



DOWELL

*DOWELL CRANE
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河南德华重工起重设备有限公司

HENAN DOWELL CRANE CO.,LTD.

H

YDRAULIC TELESCOPE KNUCKLE CRANE

折臂伸缩吊



该类吊机适用于布置空间狭小的船舶，尤其是海工领域和小型船舶，吊机起升，回转，变幅折臂，伸缩均为液压驱动，其运行动作灵活，安全，可靠，调节范围大。

This type of crane is fit to be installed on the ship with the narrow arrangement, particularly marine engineering/service ship and small cargo ships. The crane's lifting, slewing, luffing, knuckle, telescoping are driven by hydraulic power. Its operation is flexible, safe, reliable and has a wide adjustment range.

最大额定载荷：15吨.米
Max. SWL: 150T.M



M

ODORAIL PROVISION CRANE

伙食吊

该类吊机为伙食吊，可用于船靠港时，从岸上往船上进行吊运，额定载荷2-20吨，悬臂长度可根据船舱或上层建筑实际尺寸而定。

These cranes are single rail cranes. They are fit for hanging the provision, spare parts and rummages or hang things from ports to deck on board. SWL of these cranes we can provide are from 2-20ton. The length of the jib can be fixed according to the cabin or superstructure.



该类吊机为双轨（包含单梁型、双梁型）机舱行车吊，适用于船上机舱内伙食、备件及杂物的吊运，额定载荷2-30吨，轨距及悬臂长度可根据船舱实际尺寸而定。控制方式有手动和电动两种。

E

NGINE ROOM CRANE

机舱行车吊

These cranes are double-rail (including single-girder type and double-girder type) traveling cranes in the engine rooms. They are fit for hanging the provision, spare parts and rummages in the engine room on board. SWL of these cranes we can provide are from 2-30ton. The rail span and length can be fixed according to the cabin. They can be controlled by manual and electrical.



MARINE ELECTRIC DOUBLE-TRACK ENGINE ROOM CRANE

船用电动双轨机舱行车



本吊机有单轨双梁双梁机舱行车和双轨双梁机舱行车,用于船舶机舱内设备的维护和维修。由纵向移动梁和横向移动梁、HM-C型双速电动葫芦、纵向和横向移动的驱动装置组成。吊机的起升和行走电机采用锥形转子电动机,工字梁下方安装有齿条,保证电机自锁时整体机构能及时制动,不产生滑移现象。起升电机具有双速功能,有常速和慢速定位功能,满足您的不同需求。移动梁两侧均有限位装置,保证设备安全运行。

This dual-beam monorail crane with dual dual-beam cabin and flight traffic lane within the cabin equipment for the ship maintenance and repair. By the longitudinal beams and lateral movement moving beam, HM-C-type two-speed electric hoist, vertical and horizontal movement of the drive components. Crane lifting and walking motor uses conical rotor motor, I-beams installed below the rack, ensure the motor locking brake in time when the whole body, not to slip. Lifting motor with two-speed function, there is often a slow speed and positioning capabilities, to meet your needs. Beam power on both sides of both mobile devices limit to ensure the safe operation of equipment.

技术参数 Technical parameters



型号 Type	额定载荷 Rated load SWL (t)	跨距 Span (m)	起升高度 Lifting height (m)	起升速度 Lifting speed (m/min)	行走速度 Walking speed (m/min)	设计条件 (纵倾、横倾) Design Angle (trim, heel) (°)
DSH	0.5	2.5~5	6~12	8 / 0.8	6.0	2° / 5°
	1	3~6	6~12	8 / 0.8	6.0	2° / 5°
	2	3~6	6~18	8 / 0.8	6.0	2° / 5°
	3	3~6	6~18	8 / 0.8	6.0	2° / 5°
	5	3~8	6~18	8 / 0.8	6.0	2° / 5°
	10	3.5~10	9~18	8 / 0.8	6.0	2° / 5°

LAUNCHING APPLIANCE FOR LIFEBOAT

救生艇降落装置

本公司提供的救生艇降落装置符合SOLAS公约、相关船级社规范及EC规范。根据实船布置情况,本降落装置分自由抛落、重力倒臂式及单臂回转三种形式供用户选择。

Launching Appliance for Lifeboat made by Haitai fulfills requirements of SOLAS relative classification society rules and EC rules. It consists of Free Fall Lifeboat launching gear and Fall Down Lifeboat Crane and Single Arm Lifeboats types, and clients can choose them basis collocation in fact.

