

# CCH1400

Lifting Capacity : 140t

**FULLY HYDRAULIC CRAWLER CRANE**

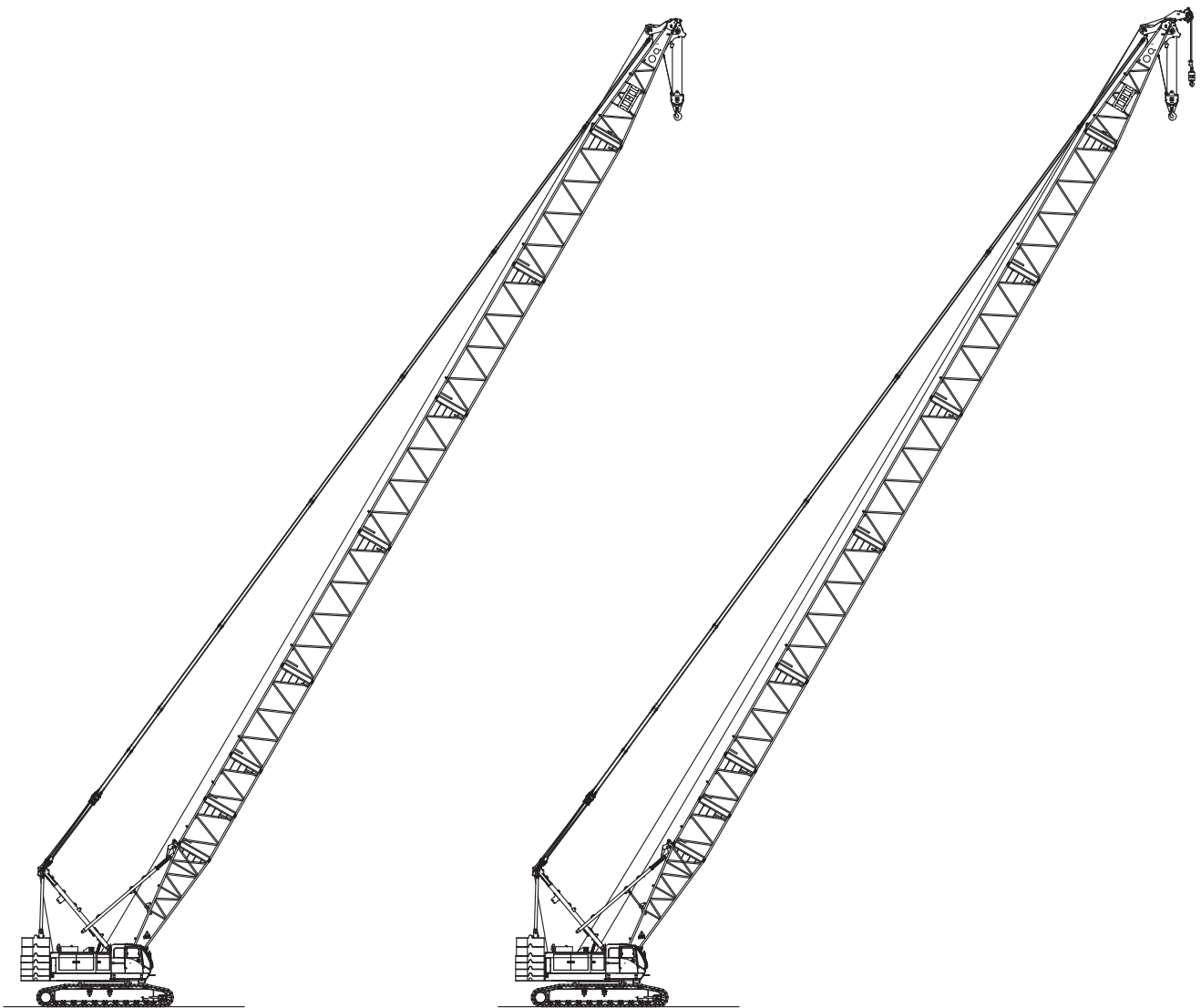
# BOOM COMBINATION

## Two Types of CCH1400

Spec type	Wire Rope	Winch	Line pull		Crane Jib	Light boom	Luffing Tower
			Rated	Max			
Standard	φ26	w/o free fall	12.0t/118kN	19.7t/193kN	○	○	○
High line-pull	φ28	with free fall	13.5t/132kN	24.6t/241kN		×	×

\*This catalogue is based on "Standard" spec.

\*High Line-pull spec sheet is available with several differences as above and others.

