SCX1000A-3
Stage IV / Tier 4f

SCX 1000A-3

HYDRAULIC CRAWLER CRANE

Specifications & Lifting Capacities

Hoist Rope 28mm

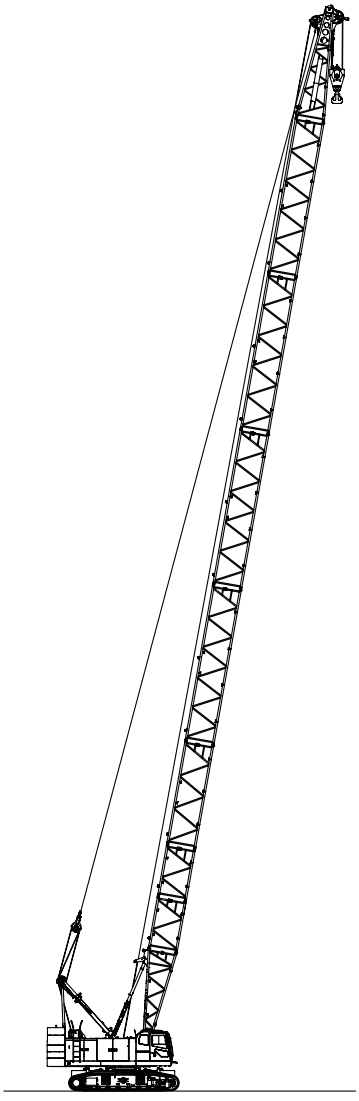
HITACHI SUMITOMO

1504 Ⓑ 05H.EA253

Variation of The Attachment

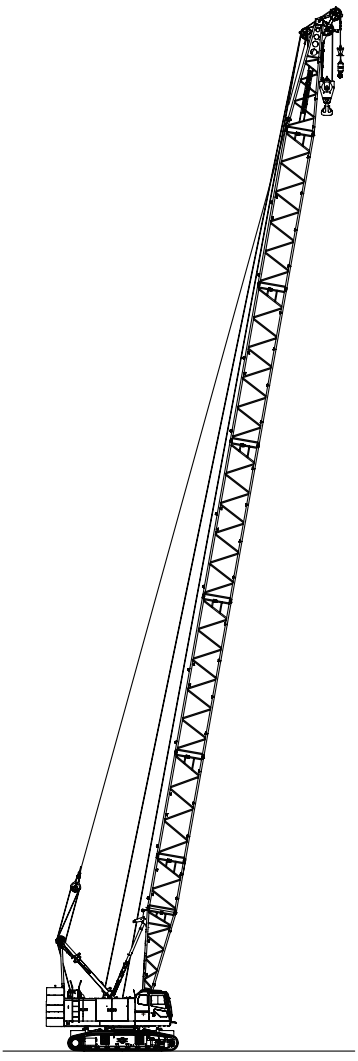
Line Speed *	Front / Rear Winch (Rated with 13.5 t load)	m/min	110 (45)
	Third Winch (Rated with 13.5 t load)		95 (30)
Swing Speed		min^{-1} (rpm)	2.4
Travel Speed High / Low *		km/h	2.0 / 1.1
Gradeability		% (Degree)	30 (17)
Engine Model			CUMMINS QSB6.7 (Stage IV / Tier 4f)
Engine Rated Output Power		kW/min^{-1} (ps/rpm)	201 / 2000 (273 / 2000)

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



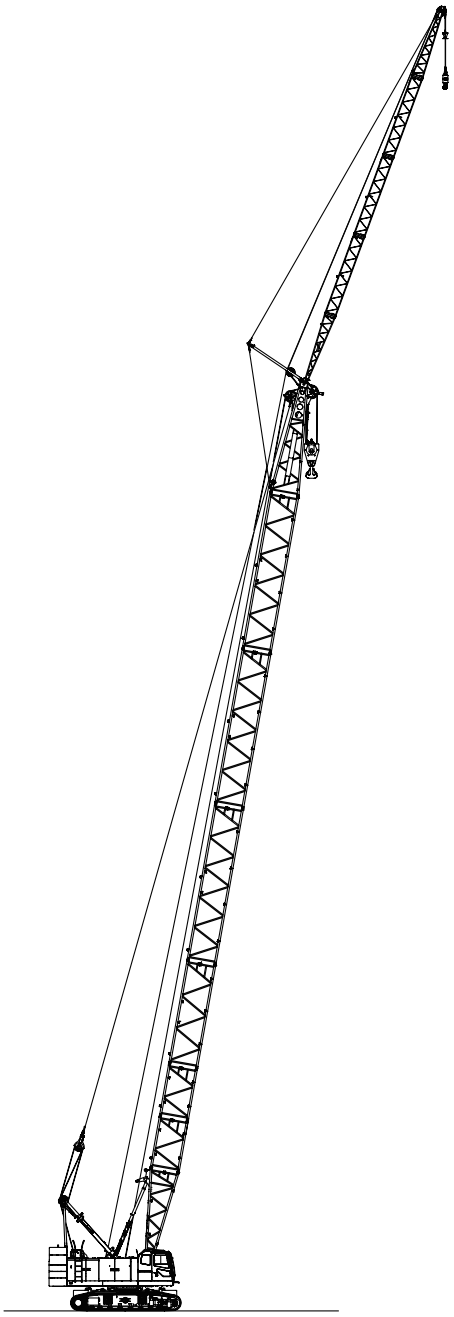
Crane Specification (Boom Longest Length)

Boom Length	m	12 to 60
Ground Contact Pressure	kPa (kgf/cm²)	125 (1.27) (Boom longest length with 35 t hook)
Overall Operating Weight	t	Approximately 111 (Boom longest length with 35 t hook)



Crane Specification (Boom Longest Length with Aux. Sheave)

Boom Length	m	12 to 57
Ground Contact Pressure	kPa (kgf/cm²)	125 (1.28) (Boom longest length + 35 t aux. sheave + 13.5 t hook attached)
Overall Operating Weight	t	Approximately 111 (Boom longest length + 35 t aux. sheave + 13.5 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/cm²)	125 (1.28) (Boom + crane jib longest length 35 t + 13.5 t hook attached)
Overall Operating Weight	t	Approximately 111 (Boom + crane jib longest length 35 t + 13.5 t hook attached)

VARIATION

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Specifications

Engine

Model	CUMMINS QSB6.7
Type	4-cycle, Water-cooled, Direct injection, Turbo-charged, Diesel engine
Displacement	6.7 liters
Rated Output	201 kW / 2,000 min^{-1} (273 ps / 2,000 rpm)
Fuel Tank Capacity	450 liters
Notes	Engine meets Stage IV / Tier 4f of engine exhaust gas emission regulations in USA, Europe, and Japan. 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. Arm-chair lever type is standard. Cross operation lever type and front lever type are available as option.
Display Panel Design	8 inches size. 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, Sideframe retract and Gantry cyl.
	P4	41liters / min	Pilot control, Brake cooling, Reeving tagline, etc.
	P5	41liters / min	
	P6	41liters / min	
	P7	32liters / min	

Winch

Front and Rear Winch				
Winch		Front	Rear	
Rope Diameter		28 mm	28 mm	
Rope Length	Standard	205 m	125 m	for Aux. sheave
	Winding Capacity	290 m	290 m	
Line Pull	Rated	132 kN	132 kN	
Standard Equipment		High-speed winching is possible by ECO winch mode with low engine speed under light loads.		
		Free fall winch with brake controled by pedal operation.		
Boom Hoist Winch				
Rope Diameter		22.4 mm		
Rope Length	Incorporated	160 m		
Hydraulic motor with multi-disc brakes.				

Third Winch		
Rope Diameter		26 mm
Rope Length	Standard	205 m
	Winding Capacity	220 m
Line Pull	Rated	117 kN
Optional Equipment		Free fall winch with brake controled 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.

Counterweight

Upper Weight	Total Weight	37.5 ton
	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

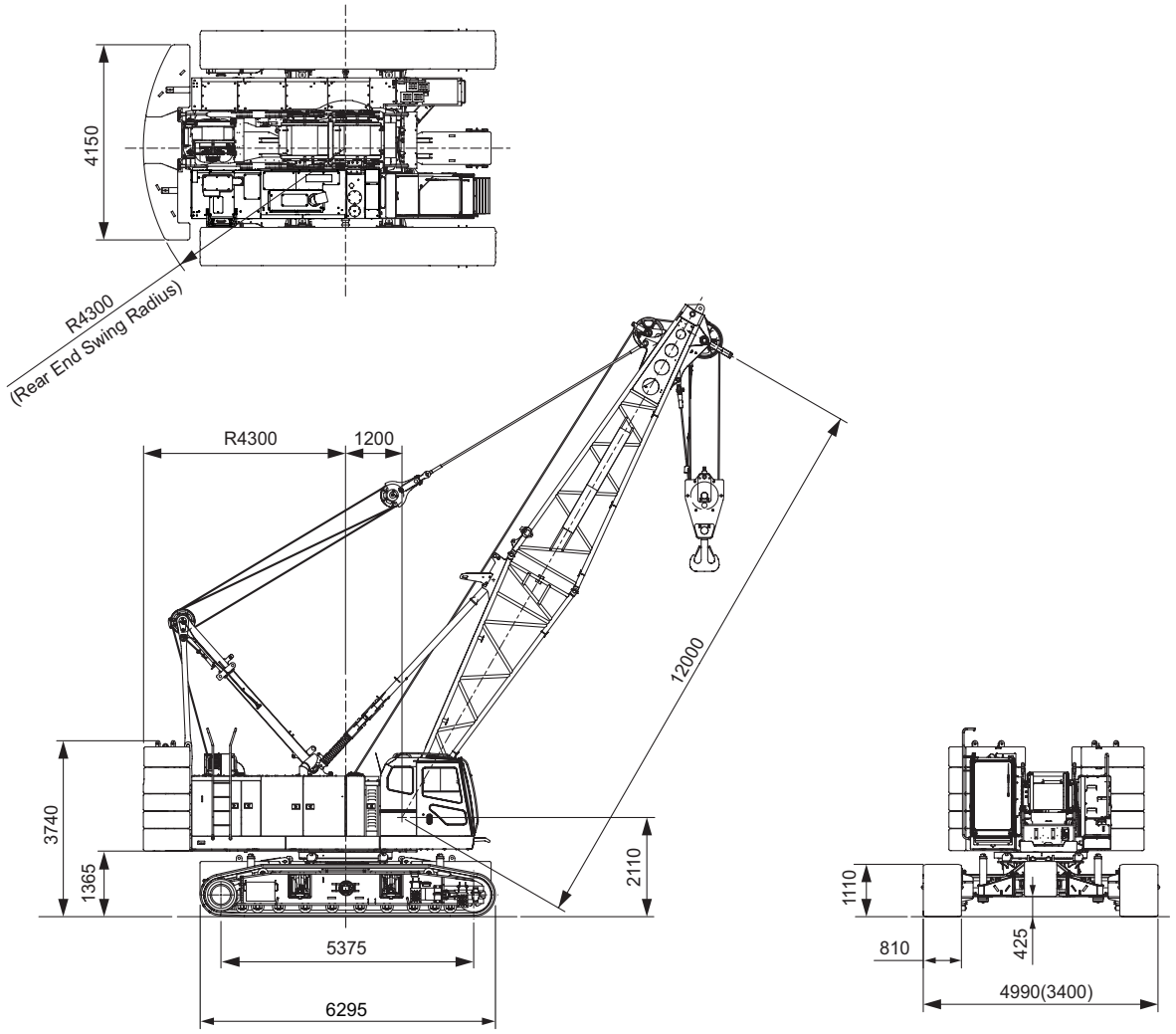
Welded steel construction with jack and crawler sideframe extend-retract cylinders.

Crawler Sideframe

Frame	Welded steel box construction, and can be retracted.	
Crawer Shoe	Cast iron 810 mm width shoes 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 peace each side.	
	Hydraulic travel device (Hydrayulic motor and reducer)	
	Travel speed (Gradability : 30%)	High : 2.0 km/h
		Low : 1.1 km/h

Crane Specifications

Dimensions and Specifications



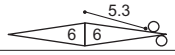
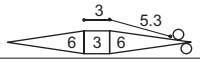
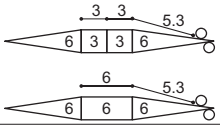
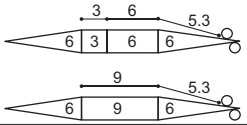
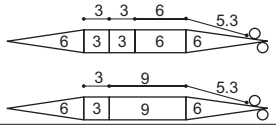
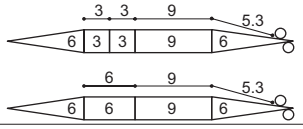
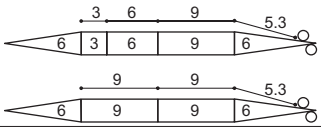
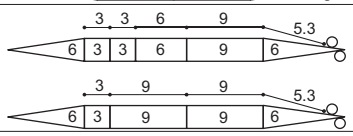
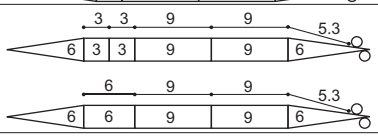
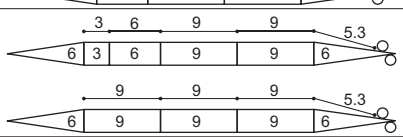
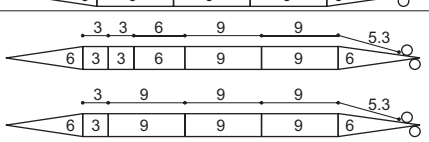
Crane Specifications		
Max. Lifting Load × Working Radius	t × m	100×3.8
Basic Boom Length	m	12
Max. Boom Length	m	60
Max. Crane Jib Length	m	10 to 28
Max. Boom + Jib Length	m	51 + 28
Ground Contact Pressure	kPa (kgf/cm²)	118 (1.21) (w / Basic Boom, 100 t Hook)
Overall Operating Weight	t	Approximately 105 (w / Basic Boom, 100 t Hook)

Hook Weight	
100 t	1,200 kg
80 t	1,350 kg
50 t	1,170 kg
35 t	900 kg
13.5 t	620 kg

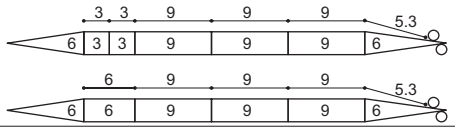
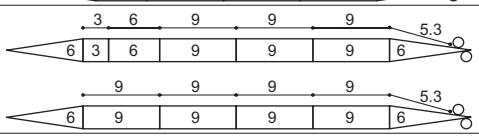
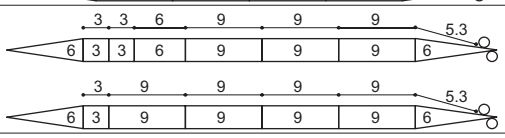
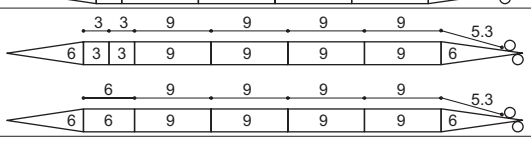
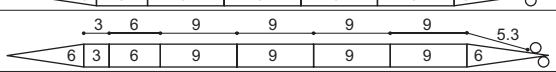
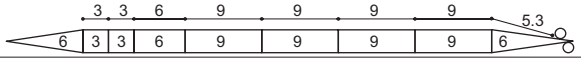
NOTE : Data is expressed in SI units followed by conventional units in ( ).

