SCX1200-3

Stage V

SCX 1200-3

HYDRAULIC CRAWLER CRANE

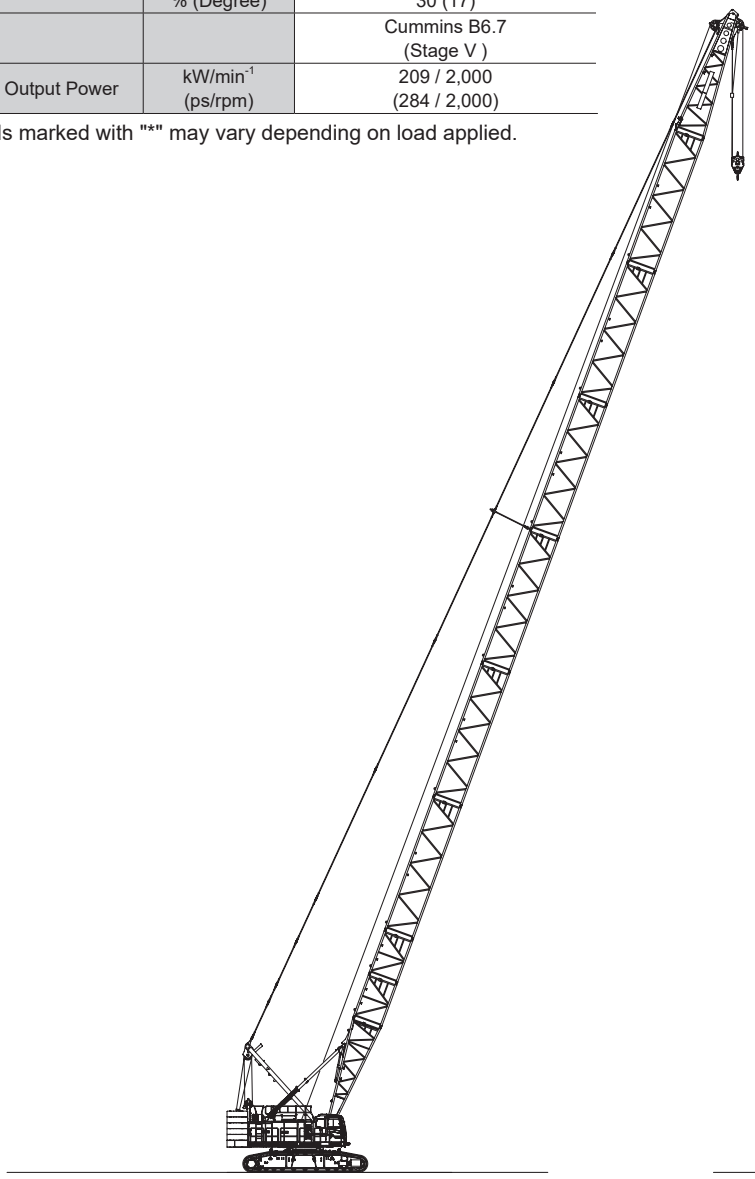
HSC CRANES

2406 Ⓑ 01H.EA397

Variation of The Attachment

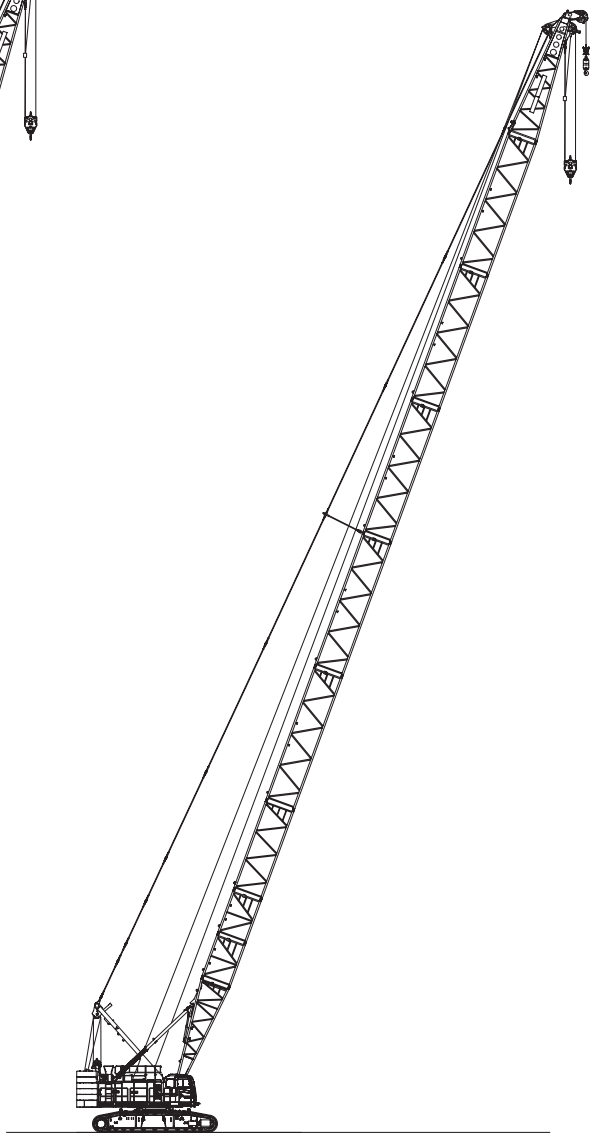
Line Speed *	Front / Rear Winch (Rated with 12 t load)	m/min	110 (45)
	Third Winch (Rated with 12 t load)		95 (30)
	Boom Hoist Winch		44
	Tower Jib Hoist Winch		55
Swing Speed		min^{-1} (rpm)	1.8
Travel Speed High / Low *		km/h	1.5 / 0.9
Gradeability		% (Degree)	30 (17)
Engine Model			Cummins B6.7 (Stage V)
Engine Rated Output Power		kW/min^{-1} (ps/rpm)	209 / 2,000 (284 / 2,000)

Note : Speeds marked with "*" may vary depending on load applied.



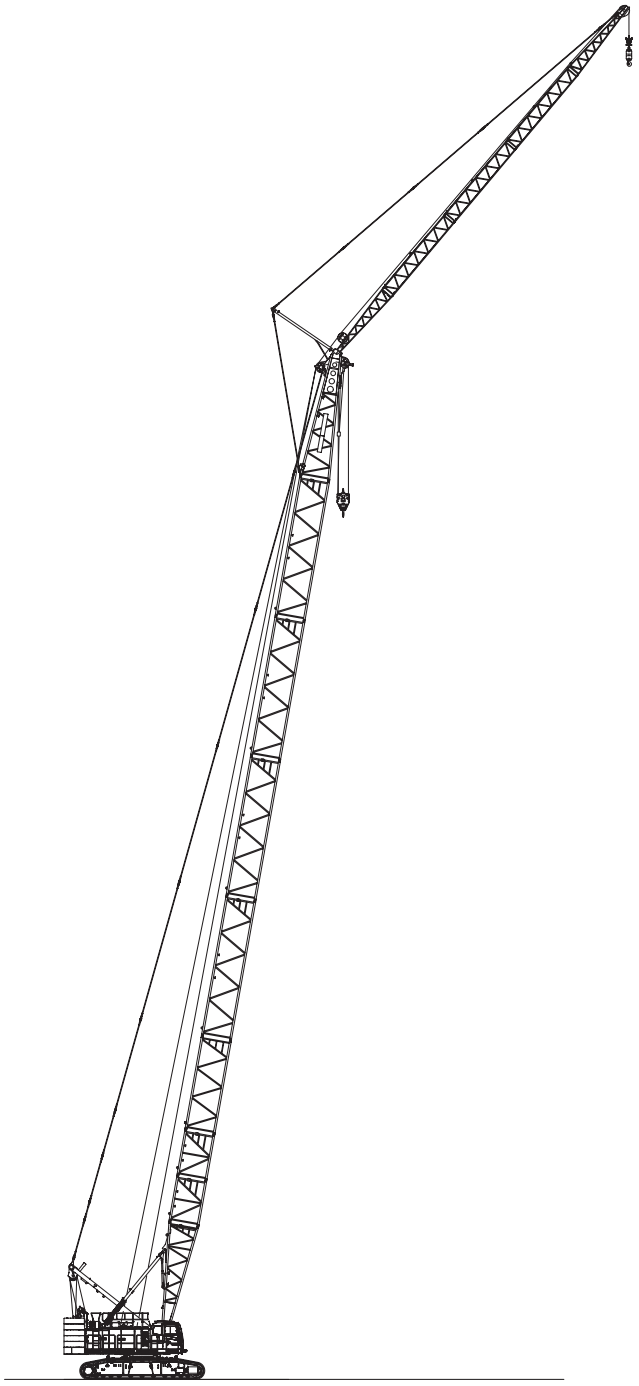
Crane Specification (Boom Longest Length)

Boom Length	m	15 to 75
Ground Contact Pressure	kPa (kgf/cm^2)	97 (0.98) (Boom longest length with 35 t hook)
Overall Operating Weight	t	Approximately 130 (Boom longest length with 35 t hook)



Crane Specification (Boom Longest Length with Aux. Sheave)

Boom Length	m	15 to 72
Ground Contact Pressure	kPa (kgf/cm^2)	97 (0.99) (Boom longest length + 35 t aux. sheave + 12 t hook attached)
Overall Operating Weight	t	Approximately 131 (Boom longest length + 35 t aux. sheave + 12 t hook attached)



Crane Specification
(Boom Longest Length with Crane Jib)

Boom Length	m	24 to 63
Crane Jib Length	m	10 to 28
Boom + Crane Jib Longest Length	m	63 + 28
Ground Contact Pressure	kPa (kgf/cm²)	97 (0.99) (Boom + crane jib longest length 35 t + 12 t hook attached)
Overall Operating Weight	t	Approximately 131 (Boom + crane jib longest length 35 t + 12 t hook attached)

VARIATION

SPECIFICATIONS

TECHNICAL DATA

Specifications

Engine

Model	Cummins B6.7 (Stage V)
Type	4-cycle, Water-cooled, Direct injection, Turbo-charged, Diesel engine
Displacement	6.7 liters
Rated Output	209 kW / 2,000 min^{-1} (273 ps / 2,000 rpm)
Fuel Tank Capacity	450 liters
Notes	Compliant with the engine emissions regulations for EU stage V . Engine rated horsepower is based on international rating formula that includes engine alternator and without fan.

Control

Control System	Main actuators are actuated by main hydraulic system controlled with pilot hydraulic system. Safety devices are securely operated by combined various electronic control with hydraulic system. Working speed can be precisely controlled according to control lever stroke and control dials depending on work.
Control Levers	Designed and positioned based on ergonomics. Armchair lever type is standard. Cross operation lever type and front lever type are available as option.
Display Panel Design	12.1 inches size touch panel. Located to check work state easily without disturbing the view of the operator.

Hydraulic System

Hydraulic Oil Tank Capacity	320 liters		
Hydraulic Pump Capacity	Max.	31.4 MPa	
	P1	266 liters / min	for Front, Rear , Boom hoist winch and Travel
	P2	266 liters / min	for Front, Rear , Third winch and Travel
	P3	160 liters / min	for Swing, Jack and Sideframe connect
	P4	41 liters / min	Pilot control, Reeving tagline, Hyd.tagline etc.
	P5	41 liters / min	
	P6	41 liters / min	
	P7	32 liters / min	

Winch

Front and Rear Winch				
Winch		Front	Rear	
Rope Diameter		26 mm	26 mm	
Rope Length	Standard	285 m	160 m	for Aux. sheave
		-	195 m	for Crane jib
	Winding Capacity	360 m	360 m	
Line Pull	Rated	117 kN	117 kN	
Standard Equipment		High-speed winching is possible by ECO winch mode with low engine speed under light loads.		
Optional Equipment		Free fall winch with brake controlled by pedal operation.		
Boom Hoist Winch				
Rope Diameter		22.4 mm		
Rope Length	Incorporated	195 m		
		Hydraulic motor with multi-disc brakes.		

Third Winch (Optional)		
Rope Diameter		26 mm
Rope Length	Standard	220 m
	Winding Capacity	220 m
Line Pull	Rated	117 kN
		Free fall winch with brake controlled by pedal operation.

Swing System

	Consisted of 2 hydraulic motors with reduction gear and multi-disc brakes and a swing bearing which has inner tooth. Optional swing brake pedal enables operator to control swing precisely.

Mast

	Mast is box structure. Easy assemble for front attachment.

Counter Weight

Upper Weight	Total Weight	49.6 ton
	9.1 ton Base Weight	1 piece
	8.1 ton Insert Weight	5 pieces

Car Body Frame

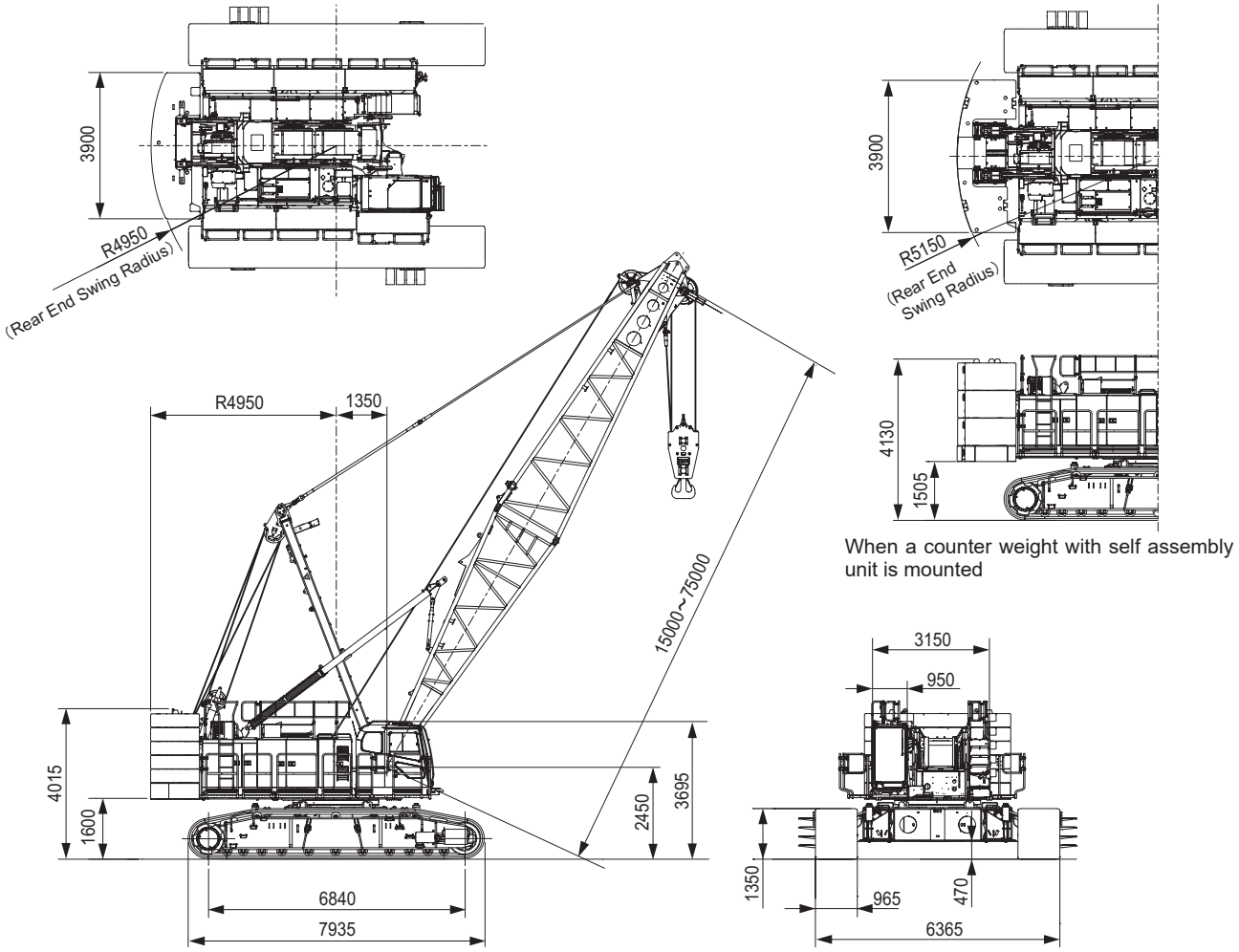
	Welded steel construction with jack up device and crawler sideframe connect cylinders.

Crawler Sideframe

Frame	Welded steel box construction. Hook on and joint pin design for crawler sideframe connection to carbody frame.	
Shoe	Cast iron 965mm width flat shoes each side.	
Upper Roller	5 pieces each side.	
	Double flange type : 3 pieces	
	Single flange type : 2 pieces	
Lower Roller	11 pieces each side.	
	Forging heat treated steel with double flange type. 2 plane bearing with floating seal for lifetime lubrication.	
Travel Device	1 piece each side.	
	Hydraulic travel device (Hydraulic motor and reducer)	
	Travel speed (Gradability : 30%)	High : 1.5 km/h
		Low : 0.9 km/h

Crane Specifications

Dimensions and Specifications



Crane Specifications		
Max. Lifting Load × Working Radius	t × m	120×5.0
Basic Boom Length	m	15
Max. Boom Length	m	75
Max. Crane Jib Length	m	10 to 28
Max. Boom + Jib Length	m	63 + 28
Ground Contact Pressure	kPa (kgf/cm²)	91 (0.93) (w / Basic Boom, 120 t Hook)
Overall Operating Weight	t	Approximately 122 (w / Basic Boom, 120 t Hook)

Hook Weight	
120 t	1,640 kg
80 t	1,350 kg
35 t	900 kg
12 t	510 kg

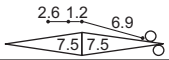
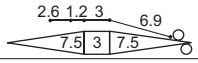
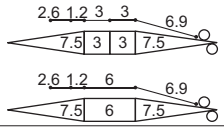
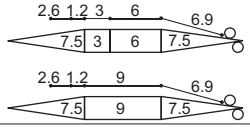
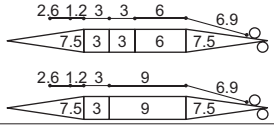
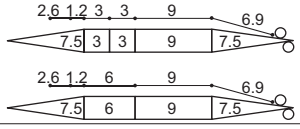
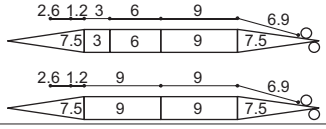
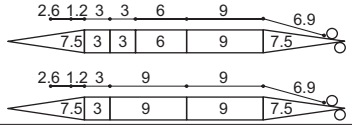
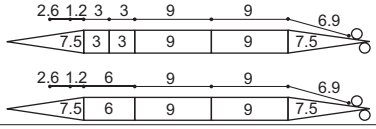
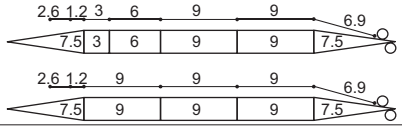
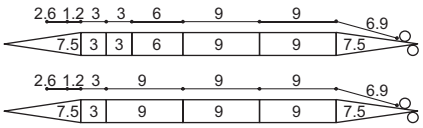
NOTE : Data is expressed in SI units followed by conventional units in ( ).

