

卓越

强大的制造支撑，十几年的研发储备

领先

财富集聚的智慧本源，事业提升的实力体现

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2005年4月版

徐工集团 · 重型机械

系统优化升级

全路面起重机

SYSTEMIC OPTIMIZATION & UPGRADE

QAY200

QAY160

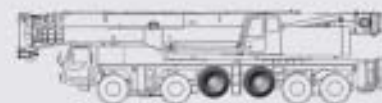
QAY130



The Series of Construction Crane

■全路面起重机 □汽车起重机 □履带式起重机
■All-Terrain Crane Series □Truck Crane Series □Crawler Crane Series

徐州重型机械有限公司



徐重全路面起重机简介

ALL TERRAIN CRANE SERIES

纵观移动式工程起重机的发展历程，大型化、智能化、高性能是该类产品发展的必然趋势。随着经济的高速发展，客户对产品的运作效率、高强度连续作业，提出了更高要求。全路面起重机因其综合了汽车起重机高速转移作业场地和越野轮胎起重机越野能力强等特点，倍受业内人士和用户的认可。

拥有着近50年工程起重机研制历史的徐工集团徐州重型机械有限公司，早在90年代初就开始了全路面技术进行攻关，经历了无数次实验后，1995年徐重自行研发制造出了第一台全路面起重机—160吨，该产品“亚洲第一吊”的美誉。

2002年，25吨全路面产品的问世再次引起业界瞩目，被中国工程机械权威机构评为“2002年10大新闻看点之一”。其后，125吨全路面产品的推出，进一步夯实了企业全路面产品的研制基础，而且以上吨位产品因其在国内外施工现场的出色表现，得到了用户的高度认可。

2004年3月，首次采用椭圆形截面伸臂的QAY50全路面产品，集多年成熟、研发制造技术于一身，在第27届德国慕尼黑宝马国际工程机械展会上展出，引起较大反响，仅隔8个月，2004年11月，徐重再次超乎业界想象，系列推出100—200吨级全路面起重机，其在上运用的单缸插销式吊臂伸缩系统、CAN总线控制系统、油气悬挂系统等技术，无一不彰显出中国工程起重机研制技术提升到了世界级水平。

In the history of mobile cranes, large, intelligent, high tech, are the developing trend of the product. With rapid development of economy, customers call for more requirements of high efficiency, powerful lifting capacity and continuous operation. All terrain crane combines the functions and features of truck crane and rough terrain crane with highway travel speed and off-road capacity, so this kind of cranes are appraised by customers and construction machinery industry.

With nearly 50 years experience in design and manufacture of mobile cranes, Xuzhou Heavy Machinery cooltd XCMG began to develop all terrain crane early in the 1990s. After a series of experiment, in 1995, Xuzhou Heavy Machinery Works XCMG developed and manufactured by itself the first unit of 160t all terrain crane. From then on, it has remained the reputation of "The First Crane in Asia".

In 2002, the 25t all terrain crane was launched and also drawn attention of the crane industry, and "One of the 10 Top News in 2002" appraised by authorized organizations of China construction machinery. Then, the launch of 125t all terrain crane further more laid a foundation for development and manufacture of all terrain cranes. The excellent performance of all terrain cranes on work-sites are praised by customers at home and abroad.

In March 2004, QAY50 all terrain crane, developed with first adoption of oviform boom profile and manufactured with many year's matured crane technology, was shown on Bauma 2004, Munich, Germany, which enhanced the crane development and manufacture in China to a world class level.

only 8 months later, in nov, 2004, Xuzhou Heavy Machinery Co., Ltd., beyon the image of the industrial insiders, launched a series of all terrain cranes from 100t to 200t, with single cylinder pinning telescopic boom, CANBus contral technology, hydro-pnuematil suspension and etc., demonstrate the world advanced level of china調 constuction cranes.

环保 安全 可靠 先进
ENVIRONMENTAL
SAFE RELIABLE ADVANCED



ALL TERRAIN CRANES
全路面起重机系列

全路面起重机系列

All terrain cranes

全路面起重机系列
QAY200, 160, 130
QAY200, 160, 130 ALL TERRAIN CRANES

全 / 路 / 面 / 起 / 重 / 机 / 系 / 列

ALL TERRAIN CRANES

新型椭圆形截面吊臂、单缸自动控制伸缩机构，实现多种臂长组合

New type oviform boom profile, only one cylinder for boom sections automatic telescoping, different boom length can be realized by multiply combination.

零维护、高智能、更安全的PLC计算机集成控制系统

PLC computer integrated control system, free-maintenance, high intelligence and safety.

更强劲、更持久的工程机械专用发动机
Powerful and durable construction machinery engines.

高节能、高可靠的变量泵系统
Variable displacement pump system, cost energy and reliable.