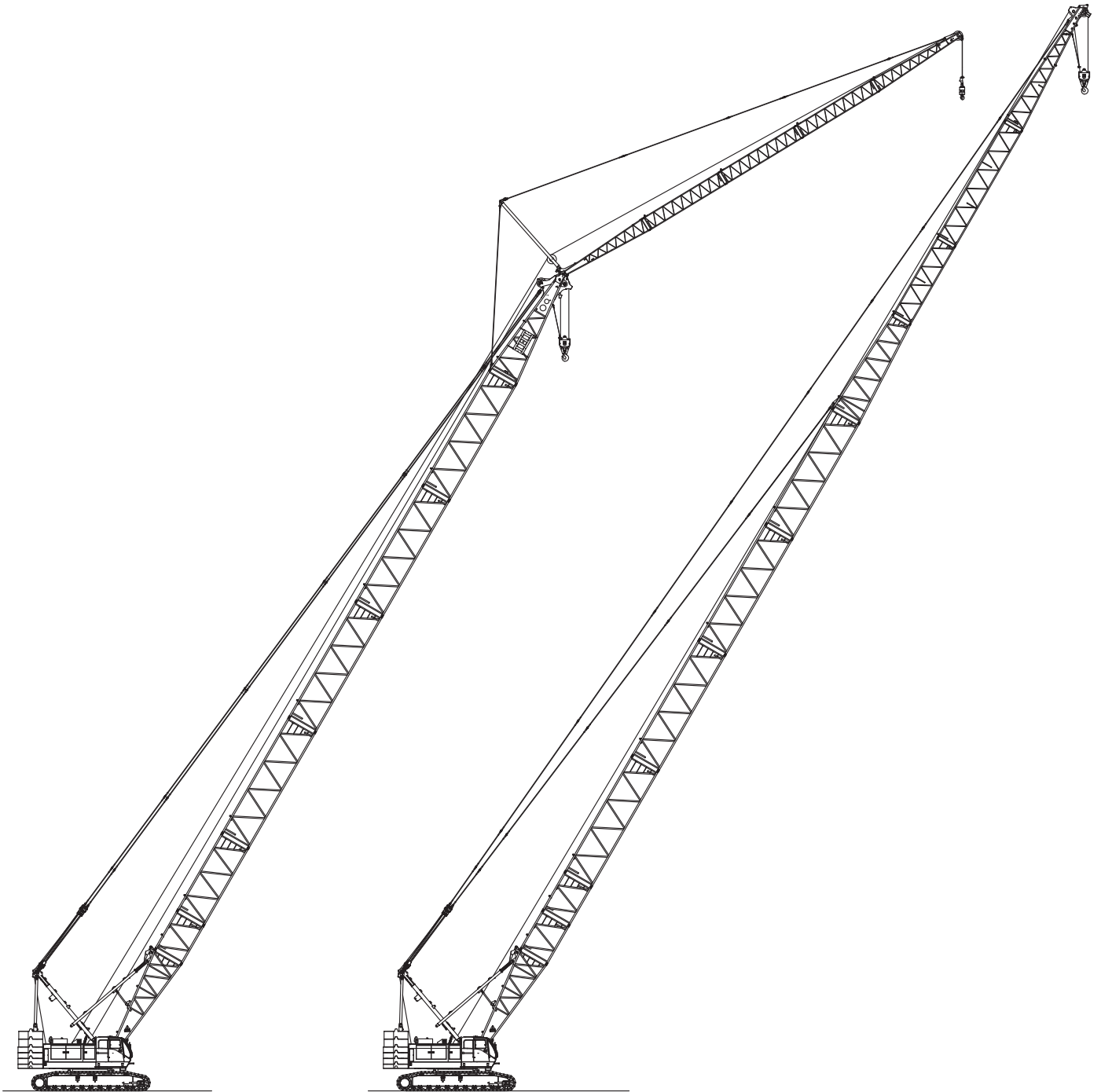


63m STD Boom (Max.)

Boom length	m	15.0 ~ 63.0
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63m STD Boom (Max.) + Aux. Jib

Boom length	m	15.0 ~ 63.0
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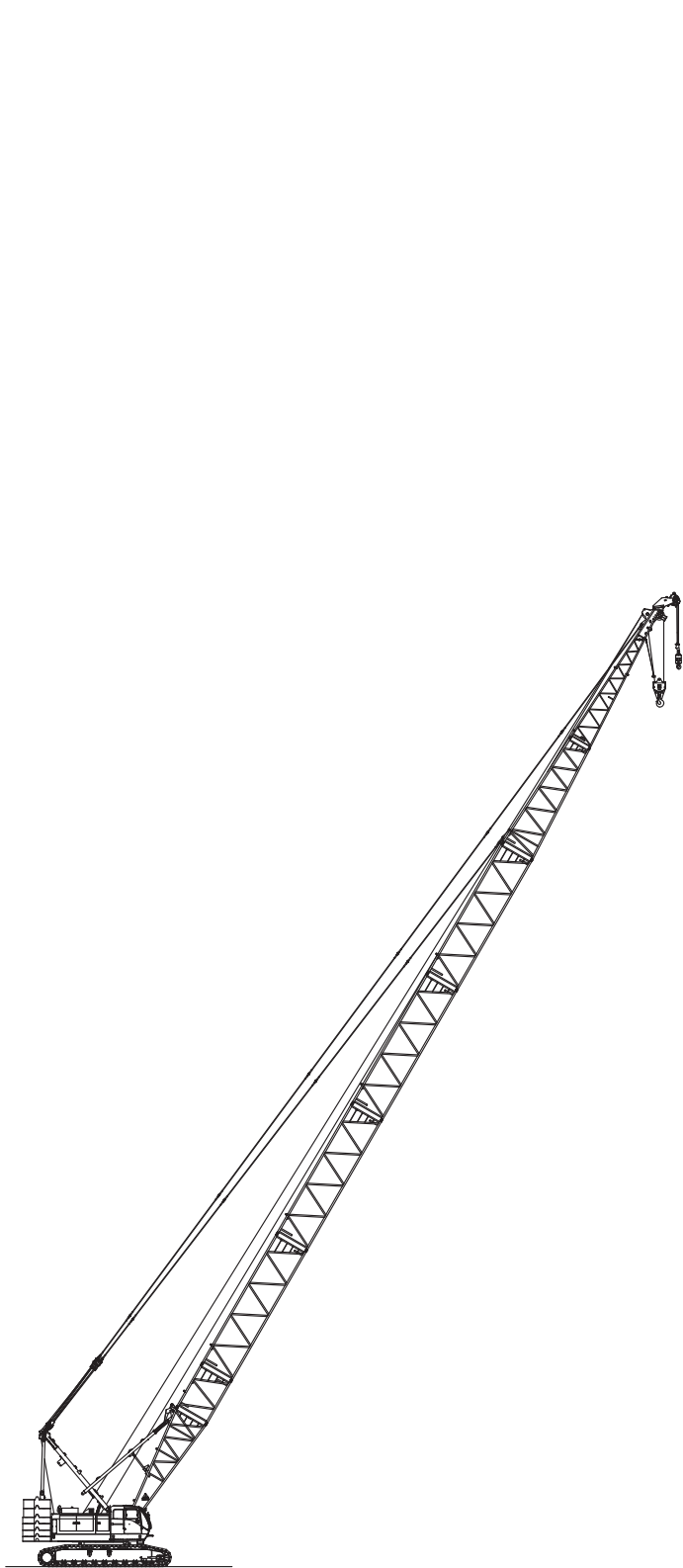
60m STD Boom + 31m Jib (Max.)

Boom length	m	15.0 ~ 63.0
Jib length	m	13.0 ~ 31.0
Boom + Jib (Max)	m	60.0 + 31.0
Boom (Max) + Jib	m	63.0 + 19.0

81m Light Boom (Max.)

