



SCX1000A-3
Stage III A / Tier 3

SCX 1000A-3

HYDRAULIC CRAWLER CRANE

Specifications & Lifting Capacities

Hoist Rope 28mm

HITACHI SUMITOMO





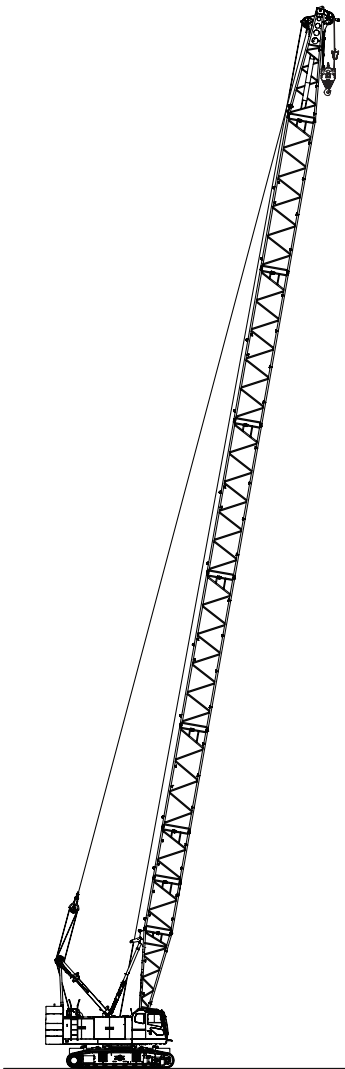
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VARIATION

Variation of The Attachment

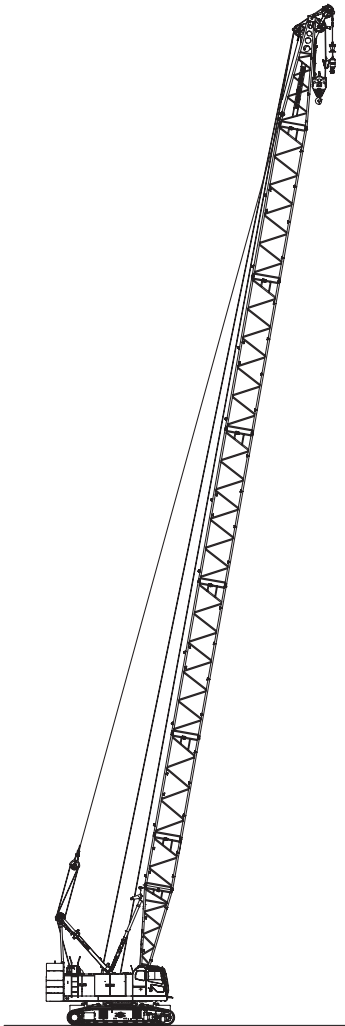
Line Speed *	Front / Rear Winch (Rated with 13.5 t load)	m/min	110 (45)
	Third Winch (Rated with 12 t load)		95 (30)
Swing Speed		min ⁻¹ (rpm)	2.3
Travel Speed High / Low *		km/h	2.0 / 1.1
Gradeability		% (Degree)	30 (17)
Engine Model		ISUZU 6HK1 (Stage III A, Tier 3)	
Engine Rated Output Power		kW/min ⁻¹ (ps/rpm)	200.6 / 1850 (272 / 1850)

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



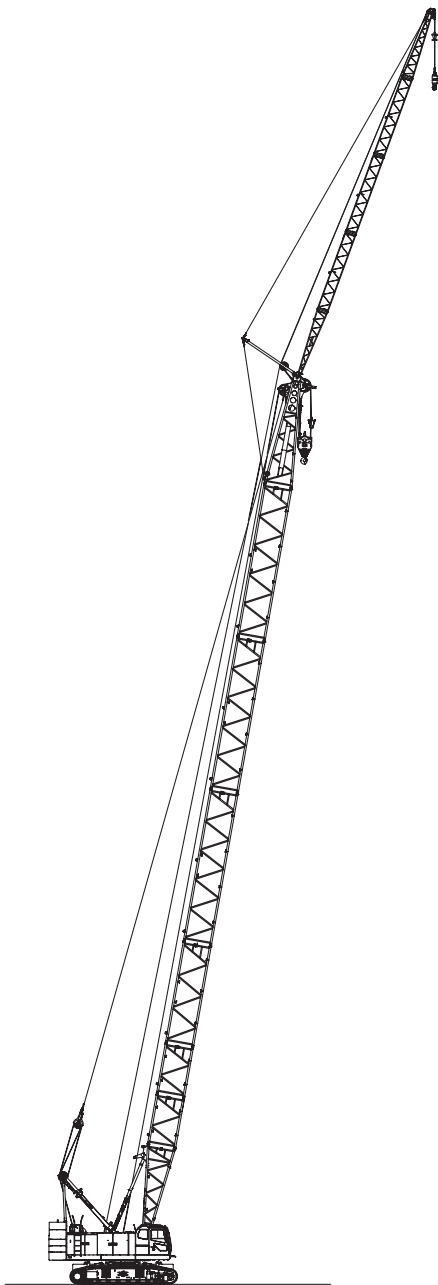
Crane Specification
(Boom Longest Length)

Boom Length	m	12 to 60
Ground Contact Pressure	kPa (kgf/cm ²)	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/cm ²)	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)



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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 ⁻¹ (272 ps / 1,850 rpm)
Fuel Tank Capacity	460 liters
Notes	Engine meets Stage III A / Tier 3 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	152 liters / min	for Swing, Jack, Sideframe retract and Gantry cyl.
	P4	38 liters / min	
	P5	38 liters / min	Pilot control, Brake cooling,
	P6	38 liters / min	Reeving tagline, etc.
	P7	30 liters / 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		Free fall winch with brake controlled by pedal operation.		
		High-speed winching is possible by ECO winch mode with low engine speed under light loads.		
Boom Hoist Winch				
Rope Diameter		22.4 mm		
Rope Length	Incorporated	160 m		
Hydraulic motor with multi-disc brakes.				

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 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
Lower Weight	3.0 ton Top Weight	1 piece
	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.

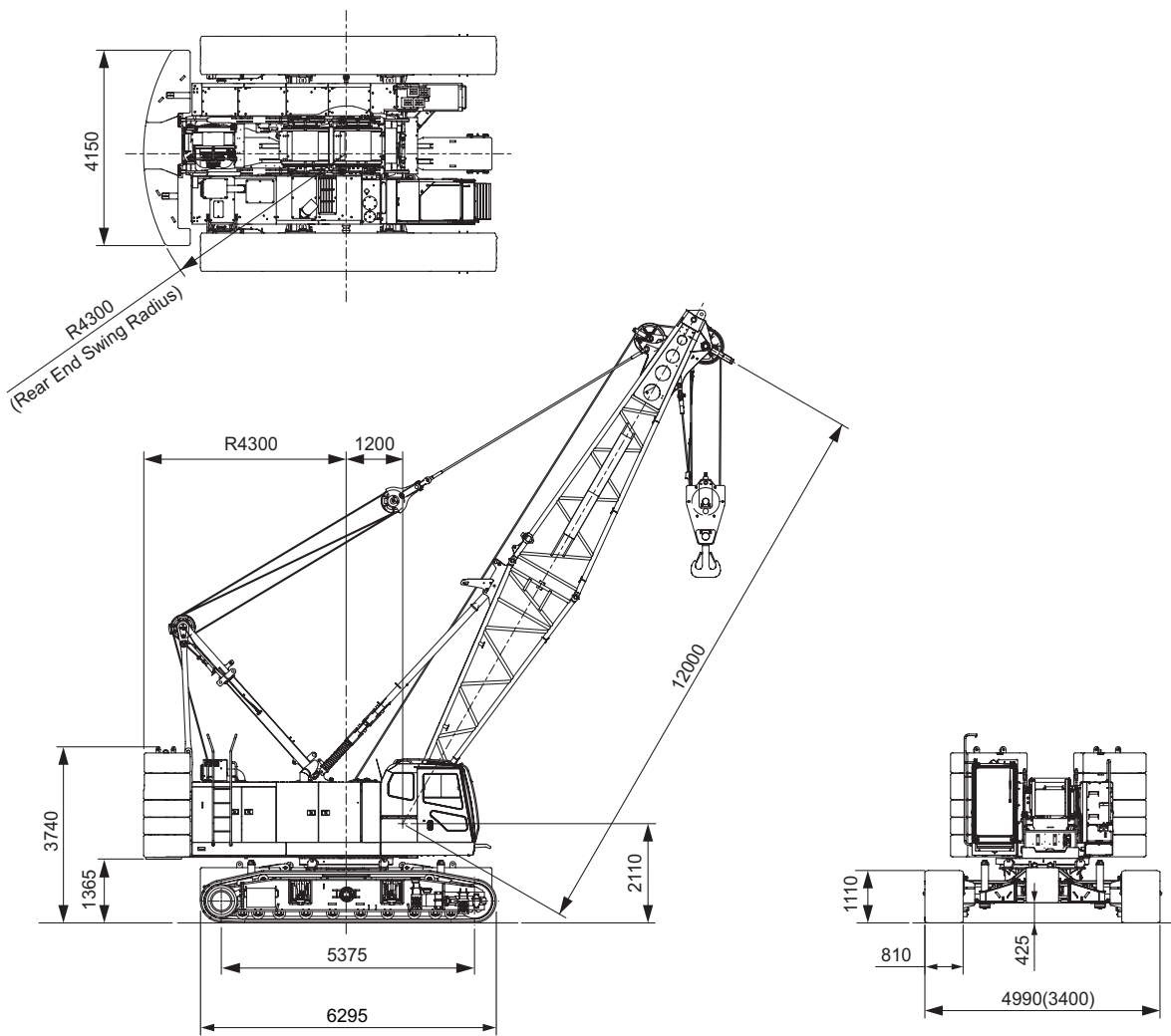
Crawler Sideframe

Frame	Welded steel box construction, and can be retracted.	
Crawler 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

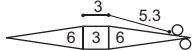
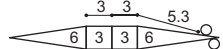
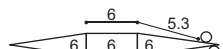
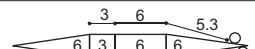
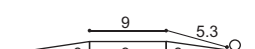
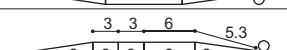
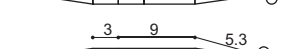
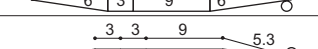
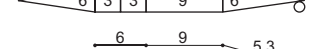
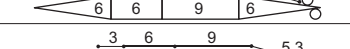
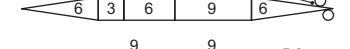
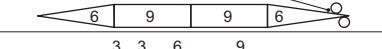
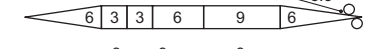
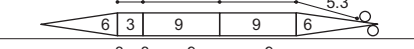
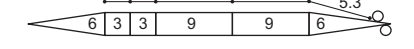
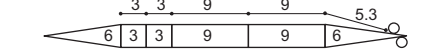
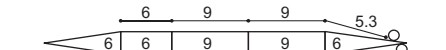
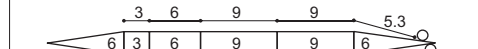
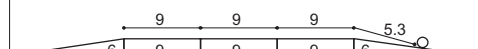


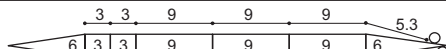
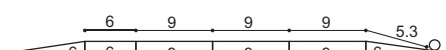
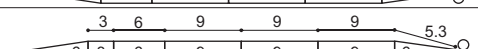
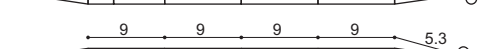
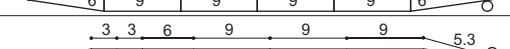
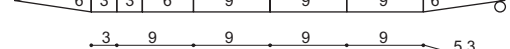
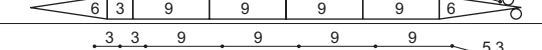
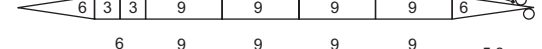
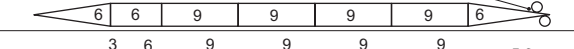
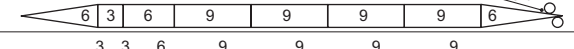
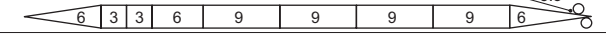
Crane Specifications		
Max. Lifting Load × Working Radius	t × m	100×3.8
Basic Boom Length	m	12
Max. Boom Length	m	60
Max. Crane Jib Length	m	10 to 28
Max. Boom + Jib Length	m	51 + 28
Ground Contact Pressure	kPa (kgf/cm²)	118 (1.21) (w / Basic Boom, 100 t Hook)
Overall Operating Weight	t	Approximately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

