



HENAN CRANE CO., LTD

56 YEARS GOLDEN CRANE GROUP / EXPORTED TO OVER 100 COUNTRIES



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Yufei Heavy Industries Group, located in XinXiang City of HeNan Province and covering an area of 1,330,000 Square meters, is mainly specialized in manufacturing machinery equipment. There are 4000 employees including 348 in management, 361 in technique and 42 with senior technician title. The Group has two prominent brands "Yufei" & "Tengsheng". It has 6 subsidiaries which are Henan Crane Co. Ltd, Xinxiang Hoisting Equipment Co. Ltd, Henan Shi Tong Electric Automatical Control Co. Ltd, Henan Yufei Concrete Pile Co. Ltd, Xinxiang Plastic Machinery Co. Ltd etc. There are over 100 representative branches across China.

The Hoisting Equipments with "Yufei" and "Tengsheng" brands has taken up more than 90% of the market share in national rocket and satellite launching project. Yufei Heavy Industries Group is the only one hoisting equipment manufacturer for the military projects. There are 26 advanced automatical production lines with manufacturing facilities over 1000 sets and 40 sets top-quality inspecting equipments. Patent technology and special crane with high safety characteristic are the Group's advantages. Our annual production capability reaches 40 sets port machinery and 100,000 tons hoisting machinery for all

kinds. Shipbuilding gantry crane, portal crane, bulk material ship loader, special military-use crane and general-use crane are widely used in aviation, nuclear power, hydro-power, port, steel metallurgical industry, military industry etc. Our products are popular in domestic and overseas markets, over 30 countries such as Russia, UK, Japan, Spain, Kazakhstan, Brazil, Thailand, Philippines, Pakistan, Iran, South Korea, Vietnam, Peru, Zambia etc.

"Tengsheng" brand by Xinxiang Hoisting Equipment Co. Ltd is national wide-renowned brand in crane industry. Xinxiang Hoisting Equipment Co. Ltd was founded in 1955 and it is a professional crane manufacturer nominated by former Machine Building Ministry. Meanwhile, it is the first manufacturer to produce crane by designing and manufacturing in central plain of China. Our products are awarded "Top Ten" and "Henan Well Known Brand". We are also certified with qualification such as Second Grade Security Certificates by National Defense Audit Commission, Arm Equipment Research and Development Production Certificates by Science & Industrial Commission of National Defence, Equipment Manufacturer Registry Certificate awarded by PLA General Armament Department. Its products are mainly divided into 8 types such as special military-use crane, metallurgical crane, special function crane, nuclear power and hydro-power crane. Many rank the first in domestic industry and belong to the top level.

"Yufei" brand by Henan Crane Co., Ltd is one of the top ten brands in hoisting industry of China. Shipbuilding gantry cranes 240 ton, 130 ton and 80 ton with "Yufei" brand have been exported to Spain (Chinese shipbuilding crane first exported to EU countries) under the supervision of Bureau Veritas. The container gantry crane used by Dalian Harbour Bureau had been audited by provincial technology agency. Its products are mainly divided into large-scale equipment, portal equipment and general-use crane.

Yufei Group applies 6S administration and has been certified with ISO9001, ISO14001, OHSAS18001. We have been entitled National Employment and Social Security Outstanding Private Enterprise, National Standardization and Advanced Management Pilot Enterprise, National Credit Enterprise, China Top 500 Machinery, National Important Project Nominated Better Supplier, China Well Known Mark, Military-Use Crane National Standard-setting Enterprise, Henan Top 50 Equipment Manufacturer, Henan Hi-Tech Enterprise, National Standard Act AAAA Enterprise, Henan AAA Credit Enterprise, Henan Advanced Management Enterprise, Henan Top-Quality Enterprise.

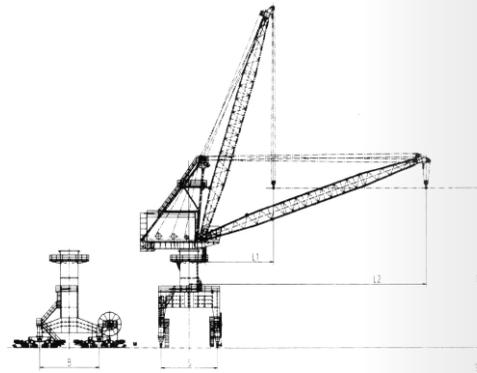
Yufei Group has built a new Industrial Park from high starting point-view, which covers an area of over 1,000,000 square meters with the investment reaches 830 million RMB. The total construction area could reach 430,000 square meters. With Chinese largest single plant of 80,000 square meters. Industrial park has the features as design research and development, manufacturing, inspection etc. Through the professional production, intensive distribution, process-control, standardized inspection, it has formed a complete industrial chain, the characteristic high concentration manufacturing base, logistics distribution centers, inspection and testing center.

