List of Manuals

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XCT160H
Truck Crane
Physical Information and Rated Load Chart Manual

XCT160H Truck Crane

Physical Information and Rated Load Charts Manual

First edition, August 2022

VIN	
Engine number	
Date	Year Month

The manual is part of the crane. It must be kept with the crane!

Please read the manual carefully before operating the crane.

This equipment is designed and manufactured in accordance with

Q/320301JAF463-2019XZJ5556JQZ130 Truck cranes,

GB/T 6067.1-2010 Safety rules for lifting appliances-Part 1: General,

GB 7258-2017 Safety specifications for power-driven vehicles operating on roads,

GB/T 6068-2008 Test code for truck crane and mobile crane, and

JB/T 9738-2015 Truck cranes

Note

Use genuine parts only. If non-genuine parts are used, XCMG will not be responsible for any damage to the machine or lost operation time.

Preface

Sincerely thank you for trusting and using XCMG-branded Truck Crane made by Xuzhou Heavy Machinery Co., Ltd.

This manual applies to XCT160H Truck Cranes.

The main content of this manual includes the specifications, technical parameters and rated load charts of XCT160H Truck Crane (hereinafter called crane).

Any lifting operation involves risk, in order to ensure safety while utilizing the performance of this crane, pay special attention to the contents marked with **“Danger”, “Warning”, and “Caution”.**

The manual along with other supplied technical documents are part of the crane. Please keep them carefully in the service life of the crane.

Due to product improvements or modifications, there may be differences between this manual and the crane. XCMG reserves the right to modify the manual or the crane without notice of improvement. The illustrations used in this manual are intended as representative reference views only. Thus, information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement may be changed at any time without notice.

Symbols and their meanings are as follows:

This safety alert symbol means ATTENTION! Become alert-your safety is involved! Obey all safety messages that follow this symbol to avoid possible death or injury.

——Identifies hazards that will result in death or serious injury if the message is ignored.

——Identifies hazards that may result in death or serious injury if the message is ignored.

——Identifies hazards that could result in minor or moderate injury if the message is ignored.

——It indicates a dangerous situation that, if not avoided, could result in damage to the equipment, personal property and/or the environment or decrease in crane's performance.


or

——It means the operation does not comply with operating practices, which is prohibited or is likely to cause casualty accident.

—— "Notice" is used to supply indication or additional explanation for individual items.

Contents

Chapter 1 General introduction

1-1 Terminology

The figures in this section are for reference only.

1. Lifting capacity (Q)

Lifting capacity is the mass that may be lifted for a given configuration of the crane as defined by the load charts. Lifting capacity means the permissible maximum lifting load that the crane is designed to lift for a given operating condition. The weight of the slings, the hook block and the wire rope between the boom head and the hook is part of the load. See Figure 1-1.

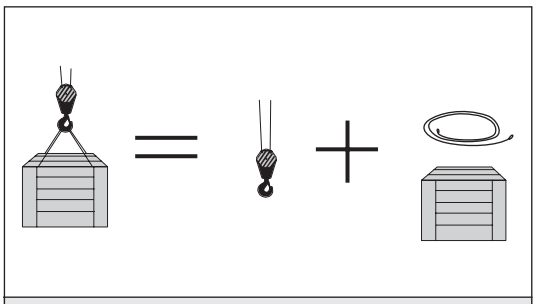


Figure 1-1

2. Radius (R)

Radius means the horizontal distance from the center line of rotation to a vertical line through the center of gravity of the hook (without load) with the crane set up on a firm, level ground. See Figure 1-2.

3. Lifting height (H)

Lifting height is the vertical distance from the surface upon which the crane is supported to the height of the hook. See Figure 1-2.

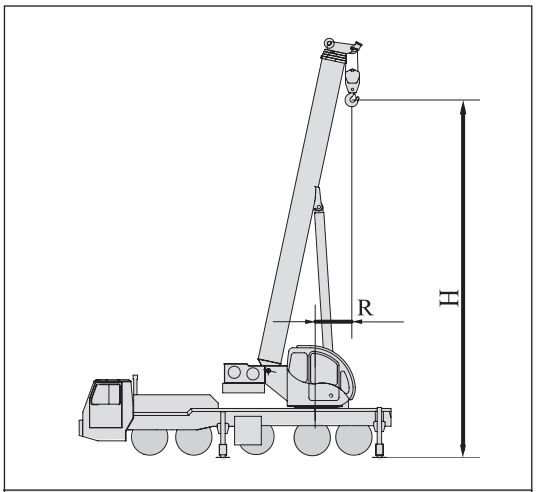


Figure 1-2

4. Load moment (M)

Load moment is the result of the working radius R of the crane multiplied by the lifting load Q under the radius.

5. Boom length (L) and boom angle (α)

Boom length is the distance from the rear pivot of the boom to the center line of the pulley on the boom head.

Boom angle is the angle of the center line of the boom against the horizontal. See Figure 1-3.

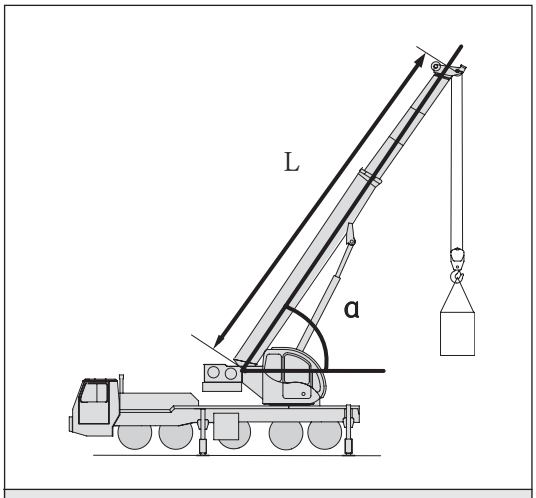


Figure 1-3

6. Jib length (ll) and jib offset angle (γ)

Jib length is the distance from the rear pivot of the jib connecting bracket to the center line of the pulley on the jib head.

Jib offset angle is the angle of the center line of the jib against the center line of the boom. See Figure 1-4.

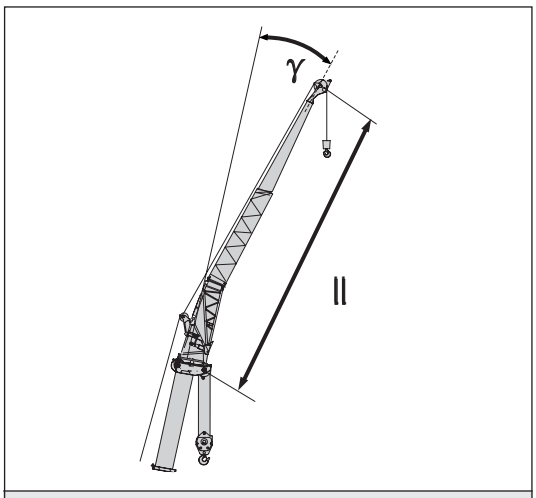


Figure 1-4

7. Outrigger span

Outrigger span is the distance between two outrigger floats, such as transverse span b and longitudinal span a shown in the figure followed.

Transverse span b: the distance between outrigger vertical axes measured by the lines vertical to the longitudinal moving direction of the crane.

Longitudinal span a: the distance between outrigger vertical axes measured by the lines parallel to the longitudinal moving direction of the crane. See Figure 1-5.

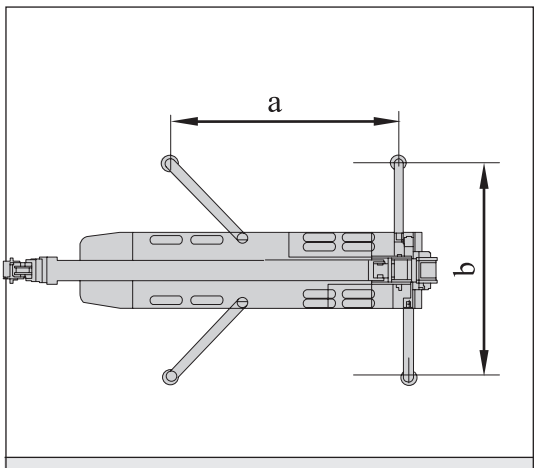


Figure 1-5

8. Working area

Four areas are created by the connecting lines between the slewing center and four supporting points: one over the rear, two over the side and one over the front working areas. See Figure 1-6.

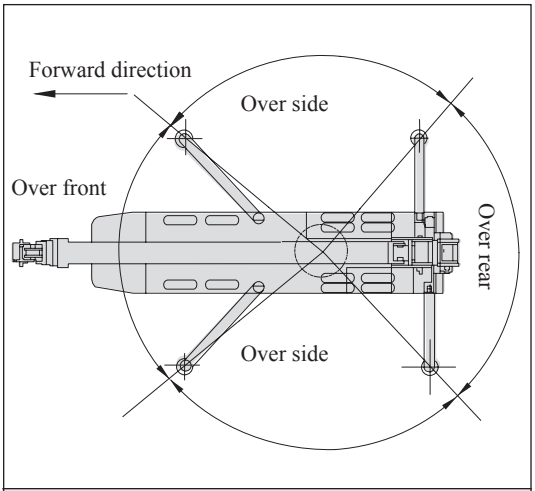


Figure 1-6

Front working area is an area over the front of the crane in which the boom may work. The boom capacity in this area is specified in Rated Load Charts. When the load to be lifted is very heavy, do not use the boom over the front working area, because in this case the stability of the entire crane is not good.

Rear working area is an area over the rear of the crane in which the boom may work. The boom capacity in this area is specified in Rated Load Charts.

Side working area is an area over the side of the crane in which the boom may work.

9. Stability area and strength area

In the stability area, the lifting capacities mainly are limited by the stability of the crane.

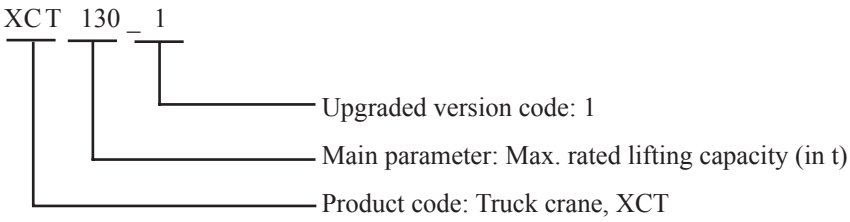
In the strength area, the lifting capacities mainly are limited by the structural member strength of the crane.

In the load charts, the lifting loads above the bold line are limited by the structural member strength of the crane and those below the bold line depend on the stability of the crane.

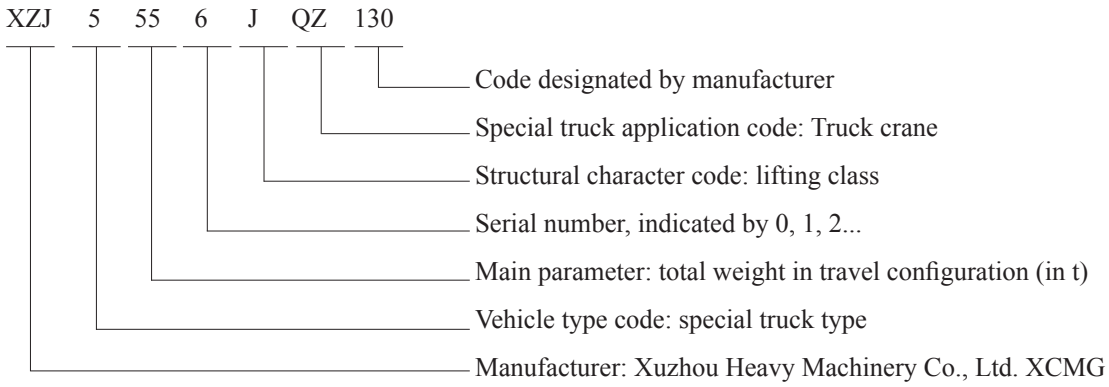
1-2 Crane model

There are product model and declared crane model for XCMG cranes.

1. Product model is shown in the technical files such as operation and maintenance manuals and marked on the crane nameplate. The product model of the crane is as shown below:



2. The declared crane model is marked on the crane nameplate and chassis nameplate. It includes:



1-3 Main applications and features

1-3-1 Main applications

It is mainly used for lifting operation and installation projects.

It is especially suitable for large-scale projects and complex working environments such as ports, docks and bridges.

1-3-2 Operating conditions

WARNING

● Prior to lifting operation, the operator should make a comprehensive evaluation on the site environment, ground and supporting facilities. Always operate the crane strictly according to the operating level and specifications specified by XCMG. Otherwise, the operator should bear the responsibility for the resulted accident.

● Always make sure the ground and supporting facilities are safe and reliable when assembling or disassembling the crane or when the crane is in service or out of service.

1. Job site:

During crane operation, the ground should be firm and there should be no risk of sinking. The permissible ground pressure should not be less than the max. ground pressure of any outrigger float (Max. ground pressure=max. outrigger pressure/single outrigger float area, kg/m^2).

2. Crane levelness:

The tilt of the slewing ring plane is not more than 1% (0.57°) at any direction.

3. The environmental temperature should be between -30℃ and 45℃.

4. The altitude should not exceed 3000 m.

5. Job site electromagnetic field: the interfering frequency should be between 30 Mhz~1 Ghz, and field intensity is less than 10 V/m.

6. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s)

1) The boom may be operated, when the wind speed:

is or less than 14.1 m/s for the boom of 20 m or less;

is or less than 12.8 m/s for the boom of 30 m or less;

is or less than 11.1 m/s for the boom of 60 m or less;

is or less than 9 m/s for the boom of more than 60 m;

2) Jib may be operated, when the wind speed:

is or less than 9 m/s.

1-4 Composition of the crane

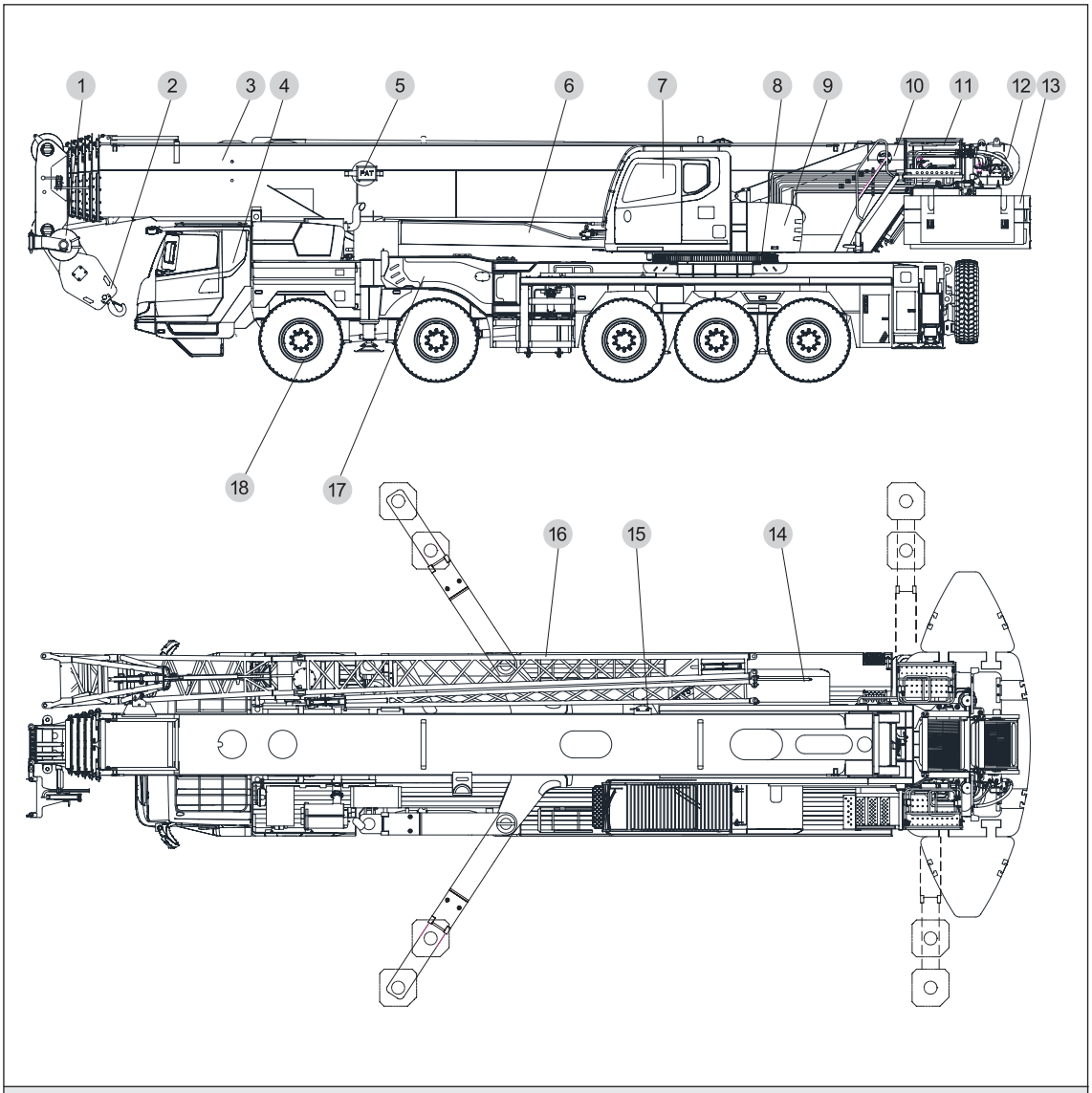


Figure 1-7 Main parts of XCT160H Truck crane

No.	Name	No.	Name	No.	Name
1	Single top	2	Hook block	3	Boom
4	Driver's cab	5	Electrical system	6	Luffing cylinder
7	Operator’ s cab	8	Slewing ring	9	Covering
10	Turntable	11	Main winch	12	Auxiliary winch
13	Counterweight	14	Air conditioning device	15	Centralized lubrication system
16	Jib	17	Outrigger	18	Tire

XCT160H Truck crane chassis mainly consists of nine systems, such as the power system, drive system, traveling system, driving control system, driver's cab & coverings, hydraulic system, air conditioning system, electrical system and auxiliary system.

Table 1-1 Chassis composition

Name	Explanation
Power system	The power system includes engine, cooling system, air filter and muffler, etc.
Drive system	The drive system consists of clutch, transmission, transfer box and drive shaft, etc.
Traveling system	The traveling system consists of suspension system, axles and tires, etc.
Driving control system	It includes steering system, clutch operating system, transmission shift gear system and braking system, etc.
Driver's cab & coverings	The driver's cab & coverings mainly consist of cab, walking surface & fenders, coverings and engine hood, etc.
Hydraulic system	The hydraulic system mainly consists of hydraulic pumps, hydraulic valves, oil cylinders and piping, etc.
Air conditioning system	The air conditioning system mainly consists of heating system and refrigerating system.
Electrical system	The electrical system mainly consists of power source, lighting system and control circuit, etc.
Auxiliary system	The auxiliary system mainly consists of boom rest, chassis nameplate, supplied tools, etc.