人性化设计更多运用—自动润滑保养、可向上旋转的全视野操纵室……

Ergonomically design--centralized lubrication operator's cab tilted backwards……

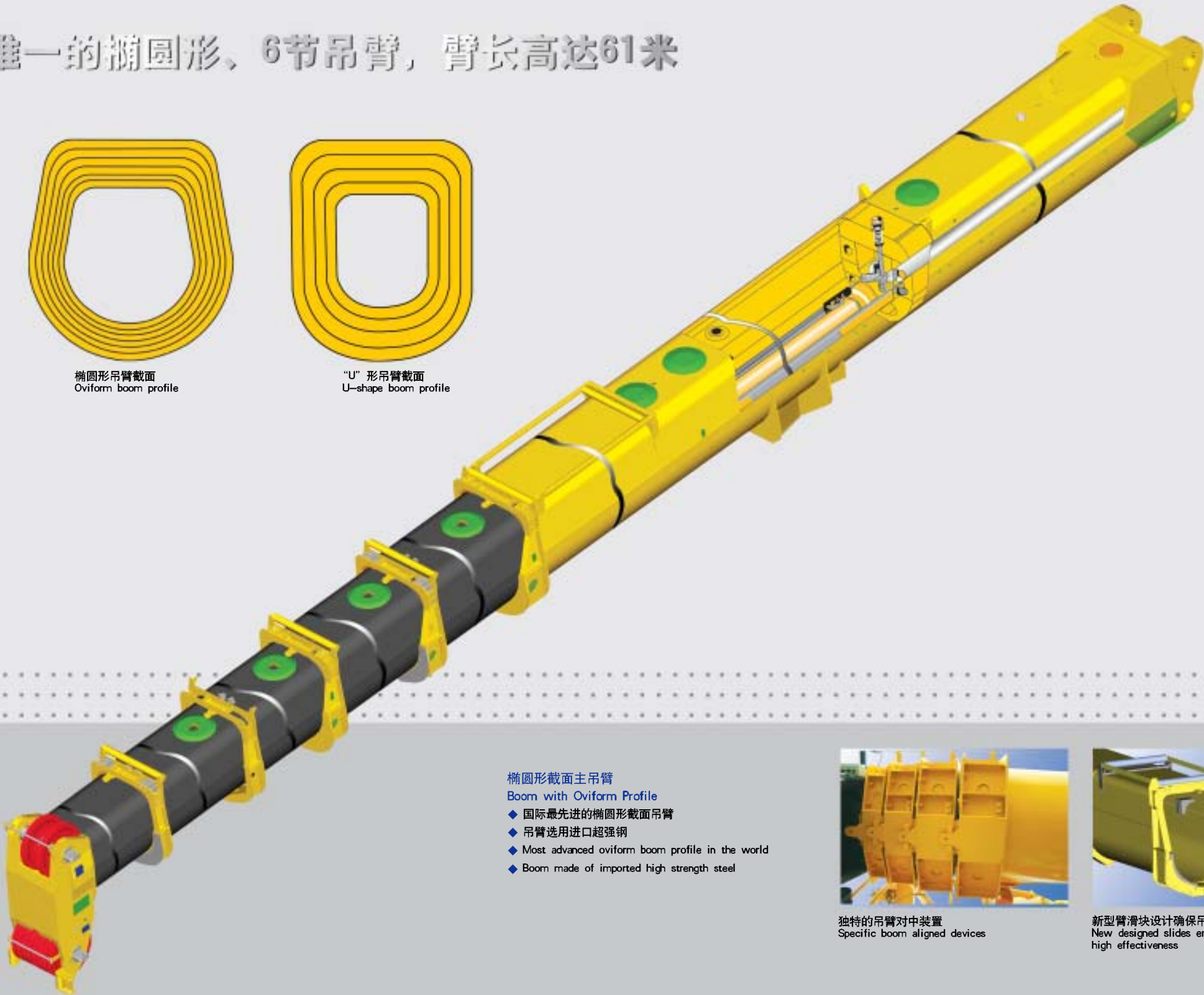
转场、就位高效率的全地面越野起重机底盘
All terrain crane carrier, high efficiency, quick and easy for job site transfer and positioning.

功能强大的多组合平衡重
Multiply combined counterweight for more powerful lifting capacity.

