



XGC55 Lattice Crawler Crane











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XGC55 CRAWLER CRANE

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Product Highlights



Optimized design of transport and assembly/disassembly

- Basic machine is an integrated transport design, without disassembling track frame and boom base, greatly save transport costs and improve the assembly/disassembly efficiency.
- Unique A-frame gantry self-erection technology, no need of cylinder can achieve self- erection, to realize crane quick assembly.
- Single counterweight weighing no more than 4.3t, small auxiliary lifting equipment can achieve complete counterweight assembly.



Optimized hydraulic system design

- Integrated design to reduce failure points, while reserve open space for assembly/ disassembly and mainte-nance.
- Use of highly integrated LUDV main valve, with the functions of multi-complex operation, control of combined flow, high/low speed selection, to ensure operation efficiency.
- Optional unique independent bypass filtration in the industry, strong magnetic adsorption device, strength-ened hydraulic system filtration, and anti-emulsifying ability.



Universal and modular design

Common platform products with fixed jib, single top, both-sided counterweight hook block, luffing mecha-nism, hydraulic pump and main valve block can achieve universal and interchangeable use, greatly reduce purchase, transport and maintenance costs.

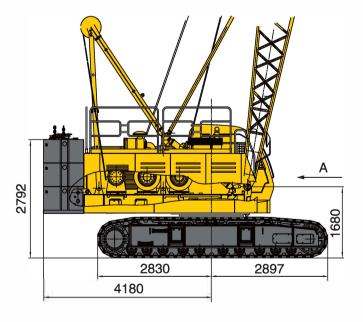


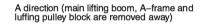
Main / auxiliary hook one-key-switch-over function

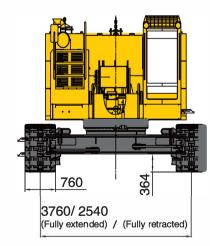
One-key-switch is used to easily achieve main/auxiliary hook switch-over, for wider range of applications.

The Main Technical Parameters

item	∑Unit	Data
Boom working condition	t	55
Boom single pulley working condition	t	6
Max. rated lifting capacity Fixed jib working condition	t	11.4
Max. load moment	t·m	203.5
Boom length	m	13 ~ 52
Boom luffing angle	0	-3 ~ 80
Fixed jib length	m	7~16
Angle between boom and fixed jib	0	10、30
Hoist winch max. single line speed	m/min	125
Boom luffing winch max. single line speed	m/min	87
Max. slewing speed	rpm	2.45
Max. travelling speed	km/h	1.37
Total vehicle mass (55t hook block, 13m boom)	t	46.3
Mean ground pressure	MPa	0.06
Grade-ability Grade-ability	¥i.	30%
Max. mass of single unit in transport state	ŧ	28.6
Max. dimension of single unit in transport state (L×W×H)	m	12.04×3.45×3.3









Brief Introduction



Crane Superstructure

Engine

①Model: Shanghai diesel SC7H210.1G3.

Rated power: 155kW/2000rpm

Max. torque/Max. torque speed: 930N·m/1300-1600rpm

Environmental protection: complaint with Euro III (Stage IIIA) emission standard

2 Optional engine:

Model: WeichaiWP7G270E301

Rated power:199kW/2300rpm

Max. torque/Max. torque speed: 1200N·m/1200~1500rpm;

Environmental protection: complaint with Euro III (Stage IIIA) emission standard

Model: Cummins QSB6.7

Rated power:153kW/1800rpm

Max. torque/Max. torque speed: 931N·m/1300rpm;

Environmental protection: Europe III standard

Fuel tank capacity: 400L.

4)Optional engine:Model: Weichai WP6G190E301

Rated power:140KW/2000rpm

Max. torque/Max. torque speed: 860N·m/1300~1500rpm;

Environmental protection: China GB || standard.

Hydraulic System

Hydraulic system adopts hydraulic proportional pilot control load sense LUDV system, to achieve load-independent flow distribution, with accurate velocity. sensitive operation, stable system and good fine movement. Special LUDV centralized main valve to realize combined operation, with compact structure and easy for maintenance.

Main winch and auxiliary winch has double-pump combined flow function, to easily realize winch high/low speed control. Special slewing buffering circuit design, to realize stable slewing start and stop to meet the requirement of delicate lifting operation.

Hydraulic oil tank capacity: 400L.

Hoist Gear

Main/auxiliary hoist gear has built-in planetary reducer, with negative brake design of multi-plate wet-type laminated constant closed brake, to achieve "spring brake/hydraulic release" function, safe and reliable; maintenance free oil splash lubrication; convenient oil replacement, low noise, high efficiency, long service life and good fine movement function.

Hoist gear drum is made of nodular cast iron with good vibration absorption, double line rope groove to ensure multilayer rope winding, effectively increasing the wire rope service life.

Main hoist gear adopts separate steel core, high breaking force and high anti-extrusion of L-turn special anti-rotation wire rope, rated single line pull 6t, rope diameter φ 20mm, rope length 200m.