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)

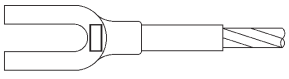
Check the pendant rope with referring to the imprints on the rope end.

Dimensions Not Shown In The Figure

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

Pendant Rope

Length (m)	Rope Diameter (mm)	Imprint
3	35.5	□ • △ • 35.5 • 3 • C
5.3	35.5	□ • △ • 35.5 • 5.3 • C
6	35.5	□ • △ • 35.5 • 6 • C
9	35.5	□ • △ • 35.5 • 9 • C



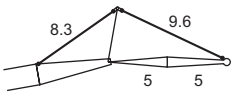
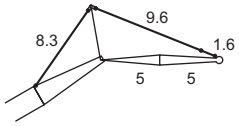
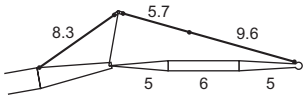
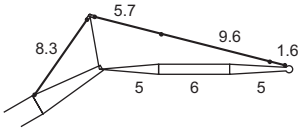
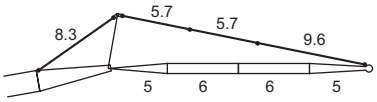
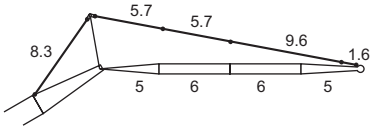
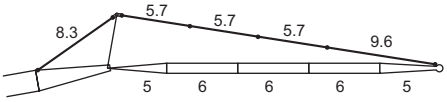
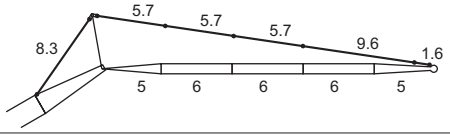
Combination of Boom and Crane Jib (Offset Angle 10° and 30°)

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

Jib Length (m) \ Boom Length (m)	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
10	×	×	×	×	○	○	○	○	○	○	○	○	○	○	×	×	×
16	×	×	×	×	○	○	○	○	○	○	○	○	○	○	×	×	×
22	×	×	×	×	○	○	○	○	○	○	○	○	○	○	×	×	×
28	×	×	×	×	○	○	○	○	○	○	○	○	○	○	×	×	×

(○ : Attachable × : Not Attachable)

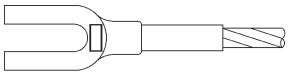
Crane Jib (Offset Angle 10° and 30°)

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.

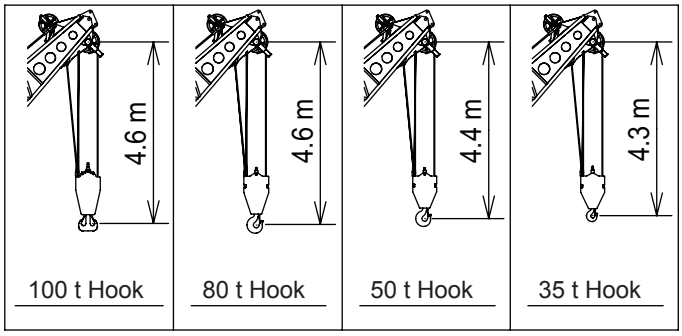
Dimensions Not Shown In The Figure	
Symbols	Jib Length (m)
5	5
6	6

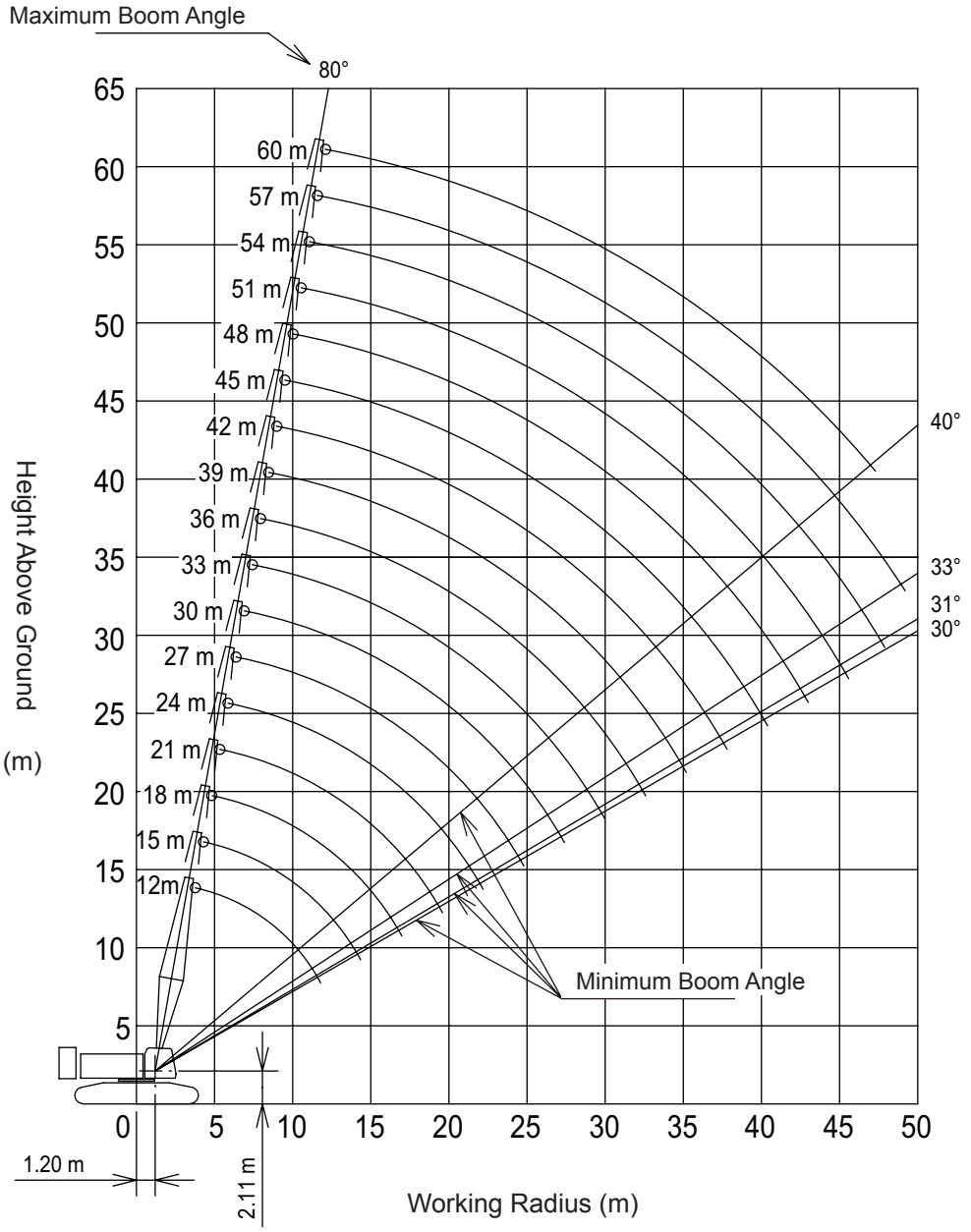
Jib Pendant Rope		
Length (m)	Rope Diameter (mm)	Imprint
1.6	24	□ • △ • 24 • 1.6 • S
5.7	24	□ • △ • 24 • 5.7 • S
8.3	24	□ • △ • 24 • 8.3 • S
9.6	24	□ • △ • 24 • 9.6 • S