型号 TYPE	A40	A70	A100
最大工作负载 (SWL-Down)	40KN	70KN	100KN
最大起升负载 (SWL-Up)	30KN	50KN	70KN
起升速度 Hoisting Speed	~3m/min		
起升高度 Hoisting Height	40m		
电制 Power Supply	440V/60HZ/3PH 380V/50HZ/3PH		



GRAVITY TYPE LAUNCHING APPLIANCE
重力倒臂式艇架



LAUNCHING APPLIANCE FOR FREE FALL LIFEBOAT
自由降落救生艇抛落装置



SINGLE ARM LIFEBOAT DAVIT
单臂回转救生艇吊架

型号 TYPE	C5	C14	C21	C30
最大工作负载 (SWL-Down)	5KN	14KN	21KN	30KN
最大起升负载 (SWL-Up)	4KN	10KN	14KN	20KN
起升速度 Hoisting Speed	~10m/min			
下降速度 Drop Speed	36~72m/min			
起升高度 Hoisting Height	45m			
最大工作半径 Working Extent	可按用户要求修改 By user			
电制 Power Supply	440V/60HZ/3PH 380V/50HZ/3PH			



MARINE DOOR HATCH COVER CRANE 船用门式舱盖吊

本起重机安装在船舶甲板上，轨道铺设在船舶甲板两侧，吊机沿轨道运行，作业面覆盖整个船舶甲板上面。其设备专门用于起吊舱盖，也可吊运其他物品。主梁两端安装有两套卷扬系统，同时可操作四个吊钩，此吊钩具有同升同降功能，以满足起吊舱盖平稳起升和降落。主梁下端安装有一台电动葫芦，也可吊运其他物品，以满足不同需求。



The crane is mounted on the deck of the ship, the rail is laying on both sides of the ship deck for crane running & working on the entire deck of the ship. The crane designed for lifting the cover or hoisting other items. There are two sets of winch system installed at both ends of the main beam, which can operate four hooks up or down at the same time to lift or land hatch cover smoothly. There is an electric hoist installed below the main beam for lifting other items to meet different requirements.



THE YACHT HANGING 游艇吊

游艇搬运机可以根据客户的不同要求进行设计制造，其主要用于游艇的上下水、吊运等工况，可以方便、快捷地满足不同游艇的吊运保养、维修或厂区间的移运工作，安全可靠性能很强。上部结构为双门架“U”型连接框架，以便于在码头或厂区满足不同船型的顺利进水、出水、吊运等工作。

主要性能参数： Main Parameters:

Rated capacity (t) 额定载重量	100	150	200	300
Grounding specific pressure (kg/m²) 接地比压	11.5	11	11.5	6.5
Grade ability (m/min) 爬坡能力	2%	4%	4%	4%
Lifting speed (m/min) 起升速度	Full load 满载	0~2	0~1	0~2
	Non-load 空载	0~5	0~4	0~3
Traveling speed (m/min) 运行速度	Full load 满载	0~20	0~20	0~20
	Non-load 空载	0~35	0~35	0~35
Working ambient temperature 工作环境	-20° ~+50°	-20° ~+50°	-20° ~+50°	-20° ~+50°



In the application of small tonnage watercraft transportation machine, according to customer requirements and the environment, it can be designed as economic type full electric drive mode.



RUBBER TYRED GIRDER CRANE 轮胎式提梁机

350T-1200T轮胎式提梁机主要由大车走行系统、支腿、主梁、起重行车、电气及液压等系统组成。TTB250轮胎式提梁机适用于中国时速350km/h、250km/h公路客运专线，从预制场台座内的起吊、场内短距离运输（横向、纵向），能在预制场装车区将混凝土箱梁吊装到运梁车上等工作。具有施工速效快、机动灵活，可以在任意台座处取梁、移梁、落梁，不需要辅助机械和过多人工等优点。



Rubber Tyred Girder Crane

.Steering:can make straight movement,transversal movement,and steering at 90°;
Pivot slewing:the machine can do pivot slewing at 360°centered on machine.

