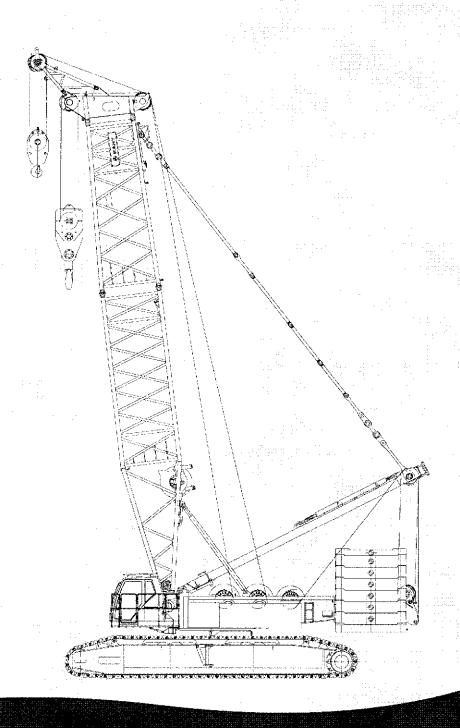
Crawler Crane Series SCC3200

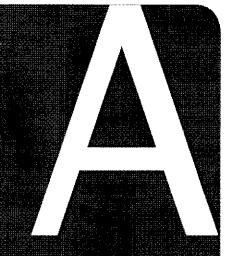




03 SCC3200 crawler crane Basic Dimensions of the Whole Machine 04 Main Technical Features 05 06 Performance Data 07 **Transport Dimensions** 12 Transportation Solution Assembly/Disassembly Diagram 16 **Specifications** 18 19 Superworks 21 Lowerworks 22 Operation Devices Safety Devices 23

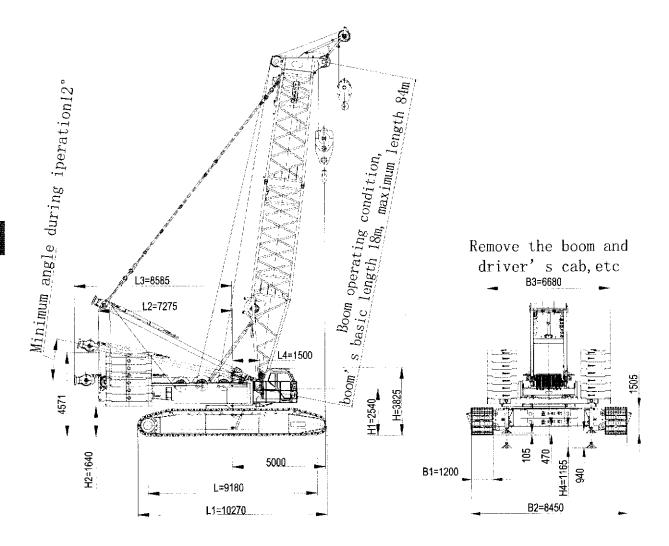
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- 04 Basic Dimensions of the Whole Machine
- 05 Main Technical Features
- 06 Performance Data
- 07 Transport Dimensions
- 12 Transportation Solution
- 16 Assembly/Disassembly Diagram

Basic Dimensions of the Whole Machine



Main Technical Features

- 1. Safety control system: The two operating modes of operating and assembling are convenient and reliable; the crane has the functions of real-time display of gravity and levelness of machine, off-line stop action, emergency electric control, lightning protection, automatic traveling direction adjustment, closed circuit monitor, etc., the safety and monitoring devices are complete;
- 2. Outstanding operating performance: Load sensing, limit load adjustment and electro-hydraulic proportion dead slow control offer the perfect inching performance of actions, and more stable operation;
- 3. Reliable function assurance: The key components are all of world-renowned brands; the designed safety margin of structures and members are sufficient; the control system can operate stably under the harsh environments, such as extreme cold, high temperature environments, plateau or sand wind areas:
- 4. Convenient maintenance technology: The time to access daily maintenance position is no more than 10min/person, that of a position requiring daily care is no more than 30min/person, and the maximum maintenance access time is no more than 2h/person: GPS remote monitoring system is equipped to facilitate maintenance and management of equipment;
- 5. Powerful lifting capacity: The maximum lifting capacity of boom is 320t/5m, the maximum lifting moment 2192t.m, and the fully extended boom 84m; the longest luffing jib combination of is 66.7m+66m, and the longest fixed jib combination 85m+9m;
- 6. Large-chassis design: The chassis designed with 7.25m gauge ensures excellent operation stability within 360° rotation range;

- 7. Optimized transport solution: The package transportation of boom reduces the transportation costs for users to the largest extent;
- 8. Easy and convenient assembly and disassembly: The crawler frame can be assembled and disassembled by itself to provide convenient assembly options for customers;
- Strong load travel capability: Powerful tracking force and travel smoothness bring the advantages of crawler crane into full play;
- 10. Reliable transmission system: The hydraulic elements from world-renowned brands and the load feedback control technology with independent intellectual property ensure the smooth operation and high reliability of hydraulic system;
- 11. Electric control software with independent property right: All operations are controlled with computer, and the system is simple and thus more convenient to maintain; it has a friendly humanmachine interface and fault self-diagnosis function with high reliability; the standard operation information is displayed in the form of graphic symbols, with many languages available.
- 12. Centralized lubrication: A centralized lubrication system under auto-control provides automatic lubrication to the whole crane and reduces servicing time and maintenance frequency;
- 13. Broad adaptability: It complies with the CE, North American, Australian, and Asian certification requirements, and the Cummins engine used fully complies with U.S. EPA Tier III and EU Stage III emission standard, which is environment-friendly and energy-saving, with less pollution.





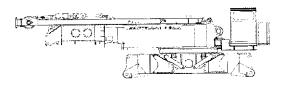
Performance Data

Main Performance Data

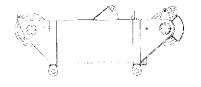
Main performance	data of SCC3200 crawler crane	
	Max. lifting capacity/ operating radius	320 t/5 m (basic arm 18m)
Boom operating	Length of boom	18~84 m
condition (H)	Boom luffing angle	30°~85°
	Max. lifting torque	274t×8m=2192 tm
Operating	Max. lifting capacity/ operating radius	130 t/7m (Boom with variable section 44.2m)
with variable	Length of boom with cross section of reducing boom	44.2~104.2m
section (HJ)	Luffing angle of boom with cross section of reducing boom	30°~85°
Operating	Max. lifting capacity/ operating radius	140 t/10 m (Boom 24.7m + luffing jib 24m)
Condition of	Boom + luffing jib	(24.7~66.7)+(24~66) m
Luffing Jib (LJ)	Luffing angle of boom	65°~85° (87°)
	Luffing angle of luffing jib	12°~79°
Operating	Max. lifting capacity/ operating radius	75 t/10 m (Boom 37m + fixed jib 9m)
Condition of Fixed		37~85 m
Jib (FJ)	Luffing angle of boom	40°~85°
	Angle of fixed jib	12°, 30.5°
Operating condition of extension arm (*****C)		Equipped with extended arm, it can be used in many operating conditions
	Rope speed of main (auxiliary) winch (outermost working layer)	0~144 m/min
	Rope speed of main luffing winch (outermost working layer)	(0~60)×2 m/min
Speed parameters	Rope speed of auxiliary luffing winch (outermost working layer)	0~85 m/min
	Slewing speed	0~1.4 rpm
	Travel Speed	0~1.26/0~0.47 km/h
	Gradeability	More than 20%
Engine	Output power/rated speed	298 kW/2100 rpm
	Emission standard	U.S. EPA Tier III and EU Stage III
Transportation	Maximum transport weight of single piece	57 t
parameters	Transport dimensions (length X width X height)	12650×3400×3450 mm 340t
Weight	Crane weight	(The rear weight of basic machine 150t, central counterweight 40t, and basic arm 18m)
Ground pressure	Average ground pressure	0.17MPa

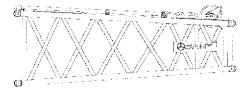
Transport Dimensions

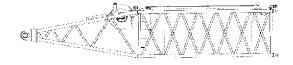
Length 12.65m Width 3.4m Height 3.45m Weight 57 t Crawler assembly x2 Length 10.3m Width 1.5m Height 1.5m Weight 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 2.5 t 12m boom insert A x4 Leight 2.4m	Crane body	×1
Height 3.45m Weight 57 t Crawler assembly x2 Length 10.3m Width 1.5m Height 1.5m Weight 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Height 2.6m Height 2.4m Weight 2.5 t 12m boom insert A x4 Length 2.6m Height 2.5 t 12m boom insert A x4 Length 2.6m Height 2.6m	Length	12.65m
Weight 57 t Crawler assembly x2 Length 10.3m Width 1.5m Height 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 2.42m Weight 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 2.6m	Width	3.4m
Weight 57 t Crawler assembly x2 Length 10.3m Width 1.5m Height 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.4m Weight 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 2.6m	Height	3.45m
Length 10.3m Width 1.5m Height 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m		57 t
Width 1.5m Height 1.5m Weight 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 2.42m Weight 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.6m	Crawler assembly	x2
Height 1.5m Weight 30 t 320t boom head x1 Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.6m Height 2.6m	Length	10.3m
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320t boom head x1 Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.4m Weight 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 2.6m Height 2.6m	Height	1.5m
Length 3.24m Width 2.25m Height 1.34m Weight 3.0 t Boom transitionl section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.6m	Weight	30 t
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Height 1.34m Weight 3.0 t Boom transition section x1 Length 6.2m Width 2.6m Height 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.4m	Length	3.24m
Weight 3.0 t Boom transition section x1 Length 6.2m Width 2.6m Height 2.42m Weight 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.6m	Width	2.25m
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Weight 3.0 t Boom base (including winch) x1 Length 11.6m Width 2.6m Height 2.6m Weight 11.3 t 6m boom insert x1 Length 6.2m Width 2.6m Height 2.4m Weight 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.6m Height 2.6m	Width	2.6m
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Length 6.2m Width 2.6m Height 2.4m Weight 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.4m	Weight	11.3 t
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Height 2.4m Weight 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.4m	Length	6.2m
Weight 2.5 t 12m boom insert A x4 Length 12.2m Width 2.6m Height 2.4m	Width	2.6m
12m boom insert Ax4Length12.2mWidth2.6mHeight2.4m	Height	2.4m
Length 12.2m Width 2.6m Height 2.4m	Weight	2.5 t
Width 2.6m Height 2.4m	12m boom insert A	x4
Height 2.4m	Length	12.2m
	Width	2.6m
Weight 4.3 t	Height	2.4m
	Weight	4.3 t

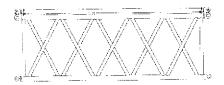


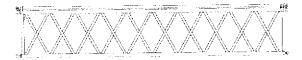








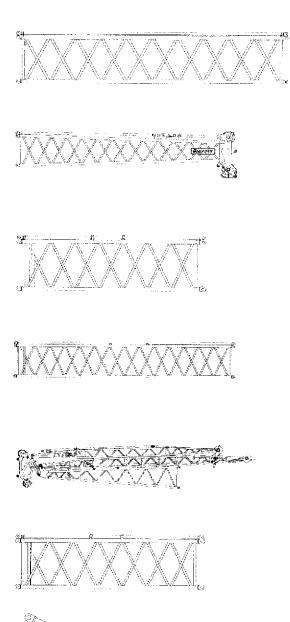




SCC3200 Crawler Crane Series **Transport Dimensions**

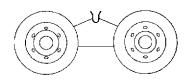
Transport Dimensions

12m boom insert B	x1
Length	12.2m
Width	2.6m
Height	2.4m
Weight	4.3 t
Jib tip	x1
Length	9.5m
Width	2.22m
Height	2.5m
Weight	3.5 t
Jib 6m insert	x1
Length	6.2m
Width	2.22m
Height	2.0m
Weight	1.5 t
Jib 12m insert	x 3
Length	12.2m
Width	2.22m
Height	2.0m
Weight	2.6 t
Assembling unit of jib b jib luffing mast, jib fixed connecting section	asic arm, mast and ×1
Length	18m
Width	2.3m
Height	3.3m
Weight	15.2 t
Boom 6m transition section	n x1
Length	6.2m
Width	2.22m
Height	2.0m
Weight	1.5 t
Extension arm	x1
Length	2.4m
Width	1.1m
Height	1.8m
Weight	0.6 t

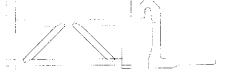


Transport Dimensions

Trolley	x1
Length	2.6m
Width	1.6m
Height	1.0m
Weight	0.9 t
Central counterweight block	x4
Length	3.1m
Width	1.1m
Height	0.51m
Weight	10 t
Central counterweight hook	x2
Length	1.59m
Width	0.87m
Height	0.96m
Weight	0.5 t
Rear counterweight frame	×1
Length	6.4m
Width	2.5m
Height	0.43m
Weight	20 t
Rear counterweight block	x12
Length	2.5m
Width	1.6m
Height	0.46m
Weight	10 t
Rear counterweight	×2
Length	2.5m
Width	1.6m
Height	0.26m
Weight	5 t
Main hoisting winch mechan	ism x1
Length	2.2m
Width	1.13m
Height	1.15m
Weight	5.2 t









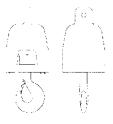


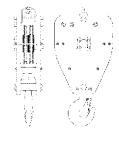


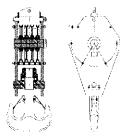


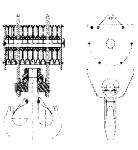
Auxiliary hoisting winch mecha	nism x1
Length	2.2m
Width	1.13m
Height	1.15m
Weight	4.4 t
15t hook block	x 1
Length	0.46m
Width	0.46m
Height	1.2m
Weight	0.8 t
50t hook block	x1
Length	0.80m
Width	0.60m
Height	2.15m
Weight	2.4 t
100t hook block	x 1
Length	0.80m
Width	0.70m
Height	2.25m
Weight	3.0 t
150t hook block	x1
Length	1.35m
Width	0.90m
Height	2.30m
Weight	4.6 t





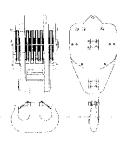






Transport Dimensions

200t hook block	x 1
Length	1.45m
Width	0.90m
Height	2.50m
Weight	5.0 t
320t hook block	x 1
Length	1.80m
Width	1.10m
Height	3.40m
Weight	7.7 t







Notes:

- (1) The transport dimensions of the parts are marked on schematic diagrams, but not drawn by scale; the dimensions indicated are the design values excluding package.
- (2) The weight is the design value and there may be tiny difference due to the manufacturing calibration.

