

**SCX1000A-3**

Stage III A / Tier 3

**SCX  
1000A-3**

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**HYDRAULIC CRAWLER CRANE**

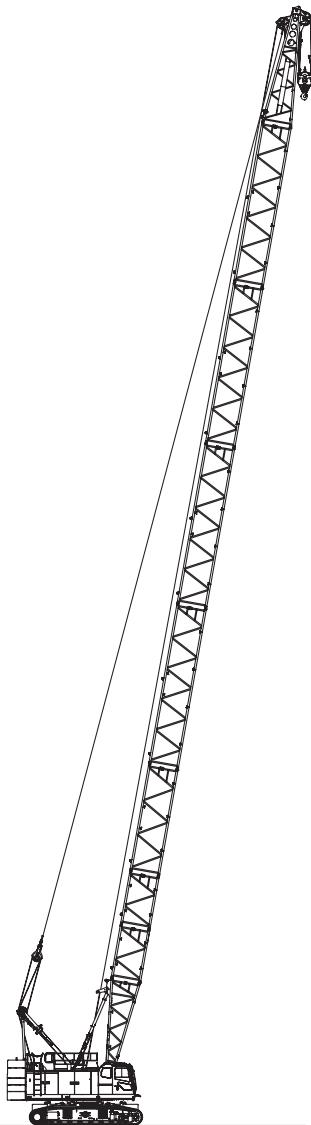
**Hoist Rope 26mm  
12t-Rated Line Pull**



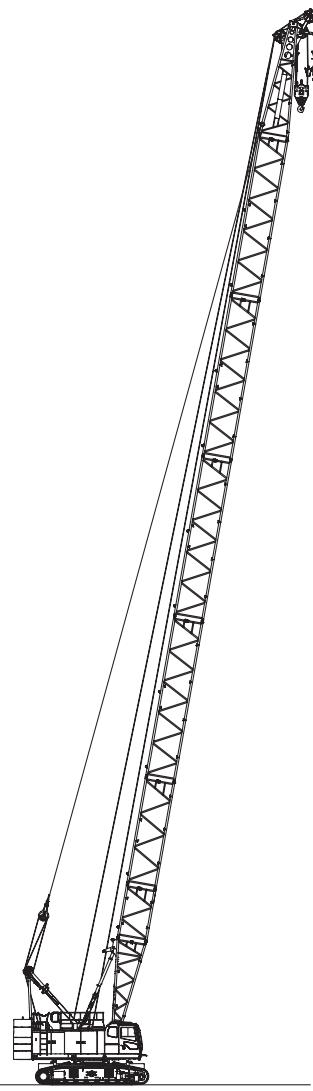
# Variation of The Attachment

Line Speed *	Front / Rear Winch (Rated with 12 t load)	m/min	110 (45)
	Third Winch (Rated with 12 t load)		95 (30)
Swing Speed		min <sup>-1</sup> (rpm)	2.3
Travel Speed High / Low *		km/h	2.0 / 1.1
Gradeability		% (Degree)	30 (17)
Engine Model			ISUZU 6HK1 (Stage III A, Tier 3)
Engine Rated Output Power	kW/min <sup>-1</sup> (ps/rpm)		200.6 / 1850 (272 / 1850)

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



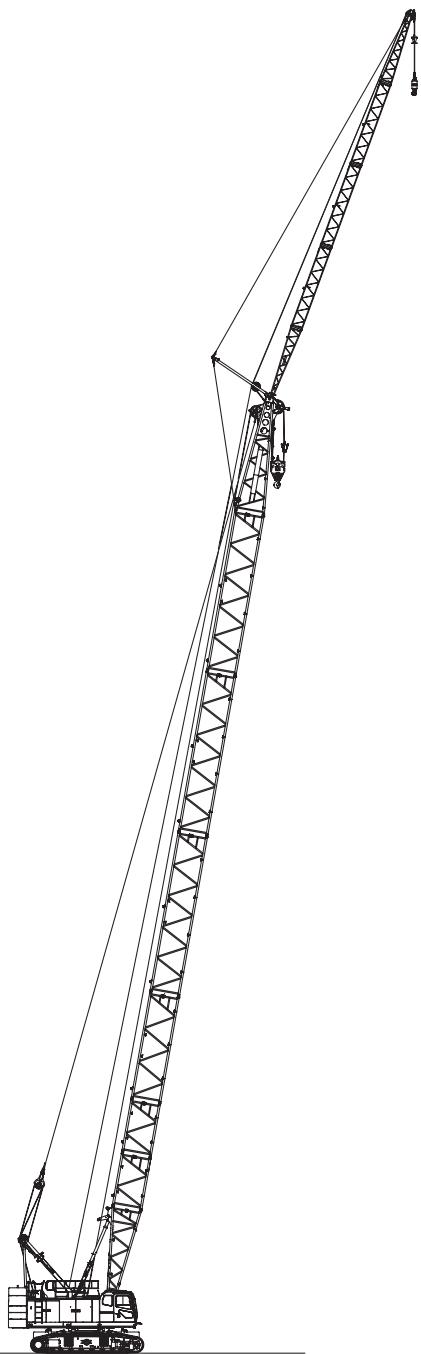
**Crane Specification  
(Boom Longest Length)**



**Crane Specification  
(Boom Longest Length with Aux. Sheave)**

Boom Length	m	12 to 60
Ground Contact Pressure	kPa (kgf/cm <sup>2</sup> )	123 (1.25) (Boom longest length with 35 t hook)
Overall Operating Weight	t	Approximately 110 (Boom longest length with 35 t hook)

Boom Length	m	12 to 57
Ground Contact Pressure	kPa (kgf/cm <sup>2</sup> )	123 (1.26) (Boom longest length + 35 t aux. sheave + 12 t hook attached)
Overall Operating Weight	t	Approximately 110 (Boom longest length + 35 t aux. sheave + 12 t hook attached)



**Crane Specification  
(Boom Longest Length with Crane Jib)**

Boom Length	m	24 to 51
Crane Jib Length	m	10 to 28
Boom + Crane Jib Longest Length	m	51 + 28
Ground Contact Pressure	kPa (kgf/cm <sup>2</sup> )	123 (1.26) (Boom + crane jib longest length 35 t + 12 t hook attached)
Overall Operating Weight	t	Approximately 110 (Boom + crane jib longest length 35 t + 12 t hook attached)

**VARIATION****Variation of The Attachment**

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# Specifications

## Engine

Model	ISUZU 6HK1
Type	4-cycle, Water-cooled, Direct injection, Turbo-charged, Diesel engine
Displacement	7.79 liters
Rated Output	200.6 kW / 1,850 min <sup>-1</sup> (272 ps / 1,850 rpm)
Fuel Tank Capacity	460 liters
Notes	<p>Engine meets Stage III A / Tier 3 of engine exhaust gas emission regulations in USA, Europe, and Japan.</p> <p>Engine rated horsepower is based on international rating formula that includes engine alternator and without fan.</p>

## Third Winch (Optional)

Rope Diameter	26 mm
Rope Length	Standard 205 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.

## Gantry

Gantry is welded steel construction. Raised and lowered by power hydraulic cylinders.

## Counter Weight

	Total Weight	37.5 ton
Upper Weight	9.5 ton Base Weight	1 piece
	6.6 ton Insert Weight	2 pieces
	9.0 ton Insert Weight	1 piece
	2.8 ton Top Weight	1 piece
	3.0 ton Top Weight	1 piece
Lower Weight	Total Weight	12.0 ton
	6.0 ton Lower Weight	2 pieces

## Carbody Frame

Welded steel construction with jack up device and crawler sideframe extend-retract cylinders.

## Crawler Sideframe

Frame	Welded steel box construction, and can be retracted.
Shoe	Cast iron 810 mm width shoe each side.
Upper Roller	2 pieces double flange type for each side.
Lower Roller	10 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 High : 2.0 km/h (Gradability : 30%) Low : 1.1 km/h

## Hydraulic System

Hydraulic Oil Tank Capacity	320 liters		
	Max.	31.4 MPa	
Hydraulic Pump Capacity	P1	266 liters / min	for Front, Rear, boom hoist winch and travel
	P2	266 liters / min	for Front, Rear, third winch and travel
	P3	152 liters / min	for Swing, Jack, Sideframe retract and Gantry cyl.
	P4	38 liters / min	Pilot control, Brake cooling, Reeling tagline, etc.
	P5	38 liters / min	
	P6	38 liters / min	
	P7	30 liters / min	

## Winch

Front and Rear Winch			
Winch	Front	Rear	
Rope Diameter	26 mm	26 mm	
Rope Length	Standard 205 m	125 m	for Aux. sheave
	-	170 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.		

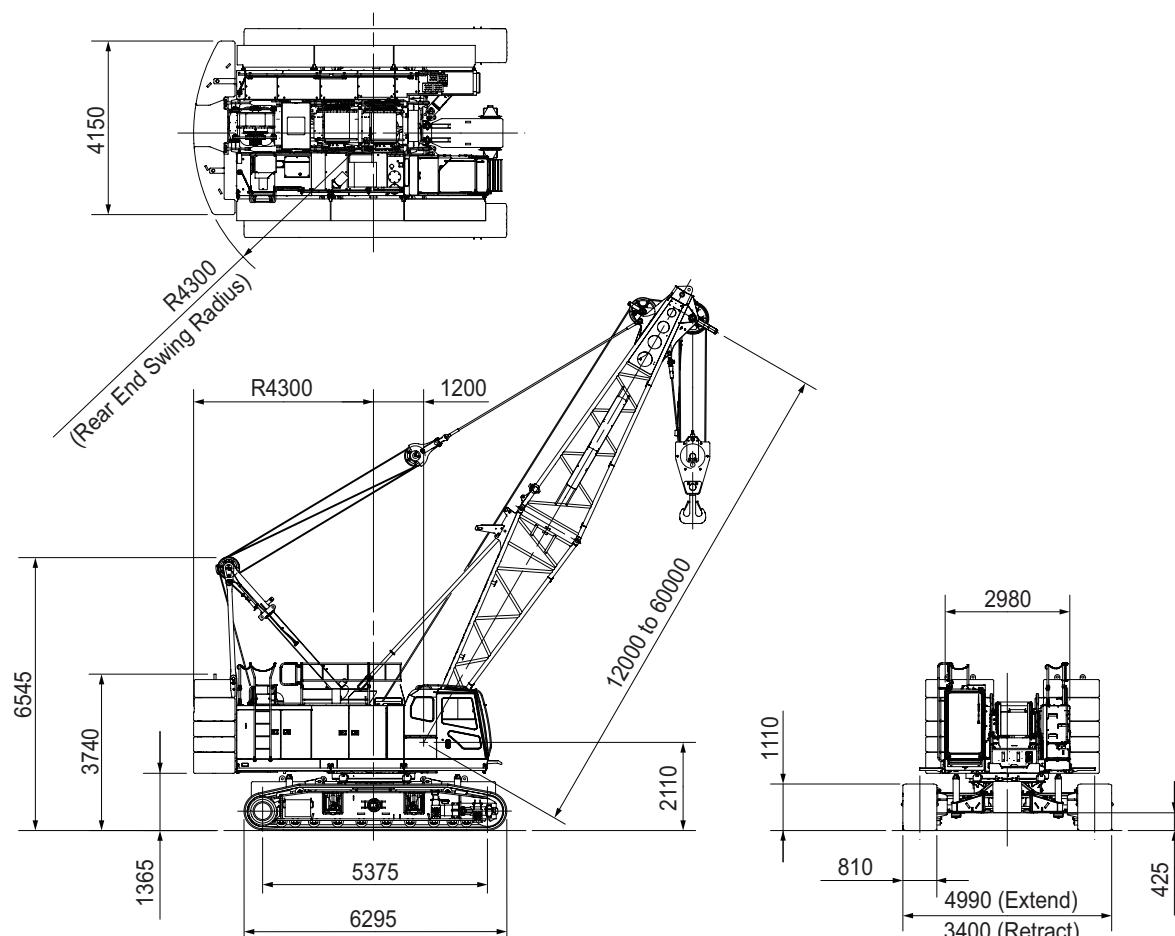
## Boom Hoist Winch

Rope Diameter	22.4 mm
Rope Length	Incorporated 160 m

Hydraulic motor with multi-disc brakes.

# Crane Specifications

## Dimensions and Specifications



### Crane Specifications

Max. Lifting Load × Working Radius	t × m	100×3.8
Basic Boom Length	m	12
Max. Boom Length	m	60
Max. Crane Jib Length	m	10 to 28
Max. Boom + Jib Length	m	51 + 28
Ground Contact Pressure	kPa (kgf/cm <sup>2</sup> )	117 (1.19) (w / Basic Boom, 100 t Hook)
Overall Operating Weight	t	Approximately 104 (w / Basic Boom, 100 t Hook)

### Hook Weight

100 t	1,200 kg
50 t	1,170 kg
35 t	900 kg
12 t	510 kg

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

## Boom and Crane Jib Configurations

Boom	
Boom Length (m)	Boom Configurations
12	
15	
18	
21	
24	
27	
30	
33	
36	
39	
42	

Boom	
Boom Length (m)	Boom Configurations
45	
48	
51	
54	
57	
60	

### Aux. Sheave Installable Boom Length

Boom Length (m)	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
With Aux. Sheave	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	

( ○ : Attachable × : Not Attachable )

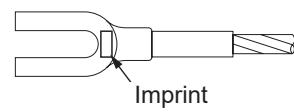
Check the pendant rope with referring to the imprints on the rope end.

### Dimensions Not Shown In The Figure

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

### Pendant Rope

Symbols	Length (m)	Rope Diameter (mm)	Imprint
3	3	35.5	□ • △ • 35.5 • 3 • C
5.3	5.3	35.5	□ • △ • 35.5 • 5.3 • C
6	6	35.5	□ • △ • 35.5 • 6 • C
9	9	35.5	□ • △ • 35.5 • 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)	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Jib Length (m)	10	×	×	×	○	○	○	○	○	○	○	○	○	○	×	×	×
	16	×	×	×	×	○	○	○	○	○	○	○	○	○	×	×	×
	22	×	×	×	×	○	○	○	○	○	○	○	○	○	×	×	×
	28	×	×	×	×	○	○	○	○	○	○	○	○	○	×	×	×

(○ : Attachable × : Not Attachable )

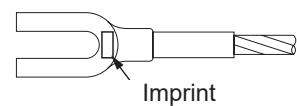
Crane Jib (Offset Angle 10° and 30°)

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		Note
Symbols	Jib Length (m)	
5	5	
6	6	

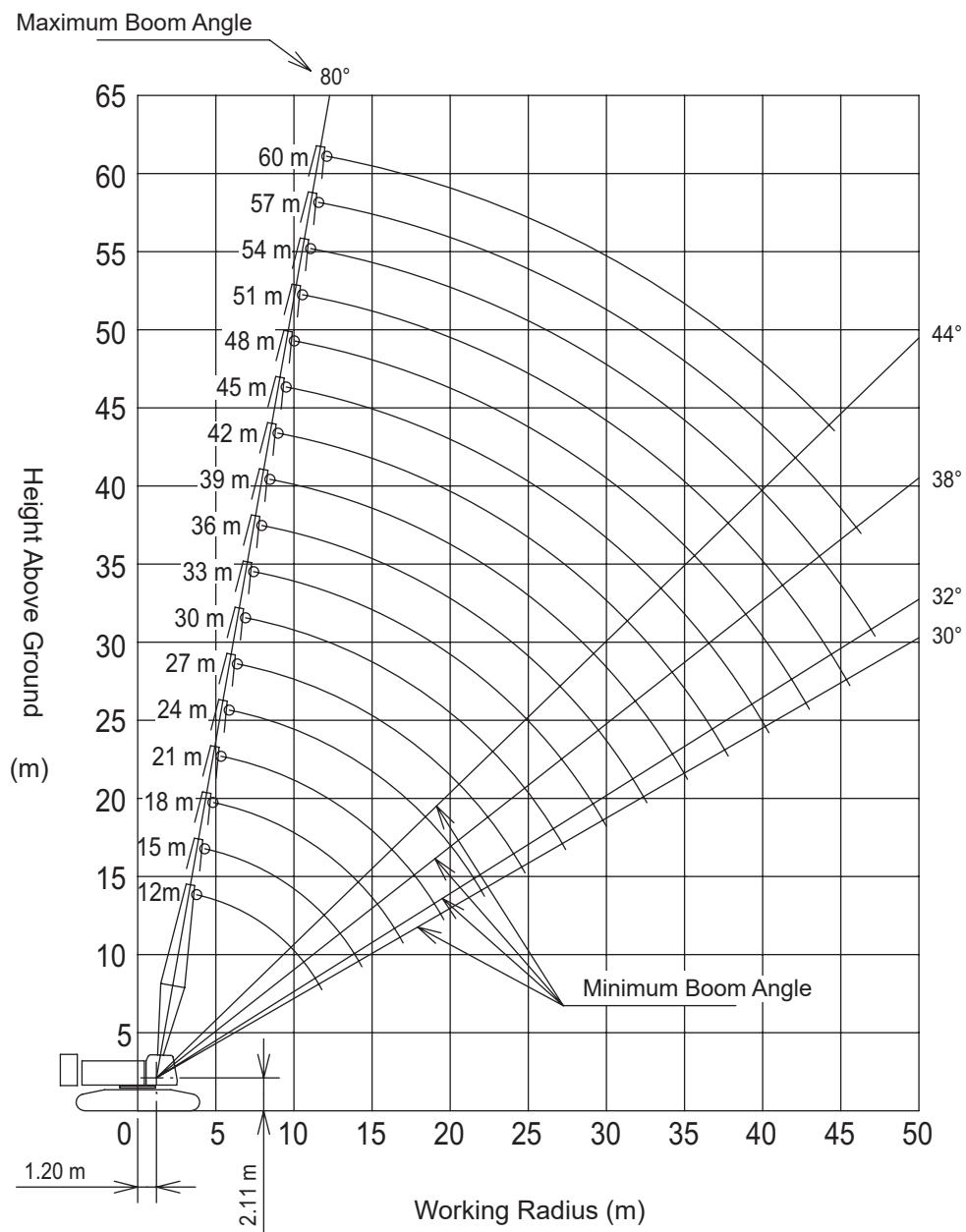
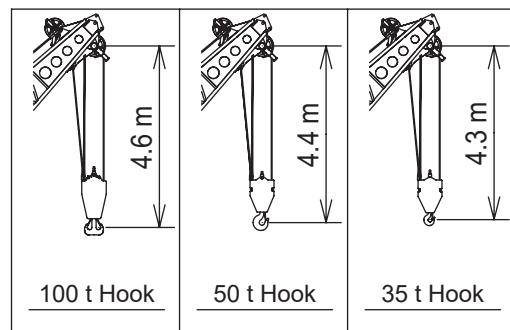
Jib Pendant Rope			
Symbols	Length (m)	Rope Diameter (mm)	Imprint
1.6	1.6	24	□ • △ • 24 • 1.6 • S
5.7	5.7	24	□ • △ • 24 • 5.7 • S
8.3	8.3	24	□ • △ • 24 • 8.3 • S
9.6	9.6	24	□ • △ • 24 • 9.6 • S



