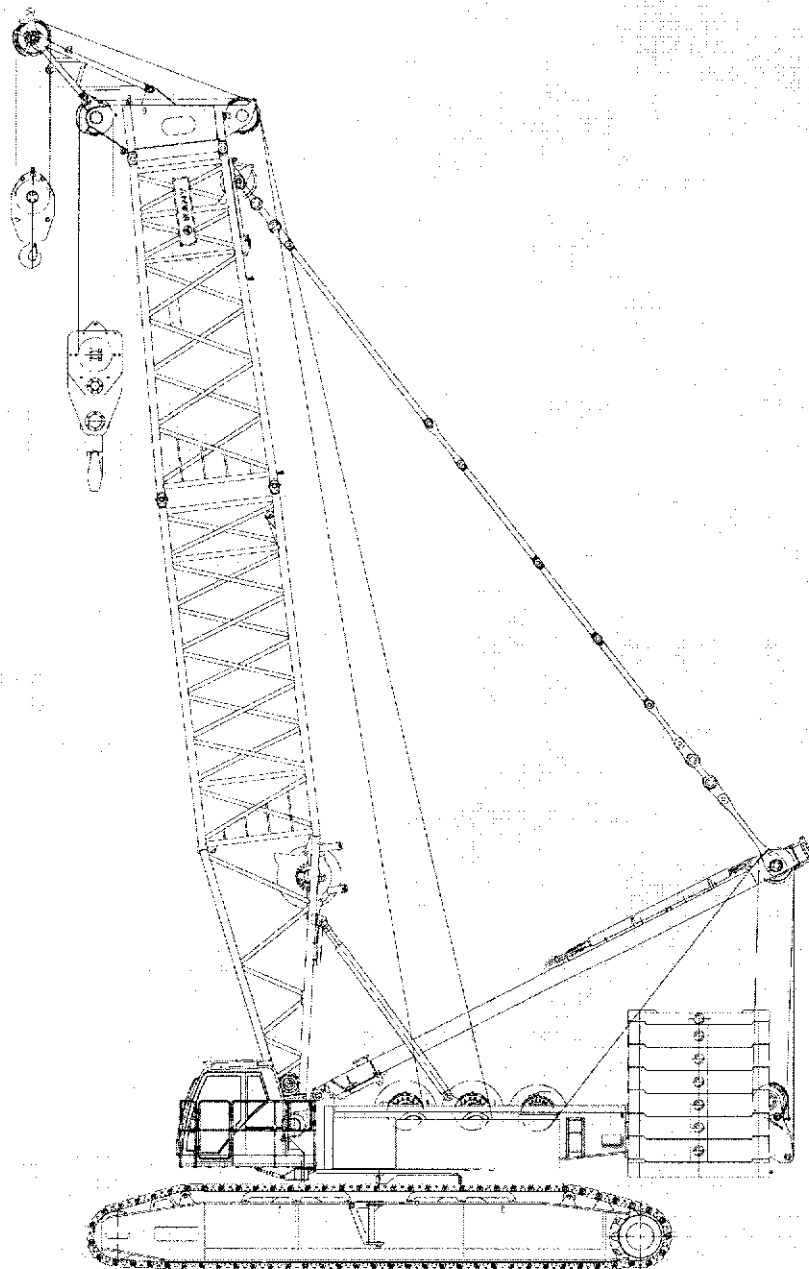




Crawler Crane Series SCC3200





A	SCC3200 crawler crane	03
	Basic Dimensions of the Whole Machine	04
	Main Technical Features	05
	Performance Data	06
	Transport Dimensions	07
	Transportation Solution	12
	Assembly/Disassembly Diagram	16

B	Specifications	18
	Superworks	19
	Lowerworks	21
	Operation Devices	22
	Safety Devices	23

C	Operating Condition Combination	26
	H Operating Condition of Boom	27
	Operating Range Diagram of Boom	28
	Load Charts of Boom	29
	HJ Operating Condition of Mixed Boom/Mixed Boom Combination	35
	Operating Range Diagram of Mixed Boom Operating Condition	36
	Load Charts of Mixed Boom	37
	LJ Operating Condition of Luffing Jib	41
	Operating Range Diagram of Luffing Jib	42
	Load Charts of Luffing Jib	44
	FJ Operating Condition of Fixed Jib	48
	Operating Range Diagram of Fixed Jib Operating Condition	49
	Load Charts of Fixed Jib	50

SCC3200



A

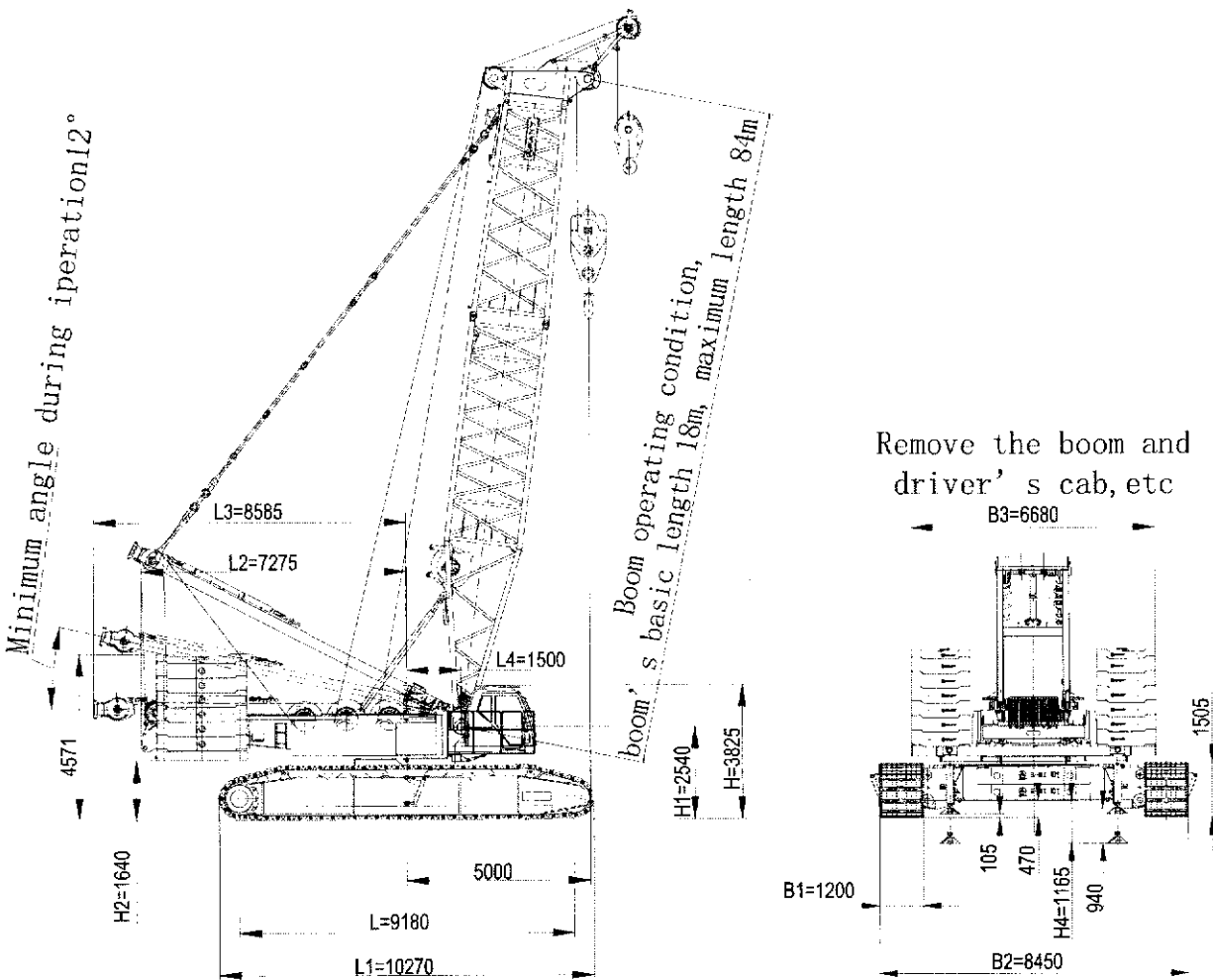
04	Basic Dimensions of the Whole Machine
05	Main Technical Features
06	Performance Data
07	Transport Dimensions
12	Transportation Solution
16	Assembly/Disassembly Diagram



A

SCC3200 Crawler Crane Series
Basic Dimensions of the Whole Machine

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;

9. 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 human-machine 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.



A

SCC3200 Crawler Crane Series
Performance Data

Performance Data

Main Performance Data

Main performance data of SCC3200 crawler crane

Boom operating condition (H)	Max. lifting capacity/ operating radius	320 t/5 m (basic arm 18m)
	Length of boom	18~84 m
	Boom luffing angle	30°~85°
	Max. lifting torque	274t×8m=2192 tm
Operating condition of boom with variable section (HJ)	Max. lifting capacity/ operating radius	130 t/7m (Boom with variable section 44.2m)
	Length of boom with cross section of reducing boom	44.2~104.2m
	Luffing angle of boom with cross section of reducing boom	30°~85°
Operating Condition of Luffing Jib (LJ)	Max. lifting capacity/ operating radius	140 t/10 m (Boom 24.7m + luffing jib 24m) (24.7~66.7)+(24~66) m
	Boom + luffing jib	
	Luffing angle of boom	65°~85° (87°)
Operating Condition of Fixed Jib (FJ)	Luffing angle of luffing jib	12°~79°
	Max. lifting capacity/ operating radius	75 t/10 m (Boom 37m + fixed jib 9m)
	Boom + fixed jib	37~85 m
Operating condition of extension arm (****C)	Luffing angle of boom	40°~85°
	Angle of fixed jib	12°, 30.5°
		Equipped with extended arm, it can be used in many operating conditions
Speed parameters	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
	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 parameters	Maximum transport weight of single piece	57 t
	Transport dimensions (length X width X height)	12650×3400×3450 mm
Weight	Crane weight	340t (The rear weight of basic machine 150t, central counterweight 40t, and basic arm 18m)
Ground pressure	Average ground pressure	0.17MPa

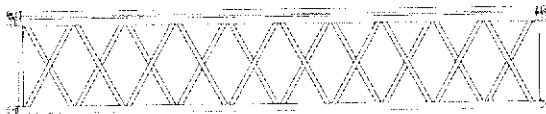
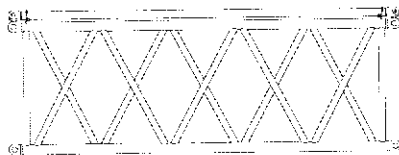
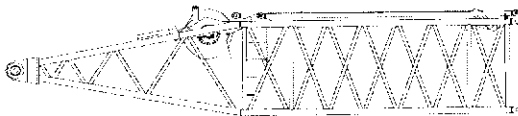
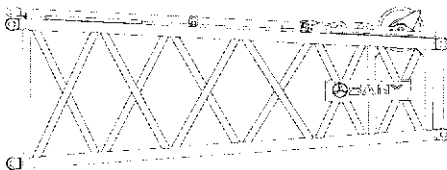
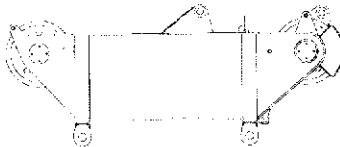
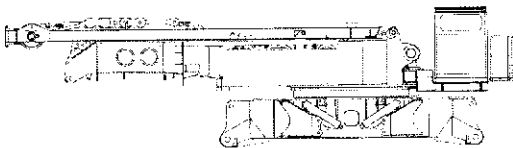