Front/Rear Third Winch Rope No. of Falls and Lifting Load										
Hook Capacity (t)	Maximum Rated Load (t)									
	10 Falls	9 Falls	8 Falls	7 Falls	6 Falls	5 Falls	4 Falls	3 Falls	2 Falls	1 Fall
120	120	108	96	84	72	60	48	36	24	-
80	-	-	-	80	72	60	48	36	24	-
35	-	-	-	-	-	-	-	35	24	-
12	-	-	-	-	-	-	-	-	-	12

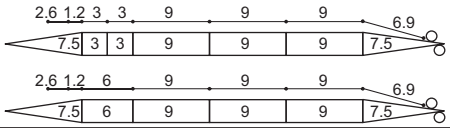
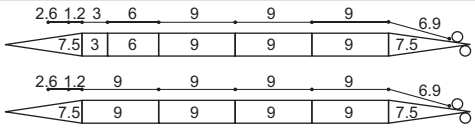
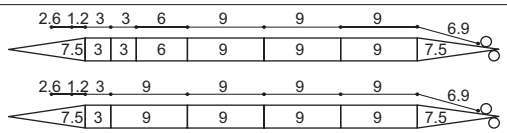
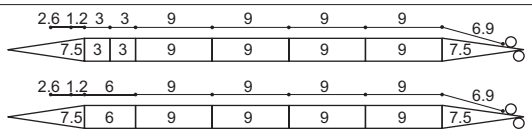
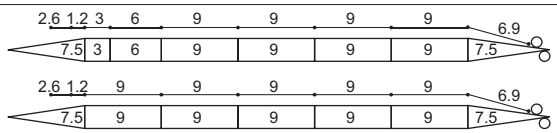
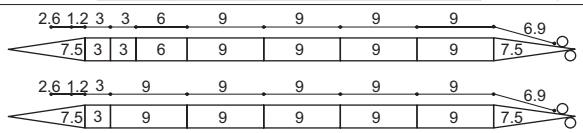
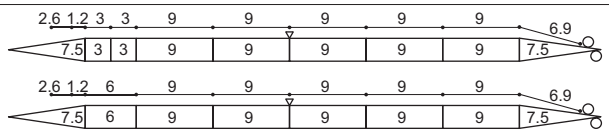
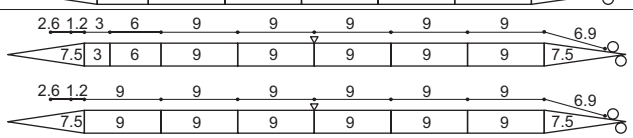
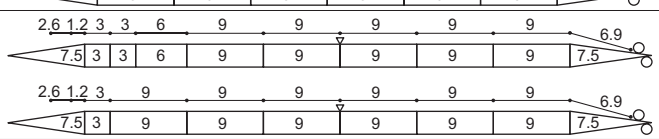
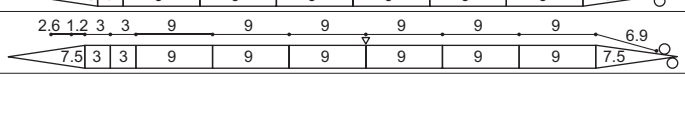
Boom and Crane Jib Configurations

With Crane Boom Extensions

Boom (1/2)

Boom Length (m)	Boom Configurations
15	
18	
21	
24	
27	
30	
33	
36	
39	
42	
45	

Boom (2/2)

Boom Length (m)	Boom Configurations
48	
51	
54	
57	
60	
63	
66	
69	
72	
75	

▽ indicates the midpoint pendant rope connection position.

Aux. Sheave Installable Boom Length

Boom Length (m)	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75
With Aux. Sheave	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×

(○ : Attachable × : Not Attachable)

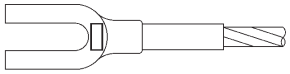
Check the pendant rope with referring to the imprints on the rope end.

Dimensions Not Shown In The Figure

Symbols	Boom Length (m)
3	3
6	6
7.5	7.5
9	9

Pendant Rope

Length (m)	Rope Diameter (mm)	Imprint
1.2	40	□ • △ • 40 • 1.2 • C
2.6	40	□ • △ • 40 • 2.55 • C
3	40	□ • △ • 40 • 3 • C
6	40	□ • △ • 40 • 6 • C
6.9	40	□ • △ • 40 • 6.9 • C
9	40	□ • △ • 40 • 9 • C



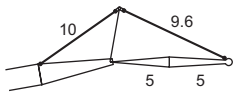
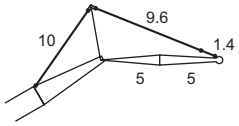
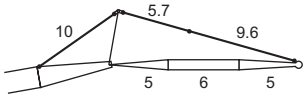
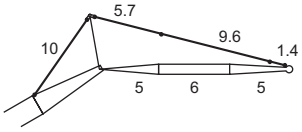
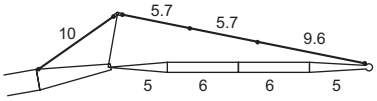
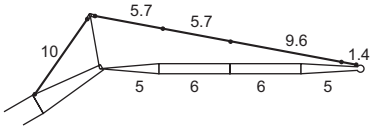
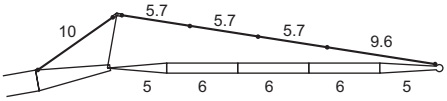
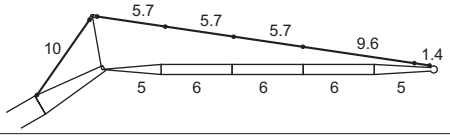
Combination of Boom and Crane Jib (Offset Angle 10° and 30°)

Combination of Boom and Crane Jib (Offset Angle 10° and 30°)

Boom Length (m)		15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75
Jib Length (m)	10	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×
	16	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×
	22	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×
	28	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×

(○ : Attachable × : Not Attachable)

Crane Jib (Offset Angle 10° and 30°)

Crane Jib Length (m)	Offset Angle	Crane Jib Configurations
10	10°	
	30°	
16	10°	
	30°	
22	10°	
	30°	
28	10°	
	30°	

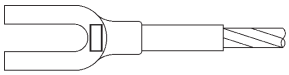
Check the pendant rope with referring to the imprints on the rope end.

Dimensions Not Shown In The Figure

Symbols	Jib Length (m)
5	5
6	6

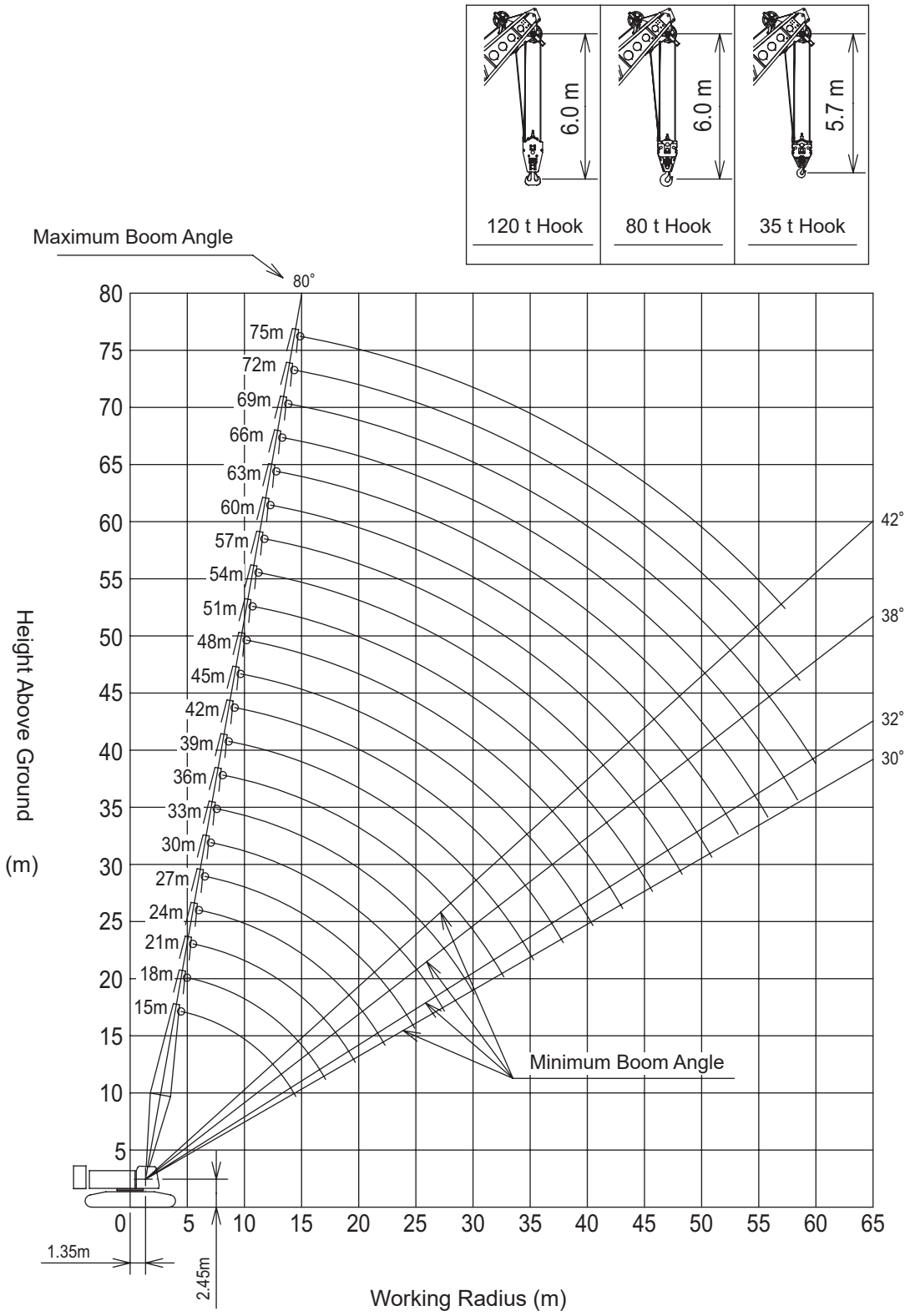
Jib Pendant Rope

Length (m)	Rope Diameter (mm)	Imprint
1.4	24	□ • △ • 24 • 1.4 • S
5.7	24	□ • △ • 24 • 5.7 • S
9.6	24	□ • △ • 24 • 9.6 • S
10	26	□ • △ • 26 • 10 • S

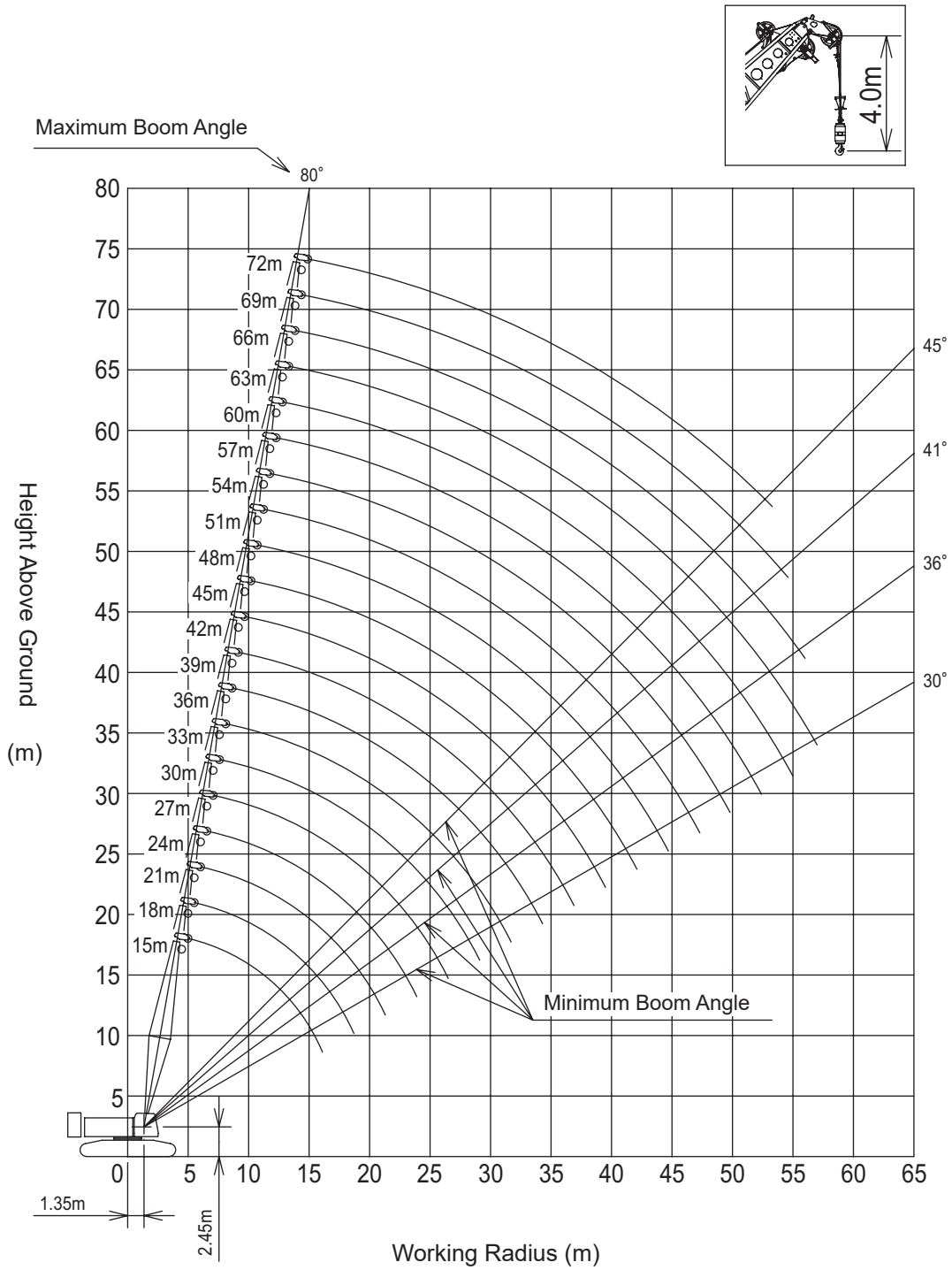


Working Ranges

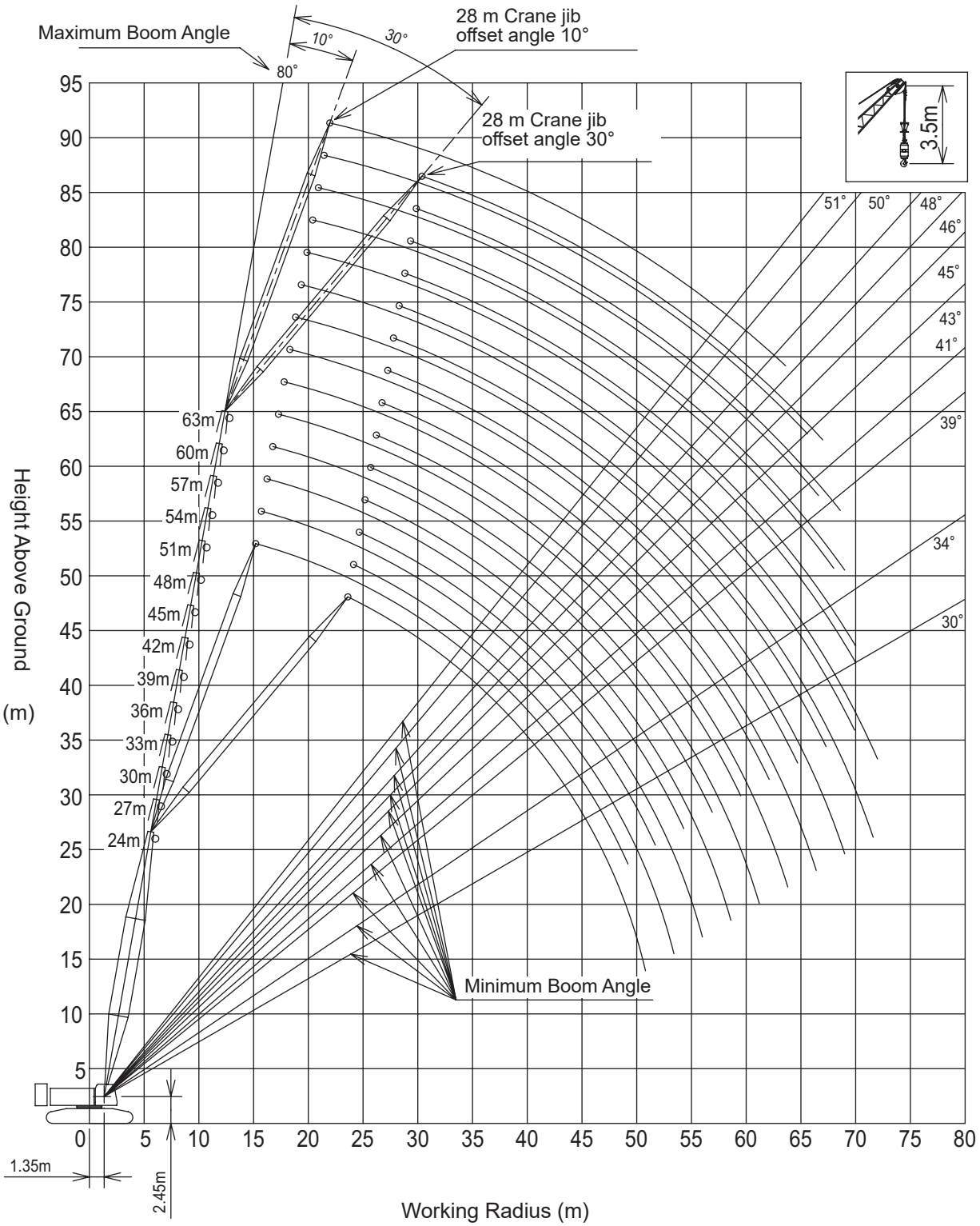
■ Main Boom (With Crane Boom Extensions)



■ Main Boom with Aux. Sheave (With Crane Boom Extensions)



Crane Jib (With Crane Boom Extensions)



Gross Rated Load Table

■ Main Boom (With Crane Boom Extensions)

Unit: ton

Working Radius (m)	Boom length (m)											Working Radius (m)
	15	18	21	24	27	30	33	36	39	42	45	
4.6	120.0											4.6
5.0	120.0	115.8 /5.2										5.0
5.5	109.9	109.7	105.9 /5.7									5.5
6.0	101.1	100.9	100.7	96.0 /6.3	84.0 /6.8							6.0
7.0	87.0	86.8	86.7	86.6	84.0	72.0 /7.4	72.0 /7.9					7.0
8.0	76.3	76.1	75.9	75.9	75.7	72.0	72.0	60.0 /8.5				8.0
9.0	64.8	64.8	64.8	64.8	64.8	64.8	63.7	60.0	60.0	48.0 /9.6		9.0
10.0	55.4	55.5	55.4	55.4	55.4	55.4	55.3	54.9	53.8	48.0	48.0 /10.1	10.0
12.0	42.7	42.8	42.7	42.7	42.6	42.6	42.5	42.4	42.3	42.3	41.6	12.0
14.0	34.5	34.5	34.5	34.5	34.4	34.4	34.2	34.1	34.0	34.0	33.8	14.0
16.0	32.9 /14.5	28.8	28.7	28.7	28.6	28.6	28.5	28.3	28.2	28.2	28.0	16.0
18.0		26.3 /17.1	24.5	24.5	24.3	24.3	24.2	24.1	23.9	23.9	23.7	18.0
20.0			21.6 /19.7	21.2	21.1	21.0	20.9	20.8	20.6	20.6	20.4	20.0
22.0				18.6	18.5	18.4	18.3	18.2	18.0	17.9	17.7	22.0
24.0				18.3 /22.3	16.4	16.3	16.2	16.0	15.9	15.8	15.6	24.0
26.0					15.5 /24.9	14.6	14.4	14.3	14.1	14.1	13.8	26.0
28.0						13.4 /27.5	13.0	12.8	12.7	12.6	12.4	28.0
30.0							11.7	11.5	11.4	11.3	11.1	30.0
32.0							11.7 /30.1	10.5	10.3	10.2	10.0	32.0
34.0								10.1 /32.7	9.4	9.3	9.1	34.0
36.0									8.8 /35.3	8.4	8.2	36.0
38.0										7.7 /37.9	7.5	38.0
40.0											6.8	40.0
42.0											6.7 /40.5	42.0

