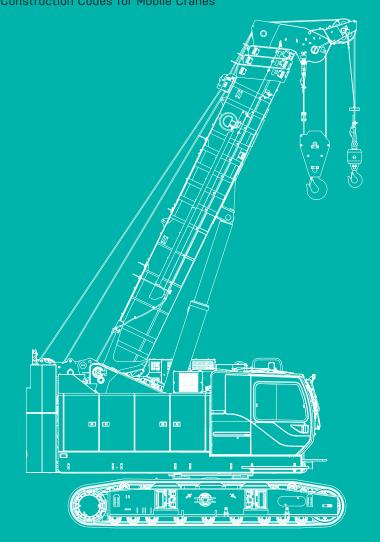
Telescopic Boom Crawler Crane

TK550GSB

Model : TK550G-2

Max. Lifting Capacity : **55 t x 3.0 m** Telescopic Boom Length : **7.7 m to 20.9 m** Comply with Japanese Construction Codes for Mobile Cranes





TK550GSB Contents

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5	GENERAL DIMENSIONS
7	WORKING RANGES
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11	LIFTING CAPACITIES
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SPECIFICATIONS



Power Plant

Model: Mercedes-Benz E9H01 (Daimler OM936LA) Type: Water cooled 4 cycle, 6 cylinder, direct injection diesel with turbocharger, intercooler Complies with NRMM (Europe) Stage V Displacement: 7.697 L Rated power: 207 kW/2,000 min-1 Max. torque: 1,150 N·m/1,200 to 1,600 min-1 Cooling system: Water-cooled Starter: 24 V-3.9 kW Radiator: Corrugated type core, thermostatically controlled Air cleaner: Dry type with replaceable paper element Throttle: Twist grip type hand throttle, electrically actuated Fuel filter: Replaceable paper element Batteries: Two 12 V x 136 Ah/5 HR capacity batteries, series connected Fuel tank capacity: 400 L

AdBlue® tank usable volume: 40 L



Hydraulic System

Main pumps: 4-pumps (2 variable plunger pumps + 2 gear pumps) + 4-pumps (2 variable plunger pumps + 2 gear pumps)
Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.
Cooling: Oil-to-air heat exchanger (plate-fin type)
Filtration: Full-flow and bypass type with replaceable element
Max. relief valve pressure:
Load hoist and propel system: 31.9 MPa
Swing system (free): 20.6 MPa
Swing system (brake): 20.6 MPa

Control system: 6.6 MPa

2nd/3rd boom telescope (extend): 20.6 MPa

2nd/3rd boom telescope (retract): 20.6 MPa

Top boom telescope (extend): 17.6 MPa

Top boom telescope (retract): 20.6 MPa

Boom hoist (lower): 11.8 MPa

Boom hoist (raise): 27.4 MPa Oil Quantity (at the reference level): 680 L



Load Hoisting System

Hydraulic motor drive with spur gear reduction with auto-brake, independent 2 winches, with third winch (option)

Negative brake: A spring-set, hydraulically released multipledisk brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is standard) **Drum lock:** External ratchet for locking drum **Drums:**

Main drum: 426 mm P.C.D x 431 mm wide drum, grooved for 20 mm wire rope. Rope capacity is 120 m working length and 193 m storage length.

Aux. drum: 426 mm P.C.D x 431 mm wide drum, grooved for 20 mm wire rope. Rope capacity is 60 m working length and

193 m storage length.

Third drum with free fall (option): 424 mm P.C.D x 446 mm wide drum, grooved for 18 mm wire rope. Rope capacity is 120 m working length and 261 m storage length.

Third drum without free fall (option): 360 mm P.C.D x 419 mm wide drum, grooved for 18 mm wire rope. Rope capacity is 120 m working length and 205 m storage length.

Diameter of wire rope

Main winch: 20 mm x 120 m

Aux. winch: 20 mm x 60 m

Third winch with free fall: 18 mm x 120 m

Third winch without free fall: 18 mm x 120 m

Line speed* Main winch: 110 m/min

Aux. winch: 110 m/min

Third winch with free fall: 110 m/min

Third winch without free fall: 87 m/min

Max. line pull** (Referential performance)

Main winch: 109.8 kN {11.2 tf}

Aux. winch: 109.8 kN {11.2 tf}

Third winch with free fall: 110.3 kN {11.2 tf}

Third winch without free fall: 107.0 kN {10.9 tf}

Rated line pull:

Main winch: 58.8 kN {6.0 tf}

Aux. winch: 58.8 kN {6.0 tf}

Third winch with free fall: 49.0 kN {5.0 tf}

Third winch without free fall: 49.0 kN {5.0 tf}

*Single line on first drum layer

**Max. line pull is not based on wire rope strength



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducer, the swing system provides 360° rotation. **Swing parking brakes:** A spring-set, hydraulically released multiple-disk brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation Swing speed: 2.3 min⁻¹



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level. **Counterweight:** 13.2 ton



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray.



Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box.

Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 760 mm wide each crawler Max. gradeability: 30%



Weight

Including upper and lower machine, 17.2 ton counterweight, boom, hook, and other accessories.

Weight: 54.7 ton

Ground pressure: 74.7 kPa



Attachment

Boom:

Four section, box construction, 2nd and 3rd simultaneously telescoping, 4th independently telescoping.