Platform truck: 12m in length, 3.2m in width, and

0.9m in height Rated load: 60t

Transport components: basic machine, and main

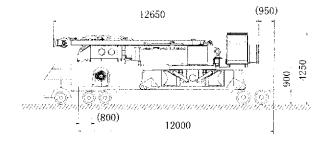
hoisting mechanism Transport weight: 60t Quantity: 1 truck

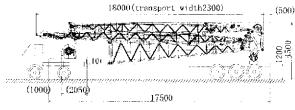
Platform truck: 17.5m in length, 3.2m in width, and 1.2m in height

Rated load: 30t

Transport components: assembling unit of jib base, jib luffing mast, jib fixed mast and connecting section, central counterweight block (1x10t), and auxiliary hoisting mechanism

Transport weight: 29t Quantity: 1 truck





Platform truck: 12m in length, 3.2m in width, and

0.9m in height Rated load: 60t

Transport components: two crawler frame

assemblies

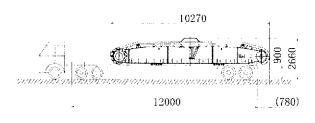
Transport weight: 60t Quantity: 1 truck

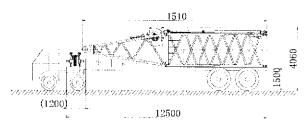
Platform truck: 12.5m in length, 3m in width, and

1.5m in height Rated load: 30t

Transport components: boom base (including jib luffing winch), central counterweight block (1x10t), rear counterweight block (1x5t), and extension arm

Transport weight: 26t Quantity: 1 truck





Platform truck: 12.5m in length, 3m in width, 1.5m in

height

Rated load 30t

Transport components: boom 6m arm, jib 6m insert, boom transitional section, and rear counterweight

block (2x10t)

Transport weight: 27t Quantity: 1 truck

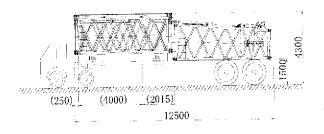
Platform truck: 12.5m in length, 3m in width, and

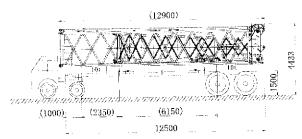
1.5m in height Rated load 30t

Transport components: 12m boom insert A, jib tip,

and rear counterweight block (2x10t)

Transport weight: 28t Quantity: 1 truck



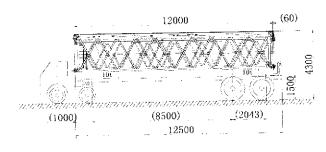


Platform truck: 12.5m in length, 3m in width, and

1.5m in height Rated load 30t

Transport components: 12m boom insert A, 12m jib insert, rear counterweight block (2x10t), central

counterweight hook Transport weight: 27t Quantity: 1 truck



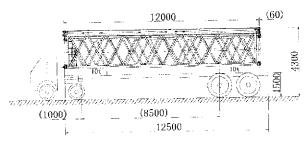
Platform truck: 12.5m in length, 3m in width, and 1.5m in height

Rated load 30T

Transport components: 12m boom insert A, and

rear counterweight block (2x10t)

Transport weight: 27t Quantity: 2 trucks



Platform truck: 12.5m in length, 3m in width, and 1.5m in height

Rated load 30t

Transport components: boom 12m boom insert B, rear counterweight block (2x10t), and rear

counterweight block (1x5t) Transport weight: 29t Quantity: 1 truck

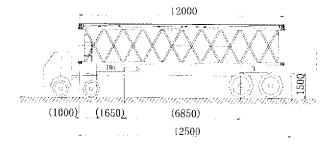
Platform truck: 12m in length, 3.2m in width, and

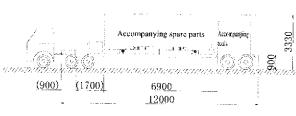
0.9m in height Rated load 60t

Transport components: rear counterweight tray, central counterweight block (1x10), accompanying

spare parts, and accompanying tools

Transport weight: 58t Quantity: 1 truck





Platform truck: 12.5m in length, 3m in width, and

1.5m in height Rated load: 30t

Transport components: 320t lifting hook, 200t lifting hook, 100t lifting hook, 15t lifting hook, boom head, central counterweight block (1x10t), and trolley

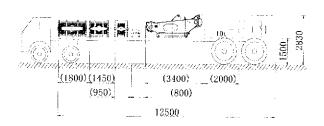
Transport weight: 29t Quantity: 1 truck

Platform truck: 12.5m in length, 3m in width, 1.5m in

Rated load 30t

Transport components: packaging box II, and

packaging box III Transport weight: 15t Quantity: 1 truck



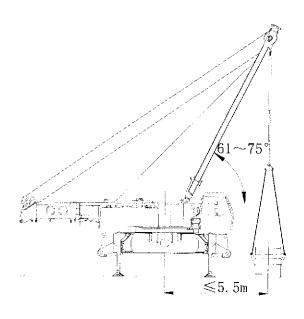


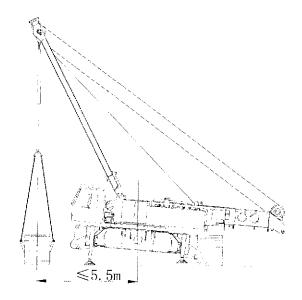
Remarks:

- 1. All the loading heights do not include the height of cushion block. The dimensions with () in figures are the reference dimensions for placement position.
- 2. All components must be fixed well to prevent the sliding against the platform truck in case of sharp turning and sharp braking of vehicle.
- 3. On the transportation process (including loading and unloading), it must be ensured that the components are protected from damage and the paint on the surface of components is kept intact.

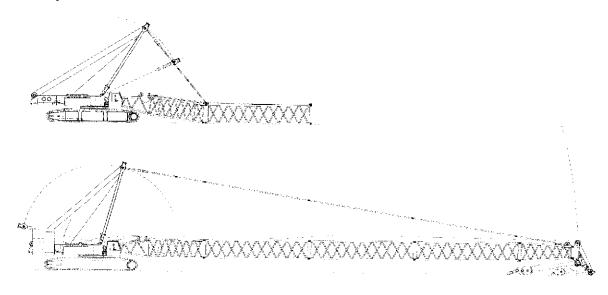
Assembly/Disassembly Diagram

Self-assembly/disassembly of crawler frame:



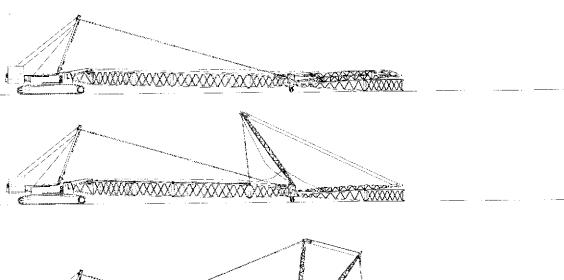


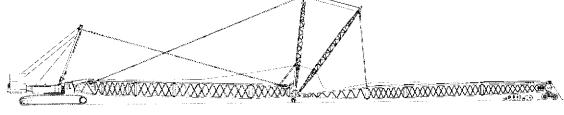
Assembly of boom:

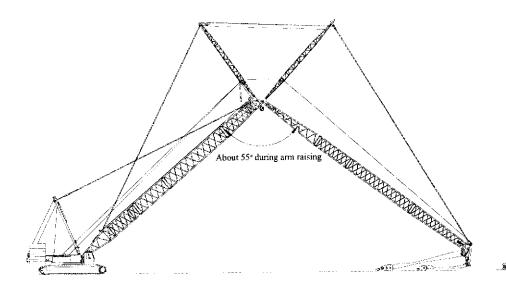


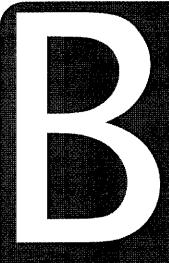
Assembly/Disassembly Diagram

Self-assembly/disassembly of crawler frame:









Superworks			19
Lowerworks			21
Operation D	evices		22
Safety Device	ces		23



Superworks

■ Engine

American Cummins QSM11 type, turbocharging, air cooled four-stroke diesel engine, with the rated power of 298kW and rated speed of 1800rpm, maximum output torque is 1898N•m, rotating speed at maximum output torque 1400rpm, complying with U.S. EPA Tier III and EU Stage III emission standards.

A fuel tank with a volume of 600L is equipped.

■ Electric Control System

The system consists of central control unit, humanmachine interface, actuator, and connecting harness, etc.

CAN bus technology is used for data communication among the controller, display, engine, load moment limiter, and remote control terminal, which is famous for its high system reliability.

The display may indicate working parameters, e.g. engine rotational speed, fuel volume, engine oil pressure, servo pressure, wind speed, engine working hours, etc., and working states, e.g. main winch lockup, main luffing lockup, slewing lockup, etc.

Safety: Electric design fully complies with the CE standard, and multi-level safety limit control, various safety signal indications are complete. Main components comply with the CE and North American standards.

Reliability: The main electric devices are of famous brands in the world, which mainly include load moment limiter, controller, display, sensor, monitoring switch, manipulation switch, wires and cables.

Comfort: The electric parameters at various points can be clearly shown on the instruments, including operation data like engine speed, fuel quantity, oil pressure, servo pressure, wind speed, engine operation duration, and the operation statuses like main reel locking, main luffing locking, slewing lock. Separated design of assembling mode and operating mode fixes major hydraulic actions and hence reduces the operating work strength of operator.

Advancement: the electric CAN bus system includes: the whole truck, load power limit load control, redundant communication check, and optional global positioning and remote monitoring scheme.

■ Hydraulic System

The hydraulic system consists of three parts: main hydraulic system, slewing hydraulic system, servo hydraulic system, auxiliary system, etc. Most hydraulic components are provided by Kawasaki of Japan.

The main hydraulic system is an open circuit system, which includes the traveling, slewing, main hoisting, auxiliary hoisting, main and auxiliary luffing mechanisms. The system pressure is 31.4MPa.

■ Main and Auxiliary Hoisting Mechanisms

The Kawasaki hydraulic motor drives the planet gear speed reducer to realize the lifting and dropping of main/auxiliary winch.

It provides superior dead slow speed property, and the maximum amplifying factor of main hoist is 28. The polyline drum ensures the smooth multi-layer winding.

8003200 Grawler Grane Series Specifications

Main and auxiliary hoisting winches

Drum diameter	640mm
Rope speed of the outermost working layer	0~144 m/min
Wire rope diameter	26 mm
Wire rope length of main winch	900m
Rope speed of the outermost working layer	0~128m/min

Auxiliary Hoisting Mechanism

Drum diameter	640mm
Rope speed of the outermost working layer	0~144 m/min
Wire rope diameter	26 mm
Wire rope length of auxiliary winch	480m
Rope speed of the outermost working layer	0~128m/min

■ Slewing Mechanism

The slewing mechanism is driven by a two-motor reducer, and it can provide 360° rotation at the speed of 0~1.4r/min, with the function of free slipping.

The rotation bed is mounted on a triple-row roller bearing ring.

■ Main luffing mechanism

The polyline drum ensures the smooth multi-layer winding.

Main Luffing Mechanism

Drum diameter	600mm
Rope speed of the outermost working layer	2×(0~60)m/min
Wire rope diameter	26mm
Wire rope length of main luffing	550m
Rope speed of the outermost working layer	0~128m/min

■ Auxiliary luffing mechanism

The polyline drum ensures the smooth multi-layer winding.

Auxiliary Luffing Device

Drum diameter	592mm
Rope speed of the outermost working layer	0~85m/min
Wire rope diameter	26mm
Wire rope length of auxiliary luffing	710m
Rope speed of the outermost working layer	0~128m/min

■ Counterweight

Central counterweight of basic machine 4 in total, total weight: 40t (4×10t) Rear counterweight of basic machine 4 in total, total weight: 150t (12×10t, 1×20t, 2×5t)

Driver's Cab

The entire driver's cab is designed in an allenclosed steel frame structure following ergonomic design. Panoramic visibility is available. The indoor noise is low (below 85dB), and the control device, detection instrument and CCTV monitoring system, etc. are equipped.

The driver's cab can be tilted to 20° as required by operation and can be turned to the front of platform to facilitate transportation.

■ Alarm Display

The alarm indication includes: all information is indicated on the screen within the driver's cab, e.g. wind speed, water temperature, oil temperature, oil quantity, oil pressure, working time, engine speed, fault indication.