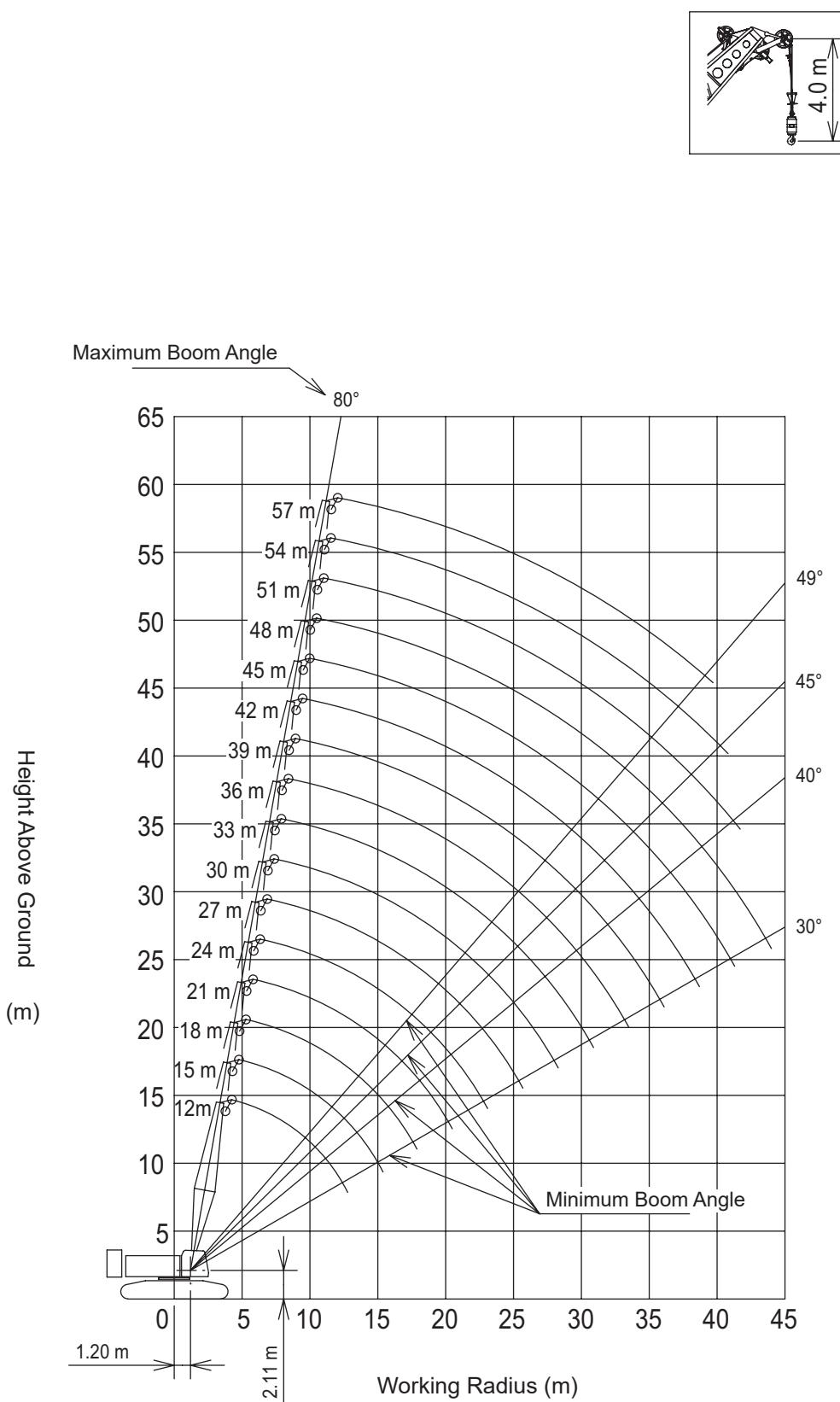
Imprint

# Working Ranges

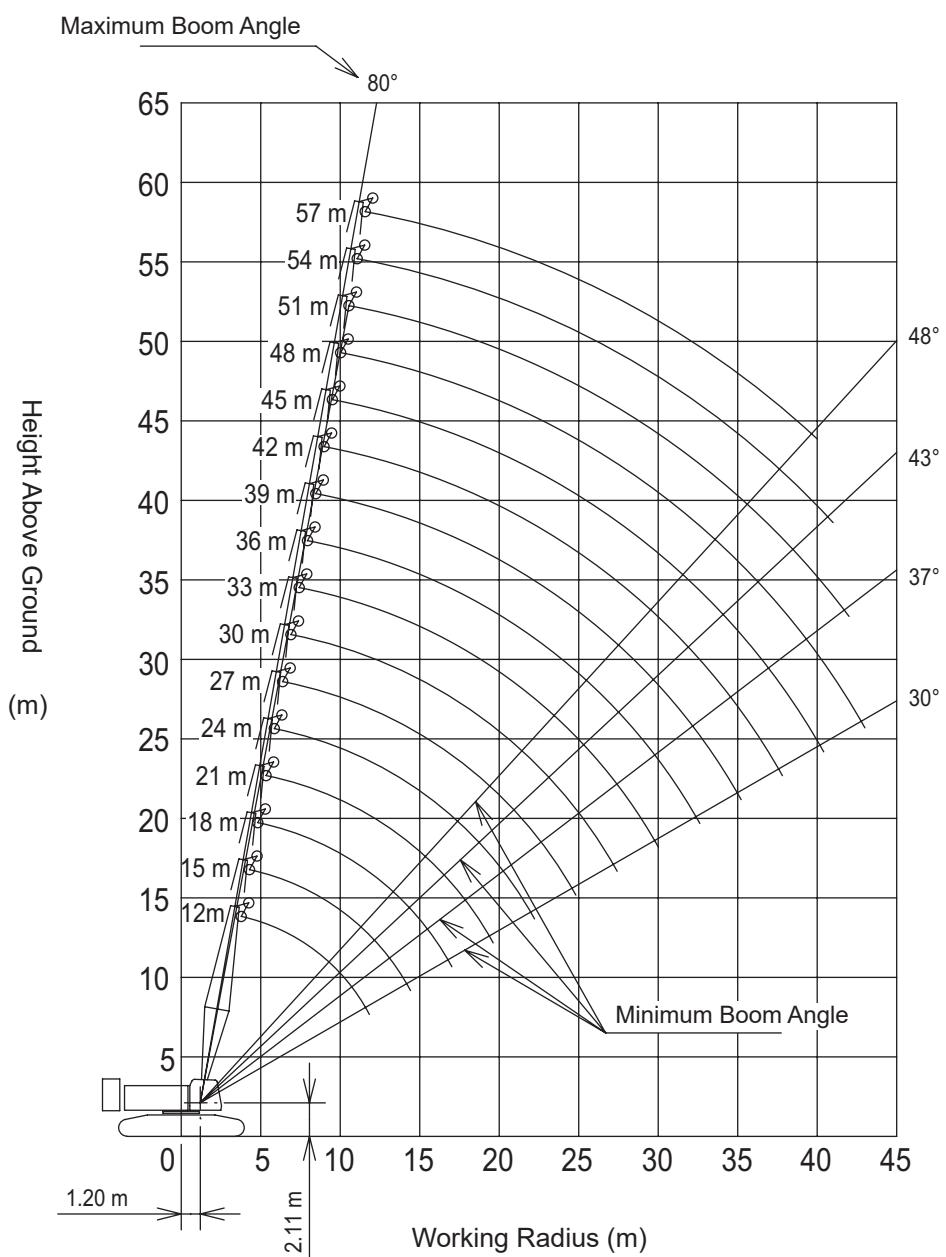
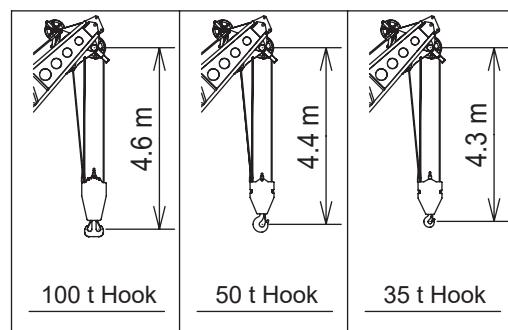
## Main Boom