XCT160H superstructure mainly consists of five parts, such as the working devices, hydraulic system, electrical system, safety devices and operator's cab & coverings.

Table 1-2 Superstructure composition

Name	Explanation
Working devices	The working devices consist of boom, jib, boom telescoping system, elevating system, slewing system, slewing ring, main winch system, auxiliary winch system, main hook, auxiliary hook, counterweight and wire rope, etc.
Hydraulic system	The hydraulic system consists of pumps, motors, superstructure multi-way valve, change valves, accumulators and hydraulic piping, etc.
Electrical system	Electrical system consists of controller, LMI, CANbus lever, instrument panel, wireless counterweight erection remote controller, sensors, detecting switch and other control components, as well as the wiring and other parts connecting the electrical components in each mechanism.
Safety devices	The safety devices consist of anti-two block, lowering limiter, LMI, turntable lock, balance valve, hydraulic valve and level gauge, etc.
Operator’s cab & coverings	The operator’s cab & coverings consist of a cab and coverings.

1-4-1 Main parts of chassis

1. Frame

Designed and manufactured by XCMG, it is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.

2. Outriggers

Four outriggers; front two-stage outrigger beams are swung, and rear outrigger beams are extended. Outrigger beams and jacks are hydraulically controlled. There is an outrigger control station located at each side of the chassis, and there is a level gauge, an illuminator and speed buttons on each control station. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder.

Float dimension: 480 mm×615 mm

Reaction force of outrigger at max. lifting load: 960 kN.

3. Engine

MC13.48-50, in-line, 6-cylinder, water cooled, electric control diesel engine, made by SINOTRUK MAN, with rated power of 356 kW/1900 rpm and max. torque of 2300 Nm/1050-1400 rpm, compliant to China V emission standard. Fuel tank capacity: approx. 520 L.

WP12.460E62, in-line, 6-cylinder, four-stroke, turbocharged intercooler, water cooled, diesel engine, compliant to China VI emission standard.

4. Transmission

SINOTRUK automatic transmission, 12-forward speed and 1-reverse speed.

FC automatic transmission, 6-forward speed and 1-reverse speed.

5. Axles

High strength axles, made by a famous manufacturer. 1st, 2nd, 4th and 5th axles are driven and steered.

6. Suspensions

Leaf spring balanced suspensions are adopted for front axle, and rubber suspensions are adopted for rear axle, increasing the bounce amount of axles, leading to improved pass ability and optimized constraint of axles.

7. Tires

10 tires and 1 spare tire, each axle is equipped with single tire, manufactured by Double Coin.

Tire specifications: 385/95R25 (14.00R25).

8. Braking system

Service brake: double-circuit air pressure brake, acting on all wheels.

Parking brake: air-release brake, acting on wheels of axles 2~5.

Auxiliary brake: engine exhaust brake, engine retarder brake

9. Steering

Four-axle steering; axles 1 and 2 are mechanically steered + hydraulic power assistance, axles 4 and 5 are steered through cylinder control, various steering modes to accommodate the requirements under various working conditions.

10. Driver's cab

New full-dimension enclosed cab is ergonomically designed for safe and comfortable operation. It is designed to be leakproof, anti-corrosive and shockproof. It is equipped with a windshield offering outstanding visibility, electrical adjustable rear mirrors, electric control washer, electronic lifters of doors and windows, air heater with defrosting function, heater & air conditioner, radio player and new material mat, etc. An air suspension seat is supplied for driver and a simple sleeper for co-driver. A fire extinguisher of 2 kg is available. Heater and air conditioner are standard.

11. Electrical system

24 V DC, two sets of 12 V battery in series.

Generator: 28 V-80 A

1-4-2 Main parts for lifting operations

1. Structure

Designed and manufactured by XCMG, made of high strength steel.

2. Hydraulic system

Electric proportional variable pump is used for lifting, elevating and telescoping operations. A closed pump is used to drive slewing operation. The proportional solenoid steering control valve; air-cooled hydraulic oil radiator.

Effective volume of hydraulic oil tank: 840L

3. Control way

The pilot electric proportional control system is equipped with two levers at left and right sides controlling the main movements of the crane, and stepless slewing speed regulation is available.

4. Main winch system

Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balanced valve and a grooved drum equipped.

5. Auxiliary winch system

Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balanced valve and a grooved drum equipped.

6. Slewing system

Single-row, four-point contact-ball external slewing ring, driven by a planetary gear reducer, which is driven by a hydraulic motor, with constant-closed brake equipped, may continuously slew 360°. Power control and free swing function as well as stepless speed regulation are available.

7. Luffing system

Single luffing cylinder and balance valve with the load compensation function are included. Balance valve-controlled boom gravity combined with power for lowering boom is used for boom elevating down.

8. Operator's cab

Steel cab is equipped with a full-view front window, windows made of safety glass, a sliding door and an adjustable seat with electrical heating function. It can tilt backward about 20°. Sun shade is adopted for roof window, windshield and rear window; wipers, roof protective grilles, pull-out step, LMI, electric controlled armrests, engine accelerator pedal, engine start switch, etc. are also available. Heater and air conditioner are equipped as a standard. A fire extinguisher of 6 kg is supplied.

9. Safety devices.

Hydraulic balance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter, anti-two block, anemometer, winch monitoring device

10. Combined counterweight

Total weight is 53 t. Four configurations of 12 t, 24 t, 36 t and 53 t are available.

11. Hook blocks

130 t hook block, 75 t hook block, 11 t hook block.

12. Boom

Six-section telescopic boom with U profile is made of high strength steel, welded structure with single-plate boom head and compact boom tail. Single-cylinder pinning telescoping system is used.

Boom length: 13.9 m～65 m.

13. Jib

The jib consists of a connecting bracket, a rotating bracket and two lattice sections. Three offset angles of 0°, 15° and 30° are available. It is stowed along the side of the boom.

Jib length: 11 m, 18.5 m

14. Single top

Fitted at boom head, used for single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load does not exceed 11 t.

15. Boom extension (optional)

Two-section lattice welded structure, attached to boom head.

Length of boom extension: 2×8 m.

16. Independent jib head (optional)

Lattice welded structure, attached to boom head.

Length of independent jib head is 2.9 m.

1-5 Signs

All signs must be in place and undamaged, and should not be covered by any things.

1. If it is necessary to replace the markings, please contact XCMG's distributor for new ones. Never modify existing warning decals without permission from XCMG or a distributor.

2. Always be sure to affix new decals to the correct location.

1-5-1 Product nameplates

The product nameplates consist of crane nameplate and chassis nameplate.

1. Crane nameplate

The crane nameplate is fixed outside the door of the operator's cab as shown in the figure.

The crane nameplate contains information such as:

the crane brand, the vehicle identification number (VIN), total vehicle model (declared crane model), product model, engine model, max. rated lifting capacity, manufacturing date, manufacturer, and country of manufacture, etc.

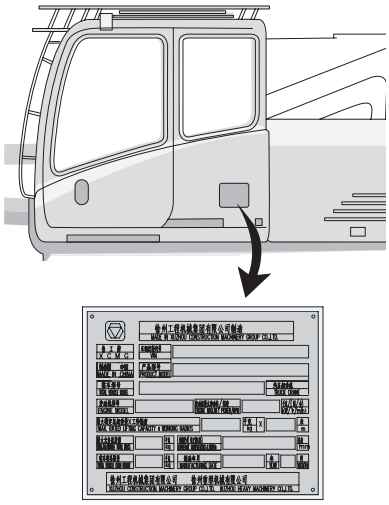


Figure 1-8 Crane nameplate

2. Chassis nameplate

The chassis nameplate is fixed on the right front longitudinal beam of the frame as shown in the figure. The chassis nameplate contains the following information:

a. Model;

b. Chassis serial number;

c. Engine number;

d. Manufacturing date;

e. Manufacturer.

The VIN is marked on the beam below the chassis nameplate.

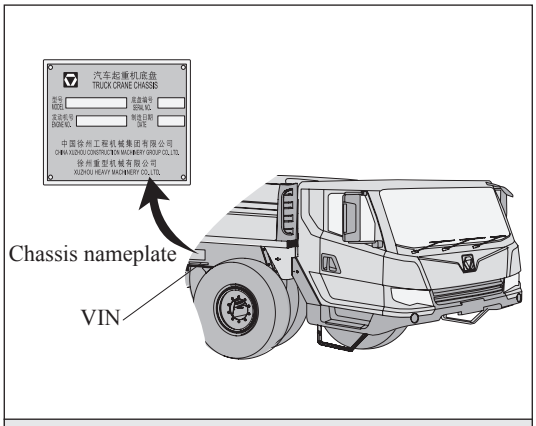


Figure 1-9 Location of chassis nameplate and VIN

3. Product serial number

The product serial number includes the vehicle identification number (VIN) and engine number. It is product identification code, which should be supplied when you order spare parts or ask for technical support.

NOTICE

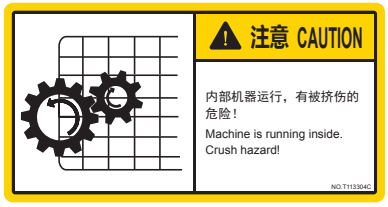
Vehicle identification number (VIN) is readable, because the vehicle identification number (VIN) is stored in engine ECU, which can be read through diagnosis port of the engine. Users can contact serviceman in local engine service station or entrust the service station to read the vehicle identification number through general diagnosis tool.

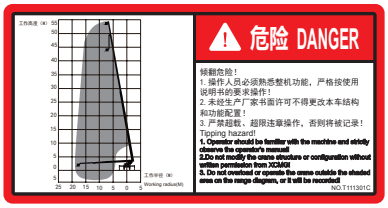
Information that should be recorded		
VIN		
Engine number		
Delivery date		
Distributor's information	Name	
	Address	
	Phone number	

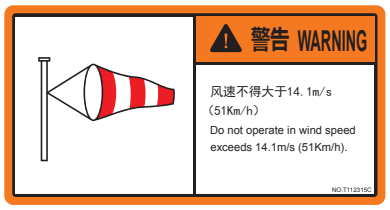
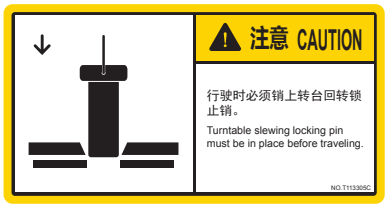
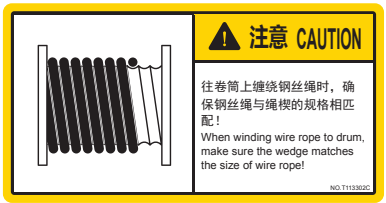
1-5-2 Warning decals

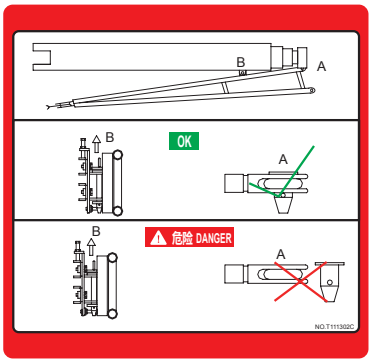
Various warning decals are fixed on the important parts, such as the crane boom, turntable, counterweight and outriggers to safely guide the operator and avoid accidents and injury.

Explanation of warning decals are shown as follows:

No.	Graphic symbols	Name	Notes
1		T112319C Driver's cab	Warning: No one is allowed to stay in the driver's cab during lifting operations!
2		T112312C Bruised hazard	Warning: Bruised hazard! Stay away from the area before extending outriggers.
3		T112313C Falling hazard	Warning: Falling hazard! Take care while climbing a ladder! Never use the ladder during crane traveling or operation!
4		T112310C Personal protective equipment	Warning: Falling hazard! Always wear proper fall protective equipment to avoid slipping and/or falling off the crane.
5		T113201C No stepping	Caution: Never step on the surface.
6		T113304C Pinching hazard	Caution: Keep away from pinch points!
7		T113303C Burn hazard	Caution: Burn hazard! Keep hands away! No flammable or explosive materials here! Fire or explosion may occur!

No.	Graphic symbols	Name	Notes
8		T112317C Crushing hazard for hands!	Warning: Crushing hazard for hands! Keep hands away!
9		T114609C Operator’s duties	Check pressure, oil level, coolant level, etc.
10		T112316C Outrigger lock pin	Warning: Secure outriggers with lock pins.
11		T114604C Driving instructions	Instructions for driving.
12		T113201C Inspection of coolant level	Instructions for inspection of coolant level.
13		T114215C Breaker	Location of breaker
14		T111301C Tipping hazard	Danger: Never overload! Never operate the crane beyond the max. working radius!

No.	Graphic symbols	Name	Notes
15		T112314C Safe clearance	Warning: Keep safe clearance from high voltage power lines!
16		T112315C Wind speed sign	Warning: Never operate the crane if the wind velocity exceeds 14.1 m/s.
17		T113305C Turntable lock pin	Caution: Turntable lock pin must be engaged during traveling!
18		T114210C Fire extinguisher	Position of fire extinguisher
19		T112401C Keep away from moving objects	Warning: Crush hazard! Clear all personnel from the counterweight and superstructure area before removing the counterweight. Death or serious injury could result from being crushed by moving machinery.
20		T113302C Wire rope matching	Caution: Make sure the drum groove is capable of accepting the size of the rope!

No.	Graphic symbols	Name	Notes
21		T111302C Erection of jib	——
22		T112320C Operator's cab	Warning: No one is allowed to stay in the operator's cab during traveling!

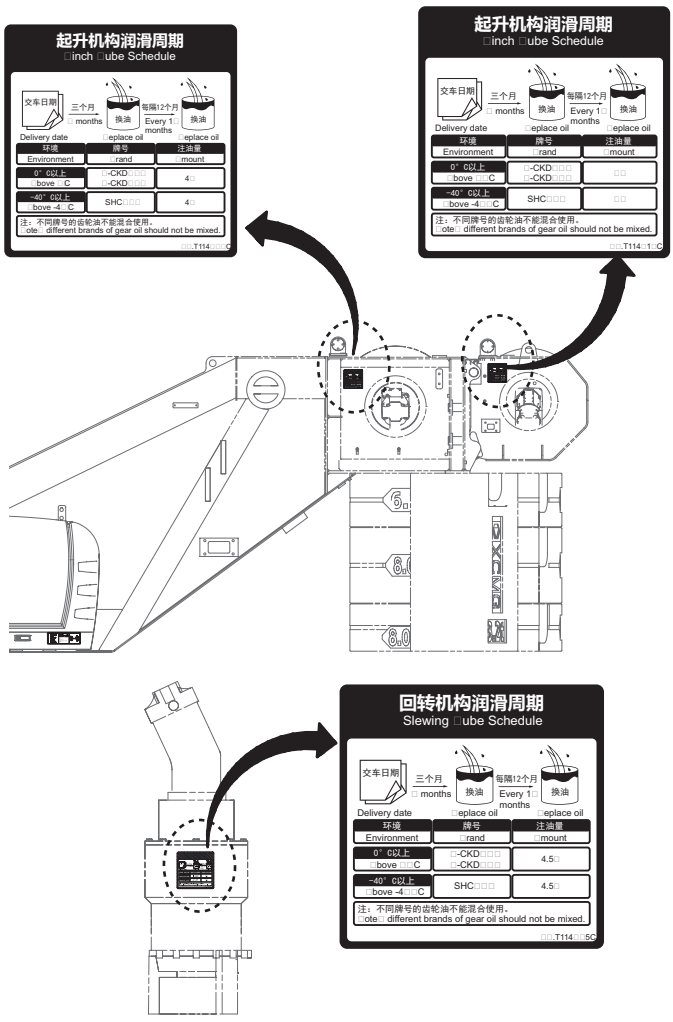
1-5-3 Instruction decals

The instruction decals contain a number of information about the operator's responsibility, safety requirements for driving and operation, instructions on operation of outrigger and oil replacement interval, etc.

These instruction decals (as shown in the figure) may remind of the operator to properly operate and maintain the crane.

CAUTION

Operate the crane according to the instructions on the instruction decals and in the operation manual.