性能强大的吊臂系统

Well-performed boom section

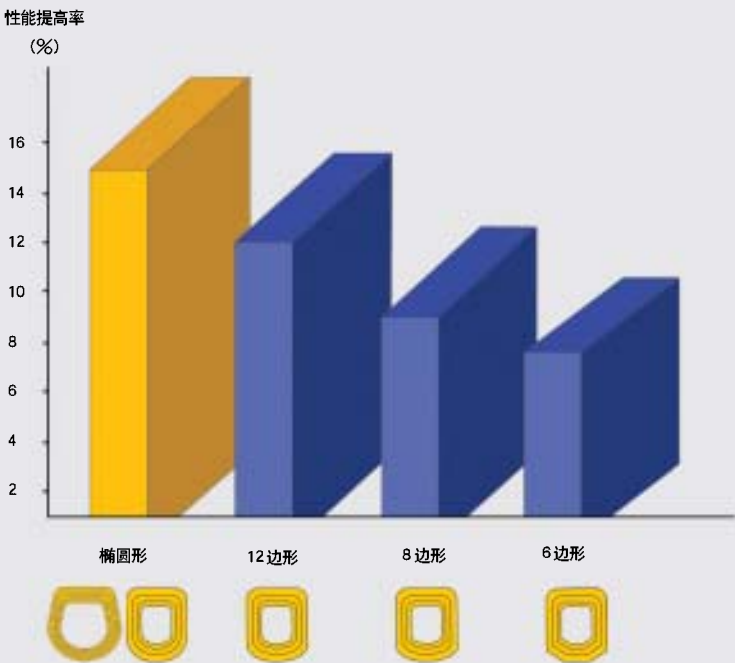
国内唯一的椭圆形、6节吊臂，臂长高达61米



椭圆形吊臂截面
Oviform boom profile



“U”形吊臂截面
U-shape boom profile

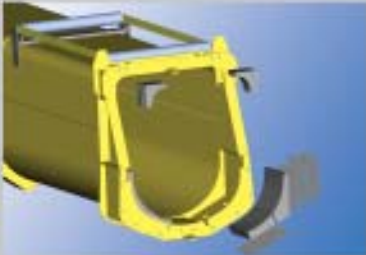


不同截面形状的起重性能对比
The lifting capacity of different shape profile

- 椭圆形截面主吊臂
Boom with Oviform Profile
- ◆ 国际最先进的椭圆形截面吊臂
 - ◆ 吊臂选用进口超强钢
 - ◆ Most advanced oviform boom profile in the world
 - ◆ Boom made of imported high strength steel



独特的吊臂对中装置
Specific boom aligned devices



新型臂滑块设计确保吊臂伸缩平稳、高效
New designed slides ensure the stability and high effectiveness

- 起重臂伸缩系统
Boom Telescoping System
- ◆ 伸缩更平稳高效的内部互锁自动伸缩式起重臂（专利号：ZL02286205.6）
 - ◆ 单伸缩油缸自动控制多节臂伸缩装置（专利号：ZL02138606.4）
 - ◆ 与吊臂截面相吻合的大型滑块
 - ◆ 独特的起重臂对中装置
 - ◆ 大幅度降低吊臂重量，提高起重性能
 - ◆ Automatic inter-locking and pinning device for "U"-shaped boom (Patent No. ZL02286205.6).
 - ◆ Single cylinder automatic controllable boom section telescoping system (Patent No. ZL02138606.4).
 - ◆ Sufficient side lubrication for each boom section.
 - ◆ Imported wire ropes and bearings.

转场、就位高效率的全路面越野起重机底盘

All terrain crane for off-road and high efficient work

／ 全 路 面 起 重 机 系 列 ／

ALL TERRAIN CRANES



PAT 收线器
PAT cord reel



起升机构
winches



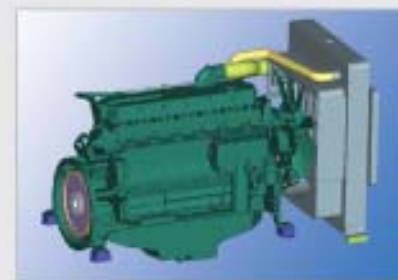
起吊机构 Hoist

- ◆ 进口防打绞，不旋转起升钢丝绳
- ◆ 双独立起升机构
- ◆ Imported anti-rotation winch ropes
- ◆ Tow independent winches

All terrain cranes for off-road and high efficient work

上车动力系统 Power

- ◆ 上车配备沃尔沃工程机械专用全新涡轮增压柴油机，耗油量小、扭矩大
- ◆ Equipped with Volvo turbocharged diesel engine on crane superstructure, powerful output and less fuel consumption



上车沃尔沃发动机



奔驰欧 III 型电喷发动机
Benz engine, Euro III, electronic injection



康明斯发动机
Cummins engine



CAN 总线控制系统
CAN bus control system

底盘驱动系统 Chassis Drive Train

- ◆ 下车配备康明斯欧 II 或奔驰欧 III 型电喷最新型发动机。
- ◆ 自动变速箱，操纵可自动和手动，再精心配置米其林越野轮胎，即使场地崎岖难行，也能快速到达吊装位置。
- ◆ 采用 CAN 总线技术，组成计算机局域网络，具有强大的数据通信能力。
- ◆ ABS/ASR 防抱死防驱动打滑，保证车辆获得最好制动稳定性和方向操纵性。
- ◆ Equipped with Cummins Euro II or Euro III diesel engine on the chassis.
- ◆ Auto transmission system with automatic and manual control, equipped with Michelin off-road tyre for quick and easy travel even on rough terrain.
- ◆ The computer area network is comprised by the CAN bus therefore, it is gifted powerful communicating ability to transfer the digital signal.
- ◆ ABS/ASR devices ensure the braking stability and steering safety.