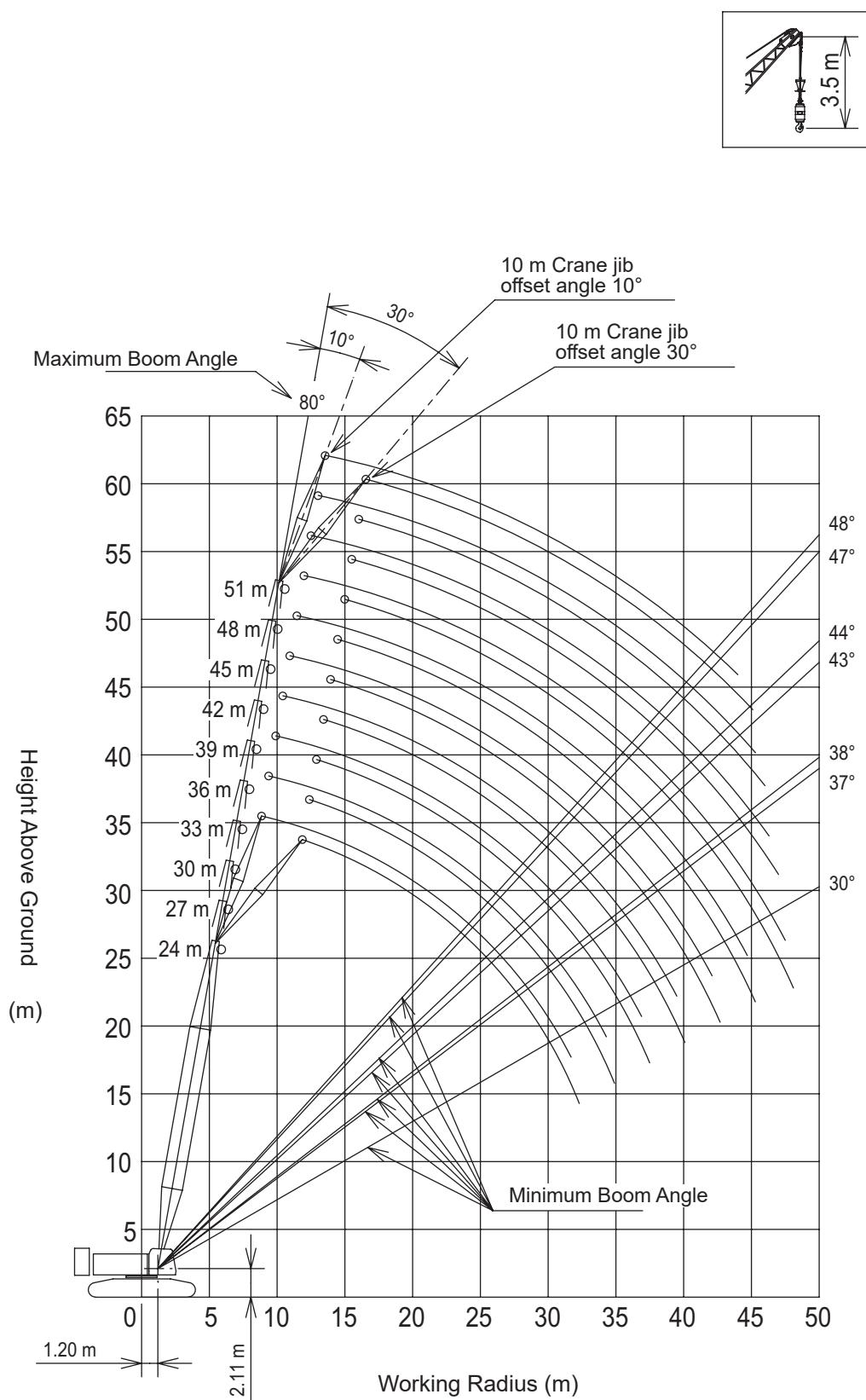
## ■ Aux. Sheave

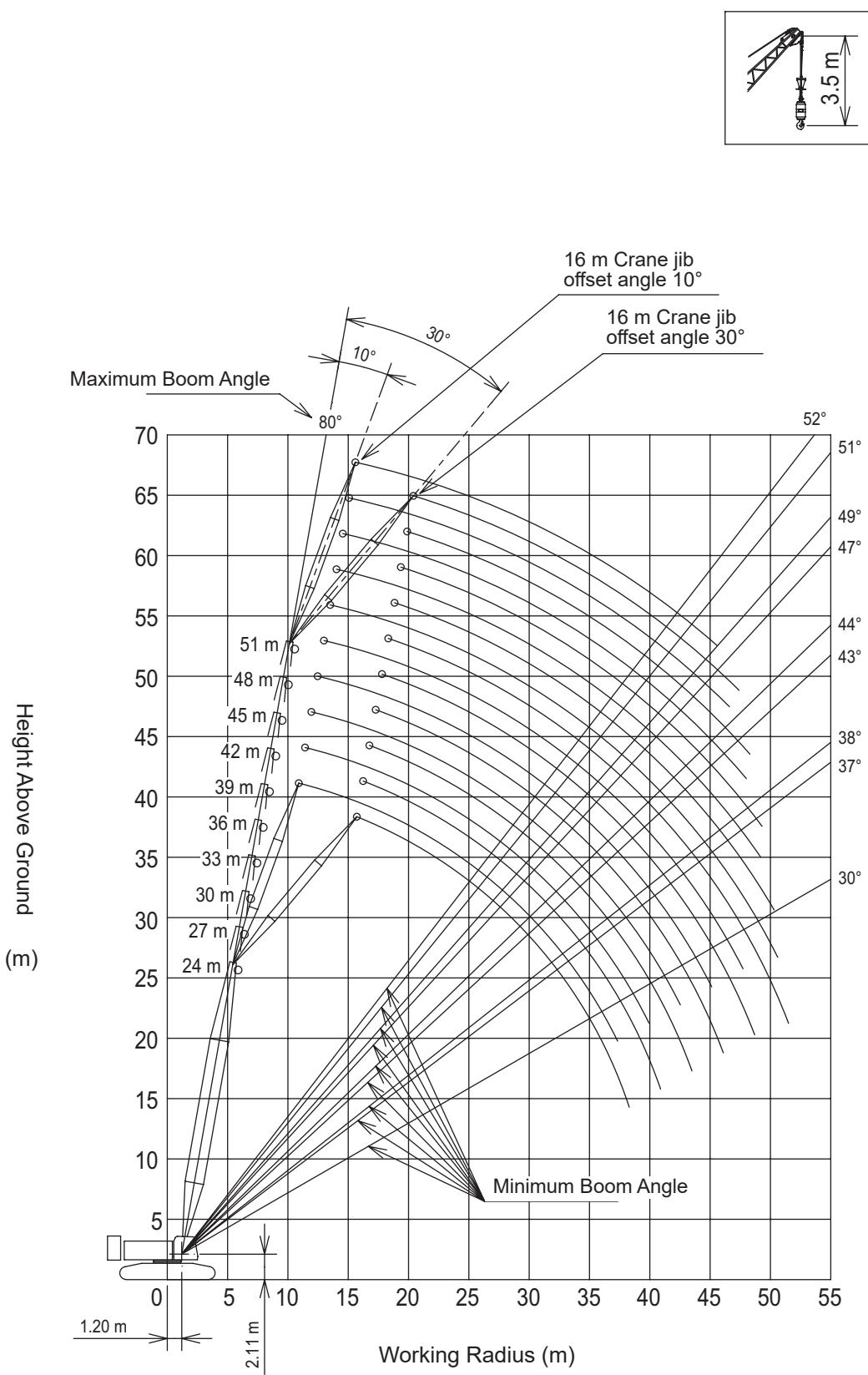


■ Main Boom with Aux. Sheave

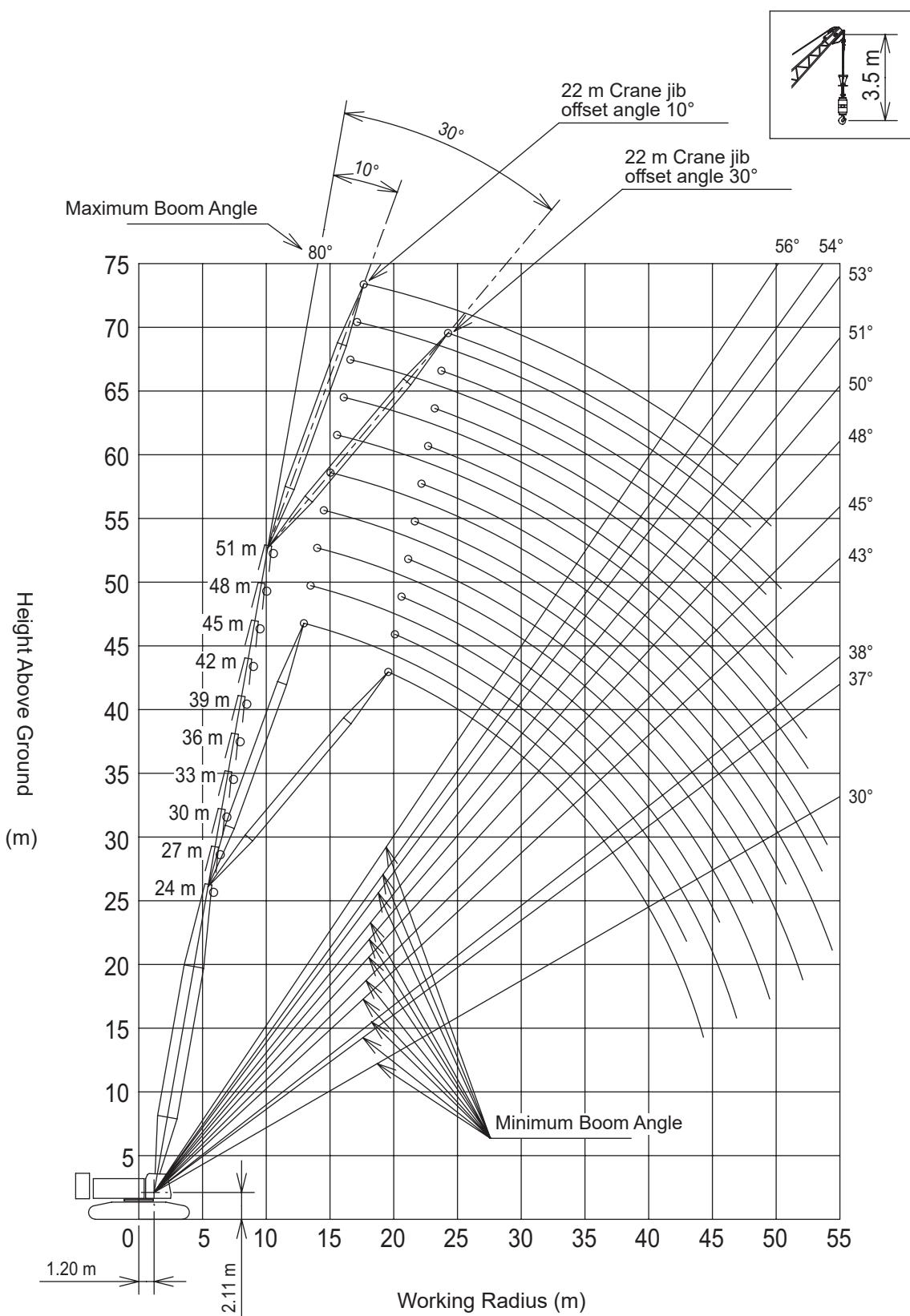


## ■ 10 m Crane Jib

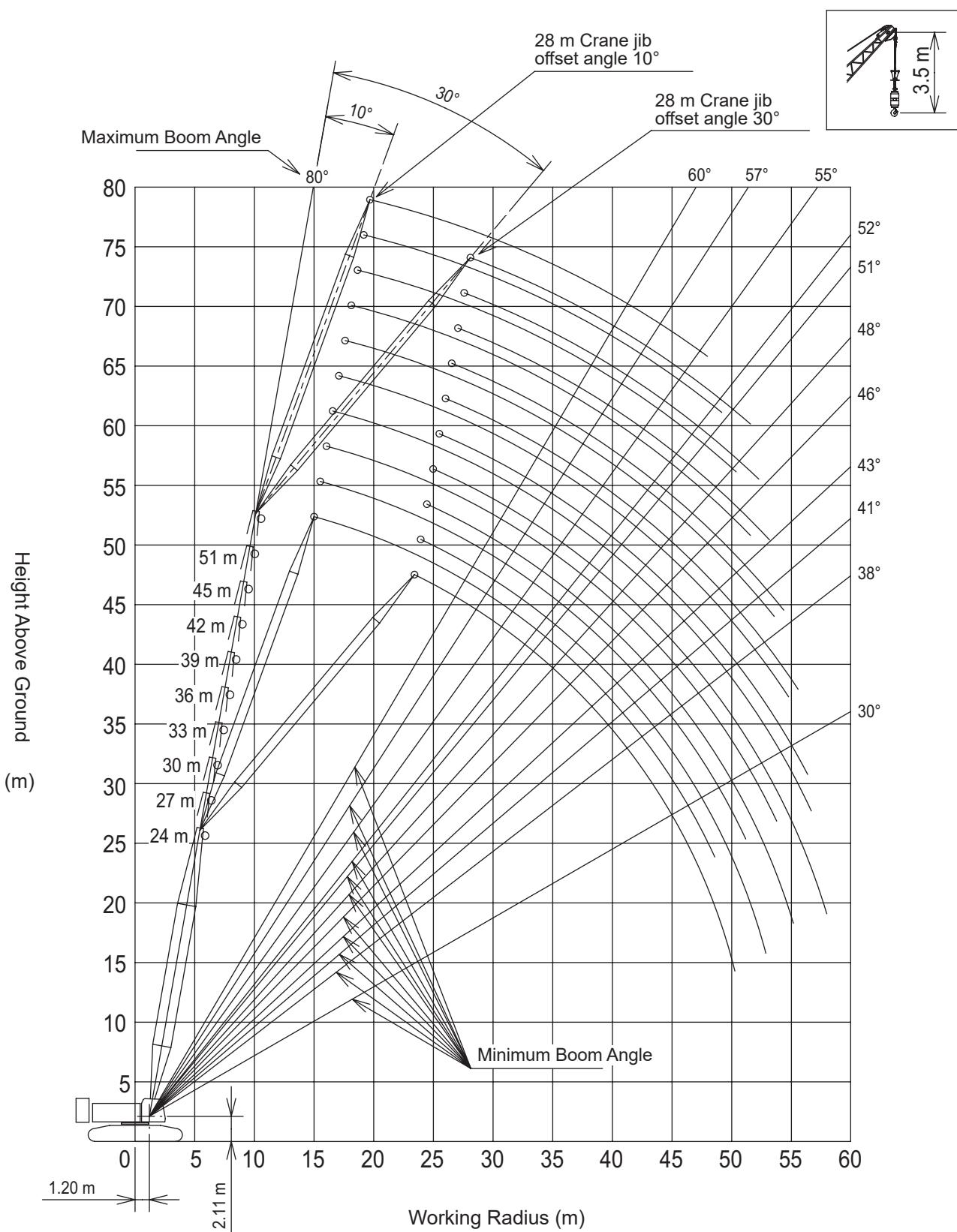


**■ 16 m Crane Jib**

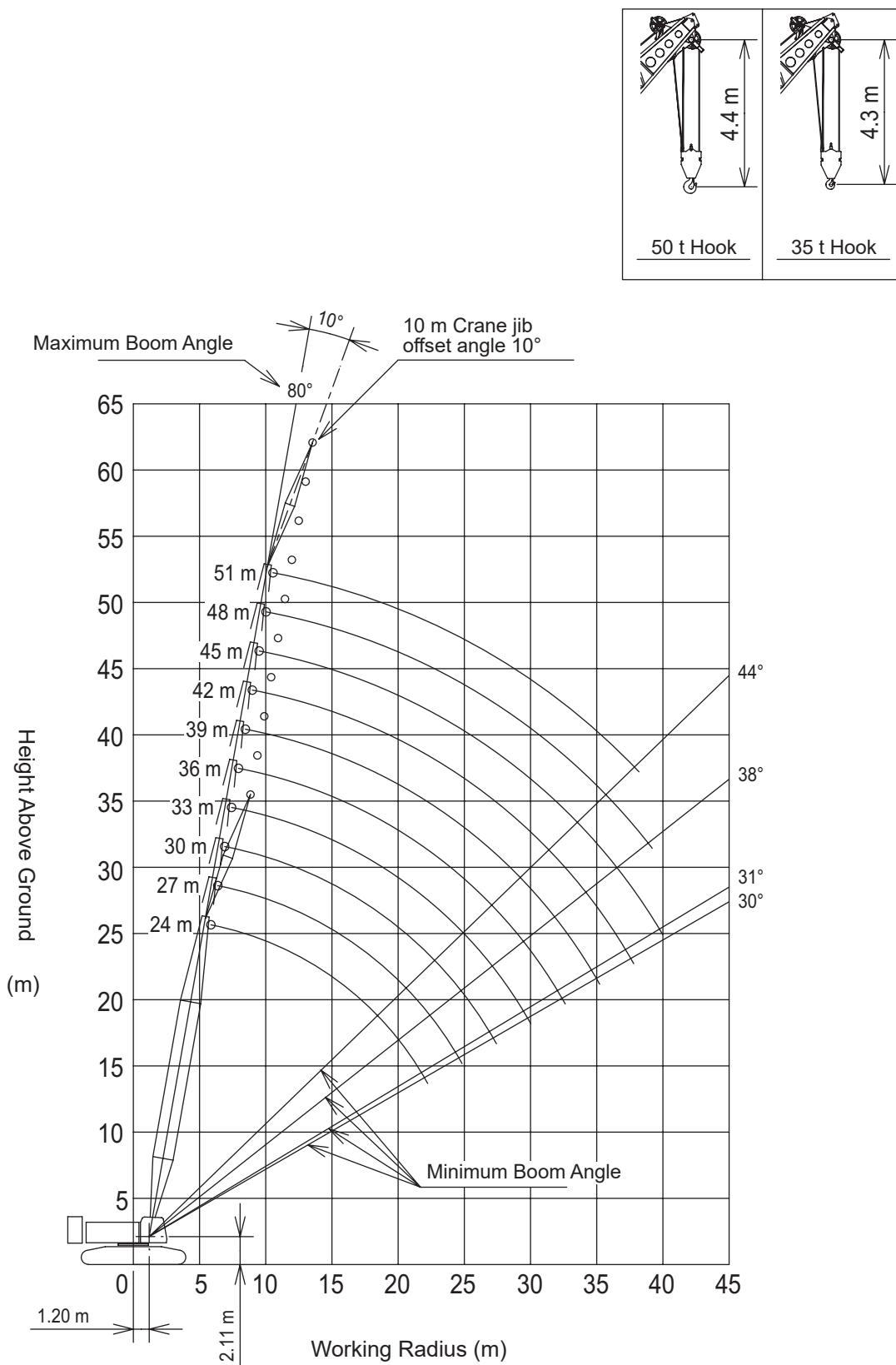
## ■ 22 m Crane Jib



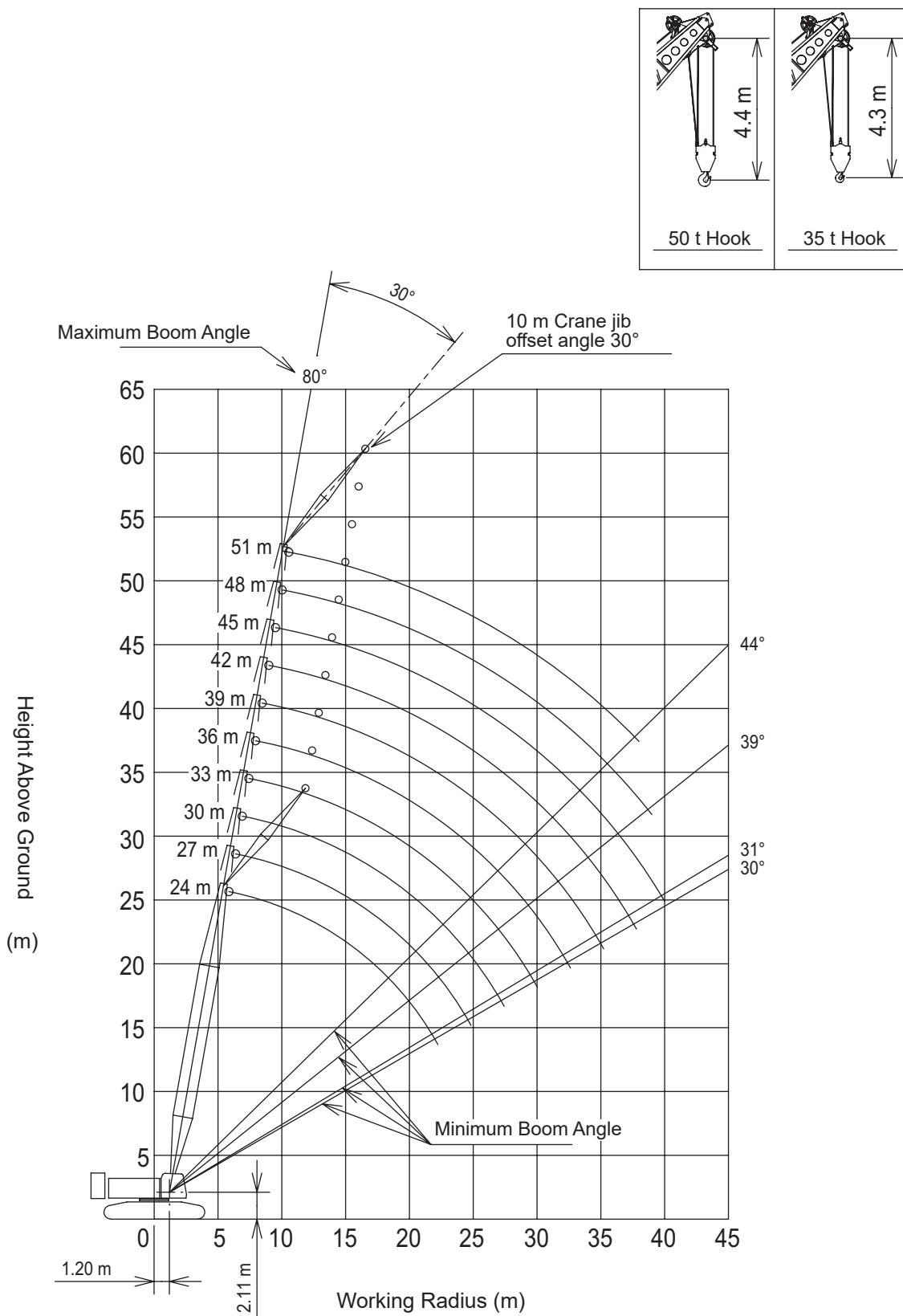
## ■ 28 m Crane Jib



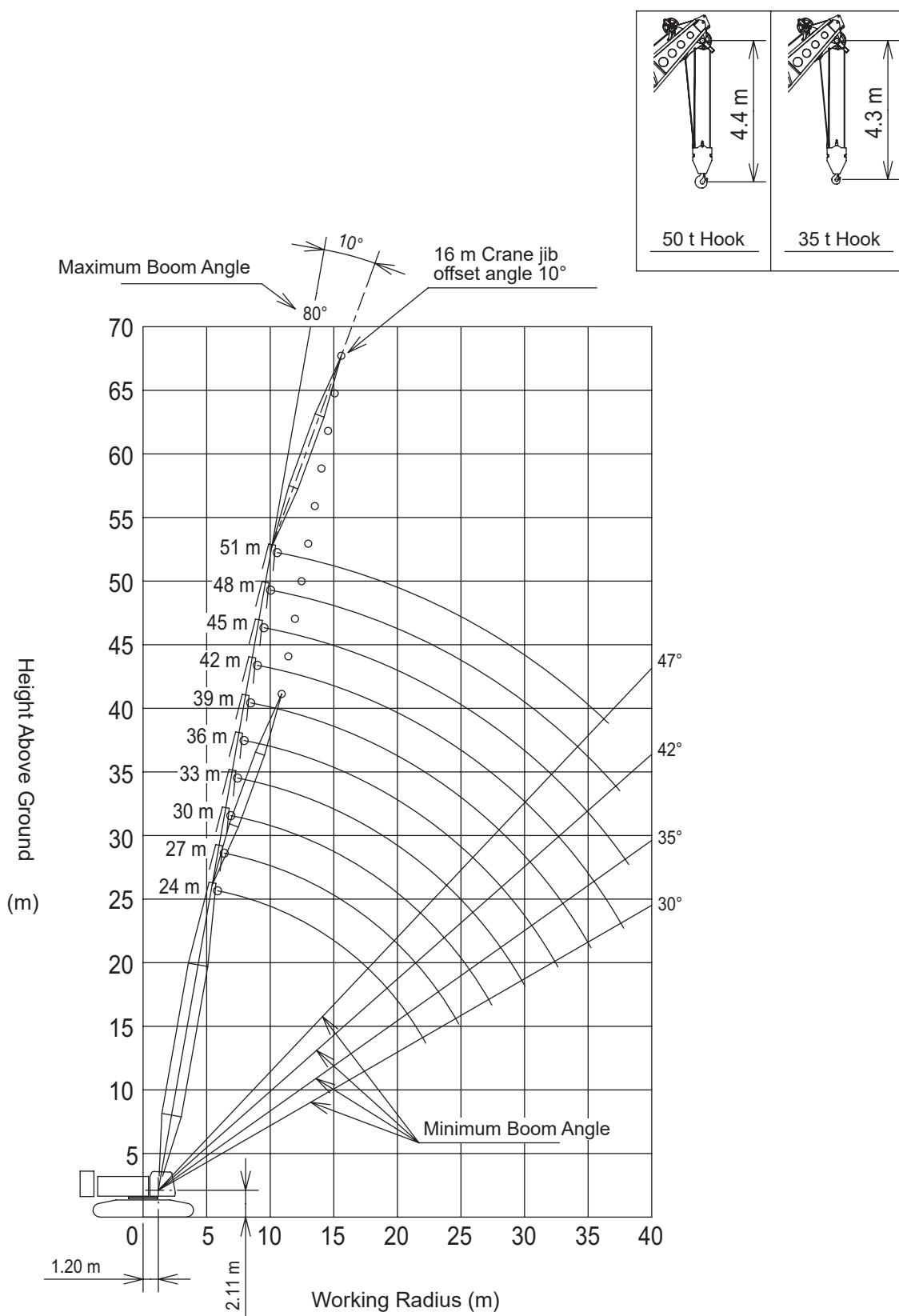
## ■ Main Boom with 10 m Crane Jib (Offset Angle 10°)



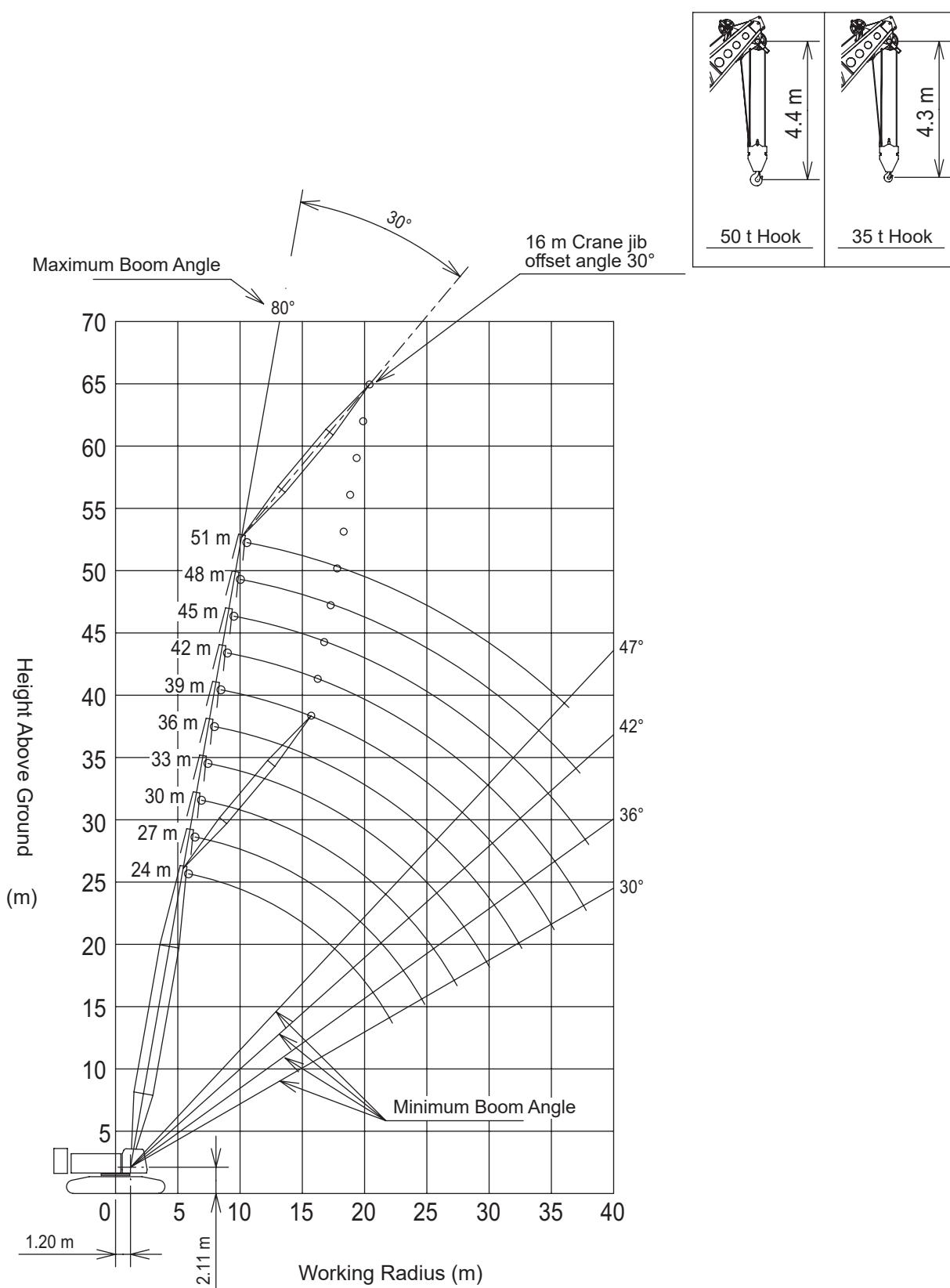
■ Main Boom with 10 m Crane Jib (Offset Angle 30°)



