



Crane Logistic & Transport Expert



Henan Yuantai Crane Machinery Import&Export Co.,Ltd.

Address: Henghua Business Building 712, Garden Road, Zhengzhou, Henan, China Tel: 86-371-65760776 Fax: 86-371-65760775

Web: www.ytcrane.com Email: yt@ytcrane.com

Crane Logistic & Transport Expert



Electric Single Circler Grane

Specification

YUANTAI CRANE
Eucrything is for Customer-Yuantai Crane

Henan Yuantai Crane Machinery Import&Export Co.,Ltd.





Part 1 Introduction

Overview

- 1.1 Simple and reasonable structure, reasonable, high rigidity
- 1.2 Good craftwork, convenient manufacturing, Strong versatility
- 1.3 Small size, work class is not very high
- 1.4 It has constant speed and variable frequency speed regulation, stable travelling
- 1.5 User can choose according to different requirements.

🚄 Supply scope

Yuantai supply the single girder crane with lifting capacity: 1~20t, span:7.5~28.5m, lifting height 1~30m, low work class A3, A4. We also design and manufacture the nonstandard crane according to users' demanding.

Main Application

- 3.1 Designed and made according to JB/T 1306 Electric Single-girder Crane
- 3.2 The matched electric hoists have CD1 model, MD1 model, etc.
- 3.3 It is a light & small lifting equipment with running on rail
- 3.4 Hoisting goods in the factory, warehouse, stockyard
- 3.5 Banned to use in such dangerous environment as easily combustible, explosive, etc

Working atmosphere and condition

This crane is used in ambient temperature of -25°C~+40°C, humidity ≤85%, elevation under 1000m, power supply is 3-ph, 380V,50HZ (can change as user demand).

Classification and product specifications

single speed lifting single-girder crane and double speed lifting single-girder crane

Tag: if a single speed lifting single-girder crane has lifting capacity 5t, span 10.5m, it can be written as LD5t-10.5m.

Main Structure and Feature

It mainly has three parts: mechanism part, (metal structure and crane travelling parts), electric hoist(lifting mechanism), electrical equipments(safe protection, operation).

Mechanism Part

- 1. Single girder, made by the high quality I steel and high quality U-shapped slot into composition
- 2. Material Q235B or Q345B(similar as Fe37 or Fe52)
- 3. End girder is welded with rectangular tubes or good steel
- 4. Main girders connected with bolts
- 5. Crane travelling use respective drive
- 6. QS trinity-drive system or traditional drive by motor and reducer
- 7. Assembly and adjustment is rapid, simple
- 8. Compact structure, small and light
- 9. Use LD single girder special wheel, light and strong versatility
- 10. Stable travelling, effective brake, long service life
- 11. Choosing according to different needs









Part 1 Introduction

Electric Hoist

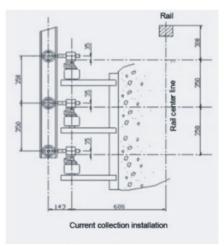
Same as electric hoist's

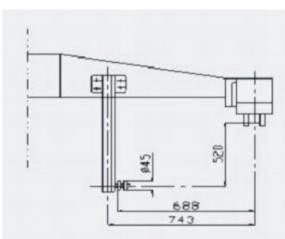
Electrical Equipment

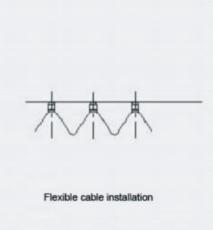
- 1. Trolley conductor or angle steel conductor power supply
- 2. Hoist and crane Separately control, move separately or together
- 3. Flat cable or special cable power supply for electric hoist
- 4. Galvanize slide and cable trolley, smoothly moving, appearance is aesthetics
- 5. Electrical non-contact speed regulation control module
- 6. Operation, hoisting, the point start are very smoothly
- 7. Power leading has both methods of current collector and flexable cable











- 1. Outdoor cranes are equipped with lifting mechanism, electrical control box and rainproof devices
- 2. Overloading alarm, two grade of top dashing proof protection
- 3. Crane buffer
- 4. Anti-collision, sound and light alarm devices
- 5. Circuit self-check protector
- 6. Flow phase lack protection





- 1. Ground control and cabin control
- 2. The cabin has open style, close style, can fixed on left or right
- 3. The open direction include end open, side open or top open
- 4. The cabin includes special small room for single-girder and capsule cabin
- 5. Ground control has handle and remote control, do not need to set up special driver
- 6. Users can choose as you need