Boom length

	Min. Length	Max. Length	
Telescopic Boom	7.7 m	20.9 m	

Main Specifications (Model: TK550G-2)

Crane Performance				
	7.7 m boom	55.0 t x 3.0 m (10-lines)		
	12.1 m boom	28.0 t x 5.0 m (5-lines)		
Max. Rated Load	16.5 m boom	22.0 t x 6.0 m (4-lines)		
	20.9 m boom	14.0 t x 6.5 m (4-lines)		
	Aux. sheave (Max.)	6.0 t (1-line)		
Main Boom Lengt	th	7.7 m to 20.9 m		
Main Hook Max.	Hoist Height	20.7 m		
Main Hook Max.	Operating Radius	18.6 m		
Winch (Main / A	ux.)			
Line Speed (1st l	ayer)	110 m/min		
Rated Line Pull (S	Single line)	58.8 kN {6.0 tf}		
Max. Line Pull (Refer	ential performance)*2	109.8 kN {11.2 tf}		
Wire Rope Diame	ter	20 mm		
Wire Rope Length	ı	120 m (Main), 60 m (Aux.)		
Brake Type (Free	fall)	Wet-type multiple disc brake		
Winch (Third [wi	th free fall]*1)			
Line Speed (1st l	ayer)	110 m/min		
Rated Line Pull (S	Single line)	49.0 kN {5.0 tf}		
Max. Line Pull (Refer	ential performance)*2	110.3 kN {11.2 tf}		
Wire Rope Diame	ter	18 mm		
Wire Rope Length	ı	120 m		
Winch (Third [wi	thout free fall]*1)			
Line Speed (1st l	ayer)	87 m/min		
Rated Line Pull (S	Single line)	49.0 kN {5.0 tf}		
Max. Line Pull (Refer	ential performance)*2	107.0 kN {10.9 tf}		
Wire Rope Diame	ter	18 mm		
Wire Rope Length	ו	120 m		

Working Speed	
Swing Speed	2.3 min ⁻¹ {rpm}
Travel Speed	2.1 / 1.4 (high / low select) km/h
Boom Telescoping Speed	79 / 13.2 sec/m
Boom Raising Speed	62 sec / 0 to 78.5 degrees
Power Plant	
Model	Mercedes-Benz E9H01 (Daimler OM936LA)
Engine Output	207 kW / 2,000 min ⁻¹
Fuel Tank	400 L
AdBlue® Tank Usable Volume	40 L
Hydraulic System	
Main Pumps	4 pumps (2 variable plunger pumps + 2 gear pumps) + 4 pumps (2 variable
	plunger pumps + 2 gear pumps)
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Max. Pressure Oil Quantity (at the reference level)	
	31.9 MPa {325 kgf/cm ² }
Oil Quantity (at the reference level)	31.9 MPa {325 kgf/cm ² }
Oil Quantity (at the reference level)	31.9 MPa {325 kgf/cm ² } 680 L
Oil Quantity (at the reference level) Self-Removal Device (Option)	31.9 MPa {325 kgf/cm ² } 680 L
Oil Quantity (at the reference level) Self-Removal Device (Option) Weight	31.9 MPa {325 kgf/cm ² } 680 L Counterweight
Oil Quantity (at the reference level) Self-Removal Device (Option) Weight Operating Weight	31.9 MPa {325 kgf/cm ² } 680 L Counterweight 54.7 t

Units are SI units. { } indicates conventional units.

Line speeds in table are for light loads. Line speed varies with load.

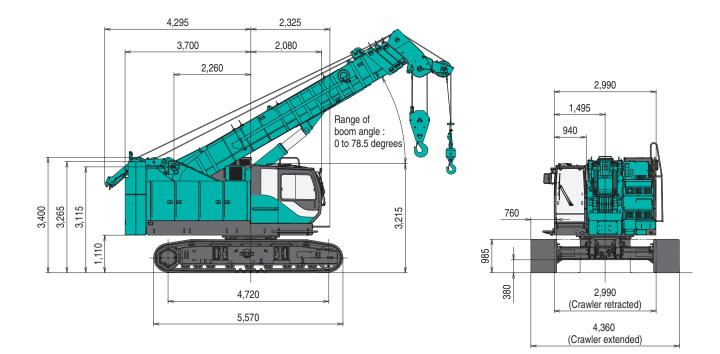
*1 Third winch is optional

*2 Max. line pull is not based on wire rope strength.

*3 With third winch and other optional parts / attachments.

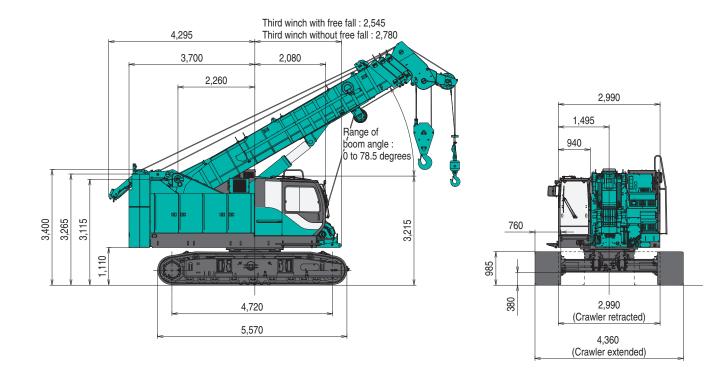
GENERAL DIMENSIONS

Counterweight Self-Removal Device Retracted



With Third Drum (Option) Counterweight Self-Removal Device Retracted

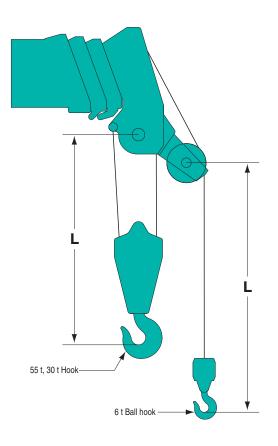
(Unit: mm)



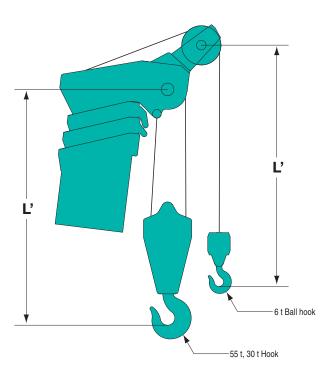
(Unit: mm)