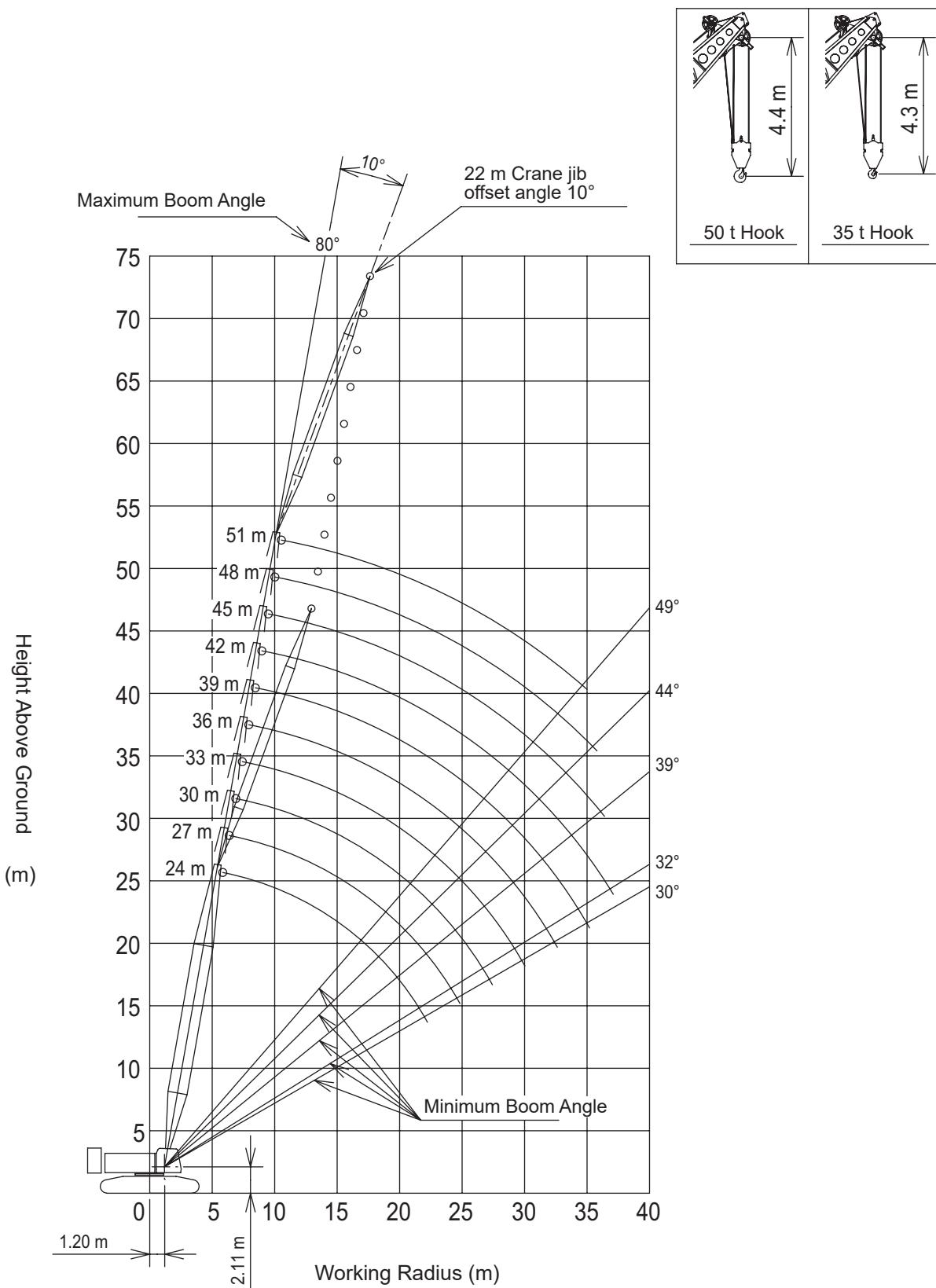
## ■ Main Boom with 16 m Crane Jib (Offset Angle 10°)



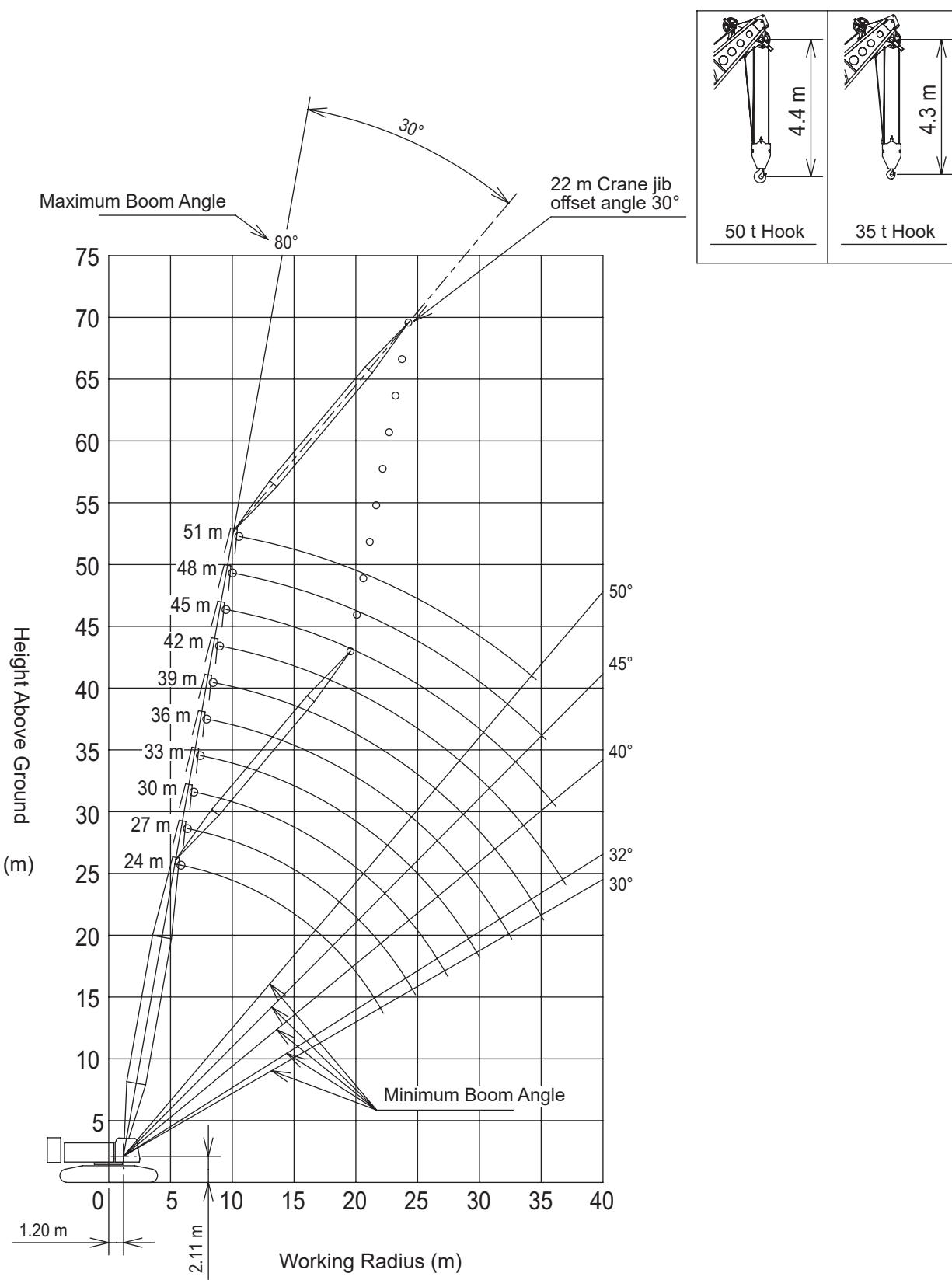
## Main Boom with 16 m Crane Jib (Offset Angle 30°)



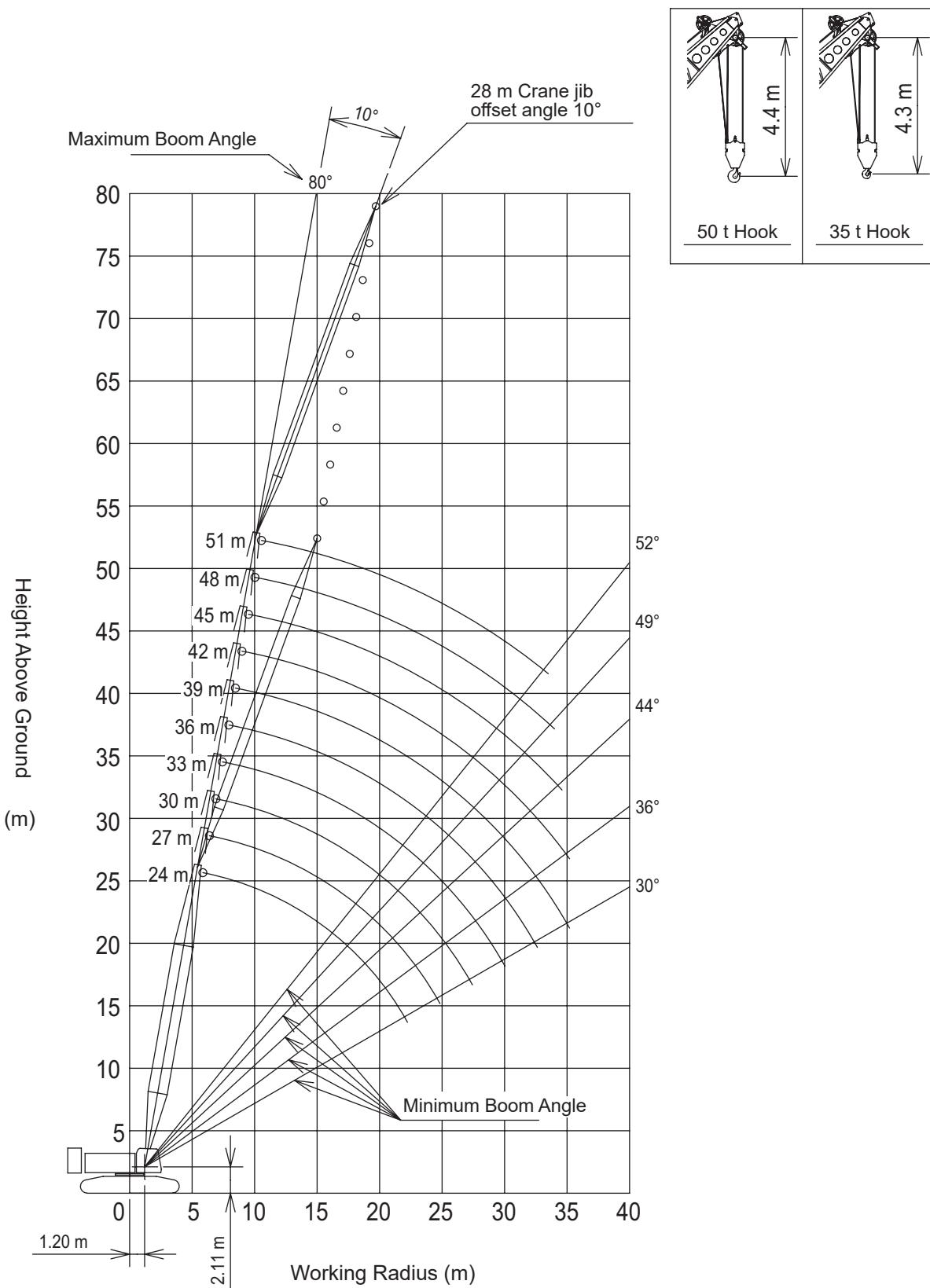
## ■ Main Boom with 22 m Crane Jib (Offset Angle 10°)



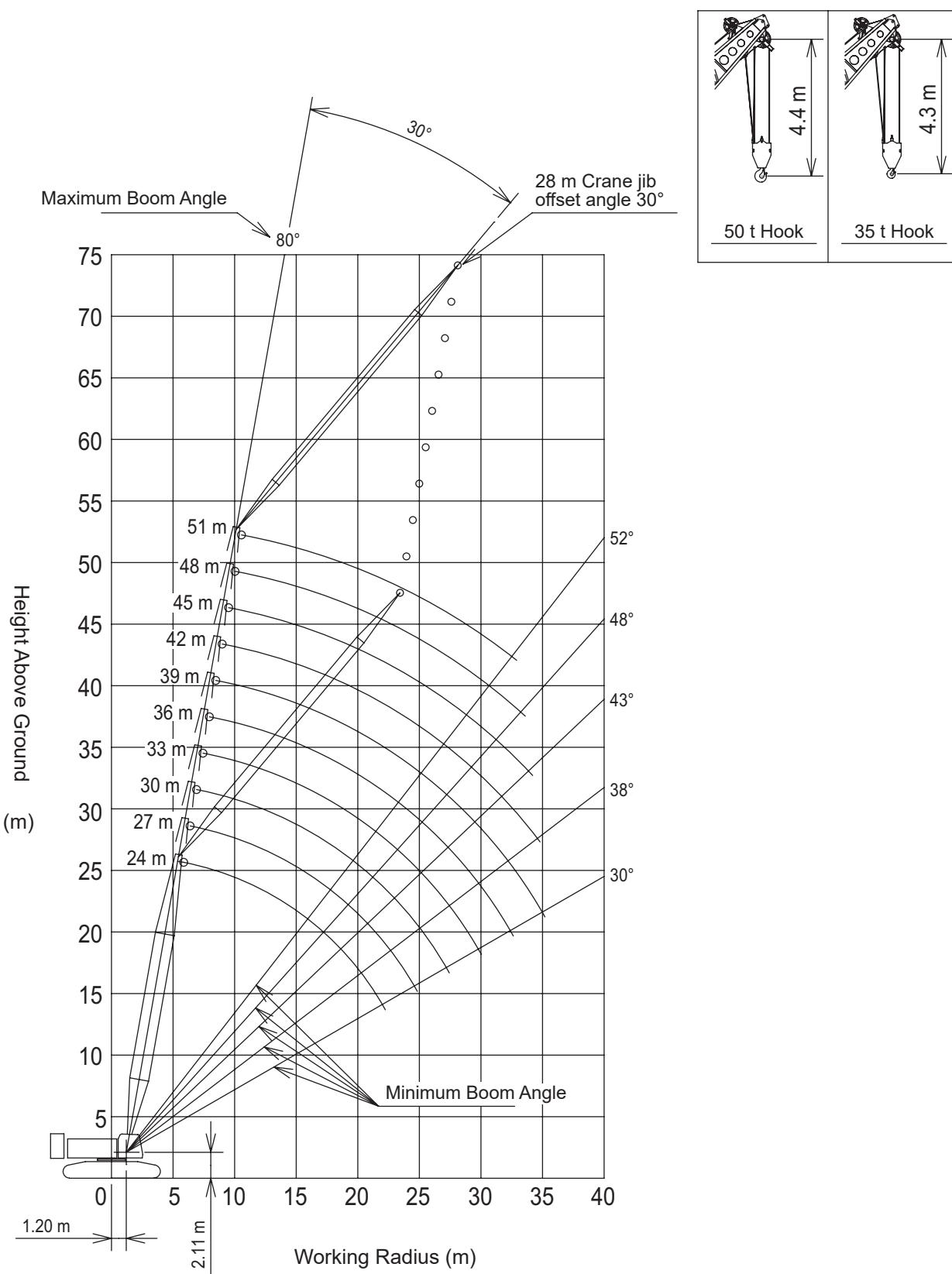
■ Main Boom with 22 m Crane Jib (Offset Angle 30°)



## ■ Main Boom with 28 m Crane Jib (Offset Angle 10°)



■ Main Boom with 28 m Crane Jib (Offset Angle 30°)



# Gross Rated Load Table

## Main Boom



Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)										Working Radius(m)
	12	15	18	21	24	27	30	33	36	39	
3.8	100.00										3.8
4.0	94.95										4.0
4.5	84.40	84.40									4.5
5.0	75.95	75.95	75.95								5.0
5.5	69.05	69.05	68.80	65.70 /5.6							5.5
6.0	63.30	63.30	62.85	60.75	57.25 /6.1	49.85 /6.7					6.0
7.0	54.10	54.10	53.00	51.15	49.30	47.60	44.65 /7.2	39.65 /7.8			7.0
8.0	44.90	44.90	44.75	44.05	42.60	41.25	39.95	38.65	36.00 /8.3	32.95 /8.8	8.0
9.0	38.10	38.05	37.90	37.85	37.45	36.35	35.30	34.15	33.15	32.20	9.0
10.0	33.00	32.90	32.75	32.70	32.60	32.40	31.55	30.55	29.70	28.90	10.0
12.0	26.50 /11.8	25.80	25.60	25.55	25.40	25.35	25.15	25.00	24.40	23.80	12.0
14.0		21.10	20.90	20.80	20.65	20.60	20.40	20.25	20.00	20.00	14.0
16.0			20.30 /14.4	17.55	17.45	17.25	17.20	17.00	16.85	16.60	16.55
18.0				16.20 /17.0	14.90	14.75	14.65	14.45	14.30	14.05	18.0
20.0					13.35 /19.6	12.80	12.70	12.50	12.30	12.05	20.0
22.0						11.25	11.10	10.90	10.70	10.50	22.0
24.0						11.10 /22.2	9.85	9.65	9.45	9.20	24.0
26.0							9.40 /24.8	8.60	8.35	8.15	26.0
28.0								7.95 /27.4	7.45	7.25	28.0
30.0									6.70	6.45	30.0
32.0										5.80	32.0
34.0										5.60 /32.6	34.0
36.0										4.85 /35.2	36.0

Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)							Working Radius(m)	
	42	45	48	51	54	57	60		
9.0	29.90 /9.4	27.60 /9.9						9.0	
10.0	28.05	27.35	25.35 /10.5	22.45 /11.1	19.35 /11.6			10.0	
12.0	23.15	22.60	22.05	21.35	19.15	18.05 /12.2	14.55 /12.7	12.0	
14.0	19.50	19.05	18.65	18.05	17.60	17.15	14.10	14.0	
16.0	16.35	16.20	16.00	15.45	15.10	14.70	13.40	16.0	
18.0	13.80	13.65	13.50	13.40	13.05	12.75	12.35	18.0	
20.0	11.80	11.65	11.50	11.40	11.25	11.15	10.75	20.0	
22.0	10.20	10.05	9.95	9.80	9.65	9.55	9.30	22.0	
24.0	8.90	8.75	8.65	8.50	8.35	8.20	8.00	24.0	
26.0	7.85	7.70	7.55	7.40	7.25	7.15	6.90	26.0	
28.0	6.95	6.80	6.65	6.50	6.35	6.20	6.00	28.0	
30.0	6.15	6.00	5.85	5.70	5.55	5.40	5.20	30.0	
32.0	5.50	5.35	5.20	5.05	4.90	4.75	4.50	32.0	
34.0	4.90	4.75	4.60	4.45	4.30	4.15	3.90	34.0	
36.0	4.40	4.25	4.10	3.90	3.75	3.60	3.40	36.0	
38.0	4.00 /37.8	3.80	3.65	3.45	3.30	3.15	2.90	38.0	
40.0		3.40	3.25	3.05	2.90	2.75	2.50	40.0	
42.0			3.30 /40.4	2.85	2.65	2.50	2.15	42.0	
44.0				2.70 /43.0	2.35	2.20	2.05	1.80	44.0
46.0					2.15 /45.3	1.90	1.75	1.70 /44.6	46.0
48.0						1.70 /47.2	1.70 /46.3		48.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	100	84	72	60	48	-	-	-
50 t	1.17	-	-	-	50	48	36	24	-
35 t	0.90	-	-	-	-	-	35	24	-
12 t	0.51	-	-	-	-	-	-	-	12