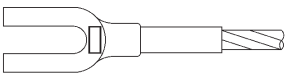
Boom	
Boom Length (m)	Boom Configurations
45	 
48	 
51	 
54	 
57	 
60	

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





Crane Specifications

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

SPECIFICATIONS

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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°	

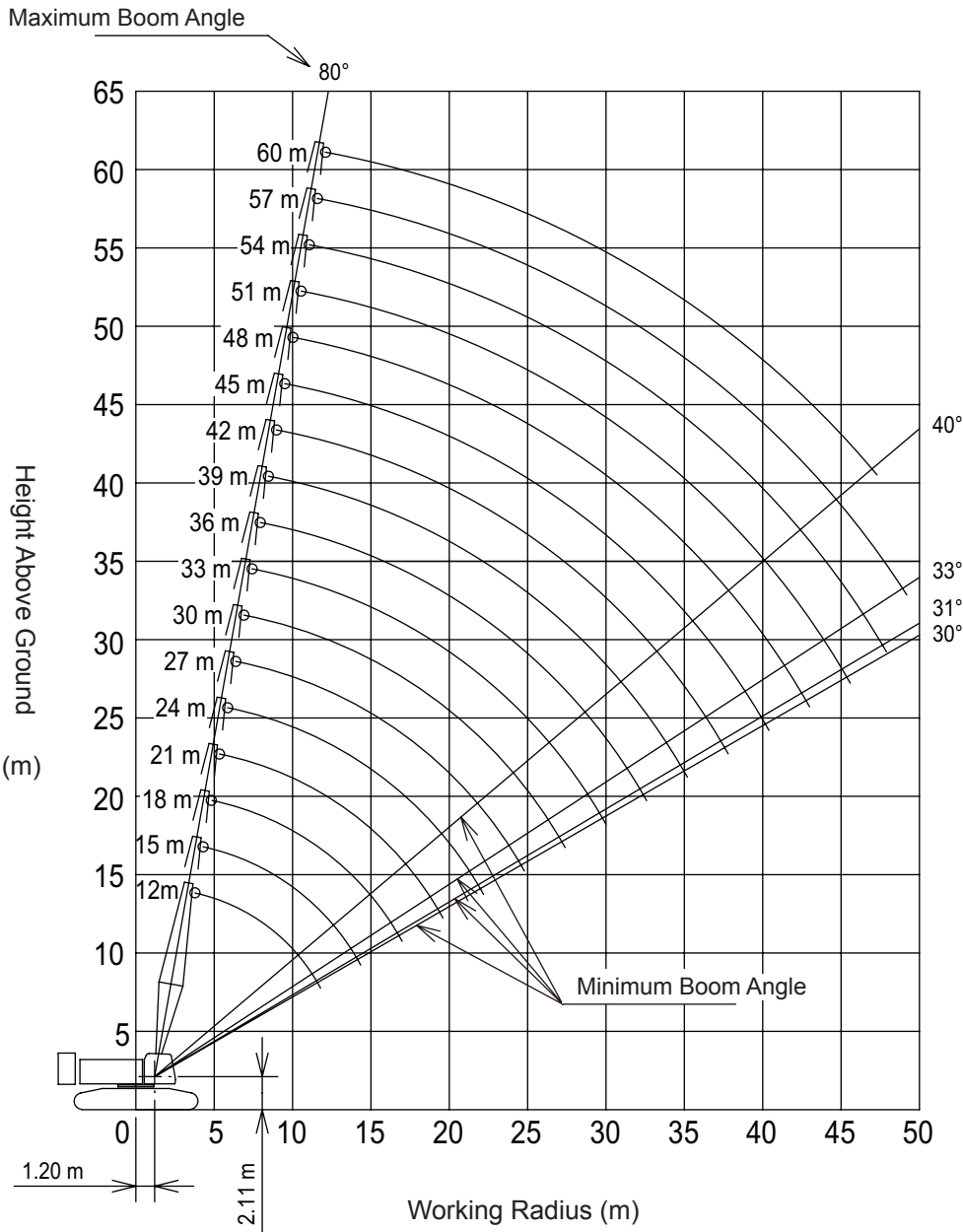
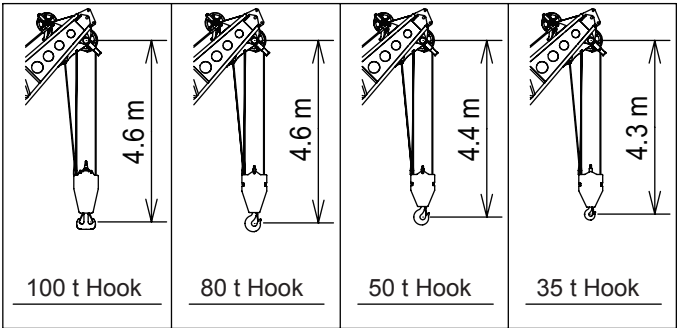
Check the pendant rope with referring to the imprints on the rope end.

Dimensions Not Shown In The Figure		Jib Pendant Rope		
Symbols	Jib Length (m)	Length (m)	Rope Diameter (mm)	Imprint
5	5	1.6	24	□ • △ • 24 • 1.6 • S
6	6	5.7	24	□ • △ • 24 • 5.7 • S
		8.3	24	□ • △ • 24 • 8.3 • S
		9.6	24	□ • △ • 24 • 9.6 • S



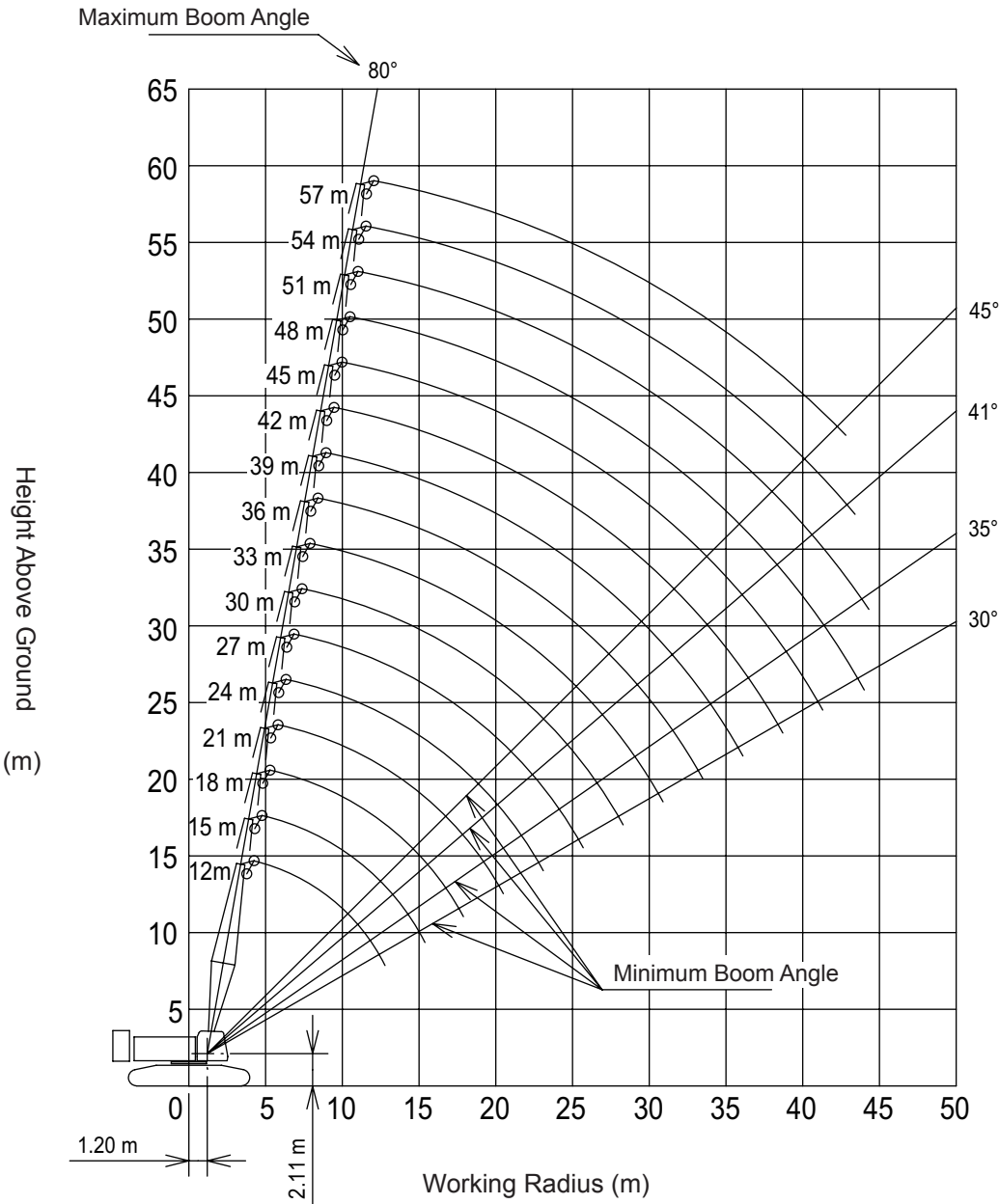
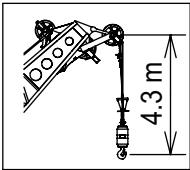
Working Ranges

■ Main Boom





■ Aux. Sheave





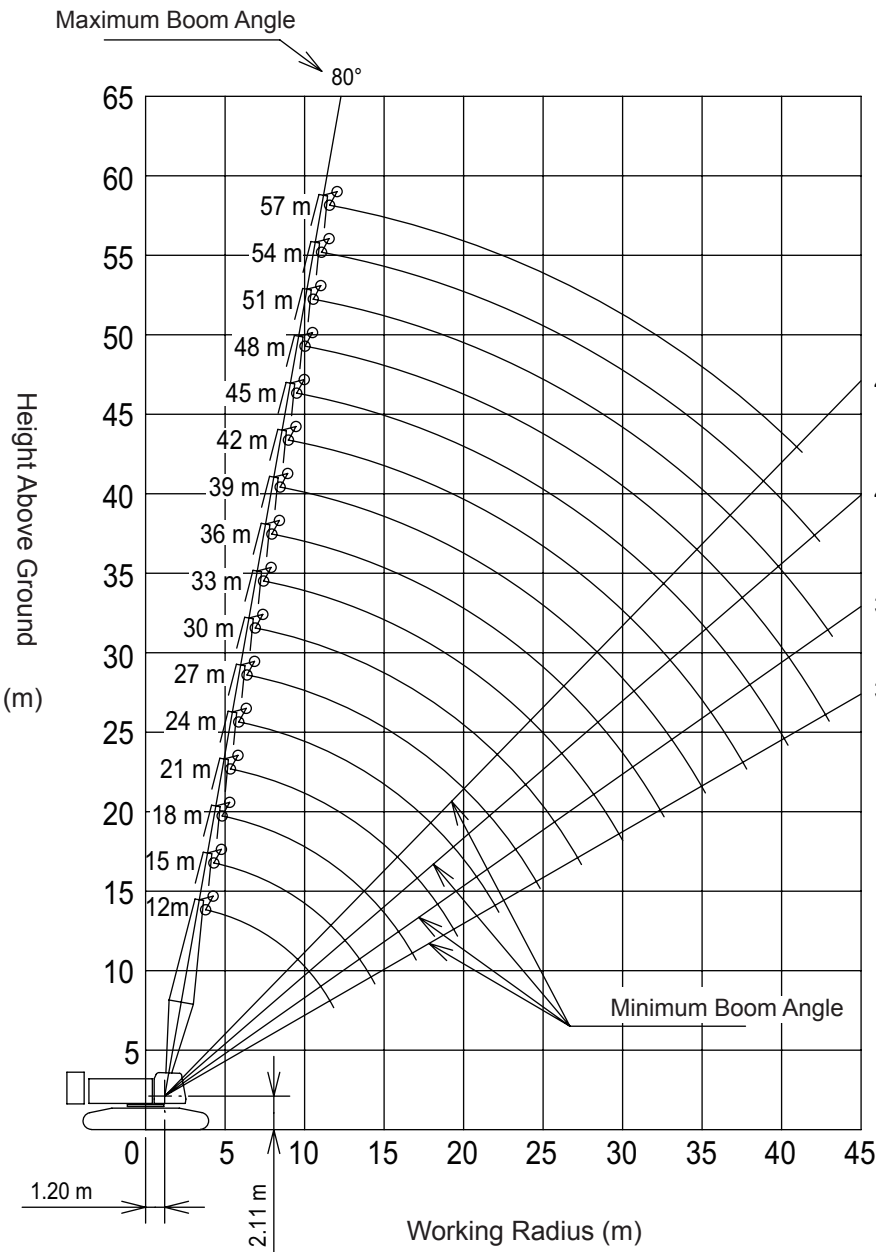
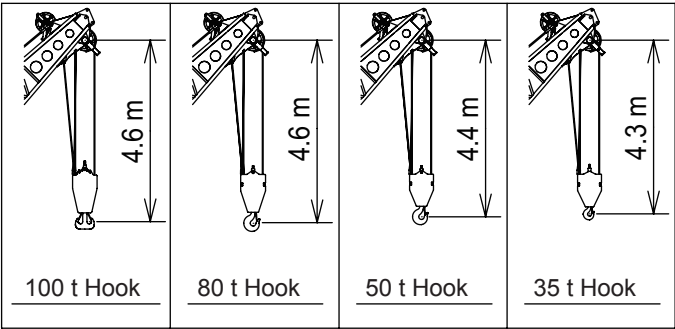
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SPECIFICATIONS