Rubber Tyred Girder Crane

- .Capacity 350tons~1200tons
- .Full frequency conversion
- .Hydraulic steering system
- .90°steering,360°pivot slewing
- .Intelligent safety system
- .Canin&wireless control
- .Option:special spreader
full hydraulic system
- .Usage for large bridge girder transfer



RUBBER TYRE CONTAINER GANTRY CRANE 轮胎式集装箱门式起重机

轮胎式集装箱门式起重机（英文缩写RTG），主要由钢结构、起升机构、微转机构、吊具防摇装置、大车运行机构、转向机构、小车运行机构、集装箱吊具、柴油发电机组、电气设备及其它必要的安全和辅助设备组成。可采用变频、PLC控制系统和CMMS故障监测系统。

引用的主要标准：GB/T15362-92《轮胎式集装箱门式起重机技术条件》，GB/T4783-94《轮胎式集装箱门式起重机试验方法》以及国际标准化组织ISO标准，欧洲FEM，日本JIS标准。

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/T4783-94 rubber tyre container gantry crane test method. ISO standards, FEM standards and JIS standards.



RAIL MOUNTED CONTAINER GANTRY CRANE 轨道式集装箱门式起重机

轨道式集装箱门式起重机（英文缩写RMG），主要由钢结构、起升机构、微转机构、吊具防摇装置、大车运行机构、小车运行机构、集装箱吊具、电气设备及其它必要的安全和辅助设备组成。可采用变频、PLC控制系统和CMMS故障监测系统。

引用的主要标准：GB/T19683-2005《轨道式集装箱门式起重机》，JT/T566-2004《轨道式集装箱门式起重机安全规程》，以及国际标准化组织ISO标准，欧洲FEM，日本JIS标准。

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/T19683-2005 rail mounted container gantry crane. JT/T566-2004 rail mounted container gantry crane safety rules. ISO standards. FEM standards and JIS standards.



EUROPEAN OVERHEAD CRANE WITH HOOK CAP.5-320T 5-320吨欧式吊钩桥式起重机

欧式系列吊钩桥式起重机是具备以下优点的新一代起重设备：

- 1、自重轻、轮压小、界限尺寸小、性能可靠、操作方便的其中设备是各种物料搬运场所首选的机型。
- 2、轮压小、界限尺寸小，便可降低厂房等前期工程投资，同时照明、取暖等设施又能节省一些费用。
- 3、产品性能可靠，经久耐用，会给后期产品在使用过程中所需的附加费用降至最低；一方面高质量、高性能的零部件的采用使维护、维修工作量减少，另一方面总装机功率（能耗）有所降低，也使其使用成本得以节约。

Products Summary:

European series overhead crane with hook is new generation crane. it has the following advantages:

- 1、Light dead weight, light wheel load, small boundary dimensions, dependable performance, cosy operation.
- 2、Light wheel load and small boundary dimensions can reduce the costs of plant construction, save capital investment of lighting, heating and so on.
- 3、Using high-quality components can reduce failure rate and maintenance costs. Lowering consumption of total power can reduce the costs, it has remarkable energy-saving effect.