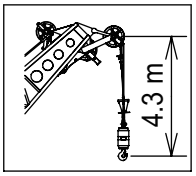
Working Ranges

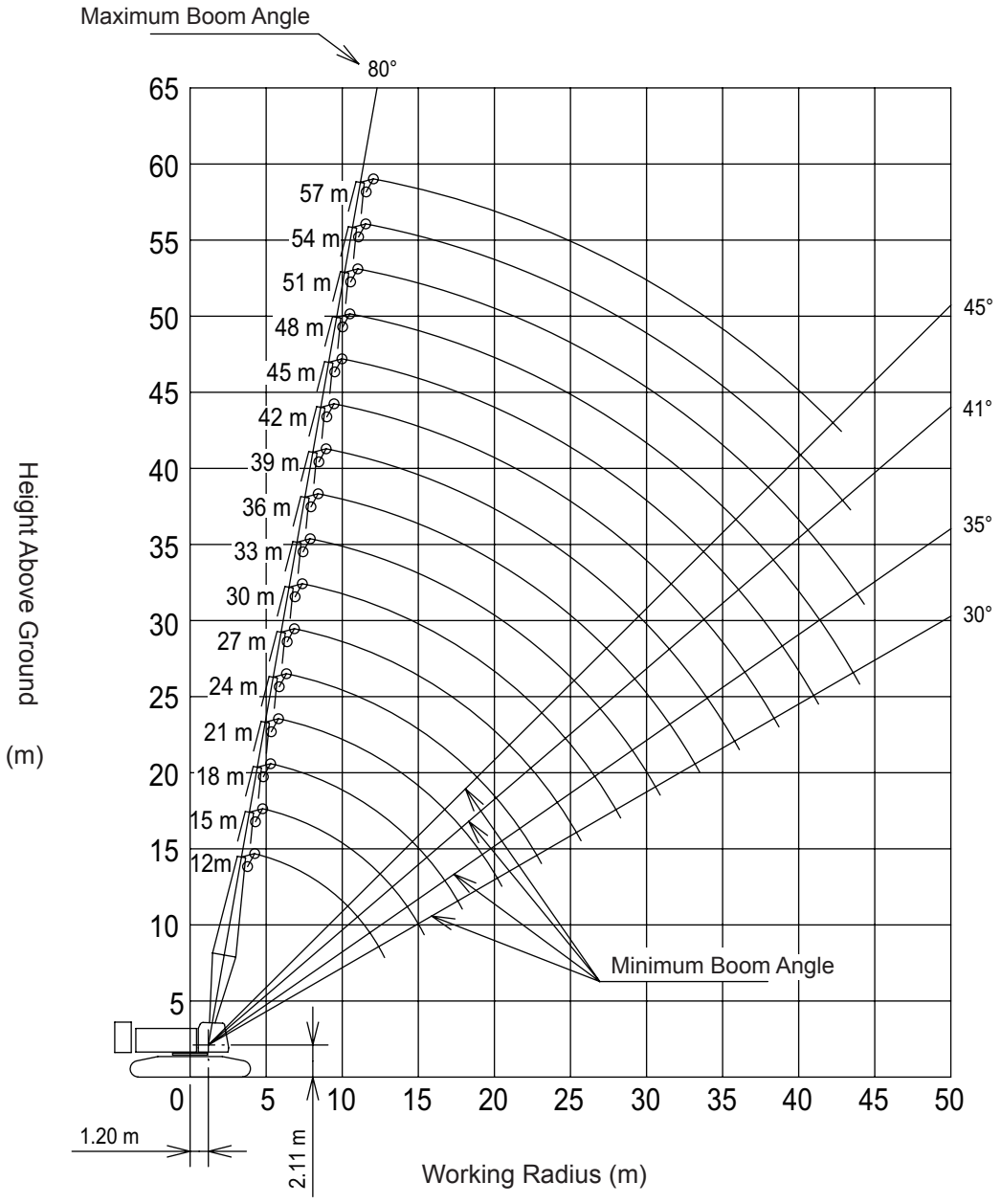
Main Boom



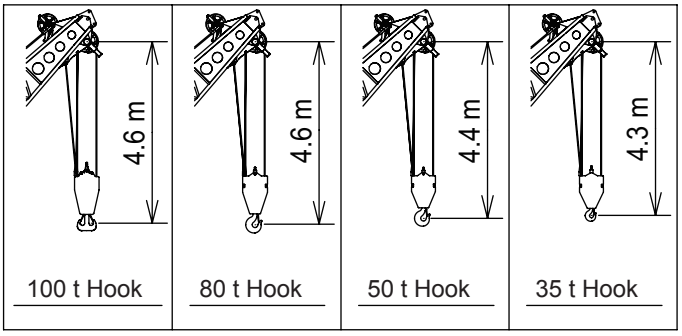


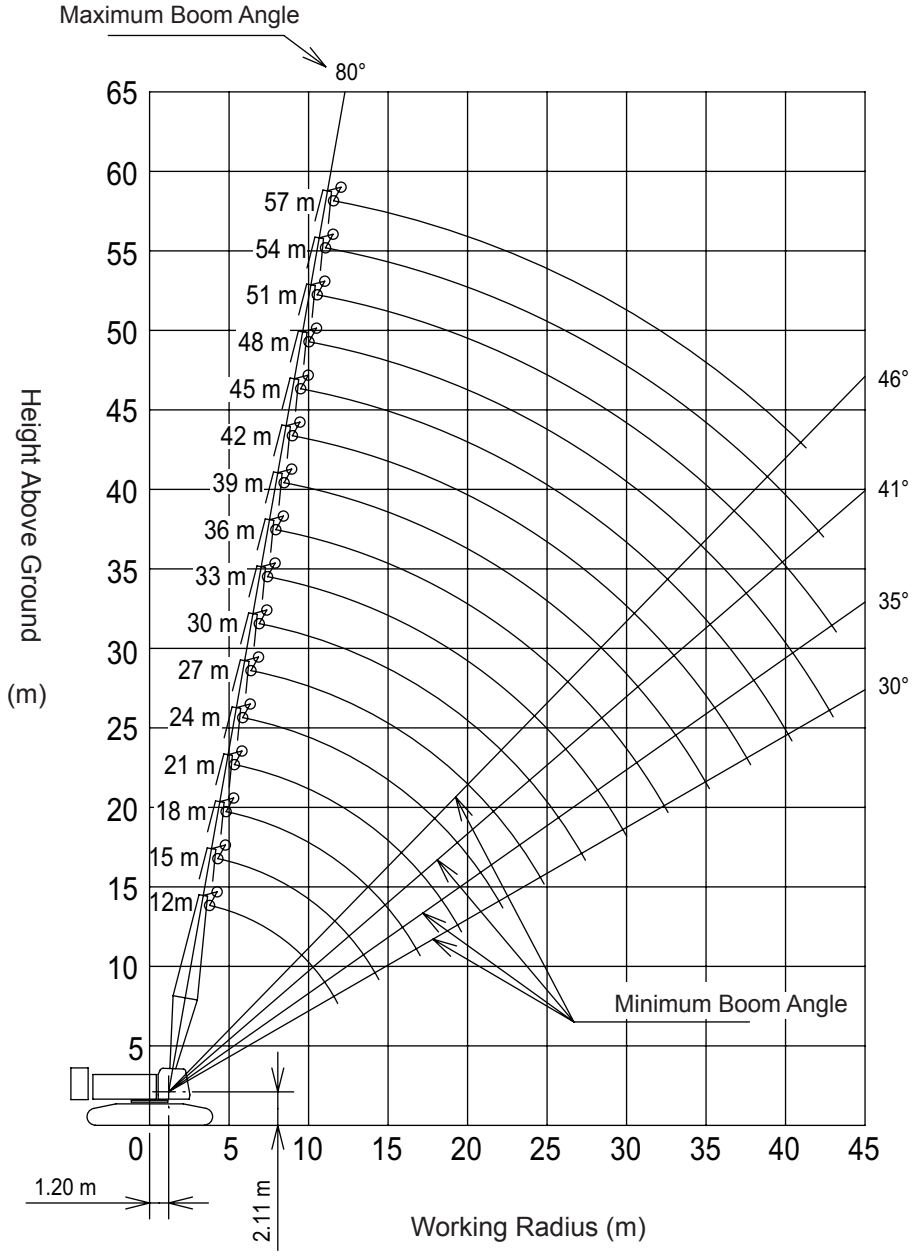
■ Aux. Sheave


4.3 m

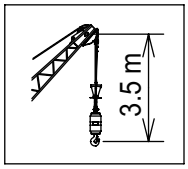

Maximum Boom Angle
80°
65
60
55
50
45
40
35
30
25
20
15
10
5
57 m
54 m
51 m
48 m
45 m
42 m
39 m
36 m
33 m
30 m
27 m
24 m
21 m
18 m
15 m
12m
45°
41°
35°
30°
Minimum Boom Angle
0
5
10
15
20
25
30
35
40
45
50
1.20 m
2.11 m
Height Above Ground
(m)
Working Radius (m)