Qualifications

More than 120 companies have been the honorary title



Single jib portal crane



Single jib portal crane generally includes the following units: steel frame, lift mechanism, slew mechanism, crane travel mechanism, spreader device (grad, container spreader, magnet, and hook), electrical equipment and other accessory equipment for safety. Steel structures include jib and A-frame, slew platform and gantry frame. Single jib portal crane is extensively applied to dock's bulk cargo (coal, ore and so on) and other cargo ship (lorry) loading/unloading as well as slipway repair.

Referenced standards: GB17495-1998 Harbor portal crane technical specifications, JT400-1999 harbor portal crane safety specification. GB3811-2008 Crane design standards, GB6067-85 Crane safety specification, ISO standards, FEM standards and JIS standards.

NO	TYPE	CAP	LUFFING		HOIST HEIGHT		SPAN × BASE	SPEED				MAX WHEEL LOAD	Capability	SHIP
			MAX	MIN	UP	DOWN		HOIST	LUFFING	SLEWING	TRAVEL			
1	BP209	2	9	4	6	6	4.5 × 4.5	18	15	1.3	15	40	22	200
2	BP315	3.2	15	5.6	12	8	6 × 6	30	20	1.5	15	80	42	500~2500
3	BP322	3.2	22	7	14	8	6 × 6	40	20	1.5	15	90	58	1000~3000
4	BP515	5	15	6	12	9	6 × 6	40	24	1.5	15	120	120	500~1500
5	BP518	5	18	6	15	9	6 × 6	50	24	1.7	15	< 200	125	1000~3000
6	BP520	5	20	7.5	16	18	6 × 6	58	20	1.6	15		138	1000~3000
7	BP522	5	22	8	15	12	10.5 × 10.5	50	20	1.4	15	142	125	1000~3000
8	BP525	5	25	9	20	10	6 × 7	4.6	22	1.4	15	< 200	115	5000
9	BP 1020	吊钩10 抓斗5	20	7	15	10	10.5 × 10.5	38	20	1.5	15	115	103	5000
10	BP 2020	20	20	7	16	10	10.5 × 10.5	40	25	1.6	27	165	145	3000
11	BP-1025	吊钩10 抓斗5	25	8	20	12	10.5 × 10.5	50	48	1.6	27	185	132.8	5000
12	BP-1625	吊钩16 抓斗10	25	8	20	12	10.5 × 10.5	56	48	1.6	27	185	305	5000
13	BP-1627	吊钩16 抓斗10	27	10	22	15	10.5 × 10.5	56	50	1.6	27		305	10000
14	BP-1030	吊钩10 抓斗5	30	11	25	15	10.5 × 10.5	56	48	1.6	27	275	305	10000

Continuous Ship Loader

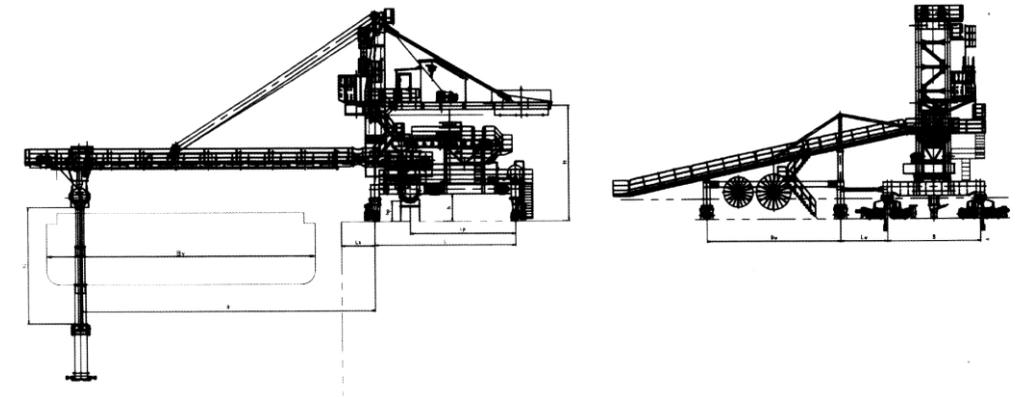


Continuous ship loader is widely applied in docks to load ships Of bulk cargoes such sa coal, ore, grain and Cement etc. Ship loader structure is mainly composed of steel structure, jib bell conveyor, feeder trpper, luffing Mechanism, slew mechanism, travel mechanism, spray system, chute, electrical system, necessary safety related components and accessory devices. Ship loader jib could slew, luffing, prolong and shorten itself. And chute could also prolong and shorten itself in up and down direction.