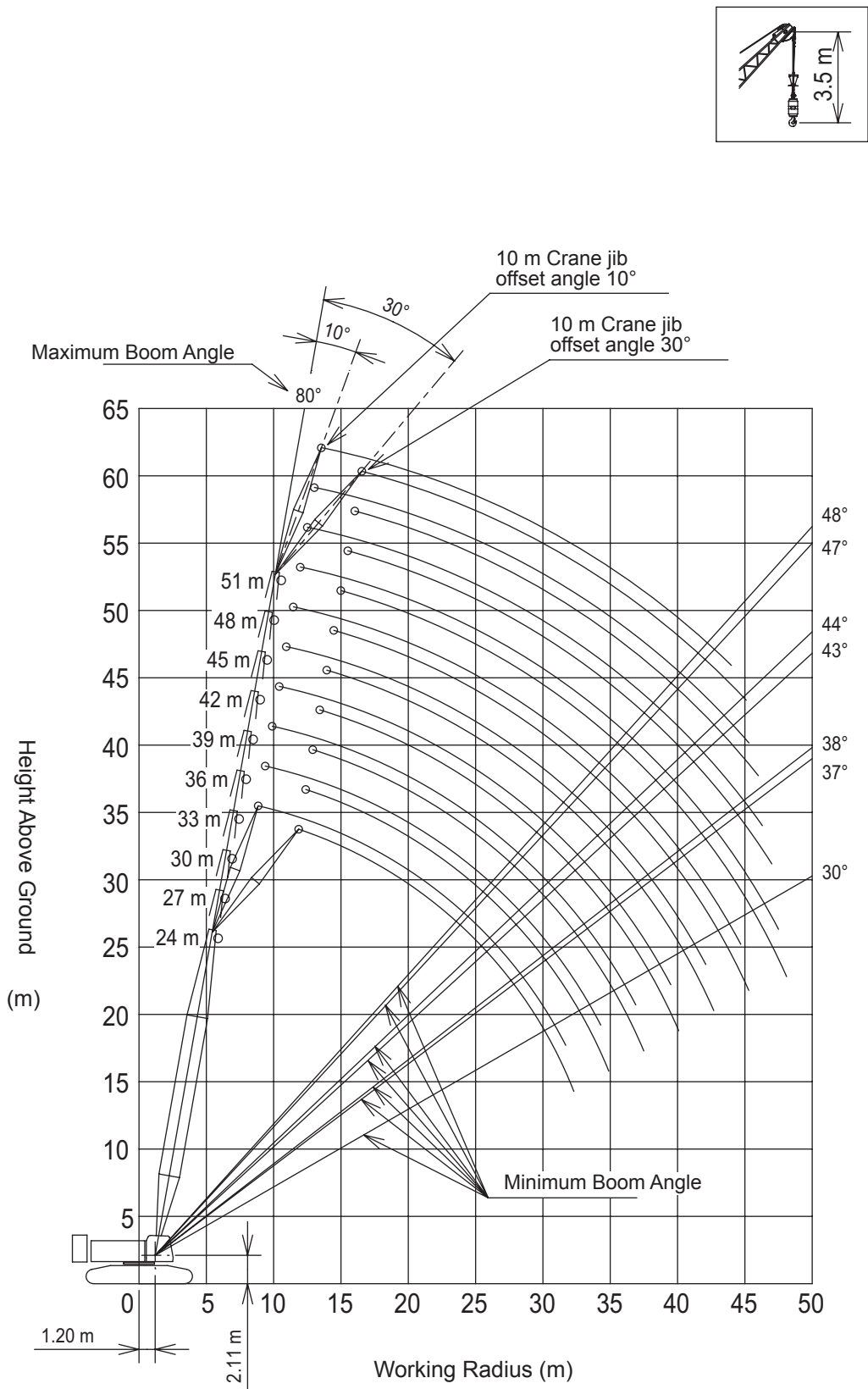
Crane Specifications

Working Ranges

■ Main Boom with Aux. Sheave



■ Main Boom with 10 m Crane Jib

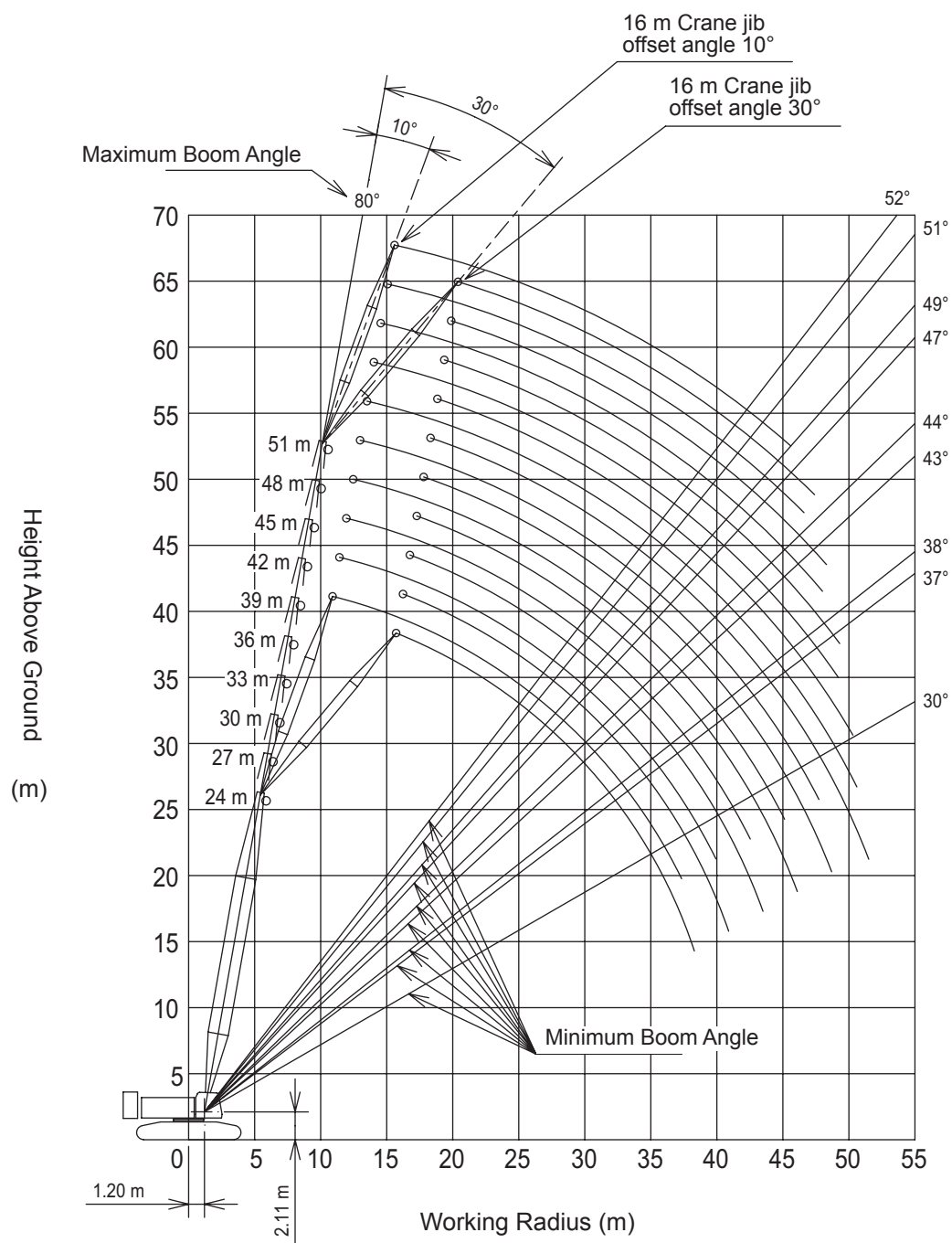
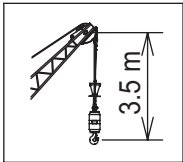