SCC3200 Crawler Crane Series
Transport Dimensions

A

Transport Dimensions

Crane body	x1
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	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	2.4m
Weight	2.5 t
12m boom insert A	x4
Length	12.2m
Width	2.6m
Height	2.4m
Weight	4.3 t



A

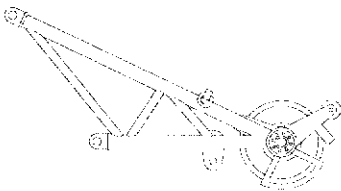
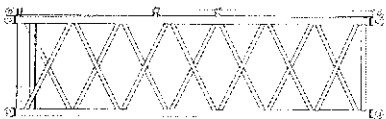
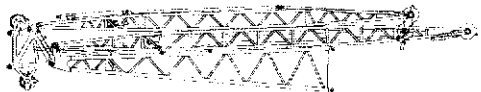
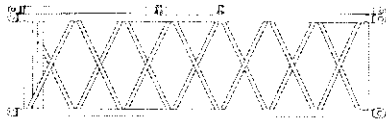
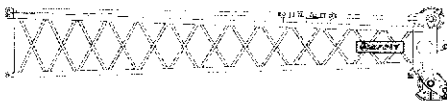
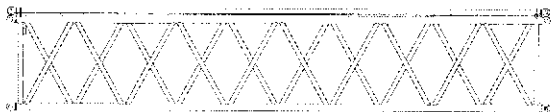


A

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	x3
Length	12.2m
Width	2.22m
Height	2.0m
Weight	2.6 t
Assembling unit of jib basic arm, jib luffing mast, jib fixed mast and connecting section	x1
Length	18m
Width	2.3m
Height	3.3m
Weight	15.2 t
Boom 6m transition section	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

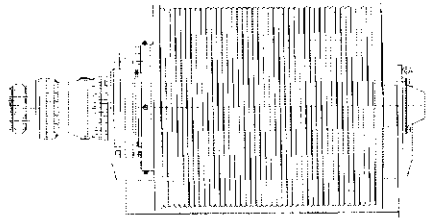
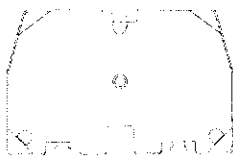
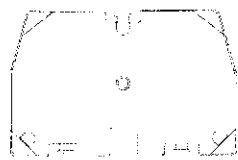
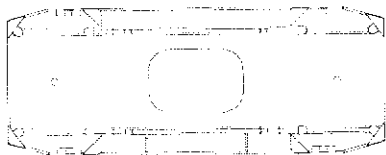
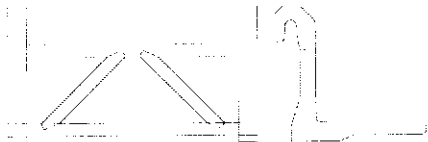
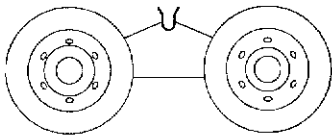


A



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	x1
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	x2
Length	2.5m
Width	1.6m
Height	0.26m
Weight	5 t
Main hoisting winch mechanism	x1
Length	2.2m
Width	1.13m
Height	1.15m
Weight	5.2 t





A

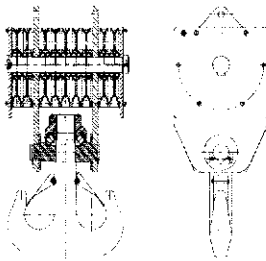
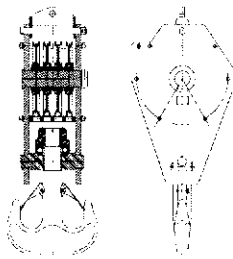
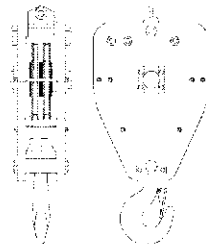
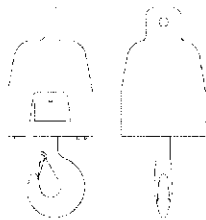
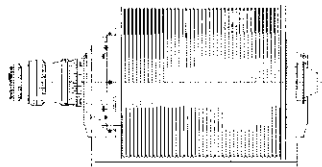
SCC3200 Crawler Crane Series

Transport Dimensions

■

Transport Dimensions

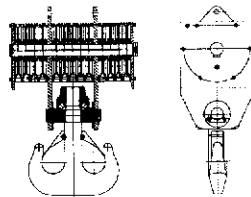
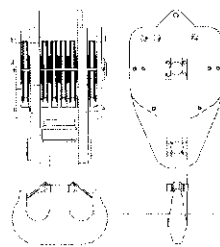
Auxiliary hoisting winch mechanism x1	
Length	2.2m
Width	1.13m
Height	1.15m
Weight	4.4 t
15t hook block x1	
Length	0.46m
Width	0.46m
Height	1.2m
Weight	0.8 t
50t hook block x1	
Length	0.80m
Width	0.60m
Height	2.15m
Weight	2.4 t
100t hook block x1	
Length	0.80m
Width	0.70m
Height	2.25m
Weight	3.0 t
150t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





Transport Dimensions

200t hook block	x1
Length	1.45m
Width	0.90m
Height	2.50m
Weight	5.0 t
320t hook block	x1
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.

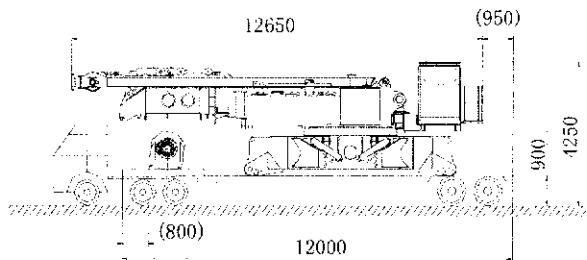


A

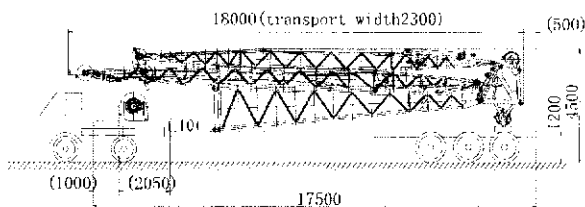
SCC3200 Crawler Crane Series
Transportation Solution

■ Transportation Solution

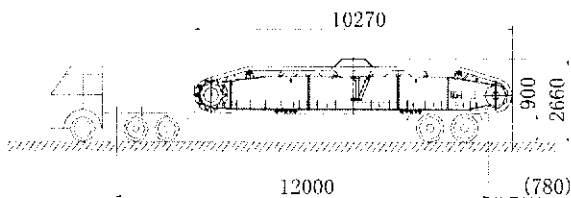
Platform truck: 12m in length, 3.2m in width, and 0.9m in height
Rated load: 60t
Transport components: basic machine, and main hoisting mechanism
Transport weight: 60t
Quantity: 1 truck



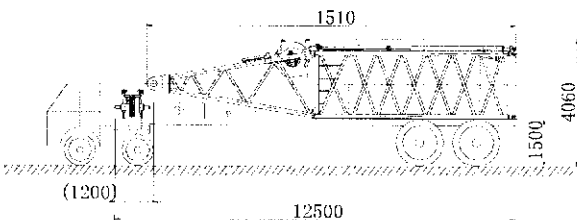
Platform truck: 17.5m in length, 3.2m in width, and 1.2m in height
Rated load: 30t
Transport components: assembling unit of jib base, jib luffing mast, jib fixed mast and connecting section, central counterweight block (1x10t), and auxiliary hoisting mechanism
Transport weight: 29t
Quantity: 1 truck



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



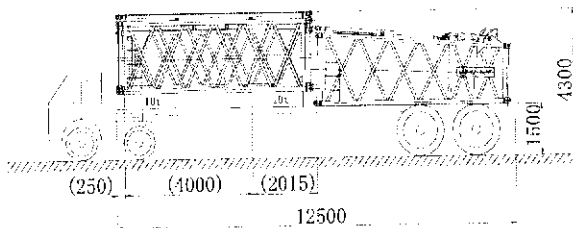


SCC3200 Crawler Crane Series
Transportation Solution

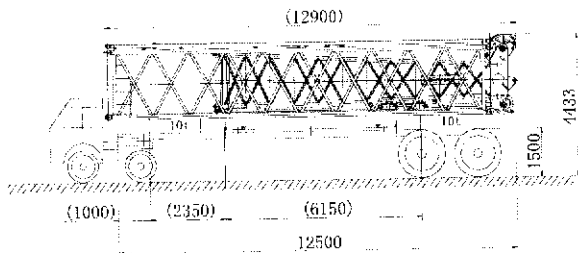
A

Transportation Solution

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

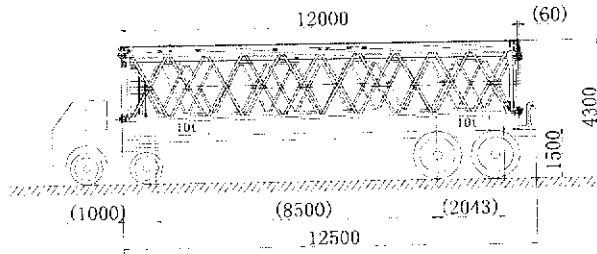


Platform truck: 12.5m in length, 3m in width, and 1.5m in height
Rated load 30t
Transport components: 12m boom insert A, jib tip, and rear counterweight block (2x10t)
Transport weight: 28t
Quantity: 1 truck

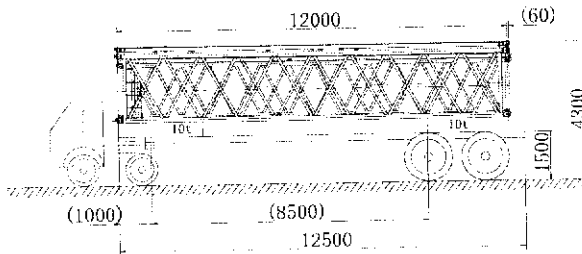


A

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



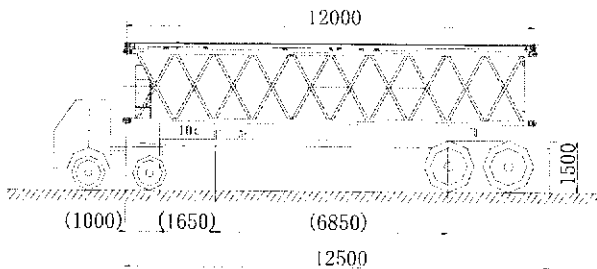


A

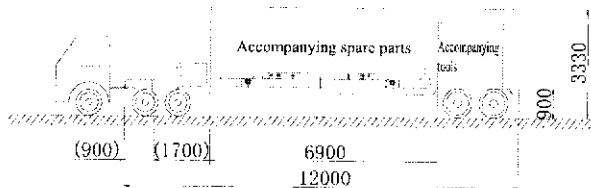
SCC3200 Crawler Crane Series
Transportation Solution