Auxiliary hoist gear adopts separate steel core, high breaking force and high anti-extrusion of L-turn special anti-rotation wire rope, rated single line pull 6t, rope diameter φ 20mm, rope length 145m.

The main and auxiliary lifting mechanism can be equipped with free falling

Electrical System

Electrical system mainly includes: engine control, monitoring instruments, auxiliary equipment, hydraulic system control, load moment limit and safety monitoring.

Electrical system composition: conventional electrical system and PLC monitoring system.

Conventional electrical system uses 24V parallel circuit, the electrical equipment wiring is negative ground single system, including power, starter control, cab heating/cooling air conditioner, sound device, lighting (lamps) and wipers.

PLC monitoring system includes the operation control of main/auxiliary winches, boom and tower jib luffing and engine status monitoring. All the crane movements use hydraulic proportional control technology, through PLC logic control based on CAN-bus technology, effectively ensure the realization of the machine functions, and fully reflect the concept of people-oriented design.

	Rated single line pull	6.6t (optional 8t)
Main	Wire rope diameter	20mm (optional 22mm)
hoist gear	Length	200m
	Pated cingle line pull	
	Rated single line pull	6.6t (optional 8t)
Auxiliary	Wire rope diameter	20mm (opyional 22mm)

Luffing Gear

Luffing gear has built-in planetary reducer, with wet-type laminated constant closed brake, to achieve "spring brake/hydraulic release" function. Main luffing drum is made of nodular cast iron with good vibration absorption, double line rope groove to ensure multilayer rope winding, effectively increasing the wire rope service life. Use hydraulic cylinder to drive the ratchet paws of the ratchet locking device on drum to achieve multiple locking protection. Luffing gear adopts separate steel core, high breaking force and high anti-extrusion of L-turn special anti-rotation wire rope, rated single line pull 6t, rope diameter φ 20mm, rope length 103m.

	Rated single line pull	6t
Luffing gear	Wire rope diameter	20mm
Lutting gear	Length	103m

Slewing Gear

Slewing unit and slewing ring is driven by internal meshing, arranged in front of turntable, through a planetary reducer driving a constant motor via pinion to drive slewing ring, so as to achieve 360 ° rotation.

Slewing unit has a built-in planetary reducer, with negative brake design of multi-plate wet-type laminated constant closed brake, to achieve "spring braking/hydraulic release" function, to ensure a high safety brake. Slewing unit also has a mechanical locking device for locking protection of the slewing unit.

The eccentric gear makes better meshing of reducer and slewing bearing and stable slewing. Slewing unit also has a free-swing function to ensure a lifting load aligned to the center line of gravity center even when the lifting hook is not in the center of the vertical center line, and also to eliminate the side load force on the boom, so as to prevent the boom from damage due to a large side loading force.

Turntable

Turntable is a key load bearing structural component to connect crane superstructure and crane undercarriage, main load bearing structure is platform box-type welded by high-strength steel plate, on both sides use welding cantilever structure to increase basic machine space to place and fix load. The turntable is connected with undercarriage by slewing ring. Boom base, mast, hoist gear, luffing gear and counterweight is placed on the main load bearing structure; cab, engine system, main pump, hydraulic valve and electrical control cabinet is placed on the cantilever structures on both sides. The turntable main structure and the cantilever structures on both sides are designed according to the load bearing condition of the basic machine, reasonable structure and good overall strength and rigidity.

Mast

Mast is a double limb structure, with strengthened beam between two limbs for good stability. The main structure of mast is fine seamless steel pipe, with less welding, manufacturing error, and higher safety factor. Combined with self-raising roller, cooperating with boom, can achieve self-assembly/disassembly.

Operator's Cab

Cab is ergonomically designed, fully enclosed, wide field of vision, with smooth line and strength; wider operation vision from large front and side glass, more sense of technology. User-friendly interior layout, all buttons are easy to reach while the operator is seating on seat. Provide comfortable operation environment with adjustable seat, air conditioner, power socket and radio, etc.

Counterweight

Car-body counterweight is total 16.2t, installed in the rear of turntable, and use pin shaft to connect with turntable the composition is the follows: Counterweight tray 1x4.3t, left/right counterweight slab 4x2t, central counterweight slab 2×1.95t.



Brief Introduction



Crane Carrier

Undercarriage consists of car-body and crawler travel gear, with insert-type connection.

Car-body

Car-body is made of high strength steel and welded in box-type H structure good overall rigidity, high strength, and high precision. Precision machining ensures correct slewing ring installation.

Crawler Travel Unit

Crawler travel consisting track frame, crawler shoe, track roller, drive sprocket, guide roller, idle roller, travel device and tension device.