Instruction decals

Chapter 2 Technical specifications

2-1 Overall dimensions

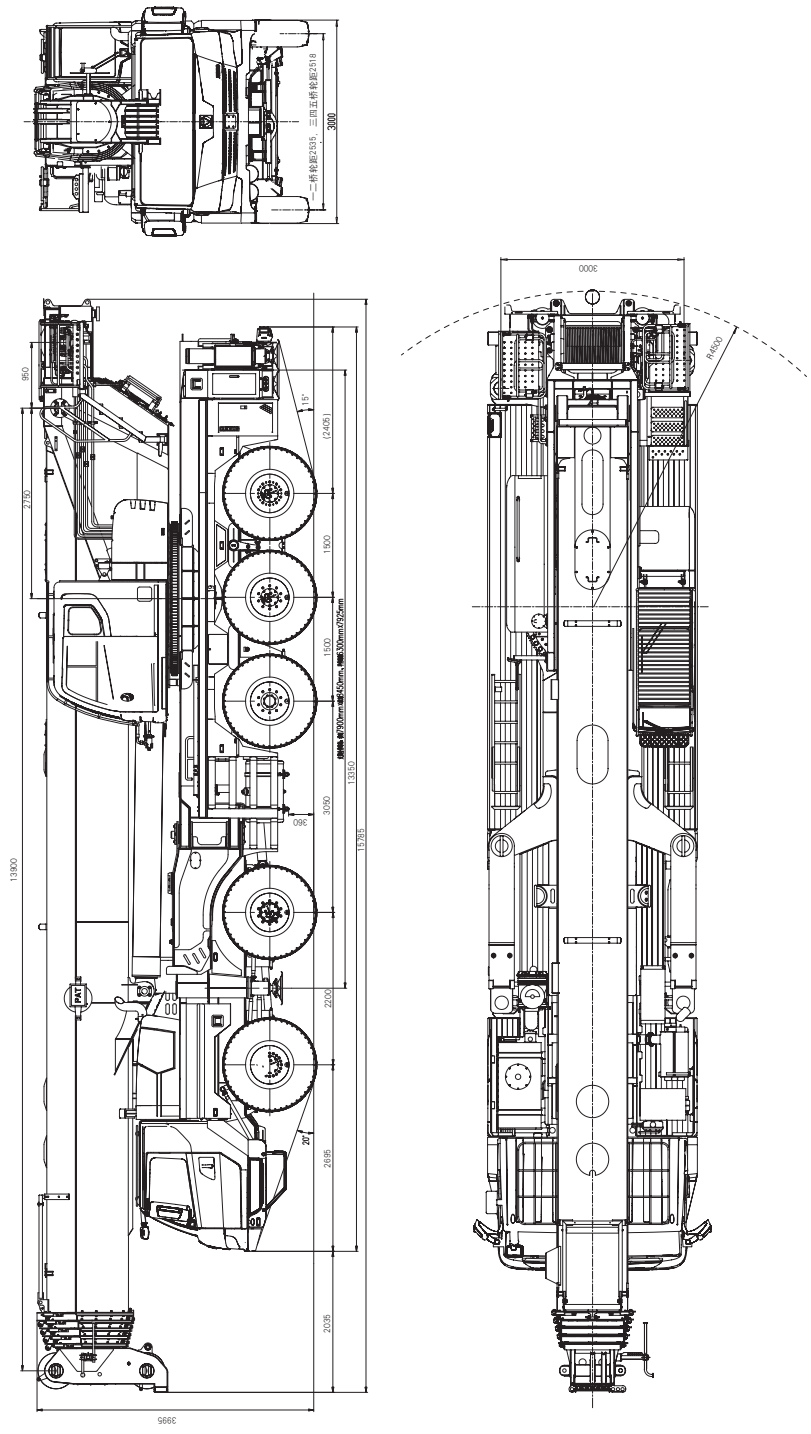


Figure 2-1 Outline dimensions of XCT160H truck crane

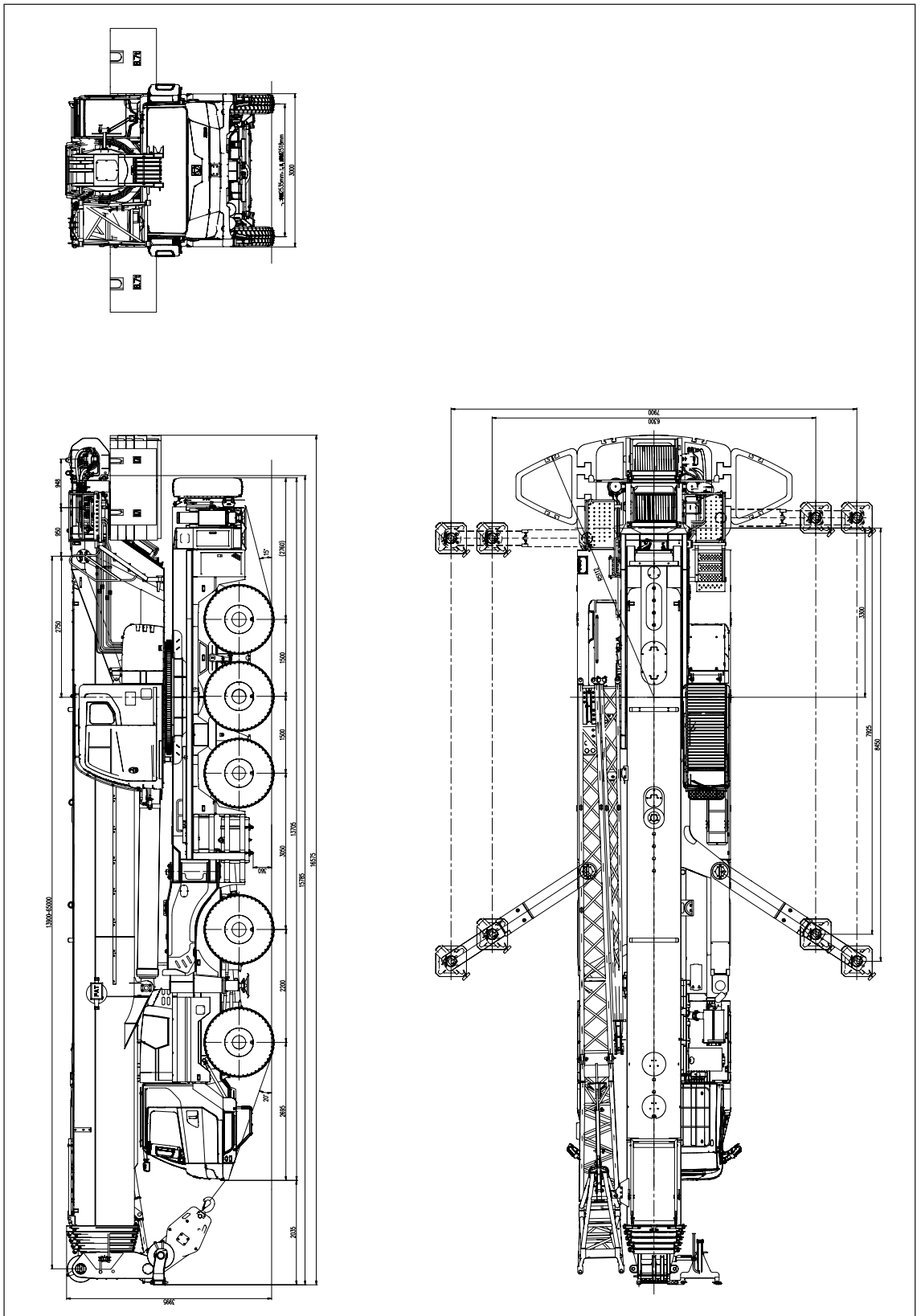


Figure 2-2 Outline dimensions of XCT160H truck crane

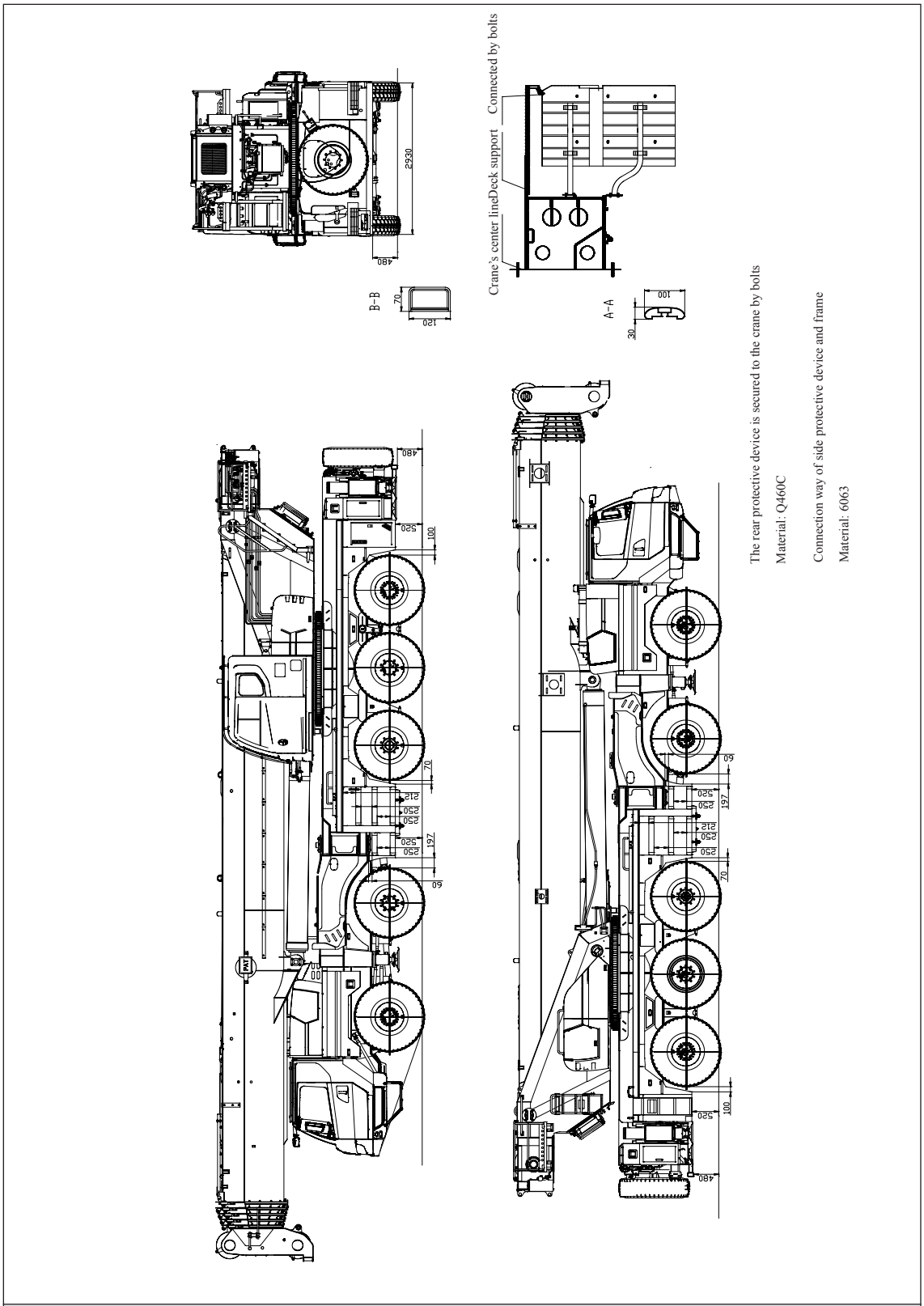


Figure 2-3 Chassis protection devices of XCT160H Truck Crane

2-2 Main technical specifications

Table 2-1 Main technical data of XCT160H truck crane in travel configuration

Category	Item		Unit	Parameter
Dimensions	Overall length		mm	16575
	Overall width		mm	3000
	Overall height		mm	3990
	Wheel base		mm	2200/3050/1500/1500
	Track (front/rear)		mm	2528/2528/2518/2518/2518
	Front overhang/rear overhang		mm	2695/2765
	Front extension/rear extension		mm	2035/40
Weight	Max. permissible weight		kg	54900
	Curb weight		kg	54705
	Axle load	Axle 1	kg	10990
		Axle 2	kg	11000
		Axle 3	kg	11000
		Axle 4	kg	11000
		Axle 5	kg	11000
Power	Engine	Model	——	MC13.48-50
		Rated power/RPM	kW/(r/min)	356/1900
		Max. torque/RPM	N.m/(r/min)	2300/1050~1400
		Max. net power/RPM	kW/(r/min)	353/1900
		Total displacement	L	12.419
		Emission standard	——	China V
		Model	——	WP12.460E62
		Rated power/RPM	kW/(r/min)	338/1900
		Max. torque/RPM	N.m/(r/min)	2200/1000-1400
		Max. net power/RPM	kW/(r/min)	333/1900
		Total displacement	L	11.596
		Emission standard	——	China VI

Continued Table 2-1 Main technical data of XCT160H truck crane in travel configuration

Category	Item (code)		Unit	Parameter
Travel	Travel speed	Max. travel speed	km/h	≥90
		Min. stable travel speed	km/h	3
	Turning diameter	Min. turning diameter	m	≤20
		Min. turning diameter at boom tip	m	≤23
	Minimum ground clearance (K)		mm	369
	Approach angle（α）		°	20
	Departure angle（β）		°	15
	Braking distance (initial speed at 30 km/h)		m	≤10
	Max. grade ability (%)		%	≥45
	Fuel consumption per 100 km		L	65
	Exterior noise level during acceleration travel		dB(A)	≤88
	Noise level at seated position		dB(A)	≤90
Chassis	Wheel alignment	Camber angle of front wheel	°	0
		Caster angle	°	0
		Kingpin inclination	°	6
		Toe-in of front wheel	mm	0
	Driving and steering type		——	10×8×8
	Suspension type	Front	——	Leaf spring
		Rear	——	Leaf spring
	Number of leaf spring (front/rear)		——	8/5
	Leaf spring type		——	Longitudinal
	Tire specifications (front/rear)		——	385R25
	Spare tire specifications			385R25
	Number of tires (spare tire)		——	10 (1)
	Crew			3

Table 2-2 Main technical data of XCT160H truck crane for lifting operations

Category	Item			Unit	Parameter
Main performance	Max. rated lifting capacity			t	160
	Min. rated working radius			m	3
	Turning radius at turntable tail		At counterweight	mm	5112
			At auxiliary winch	mm	5110
	Max. rated load moment		Base boom	kN.m	5200
			Fully-extended boom	kN.m	2728
			Fully-extended boom + jib	kN.m	210
	Outrigger span (fully-extended)		Longitudinal (M)	m	8.45
			Lateral (N)	m	7.9
	Lifting height		Base boom	m	14
			Fully-extended boom	m	64.1
			Fully-extended boom + jib	m	95.5
	Boom length		Base boom	m	13.9
			Fully-extended boom	m	65
			Fully-extended boom + jib	m	99.5
	Jib offset angle			°	0° 15° 30°
Working speed	Time for boom raising			s	≤65
	Time for boom extending fully			s	≤650
	Slewing speed			r/min	≥1.4
	Outrigger extending and retracting time	Outrigger beam	Simultaneously retracting	s	≤40
			Simultaneously extending	s	≤40
		Outrigger jack	Simultaneously retracting	s	≤50
			Simultaneously extending	s	≤50
	Hoisting speed (single line)	Main winch	No load (4th layer)	m/min	≥135
		Auxiliary winch	No load (4th layer)	m/min	≥135
	Exterior noise level			dB (A)	≤110
	Noise level at seated position			dB (A)	≤85

Chapter 3 Rated load charts

3-1 Information for using the load charts

3-1-1 Explanations

1. The load capacity values in the tables are stated in t.

2. The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground. The radius stated is valid under load conditions, i.e. including boom flexure.

3. Boom positions differing from those given in the load capacity tables are not permissible.

4. The boom may only be maneuvered into those areas specified in the load chart, even if no load is suspended, otherwise there is a risk of the crane toppling.

5. The stated load capacities contain the weights of the load bearing, lifting and slinging tackle. The possible weight for the load to be lifted is therefore reduced according to the weights of the afore-mentioned tackle.

5. The boom angle and lifting height given in the load charts are for reference.

6. Before beginning lifting, the operator should know the weight of the load to be lifted and its working range, and should then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.

7. When operating the boom with the jib attached, at least 1750 kg must be deducted from the total rated lifting load for boom.

8. When fully extending the boom, successively extend the 6th, 5th, 4th, 3rd and 2nd boom sections; when fully retracting the boom, successively the 2nd, 3rd, 4th, 5th and 6th boom sections.

9. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane will tip.

10. The lifting capacity of the single top is the same as that for boom, but its maximum should not be more than 10.9 t.

11. For example: telescoping code is “1110”, it means T2:46%,T3:46%,T4:46%,T5:0%.

12. The max. wind force for crane operation is grade 5 (instantaneous wind speed is 14.1 m/s, wind pressure is 125 N/m^2).

1) The boom may be operated, when the wind speed:

is or less than 14.1 m/s for the boom of 20 m or less;

is or less than 12.8 m/s for the boom of 30 m or less;

is or less than 11.1 m/s for the boom of 60 m or less;

is or less than 9 m/s for the boom of more than 60 m;

2) Jib may be operated, when the wind speed:

is or less than 9 m/s.

3-1-2 Crane operating mode "Crane supported”

1. Before the crane is raised on the outriggers, the axles must be lowered and locked.

2. The outrigger beams must be extended (to a uniform length on both sides) to the extent stated in the applied load capacity table.

3. The outrigger beams must be locked in place with the pins.

4. It is necessary to place suitable outrigger pads or cribbing under the outrigger floats according to the ground conditions.

5. All wheels must be raised clear of the ground.

6. Use the control unit to raise and level the crane. The level of the crane must also be checked from time to time and adjusted as necessary.

3-1-3 There is a danger of tipping or a risk of overloading load-bearing components if

1. the turntable is turned away from the forward driving direction of the vehicle. Before turning the superstructure, the crane must be supported on outriggers.

2. the four hydraulic jacks of the crane are not properly supported and in vertical position.

3. cranes are operated on surfaces that can't support the load. Examples include but are not limited to landfills, basements and slopes.

4. the loads and /or the working radii in the load capacity charts corresponding to the boom length are exceeded.

5. the outrigger beams are not extended out to the exact measurement specified in the load charts (on both sides).

6. the outrigger beams are not secured with pins.

7. the hook and load begin swinging due to improper handling.

3-1-4 Telescopic boom

1. The lifting capacity of the telescopic boom with its extendable telescopic sections is limited. The loads stated in the load capacity tables must not be exceeded.

2. The specifications for the telescopic sections to be extended according to load and required boom length must be observed under all circumstances.

3. As a general rule, the boom should first be extended to the required length, and then loaded.

4. Even without a load, the telescopic boom may only be moved within the working radius ranges for which values are listed in the load capacity table.

3-1-5 Rope winches

1. Main winch

Main winch is designed for a maximum rope tension of 10.3 t. This rope tension must not be exceeded under any circumstances. Accordingly, the minimum number of hoisting rope lines (rope reeving) should be selected according to the weight of the load to be lifted and as listed on the load charts.

2. Auxiliary winch

Auxiliary winch is designed for a maximum rope tension of 8 t. This rope tension must not be exceeded under any circumstances. Accordingly, the minimum number of hoisting rope lines (rope reeving) should be selected according to the weight of the load to be lifted and as listed on the load charts.

3. Prevention of rope slack formation

When retracting the boom, the hoisting rope must be spooled in, in order to prevent the hook block from contacting the ground and creating rope slack. The speed of the hoisting rope movement should be matched to that used for retraction! The rope guides on the winches must be supervised by a member of the workforce when additional equipment is being mounted!

3-1-6 Hoisting rope reeving

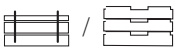
1. The hoisting rope must be reeved in between boom head and hook block in accordance with the maximum rope tension of the winch and the weight of the load to be lifted.

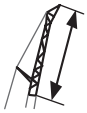
2. If several hoisting rope lines are reeved in, the efficiency of the hook block is reduced due to pulley friction and rope flexure. In consequence, with a rope tension of 70 kN, only 624 kN (63.6 t) can be pulled with a 10-fold line reeving, instead of 700 kN (71 t).

3. The number of hoisting rope lines reeved must be set on the Load moment limiter to match the configuration of the crane.

4. If the hook block is operated with more parts of line than necessary for the respective boom length loads, then the hook block weight will not be sufficient to keep the needed tension on the rope when lowering, which can lead to damage to the rope.

