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Materials and specifications are subject to change without notice.



100K 130K TRUCK CRANE





QY100K/QY130K TRUCK CRANE

QY100K/QY130K Leading Class-New Era for Hundred-Ton Truck Cranes

Early in 2003.Xuzhou Heavy Machinery Co. Itd launched the truck crane of 100-tonnage.

Today, QY100K/QY130K Truck Crane, with Pro/E design, produced by precise machines and equipment and through simulation tests for reliability, ranks the first in truck cranes of 100t class.

Non-faulty manufacture: using pre-assembly technique of computer simulation for each process ensures the product quality. Now, 100k/130k use computer simulation pre-assembly before production., ensure high work efficiency for the crane.

Good intelligence: PLC integrated control system---all electronic signals of key electronic components are processed by computer therefore make crane operation easier and more convenient, working safety, reliability and efficiency are improved greatly.

Cost energy: constant power and variable displacement system---combined with integrated controller, automatically adjust system output and pressure based on toad variation, precise and smart control of speed.

Durability: powerful construction machinery engines---imported Volvo engine for crane superstructure ensures long-time smooth operation, imported Cummins and Benz engine for crane carrier provides powerful and durable drive.

High efficiency: 3-axle off-road crane chassis, 100k 3-axles for steering, 130k 4-axles for steering powerful drive easy steering good pass-ability and rapid access to working position.

Excellent performance: ovoid profile boom---optimized cross-section minimizes boom weight and maximizes crane lifting capacity.

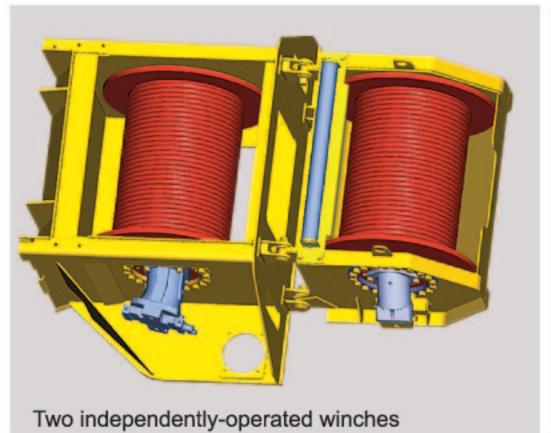
More convenience: all-round and full vision operator's cab---can be tilted backwards 20°, self-assembly of counter weight---various combined counter weight to meet various working requirements. Optional equipments---centralized lubrication unit, jib, single sheave on boom tip, anti-ultraviolet ray glass, radio-cassette recorder, etc.

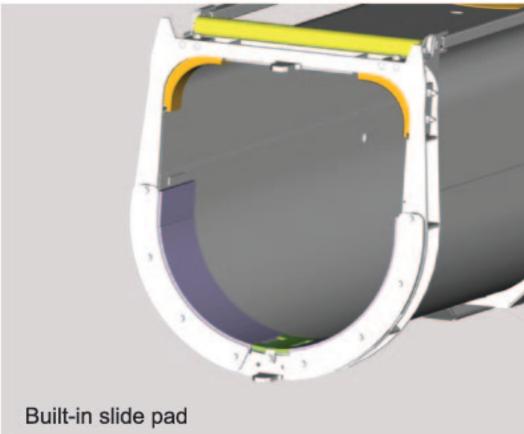


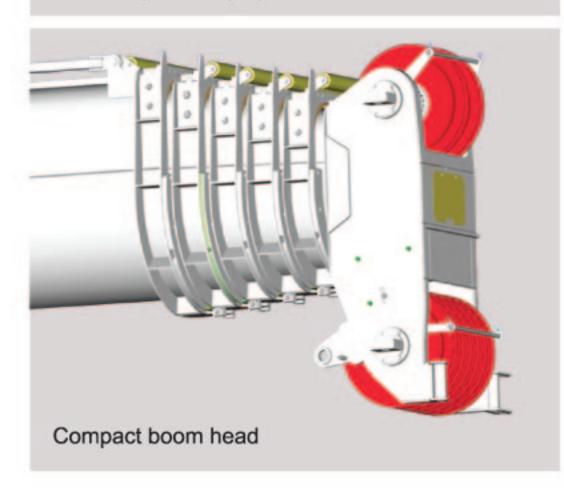
Computer Simulation Of Pre-assembly



Optimized and upgraded winch system











130K Advanced single cylinder telescoping and

pining system for variable boom length.