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SPECIFICATIONS

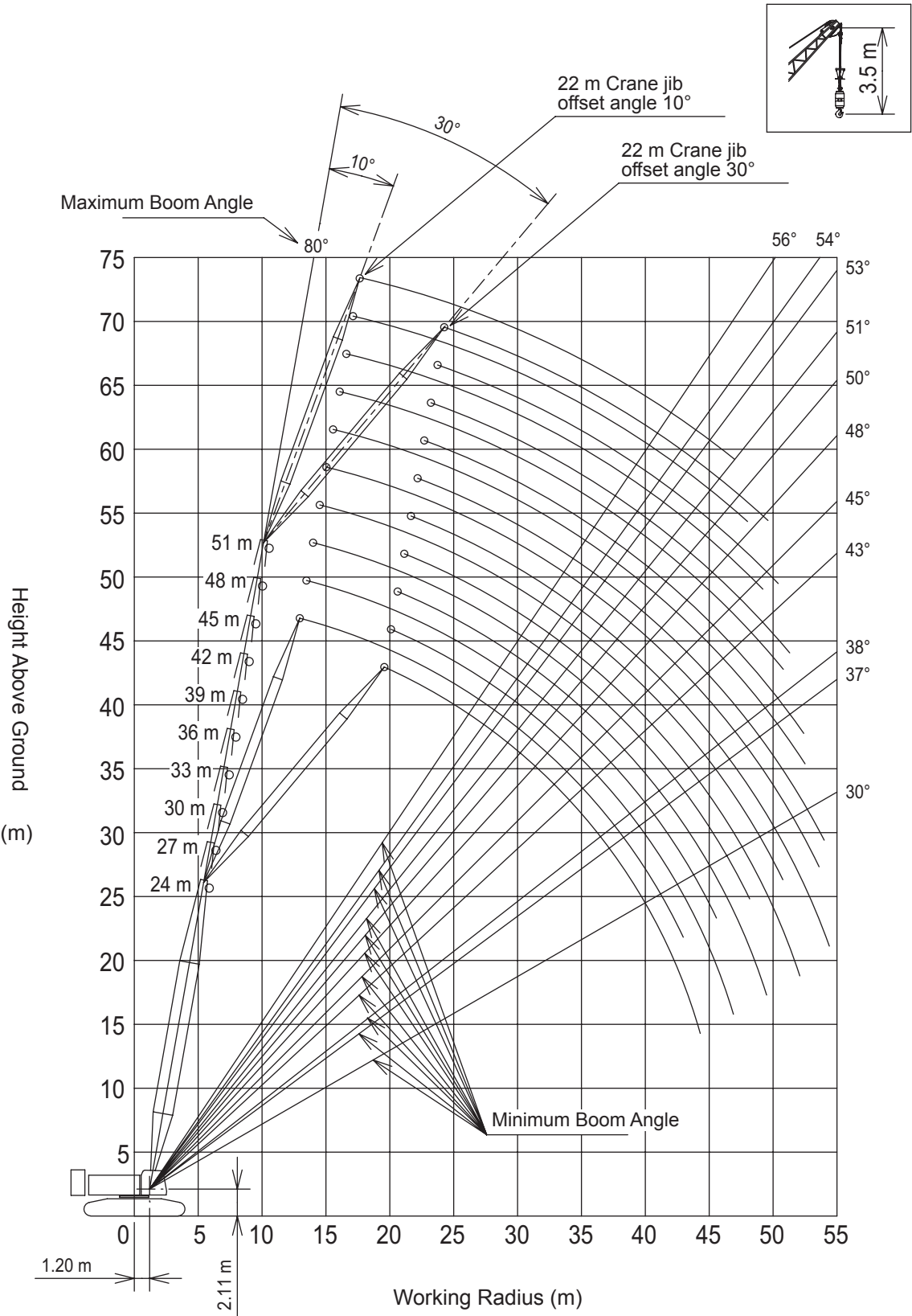
Crane Specifications
Working Ranges

■ Main Boom with 16 m Crane Jib





■ Main Boom with 22 m Crane Jib



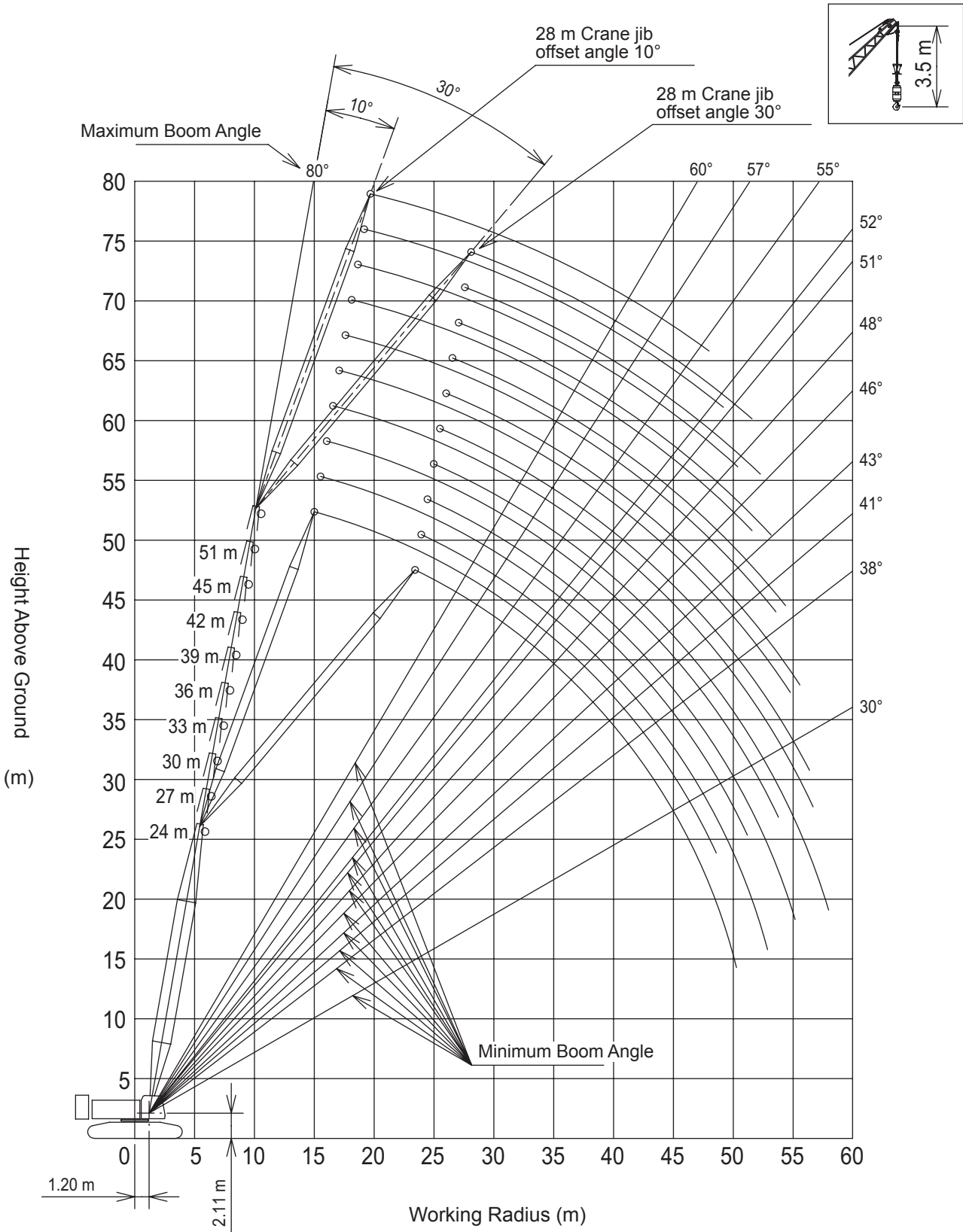


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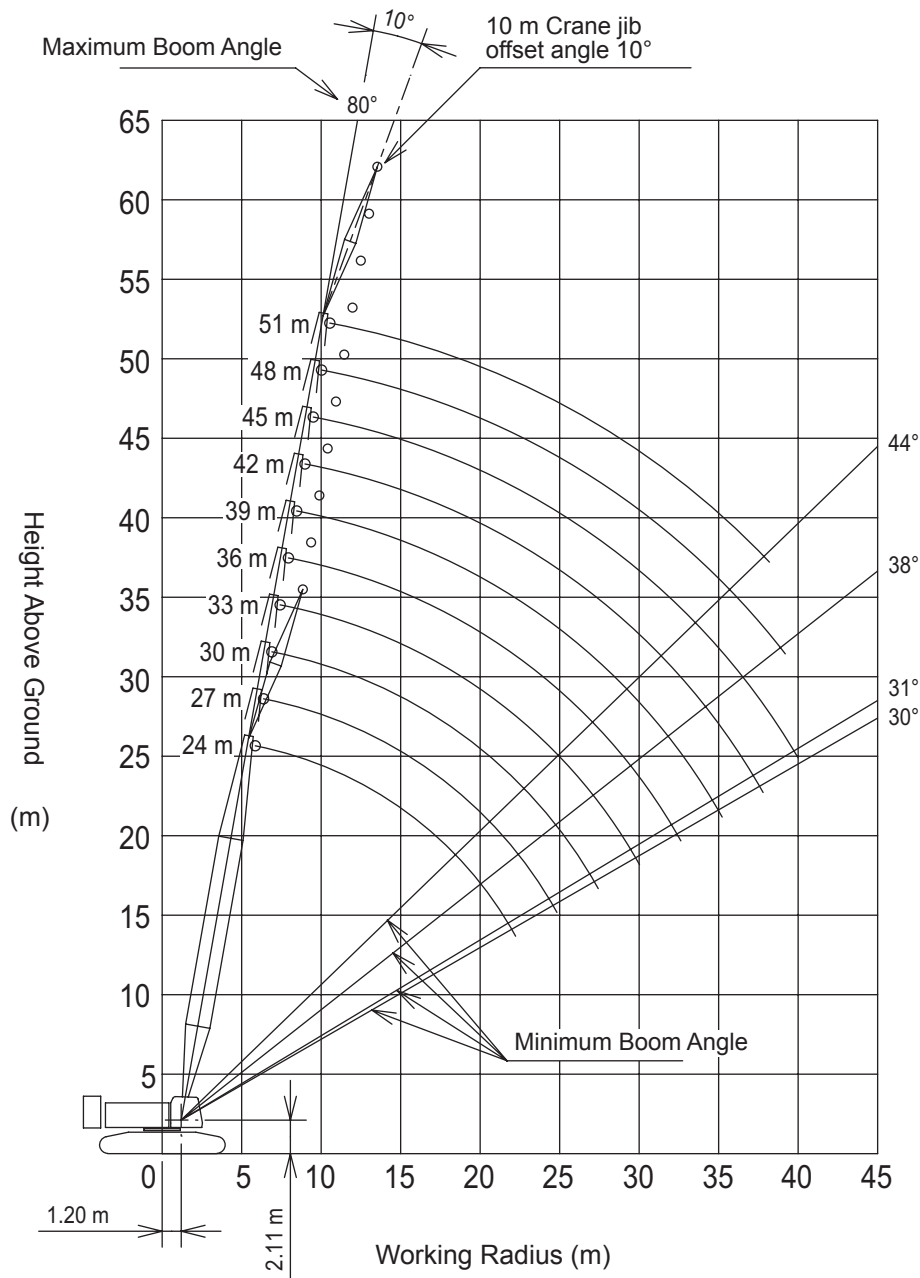
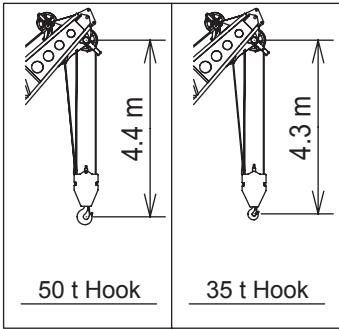
SPECIFICATIONS