## ■ Aux. Sheave



Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)										Working Radius(m)
	12	15	18	21	24	27	30	33	36	39	
4.6	12.00										4.6
5.0	12.00	12.00 /5.3									5.0
5.5	12.00	12.00	12.00 /5.8								5.5
6.0	12.00	12.00	12.00	12.00 /6.3	12.00 /6.9						6.0
7.0	12.00	12.00	12.00	12.00	12.00	12.00 /7.4					7.0
8.0	12.00	12.00	12.00	12.00	12.00	12.00	12.00 /8.5				8.0
9.0	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00 /9.1	12.00 /9.6		9.0
10.0	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	10.0
12.0	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.0
14.0	12.00 /13.1	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	14.0
16.0		12.00 /15.7	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	16.0
18.0			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	18.0
20.0			12.00 /18.2	12.00	12.00	12.00	12.00	12.00	12.00	11.80	20.0
22.0				12.00 /20.8	11.00	10.85	10.65	10.45	10.20	10.15	22.0
24.0					10.10 /23.4	9.60	9.35	9.15	8.90	8.85	24.0
26.0						8.50	8.30	8.10	7.85	7.80	26.0
28.0							7.40	7.20	6.95	6.85	28.0
30.0							7.20 /28.6	6.40	6.15	6.10	30.0
32.0								6.00 /31.2	5.50	5.40	32.0
34.0									5.00 /33.8	4.85	34.0
36.0										4.30	36.0
38.0										4.25 /36.4	38.0

Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)						Working Radius(m)
	42	45	48	51	54	57	
10.0	12.00 /10.2	12.00 /10.7	12.00 /11.3	12.00 /11.8			10.0
12.0	12.00	12.00	12.00	12.00	12.00 /12.4	12.00 /12.9	12.0
14.0	12.00	12.00	12.00	12.00	12.00	12.00	14.0
16.0	12.00	12.00	12.00	12.00	12.00	12.00	16.0
18.0	12.00	12.00	12.00	12.00	12.00	12.00	18.0
20.0	11.55	11.35	11.25	11.10	10.80	10.45	20.0
22.0	9.90	9.75	9.60	9.50	9.35	9.10	22.0
24.0	8.60	8.45	8.30	8.20	8.05	7.90	24.0
26.0	7.55	7.35	7.20	7.10	6.95	6.80	26.0
28.0	6.60	6.45	6.30	6.15	6.00	5.85	28.0
30.0	5.85	5.65	5.50	5.40	5.20	5.05	30.0
32.0	5.15	5.00	4.85	4.70	4.55	4.40	32.0
34.0	4.55	4.40	4.25	4.10	3.95	3.80	34.0
36.0	4.05	3.90	3.75	3.60	3.40	3.25	36.0
38.0	3.60	3.45	3.25	3.10	2.95	2.80	38.0
40.0	3.40 /39.0	3.05	2.85	2.70	2.55	2.35	40.0
42.0		2.75 /41.6	2.50	2.35	2.20 /41.7	2.20 /40.8	42.0
44.0			2.20	2.20 /42.8			44.0

- The rated loads are determined according to EN13000 rating with the machine on firm level ground.
- The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 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.
- Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- The counter weight is 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)
- Hook weight are shown in the table below.

Hook Capacity	Hook Weight (t)
100 t	1.20
50 t	1.17
35 t	0.90
12 t	0.51

■ Main Boom with Aux. Sheave



Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)									Working Radius(m)
	12	15	18	21	24	27	30	33	36	
3.8	97.60									3.8
4.0	94.95									4.0
4.5	84.40	84.40								4.5
5.0	75.95	75.95	75.95							5.0
5.5	69.05	69.05	68.80	65.10 /5.6						5.5
6.0	63.30	63.30	62.80	60.20	56.60 /6.1	49.20 /6.7				6.0
7.0	54.10	54.10	52.40	50.50	48.70	47.00	44.00 /7.2	39.00 /7.8		7.0
8.0	44.50	44.40	44.30	43.50	42.00	40.70	39.40	38.00	35.40 /8.3	8.0
9.0	37.70	37.60	37.50	37.40	36.80	35.70	34.70	33.50	32.50	9.0
10.0	32.60	32.50	32.30	32.30	32.10	31.80	30.90	29.90	29.00	10.0
12.0	26.10 /11.8	25.40	25.20	25.10	25.00	24.90	24.70	24.50	23.80	12.0
14.0		20.70	20.50	20.40	20.20	20.10	19.90	19.80	19.50	14.0
16.0		19.90 /14.4	17.10	17.00	16.80	16.70	16.50	16.40	16.10	16.0
18.0			15.80 /17.0	14.50	14.30	14.20	14.00	13.80	13.60	18.0
20.0				12.90 /19.6	12.40	12.30	12.00	11.80	11.60	20.0
22.0					10.80	10.70	10.50	10.30	10.00	22.0
24.0					10.70 /22.2	9.40	9.20	9.00	8.70	24.0
26.0						9.00 /24.8	8.20	7.90	7.70	26.0
28.0							7.50 /27.4	7.00	6.80	28.0
30.0								6.30	6.00	30.0
32.0									5.40	32.0
34.0									5.20 /32.6	4.70
36.0										4.40 /35.2

Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)						Working Radius(m)
	42	45	48	51	54	57	
9.0	29.20 /9.4	26.90 /9.9					9.0
10.0	27.40	26.70	24.70 /10.5	21.40 /11.1	18.30 /11.6		10.0
12.0	22.50	21.90	21.40	20.70	18.10	17.00 /12.2	12.0
14.0	18.90	18.40	17.90	17.30	16.90	16.30	14.0
16.0	15.80	15.70	15.30	14.80	14.40	14.00	16.0
18.0	13.30	13.10	13.00	12.70	12.40	12.00	18.0
20.0	11.30	11.10	11.00	10.90	10.70	10.40	20.0
22.0	9.70	9.60	9.40	9.30	9.10	9.00	22.0
24.0	8.40	8.30	8.10	8.00	7.80	7.70	24.0
26.0	7.40	7.20	7.00	6.90	6.70	6.60	26.0
28.0	6.50	6.30	6.10	6.00	5.80	5.70	28.0
30.0	5.70	5.50	5.40	5.20	5.00	4.90	30.0
32.0	5.00	4.80	4.70	4.50	4.40	4.20	32.0
34.0	4.40	4.30	4.10	3.90	3.80	3.60	34.0
36.0	3.90	3.80	3.60	3.40	3.20	3.10	36.0
38.0	3.50 /37.8	3.30	3.20	3.00	2.80	2.60	38.0
40.0		2.90	2.80	2.50	2.40	2.20	40.0
42.0		2.90 /40.4	2.40	2.20	2.20 /41.0		42.0
43.0			2.20				43.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	100	84	72	60	48	-	-	-
50 t	1.17	-	-	-	50	48	36	24	-
35 t	0.90	-	-	-	-	-	35	24	-
12 t	0.51	-	-	-	-	-	-	-	12

## ■ Crane Jib



Unit: ton loads /working radius

Boom Length (m)	24.0								Boom Length (m)		
	Jib Length (m)		10.0		16.0		22.0				
	Offset Angle (deg)	Radius (m)	10.0	30.0	10.0	30.0	10.0	30.0	10.0	30.0	Offset Angle (deg)
9.5	12.00										9.5
10.0	12.00				12.00 /11.6						10.0
12.0	12.00	11.25 /12.5	12.00			8.80 /13.7					12.0
14.0	12.00	10.75	12.00			8.80			5.50 /15.8		14.0
16.0	12.00	10.10	12.00	8.00 /16.4	8.80				5.50		16.0
18.0	12.00	9.60	12.00	7.60	8.80				5.50		18.0
20.0	12.00	9.15	12.00	7.20	8.80	6.00 /20.3			5.50		20.0
22.0	11.45	8.75	11.75	6.85	8.80	5.75	5.50				22.0
24.0	10.15	8.40	10.40	6.50	8.45	5.45	5.50	3.40 /24.2			24.0
26.0	9.05	8.10	9.30	6.25	8.15	5.20	5.50	3.40			26.0
28.0	8.10	7.85	8.35	6.00	7.80	4.95	5.45	3.40			28.0
30.0	7.35	7.45	7.60	5.75	7.50	4.75	5.20	3.40			30.0
32.0	6.70 /31.9	6.70	6.90	5.55	7.05	4.55	5.00	3.40			32.0
34.0		6.55 /32.5	6.30	5.40	6.45	4.35	4.80	3.40			34.0
36.0			5.75	5.30	5.90	4.20	4.65	3.40			36.0
38.0			5.40 /37.6	5.20	5.45	4.10	4.40	3.40			38.0
40.0				5.20 /38.5	5.00	4.00	4.25	3.30			40.0
42.0					4.65	3.90	4.15	3.20			42.0
44.0					4.45 /43.2	3.85	4.00	3.10			44.0
46.0						3.85 /44.5	3.85	3.00			46.0
48.0							3.75	2.95			48.0
50.0							3.65 /48.9	2.90			50.0
52.0								2.90 /50.5			52.0

Unit: ton loads /working radius

Boom Length (m)	27.0								Boom Length (m)		
	Jib Length (m)		10.0		16.0		22.0				
	Offset Angle (deg)	Radius (m)	10.0	30.0	10.0	30.0	10.0	30.0	10.0	30.0	Offset Angle (deg)
10.0	12.00										10.0
12.0	12.00	11.25 /13.0	12.00 /12.1								12.0
14.0	12.00	10.90	12.00		8.80 /14.2						14.0
16.0	12.00	10.35	12.00	7.95 /16.9	8.80			5.50 /16.3			16.0
18.0	12.00	9.80	12.00	7.75	8.80			5.50			18.0
20.0	12.00	9.35	12.00	7.35	8.80	6.00 /20.8	5.50				20.0
22.0	11.30	8.95	11.60	7.00	8.80	5.85	5.50				22.0
24.0	10.00	8.60	10.25	6.65	8.65	5.55	5.50	3.40 /24.7			24.0
26.0	8.90	8.30	9.15	6.40	8.30	5.30	5.50	3.40			26.0
28.0	7.95	8.05	8.25	6.15	8.00	5.05	5.50	3.40			28.0
30.0	7.20	7.30	7.45	5.90	7.60	4.85	5.40	3.40			30.0
32.0	6.50	6.60	6.75	5.70	6.90	4.65	5.15	3.40			32.0
34.0	5.90	5.95	6.15	5.55	6.30	4.50	4.95	3.40			34.0
36.0	5.75 /34.5	5.65 /35.1	5.60	5.40	5.75	4.35	4.75	3.40			36.0
38.0			5.15	5.25	5.30	4.20	4.55	3.40			38.0
40.0			4.70	4.80	4.85	4.10	4.45	3.40			40.0
42.0			4.70 /40.2	4.55 /41.1	4.45	4.00	4.25	3.25			42.0
44.0					4.15	3.90	4.10	3.15			44.0
46.0					3.85 /45.8	3.85	3.90	3.10			46.0
48.0						3.75 /47.1	3.60	3.00			48.0
50.0							3.35	2.95			50.0
52.0							3.20 /51.5	2.90			52.0
54.0								2.90 /53.1			54.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Hook weight are shown in the table below.

Hook Capacity	Hook Weight (t)
100 t	1.20
50 t	1.17
35 t	0.90
12 t	0.51

## ■ Crane Jib



Unit: ton loads /working radius

Boom Length (m)	30								Boom Length (m)		
	Jib Length (m)		10		16		22				
	10	30	10	30	10	30	10	30		Offset Angle (deg)	
Radius (m)									Radius (m)		
10.0	12.00 /10.6									10.0	
12.0	12.00	11.20 /13.6	12.00 /12.7							12.0	
14.0	12.00	11.05	12.00		8.80 /14.8					14.0	
16.0	12.00	10.50	12.00	7.95 /17.5	8.80		5.50 /16.9			16.0	
18.0	12.00	10.00	12.00	7.85	8.80		5.50			18.0	
20.0	12.00	9.55	12.00	7.45	8.80	6.00 /21.4	5.50			20.0	
22.0	11.10	9.20	11.40	7.10	8.80	5.90	5.50			22.0	
24.0	9.75	8.85	10.05	6.80	8.75	5.60	5.50	3.40 /25.3		24.0	
26.0	8.65	8.55	8.95	6.55	8.45	5.35	5.50	3.40		26.0	
28.0	7.75	7.95	8.00	6.30	8.20	5.15	5.50	3.40		28.0	
30.0	6.95	7.15	7.20	6.05	7.40	4.95	5.50	3.40		30.0	
32.0	6.30	6.40	6.50	5.85	6.70	4.75	5.35	3.40		32.0	
34.0	5.70	5.80	5.90	5.70	6.10	4.60	5.10	3.40		34.0	
36.0	5.15	5.25	5.40	5.55	5.55	4.45	4.90	3.40		36.0	
38.0	4.90 /37.1	4.80 /37.7	4.90	5.10	5.10	4.30	4.70	3.40		38.0	
40.0			4.50	4.65	4.65	4.15	4.55	3.40		40.0	
42.0			4.15	4.20	4.25	4.05	4.40	3.35		42.0	
44.0			4.00 /42.8	3.90 /43.7	3.95	3.95	4.05	3.25		44.0	
46.0					3.60	3.75	3.70	3.15		46.0	
48.0					3.35	3.45	3.40	3.05		48.0	
50.0					3.30 /48.4	3.20 /49.7	3.15	3.00		50.0	
52.0							2.90	2.95		52.0	
54.0							2.70	2.80		54.0	
56.0							2.70 /54.1	2.60 /55.7		56.0	

Unit: ton loads /working radius

Boom Length (m)	33								Boom Length (m)		
	Jib Length (m)		10		16		22				
	10	30	10	30	10	30	10	30		Offset Angle (deg)	
Radius (m)									Radius (m)		
10.0	12.00 /11.1									10.0	
12.0	12.00		12.00 /13.2							12.0	
14.0	12.00	11.20 /14.1	12.00		8.80 /15.3					14.0	
16.0	12.00	10.65	12.00		8.80		5.50 /17.4			16.0	
18.0	12.00	10.20	12.00	7.95	8.80		5.50			18.0	
20.0	12.00	9.75	12.00	7.55	8.80	6.00 /21.9	5.50			20.0	
22.0	10.90	9.40	11.25	7.25	8.80	5.95	5.50			22.0	
24.0	9.60	9.05	9.90	6.95	8.80	5.70	5.50	3.40 /25.8		24.0	
26.0	8.50	8.75	8.75	6.65	8.65	5.45	5.50	3.40		26.0	
28.0	7.55	7.80	7.85	6.40	8.05	5.25	5.50	3.40		28.0	
30.0	6.75	6.95	7.05	6.20	7.25	5.05	5.50	3.40		30.0	
32.0	6.05	6.25	6.35	6.00	6.55	4.85	5.40	3.40		32.0	
34.0	5.45	5.60	5.70	5.80	5.90	4.70	5.20	3.40		34.0	
36.0	4.95	5.05	5.20	5.45	5.35	4.55	5.05	3.40		36.0	
38.0	4.50	4.55	4.70	4.90	4.90	4.40	4.85	3.40		38.0	
40.0	4.10 /39.7	4.10	4.30	4.45	4.45	4.25	4.60	3.40		40.0	
42.0		4.05 /40.3	3.90	4.05	4.05	4.15	4.20	3.40		42.0	
44.0			3.55	3.65	3.70	3.95	3.85	3.30		44.0	
46.0			3.35 /45.4	3.30	3.40	3.60	3.50	3.20		46.0	
48.0				3.25 /46.3	3.10	3.30	3.25	3.15		48.0	
50.0					2.85	3.00	2.95	3.05		50.0	
52.0					2.75 /51.0	2.70	2.70	2.95		52.0	
54.0						2.65 /52.3	2.50	2.65		54.0	
56.0							2.30	2.40		56.0	
58.0							2.25 /56.7	2.20		58.0	

- The rated loads are determined according to EN13000 rating with the machine on firm level ground.
- The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 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.
- Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- The offset angles shown are of jib boom offset angle against the main boom, under load.
- The counter weight is 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)
- Hook weight are shown in the table below.

Hook Capacity	Hook Weight (t)
100 t	1.20
50 t	1.17
35 t	0.90
12 t	0.51

## ■ Crane Jib



Unit: ton loads /working radius

Boom Length (m)	36								Boom Length (m)	
	Jib Length (m)		10		16		22			
	Offset Angle (deg)	Radius (m)	10	30	10	30	10	30	10	30
11.7	12.00									11.7
12.0	12.00			12.00 /13.8						12.0
14.0	12.00	11.15 /14.7	12.00			8.80 /15.9				14.0
16.0	12.00	10.80	12.00			8.80				16.0
18.0	12.00	10.35	12.00	7.90 /18.6	8.80			5.50		18.0
20.0	12.00	9.95	12.00	7.65	8.80			5.50		20.0
22.0	10.65	9.55	11.00	7.35	8.80	5.95 /22.5	5.50			22.0
24.0	9.35	9.20	9.65	7.05	8.80	5.75	5.50			24.0
26.0	8.25	8.55	8.55	6.80	8.80	5.55	5.50	3.40 /26.4		26.0
28.0	7.30	7.60	7.60	6.55	7.85	5.30	5.50	3.40		28.0
30.0	6.50	6.75	6.80	6.30	7.00	5.10	5.50	3.40		30.0
32.0	5.80	6.00	6.10	6.10	6.30	4.95	5.50	3.40		32.0
34.0	5.20	5.40	5.50	5.80	5.70	4.75	5.35	3.40		34.0
36.0	4.70	4.85	4.95	5.25	5.15	4.60	5.15	3.40		36.0
38.0	4.20	4.35	4.45	4.75	4.65	4.50	4.80	3.40		38.0
40.0	3.80	3.90	4.05	4.25	4.25	4.35	4.35	3.40		40.0
42.0	3.45	3.50	3.65	3.85	3.85	4.15	4.00	3.40		42.0
44.0	3.40 /42.3	3.35 /42.9	3.30	3.45	3.50	3.75	3.65	3.35		44.0
46.0			3.00	3.15	3.20	3.40	3.30	3.30		46.0
48.0			2.70	2.80	2.90	3.10	3.00	3.20		48.0
50.0				2.70 /48.9	2.65	2.80	2.75	3.05		50.0
52.0					2.40	2.50	2.50	2.75		52.0
54.0						2.20 /53.6	2.25	2.30		54.0
56.0							2.20 /54.4	2.20		56.0
56.4								2.20		56.4

Unit: ton loads /working radius

Boom Length (m)	39								Boom Length (m)	
	Jib Length (m)		10		16		22			
	Offset Angle (deg)	Radius (m)	10	30	10	30	10	30	10	30
12.0	12.00 /12.2									12.0
14.0	12.00	11.15 /15.2	12.00 /14.3							14.0
16.0	12.00	10.95	12.00		8.80 /16.4					16.0
18.0	12.00	10.50	12.00	7.90 /19.1	8.80		5.50 /18.5			18.0
20.0	12.00	10.10	12.00	7.75	8.80		5.50			20.0
22.0	10.60	9.70	10.90	7.45	8.80	5.95 /23.0	5.50			22.0
24.0	9.25	9.40	9.60	7.15	8.80	5.85	5.50			24.0
26.0	8.15	8.50	8.45	6.90	8.70	5.60	5.50	3.40 /26.9		26.0
28.0	7.20	7.50	7.50	6.65	7.75	5.40	5.50	3.40		28.0
30.0	6.40	6.70	6.70	6.45	6.90	5.20	5.50	3.40		30.0
32.0	5.70	5.95	6.00	6.25	6.20	5.00	5.50	3.40		32.0
34.0	5.10	5.30	5.40	5.75	5.60	4.85	5.50	3.40		34.0
36.0	4.60	4.75	4.85	5.15	5.05	4.70	5.20	3.40		36.0
38.0	4.10	4.25	4.35	4.65	4.55	4.55	4.70	3.40		38.0
40.0	3.70	3.80	3.95	4.20	4.10	4.45	4.25	3.40		40.0
42.0	3.30	3.40	3.55	3.75	3.75	4.10	3.85	3.40		42.0
44.0	3.00	3.05	3.20	3.40	3.40	3.70	3.50	3.40		44.0
46.0	2.85 /44.9	2.80 /45.5	2.90	3.05	3.05	3.35	3.20	3.35		46.0
48.0			2.60	2.75	2.75	3.00	2.90	3.25		48.0
50.0			2.35	2.45	2.50	2.70	2.65	2.95		50.0
52.0			2.30 /50.6	2.25 /51.5	2.25	2.45	2.40	2.65		52.0
54.0					2.20 /52.5	2.20	2.20 /53.6	2.40		54.0
56.0							2.20 /55.6			56.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Hook weight are shown in the table below.