Limit of Hook Lifting

Boom Horizontal



Boom at Maximum Angle



Auxiliary Sheave (Single Sheave)

Hook	L	Ľ
55 t	2,350 mm	2,645 mm
30 t (4-lines)	2,280 mm	2,570 mm
30 t (5-lines)	2,920 mm	3,215 mm
30 t (Third 5-lines)	3,020 mm	3,315 mm
6 t Ball hook	2,980 mm	2,880 mm

Auxiliary Sheave (Double Sheave) (Option)

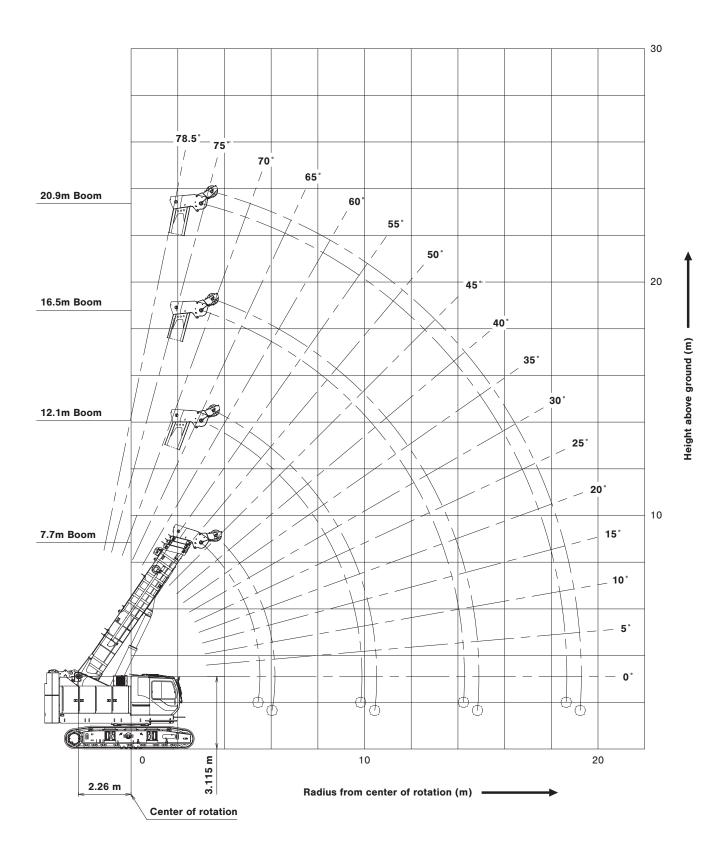
Hook	L	Ľ
55 t	2,350 mm	2,645 mm
30 t (4-lines)	2,280 mm	2,570 mm
30 t (5-lines)	2,920 mm	3,215 mm
30 t (Third 5-lines)	3,020 mm	3,315 mm
6 t Ball hook	3,010 mm	2,910 mm

Auxiliary Sheave (Tilt Double Sheave) (Option)

Hook	L	Ľ
55 t	2,350 mm	2,645 mm
30 t (4-lines)	2,280 mm	2,570 mm
30 t (5-lines)	2,920 mm	3,215 mm
30 t (Third 5-lines)	3,020 mm	3,315 mm
6 t Ball hook (Offset Angle : 10.5°)	3,105 mm	2,910 mm
6 t Ball hook (Offset Angle : -32.8°)	3,010 mm	2,910 mm