■ Traveling Drive

The traveling system has two gearshifts, providing a strong traction force, and it can realize 90% linear traveling with load, 70% steering traveling with load under the boom operating condition, and 50% linear traveling with load under the luffing jib and fixed jib operating condition; each traveling reducer is independently driven and may achieve the forward, back or in-situ steering direction smoothly.

■ Travel Brake

The travel brake is the normally engaged disk brake (i.e., it is in the braking state when the traveling handle is not controlled). Automatic adjustment can be realized. When driving the crawler crane, operate the traveling handle to release the brake and to realize traveling.

■ Track Shoes

The crawler units at the left and right have 142 crawler shoes totally, each of which is 1,200mm

wide. The tensity of crawler assembly can be adjusted via the hydraulic jack, and an ideal tensity can be achieved through the adjusting gasket.

■ Base

It is in a frame structure welded with high-strength steel plates; the hydraulic cylinder drive power pins, which are easy to assemble and disassemble, are used for connecting the crawler frame.

■ Travel Speed

The variable displacement motor can realize the two gearshifts of 0.47km/h and 0.26km/h, at each of which stepless speed change can be achieved to ensure stable operation and fast traveling of equipment.

В

The operation devices are welded with high-strength steel tubes and steel plates. The pulleys on boom are all made of nylon while those on lifting hooks are all made of nodular cast iron.

■ Boom

The boom is the spatial truss structure welded with steel tubes, with uniform section in the middle and variable sections at both ends. The top and root segments of boom are reinforced with steel plates, which is more favorable to transmit loads.

The basic arm of boom is 18m long (base 1×11.2m, transitional section 1×6m, and arm head 1×0.8m);

The boom is 84m long in full extension (base 1×11.2m, transitional section 1×6m, arm head 0.8m×1, insert 1×6m, insert 4×12mA, insert 1×12mB).

■ Main Luffing Mast

Integrally a door-shaped strut, it is welded with high-strength steel plates, extending 9m long, and the middle part has a beam for reinforcement. The structural strength is high with good rigidity.

Luffing Jib

The boom is also in the spatial truss steel tubewelded structure with uniform section in the middle and variable sections at both ends. The top and root segment of boom are reinforced with high-strength steel plates, which is more favorable to transmit loads.

The basic boom of luffing jib is 24m long (tip 1×9m, base 1×9m, middle transitional section 1×6m);

The fully extended luffing jib is 66m long (tip 9m×1, base 9m×1, middle transitional section 6m×1, insert 6m×1, insert 12m×3).

The combination of boom and luffing jib is:

boom (24m.7m~66.7m) + luffing jib (24m~66m)

The luffing of luffing jib depends on the front and rear masts of luffing jib. The two masts are in the spatial truss welded structure with small sections at both ends and big sections in the middle. The rear mast of luffing jib is 14m long, and the front mast of luffing jib 15.5m long.

■ Fixed Jib

The fixed jib device is in the spatial truss structure welded with low-alloy high-strength steel tubes, and the tip and base of boom are welded with steel plates, thus facilitating the transmission of loads. The included angle between fixed jib and boom is 12° and 30.5° respectively.

The combination of boom and luffing jib is:

Boom (37m~85m) + fixed jib 9m

The fix jib is 9m long, consisting of a base 1×4.5m, and a tip 1×4.5m.

The fixed mast is a box-type beam composed of high-strength steel plates, and the low-alloy highstrength steel tubes between the two beams are welded into a door-shaped structure.

Hook Block

Standard configuration:

15t hook block

100t hook block

200t hook block

320t hook block

The optional hook blocks are:

150t hook block

50t hook block

Note: The above operation devices are in all configurations, and the specific configuration should be subject to contract for goods.

Safety Devices

■ Load Moment Limiter

Standard configuration, optional manufacturer. Main components: display, host box, angle sensor, and force sensor.

As an independent safety operation system controlled by computer, the load moment limiter may automatically detect the weight hoisted by the crane, operating radius and angle of boom, and compare the rated loading capacity with the actual load, operating radius and angle of lifting boom; In normal operation, it may automatically judge the direction of dangerous action of the crane in an intelligent way, and may also record the information on overload as it is equipped with a black box.

■ Tri-color Load Alarming Light

It may basically give indication in correspondence to the load progress bar of the display for load moment limiter, reflecting the load safety situation of hoisting tools.

■ Over Roll-out Limit Device for Main and Auxiliary Hooks

When the hook is elevated to the upper height limit, an alarm will be given and meanwhile, the lifting action of the hook will be shut off.

Over-hoist Limit Device for Main and Auxiliary Hooks

When the steel rope is rolled out near the last three circles, an alarm will be given and meanwhile, the electric control system will automatically shut off the dropping action.

■ Switch for Assembling Mode/Operating Mode

Under the assembling mode, the over roll-out limit device, boom limit device and load moment limiter do not function to facilitate installation of crane.

While under the operating mode, all these safety limit devices are functioning.

■ Boom Limit Detection Device

Under different operating condition, the operation of crane boom or jib is controlled within the safe angle through mechanical limit detection and detection of boom angle signal of the load limiter.

■ Boom Back-stop Device

The high pressure of back-stop cylinder needs to be conquered when the boom tilts backward, and the hydraulic system automatically compensates the high pressure oil and strains the pull rod of boom when the boom sets out forward to prevent the vibration and back-tilting of boom in operation.

The rear mast of luffing jib has a pair of mechanical back-stop device, and the front mast of luffing jib has a pair of cylinders to prevent the mast from tilting backward and strain the luffing wire rope of luffing jib. When the jib and boom extension form an included angle of 8°, the mechanical back-stop device will prevent it from tipping backward.

The back-stop of fixed jib is a pair of mechanical back-stop devices, which perform the fixed jib back-stop function under different arm length combinations by changing the positions of jacks and plugs.

■ Winch Mechanism Brake

All winch brakes are spring-loaded normal-engaged disk brakes, which provide a big braking force and

B SCC3200 Grawler Grane Series Specifications

are safe, reliable, free of maintenance, and durable.

■ CCTV Monitoring System

With high-definition camera, the operator in the driver's cab may monitor the real-time state of luffing drum, hoisting winch drum and the rear of crane.

■ Fault Self-diagnosis System

The system may automatically generate fault and alarm information, check the electrification of inservice electric circuit, and help troubleshoot electric fault.

■ Pharos

It is mounted on the top of the boom for guiding from high above, thus allowing the boom to keep erecting during evening.

Anemometer

It is installed on the top of boom to have real-time monitoring over the wind velocity and send data to the driver's cab.

■ Gradienter

The bubble gradienter is used as the benchmark of verification, and electronic gradienter is used for real-time display in high accuracy to indicate the inclined angel of crane and the situation of safe operation ground of crane.

Boom Angle Indicator

Pendulum-type angle indicator is equipped on one side of the boom base.

■ Hook Clamp

Each kind of lifting hook is equipped with a clamp plate to prevent the wire rope from falling off.

■ Operation Alarm

Before performing any operation to the crane, press

the horn to give alarms, indicating that the crane will be operated and reminding others of safety.

■ Traveling or Slewing Indication

During traveling or slewing, the alarming light flashes and slewing buzzer tweets.

■ Function Permission Handle

If the function-permitting hand lever is not fixed in position, all other functional control levers will not work, so as to prevent misoperation due to knocks of body when getting on and off the crane.

■ Seat-leaving Protection

When the operator is not at seat, all manipulations will be out of function, so as to avoid some misoperations effectively.

■ Automatic Reversing Travel

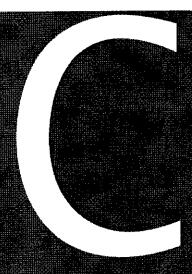
Whatever relative positions superworks and lowerworks are at, the truck will travel forward when the traveling pedal is pushed forward and it will travel backward when the pedal is pulled backward.

■ Engine Power Limit Load Adjustment and Stalling Protection

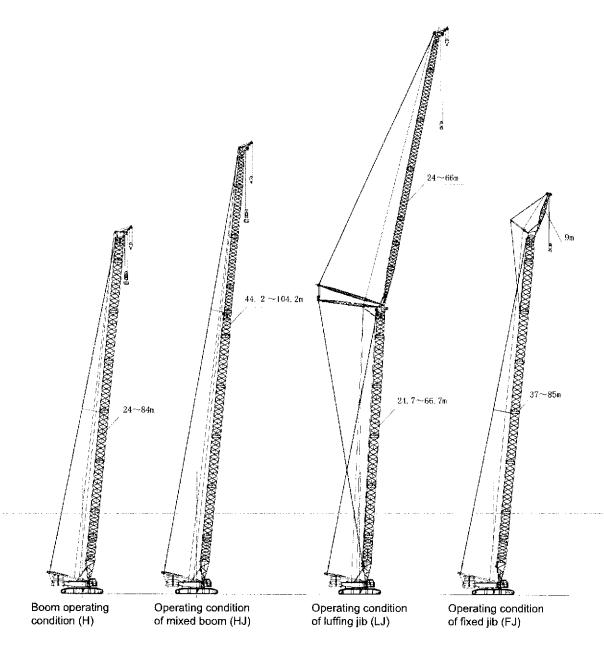
Have real-time monitoring over the output power of engine and prevent the engine from stalling through power load adjustment.

■ Monitoring Display

A high-precision and TFT display is used as the indication terminal for electric human-machine dialogues of the whole machine, to indicate the operating parameters of engine system and hydraulic system, parameter state of every detection point and output point of the electric system, and the real-time parameters of operating conditions under all circumstances.



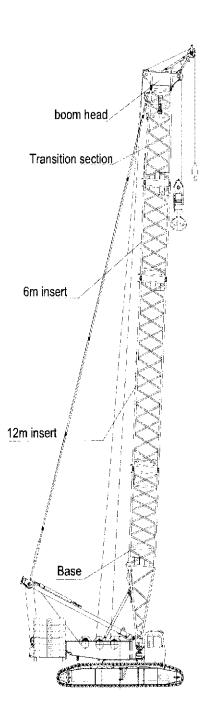
- 27 H Operating Condition of Boom
- 28 Operating Range Diagram of Boom
- 29 Load Charts of Boom
- 35 HJ Operating Condition of Mixed Boom/Mixed Boom Combination
- 36 Operating Range Diagram of Mixed Boom Operating Condition
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- 41 LJ Operating Condition of Luffing Jib
- 42 Operating Range Diagram of Luffing Jib
- 44 Load Charts of Luffing Jib
- 48 FJ Operating Condition of Fixed Jib
- 49 Operating Range Diagram of Fixed Jib Operating Condition
- 50 Load Charts of Fixed Jib



H Operating Condition of Boom

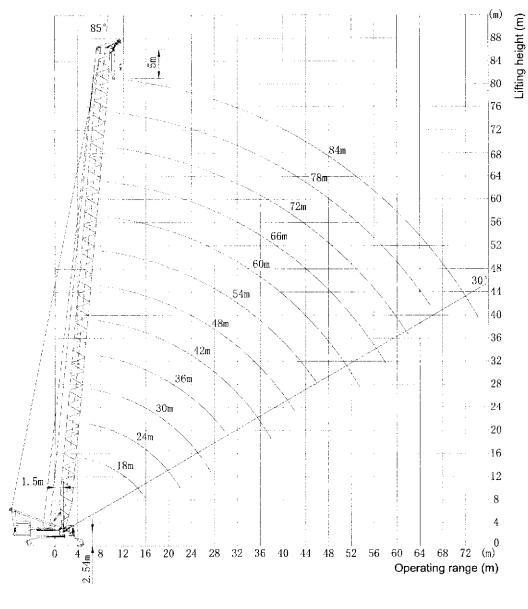
Boom combination

Boom length	Base		Insert		Transition section	boom head
(m)	11.2m	6m	12mA	12mB	6m	0.8m
18	1	-			1	1
24	1	1	_	_	1	["] 1
	1			1	1	1
30	1	2			1	1
36	1	1		1	1	1
40	1	_	1	1	1	1
42	1	2	_	1	1	1
48	1	1	1	1	1	1
	1	_	2	1	1	1
54	1	2	1	1	1	1
60	. 1	1	2	1	1	1
	1	_	3	1	1	1
66	1	2	2	1	1	1
72	1	1	3	1	1	1
7,	1	_	4	1	1	1
78	1	2	3	1	1	1
84	1	1	4	1	1	1