3-1-7 Explanation of symbols

No.	Symbol	Explanation	Remark
1		Working radius (m)	Select the proper working radius according to the requirements of actual working condition
2		Boom length (m)	Select the proper boom length according to the requirements of actual working condition
3		Percentage of boom section extended Telescoping code of boom sections	1. In percentage form: 0% stands for the boom section is fully retracted, 100% stands for the boom section is fully extended; 2. In digit combination form: 0 means that 0% of boom section is extended; 1 is 46% extended, 2 is 92% extended, 3 is 100% extended. The digits from left to right respectively are the codes of the 2nd, 3rd, 4th, 5th and 6th boom sections extended.
4		Boom angle (°)	Select the proper boom angle according to the requirements of actual working condition
5		Min. boom angle (°)	The min. angle of boom in actual working condition
6		Max. boom angle (°)	The max. angle of boom in actual working condition
7		Lifting load (For main boom)	———
8		Lifting height (For main boom)	Select the proper lifting height according to the requirements of actual working condition
9		Fully-extended outriggers	Select outrigger length according to the requirements of actual working condition. The outrigger beams must be extended to the positions stated in the applied load table.
10		Half-extended outriggers	
11		Counterweight	Select counterweight slabs according to the requirements of actual working condition. Before performing erection of counterweight, make sure that outrigger span conforms to the requirements in the load charts.
12		360° operation of the boom	360° operation of the boom is available in the actual working condition
13		With 5th jack down, 360° operation of the boom	With 5th jack down, 360° operation of the boom is available in actual working condition
14		Without 5th jack down, boom over side or over rear	Without 5th jack down, boom is over side or over rear in actual working condition
15	**n**	Parts of line	Select the proper parts of line according to the requirements of actual working condition

16		Hook block	Select the proper hook block according to the requirements of actual working condition
17		Wind speed (m/s)	Max. instantaneous wind speed permissible for lifting operation
18		Jib length (m)	Select the proper jib length according the requirements of actual working condition
19		Jib offset angle (°)	Select the proper jib offset angle according to the requirements of actual working condition
20		Lifting load (For jib)	For lifting load in kg 
21		Radius (For jib)	Select the proper working radius according to the requirements of actual working condition
22		Lifting height (For jib)	Select the proper lifting height according to the requirements of actual working condition
23		Super lifting device	 It means that the unfolding angle of a super lifting arm is 15° .
24		Luffing jib length (m)	——
25		Length of independent jib head (m)	——
26		Boom extension	——
27		Wind power jib length (m)	Select the proper wind power jib length according to the requirements of actual working condition

3-2 Rated load charts

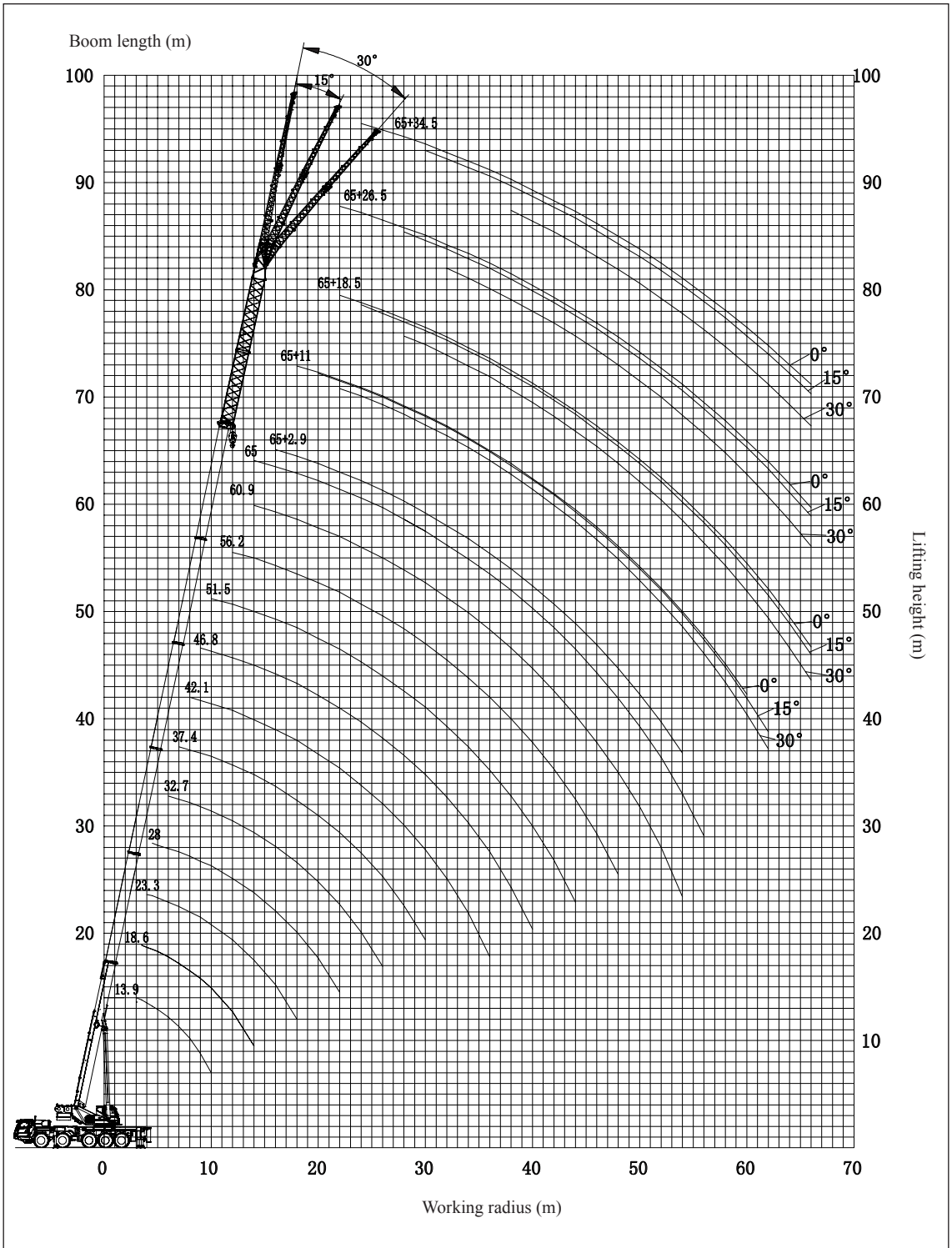


Figure 3-1 Lifting height chart of XCT160H truck crane

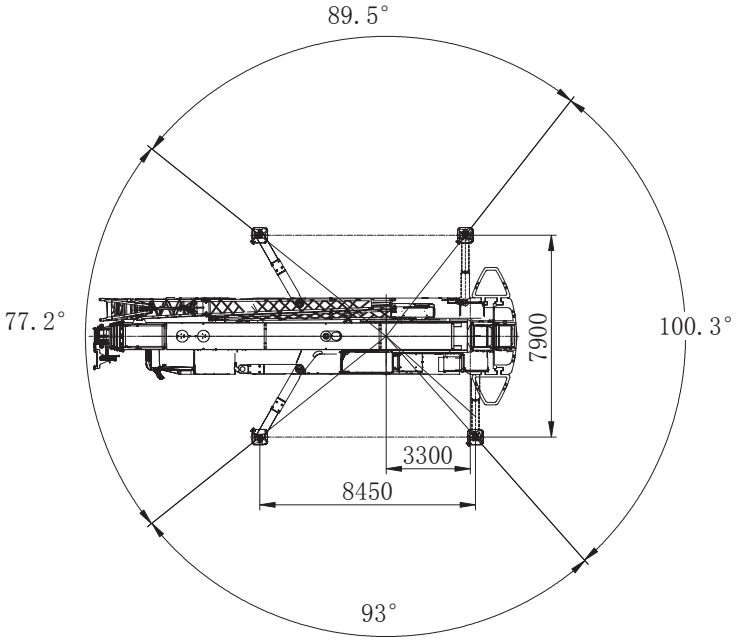


Figure 3-2 Truck crane working areas (on fully-extended outriggers)

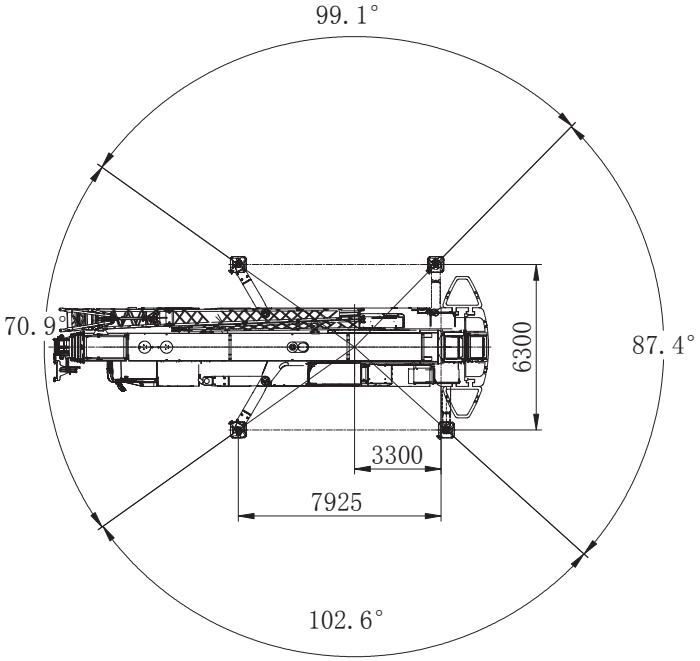


Figure 3-3 Truck crane working areas (on half-extended outriggers)

3-2-1 Lifting load tables for boom

Note: The lifting load with a * is the nominal load and additional equipment is used.

Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

	13.9–37.4m			53t			7.9m × 8.45m			360°	ISO					
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	32.7	32.7	32.7	37.4	37.4	37.4	
3	160*															3
3.5	111	68.8	98.0	98.0												3.5
4	102	65.4	97.5	97.5	70.5	93.0	93.0									4
4.5	100	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0						4.5
5	97	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0						5
6	85	54.7	87.0	87.0	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0			6
7	75.8	50.5	80.0	80.0	56.2	73.0	73.0	59.8	68.0	68.0	48.3	62.8	64.0	56.4	63.0	58.4	7
8	65	47.4	74.3	73.6	52.5	69.0	69.0	56.4	64.0	64.0	44.4	59.0	59.0	52.0	58.0	53.1	8
9	57	44.3	65.3	64.6	49.6	65.2	64.1	53.4	60.0	60.0	40.6	56.0	56.0	48.0	54.0	48.7	9
10	50	41.5	58.1	57.4	46.9	58.0	56.9	50.6	57.8	57.5	37.5	53.0	53.0	44.6	50.0	44.8	10
12		37.3	47.3	46.6	42.0	47.2	46.1	46.1	47.0	46.7	32.8	47.4	46.1	37.4	44.0	38.0	12
14		34.3	37.6	36.8	36.7	37.6	36.2	39.7	37.3	37.0	29.2	37.8	36.3	33.4	35.0	33.3	14
16					32.6	30.6	29.3	32.7	30.3	30.0	26.2	30.8	29.4	30.0	31.7	29.4	16
18					27.4	25.5	24.3	27.5	25.2	25.0	23.6	25.8	24.3	26.8	26.6	25.1	18
20								23.6	21.4	21.1	20.6	21.9	20.5	22.9	22.7	21.3	20
22								20.6	18.3	18.1	17.6	18.9	17.5	19.8	19.6	18.2	22
24											15.1	16.4	15.1	17.4	17.2	15.8	24
26											13.1	14.4	13.1	15.3	15.1	13.8	26
28														13.6	13.4	12.1	28
30														12.2	12.0	10.6	30
t	130t																t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6	n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110	%
m/s	≤14.1									≤12.8							m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	42.1–65m		53t			7.9m × 8.45m				360°		ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8	39.3	51.8	50.2														8
9	37.1	48.4	46.4	29.2	38.3	40.0											9
10	35.2	45.4	42.8	27.7	36.3	38.5	26.0	30.4	31.4								10
12	31.8	39.6	36.2	25.2	32.9	33.6	23.8	28.1	29.3	22.3	24.0						12
14	28.8	34.7	32.0	22.9	29.3	29.8	22.0	24.7	25.8	21.1	22.7	19.2	15.5				14
16	26.2	31.5	28.3	21.0	26.0	26.3	20.5	22.0	23.0	19.4	20.1	18.2	15.4				16
18	24.2	26.4	25.2	19.3	23.5	23.7	19.0	19.9	20.5	17.5	18.1	16.3	14.9				18
20	22.3	22.6	22.0	17.8	21.3	21.4	17.8	18.0	18.5	15.8	16.3	14.8	13.5				20
22	20.3	19.5	19.0	16.6	19.5	19.0	16.3	16.4	16.8	14.5	14.7	14.0	12.5				22
24	17.8	17.1	16.5	15.6	17.2	16.5	15.0	15.0	15.3	13.3	13.5	12.8	11.6				24
26	15.7	15.0	14.5	14.5	15.2	14.5	13.9	13.8	14.0	12.2	12.3	11.8	10.6				26
28	14.0	13.3	12.8	13.7	13.5	12.8	12.9	12.8	12.9	11.3	11.3	10.8	9.8				**28**
30	12.6	11.9	11.4	12.9	12.0	11.3	12.0	11.8	11.5	10.5	10.4	10.0	9.1				**30**
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	42.1–65m		53t			7.9m × 8.45m			360°		ISO						m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
32	11.3	10.6	10.1	11.6	10.8	10.1	11.2	11.0	10.3	9.8	9.7	9.2	8.4				32
34	10.2	9.5	9.0	10.5	9.7	9.0	10.5	10.0	9.2	9.2	9.0	8.6	7.8				34
36				9.6	8.7	8.0	9.6	9.0	8.2	8.5	8.3	7.7	7.2				36
38				8.7	7.9	7.2	8.7	8.2	7.4	8.0	7.7	7.1	6.8				38
40							8.0	7.4	6.6	7.5	6.9	6.9	6.3				40
42							7.3	6.7	5.9	7.0	6.2	6.3	5.8				42
44							6.7	6.1	5.3	6.5	5.6	5.8	5.2				44
46										5.9	5.1	5.5	4.8				46
48										5.4	4.6	5.0	4.4				48
50												4.5	4.3				50
52												4.1	3.9				52
54													3.7				54
56													3.3				56
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	13.9–37.4m		36t		7.9m × 8.45m			360°						ISO				m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130.0																	3
3.5	111.0	68.8	98.0	98.0														3.5
4	102.0	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100.0	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	97.0	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0								5
6	85.0	54.7	87.0	87.0	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0					6
7	75.8	50.5	80.0	80.0	56.2	73.0	73.0	59.8	68.0	68.0	48.3	62.8	64.0	56.4	63.0	58.4		7
8	65.0	47.4	74.3	73.6	52.5	69.0	69.0	56.4	64.0	64.0	44.4	59.0	59.0	52.0	58.0	53.1		8
9	57.0	44.3	61.4	60.4	49.6	61.3	59.6	53.4	60.0	60.0	40.6	56.0	56.0	48.0	54.0	48.7		9
10	50.0	41.5	51.2	50.3	46.9	51.1	49.5	50.6	50.7	50.4	37.5	53.0	51.4	44.6	50.0	44.8		10
12		37.3	37.9	37.0	40.0	37.8	36.3	40.2	37.4	37.1	32.8	39.8	38.0	37.4	39.0	37.2		12
14		30.7	29.5	28.7	31.6	29.4	28.1	31.7	29.1	28.8	28.0	31.3	29.6	30.8	30.6	28.9		14
16					25.7	23.7	22.4	25.8	23.4	23.1	22.4	25.5	23.9	25.0	24.8	23.2		16
18					21.5	19.5	18.2	21.6	19.2	18.9	18.3	21.3	19.7	20.8	20.6	19.0		18
20								18.4	16.0	15.8	15.1	18.1	16.6	17.6	17.4	15.9		20
22								15.8	13.6	13.3	12.7	15.5	14.1	15.1	14.9	13.4		22
24											10.7	13.5	12.1	13.0	12.9	11.4		24
26											9.0	11.8	10.4	11.4	11.2	9.8		26
28														10.0	9.8	8.4		28
30														8.8	8.6	7.1		30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

	42.1–65m			36t			7.9m × 8.45m			360°			ISO					
m	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					m
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8	39.3	51.8	50.2															8
9	37.1	48.4	46.4	29.2	38.3	40.0												9
10	35.2	45.4	42.8	27.7	36.3	38.5	26.0	30.4	31.4									10
12	31.8	38.8	36.2	25.2	32.9	33.6	23.8	28.1	29.3	22.3	24.0							12
14	28.8	30.4	29.8	22.9	29.3	29.7	22.0	24.7	25.8	21.1	22.7	19.2	15.5					14
16	25.5	24.6	24.1	21.0	24.8	24.0	20.5	22.0	23.0	19.4	20.1	18.2	15.4					16
18	21.2	20.4	19.9	19.3	20.6	19.8	19.0	19.9	20.0	17.5	18.1	16.3	14.9					18
20	18.0	17.2	16.7	17.8	17.4	16.6	17.8	17.8	16.8	15.8	16.3	14.8	13.5					20
22	15.5	14.7	14.2	15.8	14.9	14.1	15.9	15.2	14.3	14.5	14.7	13.4	12.3					22
24	13.5	12.7	12.2	13.8	12.9	12.1	13.8	13.2	12.3	13.3	12.7	12.2	11.3					24
26	11.8	11.0	10.5	12.1	11.2	10.5	12.1	11.5	10.7	11.9	11.0	11.3	10.2					26
28	10.4	9.6	9.1	10.7	9.8	9.1	10.7	10.1	9.3	10.5	9.6	10.0	9.3					**28**
30	9.2	8.4	7.9	9.5	8.6	7.9	9.5	8.9	8.1	9.3	8.4	8.8	8.6					**30**
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					**n**
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