Referenced criterion and standards of ship loader are as follows. GB6067-85 lifting equipment safety regulation. GB381 1-2008crane design criterion, ISO, FEM and JIS.

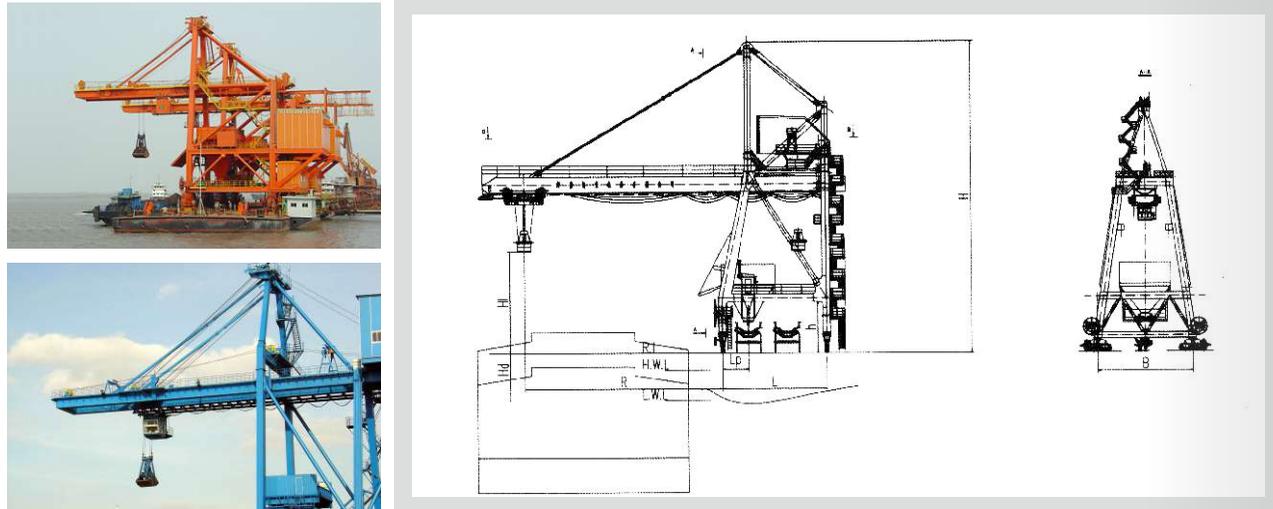
In order to meet requirements of shod length shore dock. our company designed an economical type of ship loader to swing in direct line and reduce dock shore length greatly.

LS ship loader is an environment friendly type and swing in line to handle bulk cargoes. This type of product has the technical characteristics of inverter, PLC and CMMS. and can avoid dusty work condition which is on domestic advanced level.



Parameters	MS30	MS100	MS180	unit
Rate productive capacity	300	1000	1800	t/h
Limit capacity	360	1200	2000	t/h
Bulk cargo	Coke	Bulk Cement	Coal	
Ship size	5000	5000	5000	DWT
Width of belt conveyor	1000	1400	1400	mm
Speed of belt conveyor	2.5	2.42	3.5	m/s
Chute extending length	8.15	19.5	19.5	m
Chute extending length speed	9.3	4	3.6	m/min

Grab bucket ship unloader



Grab bucket ship unloader is a special heavy duty equipment with satisfactory productivity and is widely applied at docks to unload bulk cargo ship of different sizes. Grab bucket ship unloader structure is mainly composed of steel structure, grab bucket lift and open and closing mechanism, trolley traverse mechanism, luffing mechanism, travel mechanism, machine cabin, elevator, grab bucket, spray system, electrical system, necessary safety related components and accessory devices. PLC and CMMS fault monitor system could be adopted in this type of product, And electronic anti-sway system could be provided at customer request.