Performance improving rate (%)

Twelve-side-shaped

Hexagonal

12%

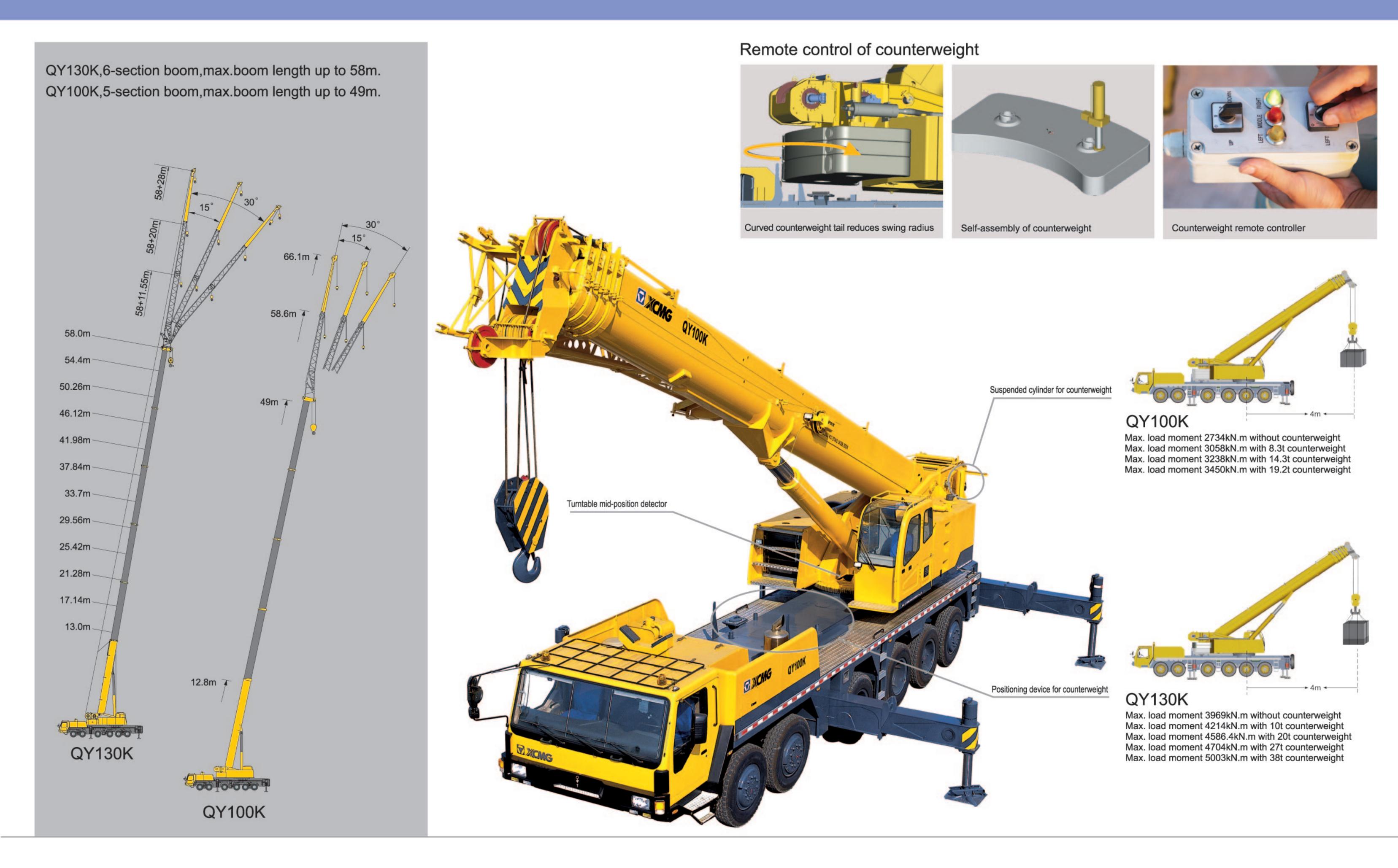
6%

4%

2%

- Optimized oviform profile with thin upper plate and thick lower plate made of imported WELDOX 960 high-tensile steel.
- Maximized boom strength, strengthened partial stability of bottom plate and belly plate.
- Maximized the mechanics performance of material.
- Optimized each boom section head used built-in slide pads.
- 100K ensure compact overall dimension, and also increase the joint length of fully extended boom sections and reduce boom deflection.