Crane Specifications
Working Ranges

■ Main Boom with 28 m Crane Jib



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



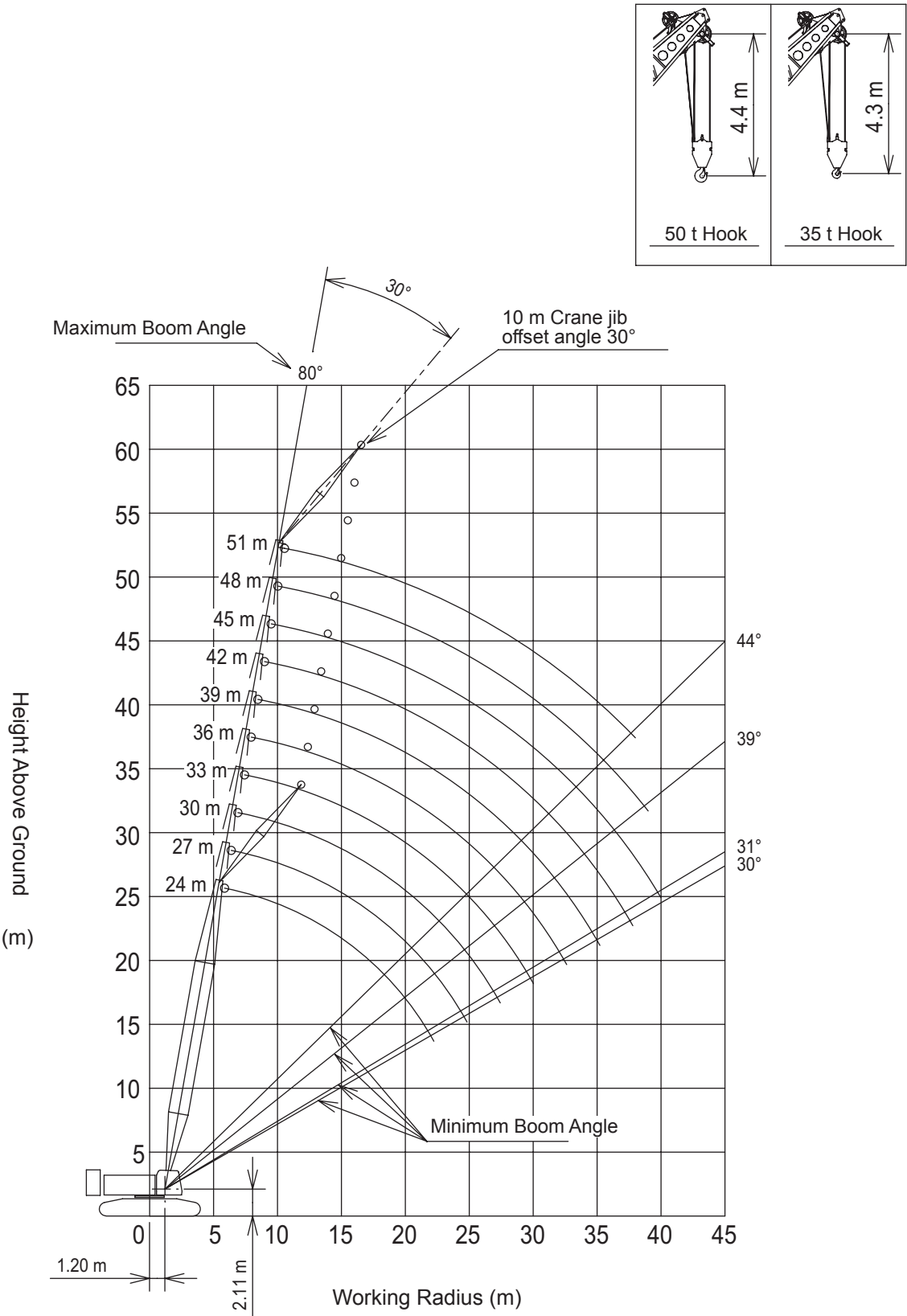


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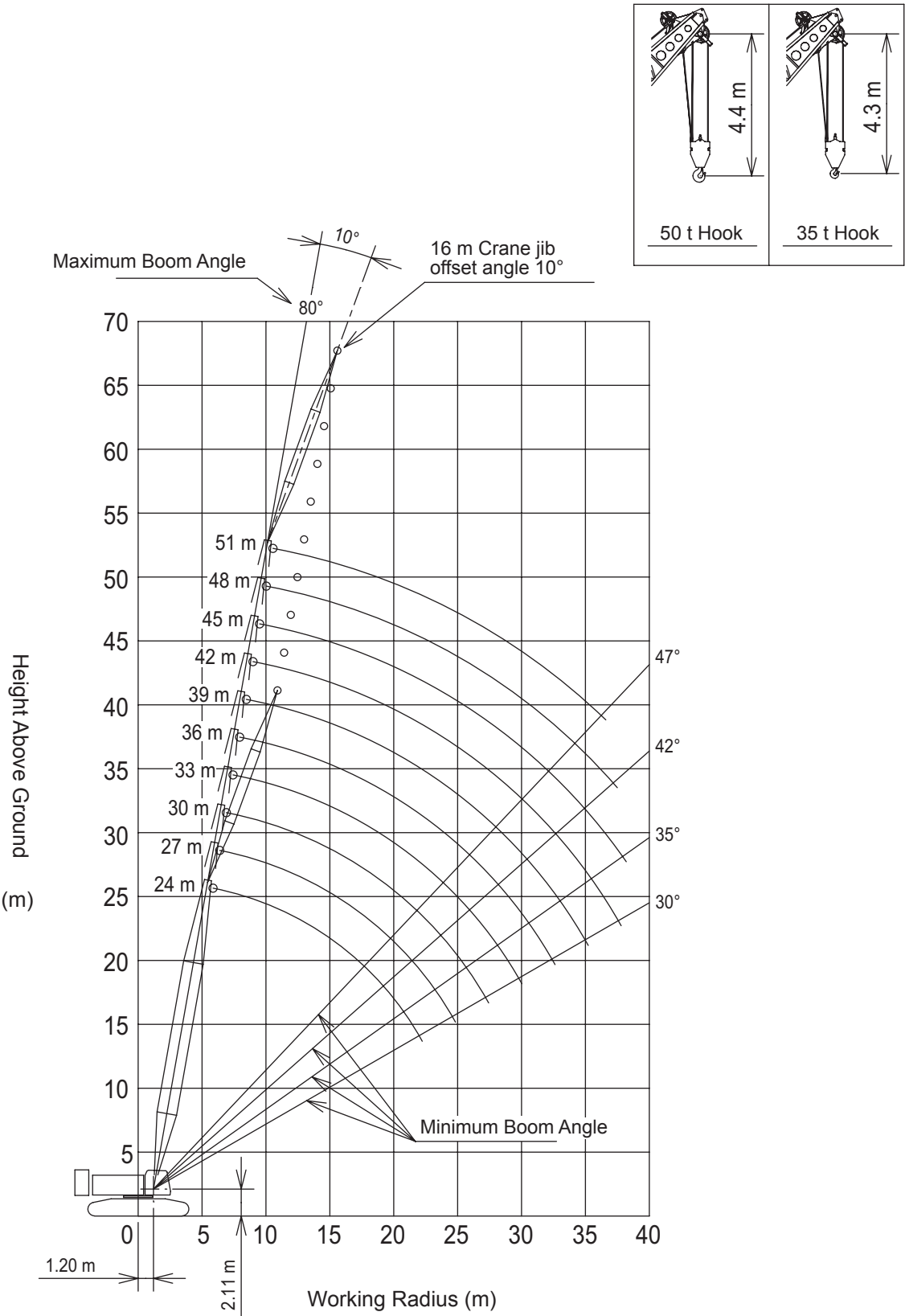
SPECIFICATIONS