Track frame: symmetrically arranged, one on each side, made of high-strength steel plate welded in box-type structure, insert type connection with car-body, drawer type clearance adjusting device to make sure there is not lateral "/-" type deformation and prevent collision between crawler shoes and lower roller

Track shoe: high strength wear resistant alloy steel casting, width 760mm, total 2x61=122 pieces.

Travel gear: constant close type planetary reducer, axial piston motor drive, strong travel power for movement such as straight travel, turn on site, one side turn, differential turn and travel with load with excellent agility and flexibility. Multiple-disc wet type constant close brake, spring brake, hydraulic lose brake guarantees excellent brake safety.

Max. travelling speed: 1.37/km/h.

Safety Devices

This crane widely uses mechanical, electronic, hydraulic and other safety and alarm devices, in order to ensure safety operation. The safety devices consists LMI, slewing locking, boom backstop, hoist limit, boom angle limit, anemometer, slewing alarm, hydraulic system overflow valve, balance valve, hydraulic lock, and etc.

Load Moment Limiter

The custom-madeHirschmannfeatures little power consumption, strong function, high sensitivity and easy operation.

Detection function: automatically detect boom angle and lifting load.

Display function: large color touch screen LCD display (7.0 inches), with Chinese (or English) and graphically display ofmoment percentage, actual lifting load, rated lifting load, working radius, boom length, boom angle, max. lifting height, working condition code, parts of line, limit angle and information code.

Alarm function: complete pre-warning and overload stop functions. The LMI will automatically send out alarm and stop crane operation when actual lifting load exceeds total rated lifting load and boom is out of limit angle. The system also has self-diagnosis function.

Assembly/Work Mode Switch

In assembly mode, anti-over-wound device, boom limit device and LMI does not work, in order to facilitate crane assembly; in work mode, all safety devices are working.

Emergency Stop Switch

In emergency cases, press this button to stop all crane movement.

Hydraulic System

Hydraulic system is equipped with hydraulic balance valve, and hydraulic overflow valve etc. to ensure system stability and safety.

Over-wound Protection Device

A rope-end limiter is installed in main and auxiliary hoist winch to protect wire rope from over-release from the winch drum. When there is only 3 layers of rope left on main/auxiliary winch, the over-release lamp on display lights on, at the same time, LMI stops lowering down movement.

Winch Over-release Protection Device

A main/auxiliary hoist over-wound protection device is installed on boom head to prevent wire rope from over-wound, when main/auxiliary winch hoists up to a certain height, the over-wound lamp on display lights on, at the same time, LMI stops hoisting up movement.

Winch Ratchet Locking Device

This function is used to lock the main luffing winch to protect the boom for stop work during non-working time.

Mechanical Safety Device

Slewing locking device is used for crane superstructure mechanical limit when the crane stops; the backstop device for boom and jib to prevent boom, iib and strut from backward tipping.

Boom Angle Limit

When boom is raised to the specified angle, the hoist operation is stopped, and controlled by LMI and stroke switch; when boom angle is lower than the required angle, the lowering down operation is topped, and controlled by LMI and send out an audio alarm.

Hook Block Retainer Clamp

All hook blocks are equipped with retainer clamps to prevent the sling falling off from hook head.

Tricolor Warning Lamp

The lamp comprises 3 colors, when crane loading is below 90% of total rated lifting load, "Green Lamp" lights on to indicate crane is working in safety area; when crane loading is in 90% $^\sim$ 100% of total rated lifting load, "Yellow Lamp" lights on to indicate crane is close to total rated lifting load; when crane loading is above 100% of total rated lifting load, "Red Lamp" lights on to indicate crane is overload; In dangerous area, control system can automatically cut off crane movement to the dangerous direction.

Audio/Video Alarm

When the crane is slewing, there is light and sound for alarm.

Illumination Lamp

There are illumination lamps in front of turntable, abovecab and inside cab for night operation.

Rearview Mirror

Rearview mirror is located outside the cab for operator to observecondition of the back of the machine

Height Mark Lamp

Height mark lamp is installed on boom tip for alarm.

Anemometer

Anemometer at boom tip can detect current wind speed and send wind signal to the monitor in cab to alert operator for wind load safety.

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P10-P11 Working Mode Illustration