Referenced criterion and standards are as follows: GB3811- 2008 crane design criterion, GB6867- 85 lifting equipments safety regulation, ISO, FEM and JIS.

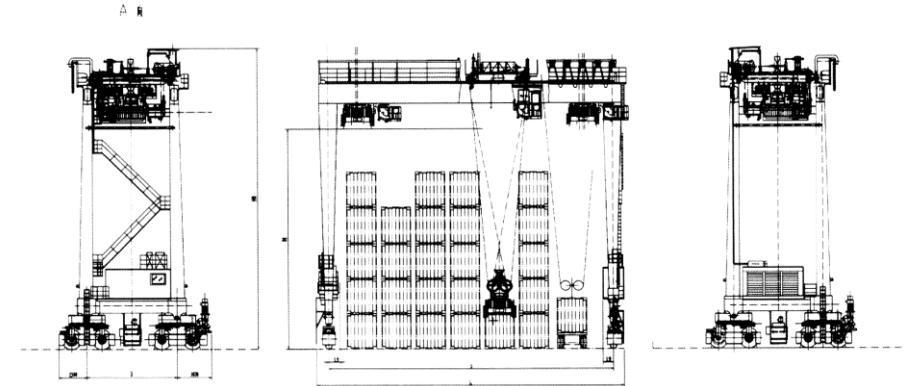
Rate production capacity	1250	t/h
Limit capacity	1400	t/h
Bulk cargo	煤Coal	
Ship size	50000	DWT
Hoisting capacity	32	t
Span	22	m
Base	18	m
Max.out reach of grad	Out rail waterside	m
	In rail waterside	
Height of grad	Above Rail	m
	Below Rail	
Luffing angle of boom	0-80	°
volume of hopper	75	m
Hoisting speed	110~150	m/min
Traverse speed	180	m/min
Traveling speed	22	m/min
Cabin traveling speed	20	m/min
Width of belt conveyer	1600	mm
Speed of belt conveyer	2.5	m
Boom Hoisting Time, One Way	7	min
Max.working Load of Wheel	350	kN
Crane Rail Recommend	QU100	
Motor capacity	1240	kW
Power supply	H.V.cable reel 10kV 50Hz	

Rubber Tyre Container Gantry Crane



Rubber tyre quayside container gantry crane(RTG)generally includes the following units: steel frame, hoisting mechanism, minimum slewing mechanism, and spreader anti-shaking mechanism, crane travel mechanism, turning mechanism, trolley traverse mechanism, container spreader. diesel generating sets. electrical equipment and other accessory equipments for safety. Inverter, PLC and CMMS(fault monitor system)are adopted by us.

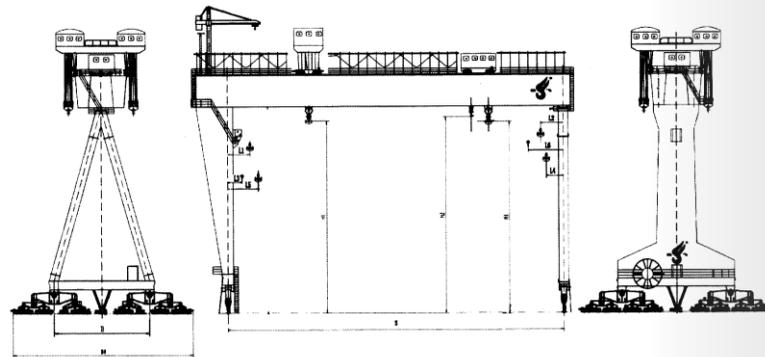
Referenced standards: GB/T15362- 92 rubber tyre container gantry crane technical specification. GB/T/4783—94 rubber tyre container gantry crane test method, ISO standards, FEM standards and JIS standards.



(The Technical Specification is for reference.Spreader is for container20'、40'and45')

Capacity of Spreader		t	30.5	35	40.5	
Working Duty			A6	A6	A6	
Span (m)		S	23.47	23.47	23.47	
Base (m)		B	7.4	7.4	7.5	
Lifting Height (m)		H	15.4	15.4	18.2	
Speed	Hoisting	With Full Load	m/min	12	12	23
		Only with Spreader		24	24	46
	Traverse			70	70	70
	Traveling	with Full Load		45	45	45
		Only with Spreader		90	90	90
Main Dimensions (mm)		L	25370	25370	25395	
		H1	22030	22334	25134	
		L1	905	905	905	
		L2	950	950	975	
Total Power of diesel motor		kW	~305	~305	~400	
Total power of generator		kVA	~518	~595	~720	
Max.working Load of Wheel		kN	273	287	320	

Shipbuilding Gantry Crane



The structure of ship building gantry crane has single girder type and double girder type. Ship building gantry crane steel structure is composed of gantry frame, up trolley, lower trolley, gantry travel mechanism, maintenance crane, elevator and electrical. Accessory safety related devices such as rail clamp, anchor, wind proof and lighting proof are Provided. And traveling deviation correcting system is provided for longer span Crane.