Hook Capacity	Hook Weight (t)
100 t	1.20
50 t	1.17
35 t	0.90
12 t	0.51

■ Crane Jib



Unit: ton loads /working radius

Boom Length (m)	42								Boom Length (m)	
	Jib Length (m)		10		16		22			
	Offset Angle (deg)	Radius (m)	10	30	10	30	10	30		
12.0		12.00 /12.8							12.0	
14.0	12.00	11.10 /15.8	12.00 /14.9						14.0	
16.0	12.00	11.05	12.00		8.80 /17.0				16.0	
18.0	12.00	10.60	12.00	7.85 /19.7	8.80		5.50 /19.1		18.0	
20.0	12.00	10.25	12.00	7.85	8.80		5.50		20.0	
22.0	10.35	9.85	10.70	7.50	8.80	5.95 /23.6	5.50		22.0	
24.0	9.00	9.45	9.35	7.25	8.80	5.90	5.50		24.0	
26.0	7.90	8.30	8.25	7.00	8.50	5.65	5.50	3.40 /27.5	26.0	
28.0	6.95	7.30	7.30	6.75	7.55	5.45	5.50	3.40	28.0	
30.0	6.15	6.45	6.45	6.55	6.70	5.25	5.50	3.40	30.0	
32.0	5.50	5.75	5.75	6.20	6.00	5.10	5.50	3.40	32.0	
34.0	4.85	5.10	5.15	5.55	5.35	4.90	5.50	3.40	34.0	
36.0	4.35	4.55	4.60	5.00	4.80	4.75	5.00	3.40	36.0	
38.0	3.85	4.05	4.15	4.45	4.35	4.65	4.50	3.40	38.0	
40.0	3.45	3.60	3.70	4.00	3.90	4.35	4.05	3.40	40.0	
42.0	3.05	3.20	3.30	3.55	3.50	3.90	3.65	3.40	42.0	
44.0	2.75	2.80	2.95	3.20	3.15	3.50	3.30	3.40	44.0	
46.0	2.45	2.50	2.65	2.85	2.85	3.15	3.00	3.40	46.0	
48.0	2.20 /47.5	2.20	2.35	2.50	2.55	2.85	2.70	3.10	48.0	
50.0		2.20 /48.1	2.20 /49.2	2.25	2.30	2.50	2.40	2.80	50.0	
52.0				2.20 /50.3	2.20 /50.8	2.25	2.20 /51.6	2.50	52.0	
54.0						2.20 /52.4		2.25	54.0	
54.4								2.20	54.4	

Unit: ton loads /working radius

Boom Length (m)	45								Boom Length (m)	
	Jib Length (m)		10		16		22			
	Offset Angle (deg)	Radius (m)	10	30	10	30	10	30		
12.0		12.00 /13.3							12.0	
14.0	12.00			12.00 /15.4					14.0	
16.0	12.00	11.10 /16.3	12.00		8.80 /17.5				16.0	
18.0	12.00	10.75	12.00		8.80		5.50 /19.6		18.0	
20.0	11.85	10.35	12.00	7.85 /20.2	8.80		5.50		20.0	
22.0	10.20	10.00	10.55	7.60	8.80		5.50		22.0	
24.0	8.85	9.35	9.20	7.35	8.80	5.95 /24.1	5.50		24.0	
26.0	7.75	8.15	8.10	7.10	8.35	5.70	5.50		26.0	
28.0	6.80	7.15	7.10	6.85	7.40	5.50	5.50	3.40	28.0	
30.0	6.00	6.35	6.30	6.65	6.55	5.35	5.50	3.40	30.0	
32.0	5.30	5.60	5.60	6.10	5.85	5.15	5.50	3.40	32.0	
34.0	4.70	4.95	5.00	5.45	5.20	5.00	5.40	3.40	34.0	
36.0	4.15	4.40	4.45	4.85	4.65	4.85	4.85	3.40	36.0	
38.0	3.70	3.90	3.95	4.30	4.15	4.70	4.35	3.40	38.0	
40.0	3.25	3.45	3.55	3.85	3.75	4.20	3.90	3.40	40.0	
42.0	2.90	3.05	3.15	3.40	3.35	3.75	3.50	3.40	42.0	
44.0	2.55	2.65	2.80	3.05	3.00	3.40	3.15	3.40	44.0	
46.0	2.25	2.35	2.50	2.70	2.65	3.00	2.80	3.30	46.0	
48.0	2.20 /46.3	2.20 /47.0	2.20	2.40	2.35	2.70	2.50	2.95	48.0	
50.0				2.20 /49.3	2.20 /49.2	2.40	2.25	2.65	50.0	
52.0						2.20 /51.3	2.20 /50.4	2.35	52.0	
54.0								2.20 /53.2	54.0	

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Hook weight are shown in the table below.

Hook Capacity	Hook Weight (t)
100 t	1.20
50 t	1.17
35 t	0.90
12 t	0.51

## ■ Crane Jib



Unit: ton loads /working radius

Boom Length (m)	48								Boom Length (m)		
	Jib Length (m)		10		16		22				
	Offset Angle (deg)	Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg)
13.9	12.00										13.9
14.0	12.00										14.0
16.0	12.00	11.05 /16.9	12.00								16.0
18.0	12.00	10.85	12.00		8.80 /18.1						18.0
20.0	11.70	10.45	12.00	7.85 /20.8	8.80		5.50 /20.2				20.0
22.0	10.05	10.15	10.40	7.70	8.80		5.50				22.0
24.0	8.70	9.20	9.05	7.40	8.80	5.90 /24.6	5.50				24.0
26.0	7.60	8.05	7.90	7.15	8.20	5.75	5.50				26.0
28.0	6.65	7.05	6.95	6.95	7.25	5.55	5.50	3.40 /28.5			28.0
30.0	5.85	6.20	6.15	6.75	6.40	5.40	5.50	3.40			30.0
32.0	5.15	5.45	5.45	5.95	5.70	5.20	5.50	3.40			32.0
34.0	4.55	4.80	4.80	5.30	5.05	5.05	5.25	3.40			34.0
36.0	4.00	4.25	4.30	4.70	4.50	4.90	4.70	3.40			36.0
38.0	3.55	3.75	3.80	4.20	4.00	4.55	4.20	3.40			38.0
40.0	3.10	3.30	3.35	3.70	3.55	4.10	3.75	3.40			40.0
42.0	2.70	2.90	3.00	3.30	3.20	3.65	3.35	3.40			42.0
44.0	2.40	2.50	2.65	2.90	2.80	3.25	3.00	3.40			44.0
46.0	2.20 /45.3	2.20	2.30	2.55	2.50	2.90	2.65	3.20			46.0
48.0			2.20 /46.6	2.25	2.20	2.55	2.35	2.85			48.0
50.0				2.20 /48.3		2.25	2.20 /49.2	2.55			50.0
52.0						2.20 /50.4		2.25			52.0
52.3								2.20			52.3

Unit: ton loads /working radius

Boom Length (m)	51								Boom Length (m)		
	Jib Length (m)		10		16		22				
	Offset Angle (deg)	Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg)
14.0	12.00 /14.4										14.0
16.0	12.00	11.05 /17.4	12.00 /16.5								16.0
18.0	12.00	10.95	12.00		8.80 /18.6						18.0
20.0	11.40	10.60	11.75	7.85 /21.3	8.80		5.50 /20.7				20.0
22.0	9.90	10.25	10.30	7.75	8.80		5.50				22.0
24.0	8.60	9.10	8.95	7.50	8.80	5.90 /25.2	5.50				24.0
26.0	7.45	7.95	7.80	7.25	8.05	5.80	5.50				26.0
28.0	6.50	6.95	6.85	7.00	7.10	5.65	5.50	3.40 /29.1			28.0
30.0	5.70	6.10	6.00	6.65	6.25	5.45	5.50	3.40			30.0
32.0	5.00	5.35	5.30	5.85	5.55	5.30	5.50	3.40			32.0
34.0	4.40	4.70	4.70	5.20	4.90	5.10	5.10	3.40			34.0
36.0	3.85	4.10	4.15	4.60	4.35	5.00	4.55	3.40			36.0
38.0	3.35	3.60	3.65	4.05	3.85	4.45	4.05	3.40			38.0
40.0	2.95	3.15	3.20	3.60	3.45	4.00	3.60	3.40			40.0
42.0	2.55	2.75	2.85	3.15	3.05	3.55	3.20	3.40			42.0
44.0	2.20	2.40	2.45	2.80	2.70	3.15	2.85	3.40			44.0
46.0		2.20 /45.1	2.20 /45.6	2.45	2.35	2.75	2.50	3.05			46.0
48.0				2.20 /47.4	2.20 /47.0	2.45	2.20	2.75			48.0
50.0						2.20 /49.6		2.40			50.0
52.0								2.20 /51.6			52.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Hook weight are shown in the table below.

Hook Capacity	Hook Weight (t)
100 t	1.20
50 t	1.17
35 t	0.90
12 t	0.51

## ■ Main Boom with Crane Jib



Unit: ton loads /working radius

Boom Length (m)	24								Boom Length (m)
	Jib Length (m)		10		16		22		
Offset Angle (deg) Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) Radius (m)
6.0	50.00 /6.1	50.00 /6.1	50.00 /6.1	50.00 /6.1	50.00 /6.1	50.00 /6.1	50.00 /6.1	50.00 /6.1	
7.0	47.80	47.45	47.10	46.50	46.30	45.35	45.40	44.05	6.0
8.0	41.10	40.80	40.45	39.90	39.65	38.85	38.80	37.65	7.0
9.0	35.95	35.70	35.30	34.85	34.55	33.85	33.70	32.70	8.0
10.0	31.35	31.10	30.80	30.35	30.15	29.50	29.40	28.50	9.0
12.0	24.15	24.00	23.65	23.35	23.00	22.55	22.30	21.65	10.0
14.0	19.40	19.30	18.90	18.65	18.30	17.95	17.65	17.15	12.0
16.0	16.05	15.95	15.50	15.35	14.95	14.70	14.30	13.95	14.0
18.0	13.50	13.45	13.00	12.90	12.45	12.30	11.85	11.60	16.0
20.0	11.55	11.50	11.10	11.00	10.55	10.40	9.95	9.80	18.0
22.0	10.00	10.00	9.55	9.50	9.05	9.00	8.45	8.40	20.0
24.0	9.90 /22.2	9.85 /22.2	9.40 /22.2	8.90 /22.2	8.85 /22.2	8.30 /22.2	8.25 /22.2	8.25 /22.2	22.0
									24.0

Unit: ton loads /working radius

Boom Length (m)	27								Boom Length (m)
	Jib Length (m)		10		16		22		
Offset Angle (deg) Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) Radius (m)
6.0	48.35 /6.7	48.00 /6.7	47.70 /6.7	47.05 /6.7	46.95 /6.7	45.95 /6.7	46.10 /6.7	44.65 /6.7	
7.0	46.10	45.75	45.45	44.85	44.70	43.75	43.85	42.50	6.0
8.0	39.75	39.50	39.15	38.60	38.40	37.60	37.60	36.45	7.0
9.0	34.85	34.60	34.25	33.80	33.55	32.85	32.75	31.75	8.0
10.0	30.95	30.70	30.35	29.95	29.65	29.05	28.85	28.00	9.0
12.0	24.10	23.95	23.60	23.30	23.00	22.50	22.35	21.65	10.0
14.0	19.35	19.20	18.85	18.60	18.30	17.90	17.65	17.10	12.0
16.0	15.95	15.85	15.45	15.30	14.90	14.65	14.30	13.90	14.0
18.0	13.40	13.35	12.95	12.80	12.40	12.20	11.80	11.50	16.0
20.0	11.45	11.40	11.00	10.90	10.50	10.30	9.90	9.70	18.0
22.0	9.90	9.85	9.45	9.35	8.95	8.85	8.40	8.25	20.0
24.0	8.65	8.60	8.20	8.15	7.70	7.65	7.15	7.10	22.0
26.0	8.20 /24.8	8.15 /24.8	7.75 /24.8	7.75 /24.8	7.30 /24.8	7.25 /24.8	6.75 /24.8	6.70 /24.8	24.0

- The rated loads are determined according to EN13000 rating with the machine on firm level ground.
- The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 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.
- Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- The offset angles shown are of jib boom offset angle against the main boom, under load.
- The counter weight is 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)
- Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)				
		5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	60	48	-	-	-
50 t	1.17	50	48	36	24	-
35 t	0.90	-	-	35	24	-
12 t	0.51	-	-	-	-	12

## ■ Main Boom with Crane Jib



Unit: ton loads /working radius

Boom Length (m)	30								Boom Length (m)
	10		16		22		28		
Jib Length (m)	10	30	10	30	10	30	10	30	Jib Length (m)
Offset Angle (deg)	10	30	10	30	10	30	10	30	Offset Angle (deg)
Radius (m)									Radius (m)
7.0	43.15 /7.2	42.85 /7.2	42.55 /7.2	41.95 /7.2	41.85 /7.2	40.90 /7.2	41.00 /7.2	39.70 /7.2	7.0
8.0	38.50	38.20	37.90	37.35	37.20	36.40	36.40	35.25	8.0
9.0	33.80	33.55	33.20	32.75	32.55	31.85	31.80	30.80	9.0
10.0	30.05	29.80	29.45	29.05	28.80	28.20	28.05	27.20	10.0
12.0	23.95	23.75	23.45	23.10	22.90	22.35	22.25	21.50	12.0
14.0	19.15	19.00	18.70	18.40	18.15	17.75	17.55	16.95	14.0
16.0	15.75	15.65	15.30	15.10	14.75	14.45	14.20	13.75	16.0
18.0	13.25	13.15	12.80	12.60	12.25	12.00	11.70	11.35	18.0
20.0	11.25	11.20	10.80	10.70	10.30	10.10	9.75	9.50	20.0
22.0	9.70	9.65	9.25	9.15	8.75	8.65	8.25	8.05	22.0
24.0	8.45	8.40	8.00	7.95	7.50	7.40	7.00	6.85	24.0
26.0	7.40	7.35	6.95	6.90	6.50	6.45	6.00	5.90	26.0
28.0	6.75 /27.4	6.75 /27.4	6.35 /27.4	6.30 /27.4	5.90 /27.4	5.85 /27.4	5.40 /27.4	5.35 /27.4	28.0

Unit: ton loads /working radius

Boom Length (m)	33								Boom Length (m)
	10		16		22		28		
Jib Length (m)	10	30	10	30	10	30	10	30	Jib Length (m)
Offset Angle (deg)	10	30	10	30	10	30	10	30	Offset Angle (deg)
Radius (m)									Radius (m)
7.0	38.20 /7.8	37.90 /7.8	37.60 /7.8	37.05 /7.8	36.95 /7.8	36.10 /7.8	36.20 /7.8	35.00 /7.8	7.0
8.0	37.20	36.90	36.60	36.05	35.90	35.10	35.15	34.00	8.0
9.0	32.70	32.45	32.15	31.65	31.50	30.75	30.75	29.75	9.0
10.0	29.10	28.85	28.55	28.10	27.90	27.25	27.20	26.30	10.0
12.0	23.60	23.45	23.10	22.75	22.45	21.95	21.80	21.10	12.0
14.0	19.00	18.85	18.55	18.25	18.00	17.60	17.45	16.85	14.0
16.0	15.60	15.50	15.15	14.95	14.65	14.30	14.05	13.60	16.0
18.0	13.05	12.95	12.60	12.45	12.10	11.85	11.55	11.20	18.0
20.0	11.10	11.00	10.65	10.50	10.15	9.95	9.65	9.30	20.0
22.0	9.50	9.45	9.10	8.95	8.60	8.45	8.10	7.85	22.0
24.0	8.25	8.20	7.80	7.70	7.35	7.20	6.85	6.65	24.0
26.0	7.20	7.15	6.75	6.70	6.30	6.20	5.80	5.65	26.0
28.0	6.30	6.25	5.90	5.85	5.45	5.35	4.95	4.85	28.0
30.0	5.50	5.50	5.10	5.10	4.70	4.60	4.20	4.20	30.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)				
		5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	60	48	-	-	-
50 t	1.17	50	48	36	24	-
35 t	0.90	-	-	35	24	-
12 t	0.51	-	-	-	-	12

■ Main Boom with Crane Jib



Unit: ton loads /working radius

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)
8.0	34.55 /8.3	34.30 /8.3	34.00 /8.3	33.50 /8.3	33.35 /8.3	32.60 /8.3	32.65 /8.3	31.55 /8.3	8.0
9.0	31.70	31.40	31.10	30.65	30.50	29.80	29.80	28.80	9.0
10.0	28.20	28.00	27.65	27.25	27.05	26.40	26.35	25.45	10.0
12.0	22.90	22.75	22.40	22.05	21.80	21.30	21.15	20.45	12.0
14.0	18.80	18.65	18.35	18.05	17.80	17.40	17.25	16.60	14.0
16.0	15.40	15.25	14.95	14.70	14.45	14.10	13.90	13.40	16.0
18.0	12.85	12.70	12.40	12.20	11.90	11.60	11.40	10.95	18.0
20.0	10.85	10.75	10.45	10.25	9.95	9.70	9.45	9.10	20.0
22.0	9.30	9.20	8.85	8.75	8.40	8.20	7.90	7.60	22.0
24.0	8.00	7.90	7.60	7.50	7.15	6.95	6.60	6.40	24.0
26.0	6.95	6.85	6.55	6.45	6.10	5.95	5.60	5.40	26.0
28.0	6.05	6.00	5.65	5.55	5.20	5.10	4.70	4.60	28.0
30.0	5.30	5.25	4.90	4.85	4.45	4.40	4.00	3.90	30.0
32.0	4.65	4.60	4.25	4.20	3.85	3.80	3.35	3.30	32.0
34.0	4.45 /32.6	4.45 /32.6	4.10 /32.6	4.05 /32.6	3.65 /32.6	3.65 /32.6	3.20 /32.6	3.15 /32.6	34.0