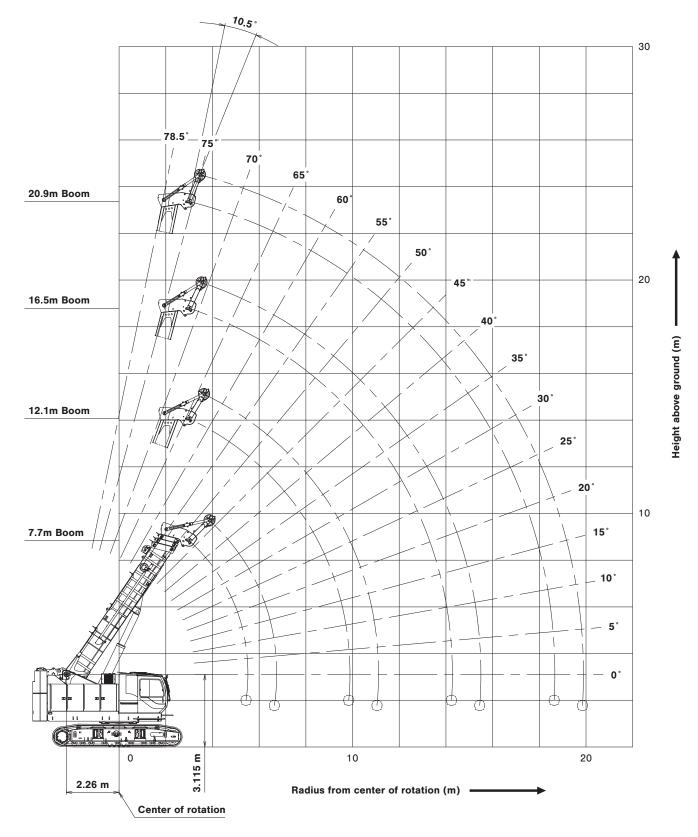
WORKING RANGES

Main boom



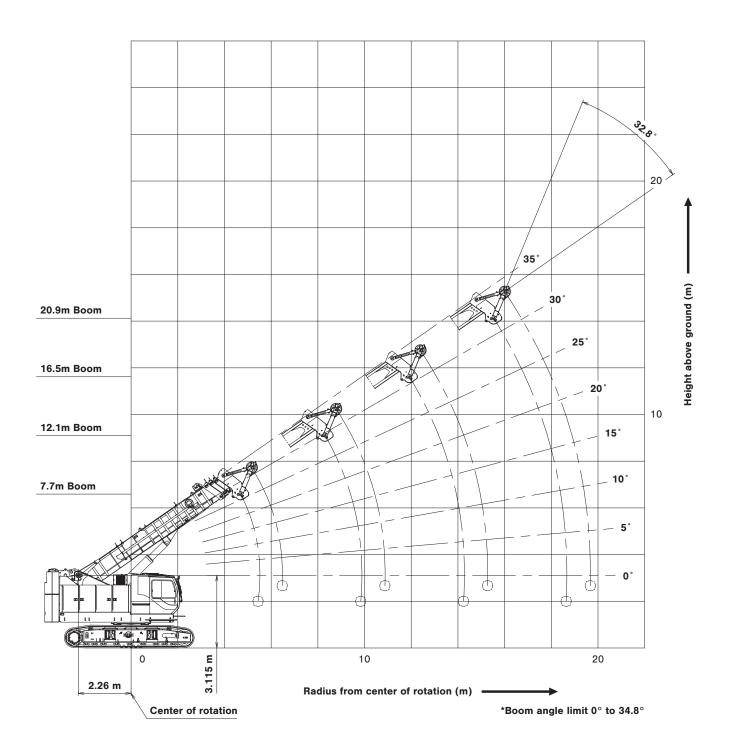
7 TK550G-2(SB)

Tilt double sheave auxiliary sheave (Offset angle 10.5 degrees)



WORKING RANGES

Tilt double sheave auxiliary sheave (Offset angle -32.8 degrees)



SUPPLEMENTAL DATA

1. Ratings according to Japanese construction codes for mobile cranes.

The crane rated loads are including the weight of hooks and other lifting gears.

Values marked with _____ are decided according to strength of the machine.

Other values are decided according to stability of the machine.

Rated loads are applicable to any directions, all around 360 degrees.

Type of hook	55 t	30 t	6 t	6 t Lightweight type
Weight	550 kg	350 kg	160 kg	60 kg

When uses of the lightweight hook, it may not be lowered depending on the boom length, boom angle and/or the hook height.

In case of the hook is not lowered, add the suitable weights adjusted up to the weight of the ball hook.

- 2. Even when it is intended to lift a crane rated load, the operator shall be responsible for ensuring safety depending on the actual condition such as reducing of the load and reduction of a working speed, if applicable conditions such as the influence of wind, ground condition, working speed and others are likely to cause safety problems.
- A working radius shall mean a horizontal distance from the center line of center of rotation of the crane to the center of gravity of the load to be lifted. The working radius is based on an actual value with the

factor of defection of the boom taken into considerations. Thus, be sure to conduct the crane work while referencing the working radius.

- 4. Be sure to keep the crawler frame extended up to the specified position during execution of the crane work.
- The rated capacity of the auxiliary sheave shall be equal to the rated capacity of the boom minus the weight of the hook used for the main lift, and shall be limited to 6,000 kg.

- As to the crane rated loads of third drum, the crane rated loads of the boom applies, but the limit shall be (a single part of line) 5,000 kg.
- 7. When the boom length is in excess of the specified value, conduct the crane work under a rated crane load of the boom of the specified length or a boom of one stage above, whichever is smaller.
- Where no value is given in the columns of the crane rated loads chart, no execution of work is allowed.
 (If the boom should be inclined to an angle smaller than the minimum boom angle, be fully careful, since the basic machine may overturn with no load.)
- 9. The minimum number of parts line of the main hook in the main winch lifting is decided within a range not to exceed the value of 6,000 kg per single wire rope.

The standard numbers of parts line by boom length are as shown below.

Boom length : m	7.7	12.1	16.5	20.9
Hook : t	55	30		
Number of parts line	10	5	4	4

10. The minimum number of part lines of the main hook in the third drum winch lifting is decided within a range not to exceed the value of 5,000 kg per single wire rope. The standard numbers of parts line by boom length are as shown below.

Boom length : m	7.7	12.1	16.5	20.9
Hook : t	55		3	0
Number of parts line	10	6	5	4

11. To prevent a load being lifted and carried from falling due to wrong operation or others, do not perform a free fall work in the crane work.

LIFTING CAPACITIES

Crane Rated Load Chart

Counterweight: 13.2 t

				(Un	it: metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0	55.0	28.0	22.0	14.0	3.0
3.5	50.0	28.0	22.0	14.0	3.5
4.0	42.5	28.0	22.0	14.0	4.0
4.5	36.5	28.0	22.0	14.0	4.5
5.0	31.6	28.0	22.0	14.0	5.0
5.5	16.9	26.6	22.0	14.0	5.5
6.0		23.1	22.0	14.0	6.0
6.5		20.3	20.1	14.0	6.5
7.0		18.0	17.8	13.5	7.0
7.5		16.1	16.0	13.0	7.5
8.0		14.6	14.4	12.5	8.0
8.5		13.3	13.1	12.0	8.5
9.0		12.3	12.0	11.5	9.0
9.5		11.2	11.0	11.0	9.5
10.0		9.8m/9.5	10.1	10.7	10.0
11.0			8.7	9.2	11.0
12.0			7.5	8.0	12.0
13.0			6.6	7.1	13.0
14.0			5.8	6.2	14.0
15.0			14.2m/5.6	5.6	15.0
16.0				5.0	16.0
17.0				4.5	17.0
18.0				4.0	18.0
19.0				18.6m/3.8	19.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0 °	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used.

Please refer rated chart in operator's cabin.