悬挂油缸
Suspended cylinder



油气悬挂压力表
Pressure gauge of hydro-pneumatic cylinder

油气悬挂系统 Hydro-pneumatic Suspension

- ◆ 在驾驶室内通过悬挂阀控制悬挂油缸的升降，非常轻松地控制起重机底盘起升、下降、前后及侧向倾斜，提高通过能力。
- ◆ 油气悬挂系统具有优越的减振和调平车架的能力，可根据路面高低的特点，自动调平车架，现场就位迅速，全面提高越野通行能力。(专利号：03220121.4)
- ◆ The axles are hydro-pneumatic suspended by hydraulic cylinders and can be raised, lowered, laterally inclined and auto matically leveled by control of the suspension cylinders in driver's cab.
- ◆ Axle suspension automatic leveling based on road condition (Patent No. 03220121.4)
- ◆ Damping and passing ability improved by suspension height adjusting.



支腿操纵
Operating outriggers

支腿操纵 Operating Outriggers

- ◆ 电控操纵，并设有油门增速按钮
- ◆ 全伸支腿时，可实现 360° 全回转作业
- ◆ 电子水平仪
- ◆ 各支腿可独立操作，亦可同时操作
- ◆ 两级双 H 型支腿，可半伸支腿作业
- ◆ Electric control with acceleration button
- ◆ 360° swing on fully-extended outriggers
- ◆ Night visual level gauge on both sides (Patent No.: 03219322.x)
- ◆ Each outrigger operated either independently or simultaneously
- ◆ Double H-shaped outrigger, mid-extension possible

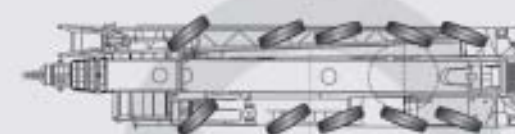
可实现 360° 全回转作业
Operation of 360° full swing



QAY130底盘转向系统图示



中桥提升



前后桥反向转向：小半径转弯

18m

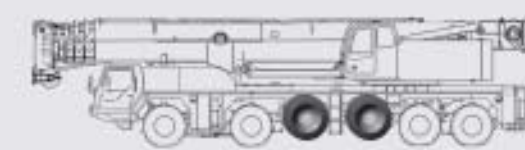


前后桥同向转向：蟹行行走



QAY130

QAY200, 160底盘转向系统图示



中桥提升



前后桥反向转向：小半径转弯

24m



前后桥同向转向：蟹行行走



QAY200/QAY160

全轮转向系统 All Wheel Steering System

- ◆ 多种转向模式，可适应高速公路、施工现场等各种不同行驶工况
- ◆ 中轴提升，可实现全轮转向、蟹形行走
- ◆ 多桥转向系统，结构紧凑、转弯直径小，能最快速地靠近起吊物
- ◆ 在施工现场空间很小时，具有很大的灵活性
- ◆ Suspension rigid lock-out ensures safe and stable travel with a load.
- ◆ Multiple-axle chassis, all axle drive and all wheel steering, and crab walk possible.
- ◆ Compact structure, small turning diameter, and easy for access to load on work-site.

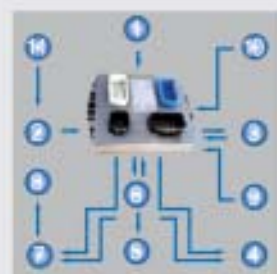
精确、可靠的控制执行系统—PLC计算机集成控制系统、液压系统

Accurate and reliable system for control and execution
—PLC computer integrated control system and hydraulic system

全路面起重机系列
QAY200, 160, 130
ALL TERRAIN CRANES

全路面起重机系列

ALL TERRAIN CRANES



PLC 计算机集成控制系统

PLC Computer Integrated Control System

起重作业部分采用工程机械专用 PLC 可编程集成式控制器，控制信号和操纵特性曲线可实现数字化设定和调整。该控制器与变量起升液压系统相结合，能够更精准地根据负载变化自动调整系统输出流量和压力，严密控制运作速度。

Lifting operation part is controlled by PLC computer integrated controller for construction machinery. Control signals and operating performance chart can be set and adjusted with digital data. The control system, combined with variable-displacement hydraulic system, can automatically and accurately adjust its output and pressure based on load variation, therefore makes crane control and operation smooth and precise.



全自动力矩限制器
Automatic L.M.L.