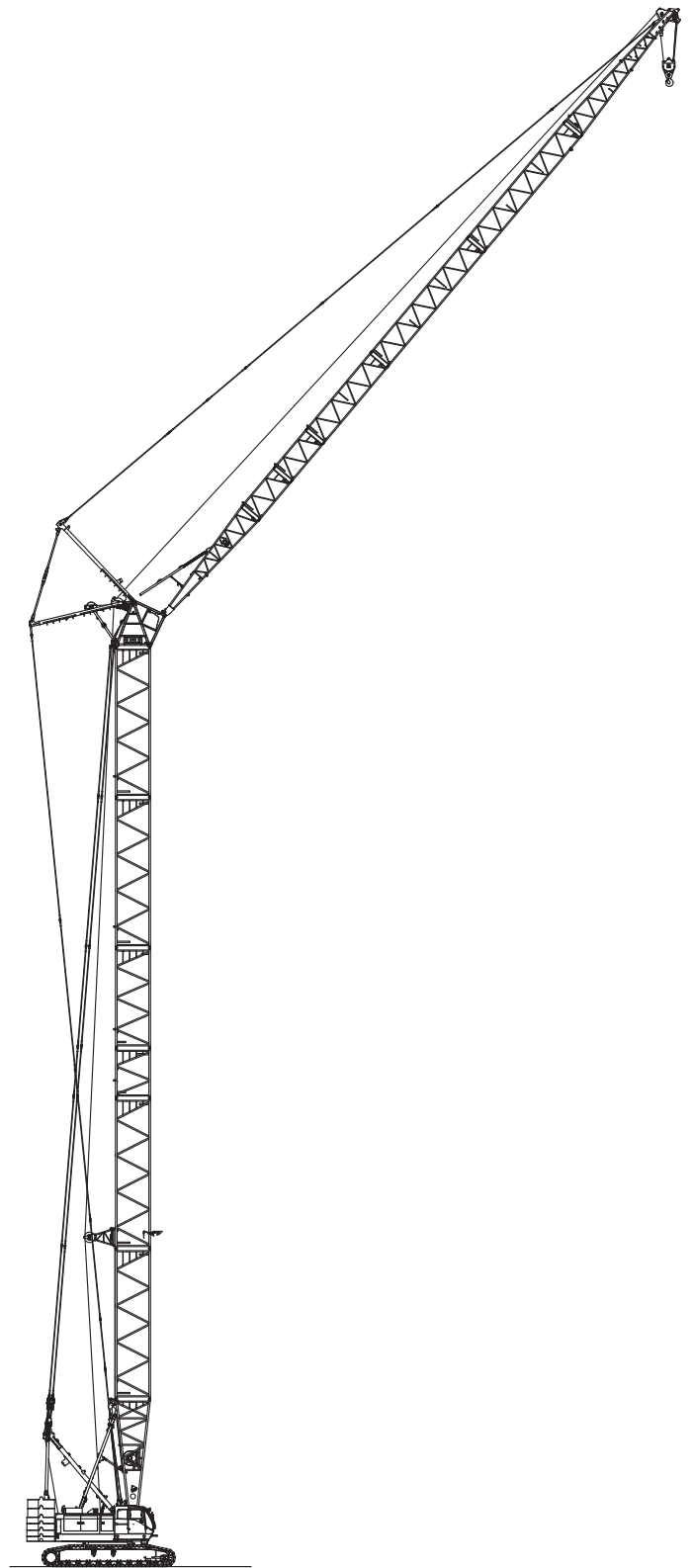
Boom length	m	63.0 ~ 81.0
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# BOOM COMBINATION



63m Light Boom (Min.) + Aux. Jib

Boom length	m	63.0 ~ 78.0
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Tower Boom 54.4m + Jib 47m  
(Max. Boom Combination)

Tower Boom length	m	27.4 ~ 54.4
Jib length	m	23.0 ~ 47.0
Max. height of hook from ground	m	98.9 54.4+47.0

## BOOM COMBINATION

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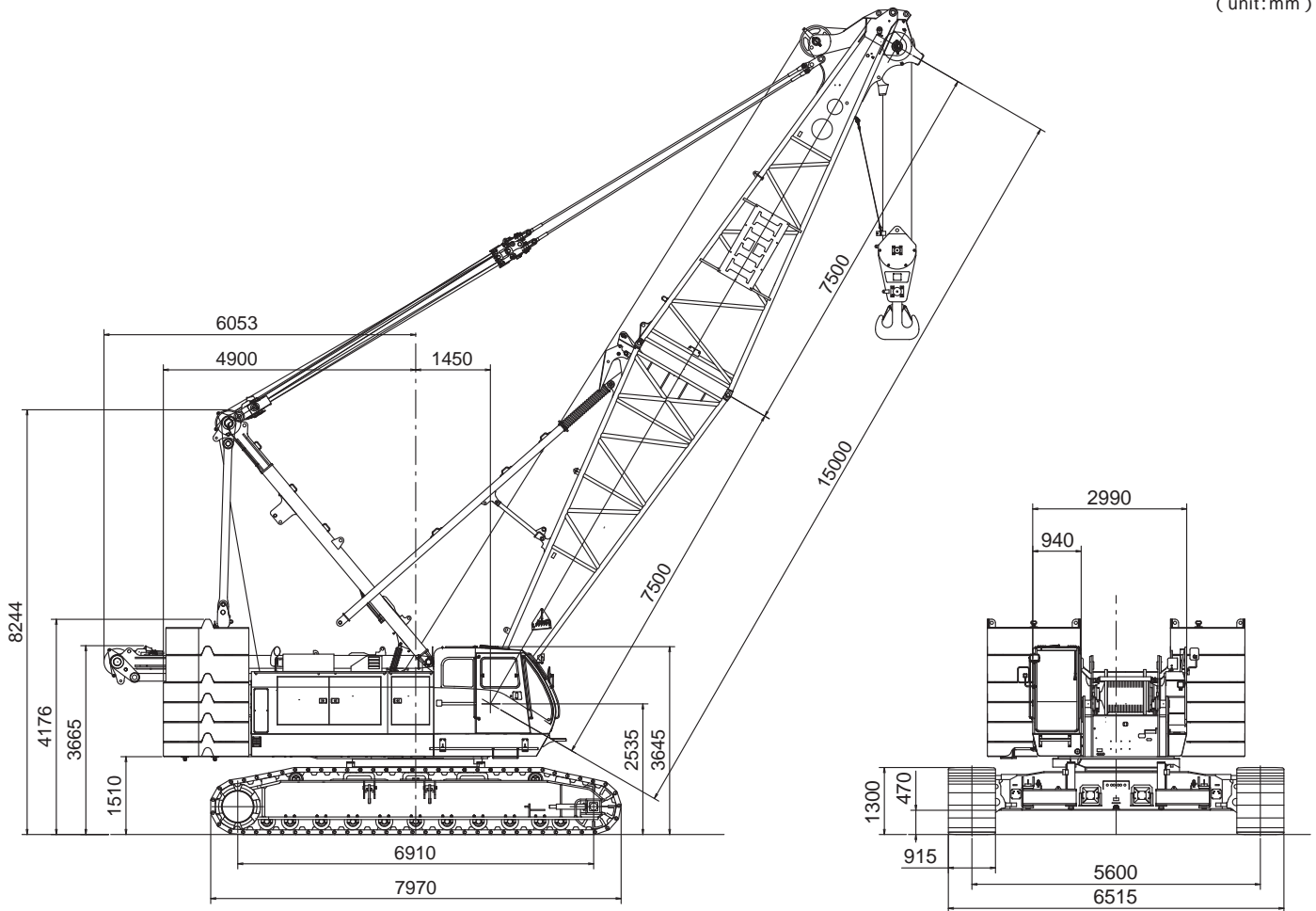
# CRANE