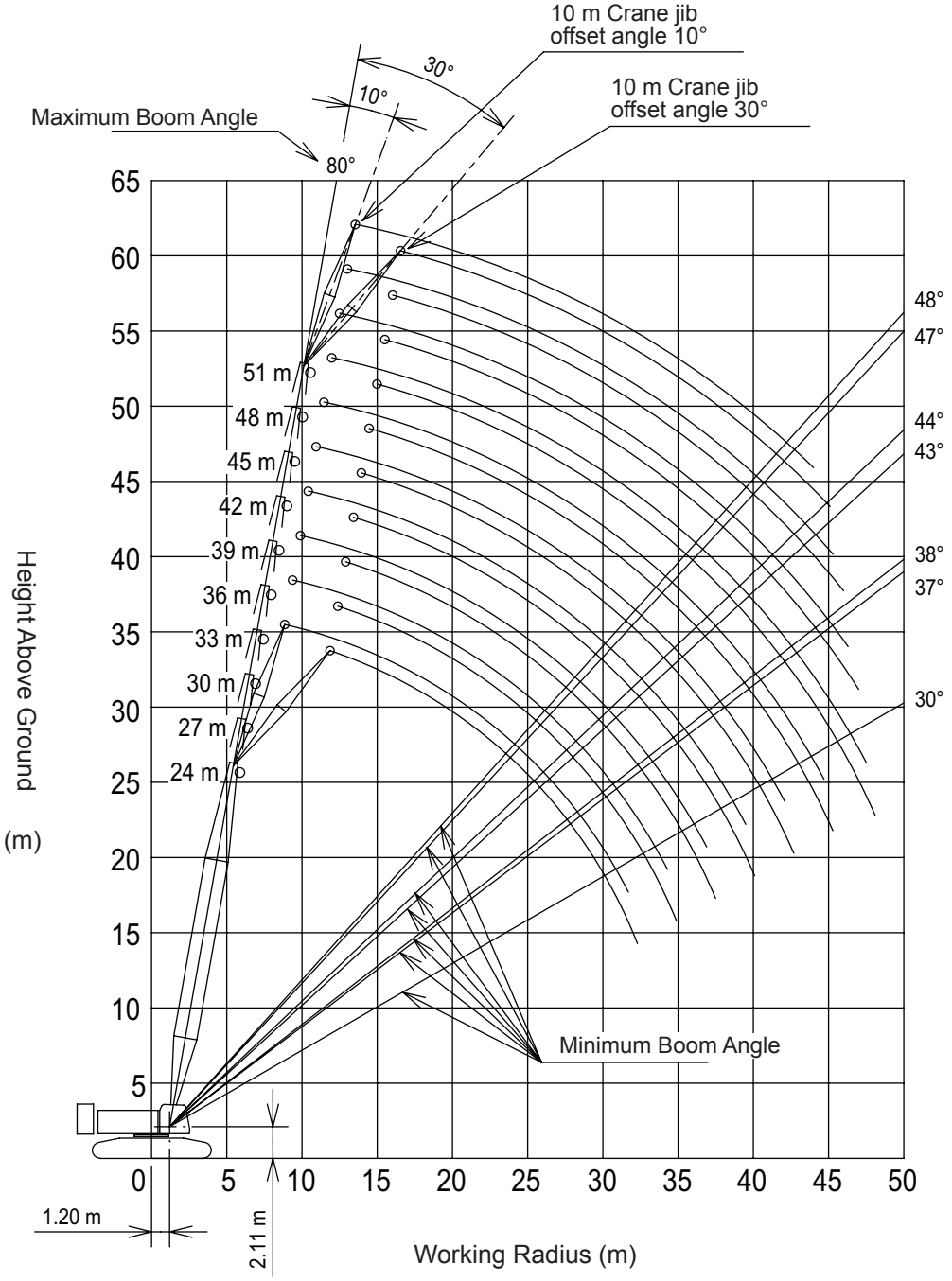
■ Main Boom with Aux. Sheave



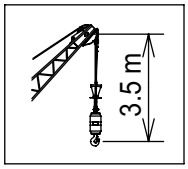


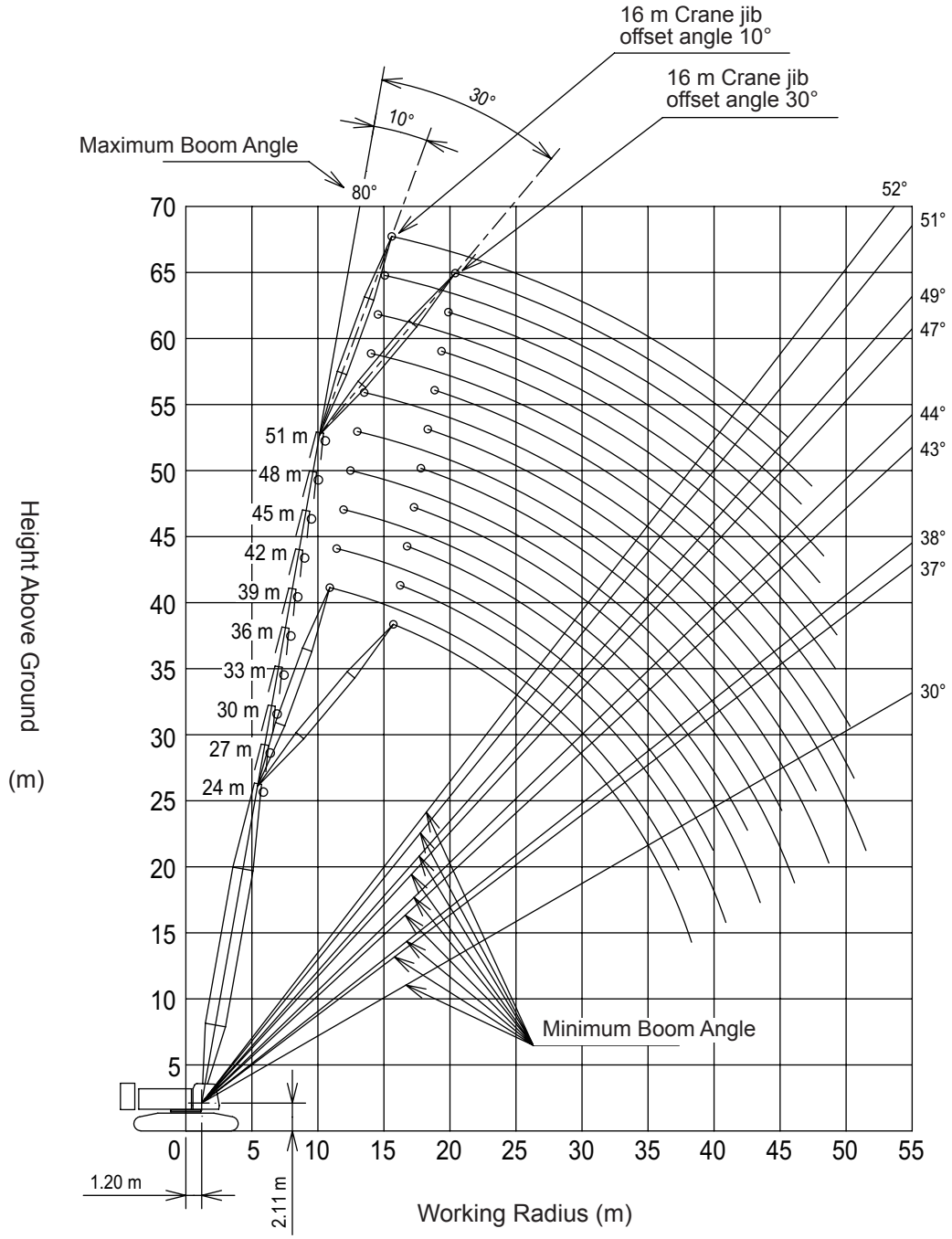
10 m Crane Jib



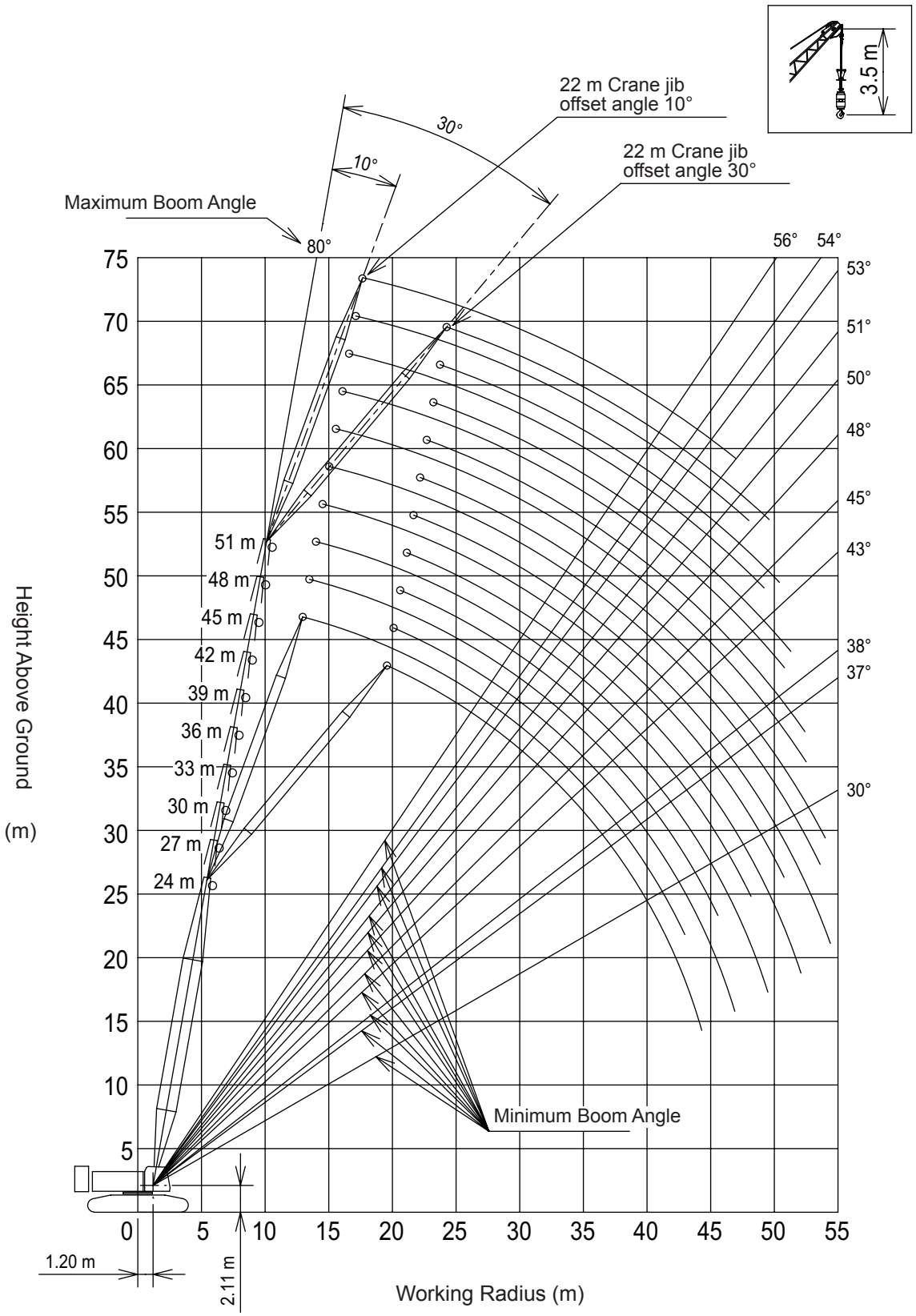


16 m Crane Jib

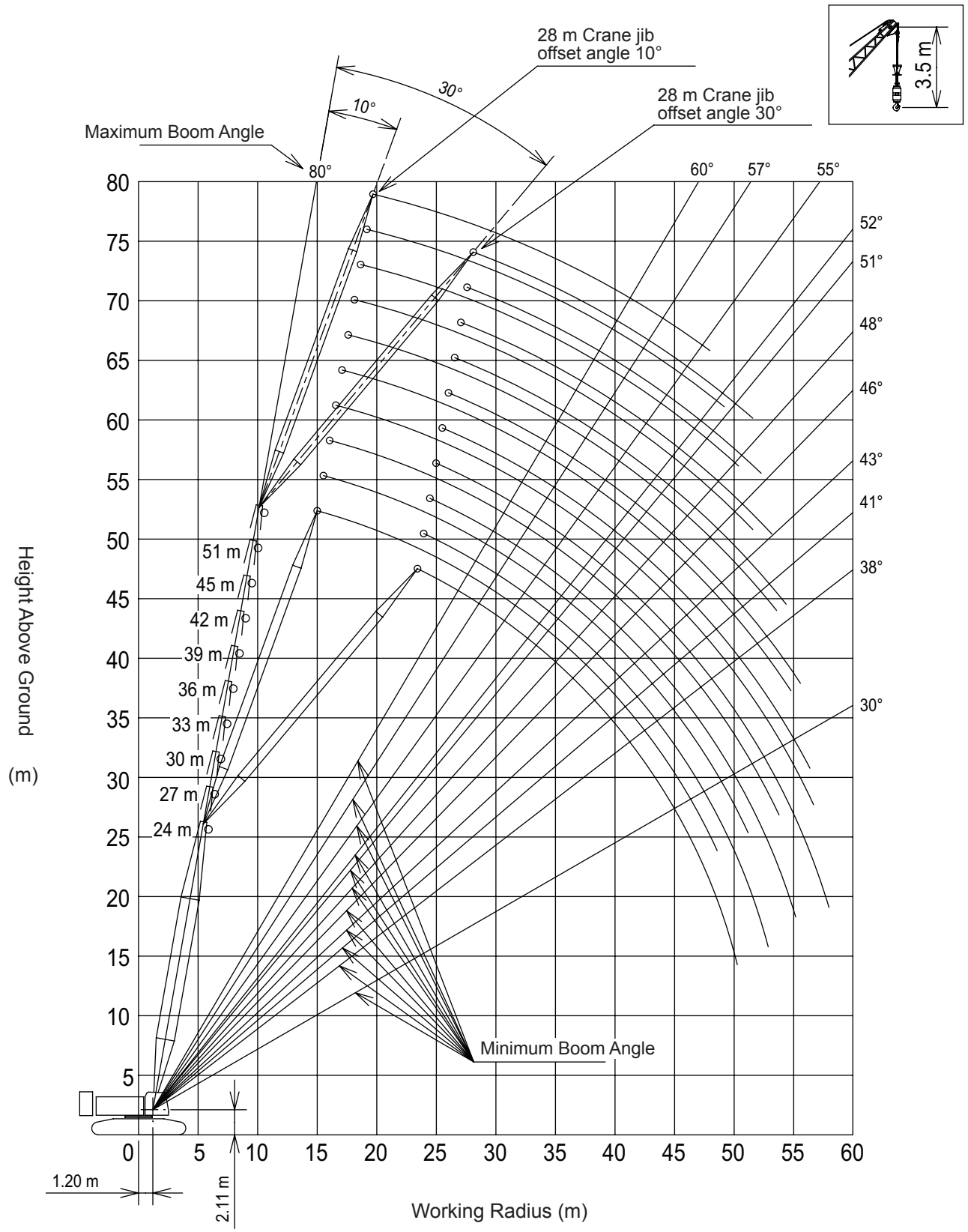




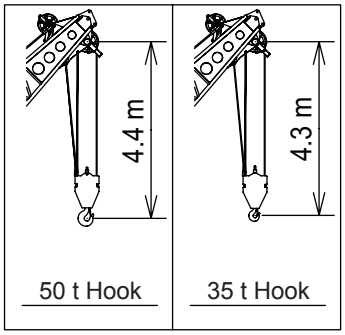
22 m Crane Jib

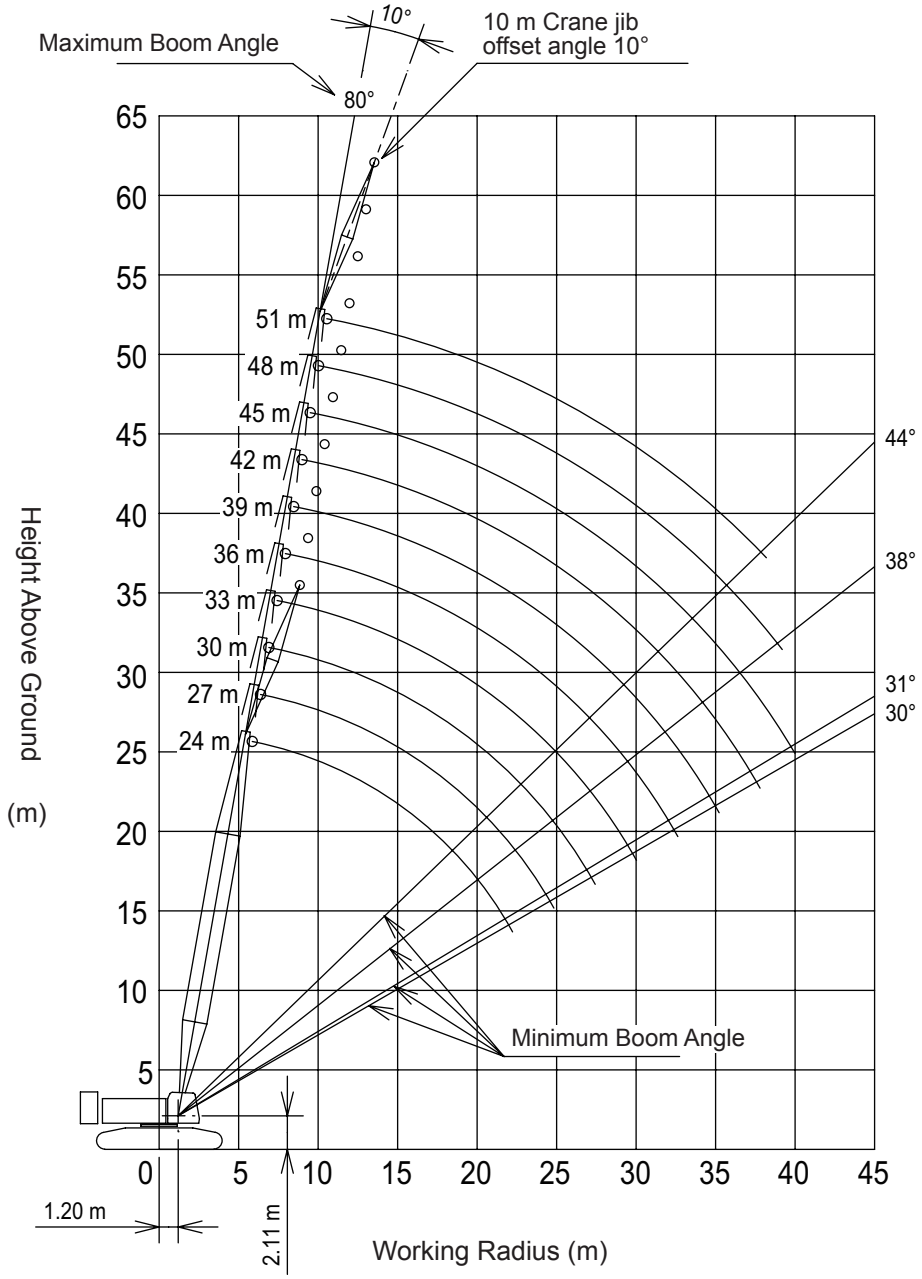


28 m Crane Jib

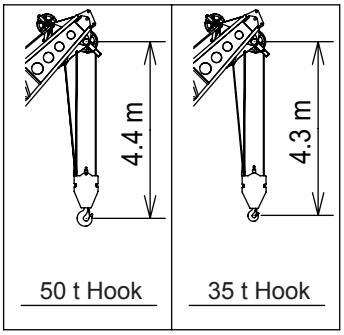


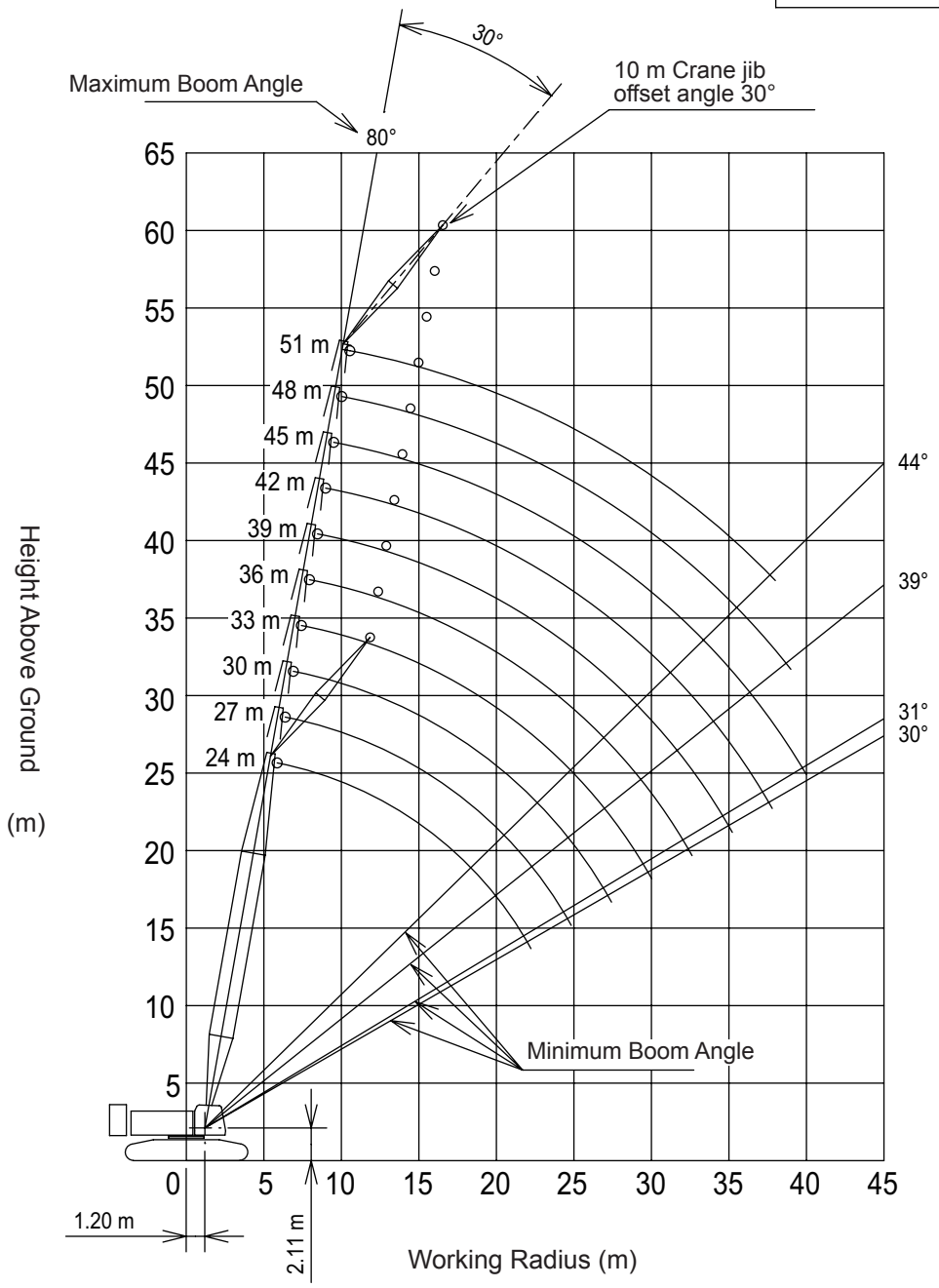
■ Main Boom with 10 m Crane Jib (Offset Angle 10°)