Unit: ton

Working Radius (m)	Boom length (m)										Working Radius (m)
	48	51	54	57	60	63	66	69	72	75	
10.0	36.0 /10.6	36.0 /11.2	36.0 /11.7								10.0
12.0	36.0	36.0	36.0	36.0 /12.3	24.0 /12.9	24.0 /13.5					12.0
14.0	33.8	33.3	32.5	31.8	24.0	24.0	24.0	24.0 /14.5	23.7 /15.1	21.0 /15.6	14.0
16.0	27.9	27.8	27.6	27.2	24.0	24.0	24.0	24.0	23.2	20.8	16.0
18.0	23.6	23.5	23.3	23.1	22.9	22.4	21.8	21.3	20.7	20.0	18.0
20.0	20.3	20.2	20.0	19.8	19.8	19.6	19.1	18.6	18.0	17.5	20.0
22.0	17.7	17.5	17.3	17.2	17.1	16.9	16.8	16.3	15.8	15.4	22.0
24.0	15.6	15.4	15.2	15.0	15.0	14.8	14.6	14.4	14.0	13.6	24.0
26.0	13.8	13.6	13.4	13.3	13.2	13.0	12.8	12.7	12.5	12.0	26.0
28.0	12.3	12.1	11.9	11.8	11.7	11.5	11.3	11.2	10.9	10.7	28.0
30.0	11.0	10.9	10.7	10.5	10.4	10.2	10.1	9.9	9.7	9.5	30.0
32.0	9.9	9.8	9.6	9.4	9.3	9.1	8.9	8.8	8.6	8.4	32.0
34.0	9.0	8.8	8.6	8.4	8.4	8.1	8.0	7.8	7.6	7.4	34.0
36.0	8.1	8.0	7.8	7.6	7.5	7.3	7.1	7.0	6.7	6.6	36.0
38.0	7.4	7.2	7.0	6.8	6.8	6.5	6.4	6.2	6.0	5.8	38.0
40.0	6.7	6.6	6.3	6.2	6.1	5.9	5.7	5.5	5.3	5.1	40.0
42.0	6.1	6.0	5.8	5.6	5.5	5.3	5.1	4.9	4.7	4.5	42.0
44.0	5.8 /43.1	5.4	5.2	5.0	4.9	4.7	4.6	4.4	4.2	4.0	44.0
46.0		5.0 /45.7	4.7	4.6	4.5	4.2	4.1	3.9	3.7	3.5	46.0
48.0			4.3	4.1	4.0	3.8	3.6	3.4	3.2	3.0	48.0
50.0			4.2 /48.3	3.7	3.6	3.4	3.2	3.0	2.8	2.6	50.0
52.0				3.6 /50.9	3.2	3.0	2.8	2.7	2.4	2.3	52.0
54.0					3.0 /53.2	2.7	2.5	2.3	2.1	1.9	54.0
56.0						2.4 /55.8	2.2	2.0	1.8	1.6	56.0
58.0							1.9	1.7	1.5	1.4 /57.3	58.0
60.0							1.8 /58.4	1.4	1.4 /58.6		60.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The counter weight is 49.6 tons.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity (t)	Hook Weight (t)	Maximum rated loads (t)									
		10falls	9falls	8falls	7falls	6falls	5falls	4falls	3falls	2falls	1fall
120	1.64	120	108	96	84	72	60	48	36	24	
80	1.35				80	72	60	48	36	24	
35	0.90								35	24	
12	0.51										12

7. When performing repetitive work using buckets, lifting magnets, etc., the higher the load factor, the shorter the life of the structure (boom, frame, winch, etc.).

■ Aux. Sheave【Main Boom：120 t Hook attached】

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	15	18	21	24	27	30	33	36	39	42	
5.8	12.0										5.8
6.0	12.0	12.0 /6.3	12.0 /6.9								6.0
7.0	12.0	12.0	12.0	12.0 /7.4							7.0
8.0	12.0	12.0	12.0	12.0	12.0	12.0 /8.5					8.0
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /9.6			9.0
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /10.1	12.0 /10.7	10.0
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	16.0
18.0	12.0 /16.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0		12.0 /18.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0			12.0 /21.3	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0				12.0 /23.9	12.0	12.0	12.0	12.0	12.0	12.0	24.0
26.0					12.0	12.0	12.0	12.0	12.0	12.0	26.0
28.0					12.0 /26.5	11.3	11.2	11.0	10.9	10.8	28.0
30.0						10.6 /29.1	9.9	9.8	9.6	9.5	30.0
32.0							9.0 /31.7	8.7	8.5	8.4	32.0
34.0								7.7	7.6	7.5	34.0
36.0								7.6 /34.3	6.7	6.6	36.0
38.0									6.4 /36.9	5.9	38.0
40.0										5.4 /39.5	40.0

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	45	48	51	54	57	60	63	66	69	72	
10.0	12.0 /11.2	12.0 /11.8									10.0
12.0	12.0	12.0	12.0 /12.3	12.0 /12.9	12.0 /13.4						12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /14.5	12.0 /15.1	12.0 /15.6		14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /16.2	16.0
18.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.9	11.5	24.0
26.0	12.0	12.0	11.8	11.6	11.5	11.4	11.2	11.0	10.7	10.2	26.0
28.0	10.6	10.5	10.3	10.1	9.9	9.9	9.7	9.5	9.3	8.9	28.0
30.0	9.3	9.2	9.0	8.8	8.7	8.6	8.4	8.2	8.0	7.7	30.0
32.0	8.2	8.1	7.9	7.7	7.5	7.5	7.3	7.1	6.9	6.7	32.0
34.0	7.2	7.1	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	34.0
36.0	6.4	6.3	6.1	5.9	5.7	5.7	5.4	5.3	5.1	4.9	36.0
38.0	5.6	5.5	5.4	5.2	5.0	4.9	4.7	4.5	4.3	4.1	38.0
40.0	5.0	4.9	4.7	4.5	4.3	4.2	4.0	3.8	3.6	3.4	40.0
42.0	4.4	4.3	4.1	3.9	3.7	3.6	3.4	3.2	3.0	2.8	42.0
44.0	4.4 /42.1	3.7	3.6	3.3	3.2	3.1	2.9	2.7	2.5	2.3	44.0
46.0		3.6 /44.7	3.1	2.9	2.7	2.6	2.4	2.2	2.0	1.8	46.0
48.0			2.8 /47.3	2.4	2.2	2.1	1.9	1.7	1.5	1.5 /47.0	48.0
50.0				2.0 /49.8	1.8	1.7	1.5				50.0
52.0					1.5						52.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct the weight of hooks and lifting accessories other than the main hook from the figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The counter weight is 49.6 tons.
6. Hook weight are shown in the table below.

Hook Capacity (t)	Hook Weight (t)
12	0.51

■ Aux. Sheave【Main Boom：80 t Hook attached】

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	15	18	21	24	27	30	33	36	39	42	
5.8	12.0										5.8
6.0	12.0	12.0 /6.3	12.0 /6.9								6.0
7.0	12.0	12.0	12.0	12.0 /7.4							7.0
8.0	12.0	12.0	12.0	12.0	12.0	12.0 /8.5					8.0
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /9.6			9.0
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /10.1	12.0 /10.7	10.0
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	16.0
18.0	12.0 /16.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0		12.0 /18.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0			12.0 /21.3	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0				12.0 /23.9	12.0	12.0	12.0	12.0	12.0	12.0	24.0
26.0					12.0	12.0	12.0	12.0	12.0	12.0	26.0
28.0					12.0 /26.5	11.6	11.5	11.3	11.2	11.1	28.0
30.0						10.9 /29.1	10.2	10.1	9.9	9.8	30.0
32.0							9.3 /31.7	9.0	8.8	8.7	32.0
34.0								8.0	7.9	7.8	34.0
36.0								7.9 /34.3	7.0	6.9	36.0
38.0									6.7 /36.9	6.2	38.0
40.0										5.7 /39.5	40.0

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	45	48	51	54	57	60	63	66	69	72	
10.0	12.0 /11.2	12.0 /11.8									10.0
12.0	12.0	12.0	12.0 /12.3	12.0 /12.9	12.0 /13.4						12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /14.5	12.0 /15.1	12.0 /15.6		14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /16.2	16.0
18.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.8	24.0
26.0	12.0	12.0	12.0	11.9	11.8	11.7	11.5	11.3	11.0	10.5	26.0
28.0	10.9	10.8	10.6	10.4	10.2	10.2	10.0	9.8	9.6	9.2	28.0
30.0	9.6	9.5	9.3	9.1	9.0	8.9	8.7	8.5	8.3	8.0	30.0
32.0	8.5	8.4	8.2	8.0	7.8	7.8	7.6	7.4	7.2	7.0	32.0
34.0	7.5	7.4	7.3	7.1	6.9	6.8	6.6	6.4	6.2	6.0	34.0
36.0	6.7	6.6	6.4	6.2	6.0	6.0	5.7	5.6	5.4	5.2	36.0
38.0	5.9	5.8	5.7	5.5	5.3	5.2	5.0	4.8	4.6	4.4	38.0
40.0	5.3	5.2	5.0	4.8	4.6	4.5	4.3	4.1	3.9	3.7	40.0
42.0	4.7	4.6	4.4	4.2	4.0	3.9	3.7	3.5	3.3	3.1	42.0
44.0	4.7 /42.1	4.0	3.9	3.6	3.5	3.4	3.2	3.0	2.8	2.6	44.0
46.0		3.9 /44.7	3.4	3.2	3.0	2.9	2.7	2.5	2.3	2.1	46.0
48.0			3.1 /47.3	2.7	2.5	2.4	2.2	2.0	1.8	1.6	48.0
50.0				2.3 /49.8	2.1	2.0	1.8	1.6	1.5 /49.0		50.0
52.0					1.8	1.6					52.0
54.0					1.7 /52.4						54.0

・For notes about the table above, refer to page 14.

■ Aux. Sheave【Main Boom：35 t Hook attached】

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	15	18	21	24	27	30	33	36	39	42	
5.8	12.0										5.8
6.0	12.0	12.0 /6.3	12.0 /6.9								6.0
7.0	12.0	12.0	12.0	12.0 /7.4							7.0
8.0	12.0	12.0	12.0	12.0	12.0	12.0 /8.5					8.0
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /9.6			9.0
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /10.1	12.0 /10.7	10.0
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	16.0
18.0	12.0 /16.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0		12.0 /18.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0			12.0 /21.3	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0				12.0 /23.9	12.0	12.0	12.0	12.0	12.0	12.0	24.0
26.0					12.0	12.0	12.0	12.0	12.0	12.0	26.0
28.0					12.0 /26.5	12.0	11.9	11.7	11.6	11.5	28.0
30.0						11.3 /29.1	10.6	10.5	10.3	10.2	30.0
32.0							9.7 /31.7	9.4	9.2	9.1	32.0
34.0								8.4	8.3	8.2	34.0
36.0								8.3 /34.3	7.4	7.3	36.0
38.0									7.1 /36.9	6.6	38.0
40.0										6.1 /39.5	40.0

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	45	48	51	54	57	60	63	66	69	72	
10.0	12.0 /11.2	12.0 /11.8									10.0
12.0	12.0	12.0	12.0 /12.3	12.0 /12.9	12.0 /13.4						12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /14.5	12.0 /15.1	12.0 /15.6		14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /16.2	16.0
18.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	24.0
26.0	12.0	12.0	12.0	12.0	12.0	12.0	11.9	11.7	11.4	10.9	26.0
28.0	11.3	11.2	11.0	10.8	10.6	10.6	10.4	10.2	10.0	9.6	28.0
30.0	10.0	9.9	9.7	9.5	9.4	9.3	9.1	8.9	8.7	8.4	30.0
32.0	8.9	8.8	8.6	8.4	8.2	8.2	8.0	7.8	7.6	7.4	32.0
34.0	7.9	7.8	7.7	7.5	7.3	7.2	7.0	6.8	6.6	6.4	34.0
36.0	7.1	7.0	6.8	6.6	6.4	6.4	6.1	6.0	5.8	5.6	36.0
38.0	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	5.0	4.8	38.0
40.0	5.7	5.6	5.4	5.2	5.0	4.9	4.7	4.5	4.3	4.1	40.0
42.0	5.1	5.0	4.8	4.6	4.4	4.3	4.1	3.9	3.7	3.5	42.0
44.0	5.1 /42.1	4.4	4.3	4.0	3.9	3.8	3.6	3.4	3.2	3.0	44.0
46.0		4.3 /44.7	3.8	3.6	3.4	3.3	3.1	2.9	2.7	2.5	46.0
48.0			3.5 /47.3	3.1	2.9	2.8	2.6	2.4	2.2	2.0	48.0
50.0				2.7 /49.8	2.5	2.4	2.2	2.0	1.8	1.6	50.0
52.0					2.2	2.0	1.8	1.6	1.4	1.4 /51.0	52.0
54.0					2.1 /52.4	1.7	1.5	1.4 /53.0			54.0
56.0						1.5 /55.0					56.0

・For notes about the table above, refer to page 14.

■ Aux. Sheave【Main Boom：No Hook attached】

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	15	18	21	24	27	30	33	36	39	42	
5.8	12.0										5.8
6.0	12.0	12.0 /6.3	12.0 /6.9								6.0
7.0	12.0	12.0	12.0	12.0 /7.4							7.0
8.0	12.0	12.0	12.0	12.0	12.0	12.0 /8.5					8.0
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /9.6			9.0
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /10.1	12.0 /10.7	10.0
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	16.0
18.0	12.0 /16.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0		12.0 /18.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0			12.0 /21.3	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0				12.0 /23.9	12.0	12.0	12.0	12.0	12.0	12.0	24.0
26.0					12.0	12.0	12.0	12.0	12.0	12.0	26.0
28.0					12.0 /26.5	12.0	12.0	12.0	12.0	12.0	28.0
30.0						12.0 /29.1	11.5	11.4	11.2	11.1	30.0
32.0							10.6 /31.7	10.3	10.1	10.0	32.0
34.0								9.3	9.2	9.1	34.0
36.0								9.2 /34.3	8.3	8.2	36.0
38.0									8.0 /36.9	7.5	38.0
40.0										7.0 /39.5	40.0

Unit: ton

Radius (m)	Boom Length (m)										Radius (m)
	45	48	51	54	57	60	63	66	69	72	
10.0	12.0 /11.2	12.0 /11.8									10.0
12.0	12.0	12.0	12.0 /12.3	12.0 /12.9	12.0 /13.4						12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /14.5	12.0 /15.1	12.0 /15.6		14.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0 /16.2	16.0
18.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.0
20.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	20.0
22.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	22.0
24.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	24.0
26.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.8	26.0
28.0	12.0	12.0	11.9	11.7	11.5	11.5	11.3	11.1	10.9	10.5	28.0
30.0	10.9	10.8	10.6	10.4	10.3	10.2	10.0	9.8	9.6	9.3	30.0
32.0	9.8	9.7	9.5	9.3	9.1	9.1	8.9	8.7	8.5	8.3	32.0
34.0	8.8	8.7	8.6	8.4	8.2	8.1	7.9	7.7	7.5	7.3	34.0
36.0	8.0	7.9	7.7	7.5	7.3	7.3	7.0	6.9	6.7	6.5	36.0
38.0	7.2	7.1	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	38.0
40.0	6.6	6.5	6.3	6.1	5.9	5.8	5.6	5.4	5.2	5.0	40.0
42.0	6.0	5.9	5.7	5.5	5.3	5.2	5.0	4.8	4.6	4.4	42.0
44.0	6.0 /42.1	5.3	5.2	4.9	4.8	4.7	4.5	4.3	4.1	3.9	44.0
46.0		5.2 /44.7	4.7	4.5	4.3	4.2	4.0	3.8	3.6	3.4	46.0
48.0			4.4 /47.3	4.0	3.8	3.7	3.5	3.3	3.1	2.9	48.0
50.0				3.6 /49.8	3.4	3.3	3.1	2.9	2.7	2.5	50.0
52.0					3.1	2.9	2.7	2.5	2.3	2.1	52.0
54.0					3.0 /52.4	2.6	2.4	2.2	2.0	1.9 /53.3	54.0
56.0						2.4 /55.0	2.1	1.9	1.9 /54.6		56.0
58.0							1.9 /57.0				58.0

・For notes about the table above, refer to page 14.