STANDARD BOOM CRANE

LIGHT BOOM CRANE

## Dimensions

(unit:mm)



### CCH1400 Main Specification

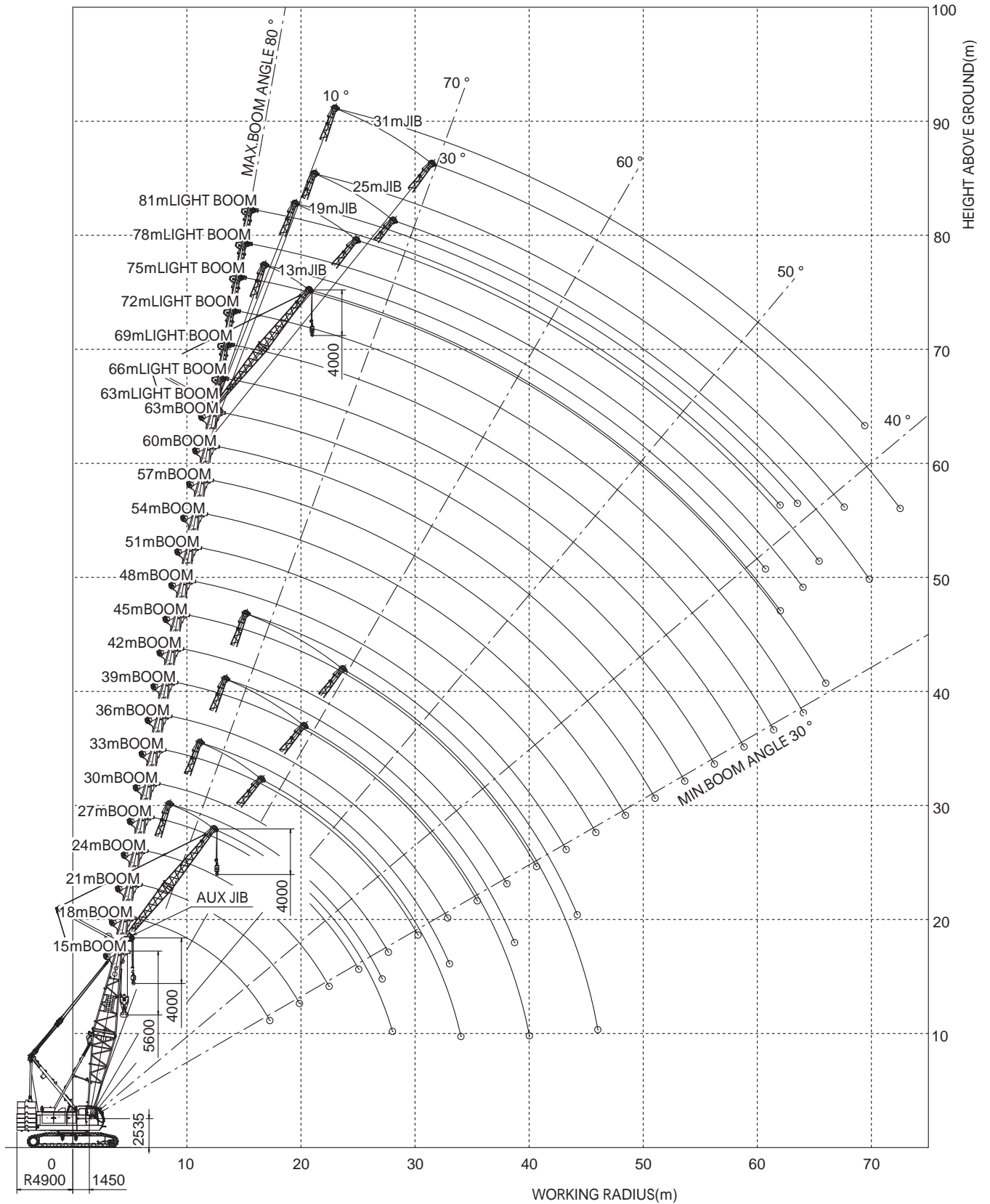
Performance		
Slewing Speed	2.1min <sup>-1</sup>	
Travel Speed	1.5/1.0km/hr	
Gradeability	30% (16.7°)	
Engine	Manufacturer	Cummins Inc.
	Model	QSL
	Emission Certification	U.S.EPA Tier3, CARB Tier3, EU Stage A
	Type	4-cycle, water-cooled, turbocharged and air cooled
	Rated Output	242kW /2,000min <sup>-1</sup>
	Total Displacement	8.9L
	Fuel Tank Capacity	420L
	Battery	12V x 2pcs.