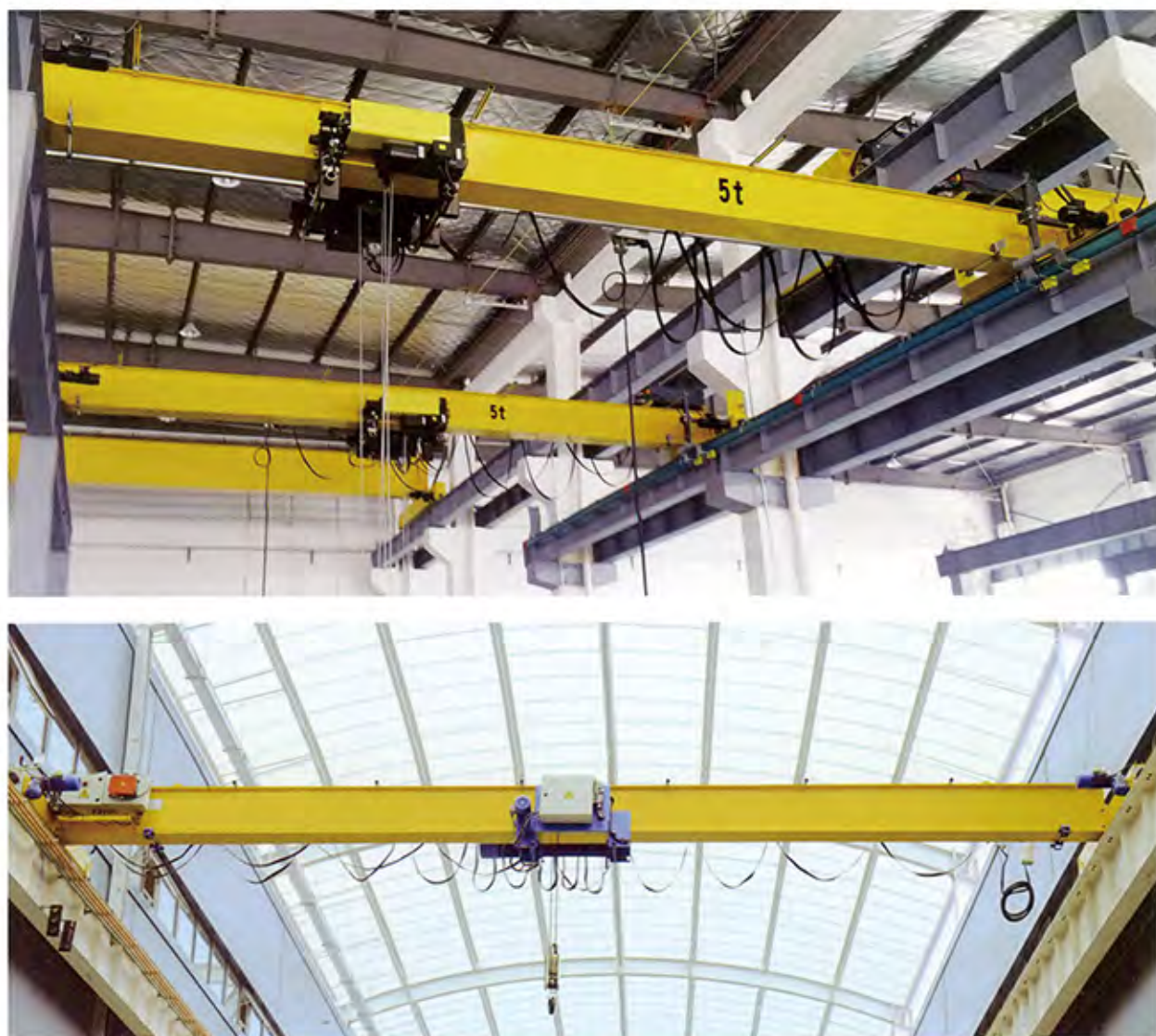
OFFSHORE CRANE 海洋平台起重机



海洋平台起重机主要是在海洋平台上使用的起重机，是一种海洋平台装卸货物和吊运人员到平台上面的设备，是海洋石油生产中最重要生产和安全设备之一，其安全性、可靠性、可维修性、可抗风性及耐腐蚀性要求很高。它具有起重能力大，操纵方便，耐冲击，制动性能好，安全可靠，装卸效率高与对货物的适应性好等特点。它和陆用起重机的执行标准不同，由于海面环境恶劣所以海洋平台起重机采用的安全系数一般在10倍，而陆用起重机一般采用的安全系数为2-3倍。



Offshore platform crane is mainly used on offshore platform crane, is a kind of offshore cargo handling and lifting personnel to the above equipment platform, is the most important in the production of offshore oil production and safety equipment, one of its safety and reliability, maintainability, and high requirement of wind resistance and corrosion resistance. It has large lifting capacity, convenient manipulation, impact resistance, good braking performance, safe and reliable, loading and unloading of goods of high efficiency and good adaptability to the goods it's different from the implementation of land use crane standard, due to the surface of the environments, so the safety factor of the offshore platform crane used generally in 10 times, and the safety factor of the commonly used stationary crane for 2-3 times.



THE EUROPEAN CRANE 欧式起重机

欧式起重机具有尺寸小,重量轻,轮压小的特点。与传统起重机相比,吊钩至墙面的极限距离最小,净空高度最低,起升高度更高,实际增加了现有厂房的有效工作高度。由于起重机的自重轻、轮压小、新厂房空间可以设计的更小,功能更齐全,节省厂房投资。

The European crane has a small size ,light weight,small wheel pressure characteristics.Compared with the traditional crane hook to the wall of the limit distance minimum, minimum headroom lifting height higher,the actual increase in the effective working space of the existing plant.Small due to the light weight of the crane,wheel pressure,the new plant space can be designed smaller,more functional,and investment in plant savings.