Main Boom with Aux. Sheave (With Crane Boom Extensions)

Unit: ton

Working Radius (m)	Boom length (m)											Working Radius (m)
	15	18	21	24	27	30	33	36	39	42	45	
4.6	120.0											4.6
5.0	120.0	115.8 /5.2										5.0
5.5	109.9	109.7	105.9 /5.7									5.5
6.0	101.1	100.9	100.7	96.0 /6.3	84.0 /6.8							6.0
7.0	87.0	86.8	86.7	86.6	84.0	72.0 /7.4	72.0 /7.9					7.0
8.0	76.3	76.1	75.9	75.9	75.7	72.0	72.0	60.0 /8.5				8.0
9.0	64.8	64.8	64.8	64.8	64.8	64.8	63.7	60.0	60.0	48.0 /9.6		9.0
10.0	55.4	55.5	55.4	55.4	55.4	55.4	55.3	54.9	53.8	48.0	48.0 /10.1	10.0
12.0	42.7	42.8	42.7	42.7	42.6	42.6	42.5	42.4	42.3	42.3	41.6	12.0
14.0	34.5	34.5	34.5	34.5	34.4	34.4	34.2	34.1	34.0	34.0	33.8	14.0
16.0	32.9 /14.5	28.8	28.7	28.7	28.6	28.6	28.5	28.3	28.2	28.2	28.0	16.0
18.0		26.3 /17.1	24.5	24.5	24.3	24.3	24.2	24.1	23.9	23.9	23.7	18.0
20.0			21.6 /19.7	21.2	21.1	21.0	20.9	20.8	20.6	20.6	20.4	20.0
22.0				18.6	18.5	18.4	18.3	18.2	18.0	17.9	17.7	22.0
24.0				18.3 /22.3	16.4	16.3	16.2	16.0	15.9	15.8	15.6	24.0
26.0					15.5 /24.9	14.6	14.4	14.3	14.1	14.1	13.8	26.0
28.0						13.4 /27.5	13.0	12.8	12.7	12.6	12.4	28.0
30.0							11.7	11.5	11.4	11.3	11.1	30.0
32.0							11.7 /30.1	10.5	10.3	10.2	10.0	32.0
34.0								10.1 /32.7	9.4	9.3	9.1	34.0
36.0									8.8 /35.3	8.4	8.2	36.0
38.0										7.7 /37.9	7.5	38.0
40.0											6.8	40.0
42.0											6.7 /40.5	42.0

Unit: ton

Working Radius (m)	Boom length (m)										Working Radius (m)
	48	51	54	57	60	63	66	69	72	75	
10.0	36.0 /10.6	36.0 /11.2	36.0 /11.7								10.0
12.0	36.0	36.0	36.0	36.0 /12.3	24.0 /12.9	24.0 /13.5					12.0
14.0	33.8	33.3	32.5	31.8	24.0	24.0	24.0	24.0 /14.5	23.7 /15.1	21.0 /15.6	14.0
16.0	27.9	27.8	27.6	27.2	24.0	24.0	24.0	24.0	23.2	20.8	16.0
18.0	23.6	23.5	23.3	23.1	22.9	22.4	21.8	21.3	20.7	20.0	18.0
20.0	20.3	20.2	20.0	19.8	19.8	19.6	19.1	18.6	18.0	17.5	20.0
22.0	17.7	17.5	17.3	17.2	17.1	16.9	16.8	16.3	15.8	15.4	22.0
24.0	15.6	15.4	15.2	15.0	15.0	14.8	14.6	14.4	14.0	13.6	24.0
26.0	13.8	13.6	13.4	13.3	13.2	13.0	12.8	12.7	12.5	12.0	26.0
28.0	12.3	12.1	11.9	11.8	11.7	11.5	11.3	11.2	10.9	10.7	28.0
30.0	11.0	10.9	10.7	10.5	10.4	10.2	10.1	9.9	9.7	9.5	30.0
32.0	9.9	9.8	9.6	9.4	9.3	9.1	8.9	8.8	8.6	8.4	32.0
34.0	9.0	8.8	8.6	8.4	8.4	8.1	8.0	7.8	7.6	7.4	34.0
36.0	8.1	8.0	7.8	7.6	7.5	7.3	7.1	7.0	6.7	6.6	36.0
38.0	7.4	7.2	7.0	6.8	6.8	6.5	6.4	6.2	6.0	5.8	38.0
40.0	6.7	6.6	6.3	6.2	6.1	5.9	5.7	5.5	5.3	5.1	40.0
42.0	6.1	6.0	5.8	5.6	5.5	5.3	5.1	4.9	4.7	4.5	42.0
44.0	5.8 /43.1	5.4	5.2	5.0	4.9	4.7	4.6	4.4	4.2	4.0	44.0
46.0		5.0 /45.7	4.7	4.6	4.5	4.2	4.1	3.9	3.7	3.5	46.0
48.0			4.3	4.1	4.0	3.8	3.6	3.4	3.2	3.0	48.0
50.0			4.2 /48.3	3.7	3.6	3.4	3.2	3.0	2.8	2.6	50.0
52.0				3.6 /50.9	3.2	3.0	2.8	2.7	2.4	2.3	52.0
54.0					3.0 /53.2	2.7	2.5	2.3	2.1	1.9	54.0
56.0						2.4 /55.8	2.2	2.0	1.8	1.6	56.0
58.0							1.9	1.7	1.5	1.4 /57.3	58.0
60.0							1.8 /58.4	1.4	1.4 /58.6		60.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The counter weight is 49.6 tons.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity (t)	Hook Weight (t)	Maximum rated loads (t)									
		10falls	9falls	8falls	7falls	6falls	5falls	4falls	3falls	2falls	1fall
120	1.64	120	108	96	84	72	60	48	36	24	
80	1.35				80	72	60	48	36	24	
35	0.90								35	24	
12	0.51										12

7. When performing repetitive work using buckets, lifting magnets, etc., the higher the load factor, the shorter the life of the structure (boom, frame, winch, etc.).
8. If the value is less than 1.4 tons after deduction of jib hook weight from the rated load shown above, operation is not available.

Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	24								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
9.7	12.0								9.7
10.0	12.0		12.0 /11.8						10.0
12.0	12.0	12.0 /12.6	12.0		8.8 /13.9				12.0
14.0	12.0	12.0	12.0		8.8				14.0
16.0	12.0	12.0	12.0	9.0 /16.5	8.8		5.4		16.0
18.0	12.0	12.0	12.0	9.0	8.6		5.1		18.0
20.0	12.0	12.0	12.0	9.0	8.3	6.4 /20.4	4.8		20.0
22.0	12.0	11.7	12.0	9.0	7.9	6.4	4.5		22.0
24.0	12.0	11.2	12.0	9.0	7.6	6.4	4.3	3.4 /24.3	24.0
26.0	12.0	10.8	12.0	8.7	7.3	6.4	4.1	3.4	26.0
28.0	12.0	10.4	11.9	8.3	7.0	6.4	3.9	3.3	28.0
30.0	12.0	10.2	11.1	8.0	6.8	6.2	3.7	3.1	30.0
32.0	11.4	10.0	10.4	7.7	6.6	5.9	3.6	3.0	32.0
34.0	11.3 /32.2	9.9 /32.8	9.8	7.5	6.4	5.7	3.4	2.9	34.0
36.0			9.3	7.3	6.2	5.4	3.3	2.9	36.0
38.0			8.9 /37.9	7.2	6.1	5.3	3.2	2.8	38.0
40.0				7.2 /38.8	5.9	5.1	3.1	2.7	40.0
42.0					5.8	5.0	3.0	2.7	42.0
44.0					5.8 /43.5	4.9	2.9	2.6	44.0
46.0						4.9 /44.8	2.8	2.6	46.0
48.0							2.7	2.6	48.0
50.0							2.7 /49.2	2.6	50.0
52.0								2.6 /50.8	52.0

Unit: ton

Boom length (m)	27								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
10.0	12.0 /10.2								10.0
12.0	12.0	12.0 /13.2	12.0 /12.3						12.0
14.0	12.0	12.0	12.0		8.8 /14.4				14.0
16.0	12.0	12.0	12.0	9.0 /17.1	8.8		5.4 /16.5		16.0
18.0	12.0	12.0	12.0	9.0	8.8		5.2		18.0
20.0	12.0	12.0	12.0	9.0	8.4	6.4 /21.0	4.9		20.0
22.0	12.0	12.0	12.0	9.0	8.1	6.4	4.6		22.0
24.0	12.0	11.5	12.0	9.0	7.8	6.4	4.4	3.4 /24.9	24.0
26.0	12.0	11.1	12.0	8.9	7.5	6.4	4.2	3.4	26.0
28.0	12.0	10.7	12.0	8.5	7.2	6.4	4.0	3.3	28.0
30.0	12.0	10.4	11.8	8.2	7.0	6.3	3.8	3.2	30.0
32.0	11.2	10.2	11.1	7.9	6.7	6.1	3.7	3.1	32.0
34.0	10.2	10.0	10.4		6.5	5.8	3.5	3.0	34.0
36.0	9.9 /34.8	9.7 /35.4	9.8	7.5	6.4	5.6	3.4	2.9	36.0
38.0			9.0	7.3	6.2	5.4	3.3	2.8	38.0
40.0			8.3	7.2	6.1	5.2	3.2	2.8	40.0
42.0			8.2 /40.5	7.2 /41.4	5.9	5.1	3.1	2.7	42.0
44.0					5.9	5.0	3.0	2.7	44.0
46.0					5.8	4.9	2.9	2.6	46.0
48.0					5.8 /46.1	4.8 /47.4	2.8	2.6	48.0
50.0							2.8	2.6	50.0
52.0							2.7 /51.7	2.6	52.0
54.0								2.6 /53.4	54.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The offset angles shown are of jib boom offset angle against the main boom, under load.
6. The counter weight is 49.6 tons.
7. Hook weights are shown in the table below.

Hook Capacity (t)	Hook Weight (t)
120	1.64
80	1.35
35	0.90
12	0.51

8. If the value is less than 1.4 tons after deduction of boom hook weight from the rated load shown above, operation is not available.

Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	30								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
10.7	12.0								10.7
12.0	12.0	12.0 /13.7	12.0 /12.8						12.0
14.0	12.0	12.0	12.0		8.8 /15.0				14.0
16.0	12.0	12.0	12.0	9.0 /17.6	8.8		5.4 /17.1		16.0
18.0	12.0	12.0	12.0	9.0	8.8		5.2		18.0
20.0	12.0	12.0	12.0	9.0	8.6	6.4 /21.5	5.0		20.0
22.0	12.0	12.0	12.0	9.0	8.2	6.4	4.7		22.0
24.0	12.0	11.8	12.0	9.0	7.9	6.4	4.5	3.4 /25.4	24.0
26.0	12.0	11.4	12.0	9.0	7.6	6.4	4.3	3.4	26.0
28.0	12.0	11.0	12.0	8.7	7.4	6.4	4.1	3.3	28.0
30.0	12.0	10.7	12.0	8.4	7.1	6.4	3.9	3.2	30.0
32.0	11.1	10.4	11.4	8.1	6.9	6.2	3.8	3.1	32.0
34.0	10.1	10.2	10.5	7.9	6.7	6.0	3.6	3.0	34.0
36.0	9.3	9.4	9.6	7.7	6.5	5.8	3.5	2.9	36.0
38.0	8.7 /37.4	8.6	8.8	7.5	6.3	5.6	3.4	2.9	38.0
40.0			8.2	7.3	6.2	5.4	3.2	2.8	40.0
42.0			7.6	7.2	6.1	5.2	3.1	2.7	42.0
44.0			7.3 /43.1	7.1	6.0	5.1	3.0	2.7	44.0
46.0					5.9	5.0	3.0	2.7	46.0
48.0					5.8	4.9	2.9	2.6	48.0
50.0					5.8 /48.7	4.8	2.8	2.6	50.0
52.0							2.8	2.6	52.0
54.0							2.7	2.6	54.0
56.0							2.7 /54.3	2.6	56.0

Unit: ton

Boom length (m)	33								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
10.7	12.0 /11.3								10.7
12.0	12.0		12.0 /13.4						12.0
14.0	12.0	12.0 /14.3	12.0		8.8 /15.5				14.0
16.0	12.0	12.0	12.0		8.8		5.4 /17.6		16.0
18.0	12.0	12.0	12.0	9.0 /18.2	8.8		5.3		18.0
20.0	12.0	12.0	12.0	9.0	8.7		5.0		20.0
22.0	12.0	12.0	12.0	9.0	8.4	6.4 /22.1	4.8		22.0
24.0	12.0	12.0	12.0	9.0	8.1	6.4	4.6		24.0
26.0	12.0	11.7	12.0	9.0	7.8	6.4	4.4	3.4	26.0
28.0	12.0	11.3	12.0	8.9	7.5	6.4	4.2	3.4	28.0
30.0	12.0	11.0	12.0	8.6	7.3	6.4	4.0	3.2	30.0
32.0	10.9	10.7	11.3	8.3	7.0	6.4	3.9	3.1	32.0
34.0	9.9	10.1	10.3	8.1	6.8	6.1	3.7	3.1	34.0
36.0	9.1	9.2	9.4	7.9	6.7	5.9	3.6	3.0	36.0
38.0	8.3	8.4	8.7	7.7	6.5	5.7	3.5	2.9	38.0
40.0	7.7	7.7	8.0	7.5	6.3	5.5	3.3	2.8	40.0
42.0		7.5 /40.6	7.4	7.3	6.2	5.3	3.2	2.8	42.0
44.0			6.8	7.0	6.1	5.2	3.1	2.7	44.0
46.0			6.4 /45.7	6.4	6.0	5.1	3.0	2.7	46.0
48.0				6.3 /46.6	5.9	5.0	3.0	2.7	48.0
50.0					5.7	4.9	2.9	2.6	50.0
52.0					5.4 /51.3	4.8	2.8	2.6	52.0
54.0						4.8 /52.6	2.8	2.6	54.0
56.0							2.7	2.6	56.0
58.0							2.7 /56.9	2.6	58.0
60.0								2.6 /58.6	60.0

•For notes about the table above, refer to page 19.

■ Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	36								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
11.8	12.0								11.8
12.0	12.0		12.0 /13.9						12.0
14.0	12.0	12.0 /14.8	12.0						14.0
16.0	12.0	12.0	12.0		8.8				16.0
18.0	12.0	12.0	12.0	9.0 /18.7	8.8		5.4 /18.1		18.0
20.0	12.0	12.0	12.0	9.0	8.8		5.1		20.0
22.0	12.0	12.0	12.0	9.0	8.5	6.4 /22.6	4.9		22.0
24.0	12.0	12.0	12.0	9.0	8.2	6.4	4.7		24.0
26.0	12.0	11.9	12.0	9.0	7.9	6.4	4.5	3.4 /26.5	26.0
28.0	12.0	11.5	12.0	9.0	7.7	6.4	4.3	3.4	28.0
30.0	11.8	11.2	12.0	8.8	7.4	6.4	4.1	3.3	30.0
32.0	10.7	10.9	11.1	8.5	7.2	6.4	4.0	3.2	32.0
34.0	9.7	10.0	10.1	8.3	7.0	6.2	3.8	3.1	34.0
36.0	8.9	9.1	9.2	8.0	6.8	6.0	3.7	3.0	36.0
38.0	8.1	8.3	8.5	7.8	6.6	5.8	3.5	2.9	38.0
40.0	7.5	7.6	7.8	7.6	6.5	5.6	3.4	2.9	40.0
42.0	6.9	6.9	7.2	7.4	6.3	5.5	3.3	2.8	42.0
44.0	6.7 /42.6	6.6 /43.2	6.6	6.8	6.2	5.3	3.2	2.8	44.0
46.0			6.1	6.3	6.1	5.2	3.1	2.7	46.0
48.0			5.7	5.8	5.9	5.1	3.0	2.7	48.0
50.0			5.6 /48.3	5.5 /49.2	5.5	5.0	3.0	2.6	50.0
52.0					5.1	4.9	2.9	2.6	52.0
54.0					4.8 /53.9	4.8	2.8	2.6	54.0
56.0						4.6 /55.2	2.8	2.6	56.0
58.0							2.7	2.6	58.0
60.0							2.7 /59.5	2.6	60.0
62.0								2.6 /61.2	62.0

Unit: ton

Boom length (m)	39								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
12.0	12.0 /12.4								12.0
14.0	12.0	12.0 /15.4	12.0 /14.5						14.0
16.0	12.0	12.0	12.0		8.8 /16.6				16.0
18.0	12.0	12.0	12.0	9.0 /19.3	8.8		5.3 /18.7		18.0
20.0	12.0	12.0	12.0	9.0	8.8		5.2		20.0
22.0	12.0	12.0	12.0	9.0	8.6	6.4 /23.2	5.0		22.0
24.0	12.0	12.0	12.0	9.0	8.3	6.4	4.7		24.0
26.0	12.0	12.0	12.0	9.0	8.0	6.4	4.5	3.4 /27.1	26.0
28.0	12.0	11.8	12.0	9.0	7.8	6.4	4.4	3.4	28.0
30.0	11.6	11.4	12.0	8.9	7.6	6.4	4.2	3.3	30.0
32.0	10.5	10.8	10.9	8.7	7.3	6.4	4.0	3.2	32.0
34.0	9.6	9.8	9.9	8.4	7.1	6.4	3.9	3.1	34.0
36.0	8.7	8.9	9.1	8.2	6.9	6.1	3.8	3.0	36.0
38.0	8.0	8.1	8.3	8.0	6.8	5.9	3.6	3.0	38.0
40.0	7.3	7.4	7.6	7.8	6.6	5.8	3.5	2.9	40.0
42.0	6.7	6.8	7.0	7.3	6.4	5.6	3.4	2.8	42.0
44.0	6.1	6.2	6.5	6.7	6.3	5.4	3.3	2.8	44.0
46.0	5.8 /45.2	5.7 /45.8	6.0	6.1	6.2	5.3	3.2	2.7	46.0
48.0			5.5	5.6	5.7	5.2	3.1	2.7	48.0
50.0			5.1	5.2	5.3	5.1	3.0	2.7	50.0
52.0			4.9 /50.9	4.8 /51.8	4.9	5.0	3.0	2.6	52.0
54.0					4.6	4.7	2.9	2.6	54.0
56.0					4.2	4.4	2.8	2.6	56.0
58.0					4.2 /56.5	4.1 /57.8	2.8	2.6	58.0
60.0							2.7	2.6	60.0
62.0							2.7	2.6	62.0
64.0							2.7 /62.1	2.6 /63.8	64.0

・For notes about the table above, refer to page 19.

■ Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	42								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
12.9	12.0								12.9
14.0	12.0	12.0 /15.9	12.0 /15.0						14.0
16.0	12.0	12.0	12.0		8.8 /17.1				16.0
18.0	12.0	12.0	12.0	9.0 /19.8	8.8		5.3 /19.2		18.0
20.0	12.0	12.0	12.0	9.0	8.8		5.2		20.0
22.0	12.0	12.0	12.0	9.0	8.7	6.4 /23.7	5.0		22.0
24.0	12.0	12.0	12.0	9.0	8.4	6.4	4.8		24.0
26.0	12.0	12.0	12.0	9.0	8.2	6.4	4.6	3.4 /27.6	26.0
28.0	12.0	12.0	12.0	9.0	7.9	6.4	4.4	3.4	28.0
30.0	11.5	11.6	11.9	9.0	7.7	6.4	4.3	3.3	30.0
32.0	10.4	10.7	10.8	8.8	7.5	6.4	4.1	3.2	32.0
34.0	9.4	9.7	9.8	8.6	7.3	6.4	4.0	3.1	34.0
36.0	8.6	8.8	8.9	8.3	7.1	6.3	3.8	3.1	36.0
38.0	7.8	8.0	8.2	8.1	6.9	6.1	3.7	3.0	38.0
40.0	7.2	7.3	7.5	7.8	6.7	5.9	3.6	2.9	40.0
42.0	6.5	6.7	6.9	7.2	6.6	5.7	3.5	2.9	42.0
44.0	6.0	6.1	6.3	6.6	6.4	5.5	3.4	2.8	44.0
46.0	5.5	5.6	5.8	6.0	6.0	5.4	3.3	2.8	46.0
48.0	5.1 /47.8	5.1	5.4	5.5	5.6	5.3	3.2	2.7	48.0
50.0		5.0 /48.4	4.9	5.1	5.2	5.2	3.1	2.7	50.0
52.0			4.6	4.7	4.8	5.0	3.0	2.6	52.0
54.0			4.3 /53.5	4.3	4.4	4.6	2.9	2.6	54.0
56.0				4.2 /54.4	4.1	4.3	2.9	2.6	56.0
58.0					3.8	3.9	2.8	2.6	58.0
60.0					3.6 /59.1	3.6	2.8	2.6	60.0
62.0						3.5 /60.4	2.7	2.6	62.0
64.0							2.7	2.6	64.0
66.0							2.7 /64.7	2.6	66.0
68.0								2.6 /66.4	68.0

Unit: ton

Boom length (m)	45								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
12.9	12.0 /13.5								12.9
14.0	12.0		12.0 /15.6						14.0
16.0	12.0	12.0 /16.5	12.0		8.8 /17.7				16.0
18.0	12.0	12.0	12.0		8.8		5.3 /19.8		18.0
20.0	12.0	12.0	12.0	9.0 /20.4	8.8		5.3		20.0
22.0	12.0	12.0	12.0	9.0	8.8		5.1		22.0
24.0	12.0	12.0	12.0	9.0	8.5	6.4 /24.3	4.9		24.0
26.0	12.0	12.0	12.0	9.0	8.3	6.4	4.7		26.0
28.0	12.0	12.0	12.0	9.0	8.0	6.4	4.5	3.4 /28.2	28.0
30.0	11.3	11.7	11.7	9.0	7.8	6.4	4.3	3.3	30.0
32.0	10.2	10.5	10.6	9.0	7.6	6.4	4.2	3.3	32.0
34.0	9.2	9.5	9.6	8.7	7.4	6.4	4.0	3.2	34.0
36.0	8.4	8.6	8.7	8.5	7.2	6.4	3.9	3.1	36.0
38.0	7.6	7.8	7.9	8.3	7.0	6.2	3.8	3.0	38.0
40.0	6.9	7.1	7.3	7.6	6.8	6.0	3.7	3.0	40.0
42.0	6.3	6.5	6.6	7.0	6.7	5.8	3.5	2.9	42.0
44.0	5.8	5.9	6.1	6.4	6.3	5.7	3.4	2.8	44.0
46.0	5.3	5.4	5.6	5.8	5.8	5.5	3.3	2.8	46.0
48.0	4.8	4.9	5.1	5.3	5.4	5.4	3.3	2.7	48.0
50.0	4.4	4.5	4.7	4.9	4.9	5.3	3.2	2.7	50.0
52.0	4.3 /50.4	4.3 /51.0	4.3	4.5	4.6	4.8	3.1	2.7	52.0
54.0			4.0	4.1	4.2	4.5	3.0	2.6	54.0
56.0			3.6	3.7	3.9	4.1	2.9	2.6	56.0
58.0			3.6 /56.1	3.6 /57.0	3.6	3.7	2.9	2.6	58.0
60.0					3.3	3.4	2.8	2.6	60.0
62.0					3.1 /61.7	3.1	2.8	2.6	62.0
64.0						3.0 /63.0	2.7	2.6	64.0
66.0							2.7	2.6	66.0
68.0							2.6 /67.3	2.6	68.0
70.0								2.5 /69.0	70.0

•For notes about the table above, refer to page 19.

■ Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	48								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
14.0	12.0								14.0
16.0	12.0	12.0 /17.0	12.0 /16.1						16.0
18.0	12.0	12.0	12.0		8.8 /18.2				18.0
20.0	12.0	12.0	12.0	9.0 /20.9	8.8		5.3 /20.3		20.0
22.0	12.0	12.0	12.0	9.0	8.8		5.1		22.0
24.0	12.0	12.0	12.0	9.0	8.6	6.4 /24.8	4.9		24.0
26.0	12.0	12.0	12.0	9.0	8.4	6.4	4.8		26.0
28.0	12.0	12.0	12.0	9.0	8.1	6.4	4.6	3.4 /28.7	28.0
30.0	11.2	11.6	11.6	9.0	7.9	6.4	4.4	3.4	30.0
32.0	10.1	10.4	10.5	9.0	7.7	6.4	4.3	3.3	32.0
34.0	9.1	9.4	9.5	8.8	7.5	6.4	4.1	3.2	34.0
36.0	8.2	8.5	8.6	8.6	7.3	6.4	4.0	3.1	36.0
38.0	7.5	7.7	7.8	8.3	7.1	6.3	3.9	3.1	38.0
40.0	6.8	7.0	7.1	7.5	7.0	6.1	3.7	3.0	40.0
42.0	6.2	6.4	6.5	6.9	6.8	5.9	3.6	2.9	42.0
44.0	5.6	5.8	6.0	6.3	6.2	5.8	3.5	2.9	44.0
46.0	5.1	5.3	5.5	5.7	5.7	5.6	3.4	2.8	46.0
48.0	4.7	4.8	5.0	5.3	5.2	5.5	3.3	2.8	48.0
50.0	4.3	4.4	4.6	4.8	4.8	5.2	3.2	2.7	50.0
52.0	3.9	4.0	4.2	4.4	4.4	4.8	3.2	2.7	52.0
54.0	3.7 /53.0	3.7 /53.6	3.8	4.0	4.1	4.4	3.1	2.7	54.0
56.0			3.5	3.6	3.7	4.0	3.0	2.6	56.0
58.0			3.2	3.3	3.4	3.6	2.9	2.6	58.0
60.0			3.1 /58.7	3.0 /59.6	3.1	3.3	2.9	2.6	60.0
62.0					2.9	3.0	2.8	2.6	62.0
64.0					2.6	2.7	2.8	2.6	64.0
66.0					2.6 /64.3	2.5 /65.6	2.5	2.6	66.0
68.0							2.3	2.5	68.0
70.0							2.1 /69.9	2.3	70.0
72.0								2.1 /71.6	72.0

Unit: ton

Boom length (m)	51								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
14.0	12.0 /14.6								14.0
16.0	12.0	12.0 /17.6	12.0 /16.7						16.0
18.0	12.0	12.0	12.0		8.8 /18.8				18.0
20.0	12.0	12.0	12.0	9.0 /21.5	8.8		5.3 /20.9		20.0
22.0	12.0	12.0	12.0	9.0	8.8		5.2		22.0
24.0	12.0	12.0	12.0	9.0	8.7	6.4 /25.4	5.0		24.0
26.0	12.0	12.0	12.0	9.0	8.5	6.4	4.8		26.0
28.0	12.0	12.0	12.0	9.0	8.2	6.4	4.6	3.4 /29.3	28.0
30.0	11.0	11.5	11.4	9.0	8.0	6.4	4.5	3.4	30.0
32.0	9.9	10.3	10.3	9.0	7.8	6.4	4.3	3.3	32.0
34.0	8.9	9.3	9.3	9.0	7.6	6.4	4.2	3.2	34.0
36.0	8.1	8.4	8.4	8.7	7.4	6.4	4.0	3.1	36.0
38.0	7.3	7.6	7.6	8.1	7.2	6.4	3.9	3.1	38.0
40.0	6.6	6.9	7.0	7.4	7.1	6.2	3.8	3.0	40.0
42.0	6.0	6.2	6.3	6.7	6.6	6.0	3.7	2.9	42.0
44.0	5.5	5.6	5.8	6.1	6.0	5.9	3.6	2.9	44.0
46.0	5.0	5.1	5.3	5.6	5.5	5.7	3.5	2.8	46.0
48.0	4.5	4.6	4.8	5.1	5.1	5.5	3.4	2.8	48.0
50.0	4.1	4.2	4.4	4.6	4.6	5.0	3.3	2.7	50.0
52.0	3.7	3.8	4.0	4.2	4.2	4.6	3.2	2.7	52.0
54.0	3.4	3.4	3.6	3.8	3.9	4.2	3.1	2.7	54.0
56.0	3.1 /55.6	3.1	3.3	3.5	3.5	3.8	3.1	2.6	56.0
58.0		3.1 /56.2	3.0	3.1	3.2	3.5	3.0	2.6	58.0
60.0			2.7	2.8	2.9	3.2	2.9	2.6	60.0
62.0			2.6 /61.3	2.5	2.7	2.9	2.9	2.6	62.0
64.0				2.5 /62.2	2.4	2.6	2.6	2.6	64.0
66.0					2.2	2.3	2.4	2.6	66.0
68.0					2.1 /66.9	2.1	2.1	2.4	68.0
70.0						2.0 /68.2	1.9	2.1	70.0
72.0								1.9	72.0

• For notes about the table above, refer to page 19.

■ Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	54								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
15.1	12.0								15.1
16.0	12.0		12.0 /17.2						16.0
18.0	12.0	12.0 /18.1	12.0		8.8 /19.3				18.0
20.0	12.0	12.0	12.0		8.8		5.3 /21.4		20.0
22.0	12.0	12.0	12.0	9.0	8.8		5.2		22.0
24.0	12.0	12.0	12.0	9.0	8.8	6.4 /25.9	5.0		24.0
26.0	12.0	12.0	12.0	9.0	8.6	6.4	4.9		26.0
28.0	12.0	12.0	12.0	9.0	8.3	6.4	4.7	3.4 /29.8	28.0
30.0	10.8	11.3	11.2	9.0	8.1	6.4	4.5	3.4	30.0
32.0	9.7	10.1	10.1	9.0	7.9	6.4	4.4	3.3	32.0
34.0	8.7	9.1	9.1	9.0	7.7	6.4	4.2	3.2	34.0
36.0	7.8	8.2	8.2	8.8	7.5	6.4	4.1	3.2	36.0
38.0	7.1	7.4	7.4	7.9	7.3	6.4	4.0	3.1	38.0
40.0	6.4	6.7	6.7	7.2	7.0	6.3	3.9	3.0	40.0
42.0	5.8	6.0	6.1	6.5	6.4	6.1	3.8	3.0	42.0
44.0	5.2	5.4	5.6	5.9	5.8	5.9	3.6	2.9	44.0
46.0	4.7	4.9	5.0	5.4	5.3	5.8	3.5	2.9	46.0
48.0	4.3	4.4	4.6	4.9	4.8	5.3	3.5	2.8	48.0
50.0	3.9	4.0	4.2	4.4	4.4	4.9	3.4	2.8	50.0
52.0	3.5	3.6	3.8	4.0	4.0	4.4	3.3	2.7	52.0
54.0	3.1	3.2	3.4	3.6	3.7	4.0	3.2	2.7	54.0
56.0	2.8	2.9	3.1	3.3	3.3	3.7	3.1	2.7	56.0
58.0	2.5	2.6	2.8	2.9	3.0	3.3	3.1	2.6	58.0
60.0	2.5 /58.2	2.4 /58.8	2.5	2.6	2.7	3.0	2.9	2.6	60.0
62.0			2.2	2.3	2.5	2.7	2.6	2.6	62.0
64.0			2.0 /63.9	2.1	2.2	2.4	2.4	2.6	64.0
66.0				2.0 /64.8	2.0	2.1	2.1	2.4	66.0
68.0					1.9 /67.0	1.9	1.9	2.2	68.0
70.0								1.9	70.0

Unit: ton

Boom length (m)	57								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
15.1	12.0 /15.7								15.1
16.0	12.0		12.0 /17.8						16.0
18.0	12.0	12.0 /18.7	12.0		8.8 /19.9				18.0
20.0	12.0	12.0	12.0		8.8				20.0
22.0	12.0	12.0	12.0	9.0 /22.6	8.8		5.3		22.0
24.0	12.0	12.0	12.0	9.0	8.8		5.1		24.0
26.0	12.0	12.0	12.0	9.0	8.7	6.4 /26.5	4.9		26.0
28.0	11.9	12.0	12.0	9.0	8.4	6.4	4.8		28.0
30.0	10.6	11.1	11.0	9.0	8.2	6.4	4.6	3.4 /30.4	30.0
32.0	9.5	9.9	9.9	9.0	8.0	6.4	4.4	3.3	32.0
34.0	8.5	8.9	8.9	9.0	7.8	6.4	4.3	3.3	34.0
36.0	7.7	8.0	8.0	8.6	7.6	6.4	4.2	3.2	36.0
38.0	6.9	7.2	7.2	7.8	7.4	6.4	4.0	3.1	38.0
40.0	6.2	6.5	6.5	7.1	6.8	6.4	3.9	3.1	40.0
42.0	5.6	5.9	5.9	6.4	6.2	6.2	3.8	3.0	42.0
44.0	5.0	5.3	5.4	5.8	5.6	6.0	3.7	2.9	44.0
46.0	4.5	4.7	4.9	5.2	5.1	5.7	3.6	2.9	46.0
48.0	4.1	4.3	4.4	4.7	4.7	5.2	3.5	2.8	48.0
50.0	3.7	3.8	4.0	4.3	4.2	4.7	3.4	2.8	50.0
52.0	3.3	3.4	3.6	3.9	3.8	4.3	3.3	2.7	52.0
54.0	2.9	3.1	3.2	3.5	3.5	3.9	3.3	2.7	54.0
56.0	2.6	2.7	2.9	3.1	3.1	3.5	3.2	2.7	56.0
58.0	2.3	2.4	2.6	2.8	2.8	3.2	3.0	2.6	58.0
60.0	2.0	2.1	2.3	2.5	2.5	2.8	2.7	2.6	60.0
62.0	1.9 /60.8	1.9 /61.4	2.0	2.2	2.3	2.5	2.5	2.6	62.0
64.0			1.9 /63.0	1.9	2.0	2.3	2.2	2.6	64.0
66.0					1.9 /65.0	2.0	2.0	2.3	66.0
68.0						1.9 /66.6	1.9 /66.6	2.0	68.0
70.0								1.9 /69.0	70.0

•For notes about the table above, refer to page 19.

Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	60								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
16.2	12.0								16.2
18.0	12.0	12.0 /19.2	12.0 /18.3						18.0
20.0	12.0	12.0	12.0		8.8 /20.4				20.0
22.0	12.0	12.0	12.0	9.0 /23.1	8.8		5.3 /22.5		22.0
24.0	12.0	12.0	12.0	9.0	8.8		5.1		24.0
26.0	12.0	12.0	12.0	9.0	8.8	6.4 /27.0	5.0		26.0
28.0	11.9	12.0	12.0	9.0	8.5	6.4	4.8		28.0
30.0	10.5	11.1	10.9	9.0	8.3	6.4	4.6	3.4 /30.9	30.0
32.0	9.4	9.9	9.8	9.0	8.1	6.4	4.5	3.3	32.0
34.0	8.4	8.9	8.8	9.0	7.9	6.4	4.4	3.3	34.0
36.0	7.6	7.9	7.9	8.6	7.7	6.4	4.2	3.2	36.0
38.0	6.8	7.1	7.2	7.7	7.4	6.4	4.1	3.1	38.0
40.0	6.1	6.4	6.5	7.0	6.7	6.4	4.0	3.1	40.0
42.0	5.5	5.8	5.8	6.3	6.1	6.3	3.9	3.0	42.0
44.0	4.9	5.2	5.3	5.7	5.5	6.1	3.8	3.0	44.0
46.0	4.4	4.7	4.8	5.2	5.0	5.6	3.7	2.9	46.0
48.0	4.0	4.2	4.3	4.7	4.6	5.1	3.6	2.9	48.0
50.0	3.6	3.7	3.9	4.2	4.1	4.6	3.5	2.8	50.0
52.0	3.2	3.3	3.5	3.8	3.7	4.2	3.4	2.8	52.0
54.0	2.8	3.0	3.1	3.4	3.4	3.8	3.3	2.7	54.0
56.0	2.5	2.6	2.8	3.0	3.0	3.4	3.2	2.7	56.0
58.0	2.2	2.3	2.5	2.7	2.7	3.1	2.9	2.7	58.0
60.0	1.9	2.0	2.2	2.4	2.4	2.8	2.6	2.6	60.0
62.0		1.9 /60.6	1.9	2.1	2.1	2.5	2.3	2.6	62.0
64.0				1.9 /63.3	1.9	2.2	2.1	2.5	64.0
66.0						1.9	1.9 /65.6	2.2	66.0
68.0								2.0	68.0
70.0								1.9 /68.6	70.0

Unit: ton

Boom length (m)	63								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
16.2	12.0 /16.8								16.2
18.0	12.0	12.0 /19.8	12.0 /18.9						18.0
20.0	12.0	12.0	12.0		8.8 /21.0				20.0
22.0	12.0	12.0	12.0	9.0 /23.7	8.8		5.3 /23.1		22.0
24.0	12.0	12.0	12.0	9.0	8.8		5.2		24.0
26.0	12.0	12.0	12.0	9.0	8.8	6.4 /27.5	5.0		26.0
28.0	11.6	12.0	12.0	9.0	8.6	6.4	4.9		28.0
30.0	10.3	10.9	10.7	9.0	8.4	6.4	4.7	3.4 /31.4	30.0
32.0	9.2	9.7	9.6	9.0	8.2	6.4	4.6	3.4	32.0
34.0	8.2	8.7	8.6	9.0	8.0	6.4	4.4	3.3	34.0
36.0	7.3	7.8	7.7	8.4	7.8	6.4	4.3	3.2	36.0
38.0	6.6	7.0	6.9	7.6	7.2	6.4	4.2	3.2	38.0
40.0	5.9	6.2	6.2	6.8	6.5	6.4	4.0	3.1	40.0
42.0	5.3	5.6	5.6	6.1	5.9	6.4	3.9	3.0	42.0
44.0	4.7	5.0	5.1	5.5	5.3	6.0	3.8	3.0	44.0
46.0	4.2	4.5	4.5	5.0	4.8	5.5	3.7	2.9	46.0
48.0	3.8	4.0	4.1	4.5	4.3	4.9	3.6	2.9	48.0
50.0	3.3	3.5	3.6	4.0	3.9	4.5	3.5	2.8	50.0
52.0	2.9	3.1	3.3	3.6	3.5	4.0	3.5	2.8	52.0
54.0	2.6	2.8	2.9	3.2	3.1	3.6	3.4	2.7	54.0
56.0	2.3	2.4	2.6	2.8	2.8	3.2	3.0	2.7	56.0
58.0	2.0	2.1	2.3	2.5	2.5	2.9	2.7	2.7	58.0
60.0	1.9 /58.6	1.9 /59.3	2.0	2.2	2.2	2.6	2.4	2.7	60.0
62.0			1.9 /60.6	1.9	1.9	2.3	2.1	2.6	62.0
64.0						2.0	1.9 /63.6	2.3	64.0
66.0						1.9 /64.6		2.0	66.0
68.0								1.9 /67.0	68.0

•For notes about the table above, refer to page 19.

Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	24								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
6.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	6.3
7.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	7.0
8.0	74.3	74.0	73.7	73.2	73.1	72.4	72.5	71.4	8.0
9.0	63.5	63.1	62.8	62.1	62.0	61.0	61.1	59.7	9.0
10.0	54.1	53.8	53.5	52.9	52.7	51.8	51.8	50.6	10.0
12.0	41.4	41.2	40.8	40.4	40.0	39.4	39.2	38.4	12.0
14.0	33.2	33.0	32.6	32.2	31.9	31.4	31.1	30.5	14.0
16.0	27.4	27.3	26.8	26.6	26.1	25.8	25.4	24.9	16.0
18.0	23.1	23.0	22.6	22.4	21.9	21.7	21.2	20.9	18.0
20.0	19.9	19.8	19.3	19.2	18.7	18.5	18.0	17.8	20.0
22.0	17.3	17.2	16.8	16.7	16.1	16.1	15.5	15.4	22.0
24.0	16.9 /22.3	16.9 /22.3	16.4 /22.3	16.4 /22.3	15.8 /22.3	15.7 /22.3	15.1 /22.3	15.1 /22.3	24.0

Unit: ton

Boom length (m)	27								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
6.3	80.0 /6.8	80.0 /6.8	80.0 /6.8	80.0 /6.8	80.0 /6.8	80.0 /6.8	80.0 /6.8	80.0 /6.8	6.3
7.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	7.0
8.0	74.1	73.8	73.6	73.1	73.0	72.2	72.4	71.3	8.0
9.0	63.5	63.1	62.8	62.1	62.1	61.0	61.2	59.7	9.0
10.0	54.1	53.8	53.5	52.9	52.7	51.8	51.9	50.7	10.0
12.0	41.3	41.1	40.7	40.3	40.0	39.4	39.3	38.4	12.0
14.0	33.1	32.9	32.5	32.2	31.8	31.4	31.1	30.4	14.0
16.0	27.3	27.2	26.7	26.5	26.1	25.7	25.4	24.9	16.0
18.0	23.0	22.9	22.5	22.3	21.9	21.6	21.2	20.8	18.0
20.0	19.8	19.7	19.2	19.1	18.6	18.4	18.0	17.7	20.0
22.0	17.2	17.1	16.7	16.6	16.1	15.9	15.4	15.2	22.0
24.0	15.1	15.0	14.6	14.5	14.0	13.9	13.4	13.3	24.0
26.0	14.3 /24.9	14.2 /24.9	13.8 /24.9	13.7 /24.9	13.2 /24.9	13.1 /24.9	12.6 /24.9	12.5 /24.9	26.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The offset angles shown are of jib boom offset angle against the main boom, under load.
6. The counter weight is 49.6 tons.
7. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity (t)	Hook Weight (t)	Maximum rated loads (t)						
		7falls	6falls	5falls	4falls	3falls	2falls	1fall
120	1.64	84	72	60	48	36	24	
80	1.35	80	72	60	48	36	24	
35	0.90					35	24	
12	0.51							12

8. When performing repetitive work using buckets, lifting magnets, etc., the higher the load factor, the shorter the life of the structure (boom, frame, winch, etc.).
9. If the value is less than 1.4 tons after deduction of jib hook weight from the rated load shown above, operation is not available.

■ Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	30								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
7.4	72.0	72.0	72.0	72.0	72.0	72.0 /7.4	72.0 /7.4	72.0 /7.4	7.4
8.0	72.0	72.0	72.0	72.0	72.0	71.2	71.3	69.7	8.0
9.0	63.5	63.1	62.9	62.2	62.2	61.1	61.2	59.8	9.0
10.0	54.1	53.8	53.5	52.9	52.8	51.9	52.0	50.7	10.0
12.0	41.3	41.1	40.8	40.3	40.1	39.4	39.4	38.4	12.0
14.0	33.1	32.9	32.5	32.2	31.9	31.4	31.2	30.5	14.0
16.0	27.3	27.1	26.8	26.5	26.2	25.7	25.5	24.9	16.0
18.0	23.0	22.9	22.5	22.3	21.9	21.6	21.3	20.8	18.0
20.0	19.7	19.6	19.2	19.1	18.7	18.4	18.0	17.7	20.0
22.0	17.1	17.1	16.6	16.5	16.1	15.9	15.5	15.2	22.0
24.0	15.0	15.0	14.5	14.4	14.0	13.9	13.4	13.2	24.0
26.0	13.3	13.2	12.8	12.7	12.3	12.2	11.7	11.6	26.0
28.0	12.2 /27.5	12.1 /27.5	11.7 /27.5	11.7 /27.5	11.2 /27.5	11.1 /27.5	10.6 /27.5	10.5 /27.5	28.0

Unit: ton

Boom length (m)	33								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
7.4	72.0 /7.9	72.0 /7.9	72.0 /7.9	72.0 /7.9	71.9 /7.9	70.7 /7.9	70.9 /7.9	69.2 /7.9	7.4
8.0	72.0	72.0	71.7	70.9	70.8	69.6	69.7	68.1	8.0
9.0	62.6	62.2	61.8	61.1	61.0	60.0	60.0	58.6	9.0
10.0	54.0	53.7	53.4	52.8	52.8	51.8	52.0	50.7	10.0
12.0	41.3	41.0	40.7	40.2	40.1	39.3	39.3	38.4	12.0
14.0	33.0	32.8	32.4	32.1	31.8	31.3	31.2	30.4	14.0
16.0	27.2	27.0	26.7	26.4	26.1	25.6	25.4	24.8	16.0
18.0	22.9	22.8	22.4	22.2	21.8	21.5	21.2	20.7	18.0
20.0	19.6	19.5	19.1	18.9	18.6	18.3	18.0	17.6	20.0
22.0	17.0	16.9	16.5	16.4	16.0	15.8	15.4	15.1	22.0
24.0	14.9	14.8	14.4	14.3	13.9	13.7	13.3	13.1	24.0
26.0	13.2	13.1	12.7	12.6	12.2	12.1	11.6	11.4	26.0
28.0	11.7	11.7	11.3	11.2	10.8	10.7	10.2	10.1	28.0
30.0	10.5	10.4	10.0	10.0	9.5	9.5	9.0	8.9	30.0
32.0	10.4 /30.1	10.4 /30.1	10.0 /30.1	9.9 /30.1	9.5 /30.1	9.4 /30.1	8.9 /30.1	8.9 /30.1	32.0

・For notes about the table above, refer to page 26.

■ Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	36								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
8.5	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	8.5
9.0	60.0	60.0	60.0	59.8	59.6	58.6	58.7	57.3	9.0
10.0	53.7	53.4	53.1	52.5	52.3	51.4	51.4	50.2	10.0
12.0	41.2	40.9	40.6	40.1	40.0	39.3	39.3	38.3	12.0
14.0	32.9	32.7	32.4	32.0	31.8	31.2	31.1	30.3	14.0
16.0	27.1	26.9	26.6	26.3	26.0	25.6	25.4	24.8	16.0
18.0	22.8	22.7	22.3	22.1	21.8	21.4	21.2	20.6	18.0
20.0	19.5	19.4	19.0	18.8	18.5	18.2	17.9	17.5	20.0
22.0	16.9	16.8	16.4	16.3	15.9	15.6	15.3	15.0	22.0
24.0	14.8	14.7	14.3	14.2	13.8	13.6	13.2	13.0	24.0
26.0	13.0	13.0	12.6	12.5	12.1	11.9	11.5	11.3	26.0
28.0	11.6	11.5	11.1	11.0	10.6	10.5	10.1	9.9	28.0
30.0	10.3	10.3	9.9	9.8	9.4	9.3	8.9	8.7	30.0
32.0	9.2	9.2	8.8	8.8	8.3	8.3	7.8	7.7	32.0
34.0	8.9 /32.7	8.9 /32.7	8.5 /32.7	8.4 /32.7	8.0 /32.7	7.9 /32.7	7.5 /32.7	7.4 /32.7	34.0

Unit: ton

Boom length (m)	39								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
9.0	59.9	59.5	59.2	58.5	58.4	57.4	57.5	56.1	9.0
10.0	52.7	52.4	52.0	51.5	51.3	50.4	50.4	49.2	10.0
12.0	41.1	40.8	40.5	40.0	39.9	39.2	39.3	38.2	12.0
14.0	32.8	32.5	32.3	31.9	31.7	31.1	31.1	30.2	14.0
16.0	27.0	26.8	26.5	26.1	25.9	25.4	25.3	24.7	16.0
18.0	22.7	22.5	22.2	21.9	21.7	21.3	21.1	20.5	18.0
20.0	19.4	19.2	18.9	18.7	18.4	18.1	17.8	17.4	20.0
22.0	16.8	16.7	16.3	16.1	15.8	15.5	15.2	14.9	22.0
24.0	14.6	14.5	14.2	14.0	13.7	13.5	13.1	12.8	24.0
26.0	12.9	12.8	12.4	12.3	12.0	11.8	11.4	11.2	26.0
28.0	11.4	11.4	11.0	10.9	10.5	10.3	10.0	9.8	28.0
30.0	10.2	10.1	9.7	9.7	9.3	9.1	8.7	8.6	30.0
32.0	9.1	9.0	8.7	8.6	8.2	8.1	7.7	7.6	32.0
34.0	8.2	8.1	7.7	7.7	7.3	7.2	6.8	6.7	34.0
36.0	7.6 /35.3	7.6 /35.3	7.2 /35.3	7.2 /35.3	6.8 /35.3	6.7 /35.3	6.3 /35.3	6.2 /35.3	36.0

・For notes about the table above, refer to page 26.

■ Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	42								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
9.6	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	9.6
10.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	10.0
12.0	41.0	40.7	40.5	40.0	39.9	39.2	39.3	38.2	12.0
14.0	32.7	32.5	32.2	31.8	31.7	31.1	31.1	30.2	14.0
16.0	26.9	26.7	26.4	26.1	25.9	25.4	25.3	24.6	16.0
18.0	22.6	22.5	22.2	21.9	21.6	21.2	21.1	20.5	18.0
20.0	19.3	19.2	18.9	18.6	18.4	18.0	17.8	17.3	20.0
22.0	16.7	16.6	16.3	16.1	15.8	15.5	15.2	14.8	22.0
24.0	14.6	14.5	14.1	14.0	13.6	13.4	13.1	12.8	24.0
26.0	12.8	12.7	12.4	12.2	11.9	11.7	11.4	11.1	26.0
28.0	11.3	11.3	10.9	10.8	10.4	10.3	9.9	9.7	28.0
30.0	10.1	10.0	9.7	9.6	9.2	9.1	8.7	8.5	30.0
32.0	9.0	8.9	8.6	8.5	8.1	8.0	7.6	7.5	32.0
34.0	8.1	8.0	7.6	7.6	7.2	7.1	6.7	6.6	34.0
36.0	7.2	7.2	6.8	6.8	6.4	6.3	5.9	5.8	36.0
38.0	6.5 /37.9	6.5 /37.9	6.1 /37.9	6.1 /37.9	5.7 /37.9	5.7 /37.9	5.2 /37.9	5.2 /37.9	38.0

Unit: ton

Boom length (m)	45								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
10.0	48.0 /10.1	48.0 /10.1	48.0 /10.1	48.0 /10.1	48.0 /10.1	47.7 /10.1	47.8 /10.1	46.6 /10.1	10.0
12.0	40.6	40.3	40.0	39.5	39.3	38.6	38.5	37.5	12.0
14.0	32.6	32.3	32.1	31.7	31.5	30.9	30.9	30.1	14.0
16.0	26.7	26.5	26.3	25.9	25.7	25.2	25.2	24.5	16.0
18.0	22.4	22.3	22.0	21.7	21.5	21.0	20.9	20.3	18.0
20.0	19.1	19.0	18.7	18.4	18.2	17.8	17.6	17.1	20.0
22.0	16.5	16.4	16.1	15.8	15.6	15.3	15.0	14.6	22.0
24.0	14.4	14.3	13.9	13.8	13.5	13.2	12.9	12.6	24.0
26.0	12.6	12.5	12.2	12.0	11.7	11.5	11.2	10.9	26.0
28.0	11.1	11.0	10.7	10.6	10.2	10.1	9.7	9.5	28.0
30.0	9.9	9.8	9.5	9.3	9.0	8.8	8.5	8.3	30.0
32.0	8.8	8.7	8.4	8.3	7.9	7.8	7.4	7.3	32.0
34.0	7.8	7.8	7.4	7.4	7.0	6.9	6.5	6.4	34.0
36.0	7.0	7.0	6.6	6.5	6.2	6.1	5.7	5.6	36.0
38.0	6.3	6.2	5.9	5.8	5.5	5.4	5.0	4.9	38.0
40.0	5.6	5.6	5.2	5.2	4.8	4.8	4.4	4.3	40.0
42.0	5.5 /40.5	5.5 /40.5	5.1 /40.5	5.1 /40.5	4.7 /40.5	4.6 /40.5	4.2 /40.5	4.2 /40.5	42.0

•For notes about the table above, refer to page 26.

■ Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	48								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
10.6	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	10.6
12.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	12.0
14.0	32.5	32.3	32.0	31.6	31.5	30.9	30.9	30.0	14.0
16.0	26.7	26.5	26.2	25.9	25.7	25.2	25.2	24.4	16.0
18.0	22.4	22.2	21.9	21.6	21.4	21.0	20.9	20.3	18.0
20.0	19.1	18.9	18.6	18.4	18.1	17.8	17.6	17.1	20.0
22.0	16.4	16.3	16.0	15.8	15.5	15.2	15.0	14.6	22.0
24.0	14.3	14.2	13.9	13.7	13.4	13.1	12.9	12.5	24.0
26.0	12.5	12.4	12.1	12.0	11.7	11.4	11.2	10.8	26.0
28.0	11.1	11.0	10.6	10.5	10.2	10.0	9.7	9.4	28.0
30.0	9.8	9.7	9.4	9.3	8.9	8.8	8.5	8.2	30.0
32.0	8.7	8.6	8.3	8.2	7.9	7.7	7.4	7.2	32.0
34.0	7.8	7.7	7.4	7.3	6.9	6.8	6.4	6.3	34.0
36.0	6.9	6.9	6.5	6.4	6.1	6.0	5.6	5.5	36.0
38.0	6.2	6.1	5.8	5.7	5.4	5.3	4.9	4.8	38.0
40.0	5.5	5.5	5.1	5.1	4.7	4.7	4.3	4.2	40.0
42.0	4.9	4.9	4.6	4.5	4.2	4.1	3.7	3.6	42.0
44.0	4.7 /43.1	4.6 /43.1	4.3 /43.1	4.2 /43.1	3.9 /43.1	3.8 /43.1	3.4 /43.1	3.4 /43.1	44.0

Unit: ton

Boom length (m)	51								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
10.6	36.0 /11.2	36.0 /11.2	36.0 /11.2	36.0 /11.2	36.0 /11.2	36.0 /11.2	36.0 /11.2	36.0 /11.2	10.6
12.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	12.0
14.0	32.3	32.1	31.7	31.3	31.1	30.5	30.4	29.6	14.0
16.0	26.5	26.3	26.1	25.7	25.6	25.0	25.0	24.3	16.0
18.0	22.2	22.1	21.8	21.5	21.3	20.8	20.8	20.1	18.0
20.0	18.9	18.8	18.5	18.2	18.0	17.6	17.5	17.0	20.0
22.0	16.3	16.2	15.9	15.6	15.4	15.1	14.9	14.4	22.0
24.0	14.2	14.0	13.7	13.5	13.3	13.0	12.8	12.4	24.0
26.0	12.4	12.3	12.0	11.8	11.5	11.3	11.0	10.7	26.0
28.0	10.9	10.8	10.5	10.3	10.0	9.8	9.6	9.3	28.0
30.0	9.6	9.5	9.2	9.1	8.8	8.6	8.3	8.1	30.0
32.0	8.5	8.5	8.1	8.0	7.7	7.5	7.2	7.0	32.0
34.0	7.6	7.5	7.2	7.1	6.8	6.6	6.3	6.1	34.0
36.0	6.8	6.7	6.4	6.3	5.9	5.8	5.5	5.3	36.0
38.0	6.0	6.0	5.6	5.6	5.2	5.1	4.8	4.6	38.0
40.0	5.4	5.3	5.0	4.9	4.6	4.5	4.1	4.0	40.0
42.0	4.8	4.7	4.4	4.3	4.0	3.9	3.5	3.5	42.0
44.0	4.2	4.2	3.9	3.8	3.5	3.4	3.0	3.0	44.0
46.0	3.8 /45.7	3.8 /45.7	3.5 /45.7	3.4 /45.7	3.1 /45.7	3.0 /45.7	2.6 /45.7	2.6 /45.7	46.0

・For notes about the table above, refer to page 26.

■ Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	54								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
11.7	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.7	11.7
12.0	36.0	36.0	36.0	36.0	36.0	36.0	35.6	35.3	12.0
14.0	31.6	31.4	31.1	30.7	30.5	29.9	29.8	29.0	14.0
16.0	26.4	26.1	25.9	25.5	25.4	24.9	24.9	24.1	16.0
18.0	22.0	21.9	21.6	21.3	21.1	20.7	20.6	20.0	18.0
20.0	18.7	18.6	18.3	18.0	17.8	17.4	17.3	16.8	20.0
22.0	16.1	15.9	15.7	15.4	15.2	14.9	14.7	14.2	22.0
24.0	13.9	13.8	13.5	13.3	13.1	12.8	12.6	12.2	24.0
26.0	12.2	12.1	11.8	11.6	11.3	11.1	10.8	10.5	26.0
28.0	10.7	10.6	10.3	10.1	9.8	9.6	9.4	9.1	28.0
30.0	9.4	9.3	9.0	8.9	8.6	8.4	8.1	7.8	30.0
32.0	8.3	8.2	7.9	7.8	7.5	7.3	7.0	6.8	32.0
34.0	7.4	7.3	7.0	6.9	6.6	6.4	6.1	5.9	34.0
36.0	6.5	6.5	6.1	6.1	5.7	5.6	5.3	5.1	36.0
38.0	5.8	5.7	5.4	5.3	5.0	4.9	4.5	4.4	38.0
40.0	5.1	5.1	4.8	4.7	4.3	4.2	3.9	3.8	40.0
42.0	4.5	4.5	4.2	4.1	3.8	3.7	3.3	3.2	42.0
44.0	4.0	4.0	3.6	3.6	3.2	3.2	2.8	2.7	44.0
46.0	3.5	3.5	3.2	3.1	2.8	2.7	2.4	2.3	46.0
48.0	3.1	3.1	2.7	2.7	2.4	2.3	1.9	1.9	48.0
50.0	3.0 /48.3	3.0 /48.3	2.7 /48.3	2.7 /48.3	2.3 /48.3	2.3 /48.3	1.9 /48.3		50.0

Unit: ton

Boom length (m)	57								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
12.0	35.2 /12.3	35.2 /12.3	34.2 /12.3	34.1 /12.3	33.0 /12.3	32.9 /12.3	31.7 /12.3	31.5 /12.3	12.0
14.0	31.0	30.8	30.5	30.1	29.9	29.3	29.2	28.4	14.0
16.0	26.2	26.0	25.7	25.3	25.1	24.6	24.5	23.8	16.0
18.0	21.9	21.7	21.4	21.1	21.0	20.5	20.5	19.8	18.0
20.0	18.6	18.4	18.1	17.9	17.7	17.3	17.2	16.6	20.0
22.0	15.9	15.8	15.5	15.3	15.1	14.7	14.6	14.1	22.0
24.0	13.8	13.7	13.4	13.2	12.9	12.6	12.4	12.0	24.0
26.0	12.0	11.9	11.6	11.4	11.2	10.9	10.7	10.3	26.0
28.0	10.5	10.4	10.1	10.0	9.7	9.4	9.2	8.9	28.0
30.0	9.2	9.2	8.9	8.7	8.4	8.2	8.0	7.7	30.0
32.0	8.2	8.1	7.8	7.6	7.3	7.2	6.9	6.6	32.0
34.0	7.2	7.1	6.8	6.7	6.4	6.2	5.9	5.7	34.0
36.0	6.4	6.3	6.0	5.9	5.6	5.4	5.1	4.9	36.0
38.0	5.6	5.6	5.2	5.1	4.8	4.7	4.4	4.2	38.0
40.0	5.0	4.9	4.6	4.5	4.2	4.1	3.7	3.6	40.0
42.0	4.4	4.3	4.0	3.9	3.6	3.5	3.2	3.0	42.0
44.0	3.8	3.8	3.5	3.4	3.1	3.0	2.6	2.5	44.0
46.0	3.4	3.3	3.0	2.9	2.6	2.5	2.2	2.1	46.0
48.0	2.9	2.9	2.6	2.5	2.2	2.1	1.9 /47.5	1.9 /47.0	48.0
50.0	2.5	2.5	2.2	2.1	1.9 /49.5	1.9 /49.3			50.0
52.0	2.4 /50.9	2.3 /50.9	2.0 /50.9	2.0 /50.9					52.0

•For notes about the table above, refer to page 26.