Transportation Solution

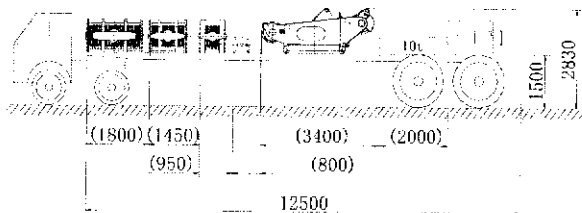
Platform truck: 12.5m in length, 3m in width, and 1.5m in height
Rated load 30t
Transport components: boom 12m boom insert B, rear counterweight block (2x10t), and rear counterweight block (1x5t)
Transport weight: 29t
Quantity: 1 truck



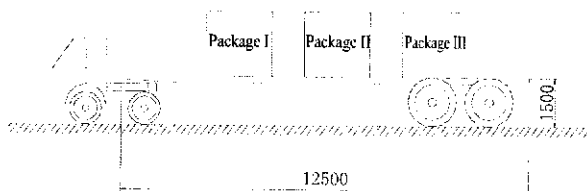
Platform truck: 12m in length, 3.2m in width, and 0.9m in height
Rated load 60t
Transport components: rear counterweight tray, central counterweight block (1x10), accompanying spare parts, and accompanying tools
Transport weight: 58t
Quantity: 1 truck



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 height
Rated load 30t
Transport components: packaging box II, and packaging box III
Transport weight: 15t
Quantity: 1 truck





■ Transportation Solution

- 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.



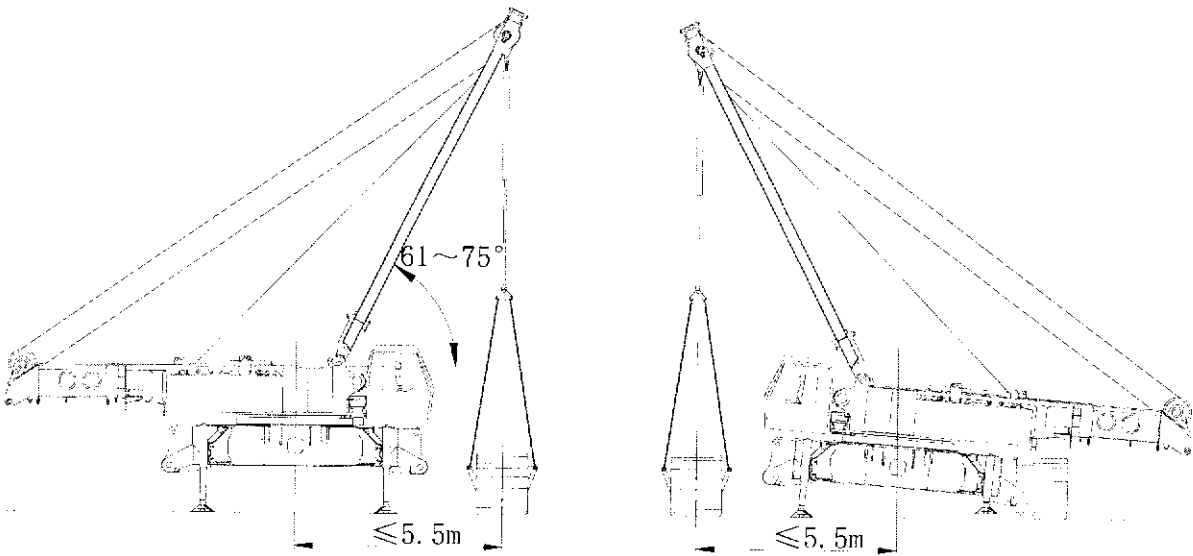
A

SCC3200 Crawler Crane Series
Assembly/Disassembly Diagram

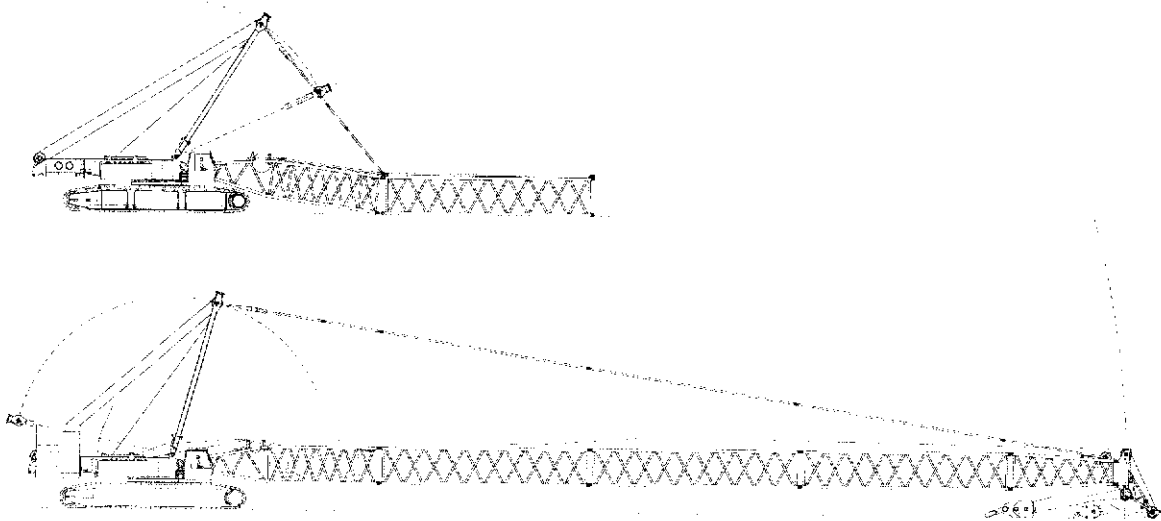
Assembly/Disassembly Diagram

Self-assembly/disassembly of crawler frame:

A



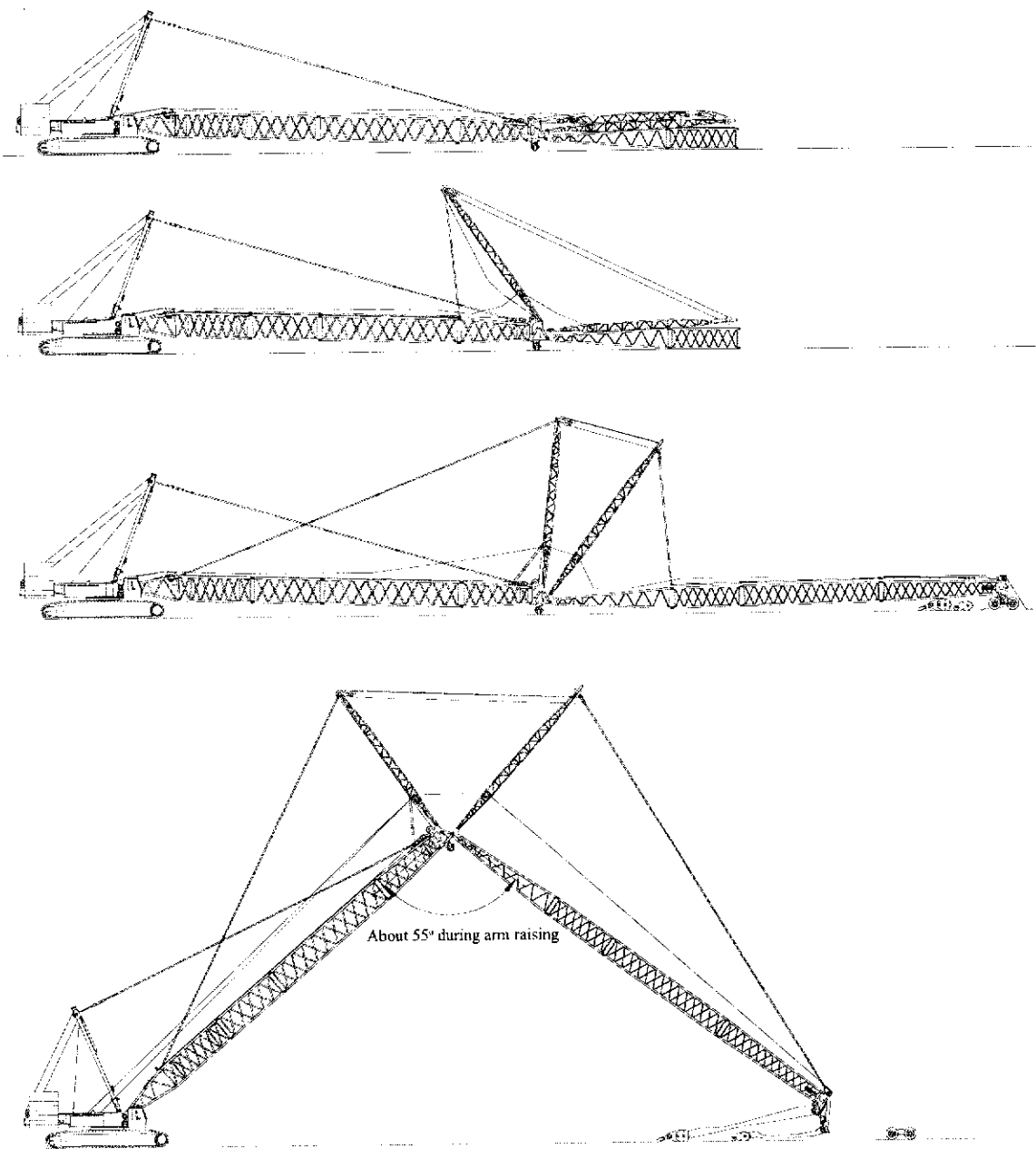
Assembly of boom:





■ Assembly/Disassembly Diagram

Self-assembly/disassembly of crawler frame:



A



B

Superworks	19
Lowerworks	21
Operation Devices	22
Safety Devices	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, human-machine 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.



B

SCC3200 Crawler Crane 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 all-enclosed 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.



Lowerworks

■ 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 tensivity of crawler assembly can be adjusted via the hydraulic jack, and an ideal tensivity 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.



B

SCC3200 Crawler Crane Series

Specifications



Operation Devices

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 tube-welded 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 high-strength 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 Crawler Crane 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 in-service 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.