工作元件
Executive Component



显示调试器
Display regulator



传感器
Sensor



动力元件
Power component



操纵开关
Operation switch



操纵手柄
Operation lever



工作元件
Executive component



工作元件
Executive component



传感器
Sensor



电比例阀
Hydro-electrical proportional valve



卡套接头
Clamped-type pipe joint

液压系统 Hydraulic System

- ◆ 泵控开式变量系统，与电比例操作系统紧密结合，全面增强起重控制性能
- ◆ 进口卡套式接头，零泄露，防污染
- ◆ 强效的液压油冷却系统
- ◆ 总功率控制变量泵液压控制装置（专利号：03219321.1）
- ◆ 防冲击自动找正的回转液压系统（专利号：03219267.3）
- ◆ 活塞杆自动旋转的液压油缸，专利号：03219673.3
- ◆ 性能卓越、运动可靠的进口泵、马达、阀类、密封等执行元件
- ◆ 高度集成的模块化阀组，管路简单，液阻小（专利号：01244458.8）
- ◆ Pump controlled open type variable displacement hydraulic system combined with hydro-electrical proportional control improves crane operation performance.
- ◆ Imported ferrule-type pipe joints, free of leakage and antipollution.
- ◆ Effective hydraulic oil cooling system.
- ◆ Hydraulic control system with constant power controlled variable displacement pump (Patent No.: 03219321.1).
- ◆ Hydraulic swing system with shockproof and self-alignment (Patent No.: 03219267.3).
- ◆ Hydraulic cylinder with piston rod automatic rotation (Patent No.: 03219673.3).
- ◆ Imported pump, motor, valves and sealing with excellent performance and reliability
- ◆ Highly integrated modular valve block with simple pipeline and less hydraulic resistance (Patent No.: 01244458.8).

多平衡重组合—全面增强中长臂、大幅度起重能力

Combined counterweight
—improve lifting capacity with mid-extended boom and large radius

全路面起重机系列
QAY200, 160, 130
ALL TERRAIN CRANES

全路面起重机系列

ALL TERRAIN CRANES

QAY200

65 吨、42 吨平衡重最大起重量: 200 吨
32 吨平衡重最大起重量: 198.7 吨
22 吨平衡重最大起重量: 190 吨
不挂平衡重最大起重量: 172 吨
Max. lifting capacity with 65t, 42t counterweight: 200t
Max. lifting capacity with 32t counterweight: 198.7t
Max. lifting capacity with 22t counterweight: 190t
Max. lifting capacity without counterweight: 172t

QAY160

32 吨、45 吨平衡重最大起重量: 160 吨
11 吨、22 吨平衡重最大起重量: 130 吨
不挂平衡重最大起重量: 125 吨
Max. lifting capacity with 32t, 45t counterweight: 160t
Max. lifting capacity with 11t, 22t counterweight: 130t
Max. lifting capacity without counterweight: 125t

QAY130

22 吨平衡重最大起重量: 130 吨
15 吨平衡重最大起重量: 120 吨
8 吨平衡重最大起重量: 100 吨
不挂平衡重最大起重量: 95 吨
Max. lifting capacity with 22 t counterweight: 130t
Max. lifting capacity with 15 t counterweight: 120t
Max. lifting capacity with 8 t counterweight: 100t
Max. lifting capacity without counterweight: 95t

◆ 徐重研制的百吨级全路面起重机，具备多平衡重组合能力，可根据吊装需求，自行组合选择起重模式，尤其在吊高、吊远方面表现卓越。

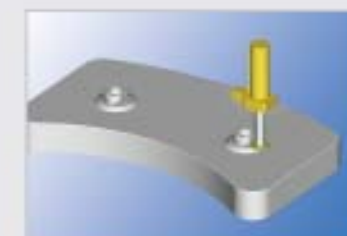
◆ The all terrain cranes on the hundred-ton-level developed by the Xuzhou Heavy Machinery Works are capable to be matched by multiply counterweight combination referring to the lifting requirements and the capacity of choosing different lifting type ensures the excellent performance in lifting height and lifting length.



平衡重定位装置
positioning device for counterweight



平衡重悬挂油缸
Suspended cylinder
for counterweight



平衡重自装卸
Self-assembly of counterweight



平衡重尾部为弧形结构，
尽可能缩小了回转作业空间
Curved counterweight tail reduces swing radius



平衡重遥控器
Counterweight remote controller

人性化的体贴设计

Ergonomical and carefull design

全路面起重机系列
QAY200, 160, 130
QAY200, 160, 130 ALL TERRAIN CRANES

豪华、宽敞的驾驶室

- ◆ 造型美观的驾驶室
- ◆ 良好的隔音效果
- ◆ 可调式驾驶员太空座椅
- ◆ 可调式方向盘
- ◆ 四季如春的冷暖空调
- ◆ 可自动除霜
- ◆ 起重机油门操纵装置(专利号: 01217723.7)