■ Main Boom with Crane Jib (With Crane Boom Extensions)

Unit: ton

Boom length (m)	60								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
12.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	12.9
14.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	14.0
16.0	24.0	24.0	24.0	24.0	24.0	24.0	23.9	23.2	16.0
18.0	21.9	21.7	21.4	21.1	20.9	20.5	20.3	19.7	18.0
20.0	18.5	18.4	18.1	17.8	17.7	17.2	17.2	16.6	20.0
22.0	15.9	15.7	15.5	15.2	15.0	14.7	14.5	14.0	22.0
24.0	13.7	13.6	13.3	13.1	12.9	12.6	12.4	12.0	24.0
26.0	12.0	11.8	11.6	11.4	11.1	10.8	10.7	10.3	26.0
28.0	10.5	10.4	10.1	9.9	9.6	9.4	9.2	8.8	28.0
30.0	9.2	9.1	8.8	8.6	8.4	8.1	7.9	7.6	30.0
32.0	8.1	8.0	7.7	7.6	7.3	7.1	6.8	6.6	32.0
34.0	7.1	7.0	6.7	6.6	6.3	6.1	5.9	5.6	34.0
36.0	6.3	6.2	5.9	5.8	5.5	5.3	5.0	4.8	36.0
38.0	5.5	5.5	5.1	5.0	4.7	4.6	4.3	4.1	38.0
40.0	4.9	4.8	4.5	4.4	4.1	4.0	3.7	3.5	40.0
42.0	4.3	4.2	3.9	3.8	3.5	3.4	3.1	2.9	42.0
44.0	3.7	3.7	3.4	3.3	3.0	2.9	2.5	2.4	44.0
46.0	3.2	3.2	2.9	2.8	2.5	2.4	2.1	2.0	46.0
48.0	2.8	2.8	2.4	2.4	2.0	2.0	1.9 /46.8	1.9 /46.5	48.0
50.0	2.4	2.4	2.0	2.0	1.9 /48.6	1.9 /48.5			50.0
52.0	2.0	2.0	1.9 /50.6	1.9 /50.5					52.0
54.0	1.9 /52.6	1.9 /52.6							54.0

Unit: ton

Boom length (m)	63								Boom length (m)
Jib length (m)	10		16		22		28		Jib length (m)
Offset angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset angle (deg) / Radius (m)
12.9	24.0 /13.5	24.0 /13.5	24.0 /13.5	24.0 /13.5	24.0 /13.5	24.0 /13.5	23.8 /13.5	23.6 /13.5	12.9
14.0	24.0	24.0	24.0	24.0	24.0	24.0	23.4	23.2	14.0
16.0	24.0	24.0	23.6	23.6	22.7	22.7	21.7	21.6	16.0
18.0	21.5	21.3	21.0	20.7	20.4	20.0	19.8	19.2	18.0
20.0	18.3	18.2	17.9	17.6	17.5	17.1	17.0	16.4	20.0
22.0	15.7	15.5	15.3	15.0	14.8	14.5	14.4	13.9	22.0
24.0	13.5	13.4	13.1	12.9	12.7	12.4	12.2	11.8	24.0
26.0	11.7	11.6	11.4	11.2	10.9	10.6	10.5	10.1	26.0
28.0	10.2	10.1	9.9	9.7	9.4	9.2	9.0	8.6	28.0
30.0	9.0	8.9	8.6	8.4	8.2	7.9	7.7	7.4	30.0
32.0	7.9	7.8	7.5	7.3	7.1	6.9	6.6	6.3	32.0
34.0	6.9	6.8	6.5	6.4	6.1	5.9	5.7	5.4	34.0
36.0	6.1	6.0	5.7	5.6	5.3	5.1	4.8	4.6	36.0
38.0	5.3	5.2	4.9	4.8	4.5	4.4	4.1	3.9	38.0
40.0	4.6	4.6	4.3	4.2	3.9	3.7	3.4	3.3	40.0
42.0	4.0	4.0	3.7	3.6	3.3	3.2	2.9	2.7	42.0
44.0	3.5	3.4	3.1	3.1	2.7	2.6	2.3	2.2	44.0
46.0	3.0	3.0	2.7	2.6	2.3	2.2	1.9 /45.6	1.9 /45.2	46.0
48.0	2.6	2.5	2.2	2.2	1.9 /47.6	1.9 /47.5			48.0
50.0	2.2	2.1	1.9 /49.5	1.9 /49.5					50.0
52.0	1.9 /51.5	1.9 /51.3							52.0

・For notes about the table above, refer to page 26.

Main Boom (Using Third Winch) (With Crane Boom Extensions)

Unit: ton

Working Radius (m)	Boom length (m)											Working Radius (m)
	15	18	21	24	27	30	33	36	39	42	45	
4.6	120.0											4.6
5.0	120.4	108.0 /5.2										5.0
5.5	109.9	108.0	84.0 /5.7									5.5
6.0	101.1	100.9	84.0	72.0 /6.3	72.0 /6.8							6.0
7.0	87.0	86.8	84.0	72.0	72.0	60.0 /7.4	48.0 /7.9					7.0
8.0	76.3	76.1	75.9	72.0	72.0	60.0	48.0	48.0 /8.5				8.0
9.0	64.8	64.8	64.8	64.8	64.8	60.0	48.0	48.0	48.0	36.0 /9.6		9.0
10.0	55.4	55.5	55.4	55.4	55.4	55.4	48.0	48.0	48.0	36.0	36.0 /10.1	10.0
12.0	42.7	42.8	42.7	42.7	42.6	42.6	42.5	42.4	42.3	36.0	36.0	12.0
14.0	34.5	34.5	34.5	34.5	34.4	34.4	34.2	34.1	34.0	34.0	33.8	14.0
16.0	32.9 /14.5	28.8	28.7	28.7	28.6	28.6	28.5	28.3	28.2	28.2	28.0	16.0
18.0		26.3 /17.1	24.5	24.5	24.3	24.3	24.2	24.1	23.9	23.9	23.7	18.0
20.0			21.6 /19.7	21.2	21.1	21.0	20.9	20.8	20.6	20.6	20.4	20.0
22.0				18.6	18.5	18.4	18.3	18.1	18.0	17.9	17.7	22.0
24.0				18.3 /22.3	16.4	16.3	16.2	16.0	15.9	15.8	15.6	24.0
26.0					15.5 /24.9	14.6	14.4	14.3	14.1	14.1	13.8	26.0
28.0						13.4 /27.5	13.0	12.8	12.7	12.6	12.4	28.0
30.0							11.7	11.5	11.4	11.3	11.1	30.0
32.0							11.7 /30.1	10.5	10.3	10.2	10.0	32.0
34.0								10.1 /32.7	9.4	9.3	9.1	34.0
36.0									8.8 /35.3	8.4	8.2	36.0
38.0										7.7 /37.9	7.5	38.0
40.0											6.8	40.0
42.0											6.7 /40.5	42.0

Unit: ton

Working Radius (m)	Boom length (m)						Working Radius (m)
	48	51	54	57	60	63	
10.0	36.0 /10.6	24.0 /11.2	24.0 /11.7				10.0
12.0	36.0	24.0	24.0	24.0 /12.3	24.0 /12.9	24.0 /13.5	12.0
14.0	33.7	24.0	24.0	24.0	24.0	24.0	14.0
16.0	27.9	24.0	24.0	24.0	24.0	24.0	16.0
18.0	23.6	23.5	23.3	23.1	22.9	22.4	18.0
20.0	20.3	20.2	20.0	19.8	19.8	19.6	20.0
22.0	17.7	17.5	17.3	17.2	17.1	16.9	22.0
24.0	15.5	15.4	15.2	15.0	15.0	14.8	24.0
26.0	13.8	13.6	13.4	13.3	13.2	13.0	26.0
28.0	12.3	12.1	11.9	11.8	11.7	11.5	28.0
30.0	11.0	10.9	10.7	10.5	10.4	10.2	30.0
32.0	9.9	9.8	9.6	9.4	9.3	9.1	32.0
34.0	9.0	8.8	8.6	8.4	8.4	8.1	34.0
36.0	8.1	8.0	7.8	7.6	7.5	7.3	36.0
38.0	7.4	7.2	7.0	6.8	6.8	6.5	38.0
40.0	6.7	6.6	6.3	6.2	6.1	5.9	40.0
42.0	6.1	6.0	5.8	5.6	5.5	5.3	42.0
44.0	5.8 /43.1	5.4	5.2	5.0	4.9	4.7	44.0
46.0		5.0 /45.7	4.7	4.6	4.5	4.2	46.0
48.0			4.3	4.1	4.0	3.8	48.0
50.0			4.2 /48.3	3.7	3.6	3.4	50.0
52.0				3.6 /50.9	3.2	3.0	52.0
54.0					3.0 /53.2	2.7	54.0
56.0						2.4 /55.8	56.0

1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The counter weight is 49.6 tons.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.
7. Cannot be used with 1 fall.

Hook Capacity (t)	Hook Weight (t)	Maximum rated loads (t)								
		10falls	9falls	8falls	7falls	6falls	5falls	4falls	3falls	2falls
120	1.64	120	108	96	84	72	60	48	36	24
80	1.35				80	72	60	48	36	24
35	0.90								35	24

8. When performing repetitive work using buckets, lifting magnets, etc., the higher the load factor, the shorter the life of the structure (boom, frame, winch, etc.).

Main Boom with Aux. Sheave (Using Third Winch) (With Crane Boom Extensions)

Unit: ton

Radius (m)	Boom length (m)											Radius (m)
	15	18	21	24	27	30	33	36	39	42	45	
4.6	120.0											4.6
5.0	119.5	108.0 /5.2										5.0
5.5	109.1	108.0	84.0 /5.7									5.5
6.0	100.2	100.0	84.0	72.0 /6.3	72.0 /6.8							6.0
7.0	86.2	86.0	84.0	72.0	72.0	60.0 /7.4	48.0 /7.9					7.0
8.0	75.4	75.2	75.1	72.0	72.0	60.0	48.0	48.0 /8.5				8.0
9.0	64.4	64.4	64.4	64.4	64.3	60.0	48.0	48.0	48.0	36.0 /9.6		9.0
10.0	55.0	55.1	55.0	55.0	55.0	54.9	48.0	48.0	48.0	36.0	36.0 /10.1	10.0
12.0	42.4	42.4	42.3	42.3	42.2	42.2	42.1	42.0	41.9	36.0	36.0	12.0
14.0	34.2	34.2	34.1	34.1	34.0	34.0	33.8	33.7	33.6	33.5	33.3	14.0
16.0	32.6 /14.5	28.4	28.4	28.4	28.2	28.2	28.1	27.9	27.8	27.7	27.5	16.0
18.0		26.0 /17.1	24.1	24.1	24.0	23.9	23.8	23.7	23.5	23.4	23.2	18.0
20.0			21.3 /19.7	20.8	20.7	20.6	20.5	20.4	20.2	20.1	19.9	20.0
22.0				18.3	18.1	18.0	17.9	17.8	17.6	17.5	17.3	22.0
24.0				17.9 /22.3	16.0	15.9	15.8	15.6	15.5	15.4	15.2	24.0
26.0					15.2 /24.9	14.2	14.1	13.9	13.7	13.7	13.4	26.0
28.0						13.1 /27.5	12.6	12.4	12.3	12.2	12.0	28.0
30.0							11.4	11.2	11.0	10.9	10.7	30.0
32.0							11.3 /30.1	10.1	10.0	9.8	9.6	32.0
34.0								9.8 /32.7	9.0	8.9	8.7	34.0
36.0									8.5 /35.3	8.1	7.8	36.0
38.0										7.4 /37.9	7.1	38.0
40.0											6.5	40.0
42.0											6.3 /40.5	42.0

Unit: ton

Radius (m)	Boom length (m)						Radius (m)
	48	51	54	57	60	63	
10.0	36.0 /10.6	24.0 /11.2	24.0 /11.7				10.0
12.0	36.0	24.0	24.0	24.0 /12.3	24.0 /12.9	24.0 /13.5	12.0
14.0	33.3	24.0	24.0	24.0	24.0	24.0	14.0
16.0	27.5	24.0	24.0	24.0	24.0	24.0	16.0
18.0	23.2	23.0	22.8	22.6	22.2	21.6	18.0
20.0	19.9	19.7	19.5	19.3	19.3	18.8	20.0
22.0	17.2	17.1	16.9	16.7	16.7	16.4	22.0
24.0	15.1	15.0	14.7	14.6	14.5	14.3	24.0
26.0	13.4	13.2	13.0	12.8	12.7	12.5	26.0
28.0	11.9	11.7	11.5	11.3	11.2	11.0	28.0
30.0	10.6	10.4	10.2	10.0	10.0	9.7	30.0
32.0	9.5	9.3	9.1	8.9	8.9	8.6	32.0
34.0	8.6	8.4	8.2	8.0	7.9	7.7	34.0
36.0	7.7	7.6	7.3	7.2	7.1	6.8	36.0
38.0	7.0	6.8	6.6	6.4	6.3	6.1	38.0
40.0	6.4	6.2	5.9	5.8	5.6	5.4	40.0
42.0	5.8	5.6	5.3	5.2	5.1	4.8	42.0
44.0	5.5 /43.1	5.1	4.8	4.6	4.5	4.3	44.0
46.0		4.7 /45.7	4.3	4.2	4.0	3.8	46.0
48.0			3.9	3.7	3.6	3.4	48.0
50.0			3.9 /48.3	3.3	3.2	3.0	50.0
52.0				3.2 /50.9	2.8	2.6	52.0
54.0					2.6 /53.2	2.2	54.0
56.0						2.0 /55.8	56.0

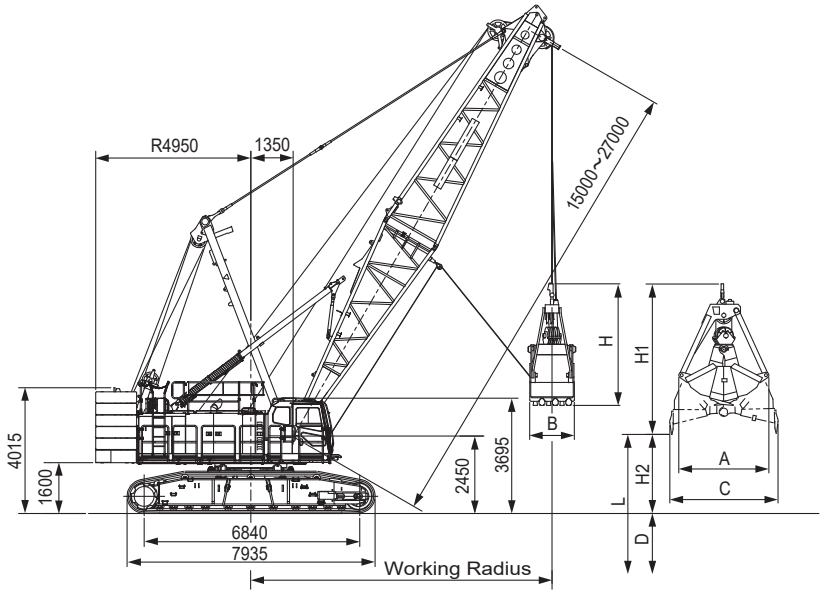
1. The rated loads are determined according to EN13000 rating on the condition that the machine is stationed on firm, level ground.
2. The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as boom hook and jib hook, from figures shown above.
4. Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
5. The counter weight is 49.6 tons.
6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.
7. Cannot be used with 1 fall.

Hook Capacity (t)	Hook Weight (t)	Maximum rated loads (t)								
		10falls	9falls	8falls	7falls	6falls	5falls	4falls	3falls	2falls
120	1.64	120	108	96	84	72	60	48	36	24
80	1.35				80	72	60	48	36	24
35	0.90								35	24

8. When performing repetitive work using buckets, lifting magnets, etc., the higher the load factor, the shorter the life of the structure (boom, frame, winch, etc.).
9. If the value is less than 1.4 tons after deduction of jib hook weight from the rated load shown above, operation is not available.

Clamshell Specifications

Dimensions and Specifications



Working Ranges

Boom Length	m	15				18				21				24				27			
Boom Angle	°	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55	65
Working Radius	m	14.2	12.6	11	8.5	16.7	14.7	12.7	9.8	19.1	16.8	14.4	11.1	21.6	19.0	16.1	12.3	24.0	21.0	17.8	13.6
Gross Rated Load	t	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Lift L (D + H2)	m	39.4	40.5	41.5	42.3	41.1	42.6	43.9	45	42.8	44.7	45.7	47.7	44.5	46.8	47.4	50.4	46.2	48.9	49.1	53.1
Max. Digging Depth D	m	36																			
Bucket Dumping Height H2	m	3.4	4.5	5.5	6.3	5.1	6.6	7.9	9	6.8	8.7	9.7	11.7	8.5	10.8	11.4	14.4	10.2	12.9	13.1	17.1

Specifications

		Clamshell Specifications
Bucket Capacity	m^3	2.5
Allowed Maximum Gross Weight for Clamshell Bucket and Captured Load Combined	t	10
Boom Length	m	15 to 27
Maximum Digging Depth	m	36
Ground Contact Pressure	kPa (kgf/cm²)	93 (0.95) (w/ Basic Boom, 2.5 m^3 Clamshell Bucket)
Overall Operating Weight	t	Approximately 126 (w/ Basic Boom, 2.5 m^3 Clamshell Bucket)

NOTE :

- Speeds marked with "*" may vary depending on load applied.
- SI units are used for specifications. In parenthesis, conventional units are also indicated.
- Specifications other than those shown above are the same as those shown in the crane specifications section.

Clamshell Bucket

Capacity (m^3)	Weight (t)	A (mm)	B (mm)	C (mm)	H (mm)	H1 (mm)
2.5	5.5	2,880	1,400	3,450	4,180	5,130

Gross Rated Load Table

Unit ; t

Working Radius (m)	Boom Length (m)				
	15	18	21	24	27
8.5	10.0				
9.0	10.0	10.0 /9.8			
10.0	10.0	10.0	10.0 /11.1		
12.0	10.0	10.0	10.0	10.0 /12.3	10.0 /13.6
14.0	10.0 /14.2	10.0	10.0	10.0	10.0
16.0		10.0	10.0	10.0	10.0
18.0		10.0 /16.7	10.0	10.0	10.0
20.0			10.0 /19.1	10.0	10.0
22.0				10.0 /21.6	10.0
24.0					10.0

1. The mass of individual bucket shall not exceed 5.5 ton.
2. Max. clamshell rating is 10.0 t.
3. Mass of bucket plus load should not exceed clamshell ratings shown above. Following data are for a general digging application buckets.

Bucket capacity	2.0 m^3	2.5 m^3
Bucket mass	4.5 t	5.5 t

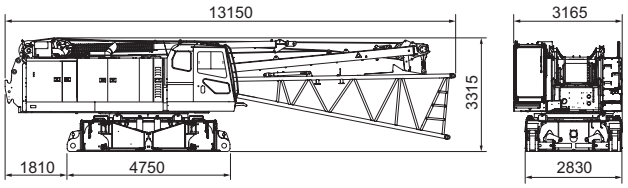
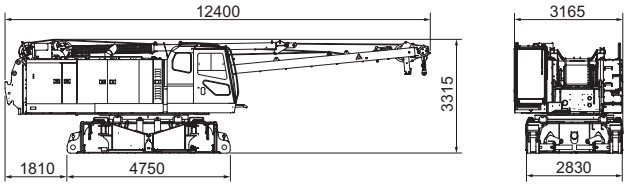
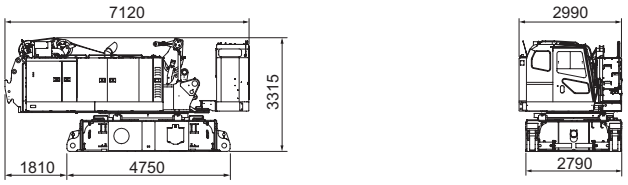
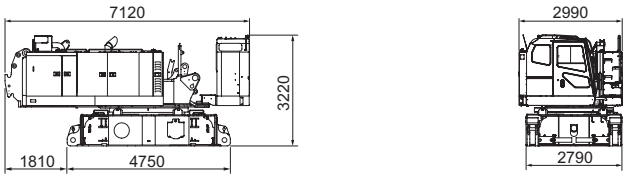
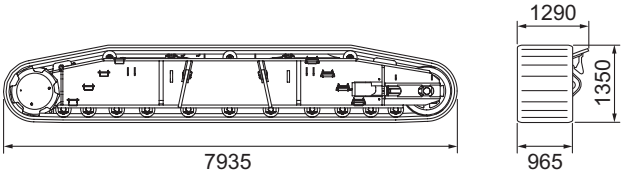
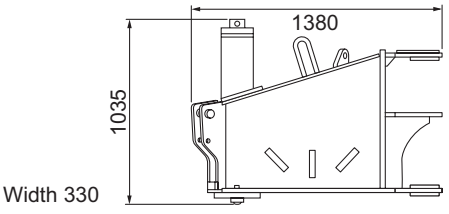
4. In case of clamshell application, a 15.0 m boom is recommended as minimum length of boom, and max. boom length shall not exceed 27.0 m.
5. Apparent specific gravity of lifting material :
   Earth ..... 1.7 to 1.8 t/m^3
   Gravel ..... 1.8 to 2.0 t/m^3
6. A 49.6 t counter weight is required for all capacities on these charts.
7. Max. digging depth below ground shall be 36 m.