Crane Rated Load Chart

Counterweight: 8.0 t (Option) Special type boom rated load

				(1	Jnit: metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0	55.0	28.0	22.0	14.0	3.0
3.5	50.0	28.0	22.0	14.0	3.5
4.0	40.4	28.0	22.0	14.0	4.0
4.5	32.2	28.0	22.0	14.0	4.5
5.0	26.7	26.4	22.0	14.0	5.0
5.5	16.9	22.4	22.0	14.0	5.5
6.0		19.3	19.1	14.0	6.0
6.5		16.9	16.7	14.0	6.5
7.0		15.0	14.8	13.5	7.0
7.5		13.3	13.2	13.0	7.5
8.0		12.0	11.9	12.5	8.0
8.5		10.9	10.8	11.3	8.5
9.0		9.9	9.8	10.4	9.0
9.5		9.1	8.9	9.5	9.5
10.0		9.8m/8.6	8.2	8.7	10.0
11.0			7.0	7.5	11.0
12.0			6.0	6.5	12.0
13.0			5.2	5.7	13.0
14.0			4.5	5.0	14.0
15.0			14.2m/4.3	4.4	15.0
16.0				3.9	16.0
17.0				3.4	17.0
18.0				3.1	18.0
19.0				18.6m/2.8	19.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used.

Please refer rated chart in operator's cabin.

Crane Rated Load Chart

Without Counterweight (Option) Special type boom rated load

			(Unit:	metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)
3.0	18.0	18.0	14.0	3.0
3.5	18.0	18.0	14.0	3.5
4.0	18.0	18.0	14.0	4.0
4.5	18.0	18.0	14.0	4.5
5.0	16.3	16.1	14.0	5.0
5.5	13.7	13.5	13.4	5.5
6.0		11.5	11.4	6.0
6.5		9.9	9.9	6.5
7.0		8.7	8.7	7.0
7.5		7.6	7.7	7.5
8.0		6.8	6.9	8.0
8.5		6.0	6.1	8.5
9.0		5.4	5.5	9.0
9.5		4.8	4.9	9.5
10.0		9.8m/4.5	4.5	10.0
11.0			3.7	11.0
12.0			3.1	12.0
13.0			2.6	13.0
14.0			2.1	14.0
15.0			14.2m/2.0	15.0
Max. boom angle	56°	70°	75°	Max. boom angle
Min. boom angle	0°	0°	0°	Min. boom angle

Lifting capacities may vary depending on hook used.

Please refer rated chart in operator's cabin.

	Aux. Sheave Ra (With 55t Ma	(Offset A Special type boor	eight: 13.2 t ingle: 10.5°) m rated load t: metric ton)		
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.7m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	6.0	7.0
8.0		6.0	6.0	6.0	8.0
9.0		6.0	6.0	6.0	9.0
10.0		6.0	6.0	6.0	10.0
11.0		6.0	6.0	6.0	11.0
12.0		11.3m/6.0	6.0	6.0	12.0
13.0			6.0	6.0	13.0
14.0			5.2	5.7	14.0
15.0			4.5	5.0	15.0
16.0			15.7m/4.1	4.4	16.0
17.0				3.9	17.0
18.0				3.5	18.0
19.0				3.1	19.0
20.0				2.7	20.0
21.0				20.1m/2.7	21.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

LIFTING CAPACITIES

Aux. Sheave Rated Loads (Tilt Double Sheave) (With 30t Main Hook Block)

Counterweight: 13.2 t (Offset Angle: 10.5°)

Special type boom rated load

	、	(Unit:	metric ton)		
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.7m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	6.0	7.0
8.0		6.0	6.0	6.0	8.0
9.0		6.0	6.0	6.0	9.0
10.0		6.0	6.0	6.0	10.0
11.0		6.0	6.0	6.0	11.0
12.0		11.3m/6.0	6.0	6.0	12.0
13.0			6.0	6.0	13.0
14.0			5.4	5.9	14.0
15.0			4.7	5.2	15.0
16.0			15.7m/4.3	4.6	16.0
17.0				4.1	17.0
18.0				3.7	18.0
19.0				3.3	19.0
20.0				2.9	20.0
21.0				20.1m/2.9	21.0
Max. boom angle		70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Loads (Tilt Double Sheave) (Without Main Hook Block)			Counterweight: 13.2 (Offset Angle: 10.5° Special type boom rated loa (Unit: metric tor	
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.7m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	6.0	7.0
8.0		6.0	6.0	6.0	8.0
9.0		6.0	6.0	6.0	9.0
10.0		6.0	6.0	6.0	10.0
11.0		6.0	6.0	6.0	11.0
12.0		11.3m/6.0	6.0	6.0	12.0
13.0			6.0	6.0	13.0
14.0			5.8	6.0	14.0
15.0			5.1	5.6	15.0
16.0			15.7m/4.7	5.0	16.0
17.0				4.5	17.0
18.0				4.0	18.0
19.0				3.6	19.0
20.0				3.3	20.0
21.0				20.1m/3.2	21.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:



Aux. Sheave Rated Loads (Tilt Double Sheave) (With 55t Main Hook Block)

Counterweight: 8.0 t (Offset Angle: 10.5°)

Special type boom rated load

(,					metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.7m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	6.0	7.0
8.0		6.0	6.0	6.0	8.0
9.0		6.0	6.0	6.0	9.0
10.0		6.0	6.0	6.0	10.0
11.0		6.0	6.0	6.0	11.0
12.0		11.3m/6.0	5.4	5.9	12.0
13.0			4.6	5.1	13.0
14.0			3.9	4.4	14.0
15.0			3.4	3.8	15.0
16.0			15.7m/3.0	3.3	16.0
17.0				2.9	17.0
18.0				2.5	18.0
19.0				2.2	19.0
20.0				1.9	20.0
21.0				20.1m/1.8	21.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Loads (Tilt Double Sheave) (With 30t Main Hook Block)			(Offset An Special type boom	eight: 8.0 t agle: 10.5°) rated load metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.7m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	6.0	7.0
8.0		6.0	6.0	6.0	8.0
9.0		6.0	6.0	6.0	9.0
10.0		6.0	6.0	6.0	10.0
11.0		6.0	6.0	6.0	11.0
12.0		11.3m/6.0	5.6	6.0	12.0
13.0			4.8	5.3	13.0
14.0			4.1	4.6	14.0
15.0			3.6	4.0	15.0
16.0			15.7m/3.2	3.5	16.0
17.0				3.1	17.0
18.0				2.7	18.0
19.0				2.4	19.0
20.0				2.1	20.0
21.0				20.1m/2.0	21.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