Spacious Carrier Cab

- ◆ Cab of state of the art.
- ◆ Good sound insulation.
- ◆ Adjustable driver's seat.
- ◆ Adjustable steering wheel.
- ◆ On-board air-conditioner.
- ◆ Defroster for windscreen.
- ◆ Crane accelerator control (Patent No. 01217723.7)



脚踏板 (遇障碍可自动收起)
Pedal (Capable to fold automatically
when meeting obstacle)



座椅 (可调整)
Adjustable damping chair



方向盘可调
adjustable steering wheel

自动变速
auto gear shift

Ergonomical and carefull design



有诊断能力的集中显示系统
Detecting system with integrated display



倒车视野拓展装置
Backing devices with enlarging field of vision



副臂自动插销装置
Jib auto-pin device



自动润滑装置
lubrication devices

新型的操纵室

- ◆ 流线型整体式复合材料壳体
- ◆ 大圆弧整体式前上方安全玻璃, 清除视觉死角
- ◆ 可调式操作员座椅
- ◆ 设计合理的内装饰, 良好的视觉和隔音效果
- ◆ 可选装空调和暖风装置
- ◆ 防紫外线窗帘
- ◆ 功能齐全的力矩限制器
- ◆ 先进的电比例手柄
- ◆ 良好的速度控制

Newly Designed Crane Cab

- ◆ Streamlined cab body made of compound material.
- ◆ Round-angle safety glass for front window with wide field of vision.
- ◆ Adjustable operator's seat.
- ◆ Inner decoration of reasonable design, larger vision and good sound insulation.
- ◆ Air-conditioner and heater are for option.
- ◆ Curtain for protection of ultraviolet radiation.
- ◆ Multi-functional load moment limiter.
- ◆ Advanced electric proportional joystick.
- ◆ Good speed control.



新型操纵室
New type operator's cab



操纵室内的收音机
Tap radio in operator's cab

新型的操纵室



操纵室可向上调节 20°
Capable to turn backward by 20°

全路面起重机技术参数

All terrain cranes technical spexification

全路面起重机系列
QAY200,160,130
ALL TERRAIN CRANES

全路面起重机系列

ALL TERRAIN CRANES

QAY200 起重机行驶状态



QAY160 起重机行驶状态



QAY130 起重机行驶状态



电脑预装配
确保制造更完美
Pre-fabricated by com-
puter simulation, pefect
manufacture.

精心制造的钢结构件

- ◆ 上下车主要结构件为优质高强度钢结构，采用 ANSYS 效能分析等新的计算方法，重量优化，设计合理
- ◆ 主要承载构件采用进口 WELDOX960 超高强度钢制造，安全系数高
- ◆ 大型数控弯机、干式等离子切割机等国际一流设备，精确实现钢结构设计思想

Carefully manufactured structural parts

- ◆ Structural parts of carrier and superstructure are made of high quality, high strength steel, designed with ANSYS finite element calculation method, optimized weight and reasonable arrangement.
- ◆ Main load carrying parts are made of WELDOX 960 high strength steel with high safety factors.
- ◆ Newly imported NC press brakes, dry type plasma cutting machines and other high-tech equipments precisely realize the idea of innovative design.

QAY200 起重机作业状态主要技术参数表

类别 Category	项目 Item		单位 Unit	参数 Parameters	
主要性能参数 Lifting performance	最大额定总起重量 Max. total rated lifting capacity		t	200	
	最小额定工作幅度 Min. rated working radius		m	3	
	转台尾部回转半径(平衡重) Turning radius at swing table tail		mm	5070	
	最大起重力矩 Max. load	基本臂 Base boom	kN.m	6774	
		最长主臂 Full—extend boom	kN.m	2752	
	支腿距离 Outrigger span	纵向 Longitudinal distance/ 横向 Lateral distance	m	9.625/8.7(6.5)	
	起升高度 Lifting height	基本臂 Base boom	m	14.5	
		最长主臂 Full—extend boom	m	61.5	
		最长主臂+副臂(11.55m) Full—extend boom+Jib	m	73.8	
		最长主臂+副臂(20m) Full—extend boom+Jib	m	82.1	
	起重臂长度 Boom length	基本臂 Base boom	m	13.8	
		最长主臂 Full—extend boom	m	61	
		最长主臂+副臂(11.55m) Full—extend boom+Jib	m	72.55	
最长主臂+副臂(20m) Full—extend boom+Jib		m	81		
副臂安装角 Jib offset		°	0、15、30		
工作速度参数 Working speed	起重臂变幅 Boom elevating	起臂 Boom raising	s	90	
	起重臂伸缩 Boom telescoping	全伸 Full—extending/ 全缩 Full—Retracting	s	550/550	
	最大回转速度 Max. swing speed		r/min	1.9	
	支腿伸缩时间 Outrigger extending and retracting time	水平支腿 Outrigger beam	同时伸 Full—extending	s	50
			同时缩 Retracting	s	40
		垂直支腿 Outrigger jack	同时伸 Full—extending	s	50
			同时缩 Retracting	s	45
	起升速度 (单绳、第四层)	主起升机构 Main winch	空 载	m/min	120
副起升机构 Aux. winch		空 载	m/min	110	