P12-P12 Boom Combinations

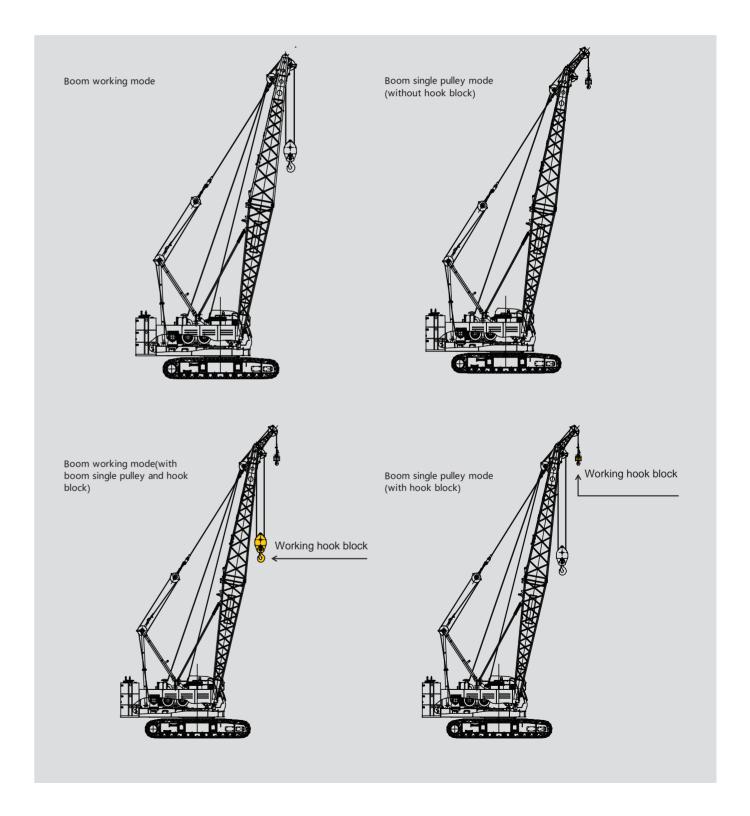
P13-P13 Boom Working Area

P14-P15 Boom Lifting Load Chart

P16-P16 Boom Single Pulley Lifting Load Chart

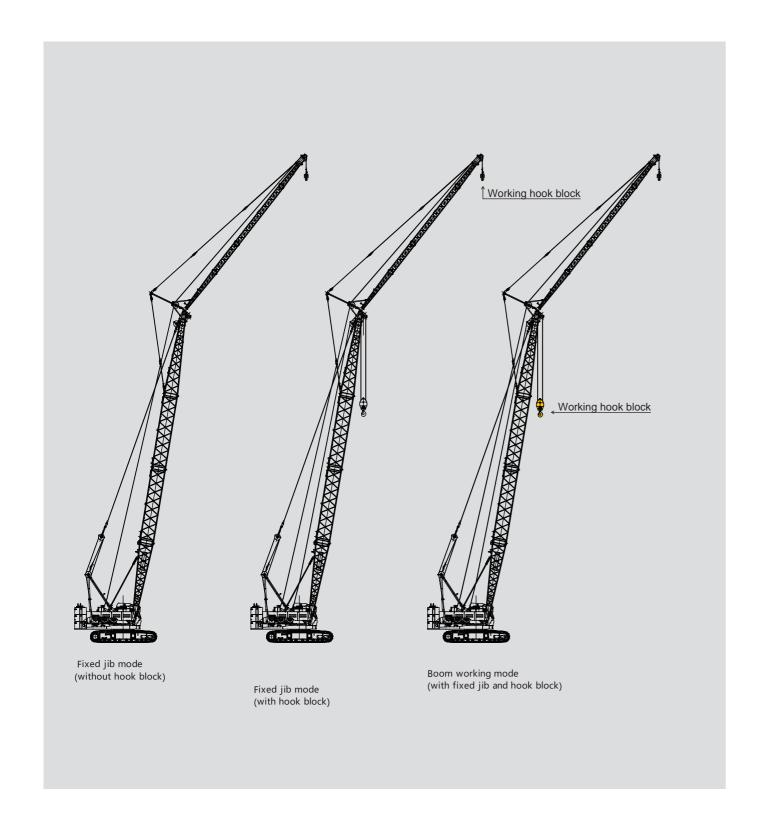


Working Mode Illustration

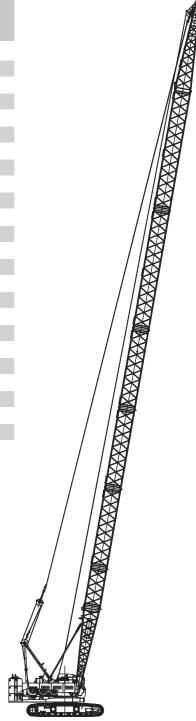


Working Mode Illustration

Boom Combinations



Boom length (m)	6.5m Boom butt	Boor 3m	m insert	9m	6.5m Boom top
		3111	OIII	3111	
13	1	_	_		1
16	1	1	_	_	1
19	1	_	1	_	1
22	1	_	_	1	1
	1	1	1	_	1
25	1	1	_	1	1
23	1	_	2	_	1
28	1	_	1	1	1
20	1	1	2	_	1
	1	_	_	2	1
31	1	1	1	1	1
	1	_	3	_	1
	1	_	2	1	1
34	1	1	_	2	1
	1	1	3	_	1
	1	_	1	2	1
37	1	1	2	1	1
	1	1	1	2	1
40	1	_	3	1	1
	1	_	2	2	1
43	1	1	3	1	1
46	1	1	2	2	1
49	1	_	3	2	1
52	1	1	3	2	1
32	1	1	3	2	1