	42.1–65m			36t			7.9m × 8.45m			360°			ISO					
m	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					m
32	8.1	7.4	6.9	8.4	7.6	6.8	8.5	7.9	7.0	8.3	7.4	7.8	7.8					32
34	7.2	6.5	6.0	7.5	6.6	5.9	7.6	7.0	6.1	7.4	6.5	6.9	6.9					34
36				6.7	5.8	5.1	6.8	6.2	5.3	6.6	5.7	6.1	6.1					36
38				6.0	5.1	4.4	6.0	5.5	4.6	5.9	5.0	5.4	5.4					38
40							5.4	4.8	4.0	5.2	4.3	4.8	4.8					40
42							4.9	4.3	3.5	4.7	3.8	4.2	4.2					42
44							4.3	3.8	3.0	4.2	3.3	3.7	3.7					44
46										3.7	2.8	3.2	3.3					46
48										3.3	2.4	2.8	2.8					48
50												2.4	2.5					50
52												2.1	2.1					52
54													1.8					54
56																		56
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	13.9–37.4m		24t				7.9m × 8.45m			360°			ISO				m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4	
3	130.0																3
3.5	111.0	68.8	98.0	98.0													3.5
4	102.0	65.4	97.5	97.5	70.5	93.0	93.0										4
4.5	100.0	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0							4.5
5	97.0	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0							5
6	85.0	54.7	87.0	87.0	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0				6
7	75.8	50.5	80.0	79.6	56.2	73.0	73.0	59.8	68.0	68.0	48.3	62.8	64.0	56.4	63.0	58.4	7
8	61.7	47.4	62.2	61.1	52.5	62.1	60.2	56.4	61.6	61.2	44.4	59.0	59.0	52.0	58.0	53.1	8
9	49.6	44.3	50.1	49.1	49.6	50.0	48.3	52.7	49.5	49.1	40.6	52.3	50.2	48.0	51.4	48.7	9
10	41.1	41.5	41.6	40.6	44.0	41.5	39.9	44.1	41.1	40.7	37.5	43.7	41.7	43.1	42.8	40.8	10
12		31.7	30.4	29.6	32.6	30.4	28.9	32.7	30.0	29.7	28.9	32.3	30.6	31.8	31.6	29.8	12
14		24.7	23.4	22.6	25.5	23.4	22.0	25.6	23.0	22.7	22.0	25.3	23.6	24.7	24.5	22.9	14
16					20.6	18.6	17.3	20.8	18.3	18.0	17.3	20.4	18.8	19.9	19.7	18.1	16
18					17.1	15.0	13.7	17.2	14.7	14.4	13.7	16.8	15.2	16.3	16.1	14.5	18
20								14.4	11.9	11.7	11.0	14.0	12.5	13.6	13.3	11.8	20
22								12.2	9.8	9.5	8.9	11.9	10.3	11.4	11.2	9.7	22
24											7.2	10.1	8.6	9.7	9.5	8.0	24
26											5.8	8.7	7.2	8.2	8.1	6.6	26
28														7.1	6.9	5.4	28
30														6.1	5.9	4.4	30
t	130t																t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6	n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110	%
m/s	≤14.1				≤12.8												m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	24t			7.9m × 8.45m			360°					ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8	39.3	51.8	50.2														8
9	37.1	48.4	46.4	29.2	38.3	40.0											9
10	35.2	42.6	41.9	27.7	36.3	38.5	26.0	30.4	31.4								10
12	31.8	31.4	30.7	25.2	31.6	30.7	23.8	28.1	29.3	22.3	24.0						12
14	25.2	24.4	23.8	22.9	24.5	23.7	22.0	24.7	23.9	21.1	22.7	19.2	15.5				14
16	20.4	19.5	19.0	20.7	19.7	18.9	20.5	20.1	19.1	19.4	19.5	18.2	15.4				16
18	16.8	16.0	15.4	17.1	16.1	15.3	17.2	16.5	15.5	17.0	15.9	16.3	14.9				18
20	14.0	13.2	12.6	14.3	13.4	12.6	14.4	13.7	12.8	14.2	13.2	13.6	13.5				20
22	11.8	11.0	10.5	12.2	11.2	10.4	12.2	11.6	10.6	12.0	11.0	11.5	11.5				22
24	10.1	9.3	8.8	10.4	9.5	8.7	10.5	9.8	8.9	10.3	9.3	9.7	9.8				24
26	8.7	7.9	7.4	9.0	8.1	7.3	9.0	8.4	7.5	8.8	7.9	8.3	8.3				26
28	7.5	6.7	6.2	7.8	6.9	6.2	7.8	7.2	6.4	7.7	6.7	7.1	7.2				28
30	6.5	5.7	5.2	6.8	5.9	5.2	6.8	6.2	5.4	6.6	5.7	6.1	6.2				30
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-1 Lifting load tables for boom - On fully-extended outriggers (in t)

m	42.1–65m			24t			7.9m × 8.45m			360°			ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					
32	5.6	4.9	4.4	5.9	5.0	4.3	6.0	5.4	4.5	5.8	4.9	5.3	5.3					32
34	4.9	4.1	3.6	5.2	4.3	3.6	5.2	4.6	3.8	5.0	4.1	4.5	4.6					34
36				4.5	3.7	2.9	4.6	4.0	3.1	4.4	3.5	3.9	3.9					36
38				3.9	3.1	2.4	4.0	3.4	2.6	3.8	2.9	3.3	3.3					38
40							3.5	2.9	2.1	3.3	2.4	2.8	2.8					40
42							3.0	2.4	1.6	2.8	1.9	2.3	2.4					42
44							2.6	2.0	1.2	2.4	1.5	1.9	2.0					44
46										2.0	1.2	1.6	1.6					46
48										1.7		1.2	1.2					48
50																		50
52																		52
54																		54
56																		56
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	13.9–37.4m		12t		7.9m × 8.45m			360°			ISO							m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130.0																	3
3.5	111.0	68.8	98.0	98.0														3.5
4	102.0	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100.0	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	97.0	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0								5
6	85.0	54.7	87.0	87.0	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0					6
7	62.9	50.5	63.4	62.1	56.2	63.2	61.1	59.8	62.7	62.2	48.3	62.8	63.5	56.4	63.0	58.4		7
8	48.0	47.4	48.4	47.3	51.2	48.3	46.4	51.3	47.8	47.4	44.4	50.8	48.6	50.1	49.8	47.6		8
9	38.3	40.2	38.7	37.7	41.3	38.6	36.9	41.4	38.2	37.8	36.9	40.9	38.9	40.3	40.0	37.9		9
10	31.5	33.3	31.9	31.0	34.3	31.8	30.2	34.4	31.4	31.1	30.2	34.0	32.1	33.4	33.1	31.2		10
12		24.1	22.7	21.8	25.1	22.6	21.1	25.2	22.2	21.9	21.0	24.8	22.9	24.2	23.9	22.0		12
14		18.1	16.8	15.9	19.0	16.8	15.3	19.1	16.4	16.1	15.3	18.7	17.0	18.2	18.0	16.2		14
16					14.9	12.8	11.4	15.1	12.5	12.2	11.4	14.7	13.0	14.2	14.0	12.3		16
18					12.1	10.0	8.7	12.2	9.7	9.4	8.7	11.8	10.2	11.3	11.1	9.5		18
20								10.0	7.6	7.3	6.6	9.6	8.1	9.2	9.0	7.4		20
22								8.3	5.9	5.6	5.0	8.0	6.5	7.5	7.3	5.8		22
24											3.7	6.6	5.1	6.2	6.0	4.5		24
26											2.6	5.5	4.0	5.1	4.9	3.4		26
28														4.1	3.9	2.5		28
30														3.4	3.2	1.7		30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-1 Lifting load tables for boom - On fully-extended outriggers (in t)

m	42.1–65m			12t			7.9m × 8.45m			360°			ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					
8	39.3	49.6	48.8															8
9	37.1	39.8	39.1	29.2	38.3	39.0												9
10	34.0	33.0	32.2	27.7	33.2	32.2	26.0	30.4	31.4									10
12	24.7	23.7	23.0	25.1	23.9	23.0	23.8	24.4	23.2	22.3	23.7							12
14	18.7	17.8	17.1	19.1	18.0	17.1	19.1	18.4	17.3	18.9	17.7	18.3	15.5					14
16	14.7	13.8	13.2	15.0	14.0	13.1	15.1	14.4	13.3	14.9	13.8	14.3	14.3					16
18	11.8	11.0	10.4	12.1	11.1	10.3	12.2	11.5	10.5	12.0	10.9	11.4	11.4					18
20	9.6	8.8	8.2	9.9	9.0	8.2	10.0	9.3	8.4	9.8	8.8	9.2	9.3					20
22	7.9	7.1	6.6	8.3	7.3	6.5	8.3	7.7	6.7	8.1	7.1	7.6	7.6					22
24	6.6	5.8	5.3	6.9	6.0	5.2	6.9	6.3	5.4	6.8	5.8	6.2	6.2					24
26	5.5	4.7	4.2	5.8	4.9	4.1	5.8	5.2	4.3	5.6	4.7	5.1	5.2					26
28	4.6	3.8	3.3	4.9	4.0	3.2	4.9	4.3	3.4	4.7	3.8	4.2	4.2					28
30	3.8	3.0	2.5	4.1	3.2	2.5	4.1	3.5	2.7	3.9	3.0	3.4	3.5					30
32	3.1	2.4	1.9	3.4	2.5	1.8	3.5	2.9	2.0	3.3	2.3	2.8	2.8					32
34	2.5	1.8	1.3	2.8	2.0	1.2	2.9	2.3	1.4	2.7	1.8	2.2	2.2					34
36				2.3	1.5		2.4	1.8		2.2	1.3	1.7	1.7					36
38				1.9	1.0		1.9	1.3		1.7		1.2	1.3					38
40							1.5			1.3								40
42							1.2											42
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	13.9–37.4m			0t			7.9m × 8.45m			360°			ISO				m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4	
3	130.0																3
3.5	111.0	68.8	98.0	98.0													3.5
4	102.0	65.4	97.5	97.5	70.5	93.0	93.0										4
4.5	100.0	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0							4.5
5	97.0	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0							5
6	64.8	54.7	65.4	63.9	60.5	65.2	62.7	64.0	64.6	64.0	53.1	66.5	65.6				6
7	45.4	47.7	45.9	44.6	49.0	45.8	43.6	49.2	45.2	44.7	43.6	48.6	46.1	47.8	47.5	44.9	7
8	34.0	36.3	34.6	33.3	37.4	34.4	32.3	37.6	33.9	33.4	32.2	37.1	34.7	36.4	36.1	33.6	8
9	25.9	28.1	26.4	25.2	29.2	26.3	24.3	29.4	25.7	25.3	24.3	28.8	26.5	28.1	27.8	25.5	9
10	20.4	22.4	20.9	19.8	23.5	20.8	19.0	23.6	20.3	19.9	19.0	23.2	21.0	22.5	22.2	20.1	10
12		15.4	14.0	13.0	16.3	13.9	12.3	16.4	13.5	13.1	12.3	16.0	14.1	15.4	15.2	13.3	12
14		11.1	9.8	8.9	12.0	9.8	8.3	12.1	9.4	9.1	8.3	11.7	10.0	11.2	11.0	9.2	14
16					9.1	7.0	5.6	9.2	6.6	6.3	5.6	8.9	7.2	8.3	8.1	6.4	16
18					7.0	5.0	3.7	7.2	4.7	4.4	3.7	6.8	5.2	6.3	6.1	4.5	18
20								5.6	3.2	2.9	2.2	5.3	3.7	4.8	4.6	3.0	20
22								4.4	2.0	1.7	1.1	4.1	2.6	3.6	3.4	1.9	22
24												3.1	1.6	2.6	2.4		24
26												2.3		1.9	1.7		26
28														1.2	1.0		28
30																	30
t	130t																t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6	n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110	%
m/s	≤14.1				≤12.8												m/s

Continued Table 3-1 Lifting load table for boom (on fully-extended outriggers) (in t)

m	42.1–65m			12t			7.9m × 8.45m			360°			ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					
8	37.0	35.9	35.0															8
9	28.8	27.6	26.7	29.2	27.9	26.6												9
10	23.1	22.0	21.2	23.6	22.2	21.1	23.6	22.7	21.4									10
12	16.0	15.0	14.3	16.4	15.2	14.2	16.5	15.6	14.5	16.2	14.9							12
14	11.7	10.8	10.1	12.1	11.0	10.1	12.1	11.4	10.3	11.9	10.7	11.3	11.3					14
16	8.8	8.0	7.3	9.2	8.1	7.3	9.2	8.5	7.5	9.0	7.9	8.4	8.5					16
18	6.8	5.9	5.4	7.1	6.1	5.3	7.2	6.5	5.5	7.0	5.9	6.4	6.4					18
20	5.2	4.4	3.9	5.6	4.6	3.8	5.6	5.0	4.0	5.4	4.4	4.9	4.9					20
22	4.0	3.2	2.7	4.4	3.4	2.6	4.4	3.8	2.8	4.2	3.2	3.7	3.7					22
24	3.1	2.3	1.8	3.4	2.5	1.7	3.4	2.8	1.9	3.2	2.3	2.7	2.7					24
26	2.3	1.5		2.6	1.7		2.6	2.0	1.1	2.5	1.5	1.9	2.0					26
28	1.6			1.9	1.0		2.0	1.4		1.8		1.3	1.3					28
30	1.1			1.4			1.4			1.2								30
32																		32
34																		34
36																		36
38																		38
40																		40
42																		42
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	13.9–37.4m		53t		7.9m × 6.3m			360°						ISO				m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130																	3
3.5	111	68.8	98.0	98.0														3.5
4	102	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	97	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0								5
6	85	54.7	87.0	87.0	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0					6
7	75.8	50.5	80.0	80.0	56.2	73.0	73.0	59.8	68.0	68.0	48.3	62.8	64.0	56.4	63.0	58.4		7
8	65	47.4	74.3	73.6	52.5	69.0	69.0	56.4	64.0	64.0	44.4	59.0	59.0	52.0	58.0	53.1		8
9	57	44.3	65.0	64.0	49.6	64.9	63.2	53.4	60.0	60.0	40.6	56.0	56.0	48.0	54.0	48.7		9
10	50	41.5	54.5	53.6	46.9	54.4	52.8	50.6	54.0	53.6	37.5	53.0	53.0	44.6	50.0	44.8		10
12		37.3	40.6	39.8	42.0	40.5	39.1	42.9	40.2	39.9	32.8	42.5	40.8	37.4	41.7	38.0		12
14		33.1	31.8	31.0	33.9	31.8	30.4	34.0	31.4	31.1	29.2	33.6	32.0	33.1	32.9	31.3		14
16					27.8	25.8	24.5	27.9	25.4	25.1	24.5	27.5	26.0	27.1	26.8	25.3		16
18					23.3	21.4	20.1	23.4	21.0	20.8	20.1	23.1	21.6	22.6	22.4	20.9		18
20								20.0	17.7	17.4	16.8	19.7	18.2	19.2	19.0	17.5		20
22								17.3	15.0	14.8	14.1	17.0	15.5	16.6	16.4	14.9		22
24											12.0	14.8	13.4	14.4	14.2	12.8		24
26											10.3	13.0	11.6	12.6	12.4	11.0		26
28														11.1	10.9	9.5		28
30														9.8	9.7	8.3		30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	42.1–65m			53t			7.9m × 6.3m			360°		ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8	39.3	51.8	50.2														8
9	37.1	48.4	46.4	29.2	38.3	40.0											9
10	35.2	45.4	42.8	27.7	36.3	38.5	26.0	30.4	31.4								10
12	31.8	39.6	36.2	25.2	32.9	33.6	23.8	28.1	29.3	22.3	24.0						12
14	28.8	32.7	32.0	22.9	29.3	29.8	22.0	24.7	25.8	21.1	22.7	19.2	15.5				14
16	26.2	26.7	26.1	21.0	26.0	26.0	20.5	22.0	23.0	19.4	20.1	18.2	15.4				16
18	23.1	22.3	21.7	19.3	22.4	21.6	19.0	19.9	20.5	17.5	18.1	16.3	14.9				18
20	19.7	18.9	18.3	17.8	19.0	18.3	17.8	18.0	18.5	15.8	16.3	14.8	13.5				20
22	17.0	16.2	15.7	16.6	16.4	15.6	16.3	16.4	15.8	14.5	14.7	13.5	12.3				22
24	14.8	14.1	13.5	15.1	14.2	13.5	15.0	14.5	13.7	13.3	13.5	12.3	11.5				24
26	13.0	12.3	11.8	13.3	12.4	11.7	13.4	12.8	11.9	12.2	12.2	11.3	10.6				26
28	11.5	10.8	10.3	11.8	11.0	10.2	11.9	11.3	10.4	11.3	10.8	10.3	9.5				28
30	10.3	9.5	9.0	10.5	9.7	9.0	10.6	10.0	9.2	10.4	9.5	9.5	8.6				30
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	42.1–65m		53t			7.9m × 6.3m			360°			ISO				m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
32	9.2	8.4	7.9	9.4	8.6	7.9	9.5	8.9	8.1	9.3	8.4	8.8	7.9				32
34	8.2	7.5	7.0	8.5	7.6	6.9	8.5	7.9	7.1	8.4	7.5	7.9	7.3				34
36				7.6	6.8	6.1	7.7	7.1	6.3	7.5	6.6	7.0	6.8				36
38				6.9	6.1	5.4	6.9	6.4	5.6	6.8	5.9	6.3	6.3				38
40							6.3	5.7	4.9	6.1	5.2	5.6	5.6				40
42							5.7	5.1	4.3	5.5	4.6	5.0	5.1				42
44							5.1	4.6	3.8	5.0	4.1	4.5	4.5				44
46										4.5	3.6	4.0	4.0				46
48										4.0	3.2	3.6	3.6				48
50												3.2	3.2				50
52												2.8	2.8				52
54													2.5				54
56													2.2				56
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	13.9–37.4m		36t				7.9m × 6.3m				360°			ISO				m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130																	3
3.5	111	68.8	98.0	98.0														3.5
4	102	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	97	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0								5
6	85	54.7	87.0	87.0	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0					6
7	75.8	50.5	79.0	77.8	56.2	73.0	73.0	59.8	68.0	68.0	48.3	62.8	64.0	56.4	63.0	58.4		7
8	60.8	47.4	61.3	60.2	52.5	61.2	59.3	56.4	60.7	60.3	44.4	59.0	59.0	52.0	58.0	53.1		8
9	49.2	44.3	49.6	48.6	49.6	49.5	47.9	52.2	49.1	48.7	40.6	51.8	49.8	48.0	50.9	48.7		9
10	41	41.5	41.4	40.5	43.7	41.3	39.7	43.8	40.9	40.5	37.5	43.4	41.5	42.8	42.6	40.7		10
12		31.7	30.5	29.6	32.6	30.4	29.0	32.7	30.0	29.7	28.9	32.3	30.6	31.8	31.6	29.8		12
14		24.8	23.6	22.8	25.6	23.5	22.2	25.7	23.2	22.9	22.1	25.4	23.7	24.9	24.6	23.0		14
16					20.8	18.8	17.5	20.9	18.4	18.2	17.5	20.5	19.0	20.1	19.9	18.3		16
18					17.3	15.3	14.0	17.4	15.0	14.7	14.1	17.0	15.5	16.6	16.4	14.8		18
20								14.7	12.4	12.1	11.4	14.3	12.9	13.9	13.7	12.2		20
22								12.6	10.3	10.0	9.4	12.2	10.8	11.8	11.6	10.1		22
24											7.7	10.5	9.1	10.1	9.9	8.5		24
26											6.3	9.1	7.7	8.7	8.5	7.1		26
28														7.5	7.3	5.9		28
30														6.5	6.3	4.9		30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	42.1–65m		36t			7.9m × 6.3m				360°						ISO		m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8	39.3	51.8	50.2															8
9	37.1	48.4	46.4	29.2	38.3	40.0												9
10	35.2	42.4	41.7	27.7	36.3	38.5	26.0	30.4	31.4									10
12	31.8	31.4	30.8	25.2	31.6	30.7	23.8	28.1	29.3	22.3	24.0							12
14	25.3	24.5	23.9	22.9	24.7	23.8	22.0	24.7	24.0	21.1	22.7	19.2	15.5					14
16	20.5	19.7	19.1	20.9	19.9	19.1	20.5	20.2	19.3	19.4	19.7	18.2	15.4					16
18	17.0	16.2	15.7	17.3	16.4	15.6	17.4	16.7	15.8	17.2	16.2	16.3	14.9					18
20	14.3	13.5	13.0	14.6	13.7	12.9	14.7	14.0	13.2	14.5	13.5	14.0	13.5					20
22	12.2	11.5	10.9	12.5	11.6	10.9	12.6	11.9	11.1	12.4	11.4	11.9	11.9					22
24	10.5	9.8	9.2	10.8	9.9	9.2	10.8	10.2	9.4	10.7	9.7	10.2	10.2					24
26	9.1	8.4	7.8	9.4	8.5	7.8	9.4	8.8	8.0	9.3	8.3	8.7	8.8					26
28	7.9	7.2	6.7	8.2	7.3	6.6	8.3	7.7	6.8	8.1	7.1	7.6	7.6					28
30	6.9	6.2	5.7	7.2	6.3	5.6	7.2	6.7	5.8	7.1	6.1	6.6	6.6					30
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