SCC3200 Crawler Crane Series **Operating Range Diagram of Boom**

Operating Range Diagram of Boom



Operating range diagram of boom (H) operating condition

Load Charts of Boom

Los	d Ch	nart o	f Boo	om O	pera	ting (Cond	ition	. ;				
Rear	counte n (m)	rweigh	t + cent	ral cou	nterwei	ght: 15	0t+40t						
Radius	18	24	30	36	42	48	54	60	66	72	78	84	Radius
m	t	t	t	t	" t	t	t	t	t	t	t	<u>t</u> !	m
5	320.0	-	-		-	-	-	-	-	- j	-	-	5
5.5	305.0	295.0	-	- "	-	-	-			-			5.5
6	295.0	290.0	286.0	_	-	-	-	-		-			. 6
7	290.0	285.0	278.0*	275.0*	246.0*	-	-	<u>-</u>					
	274.0	260.0	258.0*	254.0*	239.0*	216.0*	172.0*	_	-	.	- :	-	. 8
8 9	230.0	224.0	221.0*	221,0*	210.0*	196.0*	168.0*	143.0	116.0	_	-		9
10	192.0	191.0	190.0*		186.0*	176.0*	165.0*	140.0	114.0	98.0	83.0		. 10
12	144.0	143.0	140.0*	138.0*	136.0*	134.0*	133.0*	131.0	110.0	97.0	82.0	70,0	12
14	115.0	114.0	112.0*	110.0*	110.0*	107.0*	105.0*	104.0	102.0	95.0	79.0	69.0	14
16	95.0	94.0	92.0*	90.5*	90.5*	90.0*	89.0*	0.88	87.0	85.0	75.0	66,0	16
18	_	80.0	79.0*	78.0*	77.0*	76.0*	76.0*	75.0	74.0	73.0	72.0	63.0	18
20		70.0	68.0*	67.0*	66.0*	65.0*	64.5*	64.0	63.0	62.0	62.0	61.0	20
22	:	61.5	61.0*	60.0*	59.0*	58.0*	57.5*	58.0	56.0	55.0	54.0	53.0	22
24	-	-	58.0*	57.0*	56.0*	55.0*	55.0*	54.0	53.0	52.0	51.5	50.0	24
26		-	55.0*	53.5*	52.5*	52.0*	51.5*	52.0	51.0	50.3	49.1	47.8	26
28		i	50.0*	48.6*	47.7*	47.2*	46.7*	46.5	46.2	45.4	44.2	43.0	28
30			-	44.5*	43.5*	42.8*	42.5*	41.0	41.8	41.1	40.0	38.8	30
34	<u> </u>	-		-	36.5*	36.0*	35.6*	35.0	34.8	34.2	33.2	32.0	34
38			-	-	31.5*	30.5*	30.0*	30.0	29.6	28.8	27.8	26.7	_38
42	: <u>-</u>		-	-] -	26.5*	26.0*	26.0	25.5	24.5	23.5	22.5	42
46		_	.1	· -	-	· -	23.0*	22.5	22.0	21.0	20.0	19.0	_46
50	! - <u>-</u>	_		· · · - · ·	_		-	20.0	19.1	18.1	17.1	16.1	50
54	· _	· · · · ·	 -	- · ·	-	-	-	17.6	16.6	15.6	14.6	13.6	54
5 <u>7</u>	<u>-</u>	_	-	T	-	-			14.5	13.5	12.5	11.5	58
	i _	··· ·		_		· -	-	-		11.6	10.7	9.7	62
62 66		<u></u>		-	-	-	·		~	ļ	9.1	8.1	66
70	-	i -	!	-	1 -		-	i -	-		ļ	6.7	70
74	-	! -		-	 _	·	-	-	-			5.4	74
75 75		·	. •	-			Ţ - ⁻	-	-		-	5.1	75
lultiplying factor	28	26	25	24	21	18	14	11	9	8	6	5	Multiply facto

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table;

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ The loads with * can have the rear counterweight reduced 20t.

⁴⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the arm is >50m long, the permissible wind speed is ≤9.8m/s.

 $^{^{\}circ}$ 5) When the boom length is >66m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.



Load Charts of Boom

Load Chart of Auxiliary Hook under Boom Operating Condition

(Rear Counterweight +Central Counterweight: 150+40t) (200t main hook and 50t auxiliary hook are assembled)

Radius	. 18	24	30	36	42	48	54	60	66	72	78	84	Radius
m	į t	t	t	t	t	t	t	t	t	t	ŧ	t	m
6	35.0	-	-	-	-		-	-	-	-	-	-	6
7	35,0	35.0	35.0	_	-	-	-	-	-	-	-	-	7
8	35.0	35.0	35.0	35.0	35.0	-	-	-	-	-	- ,	· -	8
9	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	-	-	-	9
10	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	-	10
12	35.0	35,0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	_	12
14	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	14
16	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	16
18	_	35.0	35.0	35.0	35.0	35:0	35.0	35.0	35.0	35.0	35.0	35.0	18
20	-	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	20
22	-	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.D	35.0	35.0	22
24		-	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	24
26	-	-	35.0	35.0	35.0	35,0	35.0	35.0	35.0	35.0	35.0	35.0	26
28	_	-	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	28
30	<u>-</u>	-	-	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	33.9	30
34		-	- "	-	31.8	31.2	30.7	30.2	29.9	29.3	28.3	27.1	34
38	-	_	-	-	26.7	25.9	25.4	24.9	24.7	23.9	22.9	21.8	38
42	' -	-	-	-	-	21.9	21.4	20.7	20.6	19.6	18.4	17.6	42
46		-	-	. - "			18.2	17.4	17.1	16.1	15.1	14.1	46
50	_	-	-		-	_	-	14.7	14.2	13.2	12.2	11.1	50
54	-	-	-	-		-	-	12.6	11.7	10.7	9.6	8.8	54
58		-		-	-	-	- '	-	9.6	8.6	7.6	6.6	58
62	-	-	-	<u>-</u>	-		-			4.7	5.8	4.8	62
66		-		-		_	-	-	•	-	4.2	_	66
Multiplying factor	3	3	3	3	3	3	3	3	3	3	3	3	Multiplying factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table;

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ When the boom length is >66m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

Load Charts of Boom

Load Chart of Auxiliary Hook under Boom Operating Condition

(Rear Counterweight +Central Counterweight: 150+40t) (200t main hook and 15t auxiliary hook are assembled) Boom (m)

Radius	18	24	30	36	42	48	54	60	66	72	78	84	Radius
m	t		t	t	. t	t	t	t ¹	t	t	t	t	m
6	13,5		-	_	_	-	-	_	-				6
7	13.5	13.5	13.5	-	· · · · · · · · · · · · · · · · · · ·	-	-	-		-			7
8	13.5	13.5	13.5	13.5	13.5	-	- 1	-	1			-	8
	13.5	13.5	13.5	13.5	13.5	13.5	13,5	_	_		-	i	8 10 12
9 10	13.5	13.5	13.5	13.5	13.5	13,5	13.5	13.5	13.5		_]	10
12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	-	
14	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13,5	13.5	14
16	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	16
18		13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18
20	· -	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13,5	13.5	13.5	20
22	-	13.5	13.5	13.5	13,5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	22
24	i -		13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	24
	-	-	13.5	13.5	13,5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	<u>26</u>
26 28	-4. -	·	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	28
30		-	-	13.5	13.5	13.5	13.5	13.5	13.5	13,5	13.5	13.5	= 3 <u>0</u> 34
and the second s			ļ. .	_	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	
= 3 <u>4</u> -	-	÷ -		i -	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	38
42	-		-	-	-	13.5	13.5	13,5	13.5	13.5	13.5	13.5	42
46		· -	-	-	-	-	13.5	13.5	13.5	13.5	13.5	13.5	46
50				<u>-</u>	-	-	-	13.5	13.5	13.2	12.2	11.1	50
54	ļ · · · - · ·		-		-	-	-	12.6	11.7	10.7	9.6	8.8	54
58	i -		-	-	-	i -	-	i	9.6	8.6	7.6	6.6	58
62	··· -	_	_	-	-	_	· - <u>-</u>	· -	! <u>-</u> -	4.7	5.8	4.8	62
66	-	-	-		- '		·	-		-	4.2		66
Multiplying factor	1	1	: 1	1	1	1	1	1	1	1	1	1 1	Multiplying factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table;

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ When the boom length is >66m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

SCC3200 Crawler Crane Series Load Charts of Boom

Load Charts of Boom

Load Chart of Bo	om Operating Condition
Rear counterweight + cen	tral counterweight: 130t+20t
Poom (m)	

Radius	18	24	30	36	42	48	54	60	66	72	Radius
m	t	t	t	t	t	t	t	t	t	t	. m
5	300.0	-	_	_		_	-	-	: -	-	5
5.5	290.0	289.0	-		-	-	-	<u> </u>	-	-	5.5
6	278.0	277.0	276.0	-	-	-	-	<u> </u>	-	-	6
7	260.0	259.0	258.0	254.0	236.0	-		-	-		7
8	236.0	218.0	217.0	216.0	203.0	190.0	171.5	-		_	8
9	191.0	187.0	186.0	182.0	176.0	167.0	159.0	143,5	116.0	<u>-</u>	9
10 12	160.0	159.0	158.0	156.0	152.0	149.0	141.0	135.0	115.0	98.0	10
12	120.0	119.0	118.0	117.0	117.0	116.0	116.0	111.0	107.0	97.0	12
14	96.0	95.0	94.0	93.0	93.0	92.5	92.0	92.0	91.5	88.0	14
16	79.0	78.0°	77.0	76.5	76.0	76.0	75.5	75.0	75.0	74.0	16
18	68.0*	67.0°	65.0	65.0	64.0	64.0	63.5	63.0	62.5	62.0	18
20	-	58.0	56.0	55.0	54.0	53.0	53.0	52.0	51.0	50.0	20
22	- [51.0°	48.0	47.0	46.0	45.5	45.0	44.0	43.0	42.5	22
24	-	-	47.0	46.0	45.0	45.0	44.0	43.0	42.0	42.0	24
26		-	46.0	45.0	43.5	43.0	42.8	42.5	42.0	41.4	26
28	-	-	42.0	41.0	39.5	39.0	38.6	38.2	38.0	37.2	28
30		-	_	37.0	36.0	35.0	34.8	34.5	34.2	33.6	30
34	•		-	_	30.0	29.5	29.0	28.6	28.3	27.7	34
38	-	-	-		26.0	25.0	24.5	24.1	23.8	23.1	38
42	<u> </u>	-	•	-	-	21.5	21.0	20.5	20.3	19.4	42
46	-	-	-		-	· · ·	18.2	17.5	17.2	16.4	46
50	- [-	-	- '	_	-	·· -	15.0	14.8	13.9	50
54	- [- !	-	-	-			13.2	12.6	11.8	54
58	-	-	-	-	-		_	_ !	10.8	9.9	58
62	-	-	-	-	-	-	-	-	-	8.3	62
Multiplying factor	26	25	24	21	20	17	14	11	9	8	Multiplying factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ The loads with * can have the rear counterweight reduced 20t.

⁴⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is \geq 50m long, the permissible wind speed is \leq 9.8m/s.

⁵⁾ When the boom length is >66m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

Boom (ı	n)							
Radius	30	36	42	48	54	60	66	Radius
m	t	t	t	t	t	t	t	m
6	236:0	-		-	-	: -		6
6.5	230.0	229.0	j	-			-	6.5
7	224.0	210.0	195.0	-			-	7
8	190.0	177.0	166.0	156.0	147.0	-	_	8
9	164.0	154.0	145,0	137.0	130.0	123.0	116.0	9
10	144.0	136.0	129.0	122.0	116.0	110.0	105.0	10
11	127.0	121.0	115.0	110.0	104.0	100.0	95.5	11
12	111.0	109.0	104.0	99.5	95.0	91.0	87.5	12
14	87.5	87.0	86.0	83.5	80.5	77.0	74.0	14
16	72.0	71.5	70.5	70.0	69.0	66.0	64.0	16
18	61.0	60.0	59.5	59.5	58.5	58.0	56.0	18
20	52.5	51.5	51.0	50.5	50.0	49.8	49.6	20
22	46.5	45.5	44.5	44.0	43.7	43.2	43.2	22
24	41.5	40.5	39.5	38.5	38.3	38.0	37.7	24
26	37.0	36.0	35.0	34.2	34.0	33.6	33.5	26
28	33.5	32.5	31.5	30.8	30.3	30.0	29.8	28
30		29.5	28.5	27.8	27.3	26.8	26.8	30
34			23.5	23.0	22.5	22.0	21.8	34
38	-	- · · ·	20.0	19.2	18.8	18.3	18.1	38
42	-	-	-	16.5	15.9	15.1	14.9	42
46	-	-	-	-	13.5	12.8	12.4	46
50		-	-	T -	-	10.8	10.4	50
 54	-	_	-	-	<u>-</u>	9.1	8.6	54

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ When the boom length is 66m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

SCC3200 Crawler Crane Series Load Charts of Boom

Load Charts of Boom

	Chart ounterweighm)		. •	_		tion			
Radius	18	24	30	36	42	48	54	60	Radius
m	t	t	t	t	t	t	ť	t	m
5	259.0	-	· : -	-	-	-	-	-	5
5.5	249.0	246.0	-	-	-	-	-	-	5.5
6	241.0	239.0	237.0	-	-	-		-	6
6.5	232.0	230.0	212.0	195.0	-	-	-	_	6.5
7	225.0	209.0	192.0	178.0	164.5	-		- ;	7
8	188.0	174.0	161.0	150.0	141.5	132.5	124.5	-	8
9	153.0	148.0	139.0	130.0	123.0	116.5	109.5	103.5	9
10	127.0	127.0	122.0	115.0	109.0	103.0	98.0	93.0	10
11	109.0	108.0	107.0	102.0	97.5	92.5	88.0	84.0	11
12	95.0	94.5	93.5	92.5	88.0	84.0	80.0	76.0	12
14	76.0	75.0	74.0	73.0	72.5	70.0	67.0	64.0	14
16	63.0	62.0	61.0	60.0	59.0	58.5	57.5	55.0	16
18	54.0	52.0	51.0	50.0	49.6	49.1	48.7	48.0	18
20	-	46.0	44.0	43.5	42.3	41.8	41.6	41.2	20
22	-	40.0	39.0	38.0	36.7	36.2	35.8	35.5	22
24	_	-	34.5	33.5	32.2	31.6	31.3	31.0	24
26	_	-	31.0	30.0	28.6	28.1	27.6	27.3	26
28		-	28.0	26.5	25.6	25.0	24.6	24.1	28
30	_	-	-	24.0	23.0	22.3	22.0	21.5	30
34	· -	-	-	-	18.9	18.3	17.8	17.3	34
38	_	-	-	-	15.8	15.1	14.5	13.9	38
42	-	-	-	-	-	12.5	12.0	11.3	42
46		-	-	-	-	_	9.8	9.0	46
50	: -			-	-	-	-	7.4	50
54	-	-	-	-	-			6.1	54
Multiplying factor	22	21	20	17	13	10	10	8	Multiplying factor

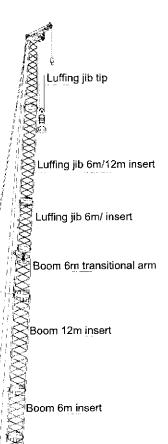
¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does

³⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is \geq 50m long, the permissible wind speed is ≤9.8m/s.