Crane Specifications
Working Ranges

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



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



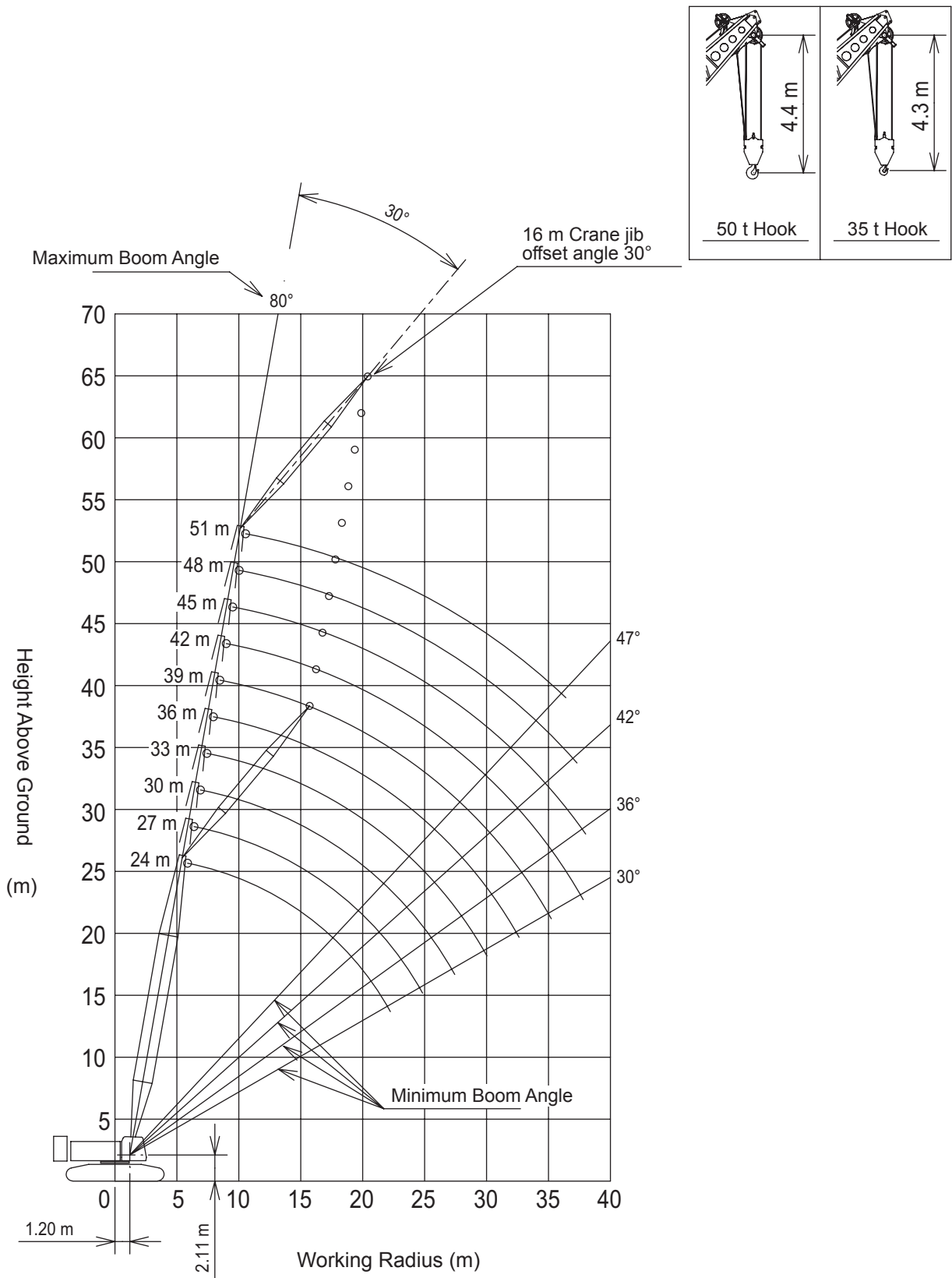


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SPECIFICATIONS

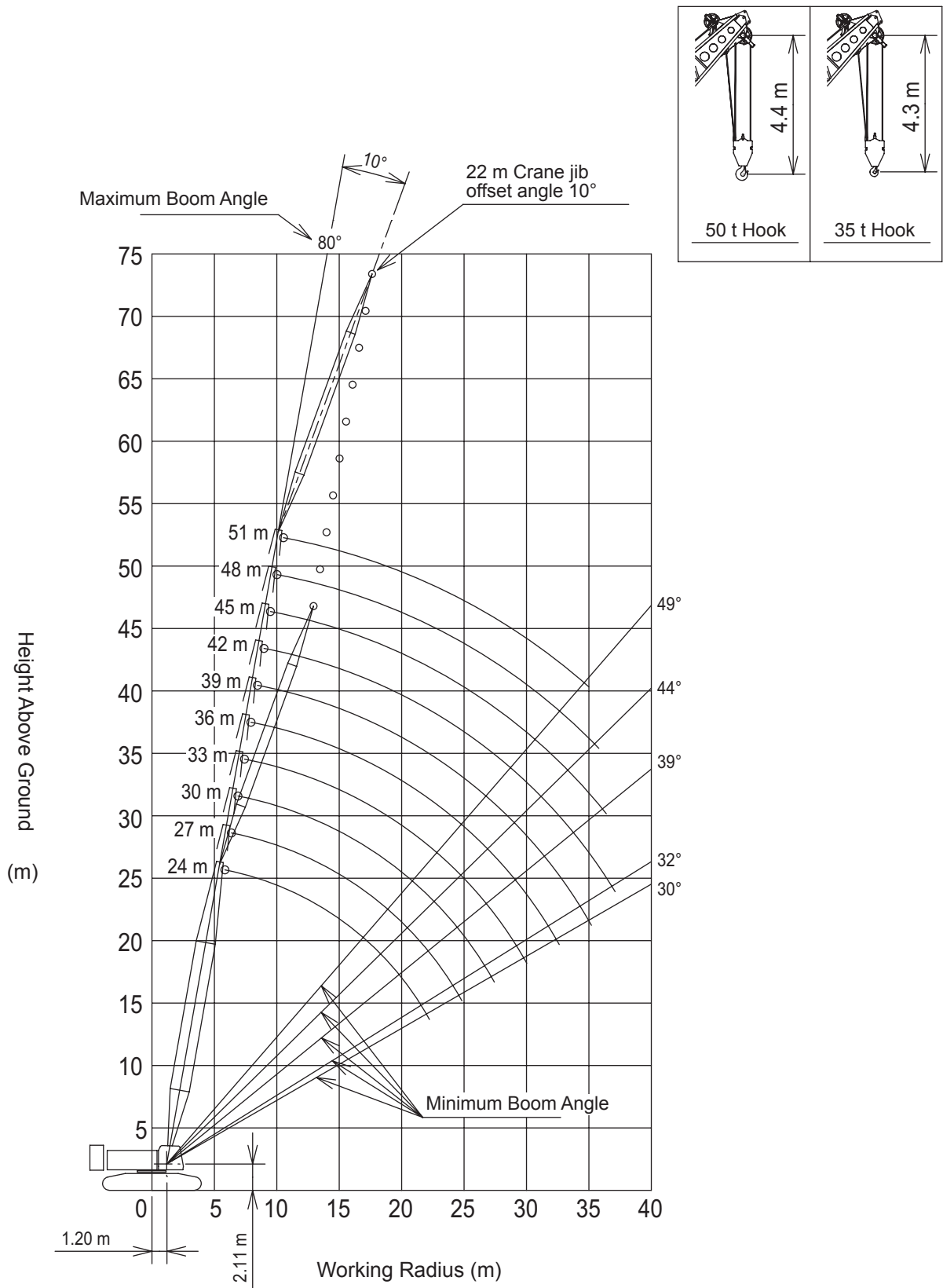
Crane Specifications
Working Ranges

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





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



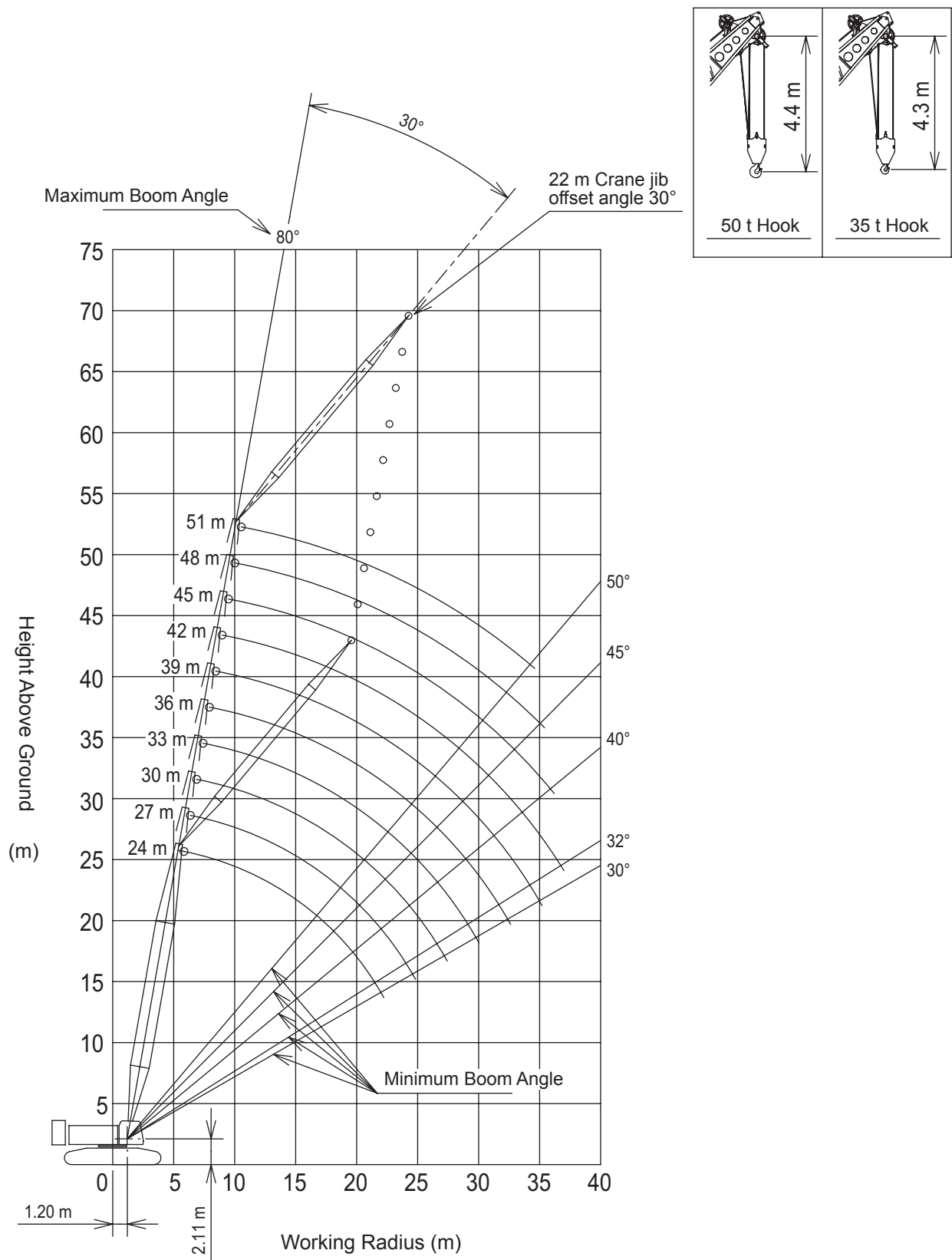


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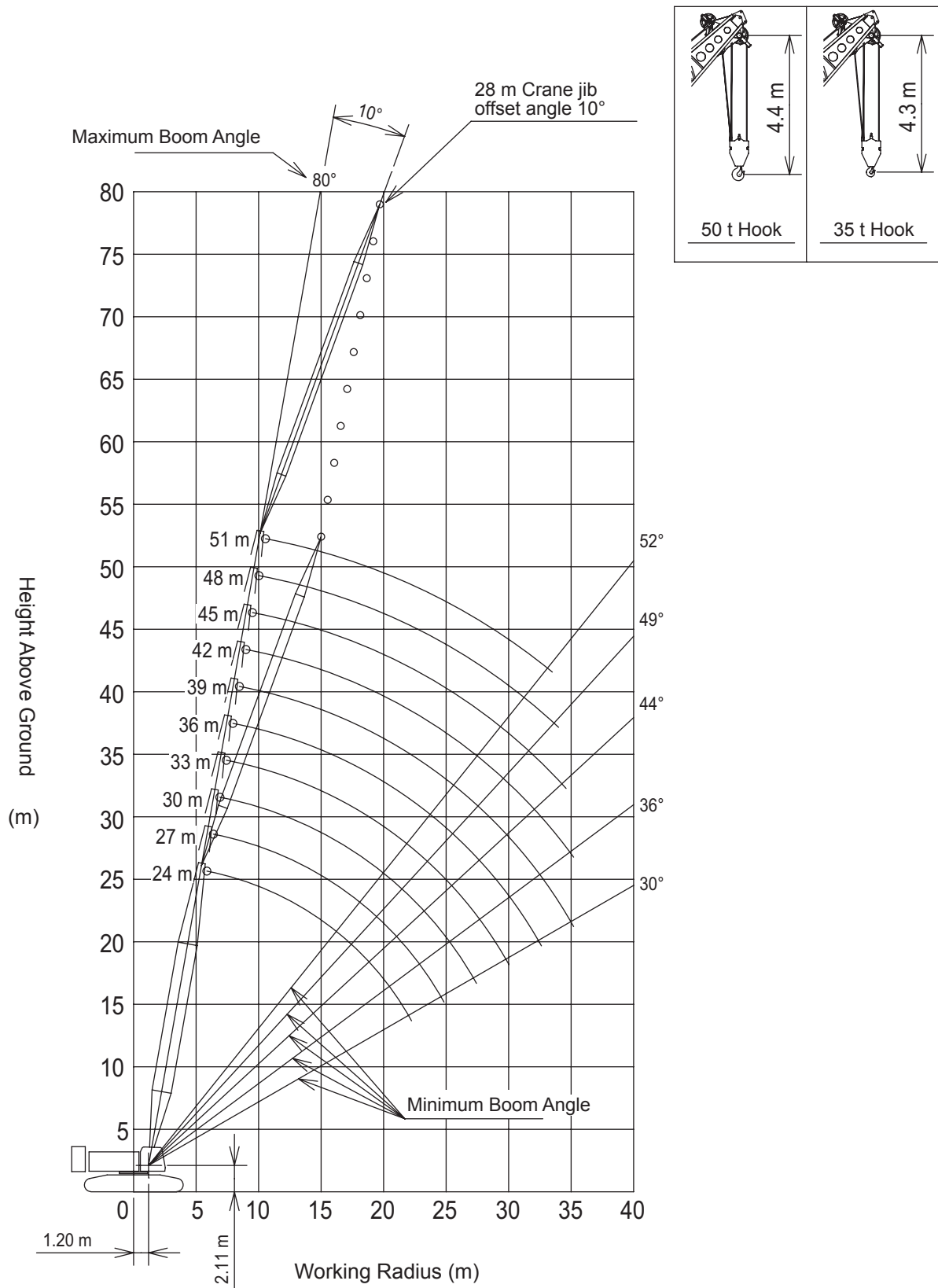
SPECIFICATIONS

Crane Specifications
Working Ranges

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



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



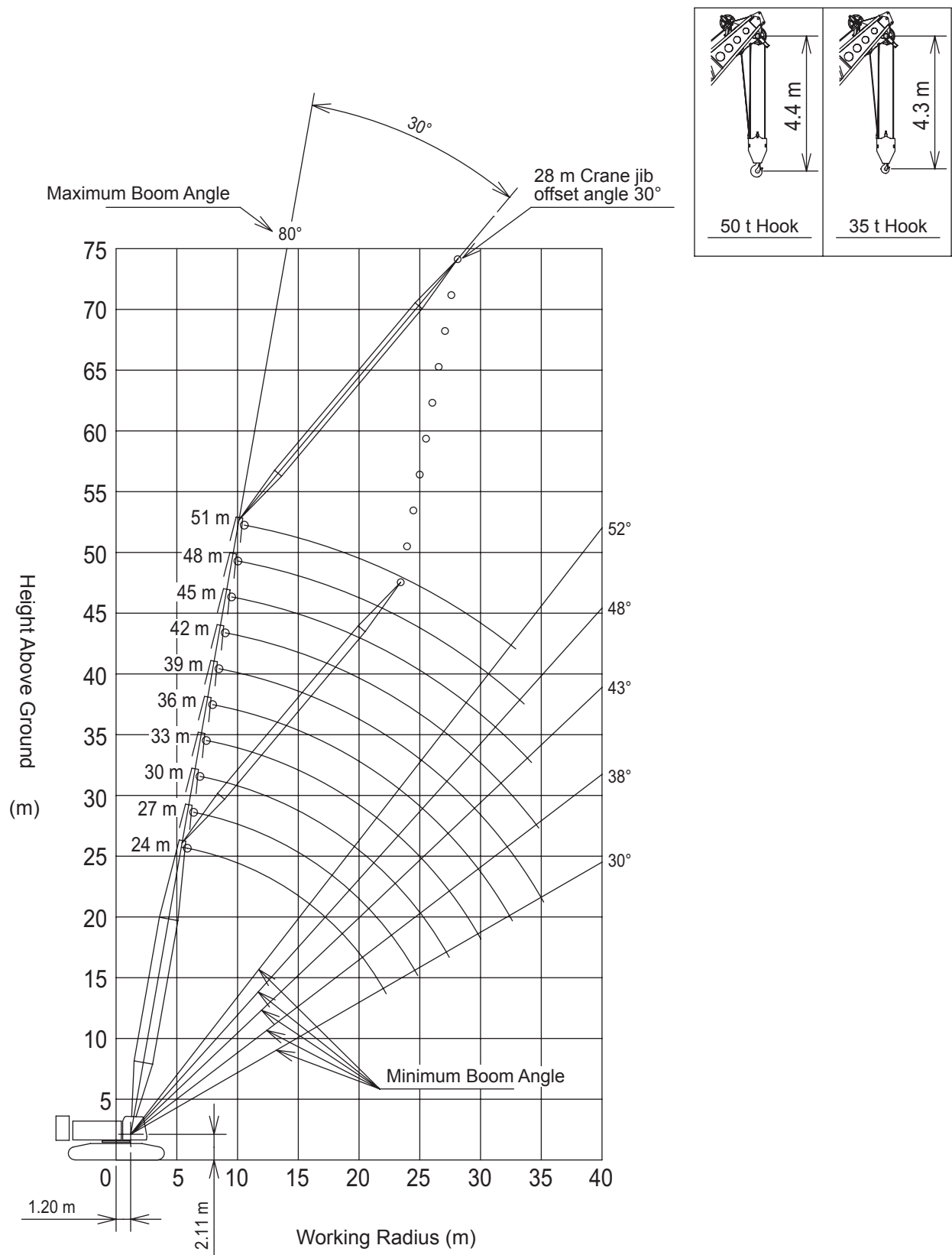


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SPECIFICATIONS

Crane Specifications
Working Ranges

■ 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 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 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



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SPECIFICATIONS

Crane Specifications
Gross Rated Load Table

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 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 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



Crane Specifications
Gross Rated Load Table

SPECIFICATIONS

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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 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 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



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SPECIFICATIONS

Crane Specifications
Gross Rated Load Table

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)	10.0	30.0	10.0	30.0	10.0	30.0	10.0	30.0	Offset Angle (deg)
Radius (m)									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)	10.0	30.0	10.0	30.0	10.0	30.0	10.0	30.0	Offset Angle (deg)
Radius (m)									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 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 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 Specifications
Gross Rated Load Table

SPECIFICATIONS

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Crane Jib



Unit: ton loads /working radius								
Boom Length (m)	30							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10.0	12.00 /10.6	11.20 /13.6	12.00 /12.7	8.80 /14.8	5.50 /16.9	3.40 /25.3	2.70 /54.1
10.0	12.00	11.20	12.00	7.95	8.80	5.50	3.40	2.70
12.0	12.00	11.05	12.00	7.85	8.80	5.50	3.40	2.70
14.0	12.00	10.50	12.00	7.45	8.80	5.50	3.40	2.70
16.0	12.00	10.00	12.00	7.10	8.80	5.50	3.40	2.70
18.0	12.00	9.55	12.00	6.80	8.80	5.50	3.40	2.70
20.0	11.10	9.20	11.40	6.55	8.80	5.50	3.40	2.70
22.0	9.75	8.85	10.05	6.30	8.80	5.50	3.40	2.70
24.0	8.65	8.55	8.95	6.05	8.80	5.50	3.40	2.70
26.0	7.75	7.95	8.00	5.80	8.80	5.50	3.40	2.70
28.0	6.95	7.15	7.20	5.55	8.80	5.50	3.40	2.70
30.0	6.30	6.40	6.50	5.30	8.80	5.50	3.40	2.70
32.0	5.70	5.80	5.90	5.05	8.80	5.50	3.40	2.70
34.0	5.15	5.25	5.40	4.80	8.80	5.50	3.40	2.70
36.0	4.90	4.80	4.90	4.55	8.80	5.50	3.40	2.70
38.0			4.50	4.30	8.80	5.50	3.40	2.70
40.0			4.15	4.05	8.80	5.50	3.40	2.70
42.0			4.00	3.95	8.80	5.50	3.40	2.70
44.0				3.90	8.80	5.50	3.40	2.70
46.0				3.60	8.80	5.50	3.40	2.70
48.0				3.35	8.80	5.50	3.40	2.70
50.0				3.30	8.80	5.50	3.40	2.70
52.0					8.80	5.50	3.40	2.70
54.0						8.80	5.50	2.70
56.0							8.80	2.70