Boom Lifting Load Chart

Boom length (m) Working radius Working radius (m) 34 37 40 46 49 52 43 8 16.6 16.1 14.7 14.3 13.8 13.4 10 10 13.1 12.8 12.4 12 11.6 11.3 12 12 10.6 10.3 10.1 9.5 9.2 8.9 14 8.6 8.5 8.3 8.1 7.8 7.5 7.5 14 16 16 7.1 7.1 6.3 18 18 6 5.9 5.8 5.6 5.3 5.4 20 5.2 5.1 4.8 4.6 4.6 20 22 22 4.5 4.4 4.3 3.9 4.2 4.1 4 24 24 3.9 3.8 3.5 3.4 3.3 26 3.4 3.3 3.3 3.2 3.1 2.9 26 3 28 28 3 2.9 2.9 2.7 2.6 2.4 30 30 2.7 2.6 2.5 2.4 2.3 2.1 2.2 32 32 2.3 2.2 1.9 1.8 34 34 1.9 1.9 1.7 1.6 1.5 36 36 1.5 1.4 1.3 1.6 38 38 1.4 1.3 1.2 1.1 40 1.1 8.0 40

Boom Single Pulley Lifting Load Chart

Working radius							Boom	length	(m)						Working radius
(m)	13	16	19	22	25	28	31	34	37	40	43	46	49	52	(m)
5	6														5
6	6	6	6												6
7	6	6	6	6	6										7
8	6	6	6	6	6	6	6								8
9	6	6	6	6	6	6	6	6	6						9
10	6	6	6	6	6	6	6	6	6	6	6				10
12	6	6	6	6	6	6	6	6	6	6	6	6	6		12
14		6	6	6	6	6	6	6	6	6	6	6	6	6	14
16			6	6	6	6	6	6	6	6	5.8	5.5	5.3	5.3	16
18				5.4	5.3	5.2	5.1	5	5	4.9	4.8	4.6	4.3	4.4	18
20				4.5	4.5	4.3	4.3	4.2	4.1	4	3.9	3.8	3.6	3.6	20
22					3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3	2.9	22
24						3.1	3	2.9	2.8	2.7	2.6	2.5	2.4	2.3	24
26							2.5	2.4	2.3	2.3	2.2	2.1	2	1.9	26
28								2	1.9	1.9	1.8	1.7	1.6	1.4	28
30								1.7	1.6	1.5	1.4	1.3	1.2	1.1	30
32									1.3	1.2	1.1	1	0.9	0.8	32
34										0.9	0.9	0.7	0.6		34



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P18-P18 Fixed Jib Combinations