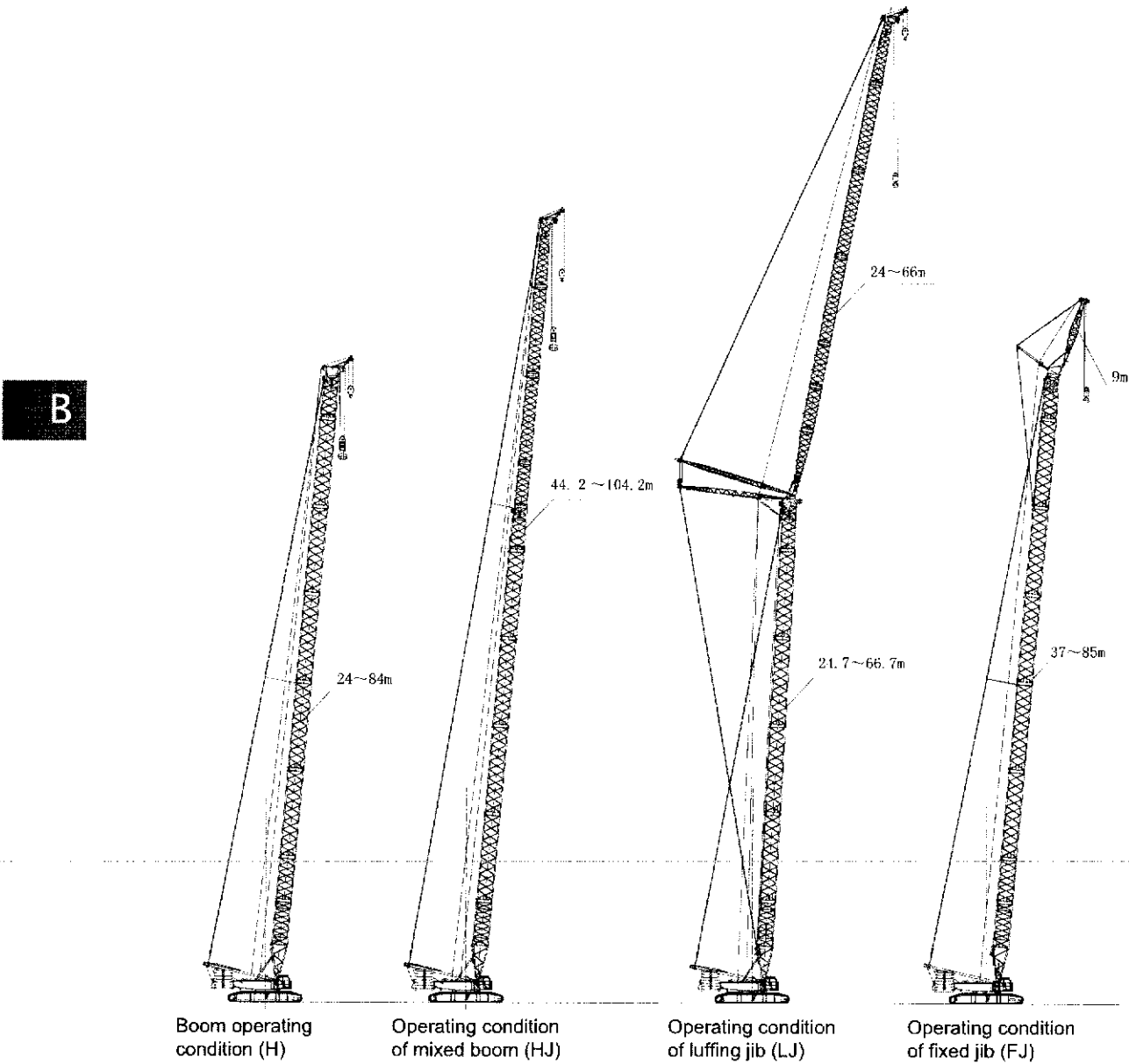
C

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
37	Load Charts of Mixed Boom
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



B SCC3200 Crawler Crane Series
Operating Condition Combination

Operating Condition Combination

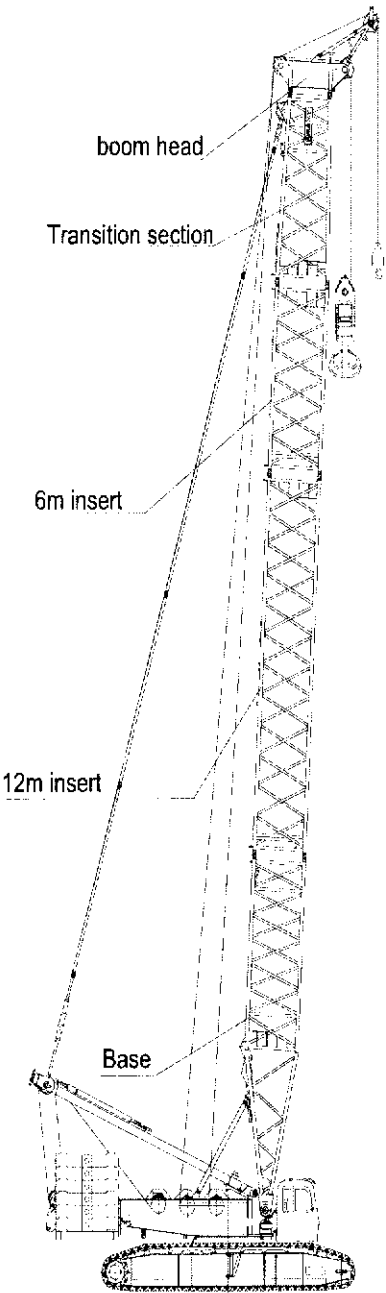




H Operating Condition of Boom

Boom combination

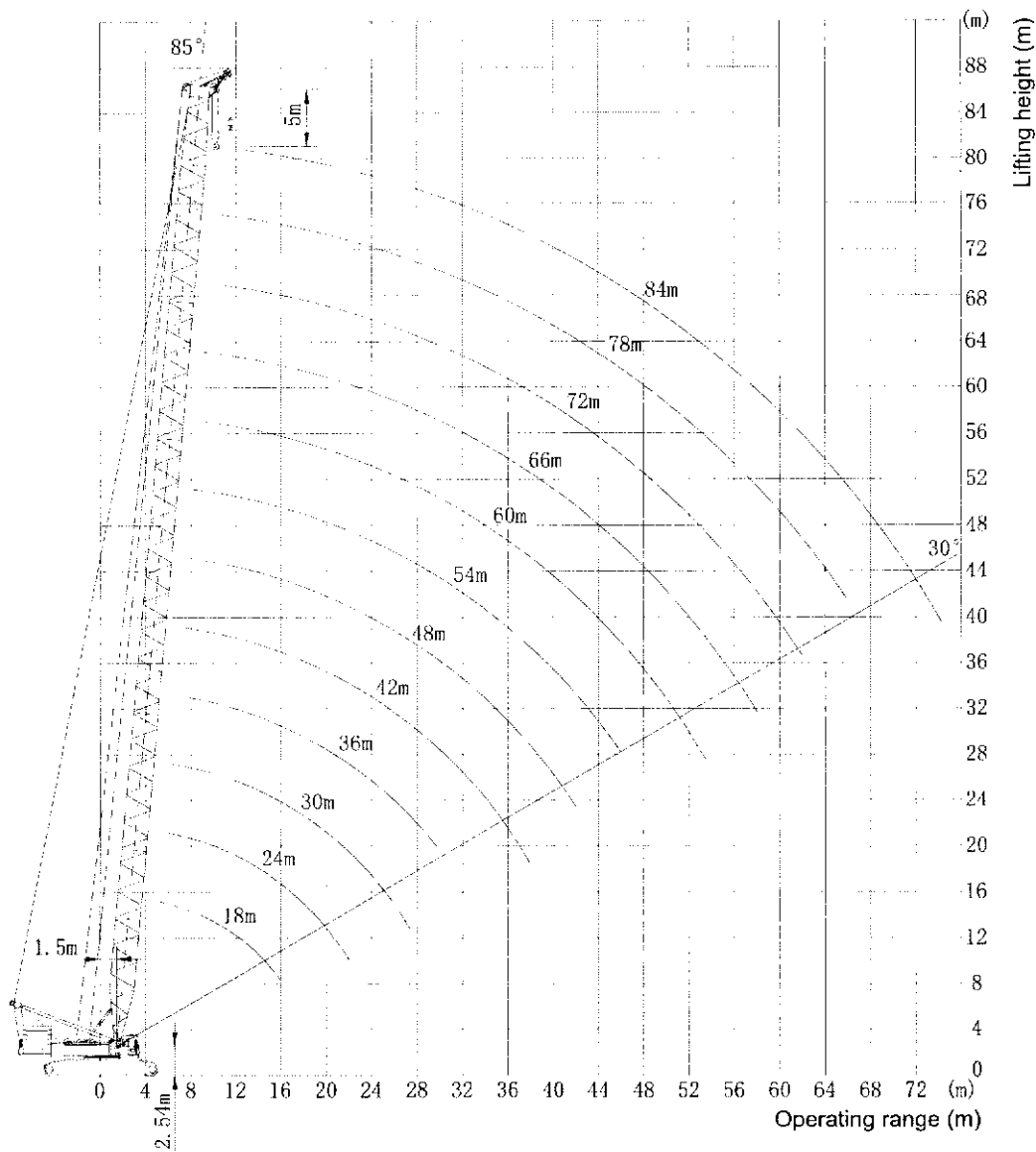
Boom length (m)	Base	Insert			Transition section	boom head
	11.2m	6m	12mA	12mB	6m	0.8m
18	1	—	—	—	1	1
24	1	1	—	—	1	1
30	1	—	—	1	1	1
	1	2	—	—	1	1
36	1	1	—	1	1	1
42	1	—	1	1	1	1
	1	2	—	1	1	1
48	1	1	1	1	1	1
54	1	—	2	1	1	1
	1	2	1	1	1	1
60	1	1	2	1	1	1
66	1	—	3	1	1	1
	1	2	2	1	1	1
72	1	1	3	1	1	1
78	1	—	4	1	1	1
	1	2	3	1	1	1
84	1	1	4	1	1	1





C 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

Load Chart of Boom Operating Condition													
Rear counterweight + central counterweight: 150t+40t													
Boom (m)													
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	t	m
5	320.0	-	-	-	-	-	-	-	-	-	-	-	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*	-	-	-	-	-	-	-	7
8	274.0	260.0	258.0*	254.0*	239.0*	216.0*	172.0*	-	-	-	-	-	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*	188.0*	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*	88.0	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	-	-	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	-	-	-	-	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	-	-	-	-	-	26.5*	26.0*	26.0	25.5	24.5	23.5	22.5	42
46	-	-	-	-	-	-	23.0*	22.5	22.0	21.0	20.0	19.0	46
50	-	-	-	-	-	-	-	20.0	19.1	18.1	17.1	16.1	50
54	-	-	-	-	-	-	-	17.6	16.6	15.6	14.6	13.6	54
58	-	-	-	-	-	-	-	-	14.5	13.5	12.5	11.5	58
62	-	-	-	-	-	-	-	-	-	11.6	10.7	9.7	62
66	-	-	-	-	-	-	-	-	-	-	9.1	8.1	66
70	-	-	-	-	-	-	-	-	-	-	-	6.7	70
74	-	-	-	-	-	-	-	-	-	-	-	5.4	74
75	-	-	-	-	-	-	-	-	-	-	-	5.1	75
Multiplying factor	28	26	25	24	21	18	14	11	9	8	6	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) 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.
- 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.