Weights and Dimensions of Disassembled Units

Weights and Dimensions List

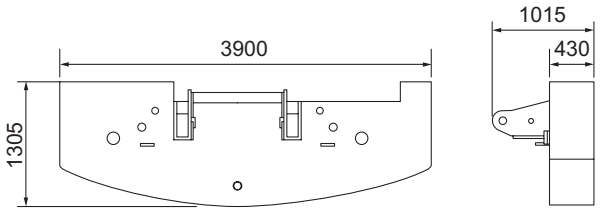
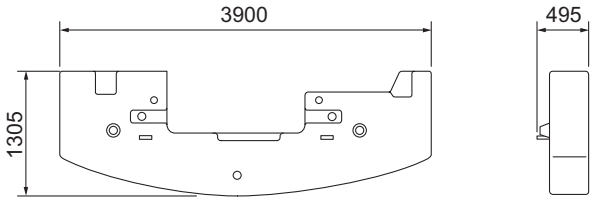
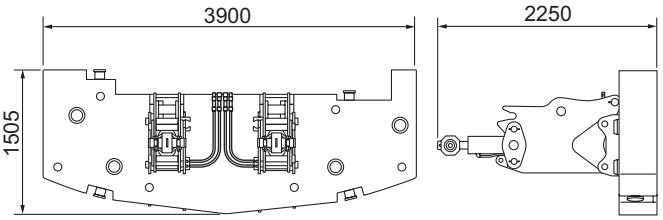
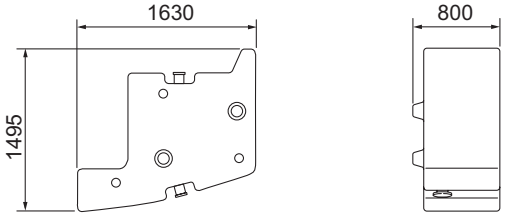
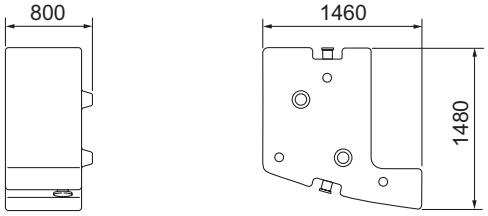
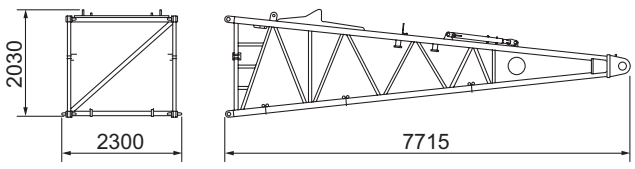
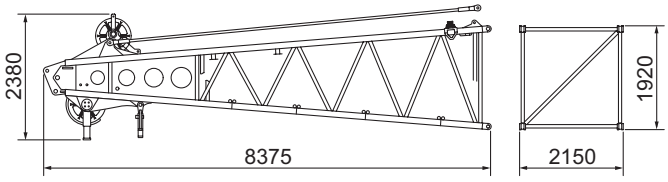
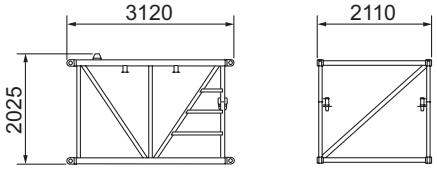
Regarding transportation, please observe the regulations.
"Weights" indicates the weight per unit.

Weights and Dimensions of Disassembled Units ○ : With — : Without

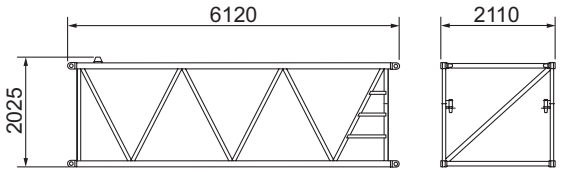
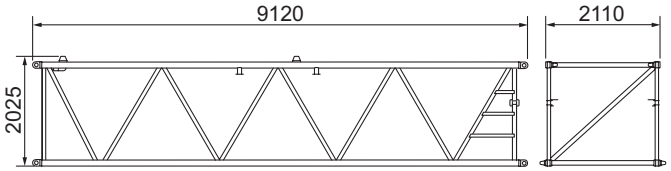
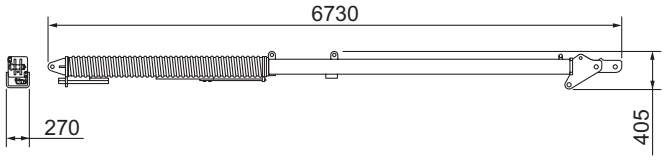
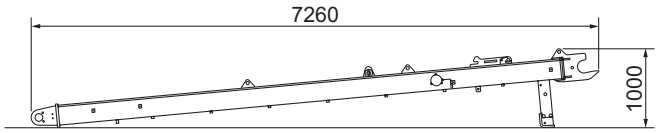
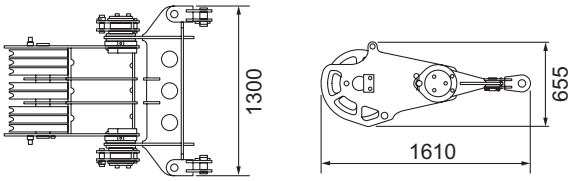
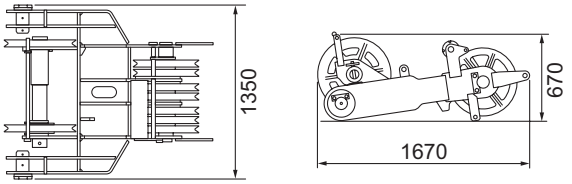
Description		Qty	Dimensions (mm)	Weight (kg)
Base Crane	○	1		39400
Backstops	○			
Boom Base	○			
Mast	○			
Front Winch Wire Rope	○			
Rear Winch Wire Rope	-			
Boom Hoist Winch Wire Rope	○			
Jacks	○			
Upper & Lower Spreader	○			
Floats	○			
Base Crane	○	1		37200
Backstops	○			
Boom Base	-			
Mast	○			
Front Winch Wire Rope	○			
Rear Winch Wire Rope	-			
Boom Hoist Winch Wire Rope	○			
Jacks	○			
Upper & Lower Spreader	○			
Floats	○			
Base Crane	○	1		32900
Backstops	-			
Boom Base	-			
Mast	-			
Front Winch Wire Rope	○			
Rear Winch Wire Rope	-			
Boom Hoist Winch Wire Rope	○			
Jacks	-			
Upper & Lower Spreader	○			
Floats	-			
Base Crane	○	1		29900
Backstops	-			
Boom Base	-			
Mast	-			
Front Winch Wire Rope	-			
Rear Winch Wire Rope	-			
Boom Hoist Winch Wire Rope	-			
Jacks	-			
Upper & Lower Spreader	-			
Floats	-			
Crawler		2		14200
Jack Beams		4		420

・The handrails increase the weight of the main unit by 160 kg.
・The catwalks increase the weight of the main unit by 300 kg and the width of the main unit by 210 mm.

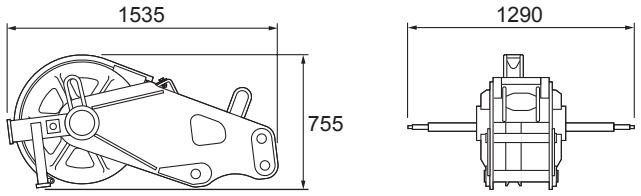
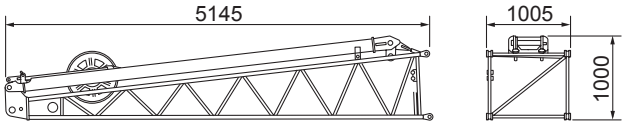
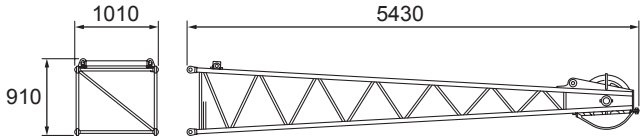
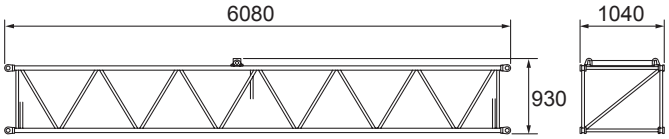
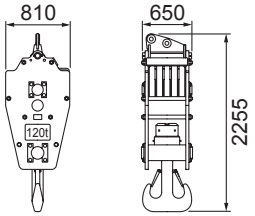
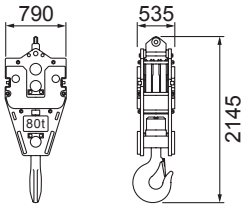
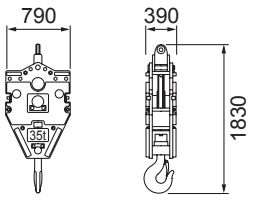
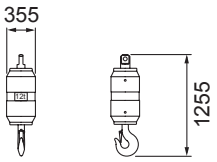
Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
Counter weight (Base)	1		9100
Counter weight	5		8100
Counter weight with Self Assembly Unit (Base)	1		9100
Counter weight (For Counter weight with Self Assembly Unit)	3		6410
Counter weight (For Counter weight with Self Assembly Unit)	3		6780
Boom Base	1		2300
Boom Top	1		2200
3 m Boom Insert	1		470

Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
6 m Boom Insert	1		760
9 m Boom Insert	1		1050
Boom Backstops	2		490
Mast	1	 Width 1230	1480
Upper Spreader	1		810
Lower Spreader	1		870

Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
Aux. Sheave	1		350
Jib Base (with Jib Strut)	1		580
Jib Top	1		290
6 m Jib Insert	1		190
120 t Hook	1		1640
80 t Hook	1		1350
35 t Hook	1		900
12 t Hook	1		510

Equipment List

Standard and Optional Equipment

○ : Standard ● : Optional — : No setting

Item		Crane	Clamshell
Lower Structure	965 mm Shoe	○	○
	965 mm Shoe (Low Wear type, Contiguous surface of roller)	●	●
	Jack Up Unit	○	○
	Crawler Side Frame Connecting Unit	○	○
	Steps	○	○
	Shoe Tension Unit (Hydraulic)	●	●
	Clearance Bar	●	●
Upper Structure	Cab Up/Down Catwalk	○	○
	Under Cover (Bed lower surface)	○	○
	Working Light (× 2)	○	○
	Additional Working Light (×2)	●	●
	Back Mirror (Left and right)	○	○
	Central Lubrication Unit (For turntable bearing)	○	○
	Drum Flange Cover	○	○
	Auto Idle Stop	○	○
	Eco Winch	○	○
	Drum Light (Front winch)	●	●
	Winch Rope Retainer (Front winch)	●	●
	Winch Rope Retainer (Rear winch)	●	●
	Winch Rope Retainer (Third winch)	●	●
	Catwalk with Handrails (Folding type, Left / Right)	○	○
	Counter Weight Handrails	●	●
	Electric Fuel Pump	●	●
	Electric Urea Pump	●	●
	Upper House Handrails	○	○
	Winch with Front, Rear Free Mechanism (Brake mode switch with Free-fall Assist System)	●	●
	Third Winch (Rope not included) (with Free mechanism)	●	-
Cab	Air Conditioner	○	○
	Sunvisor	○	○
	Sunshade	○	○
	Wiper with Washer (Front window, Cab roof window)	○	○
	Microphone & Loud-Speaker	●	●
	AM / FM Radio (with Clock)	○	○
	Room Lamp	○	○
	Cup Holder	○	○
	24 V Power Socket (× 2)	○	○
	Floor Carpet	○	○
	Level Gauge (in Cab and Lower Structure)	○	○
	Accelerator Pedal (Right side)	●	●
	Arm Chair Lever	○	○
	Cross Operation Lever (Lever lock not attached)	●	●
	Front Operation Lever (with Lever lock)	●	●
	Standard Seat	○	○
	Seat with Suspension	●	●
	Travel Operation Pedal (Cannot be installed when free mechanism attached)	●	●
	Boom Hoist Operation Pedal *1	●	●
	Swing Brake Operation Pedal *1	●	●
	Fan	●	●
	Front/Rear Operation Lever, Brake Pedal Selector	●	●
	Fuel Burning Heater	●	●
	Accelerator Grip	○	○
	Drum Rotation Sensor (Front/Rear/Boom Hoist) *2	○	○
	Speed Control Dial (Front/Rear/Boom Hoist/Swing)	○	○
	Lifehammer	○	○

*1 Cannot be installed at the same time.
*2 Cannot be equipped when the cross operation lever or front operation lever is installed.

○ : Standard ● : Optional — : No setting

Item			Crane	Clamshell
Attachment	15 m Basic Boom (Boom base: 7.5 m, Top: 7.5 m)		○	○
	3 m Boom Insert		●	●
	6 m Boom Insert		●	●
	9 m Boom Insert		●	●
	Parts set for 10 m crane jib [10 m Basic jib, Anti-two block, Jib mast]		●	-
	6 m Crane Jib Insert		●	-
	Midpoint Pendant Rope (Required when the boom length is 66 m or longer)		●	-
	Parts Set for Auxiliary Sheave [Auxiliary sheave, Auxiliary sheave anti-two block]		●	-
	120 t Hook (5 sheaves)		●	-
	80 t Hook (3 sheaves)		●	-
	35 t Hook (1 sheave)		●	-
	12 t Hook		●	-
Wire Rope	Front Winch (ϕ 26)	Mono Rope EP 3XF (40)	○	-
		P·S (19) + 39XP·7	●	-
		IWRC 6 X WS (31)	-	○ *3
	Rear Winch (ϕ 26)	Mono Rope EP 3XF (40)	●	-
		P·S (19) + 39XP·7	●	-
		IWRC 6 X P·WS (31)	●	-
		IWRC 6 X WS (31)	-	○ *4
	Third Winch (ϕ 26)	Mono Rope EP 3XF (40)	●	-
		P·S (19) + 39XP·7	●	-
	Boom Hoist Winch (ϕ 22.4)	IWRC 6 X P·WS (31)	○	○
Safety Device	Moment Limiter		○	○
	3 Color Percentage Indicator		●	●
	Gate Lock Lever		○	○
	Individual Winch Operation Lever Lock (Front, Rear, Boom Hoist, Travel) *5		○	○
	Automatic Drum Lock (Boom Hoist)		○	○
	Winch Drum Lock (Front/Rear)		○	○
	Lowering Limiter (Winch Drum Dead Turns Detective Device)		●	●
	Swing Lock		○	○
	Swing Alarm		○	○
	Travel Alarm		○	○
	Auto Slowdown (Slow stop)		○	○
	Boom Hoist Limiting Device		○	○
	Secondary Boom Over Hoist Prevent Device		○	○
	Warning Alarm		○	○
	Engine Start Interlock System		○	○
	Emergency Engine Stop Switch (In cab)		○	○
	Lifting Height Indication Device		○	○
	Swing Neutral Free/Brake Selection Switch		○	○
	Anti-Two Block		○	●
	Moment Limiter (M/L) Mode Selector (In left house)		●	○
	Swing Restriction Unit		●	●
	Anemometer		○	-
	Obstacle Lights		●	-
	Crane Boom Top Camera Monitor System		●	-
	Drum and Rear View Monitor System		●	●
	Cab Roof Window Guard		●	●

*3 Opening/closing rope (ϕ 26 mm × 82 m). The standard length is 21 m for opening/closing and support ropes, and 12 m for excavation ropes.
*4 Support rope (ϕ 26 mm × 70 m). The standard length is 21 m for opening/closing and support ropes, and 12 m for excavation ropes.
*5 An operation lever lock is not attached to the front, rear or hoist when the cross operation lever is installed.

○ : Standard ● : Optional — : No setting

Item			Crane	Clamshell
Common parts	Boom Foot Pin Removal / Installation Cylinder		●	●
	Boom Back Stop		○	○
	Boom Angle Sensor		○	○
	Remote Sensing (Mobile Communication Terminal, Data Logging)		○	○
	Boom Lifting Piece		○	○
	Assembly Pad *6		●	-
	Quick Draw for Side Frame Self Assembly *7		●	●
	Counter weight with Self Assembly Unit		●	●
	Skywalk (With Stanchion)		●	-
	Skywalk (Without Stanchion)		●	-
	Boom Top Under Surface Buffer (Protector)		●	●
	Load Table Sign (Whiteboard, boom base installation)		●	●
	Insertable Company Name Plate (Both side surfaces of the machine)		●	●
	Opening / Closing / Support Rope Stopper		-	○
	Hyd. Tagline (6 × Fi (29) ϕ 10 mm × 55 m)		● *8	○
	Reeving Winch (4 × F (30) ϕ 8 mm × 250 m)		● *8	-
	Reeving Winch Cum Hydraulic tagline	For hydraulic tagline (6 × Fi (29) ϕ 10 mm × 55 m)	● *8	-
		For reeving (6 × Fi (29) ϕ 10 mm × 220 m)		
	Reduction Counter weight Specification		● *9	-
	Sling Ropes for Disassembly and Assembly (For counter weights, Crawlers)		●	●
	Openable Rope Guide (Boom Top)		●	●
	Additional Guide Sheave (1 sheave)		●	●
	Air Cleaner Double Element		○	○
	Additional Spare Parts (Hydraulic oil filter)		●	●
	Additional Tools (Large hammer, Crowbar, Chisel)		●	●
Other	Standard Supplied Tools		○	○
	Standard Spare Parts		○	○

*6 The assembly pad is required for the following attachments.
- Crane Boom Longest Length 75 m
- Crane Boom Length 72 m + Aux. Sheave
- Crane Boom Length 63 m + Crane Jib Over 16 m

Reduction Counter Weight Specification
- Crane Boom Length Over 69 m
- Crane Boom Length Over 57 m + Aux.Sheave

*7 When using the reeving winch or hydraulic tagline, remove the side frame self-assembly quick draw.

*8 (1) Hydraulic tagline (maximum line pull: 2.9 kN (300 kg))
(2) Reeving winch unit (maximum line pull: 11.8 ZkN (1,200 kg))
(3) Reeving winch and hydraulic tagline (maximum line pull: 2.9 kN (300 kg)

*9 The reduction counter weight specification can only be used for the crane specification, with the exception of the crane jib.

- We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
- Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.
- Always refer to the Operator's manual before operating the crane.

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