	42.1–65m			36t			7.9m × 6.3m			360°			ISO					
m	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65					m
32	6.0	5.3	4.8	6.3	5.5	4.8	6.4	5.8	5.0	6.2	5.3	5.7	5.7					32
34	5.3	4.6	4.1	5.6	4.7	4.0	5.6	5.0	4.2	5.4	4.5	5.0	5.0					34
36				4.9	4.1	3.4	5.0	4.4	3.6	4.8	3.9	4.3	4.3					36
38				4.3	3.5	2.8	4.4	3.8	3.0	4.2	3.3	3.7	3.7					38
40							3.8	3.3	2.5	3.7	2.8	3.2	3.2					40
42							3.4	2.8	2.0	3.2	2.3	2.7	2.7					42
44							2.9	2.4	1.6	2.8	1.9	2.3	2.3					44
46										2.4	1.5	1.9	1.9					46
48										2.0	1.2	1.6	1.6					48
50												1.2	1.3					50
52																		52
54																		54
56																		56
t	75 t																	t
n	5	5	5	4	4	4	3	3	3	3	3	3	3					n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333					%
m/s	≤11.1											≤9						m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	13.9–37.4m		24t		7.9m × 6.3m			360°			ISO							m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130																	3
3.5	111	68.8	98.0	98.0														3.5
4	102	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	97	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0								5
6	85	54.7	86.8	85.4	60.5	78.0	78.0	64.0	73.0	73.0	53.1	66.5	70.0					6
7	62	50.5	62.5	61.3	56.2	62.4	60.3	59.8	61.8	61.4	48.3	62.8	62.7	56.4	63.0	58.4		7
8	47.8	47.4	48.2	47.1	50.9	48.1	46.3	51.0	47.6	47.2	44.4	50.5	48.4	49.9	49.6	47.4		8
9	38.4	40.3	38.8	37.8	41.3	38.7	37.0	41.4	38.3	37.9	37.0	41.0	38.9	40.3	40.1	38.0		9
10	31.7	33.5	32.1	31.2	34.5	32.0	30.5	34.6	31.6	31.3	30.4	34.2	32.3	33.6	33.3	31.4		10
12		24.6	23.3	22.5	25.5	23.2	21.8	25.6	22.9	22.6	21.8	25.2	23.5	24.7	24.4	22.7		12
14		18.9	17.7	16.9	19.8	17.7	16.3	19.9	17.3	17.0	16.3	19.5	17.9	19.0	18.8	17.1		14
16					15.9	13.8	12.5	16.0	13.5	13.2	12.5	15.6	14.1	15.1	14.9	13.3		16
18					13.0	11.0	9.8	13.1	10.7	10.4	9.8	12.8	11.2	12.3	12.1	10.6		18
20								10.9	8.6	8.3	7.7	10.6	9.1	10.1	9.9	8.4		20
22								9.2	6.9	6.6	6.0	8.9	7.4	8.4	8.2	6.8		22
24											4.7	7.5	6.1	7.0	6.9	5.4		24
26											3.6	6.3	4.9	5.9	5.7	4.3		26
28														5.0	4.8	3.4		28
30														4.1	4.0	2.6		30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	42.1–65m			24t			7.9m × 6.3m			360°		ISO					m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
8	39.3	49.4	48.6														8
9	37.1	39.9	39.1	29.2	38.3	39.0											9
10	34.1	33.1	32.4	27.7	33.3	32.4	26.0	30.4	31.4								10
12	25.2	24.2	23.6	25.2	24.4	23.5	23.8	24.8	23.8	22.3	24.0						12
14	19.5	18.6	18.0	19.8	18.8	18.0	19.9	19.2	18.2	19.7	18.6	19.1	15.5				14
16	15.6	14.8	14.2	15.9	14.9	14.1	16.0	15.3	14.3	15.8	14.7	15.2	15.2				16
18	12.7	11.9	11.4	13.1	12.1	11.3	13.1	12.5	11.5	12.9	11.9	12.4	12.4				18
20	10.6	9.8	9.2	10.9	10.0	9.2	10.9	10.3	9.4	10.7	9.7	10.2	10.2				20
22	8.9	8.1	7.6	9.2	8.3	7.5	9.2	8.6	7.7	9.0	8.1	8.5	8.5				22
24	7.5	6.7	6.2	7.8	6.9	6.1	7.8	7.2	6.3	7.6	6.7	7.1	7.1				24
26	6.3	5.6	5.1	6.6	5.7	5.0	6.7	6.1	5.2	6.5	5.5	6.0	6.0				26
28	5.4	4.6	4.1	5.7	4.8	4.1	5.7	5.1	4.3	5.5	4.6	5.0	5.0				28
30	4.5	3.8	3.3	4.8	4.0	3.3	4.9	4.3	3.5	4.7	3.8	4.2	4.2				30
32	3.8	3.1	2.6	4.1	3.3	2.6	4.2	3.6	2.8	4.0	3.1	3.5	3.5				32
34	3.2	2.5	2.0	3.5	2.7	2.0	3.6	3.0	2.2	3.4	2.5	2.9	2.9				34
36				3.0	2.1	1.4	3.0	2.4	1.6	2.8	2.0	2.4	2.4				36
38				2.5	1.7		2.5	2.0	1.2	2.4	1.5	1.9	1.9				38
40							2.1	1.5		1.9	1.1	1.5	1.5				40
42							1.7	1.2		1.6		1.1	1.1				42
44							1.4			1.2							44
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	13.9–37.4m		12t		7.9m × 6.3m			360°						ISO				m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130																	3
3.5	111	68.8	98.0	98.0														3.5
4	102	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	97	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0								5
6	64	54.7	64.6	63.2	60.5	64.4	62.0	64.0	63.8	63.3	53.1	66.5	64.8					6
7	45.6	47.8	46.0	44.9	49.0	45.9	43.9	49.2	45.4	44.9	43.8	48.7	46.2	47.9	47.6	45.1		7
8	34.7	36.7	35.1	34.1	37.8	35.0	33.2	38.0	34.6	34.2	33.2	37.5	35.3	36.8	36.5	34.3		8
9	27.5	29.4	28.0	27.0	30.4	27.9	26.2	30.6	27.4	27.1	26.2	30.1	28.1	29.5	29.2	27.2		9
10	22.5	24.3	22.9	22.0	25.2	22.8	21.2	25.3	22.4	22.0	21.2	24.9	23.0	24.3	24.1	22.2		10
12		17.4	16.2	15.3	18.3	16.1	14.6	18.4	15.7	15.4	14.6	18.0	16.3	17.5	17.3	15.5		12
14		13.1	11.9	11.1	13.9	11.8	10.5	14.0	11.5	11.2	10.5	13.7	12.0	13.2	13.0	11.3		14
16					10.9	8.9	7.6	11.0	8.6	8.3	7.6	10.7	9.1	10.2	10.0	8.4		16
18					8.7	6.8	5.5	8.8	6.5	6.2	5.5	8.5	7.0	8.0	7.8	6.3		18
20								7.2	4.8	4.6	3.9	6.8	5.3	6.4	6.2	4.7		20
22								5.8	3.6	3.3	2.7	5.5	4.1	5.1	4.9	3.4		22
24											1.6	4.4	3.0	4.0	3.8	2.4		24
26												3.6	2.2	3.1	2.9	1.5		26
28														2.4	2.2			28
30														1.8	1.6			30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	42.1–65m		12t			7.9m × 6.3m			360°		ISO						m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
8	37.4	36.3	35.5														8
9	30.1	29.0	28.3	29.2	29.3	28.2											9
10	24.9	23.9	23.2	25.3	24.1	23.1	25.3	24.5	23.4								10
12	18.0	17.1	16.5	18.4	17.3	16.4	18.4	17.7	16.6	18.2	17.0						12
14	13.7	12.8	12.2	14.0	13.0	12.1	14.1	13.4	12.4	13.8	12.7	13.2	13.3				14
16	10.7	9.8	9.3	11.0	10.0	9.2	11.0	10.4	9.4	10.8	9.8	10.3	10.3				16
18	8.5	7.7	7.1	8.8	7.8	7.1	8.8	8.2	7.3	8.6	7.6	8.1	8.1				18
20	6.8	6.0	5.5	7.1	6.2	5.4	7.2	6.5	5.6	7.0	6.0	6.4	6.5				20
22	5.5	4.7	4.2	5.8	4.9	4.1	5.8	5.2	4.3	5.7	4.7	5.1	5.2				22
24	4.4	3.7	3.2	4.7	3.8	3.1	4.8	4.2	3.3	4.6	3.6	4.1	4.1				24
26	3.6	2.8	2.3	3.8	3.0	2.2	3.9	3.3	2.4	3.7	2.8	3.2	3.2				26
28	2.8	2.1	1.6	3.1	2.2	1.5	3.2	2.6	1.7	3.0	2.0	2.5	2.5				28
30	2.2	1.5		2.5	1.6		2.5	1.9	1.1	2.3	1.4	1.8	1.9				30
32	1.6			1.9	1.1		2.0	1.4		1.8		1.3	1.3				32
34	1.2			1.5			1.5			1.3							34
36				1.0			1.1										36
38																	38
40																	40
42																	42
44																	44
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	13.9–37.4m		0t		7.9m × 6.3m			360°					ISO					m
	13.9	18.6	18.6	18.6	23.3	23.3	23.3	28	28	28	32.7	32.7	32.7	37.4	37.4	37.4		
3	130																	3
3.5	111	68.8	98.0	98.0														3.5
4	102	65.4	97.5	97.5	70.5	93.0	93.0											4
4.5	100	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0								4.5
5	68.2	59.7	68.9	67.1	64.7	68.7	65.6	68.6	67.9	67.2								5
6	41.8	44.5	42.4	41.0	45.9	42.2	39.8	46.1	41.6	41.0	39.8	45.4	42.6					6
7	29.1	31.4	29.6	28.4	32.6	29.5	27.4	32.7	28.9	28.5	27.4	32.2	29.8	31.5	31.1	28.6		7
8	21.6	23.7	22.1	21.0	24.8	22.0	20.2	24.9	21.5	21.1	20.1	24.4	22.2	23.7	23.4	21.2		8
9	16.7	18.6	17.1	16.2	19.6	17.0	15.4	19.7	16.6	16.2	15.3	19.3	17.3	18.7	18.4	16.4		9
10	13.2	15.0	13.6	12.7	16.0	13.5	12.0	16.1	13.1	12.8	11.9	15.7	13.8	15.1	14.8	12.9		10
12		10.3	9.0	8.1	11.1	8.9	7.5	11.3	8.5	8.2	7.5	10.9	9.1	10.3	10.1	8.4		12
14		7.3	6.1	5.3	8.1	6.0	4.6	8.2	5.7	5.4	4.6	7.8	6.2	7.3	7.1	5.5		14
16					6.0	4.0	2.7	6.1	3.7	3.4	2.7	5.8	4.2	5.3	5.1	3.5		16
18					4.5	2.5	1.2	4.6	2.2	1.9	1.3	4.2	2.7	3.8	3.6	2.0		18
20								3.4	1.1			3.1	1.6	2.6	2.4			20
22								2.5				2.1		1.7	1.5			22
24												1.4						24
26																		26
28																		28
30																		30
t	130t																	t
n	12	7	11	11	8	9	9	8	8	8	7	7	7	6	6	6		n
%	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110	02111	11111	21110		%
m/s	≤14.1				≤12.8													m/s

Continued Table 3-2 Lifting load table for boom (on half-extended outriggers (in t)

m	42.1–65m		0t			7.9m × 6.3m			360°			ISO				m
	42.1	42.1	42.1	46.8	46.8	46.8	51.5	51.5	51.5	56.2	56.2	60.9	65				
8	24.4	23.2	22.4														8
9	19.3	18.2	17.5	19.7	18.4	17.4											9
10	15.6	14.6	13.9	16.0	14.8	13.9	16.1	15.3	14.1								10
12	10.8	9.9	9.3	11.2	10.1	9.2	11.3	10.5	9.5	11.0	9.9						12
14	7.8	7.0	6.4	8.2	7.1	6.3	8.2	7.5	6.5	8.0	6.9	7.4	7.4				14
16	5.7	4.9	4.3	6.1	5.1	4.3	6.1	5.4	4.5	5.9	4.9	5.3	5.4				16
18	4.2	3.4	2.9	4.5	3.6	2.8	4.6	3.9	3.0	4.4	3.4	3.8	3.9				18
20	3.0	2.3	1.7	3.4	2.4	1.7	3.4	2.8	1.9	3.2	2.2	2.7	2.7				20
22	2.1	1.4		2.4	1.5		2.5	1.9		2.3	1.3	1.8	1.8				22
24	1.4			1.7			1.7	1.1		1.5		1.0	1.1				24
26				1.1			1.1										26
28																	28
30																	30
32																	32
34																	34
36																	36
38																	38
40																	40
42																	42
44																	44
t	75 t																t
n	5	5	5	4	4	4	3	3	3	3	3	3	3				n
%	11112	12111	21111	11122	12211	22111	11222	12221	22211	12222	22221	22222	33333				%
m/s	≤11.1											≤9					m/s

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3-2-2 Lifting load tables for jib

Table 3-3 Lifting load table for jib of 11 m (on fully-extended outriggers) (in t)

	53t			7.9m x 8.45m			ISO			
	56.2			60.9			65			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	7.5	5.7	4.2	7.2	5.5	4.1	7.0	5.3	4.0	24
26	7.3	5.5	4.0	7.1	5.4	4.0	6.8	5.2	3.9	26
28	7.1	5.3	3.8	6.8	5.2	3.8	6.6	5.1	3.8	28
30	6.9	5.2	3.7	6.7	5.1	3.7	6.5	4.9	3.6	30
32	6.7	5.1	3.6	6.5	5.0	3.6	6.3	4.8	3.5	32
34	6.4	4.9	3.4	6.4	4.9	3.5	6.2	4.7	3.4	34
36	6.3	4.7	3.3	6.2	4.8	3.4	5.8	4.7	3.3	36
38	6.2	4.3	3.2	6.0	4.6	3.2	5.4	4.6	3.2	38
40	6.0	4.2	3.1	5.6	4.4	3.1	5.0	4.4	3.1	40
42	5.7	4.1	3.1	5.2	4.2	3.0	4.6	4.3	3.0	42
44	5.3	4.0	3.0	4.8	4.1	3.1	4.2	4.2	3.0	44
46	5.0	3.8	2.9	4.5	4.0	3.0	3.9	3.9	2.9	46
48		3.8	2.9	4.1	3.8	2.9	3.7	3.7	2.9	48
50		3.6	2.8		3.7	2.8	3.4	3.4	2.8	50
52			2.6		3.4	2.9	3.1	3.2	2.8	52
54			2.4			2.6		2.7	2.8	54
56						2.4			2.4	56
58									2.2	58
60										60
62										62
64										64
66										66
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m (on fully-extended outriggers) (in t)

	53t			7.9m × 8.45m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.2	2.0	1.5	34
36	2.8	2.0	1.3	3.0	1.9	1.3	3.0	1.9	1.4	36
38	2.7	1.8	1.3	2.8	1.7	1.3	2.9	1.7	1.3	38
40	2.6	1.7	1.3	2.7	1.6	1.3	2.8	1.6	1.4	40
42	2.5	1.6	1.2	2.6	1.6	1.2	2.6	1.5	1.3	42
44	2.3	1.6	1.2	2.4	1.6	1.2	2.5	1.5	1.3	44
46	2.2	1.6	1.2	2.3	1.5	1.2	2.4	1.5	1.1	46
48	2.1	1.5	1.2	2.2	1.5	1.2	2.3	1.4	1.2	48
50	2.0	1.5	1.2	2.1	1.4	1.2	2.1	1.4	1.1	50
52		1.4	1.1	1.9	1.4	1.1	2.0	1.4	1.2	52
54		1.4	1.1	1.9	1.4	1.1	2.1	1.4	1.1	54
56			1.0		1.3	1.1	2.0	1.4	1.1	56
58			1.0		1.1	1.1		1.3	1.1	58
60						1.0		1.3	1.0	60
62						1.0			1.0	62
64									1.0	64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on fully-extended outriggers) (in t)

	53t			7.9m × 8.45m			ISO			
	56.2+8			60.9+8			65+8			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.3	2.1	1.6	3.1	2.2	1.5	3.0	2.2	1.5	32
34	3.3	2.0	1.5	3.0	2.1	1.5	2.9	2.1	1.5	34
36	3.1	1.9	1.4	3.0	1.9	1.4	2.9	2.0	1.4	36
38	3.0	1.8	1.3	3.0	1.9	1.4	2.9	1.9	1.4	38
40	2.9	1.8	1.3	2.9	1.8	1.3	2.8	1.9	1.3	40
42	2.7	1.8	1.3	2.7	1.7	1.3	2.8	1.8	1.3	42
44	2.5	1.7	1.2	2.6	1.7	1.3	2.8	1.8	1.3	44
46	2.3	1.5	1.2	2.5	1.7	1.3	2.7	1.7	1.2	46
48	2.2	1.6	1.2	2.4	1.6	1.2	2.6	1.6	1.2	48
50	2.1	1.5	1.2	2.2	1.5	1.2	2.5	1.6	1.2	50
52	2.0	1.4	1.1	2.1	1.6	1.2	2.4	1.6	1.1	52
54	2.1	1.5	1.1	2.1	1.5	1.2	2.2	1.6	1.1	54
56	2.0	1.4	1.1	2.1	1.4	1.2	2.1	1.4	1.1	56
58		1.3	1.0	2.0	1.5	1.1	2.0	1.4	1.1	58
60		1.2	1.0	1.8	1.4	1.1	1.8	1.4	1.1	60
62			1.0		1.3	1.0	1.7	1.3	1.0	62
64						1.0		1.3	1.0	64
66									1.0	66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on fully-extended outriggers) (in t)