LIFTING CAPACITIES

Aux. Sheave Rated Loads (Tilt Double Sheave) (Without Main Hook Block)

Counterweight: 8.0 t (Offset Angle: 10.5°)

Special type boom rated load

	• • • • • • • • • • • • • • • • • • • •			(Unit:	metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.7m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	6.0	7.0
8.0		6.0	6.0	6.0	8.0
9.0		6.0	6.0	6.0	9.0
10.0		6.0	6.0	6.0	10.0
11.0		6.0	6.0	6.0	11.0
12.0		11.3m/6.0	6.0	6.0	12.0
13.0			5.2	5.7	13.0
14.0			4.5	5.0	14.0
15.0			3.9	4.4	15.0
16.0			15.7m/3.6	3.9	16.0
17.0				3.4	17.0
18.0				3.1	18.0
19.0				2.7	19.0
20.0				2.4	20.0
21.0				20.1m/2.4	21.0
Max. boom angle	56°	70°	75°	79°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Lo (With 55t Main H	Special type boom	ngle: 10.5°)	
Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	7.0
8.0		6.0	6.0	8.0
9.0		4.8	4.9	9.0
10.0		3.8	3.9	10.0
11.0		3.0	3.2	11.0
12.0		11.3m/2.8	2.5	12.0
13.0			2.0	13.0
14.0			1.6	14.0
15.0			1.2	15.0
16.0			15.7m/1.0	16.0
Max. boom angle	56°	70°	75°	Max. boom angle
Min. boom angle	0°	0°	0°	Min. boom angle

Note:

Aux. Sheave Rated Loads (Tilt Double Sheave) (With 30t Main Hook Block)

Without Counterweight (Option) (Offset Angle: 10.5°) Special type boom rated load

(Unit: metric ton)

Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	7.0
8.0		6.0	6.0	8.0
9.0		5.0	5.1	9.0
10.0		4.0	4.1	10.0
11.0		3.2	3.4	11.0
12.0		11.3m/3.0	2.7	12.0
13.0			2.2	13.0
14.0			1.8	14.0
15.0			1.4	15.0
16.0			15.7m/1.2	16.0
Max. boom angle	56°	70°	75°	Max. boom angle
Min. boom angle	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Lo (Without Main Ho	Special type bo	t Angle: 10.5°)	
Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)
3.0		3.9m/6.0	3.8m/6.0	3.0
4.0	4.1m/6.0	6.0	6.0	4.0
5.0	6.0	6.0	6.0	5.0
6.0	6.0	6.0	6.0	6.0
7.0	6.9m/6.0	6.0	6.0	7.0
8.0		6.0	6.0	8.0
9.0		5.4	5.5	9.0
10.0		4.4	4.5	10.0
11.0		3.6	3.7	11.0
12.0		11.3m/3.4	3.1	12.0
13.0			2.6	13.0
14.0			2.1	14.0
15.0			1.7	15.0
16.0			15.7m/1.5	16.0
Max. boom angle	56°	70°	75°	Max. boom angle
Min. boom angle	0°	0°	0°	Min. boom angle

Note:

LIFTING CAPACITIES

Aux. Sheave Rated Loads (Tilt Double Sheave) Counterweight: 13.2 t (Offset Angle: -32.8°) (With 55t Main Hook Block) Special type boom rated load (Unit: metric ton) Boom length radius (m) Boom length (m) radius (m) 7.7 12.1 16.5 20.9 5.4m/6.0 5.0 5.0 6.0 6.0 6.0 6.7m/6.0 7.0 7.0 8.0 8.0 9.0 6.0 9.0 10.0 6.0 10.0 11.0 6.0 11.0 12.0 11.1m/6.0 12.7m/6.0 12.0 13.0 6.0 13.0 14.0 5.2 14.0 4.5 15.0 15.0 16.0 15.4m/4.3 16.3m/4.3 16.0 17.0 3.9 17.0 18.0 3.5 18.0 19.0 3.1 19.0 19.8m/2.8 20.0 20.0 35° 35 35 Max. boom angle 35° Max. boom angle 0° 0° 0° 0° Min. boom angle Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Ra (With 30t Ma	(Offset Special type bo	rweight: 13.2 t Angle: -32.8°) om rated load Init: metric ton)		
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
5.0	5.4m/6.0				5.0
6.0	6.0				6.0
7.0	6.7m/6.0				7.0
8.0					8.0
9.0		6.0			9.0
10.0		6.0			10.0
11.0		6.0			11.0
12.0		11.1m/6.0	12.7m/6.0		12.0
13.0			6.0		13.0
14.0			5.4		14.0
15.0			4.7		15.0
16.0			15.4m/4.5	16.3m/4.5	16.0
17.0				4.1	17.0
18.0				3.7	18.0
19.0				3.3	19.0
20.0				19.8m/3.0	20.0
Max. boom angle	35°	35°	35°	35°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