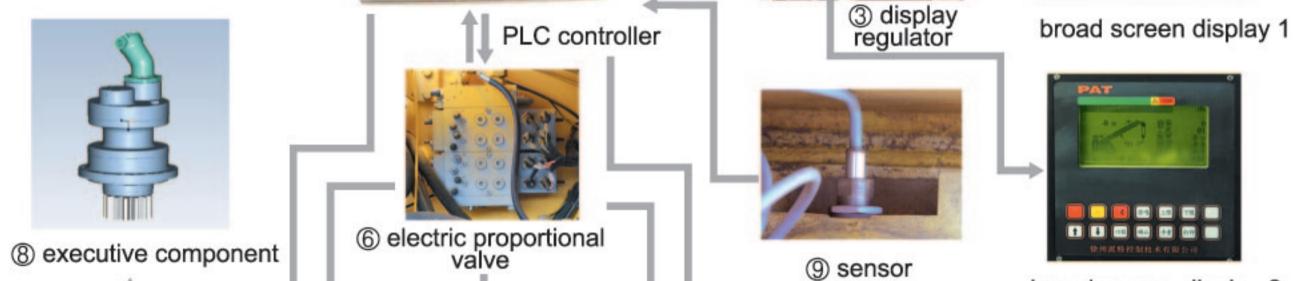


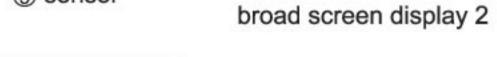
PLC Computer Integrated Control System:

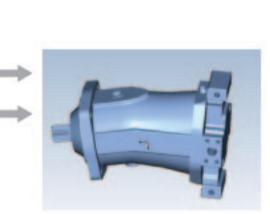
② load moment limiter

⑦ power component





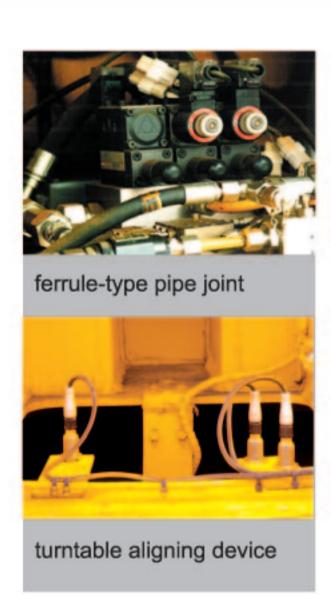




executive component



- Imported ferrule-type pipe joints,free of leakage and antipollution
- Effective hydraulic oil cooling system
- Variable hydraulic system of cost energy and high efficiency for hoist (Patent No.:01237657.4)
- Hydraulic system of shockproof self-alignment for swing (Patent No.:03219267.3)
- •Imported pump,motor,valves and sealing with excellent performance and reliability
- Integrated modular valve block with simple pipeline and less hydraulic resistance (Patent No.: 012044458.8)



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.

⑤ executive component

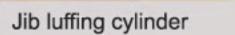
- free of maintenance imported electronic components failure diagnostic function
- real-time monitoring function
 convenient and accurate operating performance



Consideration permeates into each key detail

- Operator's cab tilted backwards: it has better sight of view especially suitable for lifting operation with long boom length. The overall vehicle layout, outline and two cabs are newly designed with 3D modular and ergonomic principle, which greatly improve the comfort and maintenance for the whole machine.
- Controllable free-swing for swing drive unit: swing drive unit uses planetary gear reducer and constant-closed brake driven by motor meshed with outer coupling slewing ring. A damping valve is fitted in the hydraulic system for free-swing and smooth fine motion control.







Jib self-erector



Convenient and comfortable drive environment



Comfortable driver's cab for construction machinery

- Integrated and streamlined cab body made of compound material.
- Curved and integrated front window, free of dead space of view.
- Implement complete operation by softly touching the pilot handle
- Reasonable internal decoration, good sound isolation
- Adjustable and vibration-proof driver's seat
- Adjustable steering wheel
- Electrical side window glass lifter
- Automatic defrosting
- CD player



Streamlined upper cabin cab made of compound material can be titled backwards 20°