SCC3200 Crawler Crane Series

Load Charts 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)

Boom (m)

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	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	35.0	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	-	-	-	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	-	-	-	-	-	-	-	-	-	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.



SCC3200 Crawler Crane Series
Load Charts of Boom

C

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	t	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	-	-	-	-	-	-	-	8
9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	-	-	-	-	-	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	-	12
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	-	-	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	24
26	-	-	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	26
28	-	-	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	30
34	-	-	-	-	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	34
38	-	-	-	-	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	-	-	-	-	-	-	-	13.5	13.5	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	-	-	-	-	-	-	-	-	-	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	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 Boom Operating Condition											
Rear counterweight + central counterweight: 130t+20t											
Boom (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	-	-	-	-	-	-	-	-	5.5
6	278.0	277.0	276.0	-	-	-	-	-	-	-	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	-	9
10	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	-	-	-	-	-	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 ≤50m long, the permissible wind speed is ≤13.8m/s; when the boom is >50m long, the permissible wind speed is ≤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.



SCC3200 Crawler Crane Series
Load Charts of Boom

C

Load Charts of Boom

Rear counterweight + central counterweight:110t+0t								
Boom (m)								
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	-	-	-	-	-	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	-	-	-	-	-	10.8	10.4	50
54	-	-	-	-	-	9.1	8.6	54
58	-	-	-	-	-	-	7.2	58

- 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 Boom Operating Condition									
Rear counterweight + central counterweight: 90t+0t									
Boom (m)									
Radius	18	24	30	36	42	48	54	60	Radius
m	t	t	t	t	t	t	t	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

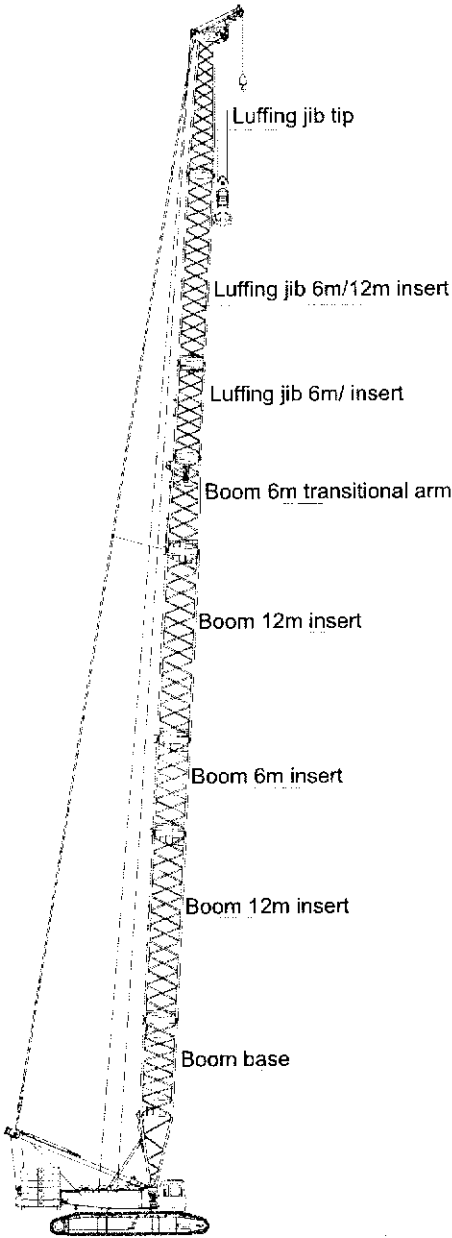
- 1) The actual lifting capacity must be obtained by deducting the weight of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.
- 2) The rated load indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does 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.



C

HJ Operating Condition of Mixed Boom Mixed Boom Combination

Arm length (m)	Boom base	Boom insert				Reducing arm		Jib insert		Jib tip
		11.2m	6m	12mA	12mB	6m	6m	6mB	12m	
44.2	1	—	—	—	1	1	1	—	—	1
50.2	1	—	—	—	1	1	1	1	—	1
56.2	1	—	—	—	1	1	1	—	1	1
62.2	1	1	—	—	1	1	1	—	1	1
68.2	1	—	1	1	1	1	1	—	1	1
	1	2	—	1	1	1	1	—	1	1
74.2	1	1	1	1	1	1	1	—	1	1
80.2	1	1	1	1	1	1	1	1	1	1
86.2	1	—	2	1	1	1	1	1	1	1
	1	2	1	1	1	1	1	1	1	1
92.2	1	—	2	1	1	1	1	—	2	1
	1	2	1	1	1	1	1	—	2	1
98.2	1	1	2	1	1	1	1	—	2	1
104.2	1	—	3	1	1	1	1	—	2	1
	1	2	2	1	1	1	1	—	2	1



C

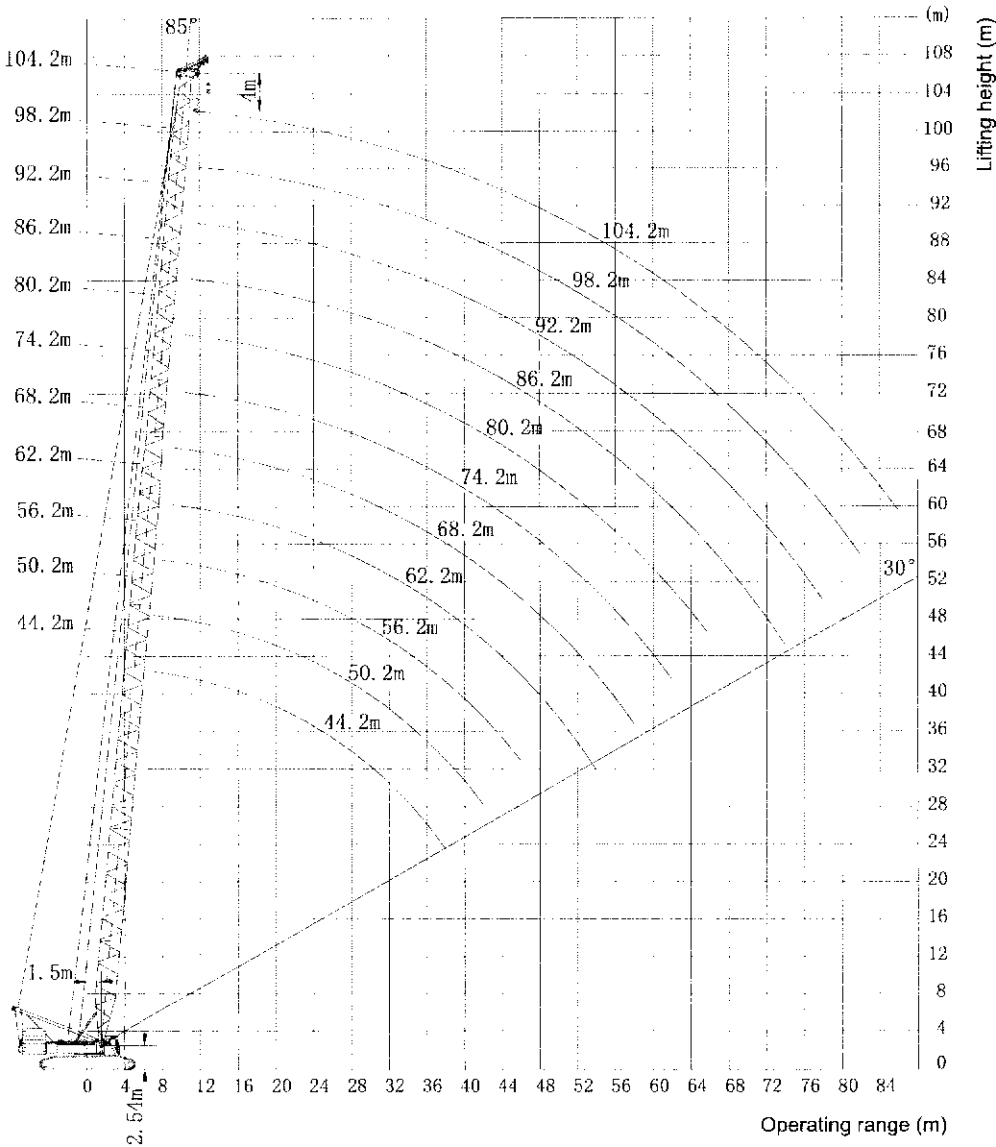


C

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

Load Chart of Mixed Boom Operating Condition												
Rear counterweight+ central counterweight: 150t+40t												
Boom												
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	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	-	-	-	-	-	-	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	-	-	-	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
58	-	-	-	-	17.1	16.1	16.0	15.9	15.8	14.5	13.6	58
62	-	-	-	-	-	14.0	13.8	13.7	13.6	12.7	11.8	62
66	-	-	-	-	-	-	12.5	12.3	12.0	11.1	10.2	66
70	-	-	-	-	-	-	-	10.9	10.6	9.7	8.8	70
74	-	-	-	-	-	-	-	9.7	9.4	8.4	7.6	74
78	-	-	-	-	-	-	-	-	8.3	7.3	6.4	78
82	-	-	-	-	-	-	-	-	-	6.3	5.4	82
86	-	-	-	-	-	-	-	-	-	-	3.5	86
Multiplying factor	10	10	10	8	7	7	5	4	4	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 >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

Load Chart of Mixed Boom Operating Condition										
Rear counterweight + central counterweight:130t+20t Boom										
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	-	-	-	-	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	-	-	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	-	-	-	-	-	-	9.9	9.3	8.9	66
70	-	-	-	-	-	-	-	8.0	7.7	70
74	-	-	-	-	-	-	-	6.9	6.6	74
78	-	-	-	-	-	-	-	-	5.7	78
Multiplying 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 ≤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 >86.2m, 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

C

Load Charts of Mixed Boom

Load Chart of Mixed Boom Operating Condition								
Rear counterweight + central counterweight: 110t+0t								
Boom								
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
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
38	-	22.0	21.1	20.8	20.1	19.5	19.4	38
42	-	19.1	18.3	17.8	17.3	16.5	16.4	42
46	-	-	15.9	15.4	14.9	14.0	13.9	46
50	-	-	-	13.5	12.8	11.9	11.8	50
54	-	-	-	11.9	11.0	10.1	10.0	54
58	-	-	-	-	9.6	8.6	8.5	58
62	-	-	-	-	-	7.5	7.3	62
66	-	-	-	-	-	-	6.5	66
Multiplying factor	10	10	10	8	7	7	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 length is >86.2m, 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

Load Chart of Mixed Boom Operating Condition

Rear counterweight+central counterweight: 90t+0t
Boom

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	-	-	-	-	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
Mutiplied factor	10	10	9	8	7	7	Mutiplied 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 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.