### Crane Specification

Performance		
Maximum Lifting Capacity x Working Radius	140ton x 4.5m	
Standard Boom Length	15.0 ~ 63.0m	
Light Boom Length	63.0 ~ 81.0m	
Maximum Boom Length With Jib Boom	91.0m (60.0m standard boom + 31.0m jib boom)	
Rope Speed	Hoisting/Lowering	* 115m/min
	Boom Hoisting/Lowering	* 73m/min
Rope Part Lines	140T Hook	10 part lines
	12T Hook	1 part line
	Boom Hoist	12 part lines
Line Pull	Max. Line Pull	19.7t / 193kN
	Rated Line Pull	12.0t / 118kN
Counterweight	61.0t	
Crane Total Weight (Basic Specification)	Approx. 135t (with 15m boom), 140t hook	
Average Ground Bearing Pressure	Approx. 98kPa (0.99kgf/cm <sup>2</sup> )	

\* The value marked with "\*" will be changed according to the loads given.

Working Ranges Diagram



# CRANE

## STANDARD BOOM CRANE

### Crane Boom and Jib Combination

#### Standard Boom Combination

( mark: Normal guide-roller position, mark: Additional guide-roller position)

Boom length (m)	Standard boom combination	Boom length (m)	Standard boom combination
15.0		42.0	
18.0		45.0	
21.0		48.0	
24.0		51.0	
27.0		54.0	
30.0		57.0	
33.0		60.0	
36.0		63.0	
39.0			

#### Crane Jib Combination

(with Standard boom combination only)

Jib length (m)	Jib combination
13.0	
19.0	
25.0	
31.0	

#### Boom and Jib Combination

Jib Length (m)	Standard boom length (m)															
	15.0	18.0	21.0	24.0	27.0	30.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0
Aux.																
13.0																
19.0																
25.0																×
31.0																×



## LIGHT BOOM CRANE

### Light Boom Combination

( mark: Normal guide-roller position, mark: Additional guide-roller position)

Boom length (m)	Light boom combination
63.0	
66.0	
69.0	
72.0	
75.0	
78.0	
81.0	

### Wire Rope

Purpose	Rope diameter (mm)	Breaking strength (kN)	Rope type
Load hoisting	φ26	567	IWRC 6 x P·WS (31)
Boom hoisting	φ22.4	357	IWRC 6 x WS (31)
Boom suspension	φ34	1020	IWRC 6 x P·WS (36)
Jib load hoisting *	φ26	598	P·S (19) +39 x P·7
Jib boom suspension	φ28	585	IWRC 6xFi (29)
Jib strut suspension	φ31.5	735	IWRC 6xFi (29)

Note: Designed and rated to comply with EN13000

\* Available for "Load hoisting" of 120T and below

### Max. Lifting Capacity By Reeving

Hook	Part line									
	1	2	3	4	5	6	7	8	9	10
140t	12.0	27.0	40.5	54.0	67.5	81.0	94.5	108.0	121.5	140.0
120t	12.0	27.0	40.5	54.0	67.5	81.0	94.5	108.0	120.0	120.0
80t	12.0	27.0	40.5	54.0	67.5	80.0				
60t	12.0	27.0	40.5	54.0	60.0	60.0				
40t	12.0	27.0	40.0							
12.0t	12.0									

# CRANE

## STANDARD BOOM CRANE

### Standard Boom Rated Lifting Loads

### 61.0t Counterweight

unit: ton

Boom length (m) Working radius (m)	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0
4.5	140.0																
5.0	132.0	130.0															
5.5	120.0	120.0	120.0														
6.0	114.0	112.0	111.0	6.1m x 108.0	6.6m x 96.0												
7.0	100.0	96.0	95.0	94.0	92.0	7.1m x 85.0	7.6m x 79.0										
8.0	82.5	80.0	79.7	78.9	76.2	76.0	74.5	8.2m x 72.0	8.7m x 67.5								
9.0	70.3	69.2	69.0	67.7	67.0	66.9	66.7	67.5	65.8	9.2m x 60.0	9.7m x 54.0						
10.0	60.6	60.5	60.4	59.7	59.0	58.8	58.6	56.5	55.0	54.0	52.6	10.2m x 48.0	10.8m x 46.5	11.3m x 40.5	11.8m x 40.5		
12.0	46.7	46.6	46.4	46.3	46.2	46.1	46.0	45.9	45.8	44.6	43.5	41.5	40.5	39.5	39.2	12.3m x 36.0	12.8m x 31.1
14.0	37.7	37.6	37.5	37.4	37.2	37.1	37.0	36.9	36.8	36.6	36.5	35.7	35.4	35.2	35.0	32.1	28.3
16.0	14.7m x 35.1	31.4	31.2	31.1	31.0	30.9	30.8	30.6	30.5	30.4	30.2	30.1	29.9	29.7	29.4	27.5	23.3
18.0		17.3m x 28.5	26.6	26.5	26.4	26.3	26.2	26.0	25.9	25.7	25.6	25.4	25.3	25.1	25.0	23.3	19.8
20.0			19.9m x 23.4	23.0	22.8	22.8	22.6	22.5	22.3	22.2	22.0	21.9	21.8	21.6	21.4	20.5	17.8
22.0				20.2	20.1	20.0	19.9	19.7	19.6	19.4	19.2	19.1	19.0	18.8	18.6	18.3	16.0
24.0				22.5m x 19.8	17.8	17.7	17.6	17.4	17.3	17.2	17.0	16.8	16.7	16.5	16.3	16.0	14.4
26.0					25.1m x 16.8	15.8	15.7	15.5	15.4	15.3	15.1	15.0	14.8	14.6	14.5	14.4	13.1
28.0						27.7m x 14.6	14.2	14.0	13.8	13.7	13.5	13.4	13.2	13.0	12.9	12.8	11.8
30.0							12.8	12.6	12.5	12.4	12.2	12.0	11.9	11.7	11.5	11.4	10.7
32.0							30.3m x 12.7	11.5	11.3	11.2	11.0	10.9	10.7	10.5	10.4	10.3	9.7
34.0								32.9m x 11.0	10.3	10.2	10.0	9.9	9.7	9.5	9.4	9.3	8.8
36.0									35.5m x 9.6	9.3	9.1	9.0	8.8	8.6	8.5	8.4	7.9
38.0										38.1m x 8.5	8.3	8.2	8.0	7.8	7.7	7.5	7.1
40.0											7.6	7.5	7.3	7.1	7.0	6.8	6.4
42.0											40.7m x 7.3	6.8	6.7	6.5	6.3	6.2	5.6
44.0												43.2m x 6.4	6.1	5.9	5.8	5.6	5.0
46.0													45.8m x 5.6	5.4	5.2	5.1	4.3
48.0														4.9	4.7	4.6	3.7
50.0														48.4m x 4.8	4.3	4.2	3.1
52.0															51.0m x 4.2	3.7	2.6
54.0																53.6m x 3.1	2.0
56.0																	1.4
58.0																	56.2m x 1.4
No. of Part line	10	10	9	8	8	7	6	6	5	5	4	4	4	3	3	3	3