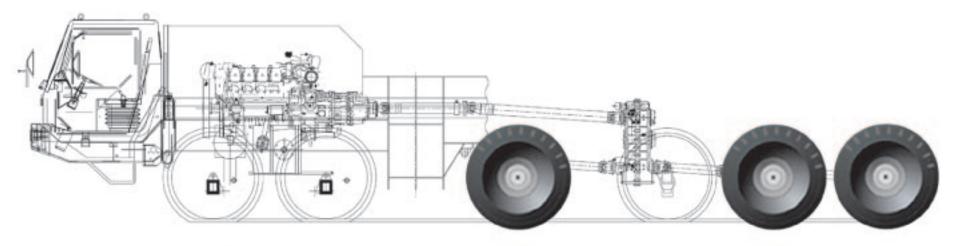
Back-up device with large sight view



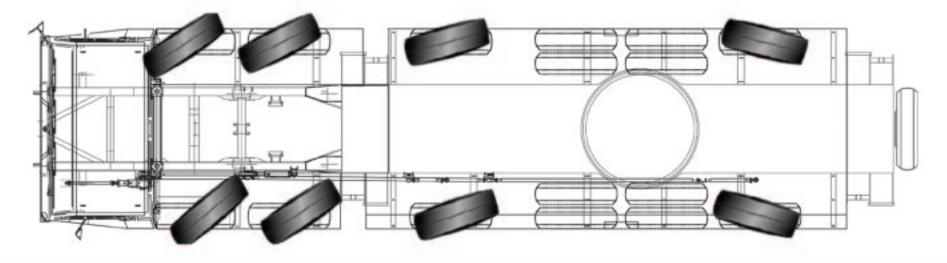
Centralized lubrication device

We have the ability of fast job-site transfer

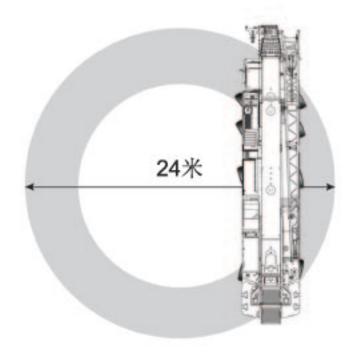
QY130K Chassis Steering System Diagram

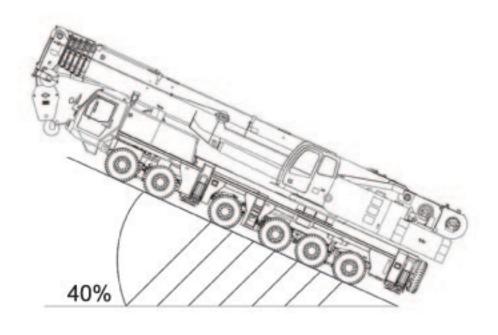


4-axle steering and 3-axle drive

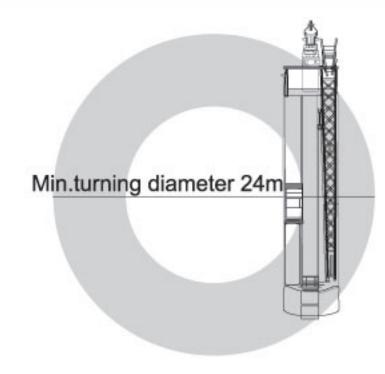


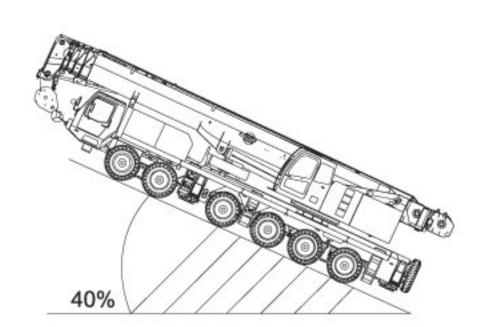
The crane carrier is 6-axle special crane chassis, drive type 12×6 (axle 3rd, 5th and 6th for drive), steering type 12×8 (axle 1st, 2nd, 3rd and 6th for steering), little turning radius, minimum turning diameter less than 24m, imported ZF automatic shifting transmission and transfer case and imported German drive axle, powerful off-road travel performance.