HJ Operating Condition of Mixed Boom Mixed Boom Combination

Arm length	Boom base		Boom ins	ert	Reducing arm		Jib inse	rt	Jib tip
(m)	11.2m	6m	12mA	12mB	6m	6m	6mB	12m	9m
44.2	1		· —	1	1	1	-		1
50.2	1			1	1	1	. 1	_	1
56.2	1 1	! <u> </u>	_	1	1 .	1		1	. 1
62.2	1	1	_	1	1	1		1	1
00.5	: 1		1	1	- 1	1		1	1
68.2	1	. 2	_	1	1	1	<u> </u>	1	1
74.2	1	1	1	1	1	: 1	<u> </u>	1	1
80.2	1	1	1	1	1 .	1	1	1	1
00.0	1	†	2	1	1	1	1	1	1
86.2	1	, 2	1	1	1	1	1	_ 1	1
00.0	1	_	2	1	1	1		2	1
92.2	1	. 2	1	1	1	1		2	1
98.2	1	1	2	1	1	1	_	2	1
454.5	1	· ·	3	1	1	1		2	1
104.2	1	2	2	1	1	, 1		2	1

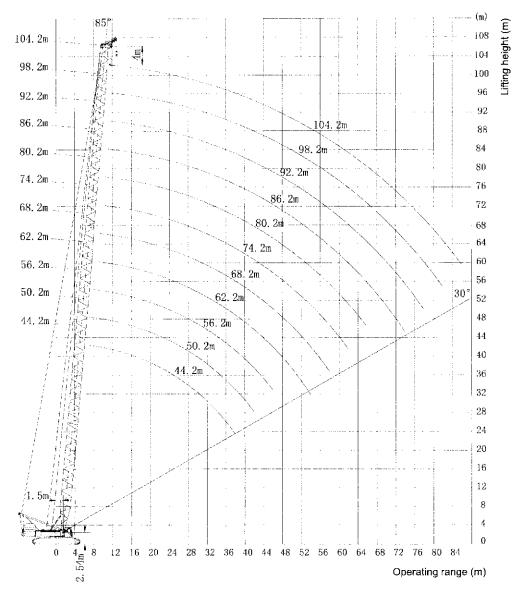


Boom 12m insert

Boom base

© SCC3200 Crawler Crane Series
Operating Range Diagram of Mixed Boom Operating Condition

Operating Range Diagram of Mixed Boom Operating Condition



Operating range diagram of mixed boom (HJ) operating condition

Load Charts of Mixed Boom

	ad Ch							ondi	tion	1.25.		
	counter	weight-	· centra	l counte	rweight	: 150t+4	10t		. Ha 1		uika: "	
Boor Radius	44.2	50.2	56.2	62.2	68.2	74.2	80.2	86.2	92.2	98.2	104.2	Radius
m	† ' t	t	t	t	<u>t</u>	t	t	t	t	t	t	_ m
7	130.0	130.0	-		-	-	-	- 1	-	- i	i	7
•	130.0	130.0	128.0	-	··· -	· -	-	_		<u> </u>		8
<u>8</u> 9	130.0	130,0	125.0	105.0	92.5	-	-	-		. <u>-</u>	- 1	9
10	130.0	125.0	123.0	103.0	92.5	84.5	67.0	-	-	-	-	10
11	129.0	119.0	117.0	101.0	91.0	82.0	66.0	54.0	43.2			11
12	127.0	114.0	111.0	99,0	89.5	79.5	65.5	53.0	43.2	34.7	32.1	12
13	122.0	107.0	105.0	96.5	88.0	77.0	63.5	51.5	42.2	34.3	31.6	13
14	116.0	101.0	100.0	94.5	86.5	74.5	62.0	50.5	41.2	33.8	31.4	14
16	95.0	98.0	89.5	89.0	83.5	69.0	58.5	48.7	39.3	32.1	30.2	16
18	90.0	89.5	79.5	79.5	78.0	65.0	55.0	47.1	37.7	30.5	30.0	18
20	78.0	77.5	73.0	73.0	72.0	61.0	52.5	45.5	36.3	29.1	27.8	20
22	68.5	68.5	66.5	66.0	65.0	57.5	50.0	44.2	35.2	27.6	26.7	22
24	61.0	61.0	60.0	60.0	59.5	54.0	47.7	43.1	34.2	26.5	25.7	24
26	55.0	55.0	54.0	54.0	53.5	50.5	45.5	42.2	33.3	25.5	24.6	26
28	50.0	50.0	49.2	48.8	48.3	47.7	43.2	40.7	32.7	24.5	23.7	28
30	45.8	45.7	44.8	44.6	44.1	43.2	41.0	39.3	31.8	23.8	22.8	30
34	39.1	38.7	38.0	37.6	37.1	36.3	36.2	36.1	30.0	22.6	21.4	34
38	33.8	33.6	31.6	31.4	31.2	31.1	31.0	30.8	28.1	21.3	20.5	38
42	-	29.5	27.0	27.0	26.9	26.8	26.7	26.6	26.4	20.3	19.8	42
46			24.0	24.0	23.8	23.5	23.4	23.3	23.0	19.1	19.0	46
50	· -	_i	- · · · · ·	22.1	21.5	20.6	20.5	20.4	20.2	17.8	17.2	50
54	· -		: -	19.8	19.1	18.3	18.2	18.1	17.8	16.6	15.7	54
5 	- -	. -	<u> </u>	-	17.1	16.1	16.0	15.9	15.8	14.5	13.6	58
62		<u>-</u>	-	i	_	14.0	13.8	13.7	13.6	12.7	11.8	62
66	_	1 -	- '	·			12.5	12.3	12.0	11,1	10.2	66
70	- : - ·	† - ···	-			:	T -	10.9	10.6	9.7	8.8	70
74	i _		· · ·			- "		9.7	9.4	8.4	7.6	74
78	_		_	'	-		••	-	8.3	7.3	6.4	78
82	· · · ·			-			-	i -	-	6.3	5.4	82
86	· _	· ·	_		_	- '	-		_	- "	3.5	86
Multiplying factor	10	10	10	8	7	7	5	4	4	3	3	Multiplyi factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is \geq 50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ When the boom length is >92.2m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

SCC3200 Crawler Crane Series **Load Charts of Mixed Boom**

Load Charts of Mixed Boom

Boom	ounterwei	grit CCI	mai codi	iter weigi	10. 1000-2			4	٠.	
Radius	44.2	50.2	56.2	62.2	68.2	74.2	80.2	86.2	92.2	Radius
m	t	t	t	t	t	t	t	t	t	m
7	130.0	130.0	-	-	-	-	-	-	-	7
8	130.0	130.0	128.0	-	-		-	-		8
9	130.0	130.0	125.0	105.0	92.5		-	- i -	-	9
10	130.0	125.0	123.0	103.0	92.5	84.5	67.0	-	_	10
11	129.0	119.0	117.0	101.0	91.0	82.0	66.0	54.0	43.2	11
12	129.0	114.0	111.0	99.0	89.5	79.5	65.5	53.0	43.2	12
13	118.0	107.0	105.0	96.5	88.0	77.0	63.5	51.5	42.2	13
14	108.0	105.0	100.0	94.5	86.5	74.5	62.0	50.5	41.2	14
16	89.5	89.5	87.5	84.5	81.5	69.0	58.5	48.7	39.3	16
18	76.0	76.0	75.0	74.5	72.0	65.0	55.0	47.1	37.7	18
20	65.5	65.5	65.0	64.5	64.0	61.0	52.5	45.5	36.3	20
22	58.0	57.5	57.0	56.5	56.0	55.5	50.0	44.2	35.2	22
24	51.5	51.0	50.5	50.0	49.8	49.2	47.7	43.1	34.2	24
26	46.3	46.2	45.3	45.1	44.6	43.8	43.2	42.2	33.3	26
28	42.1	41.7	41.0	40.7	40.2	39.5	39.4	39.3	32.7	28
30	38.3	38.1	37.3	37.0	36.5	35.7	35.6	35.5	31.8	30
34	32.5	32.2	31.3	31.1	30.6	29,8	29.7	29.6	29.6	34
38	28.1	27.8	27.0	26.5	26.0	25.3	25.2	25.1	25.0	38
42	-	24.3	23.3	23.0	22.3	21.6	21.5	21.4	21.3	42
46	_	· <u>-</u>	20.6	20.1	19.6	18.8	18.7	18.6	18.5	46
50	-	-	-	17.8	17.1	16.3	16.2	16.1	15.9	50
54	-	- ;	-	15.9	15.1	14.4	14.2	14.0	13.8	54
58			-		13.5	12.5	12.4	12.3	11.9	58
62	-	-	-	-		11.0	10.8	10.6	10.4	62
66	! -	i		_ !	- :	-	9.9	9.3	8.9	66
70	_		-	- :	_	-	- .	8.0	7 .7	70
74	-	-	- :	-	-	-	-	6.9	6.6	74
78		-	-	-	-	- i	-		5.7	78
/ultiplying factor	10	10	10	8	7	7	- 5	4	4	Multiplying factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is \geq 50m long, the permissible wind

⁴⁾ When the boom length is >86.2m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

Load Charts of Mixed Boom

Rear	counterweig	of Mixed tht + central	counterwei	ght: 110t+0t	Language Par	Programme (Fig. 1977)		1
Boom				Y #				
Radius	44.2	50.2	56.2	62.2	68.2	74.2	80.2	Radius
m	t	t	t	t	t	t	t	m
7	130.0	130.0	-	-			-	7
8	130.0	130.0	128.0	-	-	-		8
9	130.0	129.0	124.0	105.0	92.5	-	-	9
10	125.0	124.0	118.0	103.0	92.5	84.5	67.0	10
11	118.0	113.0	107.0	98.0	91.0	82.0	66.0	11
12	106.0	102.0	97.5	93.5	89.5	79.5	65.5	12
13	97.5	94.0	90.0	86.5	83.0	76.0	63.5	13
14	89.0	86.0	82.5	79.5	76.5	73.0	62.0	14
16	73.5	73.0	71.5	69.0	66.0	63.5	58.5	16
18	62.0	62.0	61.0	60.5	58.0	56.0	54.5	18
20	53.5	53.5	52.5	52.5	51.5	49.8	48.7	20
22	47.1	46.8	46.2	45.8	45.3	44.7	43.7	22
24	37.5	37.2	37.0	36.8	36.7	36.5	36.2	24
24 26	33.8	33.6	33.4	33.2	33.1	33.0	32.6	26
28	30.8	30.6	30.4	30.2	30.0	29.8	29.6	28_
30	26.0	25.8	25.5	25.2	25.0	24.8	24.6	30
34	22.3	22.1	21.8	21.6	21.4	21.2	21.0	34
. 34		22.0	21,1	20.8	20.1	19.5	19.4	38
42	<u> </u>	19.1	18.3	17.8	17.3	16.5	16.4	42
46	1 2		15.9	15.4	14.9	14.0	13.9	46
50			-	13.5	12.8	11.9	11.8	50
50 54			i	11.9	11.0	10.1	10.0	54
5 4 58	<u> </u>	:	 -	.4	9.6	8.6	8.5	58
50 62	<u> </u>				-	7.5	7.3	62
66	.i			.i	-	· · · ·	6.5	66
tultiplying factor	-	10	10	8	7	7	5	Multiplyir factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does

not travel. 3) When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is >50m long, the permissible wind

⁴⁾ When the boom length is >86.2m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

SGC3200 Crawler Crane Series Load Charts of Mixed Boom

Load Charts of Mixed Boom

Load Chart of Mixed Bo	om Operating Condition
Poor countonicable control counter	-

Rear counterweight+central counterweight: 90t+0t

DOULL	. 34.9						
Radius	44.2	50.2	56.2	62.2	68.2	74.2	Radius
m	t	t	t	t	t	t	m
7	130.0	130.0	-	-	-	<u>-</u>	7
8	130.0	124.0	120.0	-	-	-	8
9	125.0	118.0	112.0	105.0	92.5	-	9
10	110.0	105.0	100.0	95.0	90.5	84.5	10
11	100.0	95.5	91.0	86.5	82,5	78.0	11
12	90.0	86.5	82.5	78.5	75.0	72.0	12
13	82.5	79.5	76.0	72.5	69.5	66.5	13
14	75.0	72.5	69.5	66.5	64.0	61.0	14
16	61.5	61.5	60.0	57.5	55.0	53.0	16
18	52.0	52.0	51.0	50.5	48.6	46.5	18
20	45.0	44.7	44.1	43.7	43.0	41.2	20
22	39.3	39.1	38.3	38.1	37.7	36.7	22
_24	34.7	34.6	33.8	33.6	33.1	32.3	24
26	31.1	30.8	30.1	29.8	29.3	28.6	26
28	28.0	27.8	27.0	26.6	26.1	25.5	28
30	25.3	25.1	24.3	24.1	23.6	22.8	30
34	21.3	21.0	20.1	19,8	19.3	18.6	34
38	18.1	17.8	17.0	16.6	16.1	15.3	38
42	-	15.4	14.5	14.0	13.5	12.5	42
46	-	_	12.5	12.0	11.3	10.5	46
50		:		10.3	9.5	8.6	50
54	-	-	-	8.9	8.0	7.2	54
58	-	-	-		6.9	6.0	58
62	- -	-	 	-	-	4.9	62
lutiplying factor	10	10	9	8	7 -	7	Mutiplying factor

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does

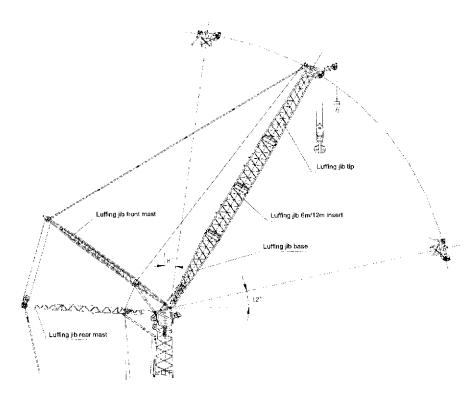
³⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the arm is >50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ When the boom length is >68.2m, a wedged pad should be added in front of the crawler during the raising and lowering of boom.

