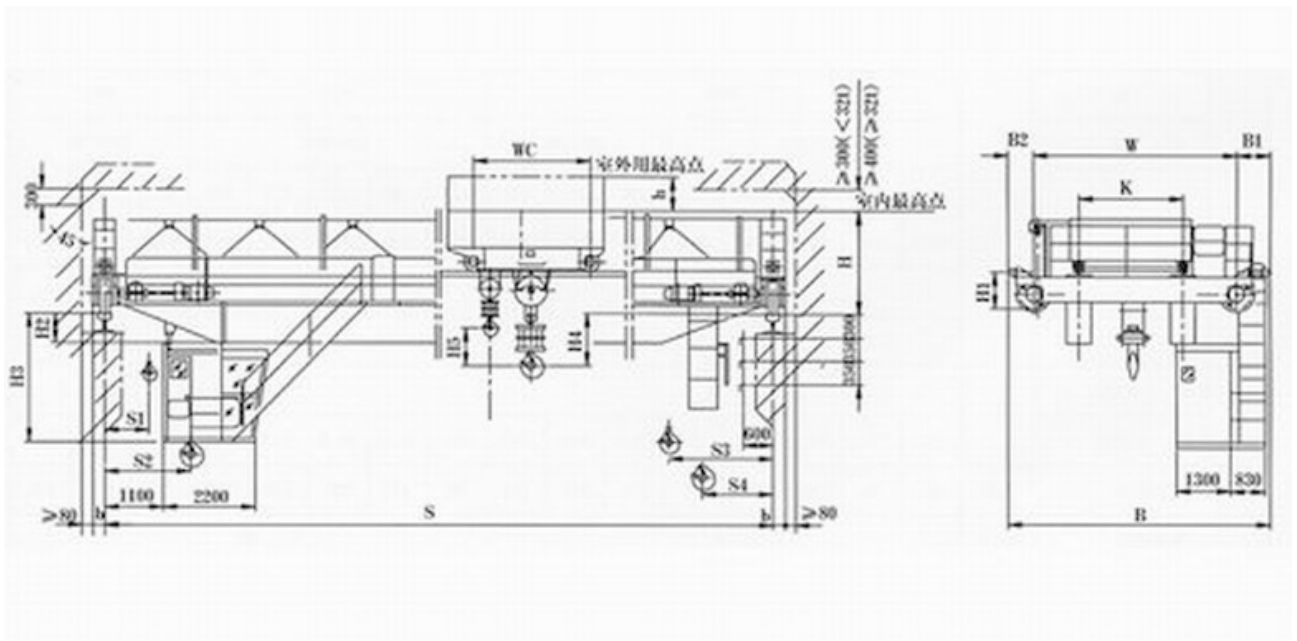
Overload limiter and alarm display, and the load of weighing and display ;

Height limiter device;

The change between main hook and aux hook on single trolley central lubrication;

PLC controlling and accident testing, record display and typing system.

## Part 2 Drawing



## Part 3 Parameters

QY Overhead Isolation Crane with Hook 5t									
Span	S (m)	10.5	13.5	16.5	19.5	22.5	25.5	28.5	31.5

Lifting height	m	16	16	16	16	16	16	16	16
Lifting speed	m/min	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Trolley speed	m/min	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
Crane speed	m/min	115.6	115.6	115.6	115.6	115.6	116.8	116.8	116.8
Lifting motor	kw	15	15	15	15	15	15	15	15
Trolley motor	kw	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

Total weight	kg	13600	15200	16900	19600	22000	26200	29300	32100
Max Wheel Load	KN	78	83	89	96	103	114	123	129
Track		P43	P43	P43	P43	P43	P43	P43	P43

Main dimension	mm	10.5	13.5	16.5	19.5	22.5	25.5	28.5	31.5
Rail top to main top	H1	1764	1764	1764	1764	1764	1764	1764	1764
Rail top to hook centre	H2	747	747	747	747	747	747	747	747
Wheel base	W	3400	3400	3400	3550	3550	5000	5000	5000
Crane width	B	5058	5058	5058	5208	5208	6028	6028	6028
Hook left limitation	S1	800	800	800	800	800	800	800	800
Hook right limitation	S2	1250	1250	1250	1250	1250	1250	1250	1250
Trolley gauge	K	1400	1400	1400	1400	1400	1400	1400	1400

QY Overhead Isolation Crane with Hook 10t									
Span	S (m)	10.5	13.5	16.5	19.5	22.5	25.5	28.5	31.5

Lifting height	m	16	16	16	16	16	16	16	16
Lifting speed	m/min	13	13	13	13	13	13	13	13
Trolley speed	m/min	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
Crane speed	m/min	115.6	115.6	115.6	116.8	117.8	112.5	112.5	112.5
Lifting motor	kw	22	22	22	22	22	22	22	22
Trolley motor	kw	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Total weight	kg	15200	17100	19900	21500	24200	28400	31800	35200
Max Wheel Load	KN	107	114	123	128	137	147	155	165
Track		P43	P43	P43	P43	P43	P43	P43	P43

Main dimension	mm	10.5	13.5	16.5	19.5	22.5	25.5	28.5	31.5
Rail top to main top	H1	1876	1876	1876	1876	1876	1926	1926	1926
Rail top to hook centre	H2	1282	1282	1282	1282	1282	1232	1232	1232
Wheel base	W	4050	4050	4050	4050	4050	5000	5000	5000
Crane width	B	5808	5808	5808	5948	5948	6388	6388	6388
Hook left limitation	S1	1050	1050	1050	1050	1050	1050	1050	1050
Hook right limitation	S2	1300	1300	1300	1300	1300	1300	1300	1300
Trolley gauge	K	2000	2000	2000	2000	2000	2000	2000	2000

Note: Control mode for cab operation



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**Tips:**

You can use the phone dimensional code recognition software to scan the right side of the two-dimensional code, to quickly and easily access our web site for more information.