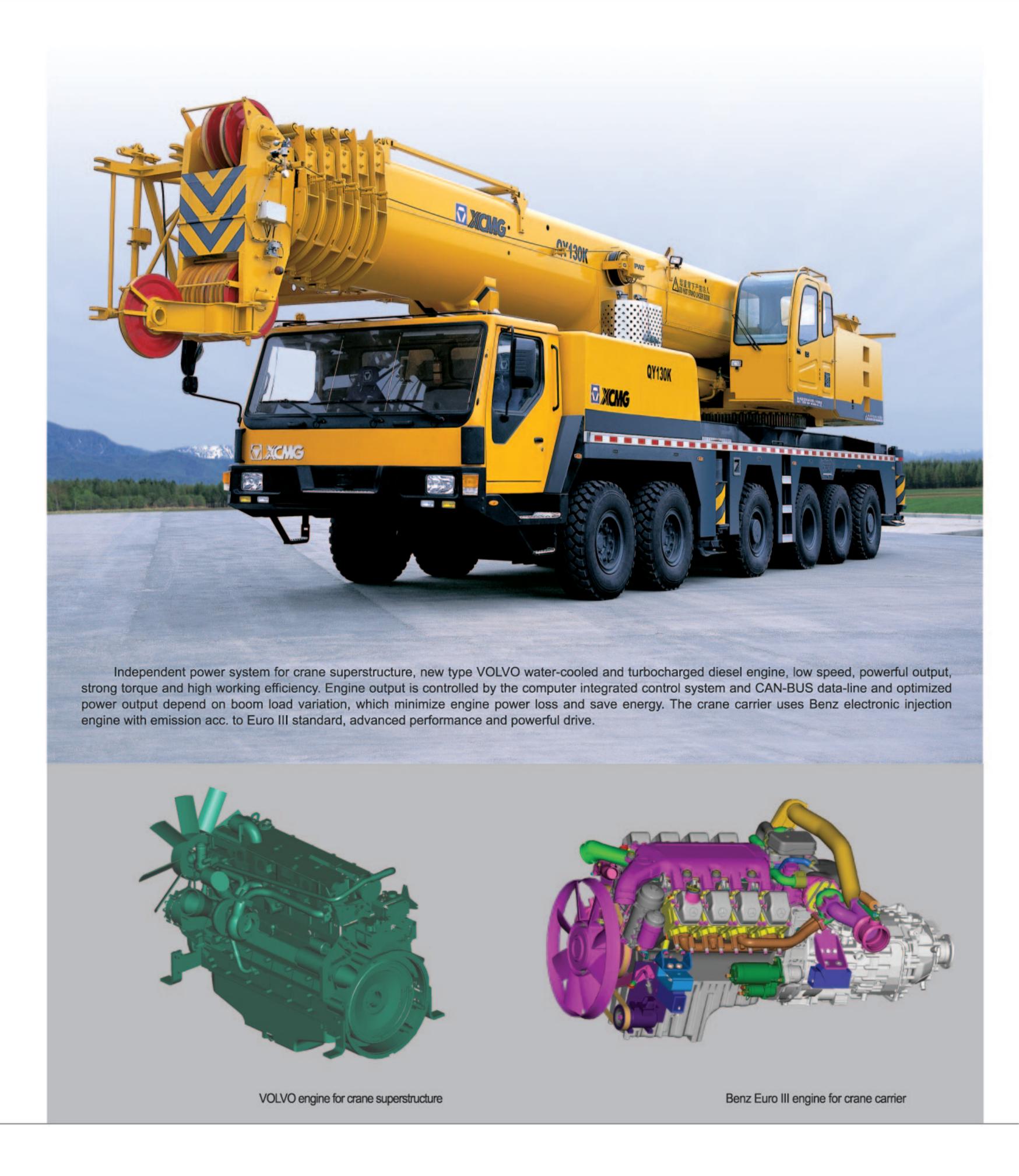
QY100K Chassis Steering System Diagram





Steering

- ●3-axle drive and 3-axle steering
- Min. turning diameter 24m
- ■Max. grade-ability 40%



Truck crane technical specification

QY130K Main Technical Data in Travel State

Dimensions	
$(L\times W\times H)$	14950×3000×3950mm
Wheel space	
1st.2nd axle	1420mm
2nd.3rd axle	2420mm
3rd.4th axle	1875mm
4th.5th axle	1350mm
5th.6th axle	1400mm
Track	2610/2307mm

Track	2610/2307mm
Weight	
Dead weight in travel state	54900kg
Axle load	
1st.2nd axle	8500/8500kg
3rd.4th axle	8400/10750kg

5th.6th axle

Power	
Superstructure engine	
Engine rated output	162/2100kW/(r/min)
Engine rated torque	854/1400N.m/(r/min)
Max.travel speed	2100r/min
Carrier engine	
Engine rated output	390/1800kW/(r/min)
Engine rated torque	2400/1080N.m/(r/min)
Max.travel speed	1800r/min