P ORTAL CRANE 门座起重机

门座起重机,适用于岸线较长的码头,如船厂的船台、舾装码头和万吨级泊位散杂货码头等。一般采用单臂架钢丝绳变幅、单臂架齿条变幅或四连杆臂架齿条变幅结构形式,配用吊钩或抓斗装卸货物。该类产品具有工作幅度大、起升高度高、速度快、运转平稳可靠、作业效率高等特点。

Introduction:

The boom is made up with single boom or four linked bars. The whole machine is light, with low wheel pressure. Its luffing system adopts steel wire luffing. It can luff with load, and move horizontally. This model has four working mechanisms, which are lifting, slewing, luffing and traveling. It can work both independently and collaboratively. The linkage among all mechanisms greatly improves the equipment' s productivity. It moves stably, is save and reliable, the ideal equipment for shipbuilding factory assembly. The company uses its rich experience, exquisite techniques and reliable technologies during designing, manufacturing and installation, assuring the product will be able to run safely, reliably and smoothly under all normal working conditions.

Application:

The crane is installed on the bank. It is applied to the port of loading and unloading cargo between the bank and the ship. The customer can choose from the two: with hook \ with hook and grab.

Common bulk: coal, coke, gravel, sand, ore, cement clinker, steel slag, sulfur, grain, etc.

Common cargo: steel, wood, packed cargo, big stone, etc.



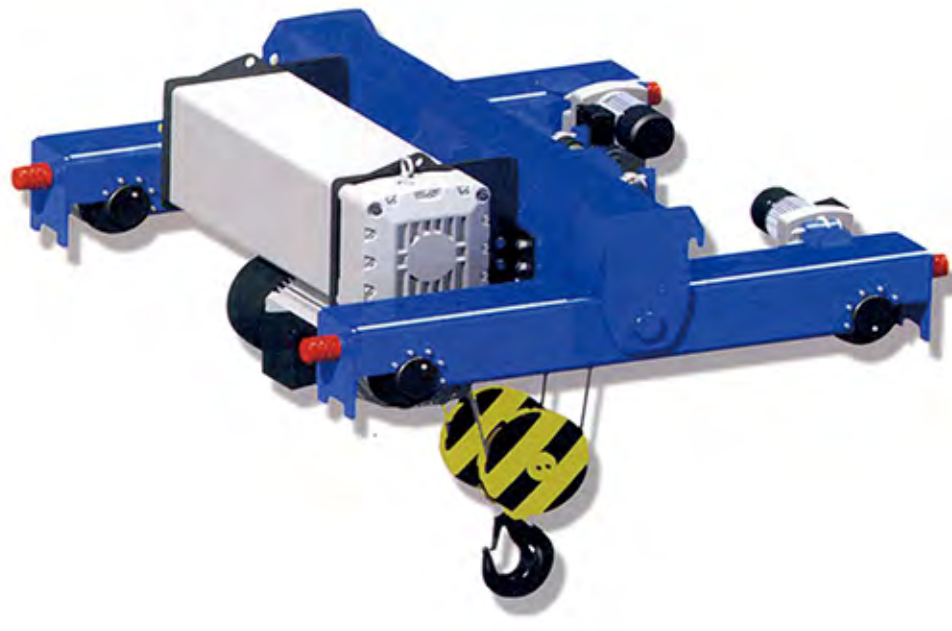
SHIPBUILDING GANTRY CRANE 造船门式起重机

造船门式起重机其结构形式分为单梁和双梁，主要由门架、上小车、下小车、大车运行、维修起重机、电梯及电气设备组成，并设有夹轨装置、锚定装置、防风、防雷以及其他安全和辅助设施。跨度较大时设有大车纠偏系统。

引用标准：GB/T8504-95《修造船厂门式起重机技术规范》，GB/T14406-93《通用门式起重机》，GB6067-85《起重机安全规程》，GB3811-2008《起重机设计规范》。

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 devices . 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 / T14406-93 general gantry crane . GB6067 lifting equipments safety regulation, GB3811-2008 crane design criterion .