Unit: ton loads /working radius

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)
8.0	31.50 /8.8	31.25 /8.8	30.95 /8.8	30.45 /8.8	30.35 /8.8	29.60 /8.8	29.65 /8.8	28.60 /8.8	8.0
9.0	30.75	30.50	30.20	29.75	29.60	28.85	28.90	27.90	9.0
10.0	27.40	27.20	26.90	26.45	26.30	25.65	25.60	24.70	10.0
12.0	22.30	22.15	21.80	21.45	21.25	20.70	20.60	19.85	12.0
14.0	18.60	18.45	18.10	17.80	17.55	17.10	16.90	16.35	14.0
16.0	15.35	15.20	14.95	14.70	14.45	14.05	13.90	13.35	16.0
18.0	12.80	12.70	12.40	12.20	11.90	11.60	11.40	10.95	18.0
20.0	10.80	10.70	10.40	10.25	9.95	9.70	9.45	9.05	20.0
22.0	9.25	9.15	8.85	8.70	8.40	8.15	7.90	7.60	22.0
24.0	7.95	7.85	7.55	7.45	7.10	6.95	6.60	6.35	24.0
26.0	6.90	6.80	6.50	6.40	6.05	5.90	5.55	5.35	26.0
28.0	6.00	5.90	5.60	5.50	5.15	5.05	4.70	4.55	28.0
30.0	5.20	5.15	4.80	4.75	4.40	4.30	3.95	3.80	30.0
32.0	4.55	4.50	4.15	4.10	3.75	3.70	3.30	3.20	32.0
34.0	4.00	3.95	3.60	3.55	3.20	3.15	2.75	2.70	34.0
36.0	3.65 /35.2	3.65 /35.2	3.30 /35.2	3.30 /35.2	2.90 /35.2	2.85 /35.2	2.45 /35.2	2.45 /35.2	36.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)				
		5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	60	48	-	-	-
50 t	1.17	50	48	36	24	-
35 t	0.90	-	-	35	24	-
12 t	0.51	-	-	-	-	12

## ■ Main Boom with Crane Jib



Unit: ton [loads /working radius]

Boom Length (m)	42								Boom Length (m)	
	Jib Length (m)		10		16		22		28	
Offset Angle (deg)	Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg)
9.0	28.45 /9.4	28.20 /9.4	27.90 /9.4	27.45 /9.4	27.30 /9.4	26.65 /9.4	26.65 /9.4	25.70 /9.4	9.0	9.0
10.0	26.60	26.35	26.05	25.65	25.50	24.85	24.85	23.95	10.0	10.0
12.0	21.65	21.45	21.15	20.80	20.60	20.05	19.95	19.25	12.0	12.0
14.0	18.05	17.85	17.55	17.25	17.00	16.55	16.40	15.80	14.0	14.0
16.0	15.15	15.00	14.70	14.45	14.25	13.85	13.65	13.15	16.0	16.0
18.0	12.55	12.45	12.15	11.95	11.70	11.35	11.20	10.75	18.0	18.0
20.0	10.60	10.50	10.20	10.00	9.75	9.45	9.25	8.85	20.0	20.0
22.0	9.00	8.90	8.60	8.45	8.15	7.95	7.65	7.35	22.0	22.0
24.0	7.70	7.65	7.30	7.20	6.90	6.70	6.40	6.15	24.0	24.0
26.0	6.65	6.55	6.25	6.15	5.80	5.65	5.35	5.10	26.0	26.0
28.0	5.75	5.65	5.35	5.25	4.90	4.80	4.45	4.30	28.0	28.0
30.0	4.95	4.90	4.60	4.50	4.15	4.05	3.70	3.55	30.0	30.0
32.0	4.30	4.25	3.90	3.85	3.50	3.40	3.05	2.95	32.0	32.0
34.0	3.70	3.70	3.35	3.30	2.95	2.90	2.50	2.40	34.0	34.0
36.0	3.20	3.20	2.85	2.80	2.45	2.40	2.20 /35.2	2.20 /34.8	36.0	36.0
38.0	2.80 /37.8	2.80 /37.8	2.45 /37.8	2.45 /37.8	2.20 /37.1	2.20 /37.0			38.0	38.0

Unit: ton [loads /working radius]

Boom Length (m)	45								Boom Length (m)	
	Jib Length (m)		10		16		22		28	
Offset Angle (deg)	Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg)
9.0	26.15 /9.9	25.90 /9.9	25.65 /9.9	25.20 /9.9	25.05 /9.9	24.40 /9.9	24.45 /9.9	23.50 /9.9	9.0	9.0
10.0	25.85	25.60	25.35	24.95	24.80	24.15	24.15	23.25	10.0	10.0
12.0	21.10	20.90	20.60	20.25	20.05	19.55	19.45	18.70	12.0	12.0
14.0	17.55	17.40	17.10	16.80	16.55	16.10	15.95	15.35	14.0	14.0
16.0	14.85	14.75	14.40	14.15	13.90	13.50	13.30	12.80	16.0	16.0
18.0	12.45	12.30	12.00	11.80	11.55	11.25	11.05	10.60	18.0	18.0
20.0	10.45	10.30	10.05	9.85	9.60	9.30	9.10	8.70	20.0	20.0
22.0	8.85	8.75	8.45	8.30	8.00	7.80	7.55	7.20	22.0	22.0
24.0	7.55	7.45	7.15	7.05	6.75	6.55	6.25	6.00	24.0	24.0
26.0	6.50	6.40	6.10	6.00	5.65	5.50	5.20	4.95	26.0	26.0
28.0	5.55	5.50	5.20	5.10	4.80	4.65	4.30	4.10	28.0	28.0
30.0	4.80	4.75	4.40	4.35	4.00	3.90	3.55	3.40	30.0	30.0
32.0	4.15	4.10	3.75	3.70	3.35	3.25	2.90	2.80	32.0	32.0
34.0	3.55	3.50	3.20	3.15	2.80	2.70	2.35	2.25	34.0	34.0
36.0	3.05	3.00	2.70	2.65	2.30	2.25	2.20 /34.6	2.20 /34.2	36.0	36.0
38.0	2.60	2.55	2.25	2.20	2.20 /36.4	2.20 /36.2			38.0	38.0
40.0	2.20	2.20	2.20 /38.2						40.0	40.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)				
		5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	60	48	-	-	-
50 t	1.17	50	48	36	24	-
35 t	0.90	-	-	35	24	-
12 t	0.51	-	-	-	-	12

## ■ Main Boom with Crane Jib



Unit: ton loads /working radius

Boom Length (m)	48								Boom Length (m)
	Jib Length (m)		10		16		22		
Offset Angle (deg) Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) Radius (m)
10.0	23.90 /10.5	23.65 /10.5	23.40 /10.5	23.00 /10.5	22.85 /10.5	22.25 /10.5	22.20 /10.5	21.35 /10.5	10.0
12.0	20.55	20.35	20.10	19.75	19.55	19.00	18.95	18.20	12.0
14.0	17.15	16.95	16.65	16.35	16.15	15.70	15.55	14.95	14.0
16.0	14.50	14.35	14.05	13.80	13.55	13.15	12.95	12.45	16.0
18.0	12.30	12.15	11.90	11.65	11.45	11.10	10.90	10.45	18.0
20.0	10.30	10.20	9.90	9.70	9.45	9.15	9.00	8.55	20.0
22.0	8.70	8.60	8.30	8.15	7.90	7.65	7.40	7.05	22.0
24.0	7.40	7.30	7.05	6.90	6.60	6.40	6.15	5.85	24.0
26.0	6.35	6.25	5.95	5.85	5.55	5.35	5.10	4.85	26.0
28.0	5.45	5.35	5.05	4.95	4.65	4.50	4.20	4.00	28.0
30.0	4.65	4.60	4.30	4.20	3.90	3.75	3.45	3.25	30.0
32.0	4.00	3.95	3.60	3.55	3.20	3.10	2.80	2.65	32.0
34.0	3.40	3.35	3.05	2.95	2.65	2.55	2.20	2.20 /33.6	34.0
36.0	2.90	2.85	2.55	2.50	2.20 /35.8	2.20 /35.4			36.0
38.0	2.45	2.40	2.20 /37.5	2.20 /37.3					38.0
40.0	2.20 /39.2	2.20 /39.0							40.0

Unit: ton loads /working radius

Boom Length (m)	51								Boom Length (m)
	Jib Length (m)		10		16		22		
Offset Angle (deg) Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) Radius (m)
10.0	20.45 /11.1	20.35 /11.1	19.85 /11.1	19.70 /11.1	19.20 /11.1	18.95 /11.1	18.45 /11.1	18.10 /11.1	10.0
12.0	19.85	19.65	19.40	19.05	18.75	18.35	18.00	17.55	12.0
14.0	16.55	16.35	16.05	15.75	15.55	15.10	15.00	14.35	14.0
16.0	13.95	13.80	13.50	13.25	13.00	12.60	12.45	11.90	16.0
18.0	11.90	11.80	11.45	11.25	10.95	10.65	10.45	9.95	18.0
20.0	10.20	10.05	9.80	9.60	9.30	9.00	8.80	8.40	20.0
22.0	8.60	8.45	8.20	8.00	7.75	7.50	7.30	6.95	22.0
24.0	7.25	7.20	6.90	6.75	6.50	6.25	6.00	5.70	24.0
26.0	6.20	6.10	5.80	5.70	5.40	5.20	4.95	4.70	26.0
28.0	5.25	5.20	4.90	4.80	4.50	4.35	4.05	3.80	28.0
30.0	4.50	4.40	4.10	4.00	3.70	3.55	3.30	3.10	30.0
32.0	3.80	3.75	3.45	3.35	3.05	2.95	2.65	2.45	32.0
34.0	3.20	3.15	2.85	2.80	2.50	2.35	2.20 /33.5	2.20 /32.9	34.0
36.0	2.70	2.65	2.35	2.30	2.20 /35.0	2.20 /34.6			36.0
38.0	2.25	2.20	2.20 /36.6	2.20 /36.4					38.0
40.0	2.20 /38.2								40.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

7. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)				
		5 falls	4 falls	3 falls	2 falls	1 fall
100 t	1.20	60	48	-	-	-
50 t	1.17	50	48	36	24	-
35 t	0.90	-	-	35	24	-
12 t	0.51	-	-	-	-	12

## ■ Main Boom (Using Third Winch)



Unit: ton | loads /working radius

Working Radius(m)	Boom Length (m)										Working Radius(m)
	12	15	18	21	24	27	30	33	36	39	
3.8	90.00										3.8
4.0	90.00										4.0
4.5	84.40	84.40									4.5
5.0	75.95	75.95	75.95								5.0
5.5	69.05	69.05	68.80	65.70 /5.6							5.5
6.0	63.30	63.30	62.85	60.75	57.25 /6.1	49.85 /6.7					6.0
7.0	54.10	54.10	53.00	51.15	49.30	47.60	44.65 /7.2	39.65 /7.8			7.0
8.0	44.90	44.90	44.75	44.05	42.60	41.25	39.95	38.65	36.00 /8.3	32.95 /8.8	8.0
9.0	38.10	38.05	37.90	37.85	37.45	36.35	35.30	34.15	33.15	32.20	9.0
10.0	33.00	32.90	32.75	32.70	32.60	32.40	31.55	30.55	29.70	28.90	10.0
12.0	26.50 /11.8	25.80	25.60	25.55	25.40	25.35	25.15	25.00	24.40	23.80	12.0
14.0		21.10	20.90	20.80	20.65	20.60	20.40	20.25	20.00	20.00	14.0
16.0		20.30 /14.4	17.50	17.45	17.25	17.20	17.00	16.85	16.60	16.55	16.0
18.0			16.20 /17.0	14.90	14.75	14.65	14.45	14.30	14.05	14.00	18.0
20.0				13.35 /19.6	12.80	12.70	12.50	12.30	12.05	12.05	20.0
22.0					11.25	11.10	10.90	10.70	10.50	10.45	22.0
24.0					11.10 /22.2	9.85	9.65	9.45	9.20	9.15	24.0
26.0						9.40 /24.8	8.60	8.35	8.10	8.10	26.0
28.0							7.95 /27.4	7.45	7.20	7.15	28.0
30.0								6.70	6.45	6.40	30.0
32.0									5.80	5.75	32.0
34.0									5.60 /32.6	5.15	34.0
36.0										4.85 /35.2	36.0

Unit: ton | loads /working radius

Working Radius(m)	Boom Length (m)							Working Radius(m)
	42	45	48	51	54	57	60	
9.0	29.90 /9.4	27.60 /9.9						9.0
10.0	28.05	27.35	25.35 /10.5	23.10 /11.1	19.85 /11.6			10.0
12.0	23.15	22.55	22.05	21.35	19.65	18.55 /12.2	14.90 /12.7	12.0
14.0	19.50	19.05	18.65	18.05	17.60	17.15	14.40	14.0
16.0	16.35	16.20	16.00	15.45	15.10	14.70	13.70	16.0
18.0	13.80	13.65	13.50	13.40	13.05	12.75	12.35	18.0
20.0	11.80	11.65	11.50	11.40	11.25	11.15	10.75	20.0
22.0	10.20	10.05	9.95	9.80	9.65	9.55	9.30	22.0
24.0	8.90	8.75	8.65	8.50	8.35	8.20	8.00	24.0
26.0	7.85	7.70	7.55	7.40	7.25	7.15	6.90	26.0
28.0	6.95	6.80	6.65	6.50	6.35	6.20	6.00	28.0
30.0	6.15	6.00	5.85	5.70	5.55	5.40	5.20	30.0
32.0	5.50	5.35	5.20	5.05	4.90	4.75	4.50	32.0
34.0	4.90	4.75	4.60	4.45	4.30	4.15	3.90	34.0
36.0	4.40	4.25	4.10	3.90	3.75	3.60	3.40	36.0
38.0	4.00 /37.8	3.75	3.65	3.45	3.30	3.15	2.90	38.0
40.0		3.35	3.20	3.05	2.90	2.75	2.50	40.0
42.0		3.30 /40.4	2.85	2.65	2.50	2.35	2.15	42.0
44.0			2.70 /43.0	2.35	2.20	2.05	1.80	44.0
46.0				2.15 /45.3	1.90	1.75	1.70 /44.8	46.0
48.0					1.70 /47.4	1.70 /46.3		48.0

1. The rated loads are determined according to EN13000 rating with the machine 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 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)

6. Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)						
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls
100 t	1.20	100	84	72	60	48	-	-
50 t	1.17	-	-	-	50	48	36	24
35 t	0.90	-	-	-	-	-	35	24

■ Main Boom with Aux. Sheave (Using Third Winch)



Unit: ton loads /working radius

Working Radius(m)	Boom Length (m)										Working Radius(m)
	12	15	18	21	24	27	30	33	36	39	
3.8	90.00										3.8
4.0	90.00										4.0
4.5	84.40	84.40									4.5
5.0	75.95	75.95	75.95								5.0
5.5	69.05	69.05	68.80	65.10 /5.6							5.5
6.0	63.30	63.30	62.80	60.20	56.65 /6.1	49.25 /6.7					6.0
7.0	54.10	54.10	52.45	50.55	48.70	47.00	44.05 /7.2	39.05 /7.8			7.0
8.0	44.50	44.45	44.30	43.50	42.00	40.70	39.40	38.05	35.40 /8.3	32.35 /8.8	8.0
9.0	37.70	37.65	37.45	37.40	36.85	35.75	34.70	33.55	32.55	31.60	9.0
10.0	32.60	32.55	32.35	32.30	32.15	31.85	30.95	29.95	29.05	28.25	10.0
12.0	26.10 /11.8	25.40	25.20	25.15	25.00	24.90	24.70	24.50	23.80	23.15	12.0
14.0		20.70	20.50	20.40	20.25	20.15	19.95	19.80	19.55	19.45	14.0
16.0		19.95 /14.4	17.15	17.05	16.85	16.75	16.55	16.40	16.15	16.10	16.0
18.0			15.80 /17.0	14.55	14.35	14.25	14.05	13.85	13.60	13.55	18.0
20.0				12.95 /19.6	12.40	12.25	12.05	11.85	11.60	11.55	20.0
22.0					10.85	10.70	10.50	10.30	10.05	10.00	22.0
24.0					10.70 /22.2	9.45	9.25	9.00	8.75	8.70	24.0
26.0						9.00 /24.8	8.20	7.95	7.70	7.65	26.0
28.0							7.55 /27.4	7.05	6.80	6.75	28.0
30.0								6.30	6.05	5.95	30.0
32.0									5.40	5.30	32.0
34.0									5.20 /32.6	4.75	34.0
36.0										4.45 /35.2	36.0

Unit: ton loads /working radius

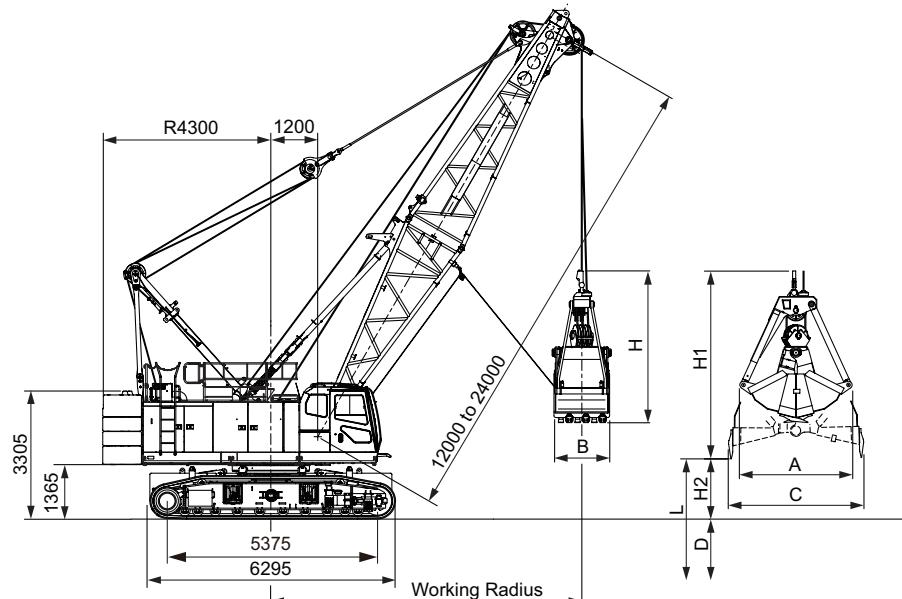
Working Radius(m)	Boom Length (m)						Working Radius(m)
	42	45	48	51	54	57	
9.0	29.25 /9.4	26.95 /9.9					9.0
10.0	27.40	26.70	24.70 /10.5	22.10 /11.1	18.85 /11.6		10.0
12.0	22.50	21.90	21.40	20.70	18.65	17.50 /12.2	12.0
14.0	18.90	18.40	17.95	17.35	16.90	16.45	14.0
16.0	15.85	15.70	15.35	14.80	14.40	14.00	16.0
18.0	13.30	13.15	13.00	12.75	12.40	12.05	18.0
20.0	11.35	11.15	11.00	10.90	10.75	10.45	20.0
22.0	9.75	9.60	9.45	9.30	9.15	9.00	22.0
24.0	8.45	8.30	8.15	8.00	7.85	7.70	24.0
26.0	7.40	7.20	7.05	6.90	6.75	6.60	26.0
28.0	6.50	6.30	6.15	6.00	5.85	5.70	28.0
30.0	5.70	5.55	5.40	5.20	5.05	4.90	30.0
32.0	5.05	4.85	4.70	4.55	4.40	4.20	32.0
34.0	4.45	4.30	4.15	3.95	3.80	3.65	34.0
36.0	3.95	3.80	3.60	3.45	3.25	3.10	36.0
38.0	3.55 /37.8	3.35	3.15	3.00	2.80	2.65	38.0
40.0		2.95	2.80	2.55	2.40	2.25	40.0
42.0		2.85 /40.4	2.45	2.20	2.20 /41.2	2.20 /40.3	42.0
44.0			2.25 /43.0	2.20 /42.2			44.0

- The rated loads are determined according to EN13000 rating with the machine on firm level ground.
- The figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- 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.
- Working radius is the horizontal distance from the slewing center to the center of gravity of a lifted load.
- The counter weight is 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)
- Correlation between the number of reeved lines, maximum rated loads, hook weights are shown in the table below.