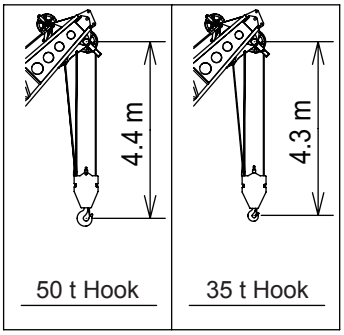


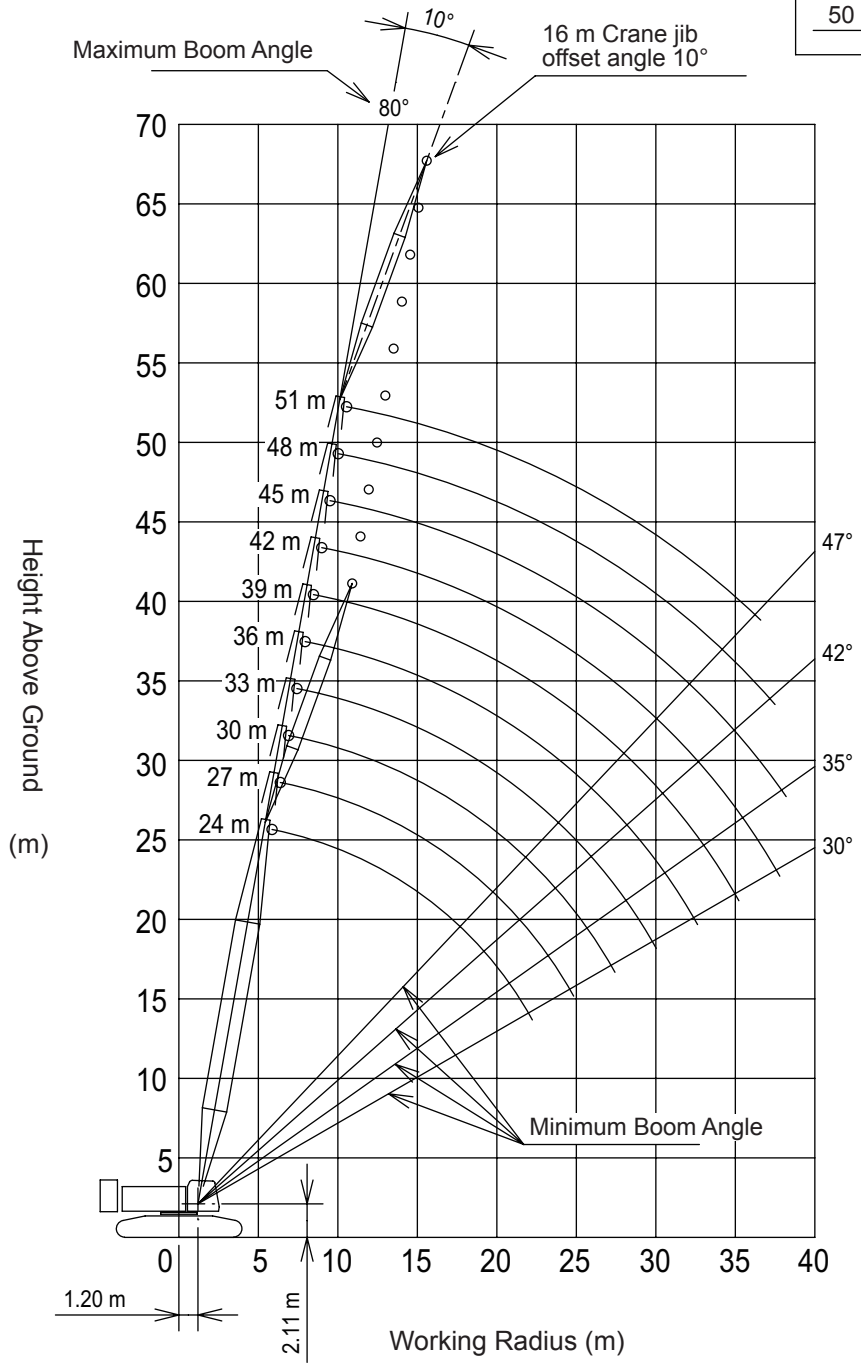
■ Main Boom with 10 m Crane Jib (Offset Angle 30°)



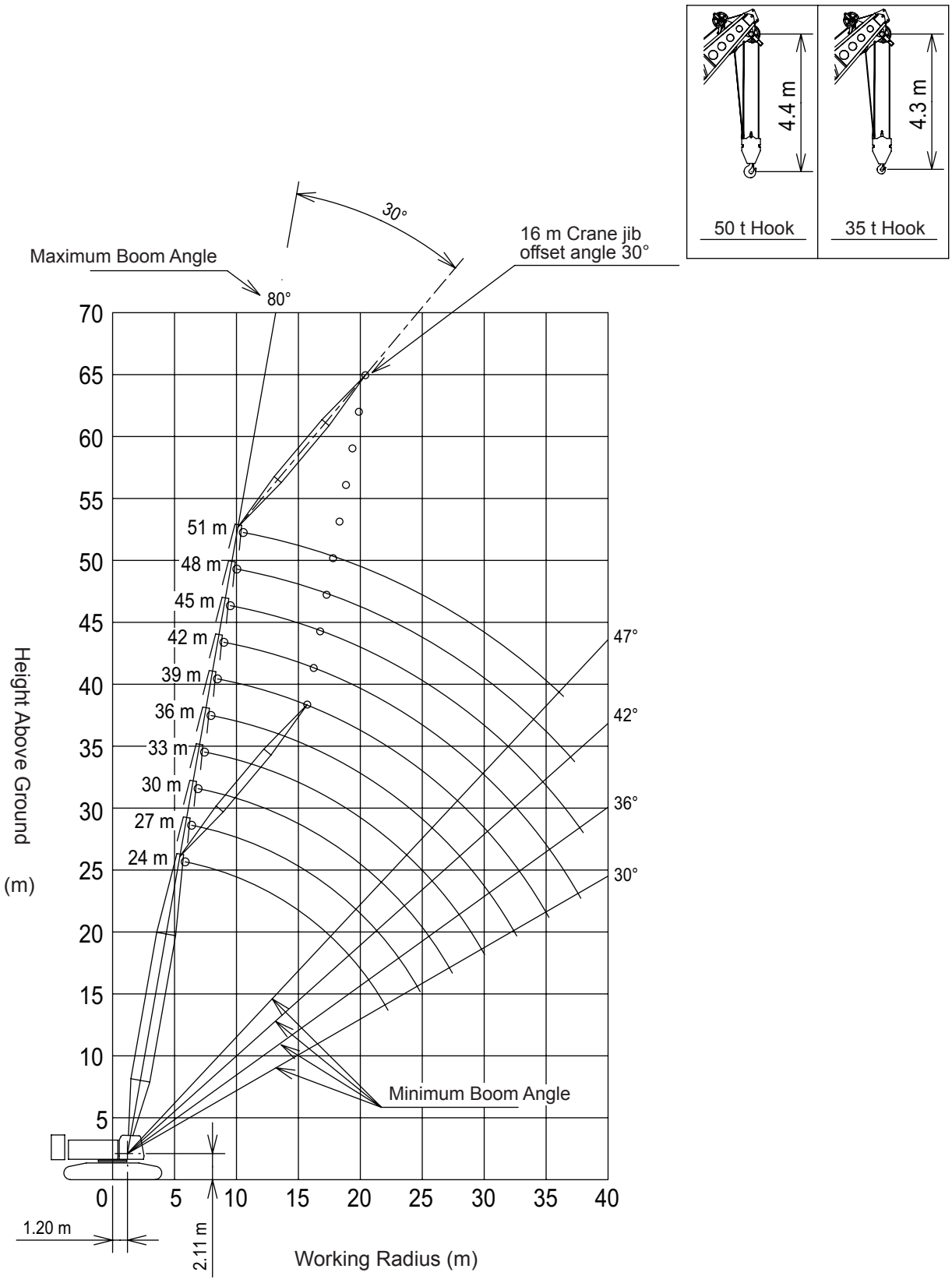


■ Main Boom with 16 m Crane Jib (Offset Angle 10°)

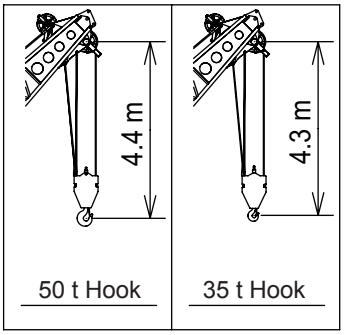


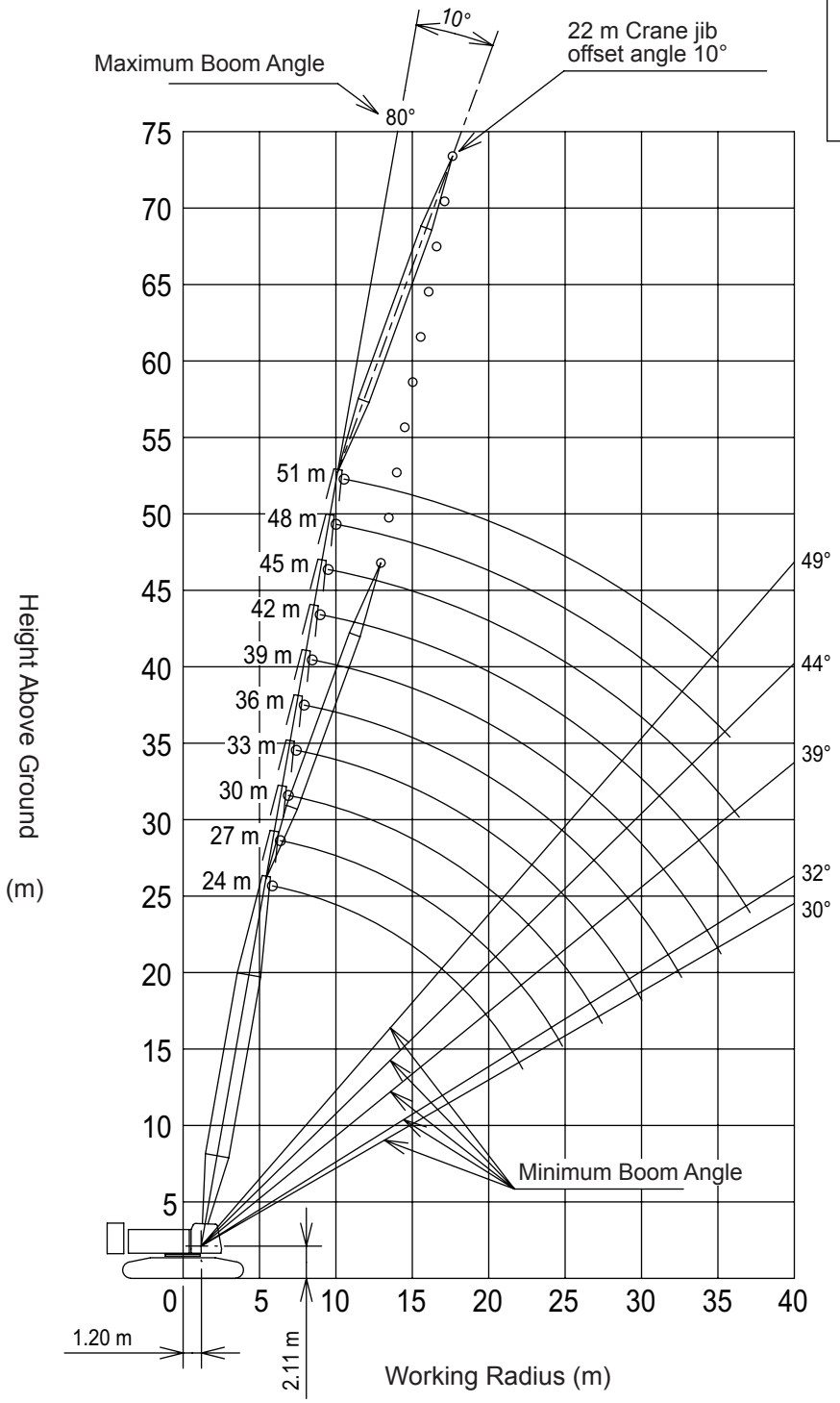


■ Main Boom with 16 m Crane Jib (Offset Angle 30°)

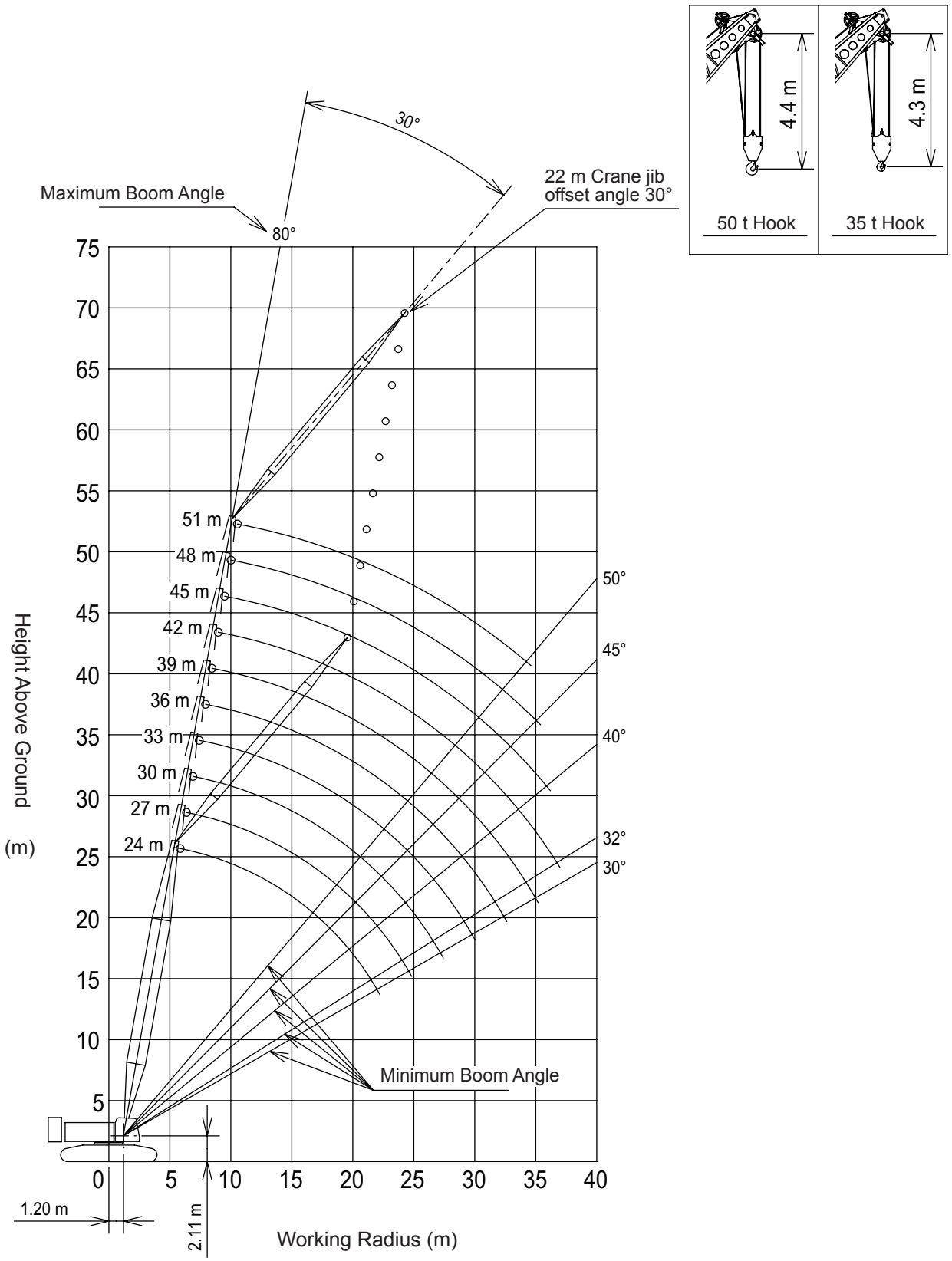


■ Main Boom with 22 m Crane Jib (Offset Angle 10°)