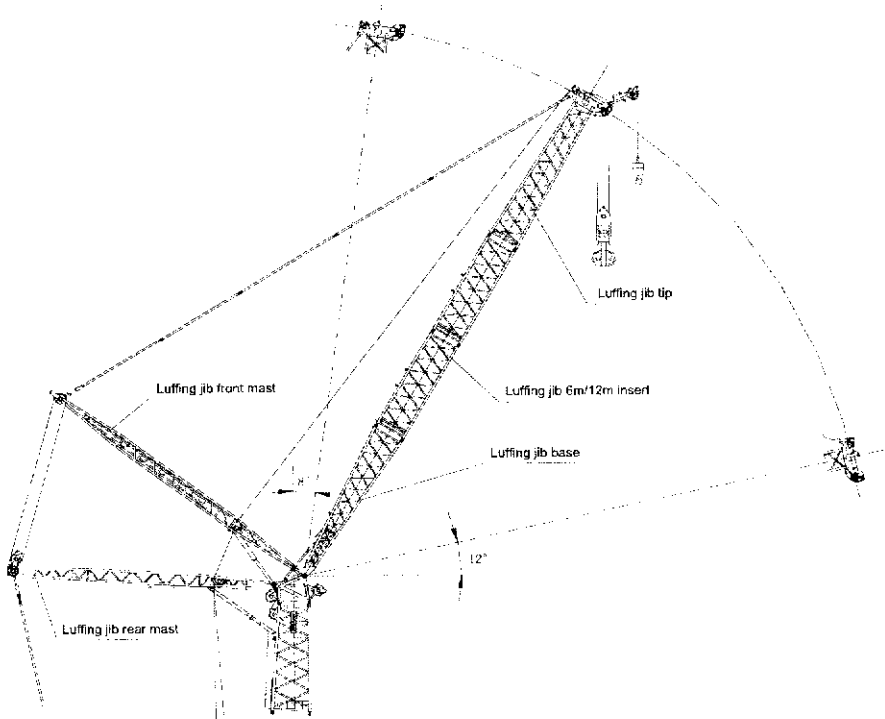
SCC3200 Crawler Crane Series
LJ Operating Condition of Luffing Jib

C

LJ Operating Condition of Luffing Jib
Boom + Luffing Jib Combination

Length of luffing jib (m)	Jib base 9m	Jib insert			Jib tip 9m
		6mA	6mB	12m	
24	1	1	—	—	1
30	1	1	1	—	1
36	1	1	—	1	1
42	1	1	2	—	1
48	1	1	1	1	1
54	1	1	—	2	1
60	1	1	2	1	1
66	1	1	1	2	1

Length of boom (m)	Base 11.2m	Insert			Transition section 6m	Connecting section 1.5m
		6m	12mA	12mB		
24.7	1	1	—	—	1	1
30.7	1	—	—	1	1	1
36.7	1	2	—	—	1	1
42.7	1	1	—	1	1	1
48.7	1	2	—	1	1	1
54.7	1	1	1	1	1	1
60.7	1	—	2	1	1	1
66.7	1	2	1	1	1	1



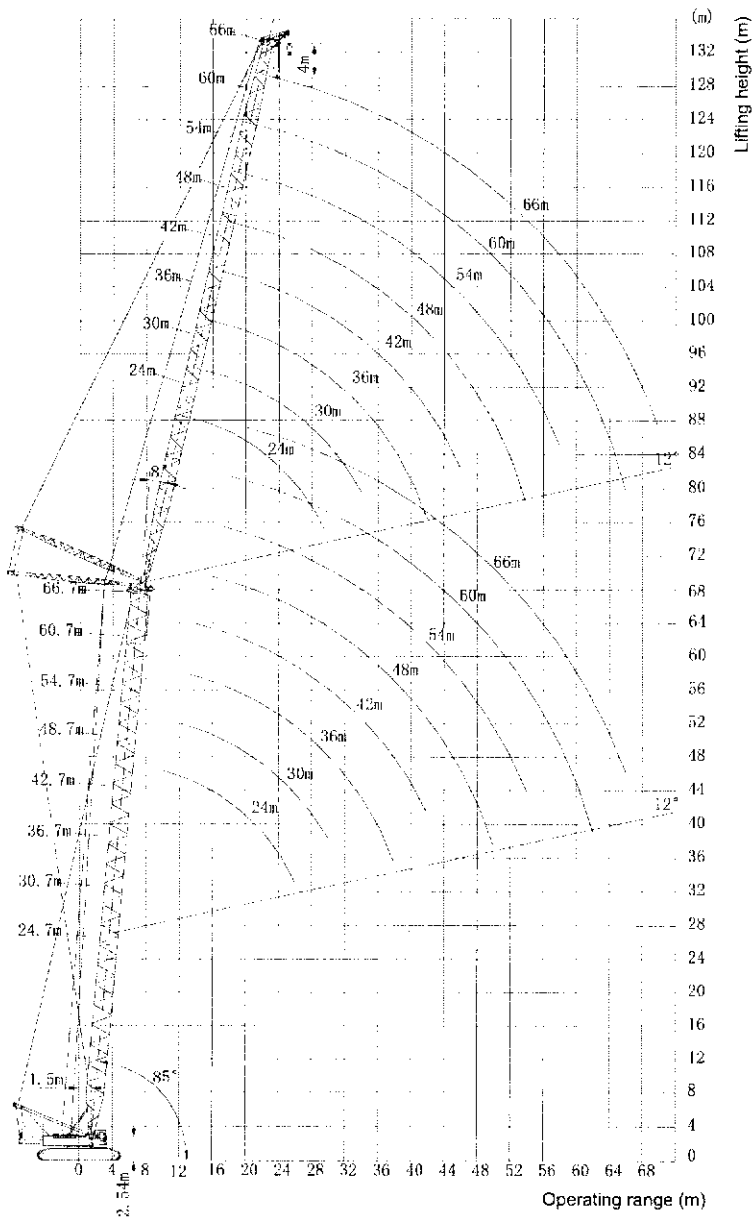


C

SCC3200 Crawler Crane Series

Operating Range Diagram of Luffing Jib

Operating Range Diagram of Luffing Jib



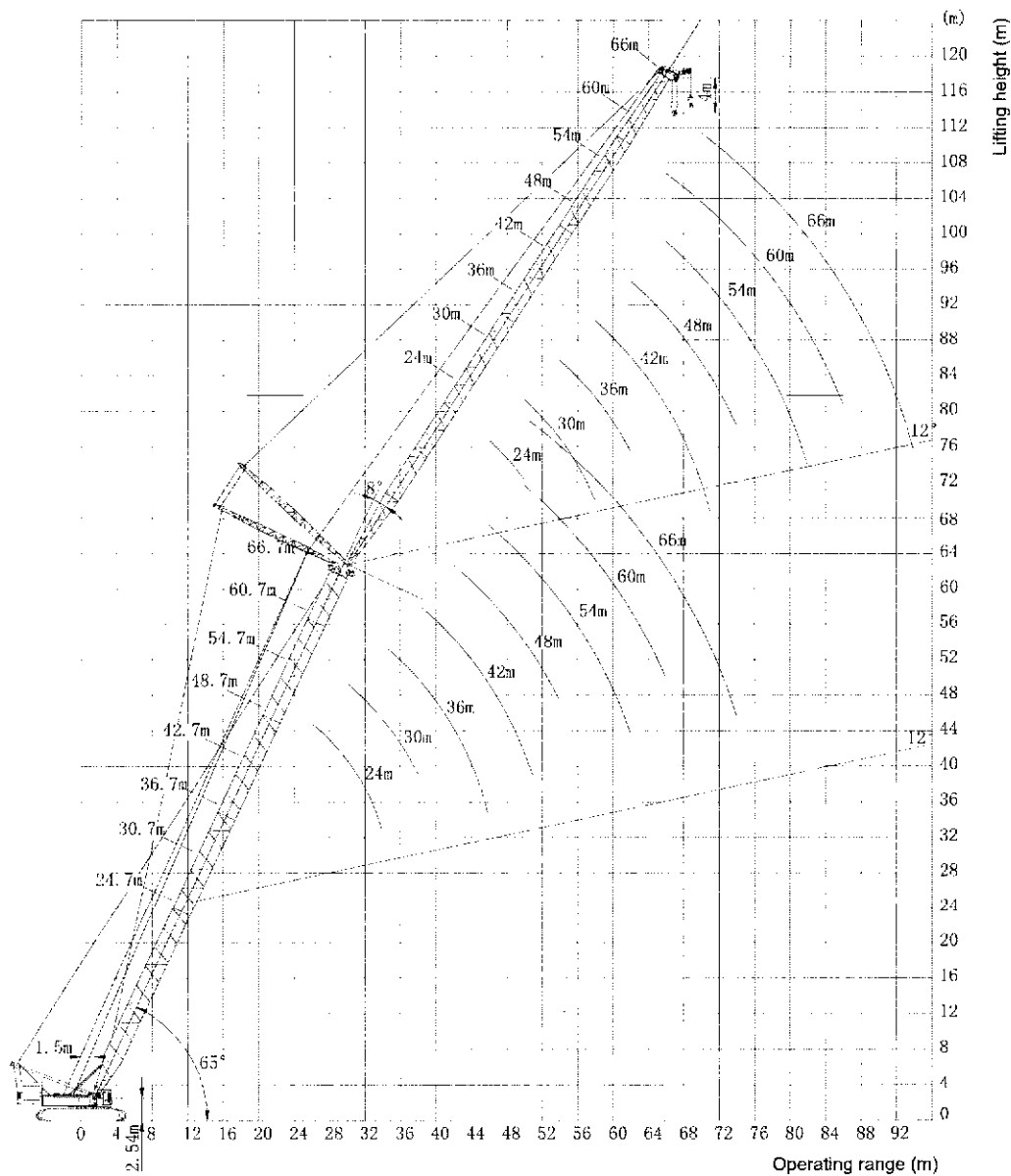
Operating range diagram of luffing jib (LJ) operating condition (boom's elevation angle 85°)