LJ Operating Condition of Luffing Jib Boom + Luffing Jib Combination

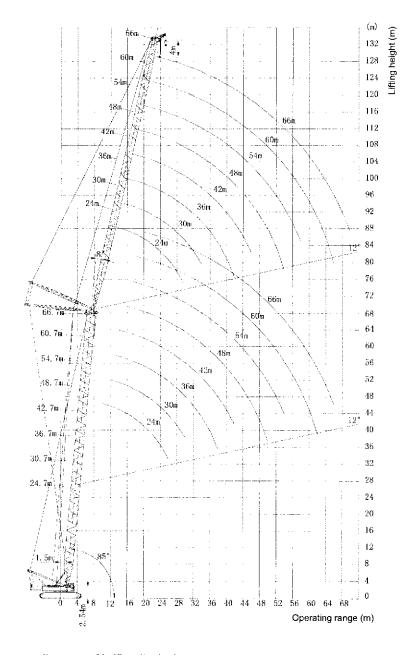
Length of luffing	Jib base		Jib insert							
jib (m)	9m	6mA	6mB	12m	9m					
24	1	1	_		1					
30	1	1	1		1					
36	1	1		_ 1	1					
36	1	1	2		1					
42	1	1	1	1	1					
48	1	1		2	1					
#0	1	1	2	1	1					
54	1	111	1	2	1					
60	1	, 1	<u> </u>	3	1					
00	1	1	2	2	1					
66	1	1	1	3	1					

Length	Base		Insert			Connecting section
of boom (m)	11.2m	6m	12mA	12mB	6m	1.5m
24.7	1	1			1	1
00.7	1		— ·	1	1	1
30.7	1	2		l —	1	1
36.7	1	1		1	1	1
42.7	. 1	2	1	1	1	1
48.7	1	1	1	1	1	1
- A -	1		2	1	1	1
54.7	1	2	1	1	1	-1
60.7	1	1	2	1	1	1
66.7	1	_ 2	3	1	1	1 1



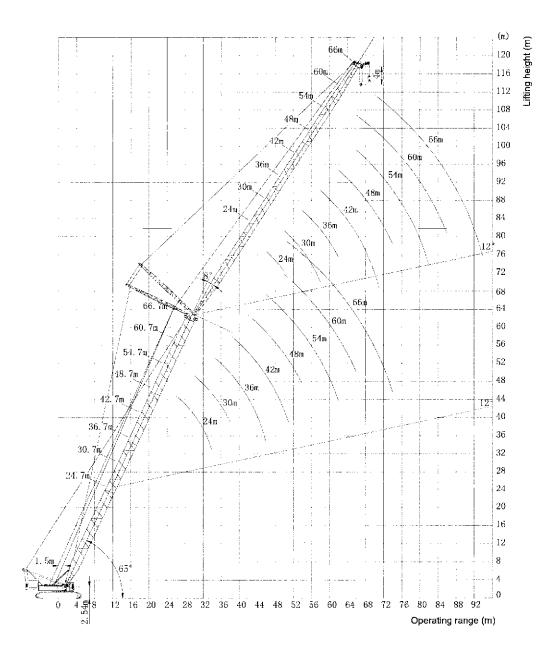


Operating Range Diagram of Luffing Jib



Operating range diagram of luffing jib (LJ) operating condition (boom's elevation angle 85°)

Operating Range Diagram of Luffing Jib



Operating range diagram of luffing jib (LJ) operating condition (boom's elevation angle 65°)

Load Charts of Luffing Jib

Load Chart of Luffing Jib Operating Condition

Rear counterweight+central counterweight: 150t+40t Boom: 24.7m

Januarie Herrigania		24m		[10] NOV. 1.1. 1.1. [10]	30m	<i>:::::::::::</i>	V 1 100 (2000)	36m		854 s.N. 574 U.S.	42m		Radius
Radius	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	Radius
m	t	t	t	t	t	t	t	t	t	t	t	t .	m _.
10	140.0	-	-						-	-	<u>-</u>	·	10
12	139.0		-	137.0	-	-	-		-	-	-	. *	12
13	134.0			131.0		-	107.0*	<u>.</u>		-		-	13
14	128.0	-	-	125.0	-	l	106.0	-	-	86.0	-	-	14
16	110.0	-	-	108.0	-	-	105.0	<u>-</u>	-	85.0		<u> </u>	16
18	94.0	-	-	94.0	-		92.5		-	84.0	-	- .	18
20	82.0	80.0	-	82.0	-	-	81.5	-	-	81.0	-		20
22	72.5	70.0	-	72.5		<u>-</u>	72.0	-	-	72.0	. •	. -	22
24	64.5	62.0	-	64.5	62.0	· -	64.0	·		64.0			24
26	59.0	56.0		58.5	56.0	· -	58.0	56.0	-	58.0	-		26
28	-	51.0	49.2	53.0	51.0		52.5	51.0	-	52.5	51.0		28
30	-	47.0	45.2	49.0	46.8	· -	48.5	46.3		48.3	46.5	i -	30
34	-	-	38.5		40.5	38.1	41.5	39.6	37.5	41.2	39.3	<u>i - </u>	34
38	- '	-	-		: -	33.2	36.5	34.3	32.7	35.8	34.2	32.5	38
42	-	-	-	- '	. •	-	i -	30.5	28.8	32.0	30.5	28.6	42
46		-	i _	<u>-</u>	· -		Ţ -		25.5	•	27.0	25.5	46
50		-	-	-	, -	-	· -		-		-	22.8	50
53	-	-		-	-	-	i	<u> </u>	·	-		21.0	53
Multiplying	:				11			8			7		Multiplying
factor		11			11		i	8			,		factor
		48m			54m			60m		-	66m		Radius
Radius	85°	75°	65°	85°	75°	65°	85°	75°	65°	. 85°	75°	65°	Radius
m	t	t	t	t	t	t	t	t	t	t	t	t	m
16	69.5	-	- "	-	-	· -	-	-	-	- · · -	-	-	. 16
17	69.5		-	56.0	-		-	-		-	-	-	17
18	69.0	-	-	55.0	_		45.5	= -	-	-	_	-	18
20	69.0	-	-	54.5	· -		45.0	· -	-	36.0	-	-	20
21	68.0	··· -	-	54.0	· -	_	44.5	-	-	35.8		-	21
22	67.5	_	-	54.0		-	44.5			35.7	-	-	22
24	63.5	_	-	53.0	· -		43.8	-	-	35.3		-	24
26	57.5	-	-	52.5	-	-	43.2		-	34.7	Ì -		26
28	52.0	_	-	51.5		-	42.2	-	-	34.1	-		28
30	48.0	46.0	-	47.7	-	-	41.1			33.2	-	<u>-</u>	30
34	40.7	39.0	-	40.5	39.0	· -	38.7	-	· -	31.3	l	-	34
38	35.3	33.7	· -	35.1	33.3	-	34.7	32.6	-	30.0	31.5		38
42	31.1	29.6	28.0	30.8	29.1	· -	30.3	28.5	-	28.5	28.2	i	42
46	28.0	26.3	24.8	27.3	25.8	24.2	26.8	25.3	-	26.6	25,1		46
50	24.0	23.5	22.3	25.0	23.1	21.8	24.0	22.6	21.0	23.6	22.3	_	50
54	† -	21.0	20.0	22.5	20.8	21.8 19.6	21.6	20.3	19.1	21.3	20.1	18.6	54
58	_	-	18.0	-	18.5	17.5	19.6	18.3	17.3	19.3	18.1	17.0	58
62		-	-	-	-	16.2	16.0	16.5	15.6	17.2	16.3	15.4	62
66		_	_				-	15.2	14.2	14.2	14.2	14.0	66
70	- "	-	-	· · · -	-	-	-	-	12.8	-	13.5	12.5	70
74	-	-	-		· · - · ·	1 -	-	_	-	-		11.2	74
Multiplying		-				1		4	•				Multiplying
factor		5			4			4			3		factor
. Idoloi													

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

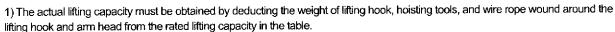
²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel

³⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is \geq 50m long, the permissible wind speed is \leq 9.8m/s.

⁴⁾ The elevation angle of the boom at the place of * is 87°.

Load Charts of Luffing Jib

	ad Ch								on				
	ir countei ing jib	rweight	+central	counter	weight:	150t+40	t Boom:	48.7m				na ar Saist	
Radius	85°	24 75°	65°	85°	30 75°	65°	85°	36 75°	65°	85°	42 75°	65°	Radius
m	00 1	t	1 t	t :	t	t	t	t	t	1	ŧ	" t	m
12	85.0			-		_	-			-	-	-	12
13	85.0	-	i - :	71,0	-	-	-	-		-	-		13
14	85,0	-	· -	71.0	-	-	59.0	-	;		-	i -	14
16	85.0		-	71.0	-	-	59.0		,	50.0	-		16
18	85.0	-	-	71.0	-		59.0	-		50.0		. .	18
20	77.5		-	71.0	-		59.0	-		50.0	·	<u>-</u>	20
. 22	70.5	-		69.0			59.0	-		50.0 50.0	-] ~ j	24
24	63.0	54.5	!	63.0	-		59.0 56.5		ļ "	50.0		ļ Ţ	26
26	57.0	51.5	·	56.5 51.5			51.5	-	ļ <u>-</u> ļ	49.1	<u>_</u>		28
_ 28 30	51.5	47.0 43.1	<u>-</u> :	47.5	- 42.8		47.1		<u> </u>	47.1			30
3u 34		36.7		40.5	36.5		40.2	36.0	·	40.1	35.8	_	34
38	[31.8	28.5	-0.0	31.6	· · · · · · ·	34.8	31.0	·	34.7	31.0	· -	38
42	[31.0	25.0	. <u>.</u>	27.8	24.8		27.3		30.6	27.1	-	42
46	-	_	22.3	-		22.0		24.3	21.5	27.1	24.1	-	46
50				-		19.6	- !	-	19.1	-	21.6	18.5	50
54	-	_	1	-	-				17.1		19.5	16.7	54
58		-	-	-	-	-	-	-		-		15.1	58
62			T'' -	- ;	-	-	-	-	-			13.7	62
63	-				-		-	-	-			13.4	63
lultiplying	1	7			5			5			4		Multiplying
factor				:							CC		factor
Radius	0.50	48	i ore	0.50	54 75°	65°		60 75°	65°	85°	66 75°	65°	Radius
	85°	75° t	65°	85°	t t	65	85° t	75 1	03	1	t		m
m 17	4445	ı	•	٠.				_	1 5	· •			17
18	42.2 42.2	-	1 [1	35.7	-	<u> </u>	-		:		_		18
20	42.2	- ·	1 7	35.7			30.1	-				i - i	20
21	42.2			35.7		· _	30.1	-		25.6	_		21
22	42.2			35.7			30.1	_		25.6	-	<u> </u>	22
24	42.2	-	· _	35.7			30.1		-	256	-	-	24
26	42.2			35.7	-	-	30.1	-	-	25.6 25,6	-	·	26
28	42.2	-	-	35.7	-	-	30.1	~	-	25,6	-	-	28
30	42.1	-	-	35.7		-	30.1	-	· -	25.6			30
34	39.7	:	-	35.2	-		30.1	-	· ·	24.1	-	-	34
38	34.2	30.5	.	33.7	-		29.1		-	22.8			38
42	30.1	26.6	- "	29.8	26.2	. .	27.6	25.8	-	22.1		-	42
46	26.6	23.6		26.3	23.1		26.0	22.6	-	21.3	21.0		46
50	23.8	21.1		23.6	20.6	-	23.1	20.1	.	20.6	19.7		50
54		18.8	16.0	21.3	18.6		20.8	18.1	40.0	19.8	17.6 15.9		54 58
58		17.0	14.4	18.5	16.8	13.6	18.5	16.1 14.5	12.9 11.6	18.5 16.8	15.9	10.B	62
62		-	12.8		15.1	12.3 11.1	17.1	14.5	10.5	15.3	12.8	9.7	66
66			11.8	- 1	13.8	10.1	1 - 5	12.0	9.5	12.5	11.5	8.7	70
70 74	- 1		· · ·	1 1	"	9.2	<u>-</u>	12.0	8.6	12.0	10.5	7.8	74
74 78	7 1	-				3.2	1 [-	7.6	· -	9.5	7.0	78
		-	1	j. – .	· · 	-	1 - 1				0.0	6.3	82
		_	1 _		_		: - :	-					
82			<u> </u>			+		-	· -			5.6	86
	-	- - : 3	-	- !	3	 		- 3	<u>.</u> [-	2		



²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does



³⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ The elevation angle of the boom at the place of * is 87°.