Unit: ton loads /working radius								
Boom Length (m)	33							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10.0	12.00 /11.1	11.20 /13.2	8.80 /15.3	5.50 /17.4	3.40 /25.8	2.70 /54.7	2.20 /58.0
10.0	12.00	11.20	12.00	7.95	8.80	5.50	3.40	2.20
12.0	12.00	10.65	12.00	7.85	8.80	5.50	3.40	2.20
14.0	12.00	10.20	12.00	7.45	8.80	5.50	3.40	2.20
16.0	12.00	9.75	12.00	7.10	8.80	5.50	3.40	2.20
18.0	12.00	9.40	12.00	6.80	8.80	5.50	3.40	2.20
20.0	10.90	9.05	11.25	6.55	8.80	5.50	3.40	2.20
22.0	9.60	8.75	10.90	6.30	8.80	5.50	3.40	2.20
24.0	8.50	8.55	10.65	6.05	8.80	5.50	3.40	2.20
26.0	7.55	8.40	10.40	5.80	8.80	5.50	3.40	2.20
28.0	6.75	8.25	10.15	5.55	8.80	5.50	3.40	2.20
30.0	6.05	8.10	9.90	5.30	8.80	5.50	3.40	2.20
32.0	5.45	7.95	9.65	5.05	8.80	5.50	3.40	2.20
34.0	4.95	7.80	9.40	4.80	8.80	5.50	3.40	2.20
36.0	4.50	7.65	9.15	4.55	8.80	5.50	3.40	2.20
38.0	4.10	7.50	8.90	4.30	8.80	5.50	3.40	2.20
40.0		7.35	8.65	4.05	8.80	5.50	3.40	2.20
42.0		7.20	8.40	3.80	8.80	5.50	3.40	2.20
44.0		7.05	8.15	3.55	8.80	5.50	3.40	2.20
46.0		6.90	7.90	3.30	8.80	5.50	3.40	2.20
48.0		6.75	7.65	3.05	8.80	5.50	3.40	2.20
50.0		6.60	7.40	2.80	8.80	5.50	3.40	2.20
52.0		6.45	7.15	2.55	8.80	5.50	3.40	2.20
54.0		6.30	6.90	2.30	8.80	5.50	3.40	2.20
56.0		6.15	6.65	2.05	8.80	5.50	3.40	2.20
58.0		6.00	6.40	1.80	8.80	5.50	3.40	2.20

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 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



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Crane Specifications

Gross Rated Load Table

Crane Jib



Unit: ton loads /working radius								
Boom Length (m)	36							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10	30	10	30	10	30	10	30
11.7	12.00							
12.0	12.00		12.00 /13.8					
14.0	12.00	11.15 /14.7	12.00		8.80 /15.9			
16.0	12.00	10.80	12.00		8.80			
18.0	12.00	10.35	12.00	7.90 /18.6	8.80		5.50	
20.0	12.00	9.95	12.00	7.65	8.80		5.50	
22.0	10.65	9.55	11.00	7.35	8.80	5.95 /22.5	5.50	
24.0	9.35	9.20	9.65	7.05	8.80	5.75	5.50	
26.0	8.25	8.55	8.55	6.80	8.80	5.55	5.50	3.40 /26.4
28.0	7.30	7.60	7.60	6.55	7.85	5.30	5.50	3.40
30.0	6.50	6.75	6.80	6.30	7.00	5.10	5.50	3.40
32.0	5.80	6.00	6.10	6.10	6.30	4.95	5.50	3.40
34.0	5.20	5.40	5.50	5.80	5.70	4.75	5.35	3.40
36.0	4.70	4.85	4.95	5.25	5.15	4.60	5.15	3.40
38.0	4.20	4.35	4.45	4.75	4.65	4.50	4.80	3.40
40.0	3.80	3.90	4.05	4.25	4.25	4.35	4.35	3.40
42.0	3.45	3.50	3.65	3.85	3.85	4.15	4.00	3.40
44.0	3.40 /42.3	3.35 /42.9	3.30	3.45	3.50	3.75	3.65	3.35
46.0			3.00	3.15	3.20	3.40	3.30	3.30
48.0			2.70	2.80	2.90	3.10	3.00	3.20
50.0				2.70 /48.9	2.65	2.80	2.75	3.05
52.0					2.40	2.50	2.50	2.75
54.0					2.20 /53.6	2.25	2.30	2.50
56.0						2.20 /54.4	2.20 /54.8	2.25
56.4							2.20	2.20

Unit: ton loads /working radius								
Boom Length (m)	39							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10	30	10	30	10	30	10	30
12.0	12.00 /12.2							
14.0	12.00	11.15 /15.2	12.00 /14.3					
16.0	12.00	10.95	12.00		8.80 /16.4			
18.0	12.00	10.50	12.00	7.90 /19.1	8.80		5.50 /18.5	
20.0	12.00	10.10	12.00	7.75	8.80		5.50	
22.0	10.60	9.70	10.90	7.45	8.80	5.95 /23.0	5.50	
24.0	9.25	9.40	9.60	7.15	8.80	5.85	5.50	
26.0	8.15	8.50	8.45	6.90	8.70	5.60	5.50	3.40 /26.9
28.0	7.20	7.50	7.50	6.65	7.75	5.40	5.50	3.40
30.0	6.40	6.70	6.70	6.45	6.90	5.20	5.50	3.40
32.0	5.70	5.95	6.00	6.25	6.20	5.00	5.50	3.40
34.0	5.10	5.30	5.40	5.75	5.60	4.85	5.50	3.40
36.0	4.60	4.75	4.85	5.15	5.05	4.70	5.20	3.40
38.0	4.10	4.25	4.35	4.65	4.55	4.55	4.70	3.40
40.0	3.70	3.80	3.95	4.20	4.10	4.45	4.25	3.40
42.0	3.30	3.40	3.55	3.75	3.75	4.10	3.85	3.40
44.0	3.00	3.05	3.20	3.40	3.40	3.70	3.50	3.40
46.0	2.85 /44.9	2.80 /45.5	2.90	3.05	3.05	3.35	3.20	3.35
48.0			2.60	2.75	2.75	3.00	2.90	3.25
50.0			2.35	2.45	2.50	2.70	2.65	2.95
52.0			2.30 /50.6	2.25 /51.5	2.25	2.45	2.40	2.65
54.0					2.20 /52.5	2.20	2.20 /53.6	2.40
56.0							2.20 /55.6	2.40

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 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 Specifications
Gross Rated Load Table

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Crane Jib



Unit: ton loads / working radius								
Boom Length (m)	42							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10	30	10	30	10	30	10	30
12.0	12.00 / 12.8							
14.0	12.00	11.10 / 15.8	12.00 / 14.9					
16.0	12.00	11.05	12.00		8.80 / 17.0			
18.0	12.00	10.60	12.00	7.85 / 19.7	8.80		5.50 / 19.1	
20.0	12.00	10.25	12.00	7.85	8.80		5.50	
22.0	10.35	9.85	10.70	7.50	8.80	5.95 / 23.6	5.50	
24.0	9.00	9.45	9.35	7.25	8.80	5.90	5.50	
26.0	7.90	8.30	8.25	7.00	8.50	5.65	5.50	3.40 / 27.5
28.0	6.95	7.30	7.30	6.75	7.55	5.45	5.50	3.40
30.0	6.15	6.45	6.45	6.55	6.70	5.25	5.50	3.40
32.0	5.50	5.75	5.75	6.20	6.00	5.10	5.50	3.40
34.0	4.85	5.10	5.15	5.55	5.35	4.90	5.50	3.40
36.0	4.35	4.55	4.60	5.00	4.80	4.75	5.00	3.40
38.0	3.85	4.05	4.15	4.45	4.35	4.65	4.50	3.40
40.0	3.45	3.60	3.70	4.00	3.90	4.35	4.05	3.40
42.0	3.05	3.20	3.30	3.55	3.50	3.90	3.65	3.40
44.0	2.75	2.80	2.95	3.20	3.15	3.50	3.30	3.40
46.0	2.45	2.50	2.65	2.85	2.85	3.15	3.00	3.40
48.0	2.20 / 47.5	2.20	2.35	2.50	2.55	2.85	2.70	3.10
50.0		2.20 / 48.1	2.20 / 49.2	2.25	2.30	2.50	2.40	2.80
52.0				2.20 / 50.3	2.20 / 50.8	2.25	2.20 / 51.6	2.50
54.0						2.20 / 52.4		2.25
54.4							2.20	2.20

Unit: ton loads / working radius								
Boom Length (m)	45							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10	30	10	30	10	30	10	30
12.0	12.00 / 13.3							
14.0	12.00		12.00 / 15.4					
16.0	12.00	11.10 / 16.3	12.00		8.80 / 17.5			
18.0	12.00	10.75	12.00		8.80		5.50 / 19.6	
20.0	11.85	10.35	12.00	7.85 / 20.2	8.80		5.50	
22.0	10.20	10.00	10.55	7.60	8.80		5.50	
24.0	8.85	9.35	9.20	7.35	8.80	5.95 / 24.1	5.50	
26.0	7.75	8.15	8.10	7.10	8.35	5.70	5.50	
28.0	6.80	7.15	7.10	6.85	7.40	5.50	5.50	3.40
30.0	6.00	6.35	6.30	6.65	6.55	5.35	5.50	3.40
32.0	5.30	5.60	5.60	6.10	5.85	5.15	5.50	3.40
34.0	4.70	4.95	5.00	5.45	5.20	5.00	5.40	3.40
36.0	4.15	4.40	4.45	4.85	4.65	4.85	4.85	3.40
38.0	3.70	3.90	3.95	4.30	4.15	4.70	4.35	3.40
40.0	3.25	3.45	3.55	3.85	3.75	4.20	3.90	3.40
42.0	2.90	3.05	3.15	3.40	3.35	3.75	3.50	3.40
44.0	2.55	2.65	2.80	3.05	3.00	3.40	3.15	3.40
46.0	2.25	2.35	2.50	2.70	2.65	3.00	2.80	3.30
48.0	2.20 / 46.3	2.20 / 47.0	2.20	2.40	2.35	2.70	2.50	2.95
50.0				2.20 / 49.3	2.20 / 49.2	2.40	2.25	2.65
52.0						2.20 / 51.3	2.20 / 50.4	2.35
54.0							2.20 / 53.2	2.20

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 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



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Gross Rated Load Table

Crane Jib



Unit: ton loads /working radius								
Boom Length (m)	48							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10	30	10	30	10	30	10	30
13.9	12.00							
14.0	12.00							
16.0	12.00	11.05 /16.9	12.00					
18.0	12.00	10.85	12.00		8.80 /18.1			
20.0	11.70	10.45	12.00	7.85 /20.8	8.80		5.50 /20.2	
22.0	10.05	10.15	10.40	7.70	8.80		5.50	
24.0	8.70	9.20	9.05	7.40	8.80	5.90 /24.6	5.50	
26.0	7.60	8.05	7.90	7.15	8.20	5.75	5.50	
28.0	6.65	7.05	6.95	6.95	7.25	5.55	5.50	3.40 /28.5
30.0	5.85	6.20	6.15	6.75	6.40	5.40	5.50	3.40
32.0	5.15	5.45	5.45	5.95	5.70	5.20	5.50	3.40
34.0	4.55	4.80	4.80	5.30	5.05	5.05	5.25	3.40
36.0	4.00	4.25	4.30	4.70	4.50	4.90	4.70	3.40
38.0	3.55	3.75	3.80	4.20	4.00	4.55	4.20	3.40
40.0	3.10	3.30	3.35	3.70	3.55	4.10	3.75	3.40
42.0	2.70	2.90	3.00	3.30	3.20	3.65	3.35	3.40
44.0	2.40	2.50	2.65	2.90	2.80	3.25	3.00	3.40
46.0	2.20 /45.3	2.20	2.30	2.55	2.50	2.90	2.65	3.20
48.0			2.20 /46.6	2.25	2.20	2.55	2.35	2.85
50.0				2.20 /48.3		2.25	2.20 /49.2	2.55
52.0						2.20 /50.4		2.25
52.3							2.20	2.20

Unit: ton loads /working radius								
Boom Length (m)	51							
Jib Length (m)	10		16		22		28	
Offset Angle (deg)	10	30	10	30	10	30	10	30
Radius (m)	10	30	10	30	10	30	10	30
14.0	12.00 /14.4							
16.0	12.00	11.05 /17.4	12.00 /16.5					
18.0	12.00	10.95	12.00		8.80 /18.6			
20.0	11.40	10.60	11.75	7.85 /21.3	8.80		5.50 /20.7	
22.0	9.90	10.25	10.30	7.75	8.80		5.50	
24.0	8.60	9.10	8.95	7.50	8.80	5.90 /25.2	5.50	
26.0	7.45	7.95	7.80	7.25	8.05	5.80	5.50	
28.0	6.50	6.95	6.85	7.00	7.10	5.65	5.50	3.40 /29.1
30.0	5.70	6.10	6.00	6.65	6.25	5.45	5.50	3.40
32.0	5.00	5.35	5.30	5.85	5.55	5.30	5.50	3.40
34.0	4.40	4.70	4.70	5.20	4.90	5.10	5.10	3.40
36.0	3.85	4.10	4.15	4.60	4.35	5.00	4.55	3.40
38.0	3.35	3.60	3.65	4.05	3.85	4.45	4.05	3.40
40.0	2.95	3.15	3.20	3.60	3.45	4.00	3.60	3.40
42.0	2.55	2.75	2.85	3.15	3.05	3.55	3.20	3.40
44.0	2.20	2.40	2.45	2.80	2.70	3.15	2.85	3.40
46.0		2.20 /45.1	2.20 /45.6	2.45	2.35	2.75	2.50	3.05
48.0				2.20 /47.4	2.20 /47.0	2.45	2.20	2.75
50.0						2.20 /49.6		2.40
52.0							2.20 /51.6	2.20