SCC3200 Crawler Crane Series
Operating Range Diagram of Luffing Jib

C

Operating Range Diagram of Luffing Jib



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



SCC3200 Crawler Crane Series
Load Charts of Luffing Jib

Load Charts of Luffing Jib

Load Chart of Luffing Jib Operating Condition													
Rear counterweight+central counterweight: 150t+40t Boom: 24.7m													
Fly jib													
Radius	85°	24m	65°	85°	30m	65°	85°	36m	65°	85°	42m	65°	Radius
m	t	t	t	t	t	t	t	t	t	t	t	t	m
10	140.0	-	-	-	-	-	-	-	-	-	-	-	10
12	139.0	-	-	137.0	-	-	-	-	-	-	-	-	12
13	134.0	-	-	131.0	-	-	107.0*	-	-	-	-	-	13
14	128.0	-	-	125.0	-	-	106.0	-	-	-	-	-	14
16	110.0	-	-	108.0	-	-	105.0	-	-	86.0	-	-	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	-	-	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	-	30
34	-	-	38.5	-	40.5	38.1	41.5	39.6	37.5	41.2	39.3	-	34
38	-	-	-	-	-	33.2	36.5	34.3	32.7	35.8	34.2	32.5	38
42	-	-	-	-	-	-	-	30.5	28.8	32.0	30.5	28.6	42
46	-	-	-	-	-	-	-	-	25.5	-	27.0	25.5	46
50	-	-	-	-	-	-	-	-	-	-	-	22.8	50
53	-	-	-	-	-	-	-	-	-	-	-	21.0	53
Multiplying factor	11		11		8		7		7		7		Multiplying factor
Radius	85°	48m	65°	85°	54m	65°	85°	60m	65°	85°	66m	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	-	-	26
28	52.0	-	-	51.5	-	-	42.2	-	-	34.1	-	-	28
30	48.0	46.0	-	47.7	-	-	41.1	-	-	33.2	-	-	30
34	40.7	39.0	-	40.5	39.0	-	38.7	-	-	31.3	-	-	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	-	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	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	-	-	-	-	-	-	-	-	-	-	-	11.2	74
Multiplying factor	5		4		4		4		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) The elevation angle of the boom at the place of * is 87°.



SCC3200 Crawler Crane Series
Load Charts of Luffing Jib

C

Load Charts of Luffing Jib

Load Chart of Luffing Jib Operating Condition													
Rear counterweight+central counterweight: 150t+40t Boom: 48.7m													
Luffing jib													
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
12	85.0	-	-	-	-	-	-	-	-	-	-	-	12
13	85.0	-	-	71.0	-	-	-	-	-	-	-	-	13
14	85.0	-	-	71.0	-	-	59.0	-	-	-	-	-	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	-	-	20
22	70.5	-	-	69.0	-	-	59.0	-	-	50.0	-	-	22
24	63.0	-	-	63.0	-	-	59.0	-	-	50.0	-	-	24
26	57.0	51.5	-	56.5	-	-	56.5	-	-	50.0	-	-	26
28	51.5	47.0	-	51.5	-	-	51.5	-	-	49.1	-	-	28
30	-	43.1	-	47.5	42.8	-	47.1	-	-	47.1	-	-	30
34	-	36.7	-	40.5	36.5	-	40.2	-	-	40.1	35.8	-	34
38	-	31.8	28.5	-	31.6	-	34.8	36.0	-	34.7	31.0	-	38
42	-	-	25.0	-	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	-	-	-	-	-	-	-	-	17.1	-	19.5	16.7	54
58	-	-	-	-	-	-	-	-	-	-	-	15.1	58
62	-	-	-	-	-	-	-	-	-	-	-	13.7	62
63	-	-	-	-	-	-	-	-	-	-	-	13.4	63
Multiplying factor	7			5			5			4			Multiplying factor
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
17	42.2	-	-	35.7	-	-	-	-	-	-	-	-	17
18	42.2	-	-	35.7	-	-	30.1	-	-	-	-	-	18
20	42.2	-	-	35.7	-	-	30.1	-	-	25.6	-	-	20
21	42.2	-	-	35.7	-	-	30.1	-	-	25.6	-	-	21
22	42.2	-	-	35.7	-	-	30.1	-	-	25.6	-	-	22
24	42.2	-	-	35.7	-	-	30.1	-	-	25.6	-	-	24
26	42.2	-	-	35.7	-	-	30.1	-	-	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	-	19.8	17.6	-	54
58	-	17.0	14.4	18.5	16.8	13.6	18.5	16.1	12.9	18.5	15.9	-	58
62	-	-	12.8	-	15.1	12.3	17.1	14.5	11.6	16.8	14.3	10.8	62
66	-	-	11.8	-	13.8	11.1	-	13.1	10.5	15.3	12.8	9.7	66
70	-	-	-	-	-	10.1	-	12.0	9.5	12.5	11.5	8.7	70
74	-	-	-	-	-	9.2	-	-	8.6	-	10.5	7.8	74
78	-	-	-	-	-	-	-	-	7.6	-	9.5	7.0	78
82	-	-	-	-	-	-	-	-	-	-	-	6.3	82
86	-	-	-	-	-	-	-	-	-	-	-	5.6	86
Multiplying factor	3			3			3			2			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) The elevation angle of the boom at the place of * is 87°.



C SCC3200 Crawler Crane Series
Load Charts of Luffing Jib

Load Charts of Luffing Jib

Load Chart of Luffing Jib Operating Condition														
Rear counterweight + central counterweight: 150t+40t Boom:60.7m														
Luffing jib														
Radius	85°	24	65°	85°	30	65°	85°	36	65°	85°	42	65°	Radius	
m	t	75°	t	t	75°	t	t	75°	t	t	75°	t	m	
12	61.5*	-	-	-	-	-	-	-	-	-	-	-	12	
14	61.5*	-	-	52.5*	-	-	-	-	-	-	-	-	14	
15	61.5	-	-	52.5*	-	-	44.7*	-	-	-	-	-	15	
16	61.5	-	-	52.5*	-	-	44.7*	-	-	38.2*	-	-	16	
18	61.5	-	-	52.5	-	-	44.7	-	-	38.2*	-	-	18	
20	61.5	-	-	52.5	-	-	44.7	-	-	38.2	-	-	20	
22	59.0	-	-	52.5	-	-	44.7	-	-	38.2	-	-	22	
24	57.0	-	-	50.5	-	-	44.7	-	-	38.2	-	-	24	
26	54.5	-	-	49.0	-	-	44.0	-	-	38.2	-	-	26	
28	50.5	-	-	47.1	-	-	42.3	-	-	38.0	-	-	28	
30	46.6	40.6	-	45.3	-	-	40.7	-	-	36.7	-	-	30	
34	-	34.5	-	39.7	34.3	-	37.8	33.8	-	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	-	-	16.6	-	20.3	15.9	-	20.1	-	50	
54	-	-	-	-	-	15.0	-	-	14.3	-	18.1	13.4	54	
58	-	-	-	-	-	-	-	-	12.9	-	16.3	12.1	58	
62	-	-	-	-	-	-	-	-	11.7	-	-	10.9	62	
66	-	-	-	-	-	-	-	-	-	-	-	9.9	66	
68	-	-	-	-	-	-	-	-	-	-	-	9.4	68	
Multiplying factor		5			4			4			3		Multiplying factor	
Radius	85°	48	75°	65°	85°	54	75°	60	65°	85°	66	75°	65°	Radius
m	t	t	t	t	t	t	t	t	t	t	t	t	t	m
18	32.7*	-	-	-	-	-	-	-	-	-	-	-	-	18
19	32.7*	-	-	-	27.8*	-	-	-	-	-	-	-	-	19
20	32.7*	-	-	-	27.8*	-	-	23.8*	-	-	-	-	-	20
22	32.7	-	-	-	27.8*	-	-	23.8*	-	20.3*	-	-	-	22
23	32.7	-	-	-	27.8	-	-	23.8*	-	20.3*	-	-	-	23
24	32.7	-	-	-	27.8	-	-	23.8	-	20.3*	-	-	-	24
26	32.7	-	-	-	27.8	-	-	23.8	-	20.3	-	-	-	26
28	32.7	-	-	-	27.8	-	-	23.8	-	20.3	-	-	-	28
30	32.7	-	-	-	27.8	-	-	23.8	-	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	-	15.8	11.3	-	18.3	15.3	-	16.3	14.7	14.5	13.9	-	-	58
62	-	14.3	10.2	-	-	13.8	9.3	15.3	13.1	13.5	12.5	-	-	62
66	-	-	9.2	-	-	12.5	8.4	-	11.9	12.6	11.3	-	-	66
70	-	-	8.3	-	-	11.4	7.5	-	10.6	6.9	11.6	10.2	6.0	70
74	-	-	7.5	-	-	-	6.8	-	9.6	6.1	-	9.3	5.3	74
78	-	-	-	-	-	-	6.1	-	-	5.4	-	8.4	4.7	78
82	-	-	-	-	-	-	-	-	-	4.8	-	-	4.1	82
86	-	-	-	-	-	-	-	-	-	-	-	-	3.5	86
90	-	-	-	-	-	-	-	-	-	-	-	-	3.0	90
Multiplying factor		3			2			2			2		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) 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.