	53t			7.9m × 8.45m			ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.9	2.2		2.6	2.3		2.4	2.3		34
36	2.9	2.0	1.5	2.6	2.1		2.4	2.2		36
38	2.9	2.0	1.4	2.6	2.0	1.5	2.3	2.0	1.5	38
40	2.8	2.0	1.4	2.6	2.0	1.4	2.3	2.0	1.4	40
42	2.8	1.8	1.4	2.5	2.0	1.4	2.3	2.0	1.4	42
44	2.7	1.8	1.4	2.5	1.8	1.4	2.3	1.9	1.4	44
46	2.5	1.8	1.3	2.5	1.8	1.3	2.2	1.9	1.4	46
48	2.5	1.6	1.3	2.4	1.8	1.3	2.2	1.8	1.3	48
50	2.5	1.6	1.3	2.4	1.8	1.3	2.2	1.8	1.3	50
52	2.3	1.6	1.3	2.3	1.6	1.3	2.1	1.7	1.3	52
54	2.2	1.5	1.2	2.2	1.6	1.3	2.0	1.6	1.3	54
56	2.1	1.5	1.1	2.1	1.5	1.3	1.9	1.6	1.3	56
58	2.1	1.5	1.1	1.8	1.5	1.2	1.4	1.6	1.3	58
60	2.0	1.4	1.1	1.8	1.5	1.1	1.3	1.6	1.3	60
62	2.0	1.4	1.1	1.7	1.5	1.1		1.2	1.2	62
64		1.4	1.1		1.4	1.1			1.0	64
66			1.1			1.1				66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 11 m (on fully-extended outriggers) (in t)

	36t			7.9m x 8.45m			ISO			
	56.2			60.9			65			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	7.5	5.7	4.2	7.2	5.5	4.1	7.0	5.3	4.0	24
26	7.3	5.5	4.0	7.1	5.4	4.0	6.8	5.2	3.9	26
28	7.1	5.3	3.8	6.8	5.2	3.8	6.6	5.1	3.8	28
30	6.9	5.2	3.7	6.7	5.1	3.7	6.5	4.9	3.6	30
32	6.7	5.1	3.6	6.5	5.0	3.6	6.3	4.8	3.5	32
34	6.4	4.9	3.4	6.4	4.9	3.5	6.2	4.7	3.4	34
36	5.8	4.7	3.3	6.0	4.8	3.4	5.8	4.7	3.3	36
38	5.1	4.3	3.2	5.3	4.6	3.2	5.3	4.6	3.2	38
40	4.4	4.2	3.1	4.7	4.4	3.1	4.6	4.4	3.1	40
42	3.9	4.1	3.1	4.1	4.2	3.0	4.1	4.3	3.0	42
44	3.4	3.6	3.0	3.6	3.9	3.1	3.6	3.8	3.0	44
46	2.9	3.2	2.9	3.2	3.4	3.0	3.1	3.4	2.9	46
48		2.7	2.9	2.8	3.0	2.9	2.7	2.9	2.9	48
50		2.3	2.4		2.6	2.7	2.4	2.6	2.7	50
52			2.1		2.2	2.3	2.0	2.2	2.3	52
54			1.7			2.0		1.9	2.0	54
56						1.7			1.7	56
58									1.4	58
60										60
62										62
64										64
66										66
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m (on fully-extended outriggers) (in t)

	36t			7.9m × 8.45m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.2	2.0	1.5	34
36	2.8	2.0	1.3	3.0	1.9	1.3	3.0	1.9	1.4	36
38	2.7	1.8	1.3	2.8	1.7	1.3	2.9	1.7	1.3	38
40	2.6	1.7	1.3	2.7	1.6	1.3	2.8	1.6	1.4	40
42	2.5	1.6	1.2	2.6	1.6	1.2	2.6	1.5	1.3	42
44	2.3	1.6	1.2	2.4	1.6	1.2	2.5	1.5	1.3	44
46	2.2	1.6	1.2	2.3	1.5	1.2	2.4	1.5	1.1	46
48	2.1	1.5	1.2	2.2	1.5	1.2	2.3	1.4	1.2	48
50	2.0	1.5	1.2	2.1	1.4	1.2	2.1	1.4	1.1	50
52		1.4	1.1	1.9	1.4	1.1	2.0	1.4	1.2	52
54		1.4	1.1	1.9	1.4	1.1	2.0	1.4	1.1	54
56			1.0		1.3	1.1	1.8	1.4	1.1	56
58			1.0		1.1	1.1		1.3	1.1	58
60						1.0		1.3	1.0	60
62						1.0			1.0	62
64									1.0	64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on fully-extended outriggers) (in t)

	36t			7.9m × 8.45m			ISO			
	56.2+8			60.9+8			65+8			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.3	2.1	1.6	3.1	2.2	1.5	3.0	2.2		32
34	3.3	2.0	1.5	3.0	2.1	1.5	2.9	2.1		34
36	3.1	1.9	1.4	3.0	1.9	1.4	2.9	2.0		36
38	3.0	1.8	1.3	3.0	1.9	1.4	2.9	1.9		38
40	2.9	1.8	1.3	2.9	1.8	1.3	2.8	1.9		40
42	2.7	1.8	1.3	2.7	1.7	1.3	2.8	1.8		42
44	2.5	1.7	1.2	2.6	1.7	1.3	2.8	1.8		44
46	2.3	1.5	1.2	2.5	1.7	1.3	2.7	1.7		46
48	2.2	1.6	1.2	2.4	1.6	1.2	2.6	1.6		48
50	2.1	1.5	1.2	2.2	1.5	1.2	2.5	1.6		50
52	2.0	1.4	1.1	2.1	1.6	1.2	2.4	1.6		52
54	2.1	1.5	1.1	2.1	1.5	1.2	2.1	1.6		54
56	1.8	1.4	1.1	1.9	1.4	1.2	1.8	1.4		56
58		1.3	1.0	1.7	1.5	1.1	1.6	1.4		58
60		1.2	1.0	1.4	1.4	1.1	1.3	1.4		60
62			1.0		1.3	1.0	1.1	1.3		62
64						1.0		1.2		64
66										66
68										68
n	1									n
%	22221			22222			33333			%
t	11t									t
m/s	≤9									m/s

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on fully-extended outriggers) (in t)

	36t			7.9m × 8.45m			ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
					t					
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.9	2.2		2.6	2.3		2.4	2.3		34
36	2.9	2.0	1.5	2.6	2.1		2.4	2.2		36
38	2.9	2.0	1.4	2.6	2.0	1.5	2.3	2.0	1.5	38
40	2.8	2.0	1.4	2.6	2.0	1.4	2.3	2.0	1.4	40
42	2.8	1.8	1.4	2.5	2.0	1.4	2.3	2.0	1.4	42
44	2.7	1.8	1.4	2.5	1.8	1.4	2.3	1.9	1.4	44
46	2.5	1.8	1.3	2.5	1.8	1.3	2.2	1.9	1.4	46
48	2.5	1.6	1.3	2.4	1.8	1.3	2.2	1.8	1.3	48
50	2.5	1.6	1.3	2.4	1.8	1.3	2.2	1.8	1.3	50
52	2.3	1.6	1.3	2.3	1.6	1.3	2.1	1.7	1.3	52
54	2.2	1.5	1.2	2.2	1.6	1.3	2.0	1.6	1.3	54
56	1.9	1.5	1.1	2.0	1.5	1.3	1.9	1.6	1.3	56
58	1.6	1.5	1.1	1.7	1.5	1.2	1.4	1.6	1.3	58
60	1.4	1.4	1.1	1.5	1.5	1.1	1.3	1.6	1.3	60
62	1.1	1.4	1.1	1.2	1.5	1.1		1.2	1.2	62
64		1.3	1.1		1.4	1.1			1.0	64
66			1.1			1.1				66
68										68
n	1									n
%	22221			22222			33333			%
t	11t									t
m/s	≤9									m/s

Continued Table 3-3 Lifting load table for jib of 11 m (on fully-extended outriggers) (in t)

	24t			7.9m × 8.45m			ISO			
	56.2			60.9			65			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	7.5	5.7	4.2	7.2	5.5	4.1	7.0	5.3	4.0	24
26	7.3	5.5	4.0	7.1	5.4	4.0	6.8	5.2	3.9	26
28	6.8	5.3	3.8	6.8	5.2	3.8	6.6	5.1	3.8	28
30	5.8	5.2	3.7	6.0	5.1	3.7	6.0	4.9	3.6	30
32	4.9	5.1	3.6	5.2	5.0	3.6	5.1	4.8	3.5	32
34	4.2	4.6	3.4	4.5	4.8	3.5	4.4	4.7	3.4	34
36	3.6	3.9	3.3	3.8	4.2	3.4	3.8	4.1	3.3	36
38	3.0	3.3	3.2	3.3	3.6	3.2	3.2	3.5	3.2	38
40	2.5	2.8	3.0	2.7	3.0	3.1	2.7	3.0	3.1	40
42	2.0	2.3	2.5	2.3	2.6	2.8	2.2	2.5	2.7	42
44	1.6	1.9	2.0	1.9	2.1	2.3	1.8	2.1	2.3	44
46	1.3	1.5	1.6	1.5	1.7	1.9	1.5	1.7	1.9	46
48		1.1	1.3	1.2	1.4	1.5	1.1	1.3	1.5	48
50					1.1	1.2			1.2	50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m (on fully-extended outriggers) (in t)

	24t			7.9m × 8.45m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.2	2.0	1.5	34
36	2.8	2.0	1.3	3.0	1.9	1.3	3.0	1.9	1.4	36
38	2.7	1.8	1.3	2.8	1.7	1.3	2.9	1.7	1.3	38
40	2.6	1.7	1.3	2.7	1.6	1.3	2.8	1.6	1.4	40
42	2.5	1.6	1.2	2.6	1.6	1.2	2.6	1.5	1.3	42
44	2.1	1.6	1.2	2.3	1.6	1.2	2.2	1.5	1.3	44
46	1.7	1.6	1.2	1.9	1.5	1.2	1.8	1.5	1.1	46
48	1.4	1.5	1.2	1.6	1.5	1.2	1.5	1.4	1.2	48
50	1.1	1.4	1.2	1.3	1.4	1.2	1.2	1.4	1.1	50
52		1.1	1.1		1.3	1.1		1.2	1.2	52
54						1.1			1.1	54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on fully-extended outriggers) (in t)

	24t			7.9m × 8.45m			ISO			
	56.2+8			60.9+8			65+8			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.3	2.1	1.6	3.1	2.2	1.5	3.0	2.2	1.5	32
34	3.3	2.0	1.5	3.0	2.1	1.5	2.9	2.1	1.5	34
36	3.1	1.9	1.4	3.0	1.9	1.4	2.9	2.0	1.4	36
38	3.0	1.8	1.3	3.0	1.9	1.4	2.9	1.9	1.4	38
40	2.9	1.8	1.3	2.9	1.8	1.3	2.8	1.9	1.3	40
42	2.7	1.8	1.3	2.7	1.7	1.3	2.7	1.8	1.3	42
44	2.3	1.7	1.2	2.4	1.7	1.3	2.3	1.8	1.3	44
46	1.9	1.5	1.2	2.0	1.7	1.3	1.9	1.7	1.2	46
48	1.6	1.6	1.2	1.7	1.6	1.2	1.6	1.6	1.2	48
50	1.3	1.5	1.2	1.4	1.5	1.2	1.3	1.6	1.2	50
52		1.4	1.1	1.1	1.6	1.2		1.5	1.1	52
54		1.1	1.1		1.3	1.2		1.2	1.1	54
56			1.1			1.2			1.1	56
58						1.1				58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on fully-extended outriggers) (in t)

	24t						ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.9	2.2		2.6	2.3		2.4	2.3		34
36	2.9	2.0	1.5	2.6	2.1		2.4	2.2		36
38	2.9	2.0	1.4	2.6	2.0	1.5	2.3	2.0	1.5	38
40	2.8	2.0	1.4	2.6	2.0	1.4	2.3	2.0	1.4	40
42	2.8	1.8	1.4	2.5	2.0	1.4	2.3	2.0	1.4	42
44	2.4	1.8	1.4	2.5	1.8	1.4	2.3	1.9	1.4	44
46	2.0	1.8	1.3	2.1	1.8	1.3	2.0	1.9	1.4	46
48	1.7	1.6	1.3	1.8	1.8	1.3	1.7	1.8	1.3	48
50	1.4	1.6	1.3	1.5	1.8	1.3	1.3	1.8	1.3	50
52	1.1	1.6	1.3	1.2	1.6	1.3	1.1	1.7	1.3	52
54		1.4	1.2		1.5	1.3		1.4	1.3	54
56		1.1	1.1		1.2	1.3		1.1	1.3	56
58			1.1			1.2			1.3	58
60						1.1			1.1	60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 11 m (on fully-extended outriggers) (in t)

	12t			7.9m × 8.45m			ISO			
	56.2			60.9			65			
	11						11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.1	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	5.8	5.7	4.2	6.1	5.5	4.1	6.0	5.3	4.0	24
26	4.7	5.3	4.0	5.0	5.4	4.0	5.0	5.2	3.9	26
28	3.8	4.3	3.8	4.1	4.6	3.8	4.1	4.6	3.8	28
30	3.1	3.5	3.7	3.3	3.8	3.7	3.3	3.7	3.6	30
32	2.4	2.8	3.2	2.7	3.1	3.4	2.6	3.0	3.4	32
34	1.9	2.2	2.5	2.1	2.5	2.8	2.1	2.4	2.8	34
36	1.4	1.7	2.0	1.6	2.0	2.2	1.6	1.9	2.2	36
38		1.2	1.5	1.2	1.5	1.7	1.1	1.4	1.7	38
40					1.1	1.3			1.3	40
42										42
44										44
46										46
48										48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m (on fully-extended outriggers) (in t)

	12t			7.9m × 8.45m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	2.9	2.2	1.5	3.1	2.1	1.4	3.0	2.1	1.4	32
34	2.4	2.1	1.4	2.5	2.0	1.4	2.5	2.0	1.5	34
36	1.8	2.0	1.3	2.0	1.9	1.3	2.0	1.9	1.4	36
38	1.4	1.8	1.3	1.6	1.7	1.3	1.5	1.7	1.3	38
40		1.5	1.3	1.2	1.6	1.3	1.1	1.6	1.4	40
42		1.1	1.2		1.3	1.2		1.2	1.3	42
44			1.1			1.2			1.3	44
46										46
48										48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on fully-extended outriggers) (in t)

	12t						ISO			
	56.2+8			60.9+8			65+8			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.2	2.1	1.6	3.1	2.2	1.5	3.0	2.2	1.5	32
34	2.6	2.0	1.5	2.7	2.1	1.5	2.6	2.1	1.5	34
36	2.1	1.9	1.4	2.2	1.9	1.4	2.1	2.0	1.4	36
38	1.6	1.8	1.3	1.8	1.9	1.4	1.6	1.9	1.4	38
40	1.2	1.8	1.3	1.3	1.8	1.3	1.2	1.9	1.3	40
42		1.5	1.3		1.7	1.3		1.6	1.3	42
44		1.2	1.2		1.3	1.3		1.2	1.3	44
46			1.2			1.3			1.2	46
48						1.1			1.1	48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-3 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on fully-extended outriggers) (in t)

	12t			7.9m × 8.45m			ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
					t					
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.7	2.2		2.6	2.3		2.4	2.3		34
36	2.2	2.0	1.5	2.3	2.1		2.2	2.2		36
38	1.8	2.0	1.4	1.9	2.0	1.5	1.7	2.0	1.5	38
40	1.4	2.0	1.4	1.4	2.0	1.4	1.3	2.0	1.4	40
42		1.8	1.4	1.1	2.0	1.4		1.9	1.4	42
44		1.5	1.4		1.6	1.4		1.5	1.4	44
46		1.1	1.3		1.2	1.3		1.1	1.4	46
48			1.3			1.3			1.3	48
50			1.1			1.2			1.2	50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
%	22221			22222			33333			%
t	11t									t
m/s	≤9									m/s

Continued Table 3-4 Lifting load table for jib of 11 m (on half-extended outriggers) (in t)

	53t			7.9m × 6.3m			ISO			
	56.2			60.9			65			
	11						11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	7.5	5.7	4.2	7.2	5.5	4.1	7.0	5.3	4.0	24
26	7.3	5.5	4.0	7.1	5.4	4.0	6.8	5.2	3.9	26
28	7.1	5.3	3.8	6.8	5.2	3.8	6.6	5.1	3.8	28
30	6.9	5.2	3.7	6.7	5.1	3.7	6.5	4.9	3.6	30
32	6.7	5.1	3.6	6.5	5.0	3.6	6.3	4.8	3.5	32
34	6.4	4.9	3.4	6.4	4.9	3.5	6.2	4.7	3.4	34
36	6.3	4.7	3.3	6.2	4.8	3.4	5.8	4.7	3.3	36
38	6.0	4.3	3.2	6.0	4.6	3.2	5.4	4.6	3.2	38
40	5.3	4.2	3.1	5.6	4.4	3.1	5.0	4.4	3.1	40
42	4.7	4.1	3.1	5.0	4.2	3.0	4.6	4.3	3.0	42
44	4.2	4.0	3.0	4.4	4.1	3.1	4.2	4.2	3.0	44
46	3.7	3.8	2.9	4.0	4.0	3.0	3.9	3.9	2.9	46
48		3.5	2.9	3.5	3.7	2.9	3.5	3.7	2.9	48
50		3.0	2.8		3.3	2.8	3.1	3.3	2.8	50
52			2.6		2.9	2.9	2.7	2.9	2.8	52
54			2.4			2.6		2.5	2.6	54
56						2.3			2.3	56
58									2.0	58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m (on half-extended outriggers) (in t)

	53t			7.9m × 6.3m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.2	2.0	1.5	34
36	2.8	2.0	1.3	3.0	1.9	1.3	3.0	1.9	1.4	36
38	2.7	1.8	1.3	2.8	1.7	1.3	2.9	1.7	1.3	38
40	2.6	1.7	1.3	2.7	1.6	1.3	2.8	1.6	1.4	40
42	2.5	1.6	1.2	2.6	1.6	1.2	2.6	1.5	1.3	42
44	2.3	1.6	1.2	2.4	1.6	1.2	2.5	1.5	1.3	44
46	2.2	1.6	1.2	2.3	1.5	1.2	2.4	1.5	1.1	46
48	2.1	1.5	1.2	2.2	1.5	1.2	2.3	1.4	1.2	48
50	2.0	1.5	1.2	2.1	1.4	1.2	2.1	1.4	1.1	50
52		1.4	1.1	1.9	1.4	1.1	2.0	1.4	1.2	52
54		1.4	1.1	1.9	1.4	1.1	2.1	1.4	1.1	54
56			1.0		1.3	1.1	2.0	1.4	1.1	56
58			1.0		1.1	1.1		1.3	1.1	58
60						1.0		1.3	1.0	60
62						1.0			1.0	62
64									1.0	64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
m/s	≤9									m/s

Continued Table 3-4 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on half-extended outriggers) (in t)