Referenced criterion and standards are as follows. GB/T8504- 95 repair&building shipyard gantry crane technical criterion, GB/T1 4406- 93 general gantry crane, GB6067 lifting equipments safety regulation. GB381 1- 2008 crane design criterion.

Type	t	2 × 25t+50/10t	2 × 50t+75/20t	2 × 75t+80/20t	
Total Lifting Cap	t	100	150	200	
Turning Over Cap	t	50	100	150	
Working Duty			A5		
Span (m)	s	50	60	80	
Lifting Height (m) Above Rail/Below Rail	H1	30/4	40/5	45/5	
	H2	30/4	40/5	45/5	
	H3	32	42	47	
Speed	Hoisting	Up Trolley	0.75~7.5; 0.75~15 (Light load)	0.6~6 0.6~12 (Light load)	0.5~5 0.5~10 (Light load)
		Lower Trolley Main Hook	0.75~7.5; 0.75~15 (Light load)	0.6~6 0.6~12 (Light load)	0.5~5 0.5~10 (Light load)
		Lower Trolley Aux. Hook	12	15	15
	Up Trolley Traversing	0.6~30~45	0.6~30~45	0.6~20~30	
	Lower Trolley Traversing	0.6~30~45	0.6~30~45	0.6~20~30	
	Traveling	0.6~20~30	0.6~20~30	0.6~20~30	
Main Dimensions (mm)	L1	3000	3600	4000	
	L2	3000	3600	4000	
	L3	2700	2500	3500	
	L4	3500	5000	5000	
	L5	4200	5500	5500	
	L6	1800	3000	3000	
	B	13500	14500	18000	
BO	24000	25000	32000		
Total Power	KW	~350	~410	~460	
Max.working Load of Wheel	KN	350	430	480	
Crane Rail	QU80~QU120				
Power Supply	(3-phase AC) 50Hz 380v				

Beam Fabricating Gantry Crane



Beam fabricating gantry crane is general type of gantry crane which is widely used in bridge engineering of passenger high-speed railway. This type of crane could be used to lift and move beams in the processes of lowering beams down from production platform and of moving them up on to flat beams car conveniently. It could also lift beams onto bridge piers directly when its legs are lengthened. There are several models such as 450t, 225t types and so on. 2 sets of crane are combined to move beams to move or to lift for beams installation.

This type of gantry crane is composed by load bearing steel structure, lift trolley, crane travel mechanism and electrical control system. The steel structure was welded by high strength low alloy steel. Lifting mechanism was composed by winding system through ratio pulley. The triad driven crane travel mechanism was composed by inverter motor and cycloidal pin-wheel reducer. The electric system control is through PLC. This type of crane has beautiful outlook, each component was independent that can be easily and quickly assembled and disassembled.

Standards followed:

GB/T 14406-93 (General type Gantry Crane)

GB 6067-85 (Safety Rules for Lifting Machinery)

GB 3811-2008 (Design Rules for Lifting Machinery)

International and European standards such as ISO, FEM etc were also referenced

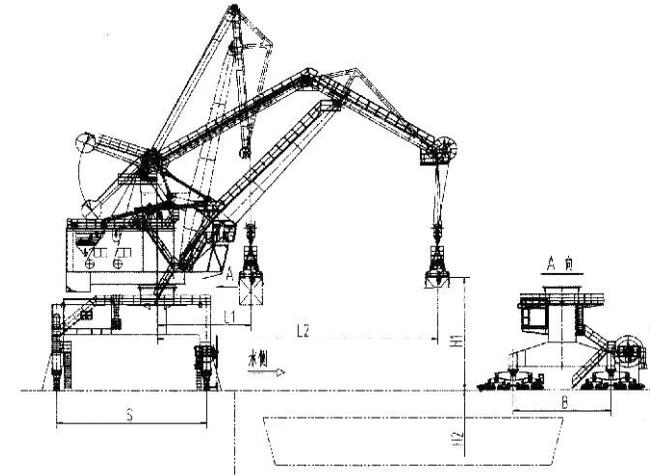
Four-Link Type Portal Crane



Four-link type portal crane has been extensively applied to loading and unloading at port and materiel handling at dockyard and metallurgy industry. The main structures are composed of steel frame, lifting mechanism, luffing mechanism, slewing mechanism, crane travel

mechanism spreader device (grab, container spreader, and hook and electromagnet disk), electrical equipment and other accessory equipments for safety. Steel structures include jib and A-frame, slewing Platform and gantry frame.