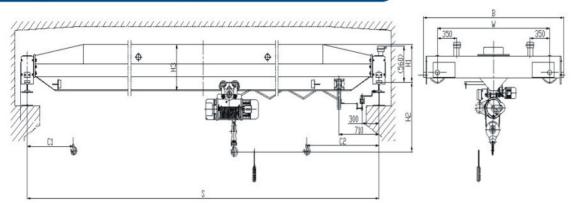




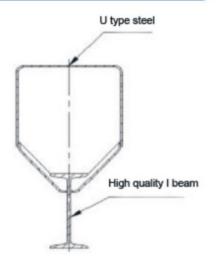


Part 2: Drawing

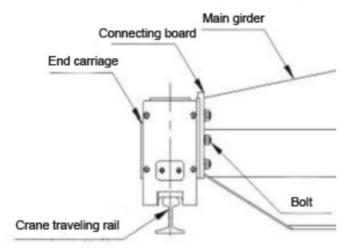
Overall Organization Drawing



Girder section drawing



Connecting drawing between main and end girder





Part 3: Tech. Parameter

LD Type Single Girder	Electric	Crane			<i>w</i>		1t			
span(LK)	m	7.5	10.5	13.5	16	3.5	19.5	22.5	25.5	28.5
Lifting speed(slow)	m/min	8 (0.8)								
Trolley speed	m/min	20、30								
Crane speed	m/min	20、30(ground control);45、60(cabin control)								
Lifting motor	kw	1.5/0.2								
Trolley motor	kw	0.2								
Ground control:										
Total weight	t	1.67	1.96	2.19	2.63	3.02	3.49	4.39	5.76	3
Max. wheel load	KN	8.9	9.8	10.5	11.7	12.7	13.9	16.2	19.6	}
Min. wheel load	KN	3.9	4.6	5.2	6.3	7.2	8.4	10.6	14.1	
Main dimension	mm	7.5	10.5	13.5	16.5	19.5	22.5	25.5	28.5	5
Wheel tread to main girder top	H1	490	490	490	490	530	580	660	745	i
Wheel tread to hook centre	H2	910	910	910	955	970	970	990	1010	כ
Main girder height	НЗ	550	550	550	595	650	700	800	900	ı
End girder wheels'distance	w	2000	2000	2000	2500	2500	3000	3500	4000	0
End girder lenth	В	2500	2500	2500	3000	3000	3500	4000	4500	כ
Hook left limitation	C1	796	796	796	796	796	796	796	796	;
Hook right limitation	C2	1274	1274	1274	1274	1274	1274	1274	127	4





Part 4: Easily Damaged Parts

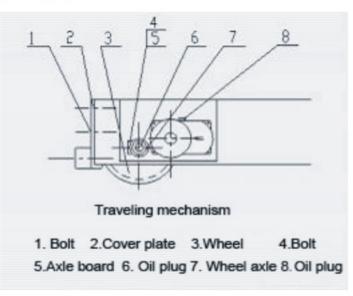
No. ₽	Name.	Material.	Remark∘ .
1.0	gear wheel axle	20CrMnTi	٥
3₽	gear ring	40Cr	٠
3₽	Initiative wheel	45₽	ų.
4.∘	Passive wheel	45₽	ę.
5₽	Taper brake ring	ę	۰
	Plane brake ring		

Part 5: Usage

- Test crane: without loading, connect power, inspect all the travelling machanism and safe device, make them readywitted and acurrate, safe and reliable.
- Adjust travelling and lifting limitor
- Don't overload
- > Don't lift loading in inclined girder direction
- Forbiden to use it in fire, bombing, corrosive atmosphere, and can't lift molten metal or toxic, inflammable and explosive objects.

Part 6: Maintenance

- Users need to inspect the crane, especially the connecting between beam end girder and all bolts
- lubrication (showing as picture) :
 - 1. Get out of oil plug 6 and inject albany grease (GB491-1987) to lubricate wheel bearings. suggestion: change oil every three monthes, at 1/2~1/3 of the bearing volume.
 - Get out of oil plug 8 and inject sodium soap grease (GB492/T-1989). Suggestion: change the oil every half year.
 - Often daub lubricating grease on open gear (GB491-1987) to ensure it oiling.



Inspect wheel, must no fissure, indentation and excessive wear. If the flaw is 3mm or more, shoule be not used more and replaced by new wheel. Method: loosen bolt 1, take down cover plate2, get down bolt 4 and axle board 5, pull down wheel axle 7, then replace the wheel 3. When installing, reverse the order.



YUANTAI CRANE

Everything is for Customer-Yuantai Crane



Network spread all over the world Service nearly around

Henan Yuantai Crane Machinery Import&Export Co.,Ltd.

Address: Henghua Business Building 712, Garden Road, Zhengzhou, Henan, China

Tel: 86-371-65760776 Fax: 86-371-65760775 Web: www.ytcrane.com Email: yt@ytcrane.com