Note:

- THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
- THE FIGURE ENCLOSED WITHIN BOLD LINES IN THIS TABLE ARE THE VALUES DETERMINED BASED ON THE STRENGTH OF THE BOOM, ETC.
- THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
- FOR THE OPERATION, BE SURE TO RAISE THE A-FRAME.
- THE LENGTH OF THE JIB WHICH CAN BE MOUNTED TO THE BOOM IS AS SHOWN BELOW:

Jib length (m)	Aux. Jib	13	19	25	31
Boom length (m)	15 ~ 63	15 ~ 63	15 ~ 63	15 ~ 60	15 ~ 60

- THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.  
 140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
 40t Hook...0.8t    12t Hook...0.4t

- WHEN THE JIB IS MOUNTED, THE RATED LOAD WITH THE MAIN HOOK IS OBTAINED BY SUBTRACTING THE VALUE AS SHOWN BELOW (INCLUDING THE MASS OF THE AUX. HOOK) FROM THE VALUES GIVEN IN THIS TABLE.

Jib length (m)	Aux. Jib	13	19	25	31
Subtraction mass (t)	0.8	3.5	4.0	4.9	6.0

- THE RATED LOAD OF THE AUX. JIB IS OBTAINED BY SUBTRACTING 0.4t FROM THE VALUES GIVEN IN THIS TABLE CORRESPONDING TO THE LENGTH OF THE MOUNTED BOOM. BUT THE MAX. RATED LOAD IS 12.0ton. THE RATED LOAD WITH THE JIB OF 13.0m TO 31.0m LONG REFERS TO THE JIB RATED LOAD TABLE.
- WHEN THE MAIN HOOK IS MOUNTED THE LOAD WHICH CAN BE LIFTED WITH THE JIB IS GIVEN BY SUBTRACTING THE TOTAL MASS OF MAIN AND AUX. HOOKS FROM THE VALUE IN THIS TABLE.
- THE RATED LOAD ARE LIMITED ACCORDING TO THE WIRE ROPE PART LINE AS SHOWN BELOW:  
 1 PART OF LINE ... UP TO 12.0ton    5 PART OF LINE ... UP TO 67.5ton    9 PART OF LINE ... UP TO 121.5ton  
 2 PART OF LINE ... UP TO 27.0ton    6 PART OF LINE ... UP TO 81.0ton    10 PART OF LINE ... UP TO 140.0ton  
 3 PART OF LINE ... UP TO 40.5ton    7 PART OF LINE ... UP TO 94.5ton  
 4 PART OF LINE ... UP TO 54.0ton    8 PART OF LINE ... UP TO 108.0ton

# STANDARD BOOM CRANE

## Aux. Jib Rated Lifting Loads

### 61.0t Counterweight

unit: ton

Boom length (m) Working radius (m)	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0
5.0	5.3m x 12.0	5.8m x 12.0															
6.0	12.0	12.0	6.3m x 12.0	6.9m x 12.0													
7.0	12.0	12.0	12.0	12.0	7.4m x 12.0	7.9m x 12.0											
8.0	12.0	12.0	12.0	12.0	12.0	12.0	8.4m x 12.0										
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	9.5m x 12.0								
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.5m x 12.0	11.0m x 12.0	11.6m x 12.0				
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.1m x 12.0	12.6m x 12.0	13.1m x 12.0	13.6m x 12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
18.0	16.2m x 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
20.0		18.8m x 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
22.0			21.4m x 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
24.0				12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
26.0					12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
28.0					26.6m x 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.4
30.0						29.2m x 12.0	12.0	12.0	12.0	12.0	11.8	11.6	11.5	11.3	11.1	11.0	10.3
32.0							31.8m x 11.2	11.1	10.9	10.8	10.6	10.5	10.3	10.1	10.0	9.9	9.3
34.0								10.2	9.9	9.8	9.6	9.5	9.3	9.1	9.0	8.9	8.4
36.0								34.4m x 9.9	9.0	8.9	8.7	8.6	8.4	8.2	8.1	8.0	7.5
38.0									37.0m x 8.4	8.1	7.9	7.8	7.6	7.4	7.3	7.1	6.7
40.0										39.6m x 7.3	7.2	7.1	6.9	6.7	6.6	6.4	6.0
42.0											6.8	6.4	6.3	6.1	5.9	5.8	5.2
44.0											42.2m x 6.5	5.9	5.7	5.5	5.4	5.2	4.6
46.0												44.7m x 5.7	5.1	5.0	4.8	4.7	3.9
48.0													47.3m x 4.6	4.5	4.3	4.2	3.3
50.0														49.9m x 4.0	3.9	3.8	2.7
52.0															3.5	3.3	2.2
54.0															52.5m x 3.2	2.7	1.6
56.0																55.1m x 2.0	1.0
No. of Part line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note:

1. THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
2. THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
3. THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.