Travel	
Travel speed	
Max.travel speed	70km/h
Min.truning diameter	24m
Min.ground clearance	275mm
Approach angle/Departure angle	23° /14°
Max.grade ability	40%
Fuel consumption of 100km	80L

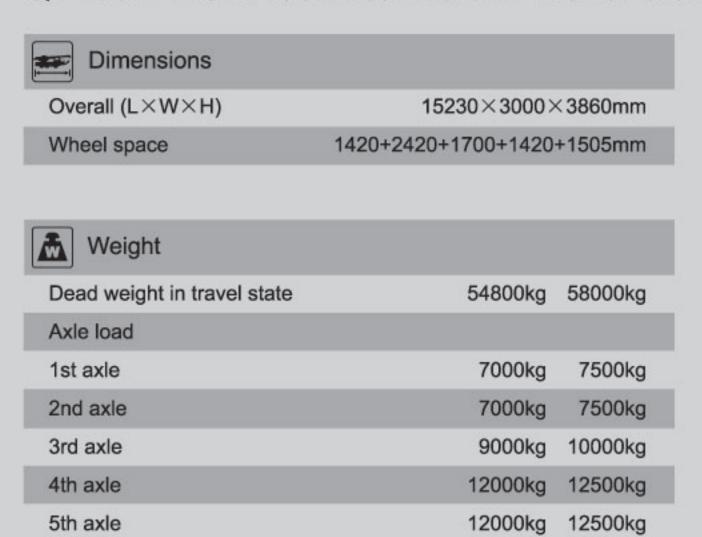
QY130K Main Technical Data For Lifting Operation

10750/8000kg

Max.total ratedlifting capacity	130t
Min.rated working radius	3m
Turning radius at swing table tail	4600mm
Max.load	
Parameters	5003kN.m
Full-extend boom	2090kN.m
Outrigger span	
Longitudinal distance	7.56m
Lateral distance	7.6(5.2)m
Lifting height	
Parameters	13m
Full-extend boom	58m
(28m)Full-extend boom+Jib	86m
Boom length	
Parameters	13m
Full-extend boom	58m
(28m)Full-extend boom+Jib	86m

Working speed	
Boom elevating time	
Boom raising	60s
Boom telescoping time	
Full-extending/Retracting	420/400s
Max.swing speed	1.8r/min
Outrigger extending and retracting time	
Outrigger beam extending/Retracting	50/40s
Outrigger jack extending/Retracting	50/45s
Hoisting speed(single rope,4th layer)	
Main winch no load	115m/min
Aux.winch no load	115m/min

QY100K Main Technical Data in Travel State



6th axle

Engine rated output	324/1800 (306/1900)kW/(r/min)
Engine rated torque	2100/1200 (2010/1200)N.m/(r/min)
Engine rated speed	1800 (1900)r/min
Min.ground clearance	310mm
Travel	
Approach angle	23°
Departure angle	15°

≤10m

40%

24m

70L

Power

Braking distance(at 30km/h)

Fuel consumption of 100km

Max.grade ability

Min.turning diameter

QY100K Main Technical Data For Lifting Operation

7800kg 8000kg

Lifting performance	
Max.total rated lifting capacity	100
Min.rated working radius	3n
Turning radius at swing table tail	
At counterweight	4200mn
At auxilary winch	4590mn
Max.load	
Base boom	3450(4m×88t)kN.n
Full-extend boom	1670(24m×7.1t)kN.n
Full-extend boom+Jib	1127(19.2m×6t)kN.n
Outrigger span	
Longitudinal distance	7.56n
Lateral distance	7.6n
Lifting height	
Base boom	12.8n
Full-extend boom	48.8n
Full-extend boom+Jib	66.8n
Boom length	
Base boom	12.8n
Full-extend boom	49n
Full-extend boom+Jib	49+18.1n

Working speed	
Jib offset	0° 、15° 、30°
Boom elevating time	
Boom raising	75s
Boom telescoping time	
Full-extending	160s
Max.swing speed	2r/min
Outrigger extending and retracting time	
Outrigger beam extending/Retracting	25/15s
Outrigger jack extending/Retracting	45/25s
Hoist speed(single line at 4th layer)	
Main winch	105m/min
Aux.winch	104m/min