Referenced Standards: GBI 7495- 1998 Harbor portal crane technical specifications, GB6067-85 lift equipments safety specification, GB381 1-2008 crane design standards, ISO standards, FEM standards and JIS standards.



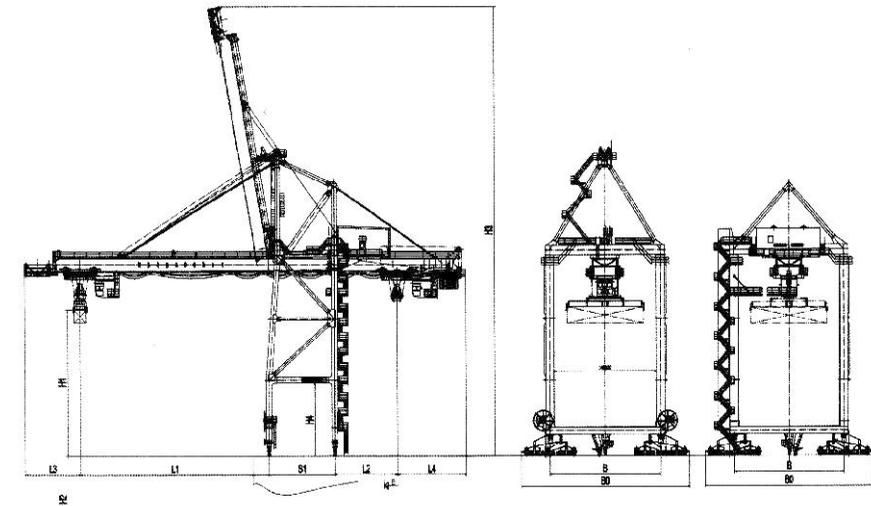
NO	TYPE	CAP.	LUFFING		HOIST HEIGHT		SPAN × BASE	SPEED				MAX WHEEL LOAD	Capability	SHIP
			MAX	MIN	UP	DOWN		HOIST	LUFFUNG	SLEWING	TRAVEL			
1	MQ0525	5	25	8	12	9	10.5 × 10.5	40	24	1.5	25	180	280	19000
2	MQ0533	5	33	9.5	15	9	10.5 × 10.5	50	40	1.5	25	210	300	30000
3	MQ1025	10	25	8	15	9	10.5 × 10.5	50	50	1.5	25	220	330	19000
4	MQ1033	10	33	9.5	20	12	10.5 × 10.5	50	40	1.4	25	185	345	30000
5	MQ1625	16①	25	8.5	20	12	10.5 × 10.5	50	40	1.5	25	240	325	19000
6	MQ1633	16②	33	9.5	28	15	10.5 × 10.5	60	40	1.5	25	250	345	30000
7	MQ2533	25③	33	9.5	28	15	10.5 × 10.5	60	50	1.5	25	260	435	30000
8	MQ4033	40④	33	9.5	28	16	10.5 × 10.5	50	50	1.41	25	260	560	30000
9	S4070 K10	40	65	24	45	13	10.5 × 18.5	15	17	0.26	26	260	400	100000
		6.3	70	28.5	45	13		25						
10	S4530 K16	45	14	10	12	36	16 × 10.5	30	40	1.2	26	300	530	30000
		35	30	10	12	36								
11	S5035 K10	50	35	11.5	40	0	12 × 10.5	7.5	12.8	0.4	25	250	250	30000
		10	38	14	40	0		15						
12	S8035 K10	80	35	11.5	40	0	12 × 10.5	6	12.8	0.4	25	250	320	30000
		10	38	14	40	0		15						

Quayside Container Crane



Quayside container crane(STS& QC) generally includes the following units: steel frame, luffing mechanism, inclination mechanism, crane travel mechanism, trolley traverse mechanism, machinery house, elevator, container spreader, electrical equipments and other accessory equipments for safety. According to different types Of trolley, quayside container crane has three trolley driving types as wiretow, semi-tow and motor driving, Quayside container crane could be provided with PLC system and CMMS, which has automatic monitoring and diagnosing functions. At the same time, Electronic anti-swaying system can be provided according to user request.