Load Chart of Luffing Jib Operating Condition

	fing jib												: ::
		24			30	The state of		36			42		
Radius	85°	75°	65°	85°	30 75°	65°	85°	36 75°	65°	85°	42 75°	65°	Radius
m	: t	t	t	t	t	t	- t i	t .	1	<u> </u>	t	t	m
12	61.5*	-	-	-	-	1	; - i	-	-	- 1	-	-	12
14	61.5*			52.51 52.51	_	-	- (-	-		· ·		14
15	61.5	_		E2 5*	-	-	44 7*	_	_	1 . 1	-	-	15
16	61.5		ļ <u>.</u>	52.5		F	44.7*		1	38.2*	_	_	16
18	61.5		 	272		i	44.7	_	_	38.2* 38.2 38.2	_		18
20	61.5			52.5 52.5 52.5	-	-	44.7	-	_	90.9			20
22	FO 0	-			-	1 -	44.7		 	20.2	-	-	22
	59.0			DX D	.		44.7	.	ļ 	00.Z			
24	57.0		.	50.5	-	ļ .	100 5 566	-	-	38.2	-	-	24
26	54.5			49.0	-		44.0			38.2			26
28	50.5			47.1		ļ <u>-</u>	42.3	<u>.</u>		38.0	.		28
30	46.6	40.6	- <u>-</u>	45.3			40.7	-	<u> </u>	36.7		<u> </u>	30
34	-	34.5	-	39.7	34.3	-	37.8	33.8 29.3 25.6		34.1	-	-	34
38	-	29.8			29.6	-	34.2	29.3		31.6	28.7	-	38
42	-	-	_		26.1	-	30.1	25.6		29.8	25.4	-	42
46		-	19.4		23.1	18.5		22.6	-	26.6	22.6		46
50	_	-	17.3	- i		16.6	-	20.3	15.9	: - <u>-</u>	20.1	-	50
54		-	· ··· <i>· · · · · · · · · ·</i>	<u>-</u>		15.0	1		14.3		18.1	13.4	54
58	_	_	_	· _	_			_	12.9		16.3	12.1	58
62		i				1	'		11.7	1	10.5	10.9	62
66	-	-	-	- i	-	: -	- 1	-	11.1	· -	_		
			. -	1	-		- !	-	i -		-	9.9	66
68				i					L		-	9.4	68
lultiplying		5		ļ	4			4			3		Multiplyi
factor													factor
Radius		48		I	54		·	60			66		Radius
radius	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	Naulus
m	t	t	t	t	t	t	t	t	1	t	t	t	m
18	32.7*	-	_	- 1	-	-	- '	-	-	- ' '	•		18
19	32.7*	_	-	27.8*	_		_	_	_	_	_ `	- '	. 19
20	32.7*	_		27.8*	_	-	23.8*	_	-	_	_	: _	20
22	327	_	-	27.6*	-		23.8*	-	_	20.3*	_		22
23	32.7 32.7	_		27.8		i .	22.0*			20.38			23
24	32.7	· · · · · · · · · · · · · · · · · ·	 	27.8		 	23.8* 23.8		<u> </u>	20.3° 20.3°		}T	24
24	02.7	-	_	27.8	-	_	20.0	-	-	20.3	-	. -	
26	32.7 32.7 32.7			27.0	-	-	23.8	-		20.3	-		26
28	32.7	-		27,8	-	ļ <u>-</u>	23.8	-	-	20.3	~	<u>.</u>	28
30	327			27.8			23.8	-	i	20.3	-		30
34	30.6	-	-	27.3	-		23.1			20.3			34
38	28.6	-	-	25.5	-	-	22.0	-	-	19.8	-		38
42	26.6	24.6	_	23.8	23.2		20.8	-		18.8	-	-	42
46	25.1	21.9		22.1	21.1		19.6	19.4	-	17.6	-	-	46
50	23.3	19.6		21.0	18.9		18.5	18.1		16.5	17.3	-	50
54	21.0	17.6	-	19.6	17.0		17.3	16.3		15.4	15.5		54
58		15 B	11.3	18.3	15.3	-	16.3	14.7		14.5	13.9	T	58
58 62	-	15.8 14.3	10.2	1 - 1	13.8	9.3	15.3	13.1		13.5	12.5	_	62
66	_	17.0	9.2		12.5	8.4	10.0	11.9	7.7	12.6	11.3	1 - 2	66
70	4		g 2	i []	11.4	7.5	i -	10.6	6.9		10.2	6.0	
	-	-	8.3 7.5		.11.4		L			11.6	0.2		70
74			7.5	ļ		6.8	. - .	9.6	6.1		9.3	5.3	74
78			.	ļ . ļ	-	6.1	. - .		5.4		8.4	4.7	78
82		-	-	-	-			-	4.8		-	4.1	82
86					-		. - .	-			-	3.5	86
90		-	-	-	-	_			-		-	3.0	90
				1 1		*				-			Multiplyi
lultiplying		3			2			2			2		: INGULATION

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ The elevation angle of the boom at the place of * is 87°.

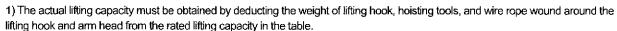
⁵⁾ When the boom is ≥60.7m, a wedged pad needs to be added in front of the crawler belt.

Load Charts of Mixed Boom

Load Chart of Luffing Jib Operating Condition

Rear counterweight + central counterweight:150t+40t Boom:66.7m

D 11	1	24		:	30			36			42	:	
Radius	85°	75°	65°	85°	75°	65°	85°	75°	65"	85°	75°	65°	Radius
m	t	t	. t	t	ŧ	· t	t	t	t	t	1	l t	m
12	52.0 52.0		-	-	-	_	-	-	-			1	12
14	520	_		44.7			_	_		-		·	14
15	52.0	_		44.7			381	_	_				15
16	Ra h		+	44.7			38.1				=	_	16
17	52.0 52.0	_	1 -	44.7		+	38.1		f	32.7	·	-	17
18	52.0	:			-				4	22.7	·-	-	
		• .	ļ <u>-</u>	44.7	-		38.1			32.7		ļ	18
20	52.0	. .	<u>-</u>	44.7	.	-	38.1	-	-	32.7		.l	20
22	50.0		-	44.7	<u>-</u>		38.1	-	-	32.7 32.7	-		22
24	48.2	-		43.5		: -	38.1	-	-		-		24
26	46.2			41.8	-	-	37.6	-	-	32.7	-	-	26
28	44.7	-	í -	40.2	-	-	36.2	-	-	32.7		T -	28
30	43.0		-	38.6	_		34.7	-	1 1	31.5		-	30
34		33.5	-	36.0	32.8		32.0	_	:	29.1	_		34
38	_ i	28.8			28.8		30.0	28.0		26.8			38
42		25.3	i -	-	25.1		28.0	24.8		25.1	23.9	ļ 	42
46	7	20.0	17.5			-	20.0		-		23.9		42
50		.		-	22.3		-i	21.8		23.5	21.3		46
	- i	-	15.7			14.7	- .	19.6			19.2		50
54	- 1	-	-		-	13.3		17.6	12.6	-	17.3	-	54
58	-	-	·			12.0		-	11.3	- :	15.6	10.4	58
62	-	-	· -		-	-	-	-	10.2	- !	-	9.4	62
66	- "!	_	_	-	-	-	·· · · · -	-	-	· - i	-	8.5	66
70	::::-	· · · ·						· · · · · · · · · ·		_	_	7.6	70
71		_				_	1 . 1					7.4	71
Multiplying	1						† t		_	- 1		7.7	Multiplyin
		4		!	4			3			3		
factor	i.			i						i			factor
Radius		48	250		54		·	60			66		Radius
	85°	75°	65°	65°	75°	65°	65°	75^	65°	85"	75 [^]	65°	
m 18	1	t	. t.	1	,t	t	t	t	t	1 :	1	ţ	m
18	27.8	-	.	- :	-	-	i . .	.	-		. **	-	18
19	27.8	-	. - .	24.1			1			- :	-	-	19
20	27.8	_		24.1	-	-	-	-	-	-	-	_	20
													21
21	27.8			24.1	-	-	20.6	-		: -	-	-	Z 1
	27,8 27,8 27,8		ļ <u></u>		-	-	20.6	-	_	17.6	-		
22	27.8	<u>.</u> .	 <u>-</u>	24.1	-	<u> </u>	20.6	<u>-</u>		17.6 17.6	<u>-</u>	·	22
22 23	27.8 27.8		 	24.1 24.1	-	-	20.6 20.6	<u>-</u>	<u> </u>	17.6	<u>-</u>	· · · · ·	
22 23 24	27.8 27.8 27.8			24,1 24,1 24.1	-	-	20.6 20.6 20.6	<u>-</u> - <u>-</u> -		17.6 17.6	<u>-</u>	<u> </u>	22 23 24
22 23 24 26	27.8 27.8 27.8 27.8 27.8	- - -		24.1 24.1 24.1 24.1	-	- - -	20.6 20.6 20.6 20.6	<u>-</u> 	<u> </u>	17.6 17.6 17.6	<u>-</u>		22 23 24 26
22 23 24 26 28	27.8 27.8 27.8 27.8 27.8 27.8		-	24.1 24.1 24.1 24.1 24.1	-	- - - - -	20.6 20.6 20.6 20.6 20.6		<u> </u>	17.6 17.6 17.6 17.6	- - - -	<u> </u>	22 23 24 26 28
22 23 24 26 28 30	27.8 27.8 27.8 27.8 27.8 27.8		-	24.1 24.1 24.1 24.1 24.1 24.1	- - - - - - -	- - - - - -	20.6 20.6 20.6 20.6 20.6 20.6 20.5	- - - - -	- - -	17.6 17.6 17.6 17.6 17.6	-	· · · · · · · · · · · · · · · · · · ·	22 23 24 26 28 30
22 23 24 26 28 30 34	27.8 27.8 27.8 27.8 27.8 27.8 27.8 26.0		-	24.1 24.1 24.1 24.1 24.1 24.1 23.3		- - - - - -	20.6 20.6 20.6 20.6 20.6 20.5 19.6			17.6 17.6 17.6 17.6 17.6 17.6			22 23 24 26 28 30 34
22 23 24 26 28 30 34 38	27.8 27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0			24.1 24.1 24.1 24.1 24.1 24.1 23.3 21.6			20.6 20.6 20.6 20.8 20.6 20.5 19.6 18.6			17.6 17.6 17.6 17.6 17.6 17.6 17.6			22 23 24 26 28 30 34 38
22 23 24 26 28 30 34 38 42	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1	23.1		24.1 24.1 24.1 24.1 24.1 24.1 23.3			20.6 20.6 20.6 20.6 20.6 20.5 19.6			17.6 17.6 17.6 17.6 17.6 17.6	- - - - - - -		22 23 24 26 28 30 34
22 23 24 26 28 30 34 38	27.8 27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0	23.1	-	24.1 24.1 24.1 24.1 24.1 24.1 23.3 21.6	18.1		20.6 20.6 20.6 20.8 20.6 20.5 19.6 18.6	16.1		17.6 17.6 17.6 17.6 17.6 17.6 17.6	- - - - - - - -		22 23 24 26 28 30 34 38
22 23 24 26 28 30 34 38 42	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1			24.1 24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1	18.1		20.6 20.6 20.6 20.8 20.6 20.5 19.6 18.6 17.5	16.1		17.6 17.6 17.6 17.6 17.6 17.6 17.6 16.8 15.8 14.6	13.1		22 23 24 26 28 30 34 38 42
22 23 24 26 28 30 34 38 42 46 50	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5		24.1 24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5	17.1		20.6 20.6 20.6 20.6 20.5 19.6 18.6 17.5 16.3 15.3	15.1		17.6 17.6 17.6 17.6 17.6 17.6 16.8 15.8 14.6 13.5	- 13.1		22 23 24 26 28 30 34 38 42 46 50
22 23 24 26 28 30 34 38 42 46 50	27.8 27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8	20.6 18.5 16.7		24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8		20.6 20.6 20.6 20.6 20.6 20.6 19.6 18.6 17.5 16.3 15.3 14.3	15.1 14.1		17.6 17.6 17.6 17.6 17.6 17.6 16.8 15.8 14.6 13.5 12.5	12.1		22 23 24 26 28 30 34 38 42 46 50
22 23 24 26 28 30 34 38 42 46 50 54	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0	-	24.1 24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5	17.1 15.8 14.3		20.6 20.6 20.6 20.6 20.6 20.5 19.6 18.6 17.5 16.3 15.3 14.3	15.1 14.1 13.1		17.6 17.6 17.6 17.6 17.6 16.8 15.8 14.6 13.5 13.5 11.6	12.1 11.1		22 23 24 26 28 30 34 38 42 46 50 54 58
22 23 24 26 28 30 34 38 42 46 50 54	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0		20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1	-	17.6 17.6 17.6 17.6 17.6 17.6 16.8 15.8 14.6 13.5 12.5 10.9	12.1 11.1 10.1		22 23 24 26 28 30 34 38 42 46 50 54 58 62
22 23 24 26 28 30 34 38 42 46 50 54 58 66	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0	8.7 7.8	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0 11.8	6.9	20.6 20.6 20.6 20.6 20.6 20.5 19.6 18.6 17.5 16.3 15.3 14.3	15.1 14.1 13.1 12.1 11.1	6.2	17.6 17.6 17.6 17.6 17.6 17.6 15.8 15.8 14.6 13.5 12.5 11.6 10.9 10.0	12.1 11.1 10.1 9.3		22 23 24 26 28 30 34 38 42 46 50 54 58 62 66
22 23 24 26 28 30 34 38 42 46 50 54 58 62 66 70	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7 7.8 7.0	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0	6.2	20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1 11.1 10.0	5.5	17.6 17.6 17.6 17.6 17.6 17.6 16.8 15.8 14.6 13.5 12.5 10.9	12.1 11.1 10.1 9.3 9.0	4.6	22 23 24 26 28 30 34 38 42 46 50 54 54 58 62 66
22 23 24 26 28 30 34 38 42 46 50 54 62 66 70	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7 7.8	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0 11.8	6.2 5.1	20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1 11.1	5.5 4.8	17.6 17.6 17.6 17.6 17.6 17.6 15.8 15.8 14.6 13.5 12.5 11.6 10.9 10.0	12.1 11.1 10.1 9.3 9.0 8.4	4.0	22 23 24 26 28 30 34 38 42 46 50 54 58 62 66 70
22 23 24 26 28 30 34 38 42 46 50 54 56 70 74 78	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7 7.8 7.0	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0 11.8	6.2 5.1 4.9	20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1 11.1 10.0	5.5 4.8 4.2	17.6 17.6 17.6 17.6 17.6 17.6 15.8 15.8 14.6 13.5 12.5 11.6 10.9 10.0	12.1 11.1 10.1 9.3 9.0 8.4 7.6	4.0 3.4	22 23 24 26 28 30 34 38 42 46 50 54 58 62 66 70 74 78
22 23 24 26 28 30 34 38 42 46 50 54 62 66 70	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7 7.8 7.0	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0 11.8	6.2 5.1	20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1 11.1 10.0	5.5 4.8	17.6 17.6 17.6 17.6 17.6 17.6 15.8 15.8 14.6 13.5 12.5 11.6 10.9 10.0	12.1 11.1 10.1 9.3 9.0 8.4	4.0 3.4	22 23 24 26 28 30 34 38 42 46 50 54 54 58 62 66 70 74 78 82
22 23 24 26 28 30 34 38 42 46 50 54 58 62 67 74 78 82	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7 7.8 7.0	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0 11.8	6.2 5.1 4.9	20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1 11.1 10.0	5.5 4.8 4.2 3.7	17.6 17.6 17.6 17.6 17.6 17.6 15.8 15.8 14.6 13.5 12.5 11.6 10.9 10.0	12.1 11.1 10.1 9.3 9.0 8.4 7.6	4.0	22 23 24 26 28 30 34 38 42 46 50 54 54 58 62 66 70 74 78
22 23 24 26 28 30 34 38 42 46 50 54 56 66 70 74	27.8 27.8 27.8 27.8 27.8 27.8 26.0 24.0 22.1 20.8 19.5	20.6 18.5 16.7 15.0 13.5	8.7 7.8 7.0	24.1 24.1 24.1 24.1 24.1 23.3 21.6 20.1 18.5 17.5 16.3	17.1 15.8 14.3 13.0 11.8	6.2 5.1 4.9	20.6 20.6 20.6 20.6 20.6 20.5 19.6 17.5 16.3 15.3 14.3 12.5	15.1 14.1 13.1 12.1 11.1 10.0	5.5 4.8 4.2	17.6 17.6 17.6 17.6 17.6 17.6 15.8 15.8 14.6 13.5 12.5 11.6 10.9 10.0	12.1 11.1 10.1 9.3 9.0 8.4 7.6	4.0 3.4	22 23 24 26 28 30 34 38 42 46 50 54 58 62 66 70 74