QAY200 起重机行驶状态主要技术参数表

类别 Category	项目 Item		单位 Unit	参数 Parameters
尺寸 参数 Outline Dimensions	整机全长 Overall length		mm	16130
	整机全宽 Overall width		mm	3000
	整机全高 Overall height		mm	4000
	轴距 Wheel space	一、二轴距 1st, 2nd axle	mm	2750
		二、三轴距 2nd, 3rd axle	mm	1650
		三、四轴距 3rd, 4th axle	mm	2000
		四、五轴距 4th, 5th axle	mm	1650
		五、六轴距 5th, 6th axle	mm	1650
轮距 Track		mm	2590	
重量 参数 Weight	行驶状态整机自重 Dead weight in travel state		kg	71000
	轴荷 Axle load	一、二轴 1st, 2nd axle	kg	11750
		三、四轴 3rd, 4th axle	kg	11850
		五、六轴 5th, 6th axle	kg	11900
动力 参数 Power	上车发动机	额定功率 Engine rated output	kw/(r/min)	162/2100
		额定扭矩 Engine rated torque	N.m/(r/min)	854/1400
		额定转速 Max. travel speed	r/min	2100
	下车发动机	额定功率 Engine rated output	kw/(r/min)	390/1800
		额定扭矩 Engine rated torque	N.m/(r/min)	2400/1200
		额定转速 Max. travel speed	r/min	2000
行 驶 参 数 Travel Performance	行驶速度 Travel speed	最高行驶速度 Max. travel speed	kw/h	71
	最小转弯直径 Min. turning diameter		m	24
	最小离地间隙 Min. ground clearance		mm	278
	接近角 Approach angle		°	25
	离去角 Departure angle		°	20/17.9
	制动距离(车速为 30km/h) Braking distance(at 30km/h)		m	≤ 10
	最大爬坡度 Max. grade ability		%	48
	百公里油耗 Fuel consumption of 100km		l	80

全路面起重机技术参数

All terrain cranes technical spexification

全路面起重机系列
AY200,160,130
QAY200,160,130 ALL TERRAIN CRANES

全路面起重机系列

ALL TERRAIN CRANES

QAY160 起重作业状态主要技术参数

类别 Category	项目 Item		单位 Unit	参数 Parameters
主要性能参数 Lifting performance	最大额定总起重量 Max.total ratedlifting capacity		t	160
	最小额定工作幅度 Min.rated working radius		m	3
	转台尾部回转半径 Turning radius at swing table tail		mm	4850
	平衡重尾部回转半径		mm	4450
	副卷扬尾部回转半径		mm	4878
	最大起重力矩 Max.load	基本臂 Base boom	kN.m	5282
		最长主臂 Full—extend boom	kN.m	2140
		最长主臂+副臂 Full—extend boom+Jib	kN.m	1377(26m×5.4t)
	支腿距离 Outtrigger span	纵向 Longitudinal distance	m	9.625
		横向 Lateral distance	m	8.7(6.5)
	起升高度 Lifting height	基本臂 Base boom	m	14.3
		最长主臂 Full—extend boom	m	56.3
		最长主臂+副臂 Full—extend boom+Jib	m	79
	起重臂长度 Boom length	基本臂 Base boom	m	13.6
		最长主臂 Full—extend boom	m	60
		最长主臂+副臂 Full—extend boom+Jib	m	80
工作速度参数 Working speed	副臂安装角 Jib offset		°	0、15、30
	起重臂变幅 Boom elevating	起臂 Boom raising	s	90
		全伸 Full—extending	s	550
	起重臂伸缩 Boom telescoping	全缩 Retracting	s	550
		最大回转速度 Max.swing speed	r/min	2
	起升速度 (单绳、第四层)	主起升机构 Main winch 空载	m/min	120
		副起升机构 Aux.winch 空载	m/min	110