140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
 40t Hook...0.8t    12t Hook...0.4t

# CRANE

## LIGHT BOOM CRANE

### Light Boom Rated Lifting Loads

#### 61.0t Counterweight

unit : ton

Boom length (m) Working radius (m)	63.0	66.0	69.0	72.0	75.0	78.0	81.0
12.0	12.7m x 24.0	13.2m x 24.0	13.7m x 24.0				
14.0	24.0	24.0	24.0	14.2m x 22.6	14.8m x 20.1	15.3m x 17.0	15.8m x 12.7
16.0	24.0	24.0	24.0	21.2	19.2	16.6	12.6
18.0	23.5	23.5	22.5	20.1	17.9	15.3	11.6
20.0	22.0	21.9	20.8	18.7	16.9	14.3	10.8
22.0	19.4	19.3	19.2	17.3	15.8	13.4	10.0
24.0	17.1	17.0	16.9	16.3	14.6	12.5	9.4
26.0	15.2	15.1	15.0	14.9	13.7	11.8	8.8
28.0	13.6	13.5	13.4	13.3	12.7	11.2	8.3
30.0	12.3	12.2	12.1	12.0	11.9	10.6	7.8
32.0	11.1	11.0	10.9	10.8	10.7	10.0	7.4
34.0	10.1	10.0	9.9	9.8	9.7	9.3	7.0
36.0	9.2	9.1	9.0	8.9	8.8	8.7	6.6
38.0	8.4	8.3	8.2	8.1	8.0	7.9	6.3
40.0	7.7	7.6	7.5	7.4	7.3	7.2	5.9
42.0	7.0	6.9	6.8	6.7	6.6	6.5	5.6
44.0	6.5	6.4	6.3	6.2	6.1	6.0	5.3
46.0	5.9	5.8	5.7	5.6	5.5	5.4	4.8
48.0	5.5	5.4	5.3	5.2	5.1	5.0	4.3
50.0	5.0	4.9	4.8	4.7	4.6	4.5	3.9
52.0	4.6	4.5	4.4	4.3	4.2	4.1	3.4
54.0	4.3	4.2	4.1	4.0	3.9	3.8	3.0
56.0	3.9	3.8	3.7	3.6	3.5	3.4	2.6
58.0	56.2m x 3.9	3.4	3.3	3.2	3.1	3.0	2.2
60.0		58.8m x 3.3	3.1	3.0	2.9	2.6	2.0
62.0			61.4m x 2.8	2.8	2.6	2.4	1.7
64.0				2.5	2.3	2.0	
66.0					1.8		
No. of Part line	2	2	2	2	2	2	2

Note:

- THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
- THE FIGURE ENCLOSED WITHIN BOLD LINES IN THIS TABLE ARE THE VALUES DETERMINED BASED ON THE STRENGTH OF THE BOOM, ETC.
- THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
- FOR THE OPERATION, BE SURE TO RAISE THE A-FRAME.
- THE LENGTH OF THE BOOM WHICH CAN BE MOUNTED WITH THE AUX. JIB IS 63.0m ~ 78.0m.
- THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.  
40t Hook...0.8t    12t Hook...0.4t
- WHEN THE AUX. JIB IS MOUNTED, RATED LOAD WITH THE MAIN HOOK IS OBTAINED BY SUBTRACTING 0.8ton (INCLUDING THE MASS OF THE AUX. HOOK) FROM THE VALUES GIVEN IN THIS TABLE.
- THE RATED LOAD OF THE AUX. JIB IS OBTAINED BY SUBTRACTING 0.4t FROM THE VALUES GIVEN IN THIS TABLE CORRESPONDING TO THE LENGTH OF THE MOUNTED BOOM. BUT THE MAX. RATED LOAD IS 12.0ton.
- WHEN THE MAIN HOOK IS MOUNTED THE LOAD WHICH CAN BE LIFTED WITH THE JIB IS GIVEN BY SUBTRACTING THE TOTAL MASS OF MAIN AND AUX. HOOKS FROM THE VALUE IN THIS TABLE.
- THE RATED LOAD ARE LIMITED ACCORDING TO THE WIRE ROPE PART LINE AS SHOWN BELOW:  
1 PART OF LINE ... UP TO 12.0 ton    2 PART OF LINE ... UP TO 24.0 ton

### Aux. Jib Rated Lifting Loads

#### 61.0t Counterweight

unit : ton

Boom length (m) Working radius (m)	63.0	66.0	69.0	72.0	75.0	78.0
12.0	13.5m x 12.0					
14.0	12.0	12.0	14.5m x 12.0	15.0m x 12.0	15.6m x 12.0	
16.0	12.0	12.0	12.0	12.0	12.0	16.1m x 12.0
18.0	12.0	12.0	12.0	12.0	12.0	12.0
20.0	12.0	12.0	12.0	12.0	12.0	12.0
22.0	12.0	12.0	12.0	12.0	12.0	12.0
24.0	12.0	12.0	12.0	12.0	12.0	12.0
26.0	12.0	12.0	12.0	12.0	12.0	11.4
28.0	12.0	12.0	12.0	12.0	12.0	10.8
30.0	11.9	11.8	11.7	11.6	11.5	10.2
32.0	10.7	10.6	10.5	10.4	10.3	9.6
34.0	9.7	9.6	9.5	9.4	9.3	8.9
36.0	8.8	8.7	8.6	8.5	8.4	8.3
38.0	8.0	7.9	7.8	7.7	7.6	7.5
40.0	7.3	7.2	7.1	7.0	6.9	6.8
42.0	6.6	6.5	6.4	6.3	6.2	6.1
44.0	6.1	6.0	5.9	5.8	5.7	5.6
46.0	5.5	5.4	5.3	5.2	5.1	5.0
48.0	5.1	5.0	4.9	4.8	4.7	4.6
50.0	4.6	4.5	4.4	4.3	4.2	4.1
52.0	4.2	4.1	4.0	3.9	3.8	3.7
54.0	3.9	3.8	3.7	3.6	3.5	3.4
56.0	3.5	3.4	3.3	3.2	3.1	3.0
58.0	57.6m x 3.1	3.0	2.9	2.8	2.7	2.6
60.0		60.2m x 2.6	2.7	2.6	2.5	2.2
62.0			2.4	2.4	2.2	2.0
64.0			62.8m x 2.1	2.1	1.9	1.6
66.0				65.4m x 1.9	1.4	
No. of Part line	1	1	1	1	1	1