²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

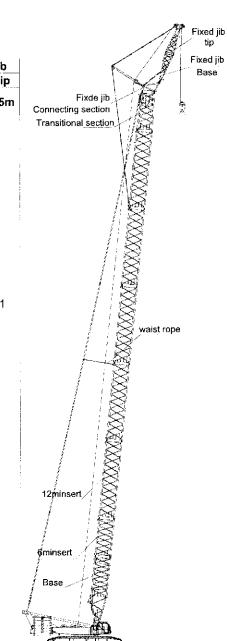
- 4) The elevation angle of the boom at the place of * is 87°.
- 5) When the boom is ≥60.7m, a wedged pad needs to be added in front of the crawler belt.



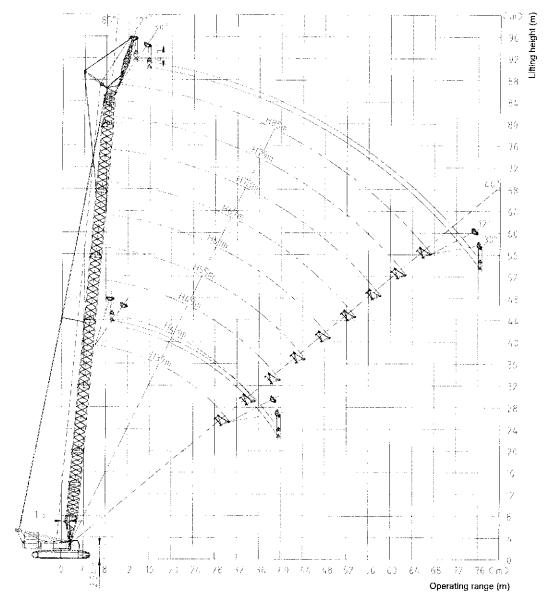
³⁾ When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.

FJ Operating Condition of Fixed Jib Combination of Boom + Fixed Jib

	D		Inna		Transition	Connecting		d Jib
Boom Length	Base		Insert		section	section	Base	Tip
(m)	11.2m	6m	12mA	12mB	6m	1.8m	4.5m	4.5m
37	1	1	_	1	1	1		
	1	<u> </u>	1	1	1	1		:
43	1	2	:	1	1	1		
49	1	1	1	1	1	1		
	1	_	2	1	1	1		
55	1	2	1	1	1	∵1		
61	1	1	2	1	1	1	1	1
	1		3	1	1	1		
67	1	2	2	1	1	1		
73	1	1	3	1	1	1		
70	1		4	1	1	1		
79	1	2	3	1	. 1	1		
85	1	1	4	1	1	1	: : :	



Operating Range Diagram of Fixed Jib Operating Condition



Operating range diagram of fixed jib (FJ) operating condition

Load Charts of Fixed Jib

			J[*]+9m, counterwe			iting Cond	ition			
Radius (m)	37m	43m	49m	55m	61m	67m	73m	79m	85m	Radius (m)
10	75.0	74.5	<u> </u> -		_		-	_		10
11	74.5	73.8	73.0	: ' ' -	-	-	-	-	-	11
12	74.0	73.2	72.8	72.5	72.0	71.5		-		12
14	73.5	72. 7	72.3	72.1	71.8	71.3	70.7	70.0	69.0	14
16	73.0	72.5	72.0	71.7	71.4	70.6	70.3	69.0	67.0	16
18	72.5	72.0	71.8	71.5	71.0	70.1	69.2	68.5	65.0	18
20	71.2	70.7	70.3	70.0	69.0	68.0	67.0	65.0	61.0	20
22	62.4	62.0	61.5	61.0	60.5	60.0	59.5	58.0	55.0	22
24	55.6	55.2	54.4	54.0	53.5	53.0	52.5	51.0	48.0	24
26	50.0	49.2	48.8	48.4	47.6	47.2	46.8	46.4	45.6	26
28	45.2	44.8	44.0	43.6	42.8	42.4	41.6	41.0	40.8	28
30	41.2	40.8	40.0	39.6	38.8	38.4	38.0	37.6	36.8	30
32	37.6	37.2	36.4	36.0	35.2	34.8	34.4	34.0	33.2	32
34	34.8	34.0	33.6	32.8	32.4	31.6	31.2	30.8	30.0	34
36	32.0	31.6	30.8	30.4	29.6	29.2	28.4	28.0	27.2	36
38	29.6	29.2	28.4	28.0	27.2	26.8	26.2	25.5	24.8	38
40		27.2	26.4	26.0	25.2	24.4	24.0	23.6	22.8	40
42	-	25.4	24.6	24.2	23.4	22.8	22.2	21.9	21.4	42
44		23.6	22.8	22.4	21.6	21.2	20.4	20.2	20.0	44
46	-	i .	21.4	20.8	20.2	19.6	18.8	18.7	18.2	46
48			20.0	19.2	18.8	18.0	17.2	17.2	16.4	48
50	-	· _		18.0	17.6	16.8	16.0	16.0	15.2	50
52			-	16.8	16.4	15.6	14.8	14.8	14.0	52
54	-				15.2	14.6	13.8	13.8	12.8	54
56	-	-		-	14.0	13.6	12.8	12.8	11.6	56
58 <u> </u>				_	13.2	12.6	12.0	11.8	10.8	58
60			 -	-		11.6	11.2	10.8	10.0	60
62					-	10.8	10.4	10.0	9.2	62
64		·			· ·	10.0	9.6	9.2	8.4	64
66	_	T .	1 -			_	8.8	8.4	7.6	66
68		 		: :	-		8.0	7.6	6.8	68
70	_			:	-	:	- '	7.0	6.2	70
72			1	·· · · · · · · · · · · · · · · · · · ·	-	; •	-	-	5.6	72
74	_	1 2 1 1		-		-	-i -· · · -		5.0	74
Multiplying factor	6	6	6	6	6	- 6	6	5	5	Multiplying factor

- 1) The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.
- 2) The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.
- 3) When the crane boom is ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤9.8m/s.
- 4) When the boom is ≥73m, a wedged pad needs to be added in front of the crawler belt.

Load Charts of Fixed Jib

Rear coun	iterweight	+central o	counterwe	ight:150t	+40t				2000000000	
Boom	37m	43m	49m	55m	61m	67m	73m	79m	85m_	Boom
Radius (m)	t	t	t	t	t	t	t	t	t	Radius (m)
12	60.0	· · · · · ·	-	-	. + '	-	-	- -		12
13	58.0	55.0	53.0	-		-	-	-	·	13
14	56.7	54.0	52.0	50.0	48.0		-		<u> - </u>	14
15	54.5	53.0	51.0	49.0	47.0	45.0	43.0	-	-	15
16	52.9	52.0	50.0	48.0	46.0	44.0	42.0	41.0	40.0	16
18	49.0	48.5	47.0	46.0	45.0	43.0	41.0	40.0	39.0	18
20	46.9	46.0	45.5	44.0	43.0	41.0	40.0	39.0	38.0	20
22	44.5	43.5	42.5	42.0	41.0	40.0	39.0	38.0	37.0	22
24	42.5	42.0	41.0	40.0	39.5	39.0	38.0	37.D	36.0	24
26	39.6	39.2	38.9	38.2	37.8	37.5	36.8	36.4	35.0	26
28	36.1	35.7	35.4	34.7	34.3	33.6	33.3	32.9	32.6	28
30	32.9	32.6	32.2	31.5	31.2	30.8	30.1	29.8	29.4	30
32	30.8	30.1	29.4	29.1	28.4	28.0	27.3	27.0	26.6	32
34	_	27.7	27.3	26.6	26.3	25.6	25.2	24.5	24.2	34
36	-	25.6	25.2	24.5	24.2	23.5	23.1	22.4	22.1	36
38	-		23.1	22.8	22.1	21.7	21.0	21.0	20.3	38
40	···-		21.6	21.2	20.5	20.2	19.5	19.3	18.8	40
42	-	: <u>-</u>	20.0	19.6	18.9	18.6	17.9	17.5	17.2	42
44			: -	18.4	17.7	17.2	16.7	16.3	15.8	44
46	1	-		17.2	: 16.5	15.8	15.4	15.1	14.4	46
48		 : •		16.1	15.4	14.8	14.4	14.0	13.3	48
50			_	_	14.4	13.9	13.3	13.0	12.3	50
52	<u>.</u>	: _	-	·· -	13.5	13.0	12.4	12.1	11.4	52
54		· .	-	-	12.6	12.0	11.4	11.2	10.5	54
56		<u>-</u>	-	: -		11.3	10.6	10.4	9.7	56
58	_		-	-	- -	10.5	9.9	9.5	8.8	58
60		_	· · · · ·		_	9.8	9.2	8.8	8.1	60
62		- ·		-		: -	8.5	8.1	7.4	62
64	-			-	: -	· <u>-</u>	7.8	7.6	6.9	64
66		1 .	-	-		· -	-	7.0	6.3	66
68		_		· -	-	: -		6.4	5.6	68
70		<u>-</u>		÷ _			_		5.0	70
ultiplying factor	5	4	4	: 4	. 4	4	4	3	3	Multiplying fa

¹⁾ The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.

²⁾ The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

³⁾ When the crane boom is \leq 50m long, the permissible wind speed is \leq 13.8m/s; when the boom is \geq 50m long, the permissible wind speed is ≤9.8m/s.

⁴⁾ When the boom is ≥60m, a wedged pad needs to be added in front of the crawler belt.



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