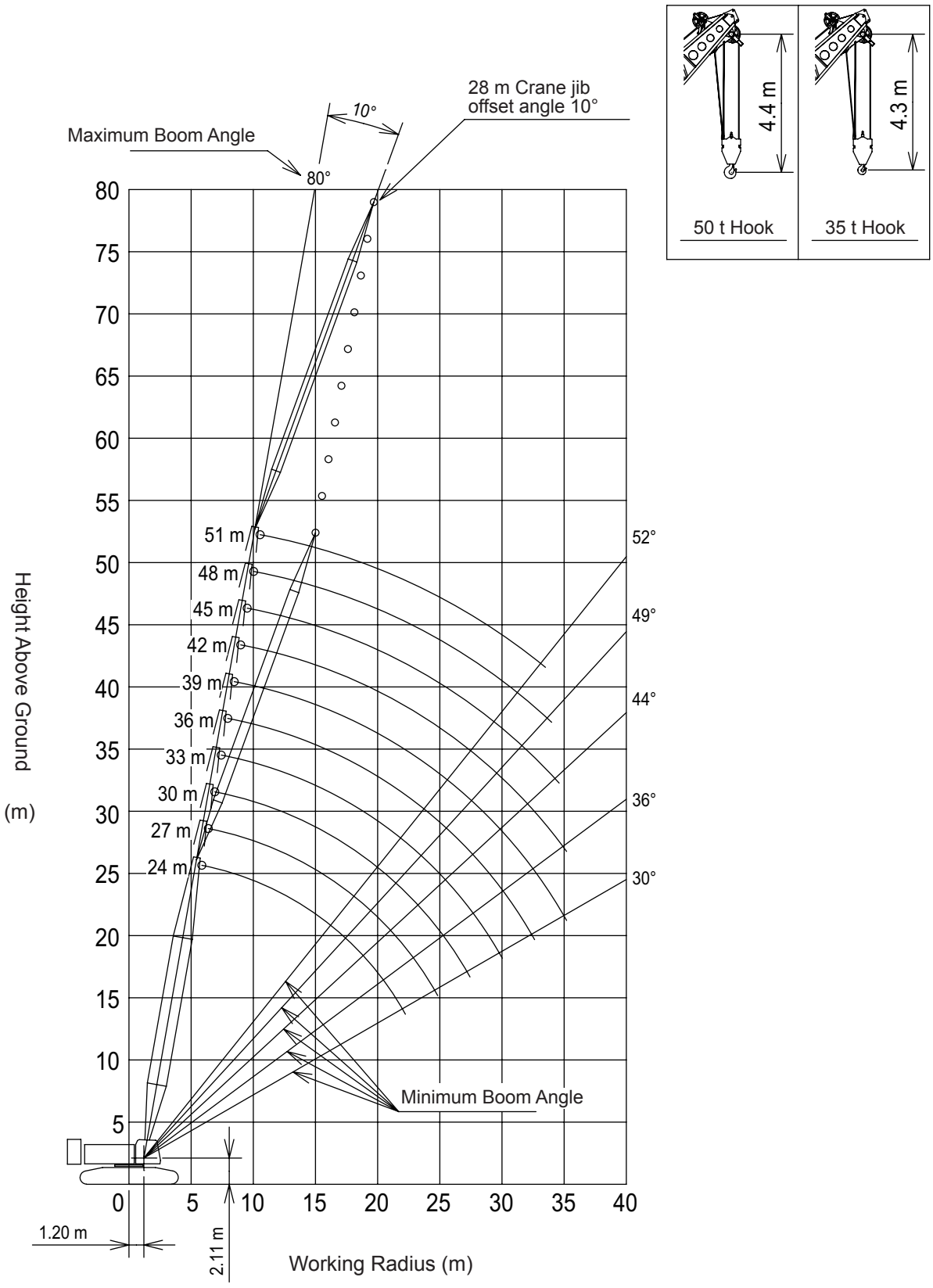




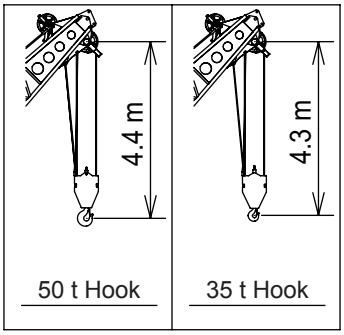
■ Main Boom with 22 m Crane Jib (Offset Angle 30°)

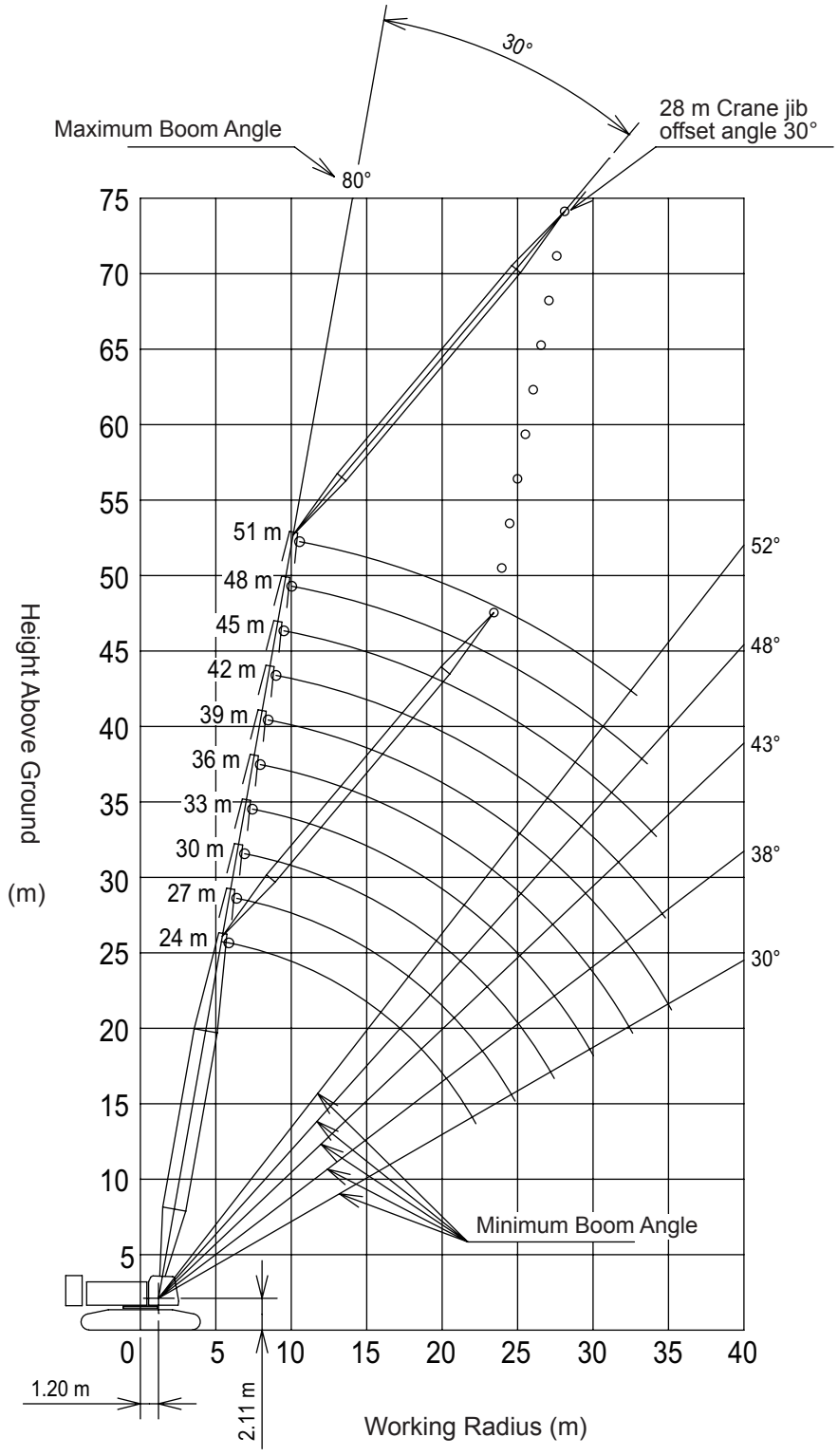


■ Main Boom with 28 m Crane Jib (Offset Angle 10°)



■ 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	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	8.15	8.10	26.0
28.0							7.95 /27.4	7.45	7.25	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	
8.0								8.0
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	2.35	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 /44.6	46.0
48.0					1.70 /47.2	1.70 /46.3		48.0

1. The rated loads are determined according to EN13000 rating 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 counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

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	13.50										4.6
5.0	13.50	13.50 /5.3									5.0
5.5	13.50	13.50	13.50 /5.8								5.5
6.0	13.50	13.50	13.50	13.50 /6.3	13.50 /6.9						6.0
7.0	13.50	13.50	13.50	13.50	13.50	13.50 /7.4					7.0
8.0	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50 /8.5			8.0
9.0	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50 /9.1	13.50 /9.6	9.0
10.0	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	10.0
12.0	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	12.0
14.0	13.50 /13.1	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	14.0
16.0		13.50 /15.7	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	16.0
18.0			13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	18.0
20.0			13.50 /18.2	12.75	12.55	12.45	12.25	12.05	11.80	11.75	20.0
22.0				12.10 /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	13.50 /10.2	13.50 /10.7	13.50 /11.3	13.50 /11.8			10.0
12.0	13.50	13.50	13.50	13.50	13.50 /12.4	13.50 /12.9	12.0
14.0	13.50	13.50	13.50	13.50	13.50	13.50	14.0
16.0	13.50	13.50	13.50	13.50	13.50	13.50	16.0
18.0	13.50	13.40	13.10	12.80	12.40	12.05	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

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 counterweight is 49.5 ton. (Upper weight 37.5 ton + Lower weight 12.0 ton)
6. Hook weight are shown in the table below.

Hook Capacity (t)	Hook Weight (t)
100	1.20
80	1.35
50	1.17
35	0.90
13.5	0.62

■ 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	39	
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	32.30 /8.8	8.0
9.0	37.70	37.60	37.50	37.40	36.80	35.70	34.70	33.50	32.50	31.60	9.0
10.0	32.60	32.50	32.30	32.30	32.10	31.80	30.90	29.90	29.00	28.20	10.0
12.0	26.10 /11.8	25.40	25.20	25.10	25.00	24.90	24.70	24.50	23.80	23.20	12.0
14.0		20.70	20.50	20.40	20.20	20.10	19.90	19.80	19.50	19.40	14.0
16.0		19.90 /14.4	17.10	17.00	16.80	16.70	16.50	16.40	16.10	16.10	16.0
18.0			15.80 /17.0	14.50	14.30	14.20	14.00	13.80	13.60	13.50	18.0
20.0				12.90 /19.6	12.40	12.30	12.00	11.80	11.60	11.60	20.0
22.0					10.80	10.70	10.50	10.30	10.00	10.00	22.0
24.0					10.70 /22.2	9.40	9.20	9.00	8.70	8.70	24.0
26.0						9.00 /24.8	8.20	7.90	7.70	7.60	26.0
28.0							7.50 /27.4	7.00	6.80	6.70	28.0
30.0								6.30	6.00	5.90	30.0
32.0									5.40	5.30	32.0
34.0									5.20 /32.6	4.70	34.0
36.0										4.40 /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	29.20 /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 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 counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

Crane Jib

Unit: ton loads /working radius

Boom Length (m)	24.0								Boom Length (m)
Jib Length (m)	10.0		16.0		22.0		28.0		Jib Length (m)
Offset Angle (deg) / Radius (m)	10.0	30.0	10.0	30.0	10.0	30.0	10.0	30.0	Offset Angle (deg) / Radius (m)
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		28.0		Jib Length (m)
Offset Angle (deg) / Radius (m)	10.0	30.0	10.0	30.0	10.0	30.0	10.0	30.0	Offset Angle (deg) / Radius (m)
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 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 counterweight is 49.5 ton. Hook weights are shown in the table below. (Upper weight 37.5 ton + Lower weight 12.0 ton)

Hook Capacity (t)	Hook Weight (t)
100	1.20
80	1.35
50	1.17
35	0.90
13.5	0.62

Crane Jib

Unit: ton loads /working radius

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)
10.0	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		28		Jib Length (m)
Offset Angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) / Radius (m)
10.0	12.00 /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

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 counterweight is 49.5 ton. Hook weights are shown in the table below. (Upper weight 37.5 ton + Lower weight 12.0 ton)

Hook Capacity (t)	Hook Weight (t)
100	1.20
80	1.35
50	1.17
35	0.90
13.5	0.62

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)
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	2.50	54.0
56.0						2.20 /54.4	2.20 /54.8	2.25	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		28		Jib Length (m)
Offset Angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) / Radius (m)
12.0	12.00 /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 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 counterweight is 49.5 ton. Hook weights are shown in the table below. (Upper weight 37.5 ton + Lower weight 12.0 ton)