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 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

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 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



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SPECIFICATIONS

Crane Specifications
Gross Rated Load Table

■ 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)	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)
Jib Length (m)	10		16		22		28		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 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 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 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



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SPECIFICATIONS

Crane Specifications
Gross Rated Load Table

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 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 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 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 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



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SPECIFICATIONS

Crane Specifications
Gross Rated Load Table

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 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 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 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

Dimensions and Specifications



■ Specifications

■ Clamshell Bucket

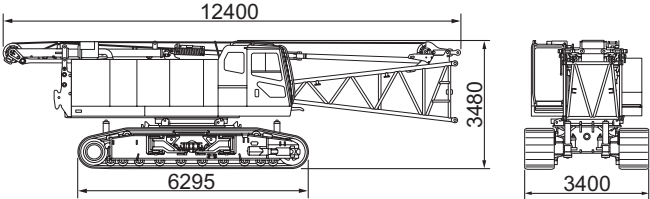
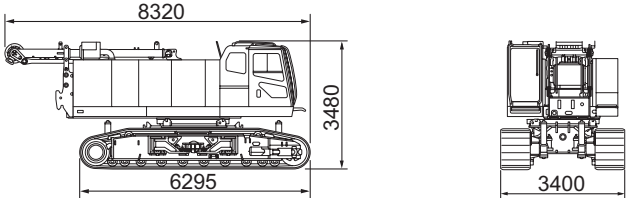
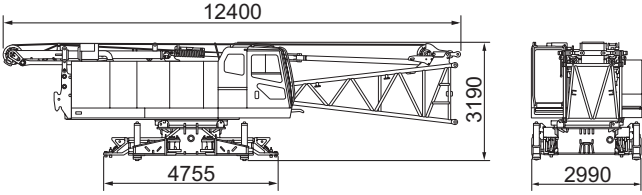
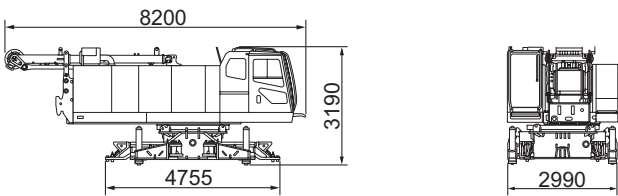
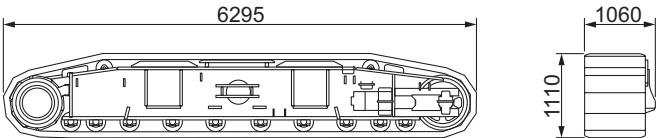
■ Gross Rated Load Table

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

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		52200
Base Crane with: Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Crawlers Jack Without: Floats	1		50000
Base Crane with: Boom Base Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Jack Without: Floats	1		33100
Base Crane with: Front Winch Wire Rope Rear Winch Wire Rope Boom Hoist Winch Wire Rope Jack Without: Floats	1		30900
Crawler	2		9600

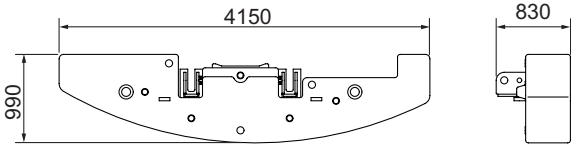
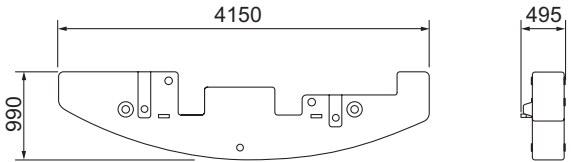
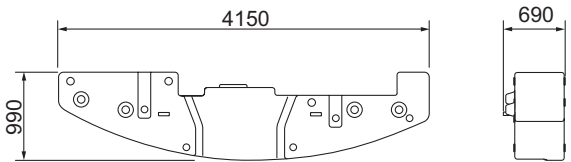
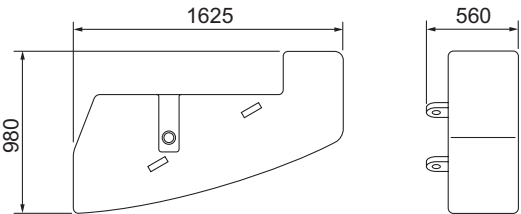
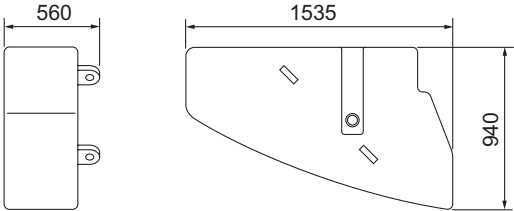
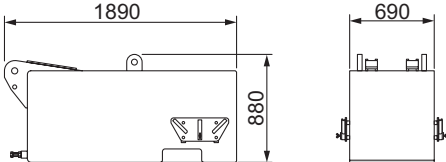
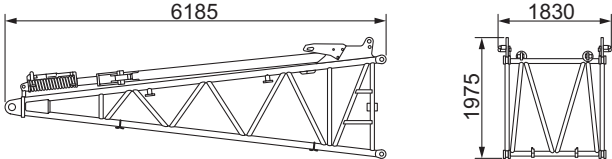


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TECHNICAL DATA

Weights and Dimensions of Disassembled Units

Weights and Dimensions List

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

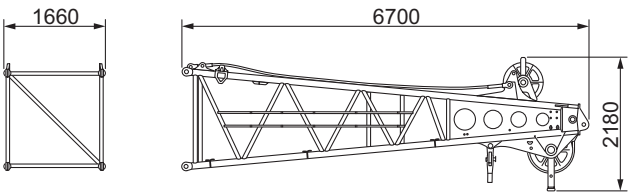
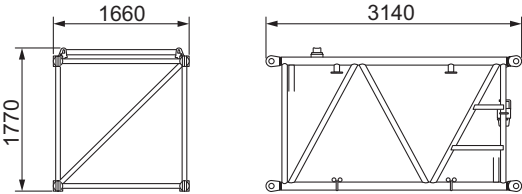
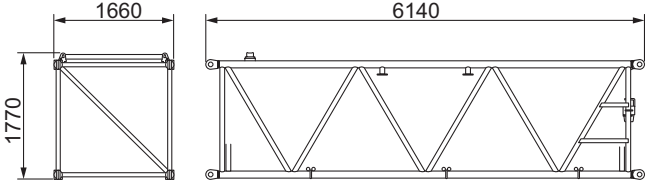
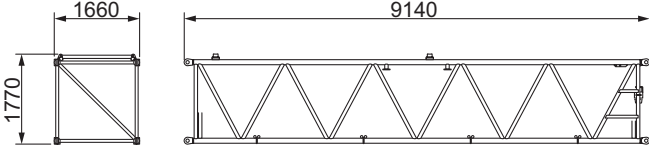
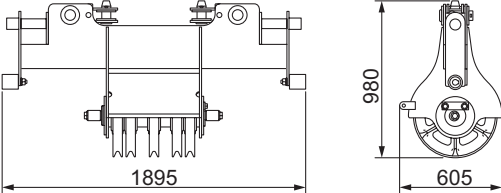
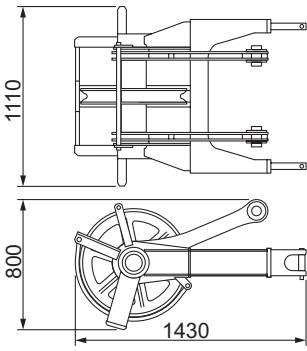


Weights and Dimensions of Disassembled Units

Weights and Dimensions List

TECHNICAL DATA

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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

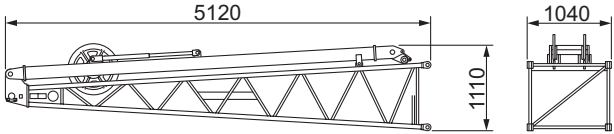
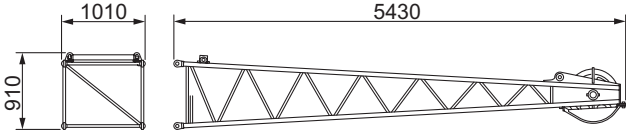
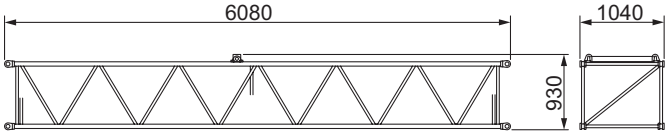
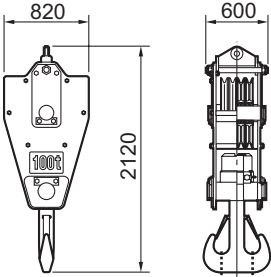
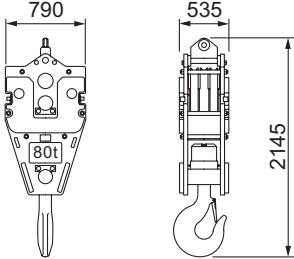
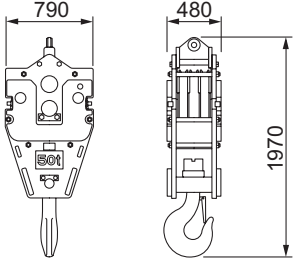


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TECHNICAL DATA

Weights and Dimensions of Disassembled Units

Weights and Dimensions List

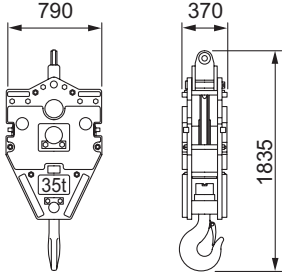
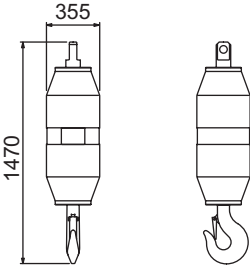
Description	Qty	Dimensions (mm)	Weight (kg)
Jib Base (with Jib Strut)	1		580
Jib Top	1		290
6 m Jib Insert	1		190
100 t Hook	1		1200
80 t Hook	1		1350
50 t Hook	1		1170



Weights and Dimensions of Disassembled Units
Weights and Dimensions List

TECHNICAL DATA

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Description	Qty	Dimensions (mm)	Weight (kg)
35 t Hook	1		900
13.5 t Hook	1		620



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TECHNICAL DATA

Equipment List
Standard and Optional Equipment

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	Cab Up/Down Catwalk	○	○
	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 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)	Mono Rope EP 3XF (40)	○	-
		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 Turns Detective Device		○ *7	○ *7
	Swing Lock		○	○
	Swing Alarm		○	○
	Travel Alarm		○	○
	Auto Slowdown (Slow Stop)		○	○
	Boom Hoist Limiting Device		○	○
	Secondary Boom Over Hoist Prevent Device		○	○
	Warning Alarm		○	○
	Monitor Panel (Machine Monitoring)		○	○
	Engine Start Interlock System		○	○
	Emergency Engine Stop Switch (In Cab)		○	○
	Lifting Height Indication Device		○	○
	Anti-two Block Device		○	-
	Moment Limiter (M/L) Mode Selector (In Left House)		●	○
	Swing Restriction Unit		●	●
	Lowering Limiter		●	●
	Anemometer		●	-
	Obstacle Lights (Fixed Lights)		●	-
	Drum and Rear View Monitor System (3 Cameras)		●	●
	Cab Roof Window Guard		●	●

*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.



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TECHNICAL DATA

Equipment List

Standard and Optional Equipment

○ : Standard ● : Optional — : No setting

Item		Crane	Clamshell
Common parts	Boom Back Stop	○	○
	Boom Angle Sensor	○	○
	Boom Lifting Piece	○	○
	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	● ^{*10}	-
	for Hydraulic Tagline (6 × Fi (29) ϕ 10 mm × 55 m)		
	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 Single Element	○	○
	Air Cleaner Double Element	●	●
Other	Additional Fuel Filter (Triple filter)	●	●
	Additional Spare Parts (Hydraulic Oil Filter)	●	●
	Additional Tools (Large hammer, Crowbar, Chisel)	●	●
	Standard Supplied Tools	○	○
Other	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.



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MEMO





- 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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