P19-P19 Fixed Jib Working Area

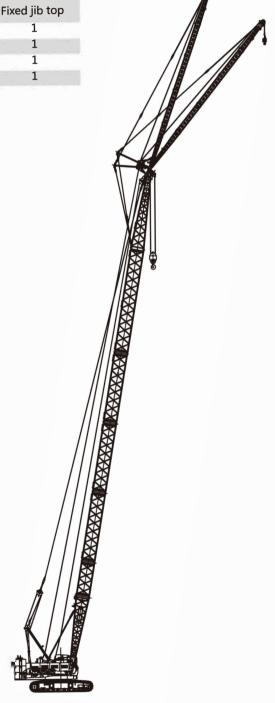
P20-P26 Fixed Jib Lifting Load Chart

P27-P29 Main Parts

P30-P30 Working conditions and Cautions

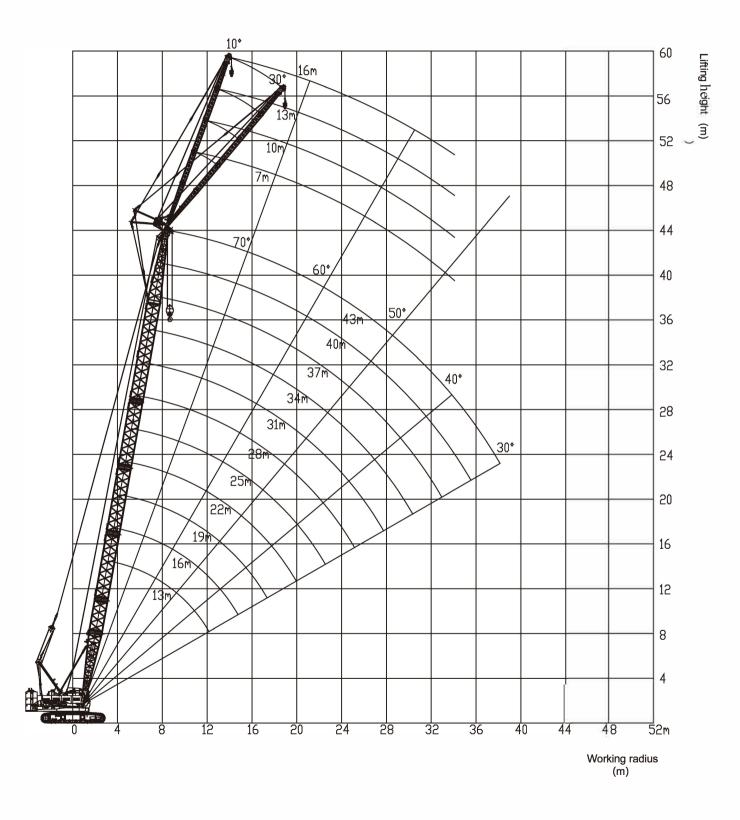
Fixed Jib Combinations

= 1"11 1 4 ()	Fixed jib butt	Fixed jik 3m	sert 6m	Fixed jib top
Fixed jib length (m)	1		_	1
10	1	1	-	1
13	1	_	1	1
16	1	1	1	1





Fixed Jib Lifting Load Chart



Boom length(m)		25									
Jib length(m)	7		10		13		1	6	Jib length(m)		
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)		
Working radius(m)									Working radius(m)		
10	11.4	9.8							10		
11	11.1	9.6							11		
12	10.7	9.5	7.6	6.4					12		
13	9.7	9	7.4	6.2					13		
14	8.8	8.9	7.2	6.1	5.6	4.8			14		
15	8	8.2	7.1	6	5.5	4.7	4.3		15		
16	7.3	7.5	6.9	5.9	5.4	4.6	4.2		16		
18	6.2	6.3	6.2	5.8	5.1	4.5	3.9	3.4	18		
20	5.3	5.4	5.3	5.5	4.9	4.3	3.7	3.2	20		
22	4.6	4.7	4.6	4.8	4.7	4.2	3.5	3.1	22		
24	4	4.1	4.1	4.2	4.1	4.1	3.4	3	24		
26	3.5	3.6	3.6	3.7	3.6	3.8	3.2	2.9	26		
28	3.1	3.1	3.2	3.2	3.2	3.3	3.1	2.8	28		
30			2.8	2.9	2.9	3	2.9	2.7	30		
32			2.5	2.5	2.5	2.6	2.6	2.6	32		
34					2.3	2.3	2.3	2.4	34		



Fixed Jib Lifting Load Chart

Boom length(m)	ž.	28										
Jib length(m)	7	7	10		13		1	6	Jib length(m)			
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)			
Working radius(m)									Working radius(m)			
10	11.4								10			
11	11.2	9.6							11			
12	10.7	9.5	7.7						12			
13	9.6	9.4	7.5	6.3					13			
14	8.7	8.9	7.3	6.2	5.7				14			
15	7.9	8.1	7.2	6.1	5.6	4.8			15			
16	7.2	7.4	7	6	5.4	4.7	4.2	3.6	16			
18	6	6.2	6.1	5.8	5.2	4.5	4	3.4	18			
20	5.2	5.3	5.2	5.4	5	4.4	3.8	3.3	20			
22	4.5	4.6	4.5	4.7	4.6	4.3	3.6	3.1	22			
24	3.9	4	3.9	4.1	4	4.1	3.5	3	24			
26	3.4	3.5	3.5	3.6	3.5	3.7	3.3	2.9	26			
28	3	3	3.1	3.1	3.1	3.3	3.1	2.8	28			
30	2.6	2.7	2.7	2.8	2.7	2.9	2.8	2.7	30			
32	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	32			
34			2.1	2.1	2.2	2.2	2.2	2.3	34			

Boom length(m)		31								
Jib length(m)	7	7	10		13		1	6	Jib length(m)	
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)	
Working radius(m)									Working radius(m)	
11	11.4	9.7							11	
12	10.4	9.5							12	
13	9.5	9.4	8.6	6.3					13	
14	8.6	8.8	8.4	6.2					14	
15	7.8	8	7.9	6.1	6	4.8			15	
16	7.1	7.3	7.2	6	6	4.7	5.1		16	
18	5.9	6.1	6	5.9	6	4.6	4.6	3.5	18	
20	5.1	5.2	5.1	5.4	5.2	4.4	4.4	3.3	20	
22	4.4	4.5	4.4	4.6	4.5	4.3	4.2	3.2	22	
24	3.8	3.9	3.9	4	3.9	4.1	3.9	3.1	24	
26	3.3	3.4	3.4	3.5	3.4	3.6	3.4	3	26	
28	2.9	3	3	3.1	3	3.2	3	2.9	28	
30	2.5	2.6	2.6	2.7	2.7	2.8	2.7	2.8	30	
32	2.2	2.3	2.3	2.4	2.3	2.5	2.4	2.5	32	
34	2	2	2	2.1	2.1	2.2	2.1	2.2	34	