European style hoist



Electric wire rope hoist



Electric chain hoist



Electric winch



Remote controller



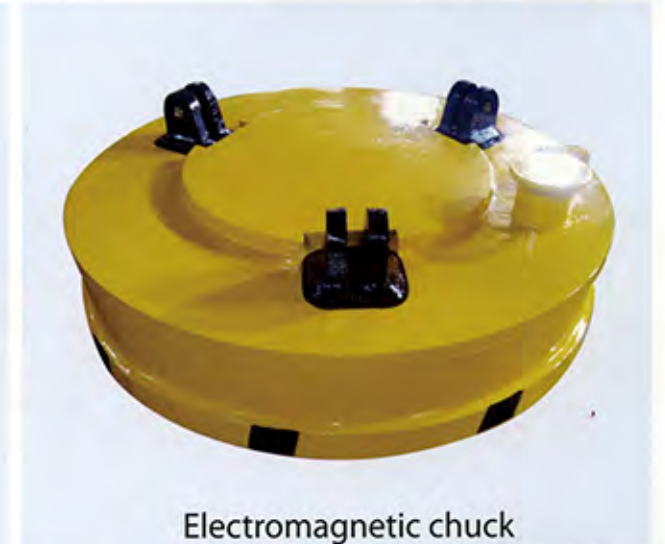
Crane hook



Cable drum



Grab bucket



Electromagnetic chuck



Rail track



Cable reel

Enterprise aptitude 企业资质



G TO HANG 克令吊

克令吊现场试验
Field Test for Crane



D

DOUBLE HYDRAULIC SLEWING CRANE HOOK

双吊钩液压回转起重机



此吊机适用于港口，码头，船舶，石油平台，主钩 100t，适合起吊较大吨位的货物，副钩 5t，起升速度快，适合起吊较小吨位的货物，以满足不同的需求。



This crane is suitable for ports, wharf, ships, oil platforms, the main hook 100t, suitable for lifting large tonnage cargo, vice hook 5t, high lifting speed, suitable for lifting small tonnage of goods to meet different needs.

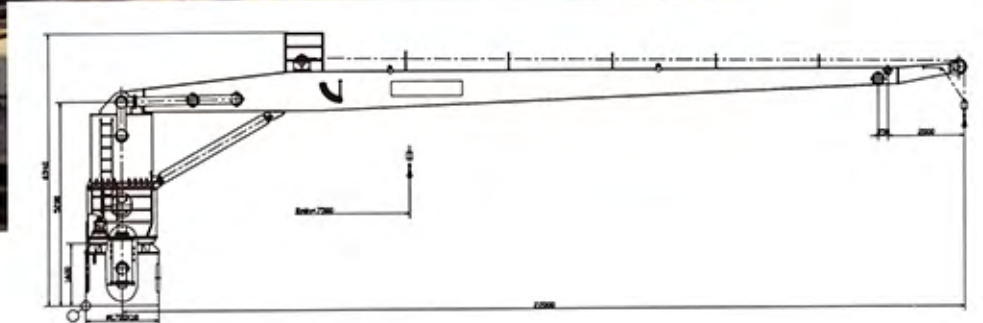
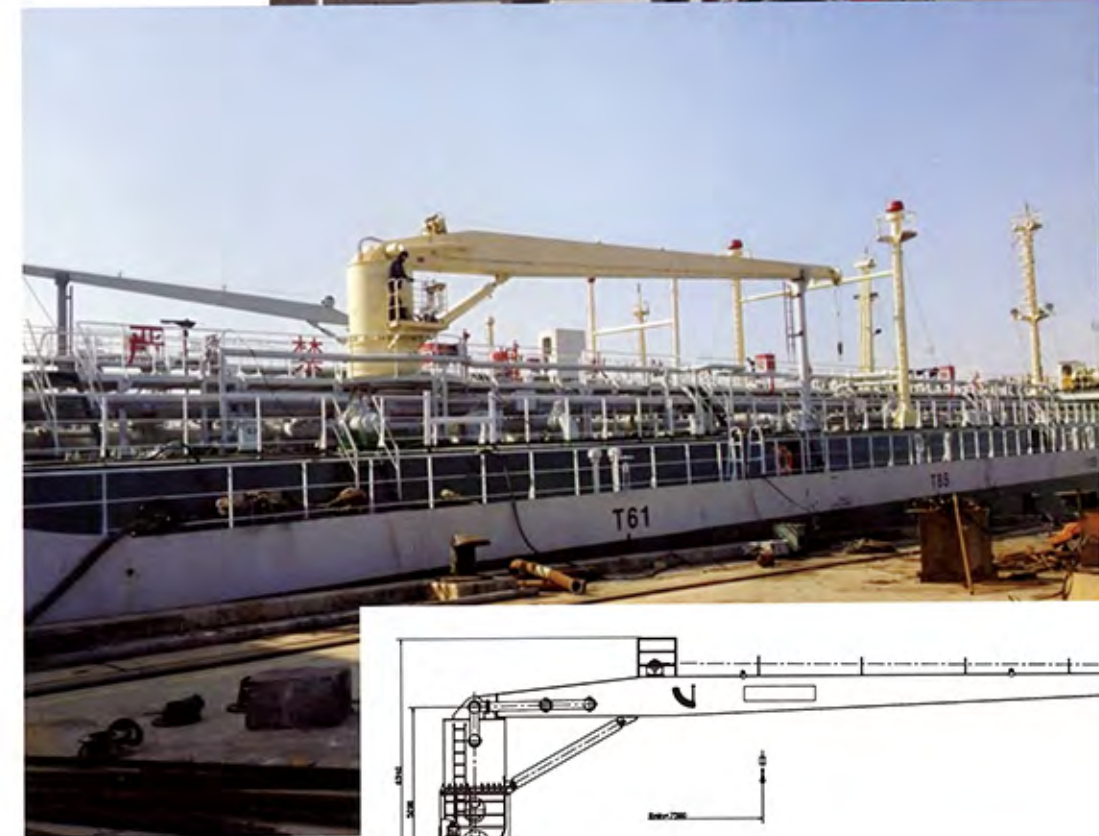
C