	Aux. Sheave Rated Loads (Tilt Double Sheave) (Without Main Hook Block)			(Offset A Special type boo	reight: 13.2 t ngle: -32.8°) m rated load it: metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
5.0	5.4m/6.0				5.0
6.0	6.0				6.0
7.0	6.7m/6.0				7.0
8.0					8.0
9.0		6.0			9.0
10.0		6.0			10.0
11.0		6.0			11.0
12.0		11.1m/6.0	12.7m/6.0		12.0
13.0			6.0		13.0
14.0			5.8		14.0
15.0			5.1		15.0
16.0			15.4m/4.8	16.3m/4.8	16.0
17.0				4.5	17.0
18.0				4.0	18.0
19.0				3.6	19.0
20.0				19.8m/3.3	20.0
Max. boom angle	35°	35°	35°	35°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Loads (Tilt Double Sheave) (With 55t Main Hook Block)			Counterweight: 8.0 t (Offset Angle: -32.8°) Special type boom rated load (Unit: metric ton)	
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
5.0	5.4m/6.0				5.0
6.0	6.0				6.0
7.0	6.7m/6.0				7.0
8.0					8.0
9.0		6.0			9.0
10.0		6.0			10.0
11.0		6.0			11.0
12.0		11.1m/6.0	12.7m/4.8		12.0
13.0			4.6		13.0
14.0			3.9		14.0
15.0			3.4		15.0
16.0			15.4m/3.2	16.3m/3.2	16.0
17.0				2.9	17.0
18.0				2.5	18.0
19.0				2.2	19.0
20.0				19.8m/1.9	20.0
Max. boom angle	35°	35°	35°	35°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

LIFTING CAPACITIES

Aux. Sheave Rated Loads (Tilt Double Sheave) Counterweight: 8.0 t (Offset Angle: -32.8°) (With 30t Main Hook Block) Special type boom rated load (Unit: metric ton) Boom length radius (m) Boom length (m) radius (m) 7.7 12.1 16.5 20.9 5.4m/6.0 5.0 5.0 6.0 6.0 6.0 6.7m/6.0 7.0 7.0 8.0 8.0 9.0 6.0 9.0 10.0 6.0 10.0 11.0 6.0 11.0 12.0 11.1m/6.0 12.7m/5.0 12.0 13.0 4.8 13.0 14.0 4.1 14.0 15.0 3.6 15.0 16.0 15.4m/3.4 16.3m/3.4 16.0 17.0 3.1 17.0 18.0 2.7 18.0 19.0 2.4 19.0 19.8m/2.1 20.0 20.0 35° 35 35 Max. boom angle 35° Max. boom angle 0° 0° 0° 0° Min. boom angle Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Loads (Tilt Double Sheave) (Without Main Hook Block)			Counterweight: 8.0 t (Offset Angle: -32.8°) Special type boom rated load (Unit: metric ton)	
Boom length Working (m) radius (m)	7.7	12.1	16.5	20.9	Boom length (m) Working radius (m)
5.0	5.4m/6.0				5.0
6.0	6.0				6.0
7.0	6.7m/6.0				7.0
8.0		1			8.0
9.0		6.0			9.0
10.0		6.0			10.0
11.0		6.0			11.0
12.0		11.1m/6.0	12.7m/5.4		12.0
13.0			5.2		13.0
14.0			4.5		14.0
15.0			3.9		15.0
16.0			15.4m/3.7	16.3m/3.7	16.0
17.0				3.4	17.0
18.0				3.1	18.0
19.0				2.7	19.0
20.0				19.8m/2.5	20.0
Max. boom angle	35°	35°	35°	35°	Max. boom angle
Min. boom angle	0°	0°	0°	0°	Min. boom angle

Note:

Aux. Sheave Rated Loads (Tilt Double Sheave) (With 55t Main Hook Block)

Without Counterweight (Option) (Offset Angle: -32.8°) Special type boom rated load

Without Counterweight (Option)

Special type boom rated load

(Offset Angle: -32.8°)

(Unit: metric ton)

Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)
5.0	5.4m/6.0			5.0
6.0	6.0			6.0
7.0	6.7m/6.0			7.0
8.0				8.0
9.0		4.8		9.0
10.0		3.8		10.0
11.0		3.0		11.0
12.0		11.1m/2.9	12.7m/2.2	12.0
13.0			2.0	13.0
14.0			1.6	14.0
15.0			1.2	15.0
16.0			15.4m/1.1	16.0
Max. boom angle	35°	35°	35°	Max. boom angle
Min. boom angle	0°	0°	0°	Min. boom angle

Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

Aux. Sheave Rated Loads (Tilt Double Sheave) (With 30t Main Hook Block)

(Ur				metric ton)
Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)
5.0	5.4m/6.0			5.0
6.0	6.0			6.0
7.0	6.7m/6.0			7.0
8.0				8.0
9.0		5.0		9.0
10.0		4.0		10.0
11.0		3.2		11.0
12.0		11.1m/3.1	12.7m/2.4	12.0
13.0			2.2	13.0
14.0			1.8	14.0
15.0			1.4	15.0
16.0			15.4m/1.3	16.0
Max. boom angle	35°	35°	35°	Max. boom angle
Min. boom angle	0°	0°	0 °	Min. boom angle

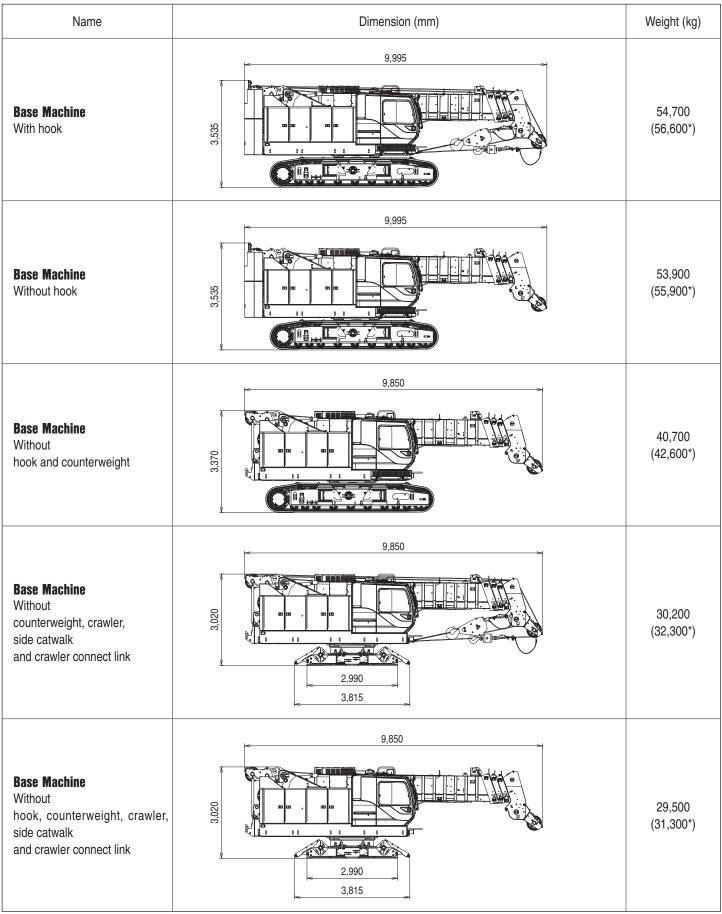
Note:

Ratings shown in _____ are determined by the strength of the boom or other structural components.

	Aux. Sheave Rated Loads (Tilt Double Sheave) (Without Main Hook Block)		(Offset A Special type boo	Without Counterweight (Option) (Offset Angle: -32.8°) Special type boom rated load (Unit: metric ton)	
Boom length Working (m) radius (m)	7.7	12.1	16.5	Boom length (m) Working radius (m)	
5.0	5.4m/6.0			5.0	
6.0	6.0			6.0	
7.0	6.7m/6.0			7.0	
8.0				8.0	
9.0		5.4		9.0	
10.0		4.4		10.0	
11.0		3.6		11.0	
12.0		11.1m/3.5	12.7m/2.7	12.0	
13.0			2.6	13.0	
14.0			2.1	14.0	
15.0			1.7	15.0	
16.0			15.4m/1.6	16.0	
Max. boom angle	35°	35°	35°	Max. boom angle	
Min. boom angle	0°	0°	0°	Min. boom angle	

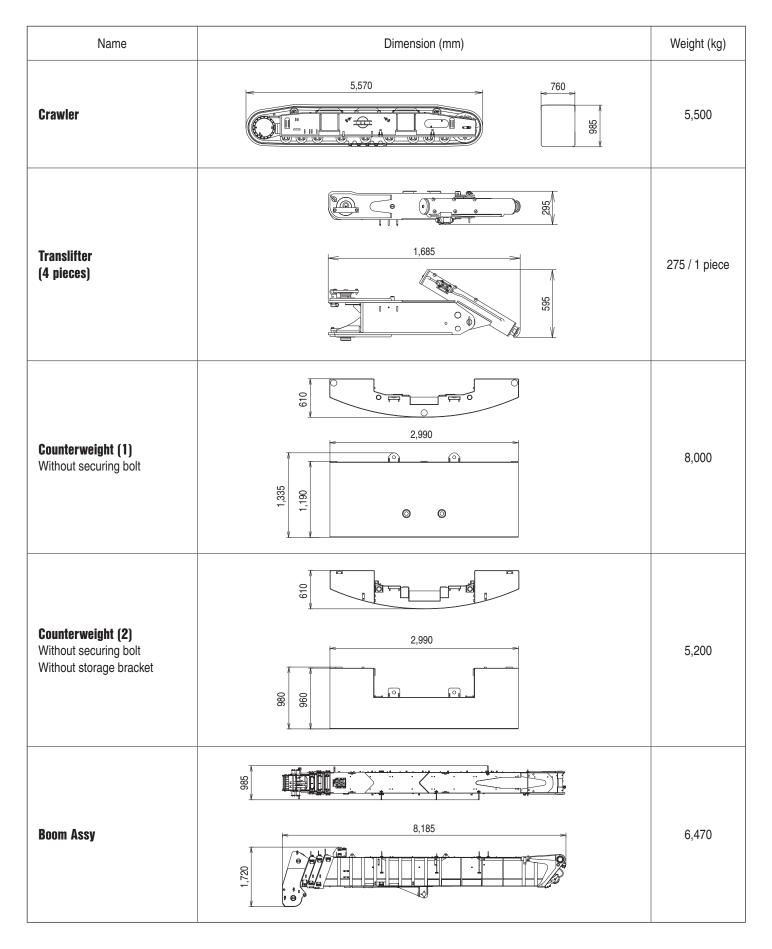
Note:

TRANSPORTATION PLAN



* With third winch and other optional parts / attachments

PARTS AND ATTACHMENTS



PARTS AND ATTACHMENTS

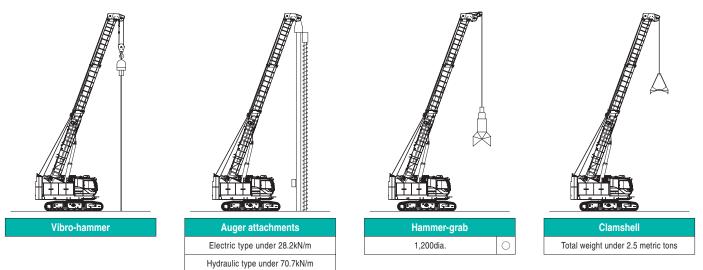
Name	Dimension (mm)		Weight (kg)
Auxiliary Sheave (Single Sheave)			100
Auxiliary Sheave (Double Sheave) (Option)		955	170
Auxiliary Sheave (Tilt Double Sheave) (Option)	SEC.	1,565	275
55 t Hook (Single Hook)	OLC'		550

Name	Dimension (mm)	Weight (kg)
30 t Hook (Single Hook)		350
6 t Ball Hook	¢290 516	160
6 t Light Weight Swivel Hook		60

PARTS AND ATTACHMENTS

Counterweight Self-Removal Device (Option)

Recommended Attachments



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