Hook Capacity (t)	Hook Weight (t)
100	1.20
80	1.35
50	1.17
35	0.90
13.5	0.62

Crane Jib

Unit: ton loads /working radius

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)
12.0	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		28		Jib Length (m)
Offset Angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) / Radius (m)
12.0	12.00 /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 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 counterweight is 49.5 ton. Hook weights are shown in the table below. (Upper weight 37.5 ton + Lower weight 12.0 ton)

Hook Capacity (t)	Hook Weight (t)
100	1.20
80	1.35
50	1.17
35	0.90
13.5	0.62

Crane Jib

Unit: ton loads /working radius

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)
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		28		Jib Length (m)
Offset Angle (deg) / Radius (m)	10	30	10	30	10	30	10	30	Offset Angle (deg) / Radius (m)
14.0	12.00 /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 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 counterweight is 49.5 ton. Hook weights are shown in the table below. (Upper weight 37.5 ton + Lower weight 12.0 ton)

Hook Capacity (t)	Hook Weight (t)
100	1.20
80	1.35
50	1.17
35	0.90
13.5	0.62

■ Main Boom with Crane Jib

Unit: ton loads /working radius

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

Unit: ton loads /working radius

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)
6.0	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	6.0
7.0	46.10	45.75	45.45	44.85	44.70	43.75	43.85	42.50	7.0
8.0	39.75	39.50	39.15	38.60	38.40	37.60	37.60	36.45	8.0
9.0	34.85	34.60	34.25	33.80	33.55	32.85	32.75	31.75	9.0
10.0	30.95	30.70	30.35	29.95	29.65	29.05	28.85	28.00	10.0
12.0	24.10	23.95	23.60	23.30	23.00	22.50	22.35	21.65	12.0
14.0	19.35	19.20	18.85	18.60	18.30	17.90	17.65	17.10	14.0
16.0	15.95	15.85	15.45	15.30	14.90	14.65	14.30	13.90	16.0
18.0	13.40	13.35	12.95	12.80	12.40	12.20	11.80	11.50	18.0
20.0	11.45	11.40	11.00	10.90	10.50	10.30	9.90	9.70	20.0
22.0	9.90	9.85	9.45	9.35	8.95	8.85	8.40	8.25	22.0
24.0	8.65	8.60	8.20	8.15	7.70	7.65	7.15	7.10	24.0
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	26.0

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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 counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

■ Main Boom with Crane Jib

Unit: ton loads /working radius

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)
7.0	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)
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)
7.0	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

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6. The counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

■ 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 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 counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

■ Main Boom with Crane Jib

Unit: ton loads /working radius

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)
9.0	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
10.0	26.60	26.35	26.05	25.65	25.50	24.85	24.85	23.95	10.0
12.0	21.65	21.45	21.15	20.80	20.60	20.05	19.95	19.25	12.0
14.0	18.05	17.85	17.55	17.25	17.00	16.55	16.40	15.80	14.0
16.0	15.15	15.00	14.70	14.45	14.25	13.85	13.65	13.15	16.0
18.0	12.55	12.45	12.15	11.95	11.70	11.35	11.20	10.75	18.0
20.0	10.60	10.50	10.20	10.00	9.75	9.45	9.25	8.85	20.0
22.0	9.00	8.90	8.60	8.45	8.15	7.95	7.65	7.35	22.0
24.0	7.70	7.65	7.30	7.20	6.90	6.70	6.40	6.15	24.0
26.0	6.65	6.55	6.25	6.15	5.80	5.65	5.35	5.10	26.0
28.0	5.75	5.65	5.35	5.25	4.90	4.80	4.45	4.30	28.0
30.0	4.95	4.90	4.60	4.50	4.15	4.05	3.70	3.55	30.0
32.0	4.30	4.25	3.90	3.85	3.50	3.40	3.05	2.95	32.0
34.0	3.70	3.70	3.35	3.30	2.95	2.90	2.50	2.40	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
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

Unit: ton loads /working radius

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)
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
10.0	25.85	25.60	25.35	24.95	24.80	24.15	24.15	23.25	10.0
12.0	21.10	20.90	20.60	20.25	20.05	19.55	19.45	18.70	12.0
14.0	17.55	17.40	17.10	16.80	16.55	16.10	15.95	15.35	14.0
16.0	14.85	14.75	14.40	14.15	13.90	13.50	13.30	12.80	16.0
18.0	12.45	12.30	12.00	11.80	11.55	11.25	11.05	10.60	18.0
20.0	10.45	10.30	10.05	9.85	9.60	9.30	9.10	8.70	20.0
22.0	8.85	8.75	8.45	8.30	8.00	7.80	7.55	7.20	22.0
24.0	7.55	7.45	7.15	7.05	6.75	6.55	6.25	6.00	24.0
26.0	6.50	6.40	6.10	6.00	5.65	5.50	5.20	4.95	26.0
28.0	5.55	5.50	5.20	5.10	4.80	4.65	4.30	4.10	28.0
30.0	4.80	4.75	4.40	4.35	4.00	3.90	3.55	3.40	30.0
32.0	4.15	4.10	3.75	3.70	3.35	3.25	2.90	2.80	32.0
34.0	3.55	3.50	3.20	3.15	2.80	2.70	2.35	2.25	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
38.0	2.60	2.55	2.25	2.20	2.20 /36.4	2.20 /36.2			38.0
40.0	2.20	2.20	2.20 /38.2						40.0

1. The rated loads 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 counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

■ Main Boom with Crane Jib

Unit: ton loads /working radius

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)
10.0	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		28		Jib Length (m)
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 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 counterweight 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 (t)	Hook Weight (t)	Maximum Rated Loads (t)							
		8 falls	7 falls	6 falls	5 falls	4 falls	3 falls	2 falls	1 fall
100	1.20	100	94.5	81	67.5	54	40.5	27	-
80	1.35	-	-	80	67.5	54	40.5	27	-
50	1.17	-	-	-	-	50	40.5	27	-
35	0.90	-	-	-	-	-	35	27	-
13.5	0.62	-	-	-	-	-	-	-	13.5

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 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 counterweight 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 (t)	Hook Weight (t)	Maximum rated loads (t)						
		8falls	7falls	6falls	5falls	4falls	3falls	2falls
100	1.20	90	84	72	60	48	-	-
80	1.35	-	-	80	60	48	36	24
50	1.17	-	-	-	50	48	36	24
35	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

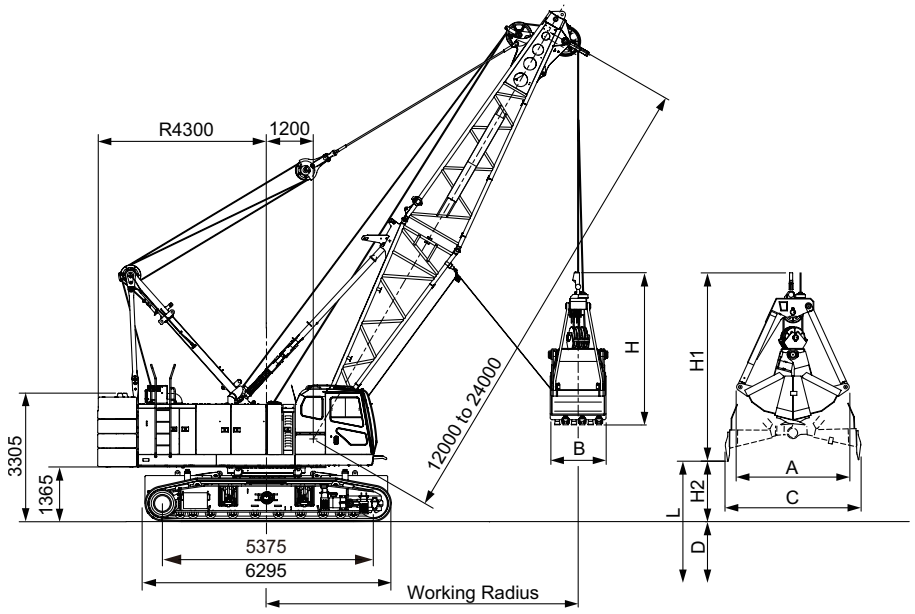
Working Radius(m)	Boom Length (m)						Working Radius(m)
	42	45	48	51	54	57	
9.0	29.25 /9.4	26.95 /9.9					9.0
10.0	27.40	26.70	24.70 /10.5	22.10 /11.1	18.85 /11.6		10.0
12.0	22.50	21.90	21.40	20.70	18.65	17.50 /12.2	12.0
14.0	18.90	18.40	17.95	17.35	16.90	16.45	14.0
16.0	15.85	15.70	15.35	14.80	14.40	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

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 counterweight 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 (t)	Hook Weight (t)	Maximum rated loads (t)						
		8falls	7falls	6falls	5falls	4falls	3falls	2falls
100	1.20	90	84	72	60	48	-	-
80	1.35	-	-	80	60	48	36	24
50	1.17	-	-	-	50	48	36	24
35	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	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Lift L (D + H2)	m	37.7	39.4	40.8	41.9	39.3	41.4	43.2	44.6	41.0	43.5	45.6	47.2	42.6	45.5	48.0	49.9	44.2	47.5	50.3	52.6
Max. Digging Depth D	m	36																			
Bucket Dumping Height H2	m	1.7	3.4	4.8	5.9	3.3	5.4	7.2	8.6	5.0	7.5	9.6	11.2	6.6	9.5	12.0	13.9	8.2	11.5	14.3	16.6

Specifications

		Clamshell Specifications	
Bucket Capacity	m^3	3.0	
Allowed Maximum Gross Weight for Clamshell Bucket and Captured Load Combined	t	12.5	
Boom Length	m	12 to 24	
Maximum Digging Depth	m	36	
Support Wire Rope Speed *	m/min	64	Wire Rope Diameter 28 mm
Opening/Closing Wire Rope Speed *	m/min	64	
Boom Hoist Drum Wire Rope Speed (Raise) *	m/min	44	Wire Rope Diameter 22.4 mm
Boom Hoist Drum Wire Rope Speed (Lower) *	m/min	44	
Ground Contact Pressure	kPa (kgf/cm²)	118 (1.20) (w/ Basic Boom, 3.0 m^3 Clamshell Bucket)	
Overall Operating Weight	t	Approximately 105 (w/ Basic Boom, 3.0 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)
3.0	6.5	2,980	1,650	3,500	3,550	4,550

Gross Rated Load Table

Unit ; ton

Working Radius (m)	Boom Length (m)				
	12	15	18	21	24
7.1	12.50/7.1				
8.0	12.50	12.50/8.4			
9.0	12.50	12.50	12.50/9.6		
10.0	12.50	12.50	12.50	12.50/10.9	
12.0	12.50/11.6	12.50	12.50	12.50	12.50/12.2
14.0		12.50	12.50	12.50	12.50
16.0			12.50	12.50	12.50
18.0			12.50/16.5	12.50	12.50
20.0				11.25/19.0	10.40
21.4					9.50/21.4

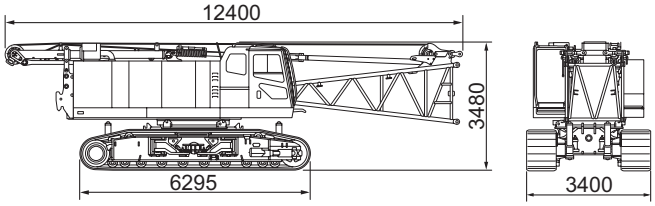
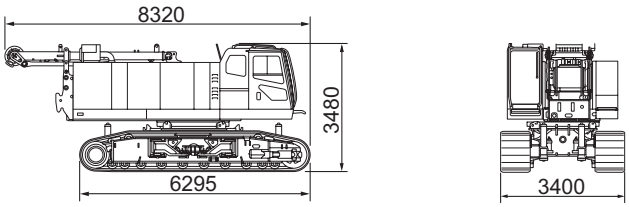
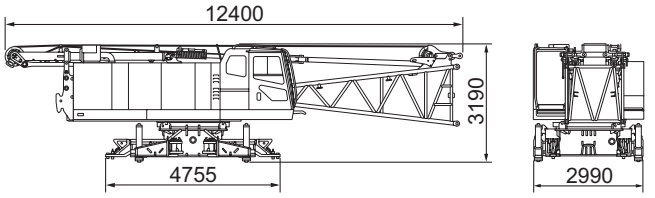
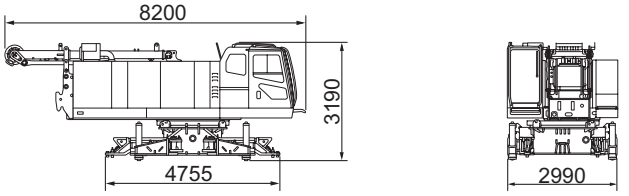
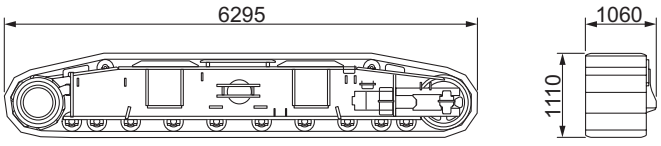
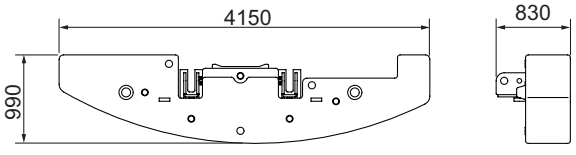
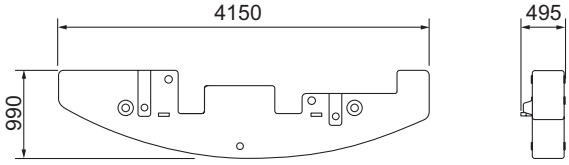
1. Max. clamshell rating is 12.5 t.
2. Mass of bucket plus load should not exceed clamshell ratings shown above. Following data are for a general digging application buckets.