Referenced Standards: GB/T1 5361-91 quayside container crane technical conditions. GB/T15360-91 quayside container cranes test methods, GB6067-85 crane safety rules. GB381 1-2008 crane design standards and ISO standards, FEM standards, JIS standards and so on.



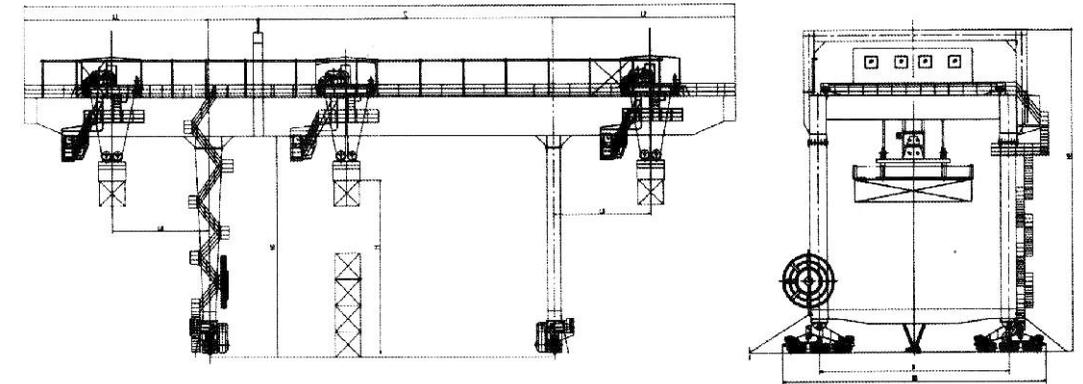
Capacity of Spreader		t	30.5	35	40.5	50	
Capacity of Hook		t	38	45	50	60	
Working Duty			A7	A7	A8	A8	
Span (m)		S	10.5	10.5	22	22	
Base Distance (m)		B	16.5	17.63	16	16	
Lifting Height (m)		H1	22	22	28	38	
Above Rail/Below Rail		H2	16	10	14	14	
Speed	Hoisting	With Full Load		46	30	50	70
		Only with Spreader		120	60	120	150
	Travese Traveling			150	120	120	220
				45	25	45	45
Boom Hoisting Time, One Way		min	7	6	5	5	
Main Dimensions (mm)			L1	38000	30000	38000	55000
			L2	10000	10000	11000	18000
			L3	4000	8850	6000	6300
			L4	4000	11000	15000	20000
			H3	14000	11000	12600	16500
			H4	-75670	-68100	-80000	-9500
			B0	25600	17630	25600	26500
Total Power		KW	~650	~500	~920	~1700	
Max.working Load of Wheel		KN	300	260	400	450	
Crane Rail			P50	P50	QU80	QU100	
Power Supply			(3-phaseAC) 50Hz 380v				

Rail Mounted Container Gantry Crane



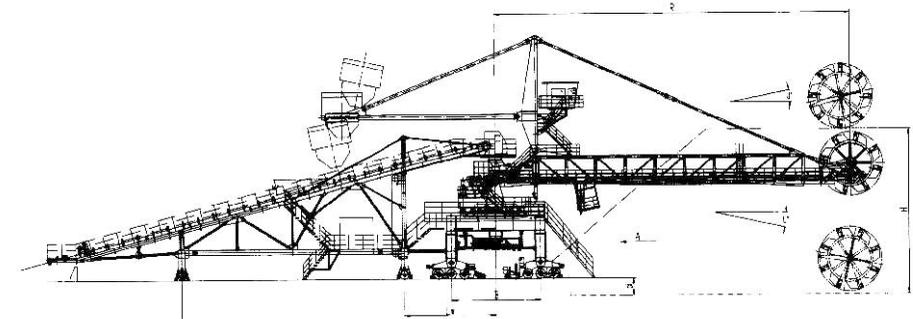
Rail mounted container gantry crane(RMG) generally includes the following units: steel frame, hoisting mechanism, minimum slewing mechanism, spreader anti-shaking mechanism. Crane travel mechanism. Trolley traverse mechanism, container spreader, electrical equipments and other accessory equipments for safety Inverter, PLC and CMMS (fault monitor system) are adopted by us.