SCC3200 Crawler Crane Series
Load Charts of Mixed Boom



Load Charts of Mixed Boom

Load Chart of Luffing Jib Operating Condition													
Rear counterweight + central counterweight:150t+40t Boom:66.7m													
Luffing jib													
Radius	85°	24	65°	85°	30	65°	85°	36	65°	85°	42	65°	Radius
m	t	75°	t	t	75°	t	t	75°	t	t	75°	t	m
12	52.0	-	-	-	-	-	-	-	-	-	-	-	12
14	52.0	-	-	44.7	-	-	-	-	-	-	-	-	14
15	52.0	-	-	44.7	-	-	38.1	-	-	-	-	-	15
16	52.0	-	-	44.7	-	-	38.1	-	-	-	-	-	16
17	52.0	-	-	44.7	-	-	38.1	-	-	32.7	-	-	17
18	52.0	-	-	44.7	-	-	38.1	-	-	32.7	-	-	18
20	52.0	-	-	44.7	-	-	38.1	-	-	32.7	-	-	20
22	50.0	-	-	44.7	-	-	38.1	-	-	32.7	-	-	22
24	48.2	-	-	43.5	-	-	38.1	-	-	32.7	-	-	24
26	46.2	-	-	41.8	-	-	37.6	-	-	32.7	-	-	26
28	44.7	-	-	40.2	-	-	36.2	-	-	32.7	-	-	28
30	43.0	-	-	38.6	-	-	34.7	-	-	31.5	-	-	30
34	-	33.5	-	36.0	32.8	-	32.0	-	-	29.1	-	-	34
38	-	28.8	-	-	28.8	-	30.0	28.0	-	26.8	-	-	38
42	-	25.3	-	-	25.1	-	28.0	24.8	-	25.1	23.9	-	42
46	-	-	17.5	-	22.3	-	-	21.8	-	23.5	21.3	-	46
50	-	-	15.7	-	-	14.7	-	19.6	-	-	19.2	-	50
54	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	8.5	66
70	-	-	-	-	-	-	-	-	-	-	-	7.6	70
71	-	-	-	-	-	-	-	-	-	-	-	7.4	71
Multipliyng factor	4		4		3		3		3		3		Multipliyng factor
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
18	27.8	-	-	24.1	-	-	-	-	-	-	-	-	18
19	27.8	-	-	24.1	-	-	-	-	-	-	-	-	19
20	27.8	-	-	24.1	-	-	-	-	-	-	-	-	20
21	27.8	-	-	24.1	-	-	20.6	-	-	-	-	-	21
22	27.8	-	-	24.1	-	-	20.6	-	-	17.6	-	-	22
23	27.8	-	-	24.1	-	-	20.6	-	-	17.6	-	-	23
24	27.8	-	-	24.1	-	-	20.6	-	-	17.6	-	-	24
26	27.8	-	-	24.1	-	-	20.6	-	-	17.6	-	-	26
28	27.8	-	-	24.1	-	-	20.6	-	-	17.6	-	-	28
30	27.8	-	-	24.1	-	-	20.5	-	-	17.6	-	-	30
34	26.0	-	-	23.3	-	-	19.6	-	-	17.6	-	-	34
38	24.0	-	-	21.6	-	-	18.6	-	-	16.8	-	-	38
42	22.1	23.1	-	20.1	-	-	17.5	-	-	15.8	-	-	42
46	20.8	20.6	-	18.5	18.1	-	16.3	16.1	-	14.6	-	-	46
50	19.5	18.5	-	17.5	17.1	-	15.3	15.1	-	13.5	13.1	-	50
54	18.1	16.7	-	16.3	15.8	-	14.3	14.1	-	12.5	12.1	-	54
58	-	15.0	-	15.3	14.3	-	13.4	13.1	-	11.6	11.1	-	58
62	-	13.5	8.7	-	13.0	-	12.5	12.1	-	10.9	10.1	-	62
66	-	12.3	7.8	-	11.8	6.9	11.5	11.1	6.2	10.0	9.3	-	66
70	-	-	7.0	-	10.6	6.2	-	10.0	5.5	9.3	9.0	4.6	70
74	-	-	6.3	-	-	5.1	-	9.0	4.8	-	8.4	4.0	74
78	-	-	-	-	-	4.9	-	-	4.2	-	7.6	3.4	78
82	-	-	-	-	-	4.3	-	-	3.7	-	6.9	2.9	82
86	-	-	-	-	-	-	-	-	3.2	-	-	-	86
Multipliyng factor	2		2		2		2		2		2		Multipliyng 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) 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.

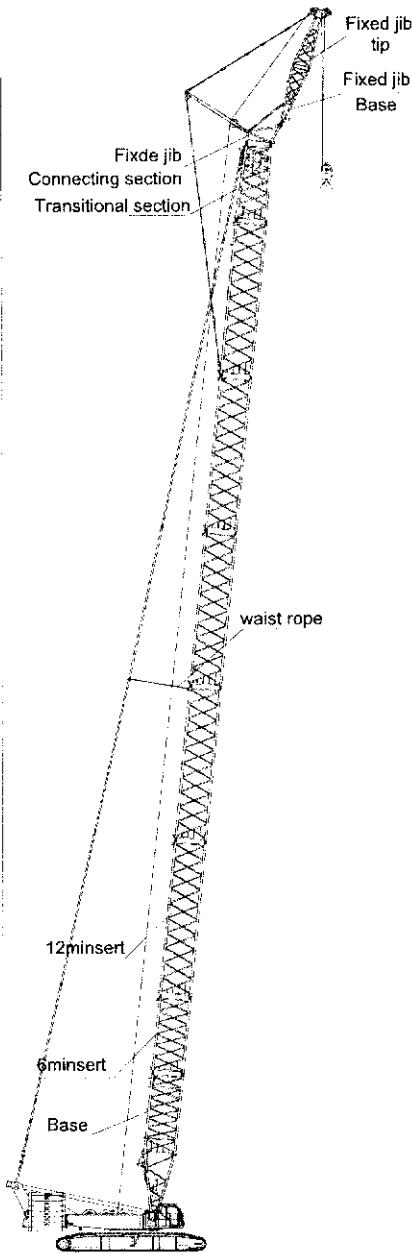


C

SCC3200 Crawler Crane Series
FJ Operating Condition of Fixed Jib

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

Boom Length (m)	Base		Insert		Transition section	Connecting section	Fixed Jib	
	11.2m	6m	12mA	12mB	6m	1.8m	Base 4.5m	Tip 4.5m
37	1	1	—	1	1	1		
43	1	—	1	1	1	1		
	1	2	—	1	1	1		
49	1	1	1	1	1	1		
55	1	—	2	1	1	1		
	1	2	1	1	1	1		
61	1	1	2	1	1	1	1	1
67	1	—	3	1	1	1		
	1	2	2	1	1	1		
73	1	1	3	1	1	1		
79	1	—	4	1	1	1		
	1	2	3	1	1	1		
85	1	1	4	1	1	1		

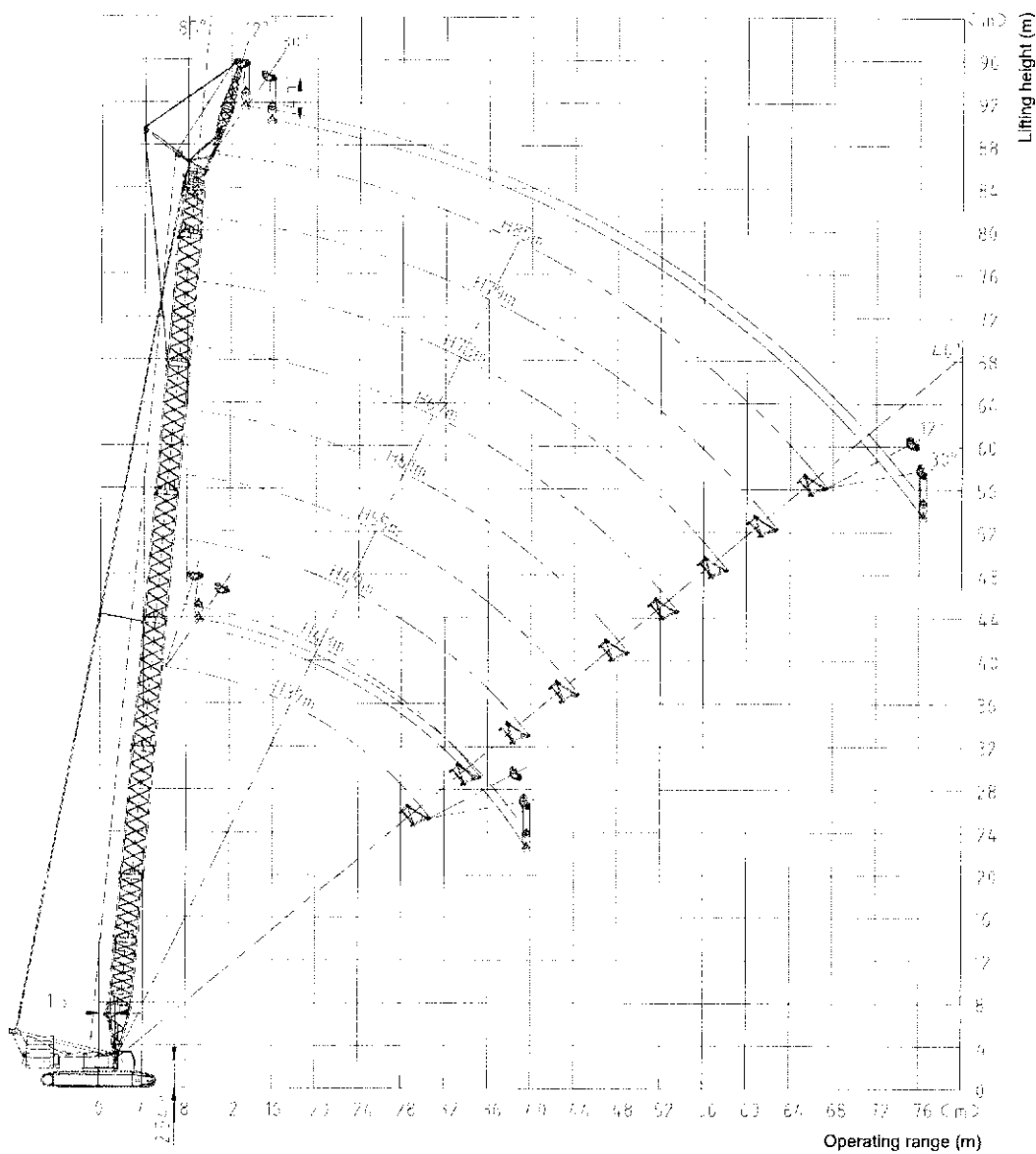




SCC3200 Crawler Crane Series
Operating Range Diagram of Fixed Jib Operating Condition

C

Operating Range Diagram of Fixed Jib Operating Condition



Operating range diagram of fixed jib (FJ) operating condition

C



C

SCC3200 Crawler Crane Series

Load Charts of Fixed Jib

■

Load Charts of Fixed Jib

Load Chart of Fixed Jib (FJ[*]+9m, 12.5 degree) Operating Condition										
Rear counterweight+central counterweight:150t+40t										
Radius (m)	37m	43m	49m	55m	61m	67m	73m	79m	85m	Radius (m)
10	75.0	74.5	-	-	-	-	-	-	-	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	-	-	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	-	-	-	-	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	-	-	-	-	-	-	8.8	8.4	7.6	66
68	-	-	-	-	-	-	8.0	7.6	6.8	68
70	-	-	-	-	-	-	-	7.0	6.2	70
72	-	-	-	-	-	-	-	-	5.6	72
74	-	-	-	-	-	-	-	-	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

Load Chart of Fixed Jib (FJ[*]+9m,30.5°) Operating Condition										
Rear counterweight+central counterweight:150t+40t										
Boom Radius (m)	37m t	43m t	49m t	55m t	61m t	67m t	73m t	79m t	85m t	Boom 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	-	-	-	-	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	37.0	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	-	-	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	-	-	-	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	-	-	-	-	13.5	13.0	12.4	12.1	11.4	52
54	-	-	-	-	12.6	12.0	11.4	11.2	10.5	54
56	-	-	-	-	-	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	-	-	-	-	-	-	7.8	7.6	6.9	64
66	-	-	-	-	-	-	-	7.0	6.3	66
68	-	-	-	-	-	-	-	6.4	5.6	68
70	-	-	-	-	-	-	-	-	5.0	70
Multiplying factor	5	4	4	4	4	4	4	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 is ≥60m, a wedged pad needs to be added in front of the crawler belt.



Shanghai Sany Science&Technology Co.,Ltd.

No.319, Chuanda Rd, Chuansha Economic Park, Pudong District, Shanghai 201200.P.R.China

Tel:0086-021-58595081(Sales) 0086-021-58593139(Service)

Fax:0086-021-58595081

Website: www.sanygroup.com

Materials and specifications are subject to change without further notice in accordance with constant technical innovations.
Photos may include additional equipment.

Copyright ©2010 SANY Group Co.,Ltd. All rights reserved.