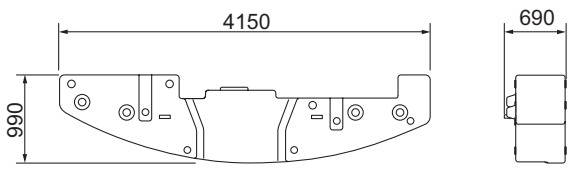
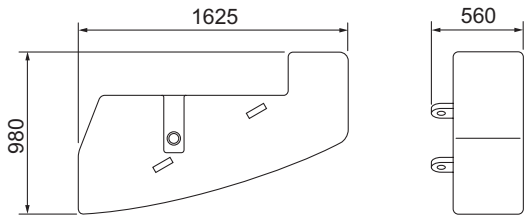
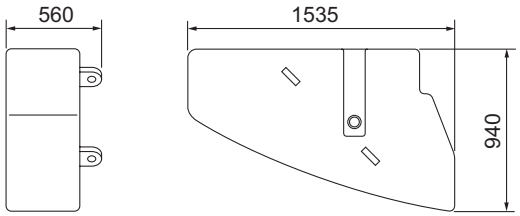
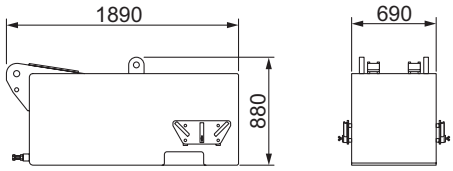
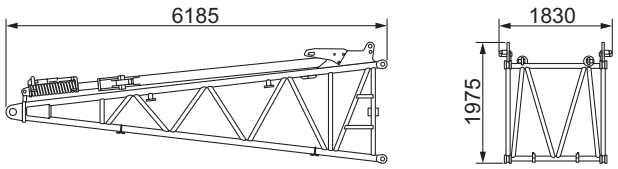
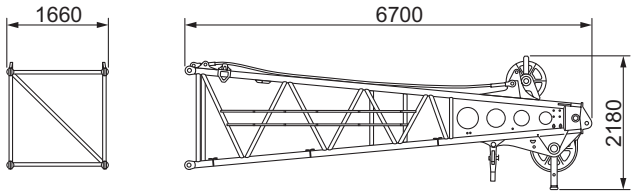
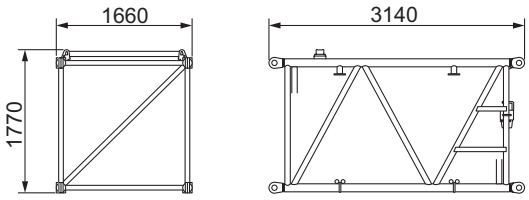
Bucket Capacity	2.0 m^3	2.5 m^3	3.0 m^3
Bucket Mass	4.5 t	5.5 t	6.5 t

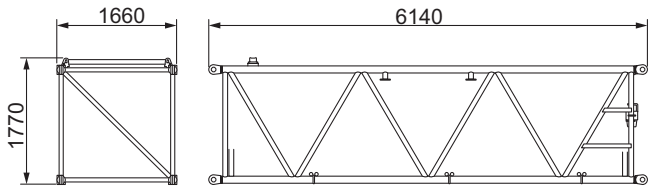
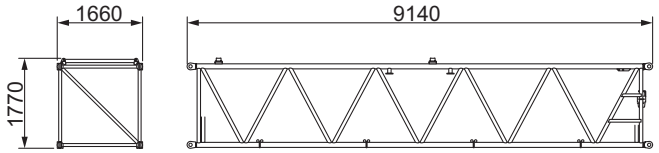
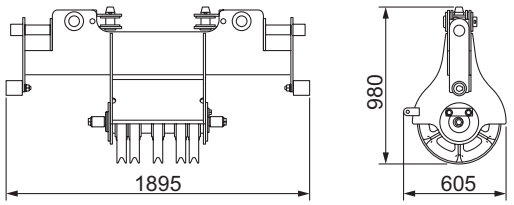
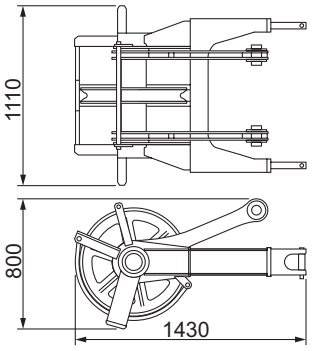
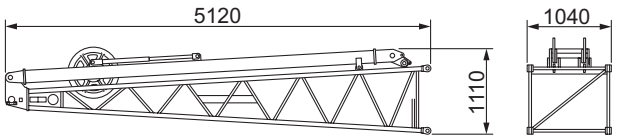
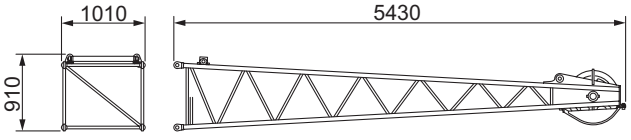
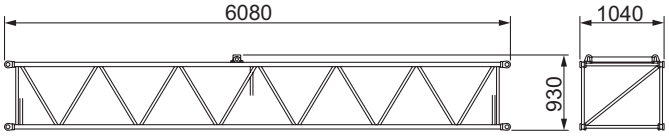
3. In case of clamshell application, a 12 m boom is recomenned as minimum length of boom, and max. boom length shall not exceed 24 m.
4. Apparent specific gravity of lifting material :
   Earth ..... 1.7 to 1.8 t/m^3
   Gravel ..... 1.8 to 2.0 t/m^3
5. Upper weights should be used in an assembly configuration (31.7 t) excluding right and left top weights.
6. Max. digging depth below ground shall be 36 m.

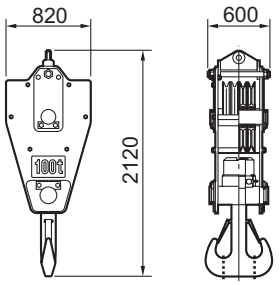
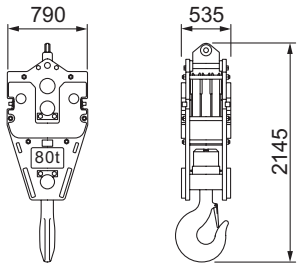
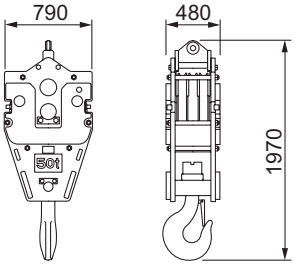
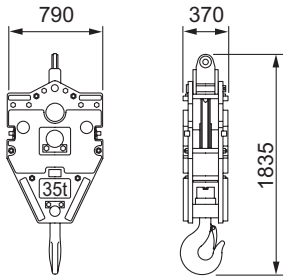
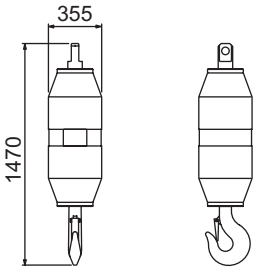
Weights and Dimensions of Disassembled Units

Weights and Dimensions List

Description	Qty	Dimensions (mm)	Weight (kg)
Base Crane with: Boom Base Front Wintch Wire Rope Rear Wintch Wire Rope Boom Hoist Wintch Wire Rope Crawlers Jack Without: Floats	1		52300
Base Crane with: Front Wintch Wire Rope Rear Wintch Wire Rope Boom Hoist Wintch Wire Rope Crawlers Jack Without: Floats	1		50100
Base Crane with: Boom Base Front Wintch Wire Rope Rear Wintch Wire Rope Boom Hoist Wintch Wire Rope Jack Without: Floats	1		33200
Base Crane with: Front Wintch Wire Rope Rear Wintch Wire Rope Boom Hoist Wintch Wire Rope Jack Without: Floats	1		31000
Crawler	2		9600
Counter Weight (Base)	1		9420
Counter Weight	2		6640

Description	Qty	Dimensions (mm)	Weight (kg)
Counter Weight	1		8980
Counter Weight	1		2810
Counter Weight	1		3000
Lower Weight	2		6040
Boom Base	1		1720
Boom Top	1		1650
3 m Boom Insert	1		430

Description	Qty	Dimensions (mm)	Weight (kg)
6 m Boom Insert	1		690
9 m Boom Insert	1		1000
Upper Spreader	1		490
Aux. Sheave	1		340
Jib Base (with Jib Strut)	1		580
Jib Top	1		290
6 m Jib Insert	1		190

Description	Qty	Dimensions (mm)	Weight (kg)
100 t Hook	1		1200
80 t Hook	1		1350
50 t Hook	1		1170
35 t Hook	1		900
13.5 t Hook	1		620

Equipment List

Standard and Optional Equipment

○ : Standard ● : Optional — : No setting

Item		Crane	Clamshell
Lower Structure	810 mm Crawler Shoe	○	○
	Jack Up Unit	○	○
	Crawler Extension/Retraction System	○	○
	Steps	○	○
	Shoe Tension Unit (Hydraulic)	●	●
	Low Wear Shoe (Contiguous Surface of Roller)	●	●
Upper Structure	Catwalk (Cab)	○	○
	Upper House Handrails (For catwalk)	○	○
	Under Cover (Bed Lower Surface)	○	○
	Working Light (× 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)	●	●
	Catwalk (Folding type, Left / Right)	● / ○ *3	● / ○ *3
	Electric Fuel Pump	●	●
	Upper House Handrails (Folding type)	● / ○ *3	● / ○ *3
	Winch with Front and Rear Free Mechanism	○	○
	Third Winch (Rope not included)	●	-
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 & Lower Frame)	○	○
	Accelerator Pedal (Right Side)	●	●
	Arm Chair Lever	○	○
	Cross Operation Lever (Lever Lock not Attached)	● / ○ *3	● / ○ *3
	Front Operation Lever (with Lever Lock)	●	●
	Seat without Suspension	○	○
	Seat with Suspension	● / ○ *3	● / ○ *3
	Travel Operation Pedal (Cannot be installed when winch with free mechanism attached)	●	●
	Boom Hoist Operation Pedal *1	●	●
	Swing Brake Operation Pedal *1	●	●
	Fan	●	●
	Front/Rear Operation Lever, Brake Pedal Permutation	●	●
	Fuel Burning Heater	●	●
	Accelerator Grip	○	○
	Drum Rotation Sensor (Front/Rear/Boom Hoist) *2	○	○
	Speed Control Dial (Front/Rear/Boom Hoist/Swing)	○	○
	Life Hammer	○	○

*1 Cannot be installed at the same time.
*2 Cannot be equipped when the cross operation lever or front operation lever is installed.
*3 Europe specification machines only.

○ : 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)		●	-
	80 t Hook (3 Sheaves)		●	-
	50 t Hook (3 Sheaves)		●	-
	35 t Hook (1 Sheave)		●	-
	13.5 t Hook		●	-
Wire Rope	Front Winch (ϕ 28)	P · S (19) + 39XP · 7	●	-
		IWRC 6 X P · WS (31)	-	○ *5
	Rear Winch (ϕ 28)	Mono Rope EP 3XF (40)	●	-
		P · S (19) + 39XP · 7	●	-
		IWRC 6 X P · WS (31)	●	○ *6
	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 Light		●	●
	Gate Lock Lever		○	○
	Individual Operation Lever Lock (Front, Rear, Boom Hoist, Travel) *4		○	○
	Automatic Drum Lock (Boom Hoist)		○	○
	Winch Drum Lock (Front/Rear)		○	○
	Winch Drum Dead Tums Detective Device		● / ○ *7	● / ○ *7
	Swing Lock		○	○
	Swing Alarm		○	○
	Travel Alarm		○	○
	Auto Slowdown (Slow Stop)		○	○
	Boom Over Hoist Prevention Device		○	○
	Secondary Boom Over Hoist Prevention Device		○	○
	Warning Alarm		○	○
	Monitor Panel (Machine Monitoring)		○	○
	Engine Start Interlock System		○	○
	Emergency Engine Stop Switch (In Cab)		○	○
	Lifting Height Indicatation Device		○	○
	Anti-two Block Device		○	-
	Moment Limiter (M/L) Mode Selector (In Left House)		● / ○ *7	○
	Swing Restriction Unit		●	●
	Lowering Limiter		●	●
	Anemometer		●	-
	Obstacle Lights (Fixed Lights)		●	-
	Drum and Rear View Monitor System (3 Cameras)		●	●
	Cab Roof Window Guard		● / ○ *7	● / ○ *7

*4 An operation lever lock is not attached to the front, rear or boom hoist when the cross operation lever is installed.
*5 Used for opening/closing rope. 82 m length rope required for 12 m diggind depth with 21 m boom length.
*6 Used for supporting rope. 70 m length rope required for 12 m diggind depth with 21 m boom length.
*7 Europe specification machines only.

○ : Standard ● : Optional — : No setting

Item			Crane	Clamshell
Common parts	Boom Back Stop		○	○
	Boom Angle Sensor		○	○
	Boom Lifting Piece		○	○
	Remote Sensing (Mobile Communication Terminal and Data Logging Device)		○	○
	Remote Sensing (Satellite Communication Terminal and Data Logging Device)		●	●
	Assembly Pad *8		●	-
	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)		● *9	●
	Opening / Closing / Support Rope Stopper		-	○
	Hydraulic Tagline (6 × Fi (29) ϕ 10 mm × 55 m)		● *10	○
	Reeving Winch (4 × F (30) ϕ 8 mm × 250 m)		● *10	-
	Reeving Winch cum Hydraulic Tagline	for Hydraulic Tagline (6 × Fi (29) ϕ 10 mm × 55 m)	● *10	-
		for Reeving (6 × Fi (29) ϕ 10 mm × 220 m)		
	Reduction Counterweight Specification		● *11	-
	Sling Ropes for Assembly and Disassembly (for Counterweights, Crawlers)		●	●
	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 When it chooses, the width at the time of transportation is set to not less than 3 m.

*10 (1) Hydraulic tagline (maximum line pull: 2.9 kN (300 kg))
(2) Reeving winch unit (maximum line pull: 11.8 kN (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))

*11 The reduction counterweight 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 speafications 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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