QAY130 起重作业状态主要技术参数

类别 Category	项目 Item		单位 Unit	参数 Parameters	
主 要 性 能 参 数 Lifting performance	最大额定总起重量 Max.total ratedlifting capacity		t	130	
	最小额定工作幅度 Min.rated working radius		m	3	
	转台尾部回转半径 Turning radius at swing table tail		mm	3958	
	平衡重尾部回转半径		mm	4450	
	副卷扬尾部回转半径		mm	4878	
	最大起重力矩 Max. load	基本臂 Base boom	kN.m	4120(4m × 105t)	
		最长主臂 Full—extend boom	kN.m	1420(12m × 12.1t)	
		最长主臂 + 副臂 Full—extend boom+Jib	kN.m	1377(26m × 5.4t)	
	支腿距离 Outtrigger span	纵向 Longitudinal distance	m	8.0	
		横向 Lateral distance	m	7.5	
	起升高度 Lifting height	基本臂 Base boom	m	12.2	
		最长主臂 Full—extend boom	m	50	
		最长主臂 + 副臂 Full—extend boom+Jib	m	70	
	起重臂长度 Boom length	基本臂 Base boom	m	12.8	
		最长主臂 Full—extend boom	m	50	
		最长主臂 + 副臂 Full—extend boom+Jib	m	70	
副臂安装角 Jib offset		°	0、15、30		
工作 速度 参数 Working speed	起重臂变幅时间 Boom elevating time	起臂 Boom raising	s	60	
	起重臂伸缩时间 Boom telescoping time	全伸 / 全缩 Full—extending /Retracting	s	360 /340	
	最大回转速度 Max.swing speed		r/min	2	
	支腿伸缩时间 Outtrigger extending and retracting time	水平支腿 Outtrigger beam	同时伸 Full—extending	s	30
			同时缩 Retracting	s	25
		垂直支腿 Outtrigger jack	同时伸 Full—extending	s	40
			同时缩 Retracting	s	35
	起升速度 (单绳、第四层)	主起升机构 Main winch		m/min	100
副起升机构 Aux. winch		m/min	100		

QAY130 行驶状态主要技术参数

类别 Category	项目 Item		单位 Unit	参数 Parameters
尺寸参数 Outline Dimensions	整机全长 Overall length		mm	15900
	整机全宽 Overall width		mm	3000
	整机全高 Overall height		mm	4000
	轴距 Wheel space	一、二轴距 1st,2nd axle	mm	2750
		二、三、四、五、六轴距 2nd,3rd,4th,5th, 6th axle	mm	1650
		三、四轴距 3rd,4th axle	mm	2000
重量参数 Weight	轮距 Track		mm	2590
	行驶状态整机自重 Dead weight in travel state		kg	70000
	轴荷 Axle load	一、二轴距 1st,2nd axle	kg	11500
		三、四轴距 3rd,4th axle	kg	11700
		五、六轴距 5th,6th axle	kg	11800
动力参数 Power	上车发动机	额定功率 Engine rated output	kw/(r/min)	162/2100
		额定扭矩 Engine rated torque	N.m/(r/min)	854/1400
		额定转速 Max.travel speed	r/min	2100
	下车发动机	额定功率 Engine rated output	kw/(r/min)	390/1800
		额定扭矩 Engine rated torque	N.m/(r/min)	2400/1200
		额定转速 Max.travel speed	r/min	2000
行驶参数 Travel Performance	行驶速度 Travel speed	最高行驶速度 Max.travel speed	km/h	71
	最小转弯直径 Min.turning diameter		m	24
	最小离地间隙 Min.ground clearance		mm	278
	接近角 Approach angle		°	25
	离去角 Departure angle		°	20
	制动距离(车速为 30km/h) Braking distance(at 30km/h)		m	≤ 10
	最大爬坡度 Max.grade ability		%	48
	百公里油耗 Fuel consumption of 100km		l	80

类别 Category	项目 Item		单位 Unit	参数 Parameters
尺寸参数 Outline Dimensions	整机全长 Overall length		mm	15028
	整机全宽 Overall width		mm	3000
	整机全高 Overall height		mm	3950
	轴距 Wheel space	第一轴距 1st axle	mm	2750
		第二轴距 2nd axle	mm	1620
		第三轴距 3rd axle	mm	2000
		第四轴距 4th axle	mm	1620
	轮距 Track		mm	2610
重量参数 Weight	行驶状态整机自重 Dead weight in travel state		kg	57000
	轴荷 Axle load	一轴 1st axle	kg	11000
		二轴 2nd axle	kg	11000
		三轴 3rd axle	kg	11000
		四轴 4th axle	kg	12000
		五轴 5th axle	kg	12000
动力参数 Power	额定功率 Engine rated output		kw/(r/min)	324/1800
	额定扭矩 Engine rated torque		N.m/(r/min)	2100/1200
	额定转速 Max.travel speed		r/min	1800
行驶参数 Travel Performance	行驶速度 Travel speed	最高行驶速度 Max.travel speed	km/h	76
	最小转弯直径 Min.turning diameter	前桥/全桥	m	24/18
	最小离地间隙 Min.ground clearance		mm	300
	接近角 Approach angle		°	24
	离去角 Departure angle		°	17
	制动距离(车速为 30km/h) Braking distance(at 30km/h)		m	≤ 10
	最大爬坡度 Max.grade ability		%	45
	百公里油耗 Fuel consumption of 100km		l	70