	53t			7.9m × 6.3m			ISO			
	56.2+8			60.9+8			65+8			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.3	2.1	1.6	3.1	2.2	1.5	3.0	2.2	1.5	32
34	3.3	2.0	1.5	3.0	2.1	1.5	2.9	2.1	1.5	34
36	3.1	1.9	1.4	3.0	1.9	1.4	2.9	2.0	1.4	36
38	3.0	1.8	1.3	3.0	1.9	1.4	2.9	1.9	1.4	38
40	2.9	1.8	1.3	2.9	1.8	1.3	2.8	1.9	1.3	40
42	2.7	1.8	1.3	2.7	1.7	1.3	2.8	1.8	1.3	42
44	2.5	1.7	1.2	2.6	1.7	1.3	2.8	1.8	1.3	44
46	2.3	1.5	1.2	2.5	1.7	1.3	2.7	1.7	1.2	46
48	2.2	1.6	1.2	2.4	1.6	1.2	2.6	1.6	1.2	48
50	2.1	1.5	1.2	2.2	1.5	1.2	2.5	1.6	1.2	50
52	2.0	1.4	1.1	2.1	1.6	1.2	2.4	1.6	1.1	52
54	2.1	1.5	1.1	2.1	1.5	1.2	2.2	1.6	1.1	54
56	2.0	1.4	1.1	2.1	1.4	1.2	2.1	1.4	1.1	56
58		1.3	1.0	2.0	1.5	1.1	2.0	1.4	1.1	58
60		1.2	1.0	1.8	1.4	1.1	1.8	1.4	1.1	60
62			1.0		1.3	1.0	1.7	1.3	1.0	62
64						1.0		1.3	1.0	64
66									1.0	66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on half-extended outriggers) (in t)

	53t			7.9m × 6.3m			ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.9	2.2		2.6	2.3		2.4	2.3		34
36	2.9	2.0	1.5	2.6	2.1		2.4	2.2		36
38	2.9	2.0	1.4	2.6	2.0	1.5	2.3	2.0	1.5	38
40	2.8	2.0	1.4	2.6	2.0	1.4	2.3	2.0	1.4	40
42	2.8	1.8	1.4	2.5	2.0	1.4	2.3	2.0	1.4	42
44	2.7	1.8	1.4	2.5	1.8	1.4	2.3	1.9	1.4	44
46	2.5	1.8	1.3	2.5	1.8	1.3	2.2	1.9	1.4	46
48	2.5	1.6	1.3	2.4	1.8	1.3	2.2	1.8	1.3	48
50	2.5	1.6	1.3	2.4	1.8	1.3	2.2	1.8	1.3	50
52	2.3	1.6	1.3	2.3	1.6	1.3	2.1	1.7	1.3	52
54	2.2	1.5	1.2	2.2	1.6	1.3	2.0	1.6	1.3	54
56	2.1	1.5	1.1	2.1	1.5	1.3	1.9	1.6	1.3	56
58	2.1	1.5	1.1	1.8	1.5	1.2	1.4	1.6	1.3	58
60	2.0	1.4	1.1	1.8	1.5	1.1	1.3	1.6	1.3	60
62	1.7	1.4	1.1	1.7	1.5	1.1		1.2	1.2	62
64		1.4	1.1		1.4	1.1			1.0	64
66			1.1			1.1				66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 11 m (on half-extended outriggers) (in t)

	36t			7.9m × 6.3m			ISO			
	56.2			60.9			65			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	7.5	5.7	4.2	7.2	5.5	4.1	7.0	5.3	4.0	24
26	7.3	5.5	4.0	7.1	5.4	4.0	6.8	5.2	3.9	26
28	7.1	5.3	3.8	6.8	5.2	3.8	6.6	5.1	3.8	28
30	6.2	5.2	3.7	6.5	5.1	3.7	6.4	4.9	3.6	30
32	5.3	5.1	3.6	5.6	5.0	3.6	5.5	4.8	3.5	32
34	4.6	4.9	3.4	4.9	4.9	3.5	4.8	4.7	3.4	34
36	4.0	4.3	3.3	4.2	4.5	3.4	4.1	4.5	3.3	36
38	3.4	3.7	3.2	3.6	3.9	3.2	3.6	3.9	3.2	38
40	2.9	3.1	3.1	3.1	3.4	3.1	3.1	3.3	3.1	40
42	2.4	2.7	2.8	2.7	2.9	3.0	2.6	2.9	3.0	42
44	2.0	2.2	2.4	2.2	2.5	2.6	2.2	2.4	2.6	44
46	1.6	1.8	2.0	1.9	2.1	2.2	1.8	2.0	2.2	46
48		1.5	1.6	1.5	1.7	1.9	1.5	1.7	1.8	48
50		1.1	1.2		1.4	1.5	1.2	1.3	1.5	50
52					1.1	1.2		1.0	1.2	52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m (on half-extended outriggers) (in t)

	36t			7.9m × 6.3m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.2	2.0	1.5	34
36	2.8	2.0	1.3	3.0	1.9	1.3	3.0	1.9	1.4	36
38	2.7	1.8	1.3	2.8	1.7	1.3	2.9	1.7	1.3	38
40	2.6	1.7	1.3	2.7	1.6	1.3	2.8	1.6	1.4	40
42	2.5	1.6	1.2	2.6	1.6	1.2	2.6	1.5	1.3	42
44	2.3	1.6	1.2	2.4	1.6	1.2	2.5	1.5	1.3	44
46	2.1	1.6	1.2	2.2	1.5	1.2	2.2	1.5	1.1	46
48	1.7	1.5	1.2	1.9	1.5	1.2	1.8	1.4	1.2	48
50	1.4	1.5	1.2	1.6	1.4	1.2	1.5	1.4	1.1	50
52		1.4	1.1	1.3	1.4	1.1	1.2	1.4	1.2	52
54		1.1	1.1	1.0	1.3	1.1		1.2	1.1	54
56			1.0		1.0	1.1		1.0	1.1	56
58						1.0				58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on half-extended outriggers) (in t)

	36t			7.9m × 6.3m			ISO			
	56.2+8			60.9+8			65+8			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4	1.6	3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.3	2.1	1.6	3.1	2.2	1.5	3.0	2.2	1.5	32
34	3.3	2.0	1.5	3.0	2.1	1.5	2.9	2.1	1.5	34
36	3.1	1.9	1.4	3.0	1.9	1.4	2.9	2.0	1.4	36
38	3.0	1.8	1.3	3.0	1.9	1.4	2.9	1.9	1.4	38
40	2.9	1.8	1.3	2.9	1.8	1.3	2.8	1.9	1.3	40
42	2.7	1.8	1.3	2.7	1.7	1.3	2.8	1.8	1.3	42
44	2.5	1.7	1.2	2.6	1.7	1.3	2.6	1.8	1.3	44
46	2.2	1.5	1.2	2.4	1.7	1.3	2.3	1.7	1.2	46
48	1.9	1.6	1.2	2.0	1.6	1.2	1.9	1.6	1.2	48
50	1.6	1.5	1.2	1.7	1.5	1.2	1.6	1.6	1.2	50
52	1.3	1.4	1.1	1.4	1.6	1.2	1.3	1.6	1.1	52
54	1.0	1.4	1.1	1.1	1.5	1.2	1.0	1.5	1.1	54
56		1.1	1.1		1.3	1.2		1.2	1.1	56
58			1.0		1.0	1.1			1.1	58
60						1.1			1.0	60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on half-extended outriggers) (in t)

	36t			7.9m × 6.3m			ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.9	2.2		2.6	2.3		2.4	2.3		34
36	2.9	2.0	1.5	2.6	2.1		2.4	2.2		36
38	2.9	2.0	1.4	2.6	2.0	1.5	2.3	2.0	1.5	38
40	2.8	2.0	1.4	2.6	2.0	1.4	2.3	2.0	1.4	40
42	2.8	1.8	1.4	2.5	2.0	1.4	2.3	2.0	1.4	42
44	2.7	1.8	1.4	2.5	1.8	1.4	2.3	1.9	1.4	44
46	2.3	1.8	1.3	2.4	1.8	1.3	2.2	1.9	1.4	46
48	2.0	1.6	1.3	2.1	1.8	1.3	2.0	1.8	1.3	48
50	1.7	1.6	1.3	1.8	1.8	1.3	1.6	1.8	1.3	50
52	1.4	1.6	1.3	1.5	1.6	1.3	1.3	1.7	1.3	52
54	1.1	1.5	1.2	1.2	1.6	1.3	1.1	1.6	1.3	54
56		1.4	1.1		1.5	1.3		1.4	1.3	56
58		1.1	1.1		1.2	1.2		1.1	1.3	58
60			1.1		1.0	1.1			1.3	60
62			1.0			1.1			1.1	62
64										64
66										66
68										68
n	1									n
%	22221			22222			33333			%
t	11t									t
m/s	≤9									m/s

Continued Table 3-4 Lifting load table for jib of 11 m (on half-extended outriggers) (in t)

	24t			7.9m × 6.3m			ISO			
	56.2			60.9			65			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	8.6									16
18	8.3	6.2		7.8			7.4			18
20	8.1	5.9	4.4	7.6	5.7		7.2	5.6		20
22	7.8	5.8	4.3	7.4	5.6	4.3	7.1	5.5	4.3	22
24	6.7	5.7	4.2	7.0	5.5	4.1	6.9	5.3	4.0	24
26	5.6	5.5	4.0	5.8	5.4	4.0	5.8	5.2	3.9	26
28	4.6	5.1	3.8	4.9	5.2	3.8	4.8	5.1	3.8	28
30	3.8	4.3	3.7	4.1	4.5	3.7	4.0	4.5	3.6	30
32	3.1	3.5	3.6	3.4	3.8	3.6	3.3	3.8	3.5	32
34	2.5	2.9	3.2	2.8	3.2	3.5	2.7	3.1	3.4	34
36	2.0	2.4	2.6	2.3	2.6	2.9	2.2	2.6	2.8	36
38	1.6	1.9	2.1	1.8	2.1	2.4	1.8	2.1	2.3	38
40	1.1	1.4	1.6	1.4	1.7	1.9	1.3	1.6	1.9	40
42		1.0	1.2	1.0	1.3	1.5	1.0	1.2	1.4	42
44						1.1			1.1	44
46										46
48										48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m (on half-extended outriggers) (in t)

	24t			7.9m × 6.3m			ISO			
	56.2			60.9			65			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	4.1									18
20	4.0			3.8						20
22	4.0	2.7		3.7			3.4			22
24	4.0	2.6		3.7	2.6		3.4	2.6		24
26	3.9	2.5	1.6	3.6	2.5		3.3	2.5		26
28	3.6	2.4	1.5	3.6	2.3	1.5	3.3	2.3	1.6	28
30	3.4	2.3	1.4	3.5	2.2	1.4	3.3	2.2	1.5	30
32	3.1	2.2	1.5	3.3	2.1	1.4	3.2	2.1	1.4	32
34	3.0	2.1	1.4	3.2	2.0	1.4	3.1	2.0	1.5	34
36	2.5	2.0	1.3	2.7	1.9	1.3	2.6	1.9	1.4	36
38	2.0	1.8	1.3	2.2	1.7	1.3	2.1	1.7	1.3	38
40	1.6	1.7	1.3	1.8	1.6	1.3	1.7	1.6	1.4	40
42	1.2	1.6	1.2	1.4	1.6	1.2	1.3	1.5	1.3	42
44		1.3	1.2	1.1	1.5	1.2	1.0	1.4	1.3	44
46		1.0	1.2		1.1	1.2		1.1	1.1	46
48						1.1			1.1	48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m+an optional insert of 8 m
(on half-extended outriggers) (in t)

	24t			7.9m × 6.3m			ISO			
	56.2+8			60.9+8			65+8			
	11			11			11			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18	3.6									18
20	3.6			3.2						20
22	3.6			3.2			3.1			22
24	3.5	2.6		3.2			3.0			24
26	3.5	2.5		3.2	2.5		3.0			26
28	3.5	2.4		3.1	2.4		3.0	2.4		28
30	3.4	2.2	1.6	3.1	2.3		3.0	2.4		30
32	3.3	2.1	1.6	3.1	2.2	1.5	3.0	2.2	1.5	32
34	3.2	2.0	1.5	3.0	2.1	1.5	2.9	2.1	1.5	34
36	2.7	1.9	1.4	2.8	1.9	1.4	2.7	2.0	1.4	36
38	2.2	1.8	1.3	2.4	1.9	1.4	2.2	1.9	1.4	38
40	1.8	1.8	1.3	1.9	1.8	1.3	1.8	1.9	1.3	40
42	1.4	1.8	1.3	1.5	1.7	1.3	1.4	1.8	1.3	42
44	1.1	1.7	1.2	1.2	1.7	1.3	1.1	1.7	1.3	44
46		1.3	1.2		1.5	1.3		1.4	1.2	46
48		1.0	1.2		1.1	1.2		1.1	1.2	48
50			1.1			1.2			1.2	50
52						1.0				52
54										54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

Continued Table 3-4 Lifting load table for jib of 18.5 m+an optional insert of 16 m
(on half-extended outriggers) (in t)

	24t			7.9m × 6.3m			ISO			
	56.2+16			60.9+16			65+16			
	18.5			18.5			18.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16										16
18										18
20										20
22	3.0			2.7						22
24	3.0			2.7			2.5			24
26	3.0			2.7			2.5			26
28	3.0			2.7			2.5			28
30	2.9	2.4		2.7	2.4		2.5	2.3		30
32	2.9	2.3		2.6	2.3		2.4	2.3		32
34	2.9	2.2		2.6	2.3		2.4	2.3		34
36	2.8	2.0	1.5	2.6	2.1		2.4	2.2		36
38	2.3	2.0	1.4	2.4	2.0	1.5	2.3	2.0	1.5	38
40	1.9	2.0	1.4	2.0	2.0	1.4	1.9	2.0	1.4	40
42	1.5	1.8	1.4	1.6	2.0	1.4	1.5	2.0	1.4	42
44	1.2	1.8	1.4	1.3	1.8	1.4	1.2	1.9	1.4	44
46		1.6	1.3	1.0	1.7	1.3		1.6	1.4	46
48		1.3	1.3		1.4	1.3		1.3	1.3	48
50		1.0	1.3		1.1	1.3		1.0	1.3	50
52			1.2			1.3			1.3	52
54						1.0			1.0	54
56										56
58										58
60										60
62										62
64										64
66										66
68										68
n	1									n
	22221			22222			33333			
	11t									
	≤9									

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3-2-3 Lifting load tables for independent jib head

Table 3-5 Lifting load table for independent jib head (on fully-extended outriggers) (in t)

					7.9m × 8.45m				ISO	
	56.2	60.9	65	56.2	60.9	65	56.2	60.9	65	
	2.9m									
	53t			36t			24t			
					t					
16	18.0	15.0	12.0	18.0	15.0	12.0	18.0	15.0	12.0	16
18	17.0	14.0	12.0	17.0	14.0	12.0	15.3	14.0	12.0	18
20	15.0	13.4	12.0	15.0	13.4	12.0	12.6	13.0	12.0	20
22	13.0	12.0	11.5	13.0	12.0	11.5	10.5	10.9	10.9	22
24	12.0	12.0	11.0	12.0	12.0	11.0	8.8	9.2	9.2	24
26	12.0	11.6	10.5	10.6	11.0	10.5	7.5	7.9	7.8	26
28	11.0	10.3	9.0	9.2	9.6	9.0	6.3	6.7	6.7	28
30	10.0	9.2	8.0	8.1	8.4	8.0	5.4	5.7	5.7	30
32	9.5	8.2	6.9	7.0	7.4	6.9	4.5	4.9	4.9	32
34	8.5	8.0	6.8	6.2	6.5	6.5	3.8	4.2	4.2	34
36	8.0	7.5	6.2	5.4	5.7	5.7	3.2	3.5	3.5	36
38	7.4	6.8	5.7	4.7	5.1	5.0	2.6	3.0	3.0	38
40	6.7	6.3	5.4	4.1	4.5	4.4	2.1	2.5	2.5	40
42		6.2	5.1		3.9	3.9		2.1	2.0	42
44		5.3	4.6		3.4	3.4		1.7	1.6	44
46			4.4			3.0			1.3	46
48										48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
n	2									n
%	22221			22222			33333			%
t	75 t									t
m/s	≤9									m/s

Continued Table 3-5 Lifting load table for independent jib head (on fully-extended outriggers) (in t)

					7.9m × 8.45m				ISO	
	56.2	60.9	65	56.2	60.9	65	56.2	60.9	65	
	2.9m									
	12t									
16	13.0	13.5	12.0							16
18	10.3	10.7	10.7							18
20	8.2	8.6	8.6							20
22	6.6	7.0	7.0							22
24	5.3	5.7	5.7							24
26	4.3	4.7	4.6							26
28	3.4	3.8	3.8							28
30	2.7	3.0	3.0							30
32	2.0	2.4	2.4							32
34	1.5	1.8	1.8							34
36		1.4	1.3							36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
n	2									n
	22221			22222			33333			
	75 t									
	≤9									

Table 3-6 Lifting load table for independent jib head (on half-extended outriggers) (in t)

					7.9m × 6.3m				ISO	
	56.2	60.9	65	56.2	60.9	65	56.2	60.9	65	
	2.9m									
	53t			36t			24t			
					t					
16	18.0	15.0	12.0	18.0	15.0	12.0	14.0	14.4	12.0	16
18	17.0	14.0	12.0	15.6	14.0	12.0	11.3	11.7	11.7	18
20	15.0	13.4	12.0	13.0	13.4	12.0	9.2	9.6	9.6	20
22	13.0	12.0	11.5	10.9	11.3	11.3	7.6	7.9	7.9	22
24	12.0	12.0	11.0	9.3	9.7	9.6	6.2	6.6	6.6	24
26	11.8	11.6	10.5	7.9	8.3	8.3	5.1	5.5	5.5	26
28	10.4	10.3	9.0	6.8	7.1	7.1	4.2	4.6	4.6	28
30	9.1	9.2	8.0	5.8	6.2	6.1	3.4	3.8	3.8	30
32	8.1	8.2	6.9	5.0	5.3	5.3	2.8	3.1	3.1	32
34	7.1	7.5	6.8	4.2	4.6	4.6	2.2	2.5	2.5	34
36	6.3	6.7	6.2	3.6	4.0	3.9	1.7	2.0	2.0	36
38	5.6	6.0	5.7	3.0	3.4	3.4	1.2	1.6	1.6	38
40	5.0	5.3	5.3	2.5	2.9	2.9		1.2	1.2	40
42		4.7	4.7		2.4	2.4				42
44		4.2	4.2		2.0	2.0				44
46			3.7			1.6				46
48										48
50										50
52										52
54										54
56										56
58										58
60										60
62										62
n	2									n
	22221			22222			33333			
	75 t									
	≤9									