Fixed Jib Lifting Load Chart

	ı.										
Boom length(m)		34									
Jib length(m)	7	7	10		13		16		Jib length(m)		
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)		
Working radius(m)									Working radius(m)		
11	11.1								11		
12	10.1	9.5							12		
13	9.2	9.4	6						13		
14	8.4	8.7	6	6					14		
15	7.6	7.9	6	6	6				15		
16	7	7.2	6	6	6	4.7			16		
18	5.8	6	5.9	5.9	6	4.6	4.6	3.5	18		
20	5	5.1	5	5.3	5.1	4.5	4.4	3.4	20		
22	4.3	4.4	4.3	4.5	4.4	4.4	4.3	3.2	22		
24	3.7	3.8	3.7	3.9	3.8	4.1	3.8	3.1	24		
26	3.2	3.3	3.3	3.4	3.3	3.5	3.3	3	26		
28	2.8	2.9	2.8	3	2.9	3.1	2.9	2.9	28		
30	2.4	2.5	2.5	2.6	2.5	2.7	2.6	2.8	30		
32	2.1	2.2	2.2	2.3	2.2	2.4	2.2	2.4	32		
34	1.9	1.9	1.9	2	2	2.1	2	2.1	34		

Boom length(m)		37								
Jib length(m)	7	7		10		13		6	Jib length(m)	
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)	
Working radius(m)									Working radius(m)	
12	6	6							12	
13	6	6							13	
14	6	6	6	6					14	
15	6	6	6	6					15	
16	6	6	6	6	6	4.7			16	
18	5.8	6	5.8	5.9	5.8	4.6	4.7	3.5	18	
20	4.9	5.1	5	5.2	5	4.5	4.5	3.4	20	
22	4.2	4.3	4.2	4.5	4.3	4.4	4.3	3.3	22	
24	3.6	3.7	3.7	3.9	3.7	4	3.7	3.2	24	
26	3.1	3.2	3.2	3.3	3.2	3.5	3.2	3.1	26	
28	2.7	2.8	2.8	2.9	2.8	3	2.8	3	28	
30	2.3	2.4	2.4	2.5	2.5	2.6	2.5	2.7	30	
32	2	2.1	2.1	2.2	2.1	2.3	2.2	2.4	32	
34	1.8	1.8	1.8	1.9	1.9	2	1.9	2.1	34	

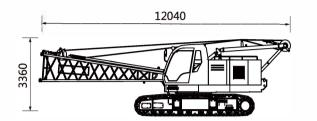


Fixed Jib Lifting Load Chart

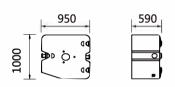
Boom length(m)		40								
Jib length(m)	7	,	10		13		16		Jib length(m)	
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)	
Working radius(m)	6								Working radius(m)	
13	6	6							13	
14	6	6	6						14	
15	6	6	6	6					15	
16	6	6	6	6	6				16	
18	5.6	5.8	5.6	6	5.8	4.6	4.7	3.5	18	
20	4.8	5	4.8	5.1	4.9	4.5	4.5	3.4	20	
22	4.1	4.2	4.1	4.4	4.2	4.4	4.2	3.3	22	
24	3.5	3.6	3.6	3.8	3.6	3.9	3.6	3.2	24	
26	3	3.1	3.1	3.3	3.1	3.4	3.2	3.1	26	
28	2.6	2.7	2.7	2.8	2.7	2.9	2.7	3	28	
30	2.2	2.3	2.3	2.4	2.4	2.6	2.4	2.6	30	
34	17	1.7	1.7	1.8	1.8	1.9	1.8	2	34	

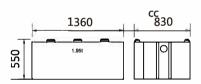
Boom length(m)	43				Boom length(m)				
Jib length(m)	7		10	0	10	3	10	6	Jib length(m)
Jib angle(°)	10	30	10	30	10	30	10	30	Jib angle(°)
Working radius(m)	6	6							Working radius(m)
14	6	6							14
15	6	6	6	6					15
16	6	6	6	6					16
18	5.4	5.6	5.6	5.9	5.6	4.6	4.7		18
20	4.6	4.8	4.8	5.1	4.8	4.5	4.5	3.4	20
22	4	4.2	4.1	4.3	4.1	4.4	4.1	3.3	22
24	3.4	3.6	3.5	3.7	3.5	3.8	3.6	3.2	24
26	2.9	3.1	3	3.2	3	3.3	3.1	3.1	26
28	2.5	2.6	2.6	2.7	2.6	2.9	2.6	3	28
30	2.1	2.3	2.2	2.4	2.3	2.5	2.3	2.6	30
32	1.8	1.9	1.9	2	1.9	2.1	2	2.2	32
34	1.6	1.6	1.6	1.7	1.7	1.8	1.7	1.9	34

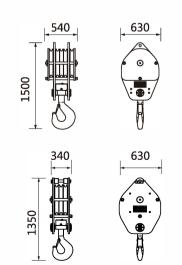




ļ•	3360	→ ***
Θ	d	1000 P







×1
12040mm
3450mm
3360mm
28.6 t

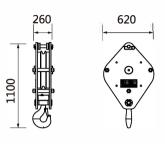
Counterweight support	×1
(L)	3360mm
(W)	1000mm
(H)	840mm
(W)	4.3t