Referenced standards: GB/T1 9683-2005 rail mounted container gantry crane, JT/T566- 2004 rail mounted container gantry crane safety rules, ISO standards, FEM standards and JIS Standards.



Capacity of Spreader		t	30.5	35	40.5	50	
Working Duty			A6	A6	A6	A6	
Span (m)		S	35	35	35	35	
Base (m)		B	16	16	16	16	
Lifting Height (m)		H	15.4	15.4	18.2	18.2	
Speed	Hoisting	With Full Load	12	12	18	18	
		Only with Spreader	24	24	36	36	
	Traverse		m/min	60	60	70	70
	Traveling			45	45	45	45
Main Dimensions (mm)		L ₁	10500	10500	10500	10500	
		L ₂	11500	11500	11500	11500	
		L ₃	5500	5500	5500	5500	
		L ₄	7500	7500	7500	7500	
		L	57000	57000	57000	57000	
		H ₁	16750	16750	19600	19600	
		H ₂	25000	25100	27900	28105	
B ₁	20350	20350	25600	26500			
Total Power		kW	~200	~230	~255	~300	
Max.working Load of Wheel		kN	260	260	280	300	
Crane Rail			P50	P50	P50	QU80	
Power Supply			3-phase AC 50Hz 380V				

Stacker -Reclaimer



Stacker and reclaimer is widely applied to stack and reclaim bulk Cargoes(coal, ore etc). Stacker and reclaimer is mainly composed of steel structure, jib belt conveyer, feeder tripper, luffing mechanism, slew mechanism, travel mechanism, spray system, wheel bucket device. Electrical system, necessary safety related components and accessory devices. Stacker and reclaimer jib could slew, luffing, prolong or shorten it self. And end turning bucket is material grab device.

Types of stacker and reclaimer are divided into stacker, wheel bucket reclaimer and wheel bucket atacker and reclaimer.

Referenced criterion and standards of ship loader are as follows,GB/T14695-93 jib- form wheek bucket stacker and reclaimer type parameters, JB/T326-94 wheel bucket stacker and reclaimer safety regulation, JB/T7328-94 wheel bucket stacker and reclaimer receipt& inspection specification, GB3811- 2088 crane design criterion and Gb6067- 85 lifting equipments safety regulation.

型号			DQL450/600.25	DQL1000/1250.30	DQL1800/2000.35	DQL2500/3000.40	
生产能力	额定生产率	堆料	600	1250	2000	3000	
		取料	450	1000	1800	2500	
堆取高度		轨上	10	11	12	12	
		轨下	2	2	2	2	
物料	种类及密度	t/m ³	煤0.85-1	煤0.85-1	煤0.85-1	煤0.85-1	
	粒度	mm	0-300	0-300	0-300	0-300	
取料机构	斗轮形式		无格	无格	无格	无格	
	斗轮直径	m	4.21	6	7	8	
	斗轮转速	r/min	6-10	7.817	7.5	6	
	斗数X斗容	m ³	7×0.22	8×0.5	8×1	8×1.5	
胶带	传动形式		机械	机械	机械	液压	
	进料/出料	带宽	1200	1400	1600	1800	
回转机构		带速	2.5	3.45	3.45	4	
	回转半径	m	25	30	35	40	
	回转角度	(°)	±110	±110	±110	±110	
	回转速度	r/min	0.046~0.154	0.006~0.16	0.1~0.2	0.06~0.2	
俯仰机构	控制方式		变频	变频	变频	变频	
	支撑形式		交叉滚子轴承	交叉滚子轴承	圆锥滚轮式	台车	
运行机构	俯仰角	仰	13	13	13	13	
		俯	8	8	8	8	
外形尺寸	俯仰速度	m/min	3-6	4.3-6	4-5.5	5	
	轴距	m	5	6	7	8	
	速度		m	6	7	7	9
		慢	m/min	7	7	7	7
		快	m/min	30	30	30	30
	最大轮压	kN	200	200	≤250	≤250	
荐用轨道		P43/P50	P43/P50	QU80/QU100	QU80/QU100		
装机容量	kW	180	280	360	450		
电源	V	380/卷筒	6000/卷筒	6000/卷筒	6000/卷筒		
外形尺寸	长	m	52.6	51.19	~61.4	~65	
	宽	m	7	~8.58	~9	~10	
	高	m	17	21	23.5	25	