RANE HYDRAULIC PIPELINE

液压输油管起重机

此吊机安装在油轮上，主要用于船舶输送油品以及起吊货物和其他物品，是油轮上常用较理想的起重设备。

This crane is mounted on a tanker, mainly for ships transporting oil as well as lifting of goods and other items, it is a common, ideal lifting equipment on the tanker.



MARINE HYBRID HYDRAULIC SLEWING CRANE

船用双动力液压回转起重机

公司新研发一款新型电、柴双动力双配套液压回转起重机，配有柴油机，可在无电源情况下用柴油机驱动油泵进行起吊作业。且运行平稳，无抖动，电动机柴油机可以任意操作，互换方便。还配有液压油冷却器，可在高温环境下操作运行，是船舶较理想的起重设备，尤其用于散货轮，可以频繁起吊货物，另外还配有司机室和照明投光灯，电动机和柴油机都可以在司机室完成起吊作业，司机视野良好，可以看到下面任何部位。也可以在雨中作业，也可以在夜间作业。

Our company's newly developed electric and diesel hybrid double supporting hydraulic isolated pillar crane, equipped with diesel engines, can do lifting operations through oil pumps driven by diesel engine under the conditions of no power. Its running is smooth and shakeless and it can be operated either via diesel engine or via motor and it's easy to exchange. It is also equipped with hydraulic oil cooler, which can be operated under a high temperature environment. It is an ideal hoisting equipment for ships especially for bulk carriers and it can lift cargo frequently. Moreover, it comes with cab and lighting spot lights so that the lifting operations either by motor or diesel engines can be done in the cab cause the driver can see any parts below with a good vision. It also can work in the rain and even at night.



HYDRAULIC TELESCOPE CRANE

液压伸缩吊



该类吊机适用于布置空间狭小的船舶，尤其是海工领域和小型船舶，吊机起升，回转，变幅均为液压驱动，其运行动作灵活，安全，可靠，调节范围大。

This type of crane is fit to be installed on the ship with the narrow arrangement, particularly marine engineering/service ship and small cargo ships. The crane's lifting, slewing, luffing are driven by hydraulic power. Its operation is flexible, safe, reliable and has a wide adjustment range.

额定载荷：1-25吨，臂长：10-25米
SWL: 1-25ton, Length of jib: 10-25m

MARINE ELECTRICAL/ HYDRAULIC CARGO CRANE

货物吊

甲板货物吊主要为散货船或集装箱船卸货而专门设计的，分为纯电动控制和电液控制。具有高效、节能、环保等特点，产品结构紧凑，外形美观，性能可靠易维护。

It is designed to unload goods in bulk carrier or container vessel, controlled by electric type or electric-hydraulic type. It is high-efficiency, energy-saving, environmental protection with its compact structure, good appearance and reliable performance.

额定载荷：25-60吨，最大工作半径20-40米。
SWL: 25-60 ton
Max. working radius: 20-40m