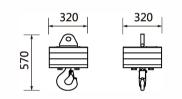
Left and right counterweight slabs	×4
(L)	1000mm
(W) (H)	950mm
(V)	590mm
•	2.0t

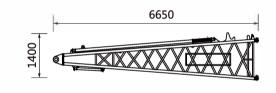
Central counterweight slab	×2
	1360mm
(L) (W)	830mm
(H)	550mm
(W)	1.95t

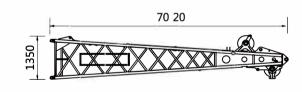
55t Hook block	×1
(L)	540mm 630mm
(W) (H)	1500mm
(W)	0.62t

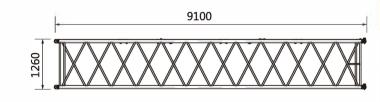
32t Hook block	×1
(L)	340mm
(W)	630mm
(H)	1350mm
(W)	0.35 t

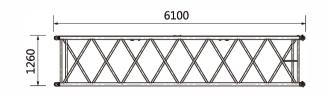












16t Hook block	×1
(L)	260mm
(W)	620mm
(H)	1100mm
(W)	0.28t

8t Hook block	×1
(L)	320mm
(W)	320mm
(H)	570mm
(W)	0.14t

6.5m boom butt	×1
(L)	6650mm
(W)	1400mm
(H)	1400mm
(W)	0.89t

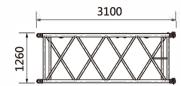
6.5m boom top	×1
(L)	7020mm
(W)	1400mm
(H)	1350mm
(W)	0.83t

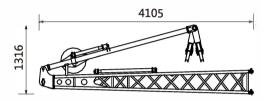
9m boom insert section	×2
(L)	9100mm
(W)	1400mm
(H)	1260mm
(W)	0.65t

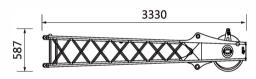
6m boom insert section	×3
(L)	6100mm
(W)	1400mm
(H)	1260mm
(W)	0.45t

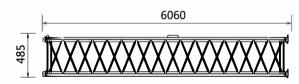
Main parts

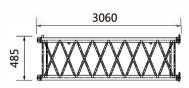


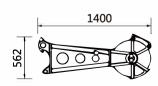












3m boom insert section	×1
(L)	3100mm
(W)	1400mm
(円)	1260mm
(<u>W)</u>	0.26 t

Fixed jib butt (including strut)	×1
(L)	4105mm
(W)	700mm
(首)	1316mm
(<u>W)</u>	0.416t

Fixed jib top	×1
(L)	3330mm
(W)	655mm
(日)	587mm
(W)	0.216t

Fixed jib 6m	×1
(L)	6060mm
(W)	655mm
(首)	485mm
(W)	0.192t

Fixed Jib 3m	×1
(L)	3060mm
(W)	655mm
(首)	485mm
(W)	0.104t

Boom end pulley assembly	×1
(L)	1400mm
(W)	625mm
(首)	562mm
(W)	0.093t

Working conditions and Cautions

Working conditions

- 1. The crane working conditions: boom length ≤50m when wind speed is less than 14.1m/s; boom length > 50m when wind speed is less than 9.8m/s; the ambient temperature is -20°C ~ +40°C; and the ground gradient is less than 1%.
- 2. The rated lifting load in the chart are the maximum lifting capacity on the condition that the given working conditions are met and the load is in the state of free suspension and lifted slowly from the solid ground. Operators should limit or reduce lifting capacity according to different conditions (such as soft or uneven ground, wind force, side loading, oscillating action, several crane cooperate-lifting). The rated lifting capacity in the chart includes the weight of main hook block, wire rope and all slings. The weight of each hook block and boom single top is shown in the table below:

55t hook b1ock	32t hook b1ock	16t hook b1ock	8t hook block	Boom 5ign1e top
0.62 ton	0.35 ton	0.28 ton	0.14 ton	0.093 ton

- 4. The blank area of the chart where no rated lifting load listed is regarded as non-operation area, so crawler crane is not allowed to carry out lifting operation in this area.
- 5 . The lifting load in the chart includes the lifting capacity of full counterweight.
- 6 . This crawler crane is allowed to travel slowly with a suspended load, boom and boom single pulley working mode the maximum load weight is 90% of rated lifting load given in the load chart; fixed jib working mode the maximum load weight is 50% of rated lifting load given in the load chart for the crane travel.
- 7. Selection of hook block and parts of line

In any case, the selection of hook block must satisfy that the hook block rated lifting load is more than or equal to the actual lifting load (including wire rope, slings and etc.).

Parts of line is according to the table below:

(Parts of line	1	2	3	4	5	6	7	8	9	10
Max. lifting load	6	12	18	23	29	35	40	45	50	55

The one part of line is used for boom single top.