Hook Capacity	Hook Weight (t)	Maximum Rated Loads (t)						
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls
100 t	1.20	100	84	72	60	48	-	-
50 t	1.17	-	-	-	50	48	36	24
35 t	0.90	-	-	-	-	-	35	24

# Clamshell Specifications

## Dimensions and Specifications



## Working Ranges

Boom Length	m	12				15				18				21				24			
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	11.6	10.4	8.8	7.1	14.0	12.5	10.5	8.4	16.5	14.6	12.3	9.6	19.0	16.7	14.0	10.9	21.4	18.8	15.7	12.2
Gross Rated Load	t	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
Lift L (D + H2)	m	37.2	38.8	40.2	41.4	38.8	40.9	42.6	44.0	40.4	42.9	45.0	46.7	42.0	44.9	47.4	49.3	43.6	47.0	49.8	52.0
Max. Digging Depth D	m	36																			
Bucket Dumping Height H2	m	1.2	2.8	4.2	5.4	2.8	4.9	6.6	8.0	4.4	6.9	9.0	10.7	6.0	8.9	11.4	13.3	7.6	11.0	13.8	16.0

## Specifications

		Clamshell Specifications	
Bucket Capacity		m³	
Allowed Maximum Gross Weight for Clamshell Bucket and Captured Load Combined		t	
Boom Length		m	
Maximum Digging Depth		m	
Support Wire Rope Speed *		m/min	
Opening/Closing Wire Rope Speed *		m/min	
Boom Hoist Drum Wire Rope Speed (Raise) *		m/min	
Boom Hoist Drum Wire Rope Speed (Lower) *		m/min	
Ground Contact Pressure		kPa (kgf/cm²)	
Overall Operating Weight		t	

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 (m³)	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

Working Radius (m)	Boom Length (m)				
	12	15	18	21	24
7.1	10.0/7.1				
8.0	10.0	10.0/8.4			
9.0	10.0	10.0	10.0/9.6		
10.0	10.0	10.0	10.0	10.0/10.9	
12.0	10.0/11.6	10.0	10.0	10.0	10.0/12.2
14.0		10.0	10.0	10.0	10.0
16.0			10.0	10.0	10.0
18.0				10.0/16.5	10.0
20.0					10.0/19.0
21.4					9.30/21.4

1. Max. clamshell rating is 10.0 t.
2. Mass of bucket plus load should not exceed clamshell ratings shown above. Following data are for a general digging application buckets.
3. In case of clamshell application, a 12 m boom is recommended as minimum length of boom, and max. boom length shall not exceed 24 m.
4. Apparent specific gravity of lifting material :
  - Earth ..... 1.7 to 1.8 t/m³
  - Gravel ..... 1.8 to 2.0 t/m³
5. Upper weights should be used in an assembly configuration (31.7 t) excluding right and left top weights.
6. Max. digging depth below ground shall be 36 m.

# Weights and Dimensions of Disassembled Units

## Weights and Dimensions List

Comply with the regulations when transporting.

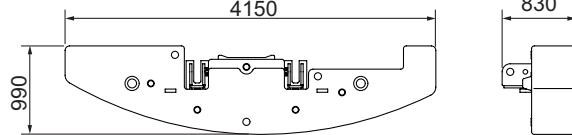
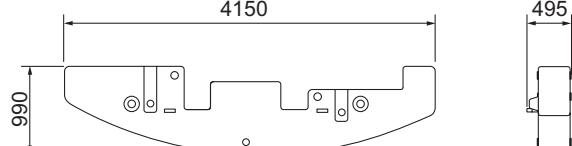
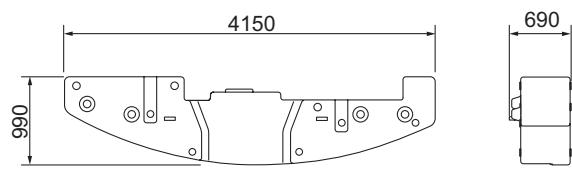
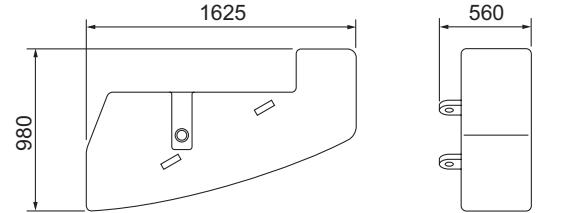
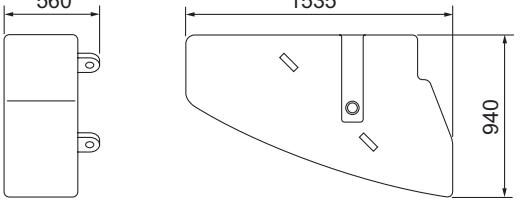
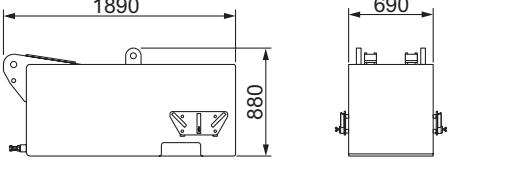
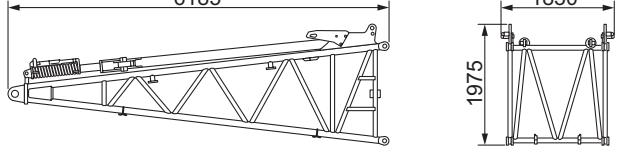
"Weight" refers to the mass of each single unit.

### Weights and Dimensions of Disassembled Units

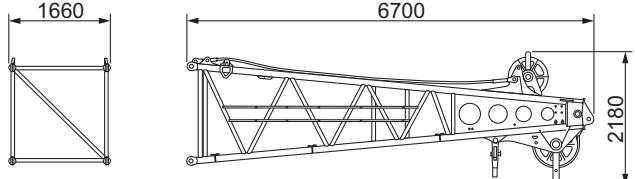
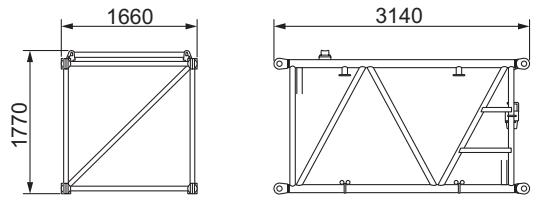
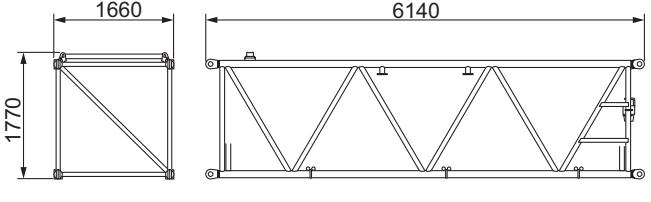
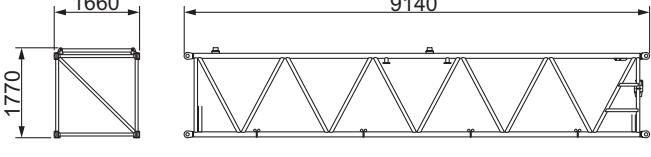
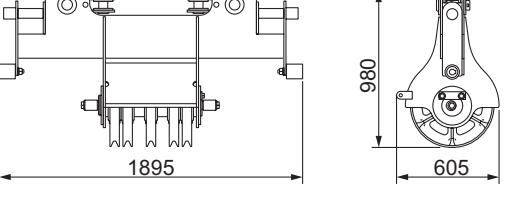
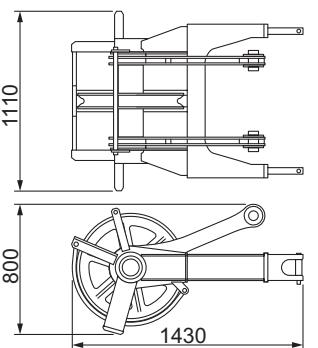
Description	Qty	Dimensions (mm)	Weight (kg)
Base Crane with: Boom Base Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Crawlers Jack Without: Floats	1		50800
Base Crane with: Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Crawlers Jack Without: Floats	1		48600
Base Crane with: Boom Base Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Jack Without: Floats	1		31700
Base Crane with: Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Jack Without: Floats	1		29500
Crawler	2		9600

- With upper house handrails, the weight of the main unit increases by 95 kg.
- With catwalks, the weight of the main unit increases by 245 kg and the width of the main unit increases by 210 mm.

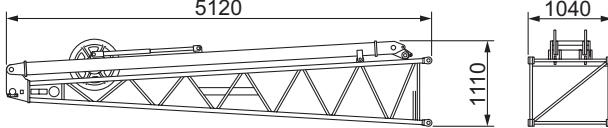
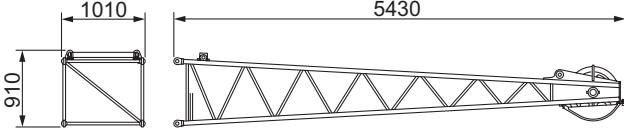
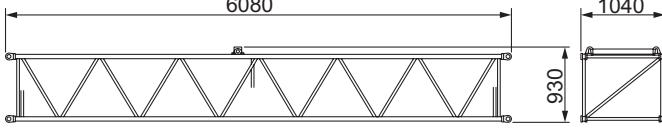
## Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
Counter Weight (Base)	1		9420
Counter Weight	2		6640
Counter Weight	1		8980
Counter Weight	1		2810
Counter Weight	1		3000
Lower Weight	2		6040
Boom Base	1		1720

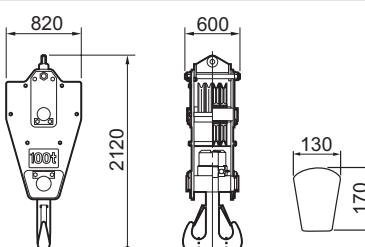
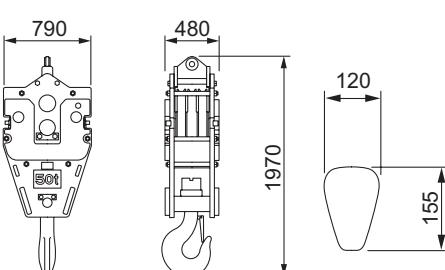
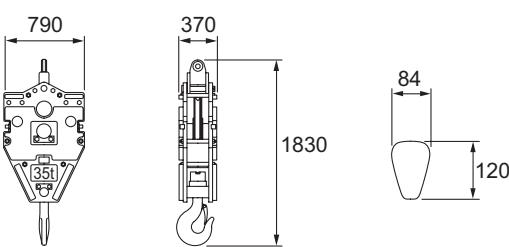
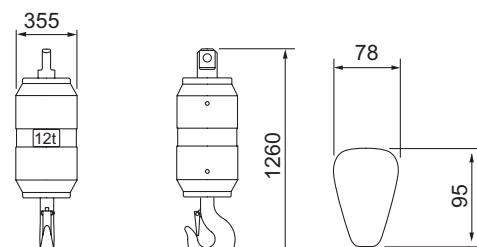
## Weights and Dimensions of Disassembled Units

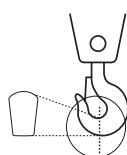
Description	Qty	Dimensions (mm)	Weight (kg)
Boom Top	1		1650
3 m Boom Insert	1		430
6 m Boom Insert	1		690
9 m Boom Insert	1		1000
Upper Spreader	1		490
Aux. Sheave	1		340

## Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
Jib Base (with Jib Strut)	1		580
Jib Top	1		290
6 m Jib Insert	1		190

## Weights and Dimensions of Disassembled Units

Description	Qty	Dimensions (mm)	Weight (kg)
100 t Hook	1		1200
50 t Hook	1		1170
35 t Hook	1		900
12 t Hook	1		510



Hook cross section

The hook cross section is indicated with the dimensions corresponding to those at the cross section located at the broken line shown in each hook illustration.

# Equipment List

## Standard and Optional Equipment

○ : Standard   ● : Optional   — : No setting

	Item	Crane	Clamshell
Lower Structure	810 mm Shoe	○	○
	Jack Up Unit	○	○
	Crawler Extension / Retraction System	○	○
	Steps	○	○
	Shoe Tension Unit (Hydraulic)	●	●
	Low Wear Shoe (Contiguous Surface of Roller)	●	●
Upper Structure	Cab Up / Down Catwalk	○	○
	Under Cover (Bed Lower Surface)	○	○
	Working Light (x 2)	○	○
	Back Mirror (Left / Right)	○	○
	Central Lubrication Unit (for Turntable Bearing)	○	○
	Drum Flange Cover	○	○
	Auto Idle Stop	○	○
	Eco Winch	○	○
	Drum Mirror	●	●
	Drum Light (Front Winch)	●	●
	Winch Rope Retainer (Front Winch)	●	●
	Winch Rope Retainer (Rear Winch)	●	●
	Winch Rope Retainer (Third Winch)	●	●
	Catwalk (Folding Type, Left / Right)	○	○
	Catwalk with Handrails (Folding Type, Left / Right)	● / ○ <sup>**1</sup>	● / ○ <sup>**1</sup>
	Electric Fuel Pump	●	●
	Handrails (Folding Type)	○	○
	Winch with Front and Rear Free Mechanism	●	●
Cab	Third Winch (Rope not Included)	●	-
	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 (x 2)	○	○
	Floor Carpet	○	○
	Level Gauge (in Cab & Lower Frame)	○	○
	Accelerator Pedal (Right Side)	●	●
	Arm Chair Lever	○	○
	Cross Operation Lever (Lever Lock not Attached)	● / ○ <sup>**1</sup>	● / ○ <sup>**1</sup>
	Front Operation Lever (with Lever Lock)	●	●
	Standard Seat	○	○
	Seat with Suspension	● / ○ <sup>**1</sup>	● / ○ <sup>**1</sup>
	Travel Operation Pedal (Cannot be installed when winch with free mechanism attached)	●	●
	Boom Hoist Operation Pedal <sup>**2</sup>	●	●
	Swing Brake Operation Pedal <sup>**2</sup>	●	●
	Fan	●	●
	Front / Rear Operation Lever, Brake Pedal Permutation	●	●
	Fuel Burning Heater	●	●
	Accelerator Grip	○	○
	Drum Rotation Sensor (Front / Rear / Boom Hoist) <sup>**3</sup>	○	○
	Speed Control Dial (Front / Rear/Boom Hoist / Swing)	○	○
	Life Hammer	○	○

\*1 Europe specification machines only.

\*2 Cannot be installed at the same time.

\*3 Cannot be equipped when the cross operation lever or front operation lever is installed.

○ : Standard   ● : Optional   — : No setting

Item		Crane	Clamshell
Attachment	12 m Basic Boom (Boom Base: 6 m, Top: 6 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	●	-
	Parts Set for Auxiliary Sheave [Auxiliary Sheave, Auxiliary Sheave Anti-two Block]	●	-
	100 t Hook (4 Sheaves)	●	-
	50 t Hook (3 Sheaves)	●	-
	35 t Hook (1 Sheave)	●	-
	12 t Hook	●	-
	P · S (19) + 39XP · 7	○	-
	IWRC 6 X WS (31)	-	○ *4
Wire Rope	Mono Rope EP 3XF (40)	●	-
	P · S (19) + 39XP · 7	●	-
	IWRC 6 X WS (31)	-	○ *5
	IWRC 6 X P · WS (31)	●	-
	Mono Rope EP 3XF (40)	●	-
Safety Device	P · S (19) + 39XP · 7	●	-
	Boom Hoist Winch (φ 22.4)	○	○
	Moment Limiter	○	○
	3 Color Percentage Indicator Light	● / ○ *6	● / ○ *6
	Gate Lock Lever	○	○
	Individual Operation Lever Lock (Front, Rear, Hoist, Travel) *7	○	○
	Automatic Drum Lock (Boom Hoist)	○	○
	Winch Drum Lock (Front/Rear)	○	○
	Lowering Limiter (Winch Drum Dead Turns Detective Device)	● / ○ *6	● / ○ *6
	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 (Fixed lights)	●	-
	Drum and Rear View Monitor System (3 Cameras)	●	●
	Cab Roof Window Guard	●	●

\*4 Used for opening/closing rope. 82 m length rope required for 12 m digging depth with 21 m boom length.

\*5 Used for supporting rope. 70 m length rope required for 12 m digging depth with 21 m boom length.

\*6 Europe specification machines only.

\*7 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 Back Stop	○	○
	Boom Angle Sensor	○	○
	Boom Lifting Piece	○	○
	Remote Sensing (Mobile Communication Terminal, Data Logging Device)	○	○
	Assembly Pad *8	●	-
	Reduction Counter Weight Specification	● *9	-
	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)	● *10	●
	Opening / Closing / Support Rope Stopper	-	○
	Hyd. Tagline (6 × Fi (29) φ 10 mm × 55 m)	● *11	○
	Reeving Winch (4 × F (30) φ 8 mm × 250 m)	● *11	-
	Reeving Winch cum Hydraulic Tagline (for Hydraulic Tagline (6 × Fi (29) φ 10 mm × 55 m))	● *11	-
	Tagline (for Reeving (6 × Fi (29) φ 10 mm × 220 m))		
	Sling Ropes for Disassembly and Assembly (for Counter Weights, Crawlers)	●	●
	Air Cleaner Single Element	○	○
	Air Cleaner Double Element	●	●
	Additional Fuel Filter (Triple Filter)	●	●
	Additional Spare Parts (Hydraulic Oil Filter)	●	●
	Additional Tools (Large Hammer, Crowbar, Chisel)	●	●
Other	Standard Supplied Tools	○	○
	Standard Spare Parts	○	○

\*8 The assembly pad is required for the following attachments.

- Crane Boom Length 51 m + Crane Jib 28 m

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

\*10 When it chooses, the width at the time of transportation is set to not less than 3 m.

\*11 (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

(Line pull: For hydraulic tagline (maximum line pull: 1.5 kN (150 kg)) /for reeving winch (maximum line pull: 2.9 kN (300 kg))







- 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.

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