Note:

- THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
- THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
- THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.  
40t Hook...0.8t    12t Hook...0.4t

# STANDARD BOOM CRANE

## Crane Jib Rated Lifting Loads

## 61.0t Counterweight

### Boom length: 15.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	8.0	8.7m 23.0							
	10.0	22.4		11.4m 16.9					
	12.0	21.6	12.6m 18.8	16.7		13.6m 10.5			
	14.0	21.0	18.5	16.1		10.4		15.4m 6.2	
	16.0	20.5	18.0	15.6	16.7m 12.0	9.7		6.0	
	18.0	20.0	17.2	15.1	12.0	9.2		5.6	
	20.0	19.3	15.9	14.7	11.9	8.7	20.5m 7.2	5.3	
	22.0	18.7	14.8	14.2	11.5	8.3	6.9	5.0	23.9m 3.9
	24.0	17.0	14.0	13.0	10.9	7.9	6.6	4.7	3.9
	26.0	15.7	13.3	11.9	10.2	7.5	6.4	4.4	3.7
	28.0			11.0	9.7	7.2	6.1	4.2	3.5
	30.0			10.2	9.2	6.9	5.9	4.0	3.3
	32.0			9.6	8.9	6.7	5.8	3.8	3.2
	34.0				8.7	6.4	5.6	3.6	3.1
	36.0					6.3	5.5	3.4	2.9
	38.0					6.1	5.5	3.3	2.8
	40.0						5.5	3.1	2.7
	42.0							3.0	2.7
	44.0							2.9	2.6
46.0								2.6	
No. of Part line		2	2	2	1	1	1	1	1

### Boom length: 18.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0		
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°	
Working radius (m)	8.0	9.2m 23.0								
	10.0	22.6		11.9m 16.9						
	12.0	21.9	13.1m 18.9	16.9						
	14.0	21.3	18.7	16.3			14.1m 10.5		15.9m 6.2	
	16.0	20.8	18.2	15.8	17.2m 12.0	9.9		6.2		
	18.0	20.3	17.7	15.4	12.0	9.4		5.8		
	20.0	19.8	16.7	14.9	12.0	8.9	21.0m 7.2	5.4		
	22.0	19.2	15.6	14.6	11.7	8.5	7.0	5.1		
	24.0	18.7	14.7	13.9	11.3	8.1	6.7	4.8	24.4m 3.9	
	26.0	16.8	14.0	12.8	10.7	7.8	6.5	4.6	3.7	
	28.0	15.2	13.4	11.8	10.1	7.4	6.3	4.3	3.6	
	30.0		13.0	11.0	9.6	7.2	6.1	4.1	3.4	
	32.0			10.3	9.2	6.9	5.9	3.9	3.3	
	34.0				9.7	8.9	6.7	5.7	3.7	3.1
	36.0					8.7	6.5	5.6	3.6	3.0
	38.0						6.3	5.5	3.4	2.9
	40.0						6.1	5.5	3.3	2.8
	42.0							5.5	3.1	2.7
	44.0								3.0	2.7
46.0								2.9	2.6	
48.0									2.6	
No. of Part line		2	2	2	1	1	1	1	1	

### Boom length: 21.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	8.0	9.7m 23.0							
	10.0	22.8							
	12.0	22.2	13.6m 18.9	12.4m 17.0					
	14.0	21.6	18.8	16.5		14.6m 10.5			
	16.0	21.1	18.4	16.0	17.8m 12.0	10.1		16.4m 6.2	
	18.0	20.6	17.9	15.6	12.0	9.6		5.9	
	20.0	20.2	17.4	15.2	12.0	9.1	21.5m 7.2	5.5	
	22.0	19.7	16.3	14.8	11.9	8.7	7.1	5.2	
	24.0	18.6	15.4	14.4	11.5	8.3	6.8	4.9	24.9m 3.9
	26.0	16.7	14.6	13.7	11.1	8.0	6.6	4.7	3.8
	28.0	15.1	13.9	12.7	10.5	7.7	6.4	4.5	3.6
	30.0	13.7	13.4	11.8	10.0	7.4	6.2	4.2	3.5
	32.0	12.5	12.6	11.0	9.6	7.1	6.0	4.0	3.3
	34.0			10.4	9.2	6.9	5.9	3.9	3.2
	36.0			9.8	8.9	6.7	5.7	3.7	3.1
	38.0				8.7	6.5	5.6	3.5	3.0
	40.0					6.3	5.5	3.4	2.9
	42.0					6.2	5.5	3.3	2.8
	44.0					6.1	5.5	3.2	2.7
46.0							3.1	2.7	
48.0							3.0	2.6	
50.0								2.6	
No. of Part line		2	2	2	1	1	1	1	1

### Boom length: 24.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0		
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°	
Working radius (m)	10.0	10.2m 23.0								
	12.0	22.4		12.9m 17.0						
	14.0	21.8	14.2m 18.8	16.7		15.2m 10.5				
	16.0	21.3	18.5	16.2		10.3		17.0m 6.2		
	18.0	20.9	18.1	15.8	18.3m 12.0	9.8		6.0		
	20.0	20.5	17.7	15.4	12.0	9.3		5.6		
	22.0	20.1	16.9	15.0	12.0	8.9	22.0m 7.2	5.3		
	24.0	18.4	16.0	14.7	11.7	8.5	6.9	5.1	25.4m 3.9	
	26.0	16.5	15.2	14.3	11.4	8.2	6.7	4.8	3.8	
	28.0	14.9	14.5	13.4	10.8	7.9	6.5	4.6	3.7	
	30.0	13.5	13.8	12.5	10.3	7.6	6.3	4.4	3.5	
	32.0	12.3	12.6	11.8	9.9	7.3	6.1	4.2	3.4	
	34.0	11.3	11.5	11.1	9.5	7.1	6.0	4.0	3.3	
	36.0			10.5	9.2	6.9	5.8	3.8	3.2	
	38.0			9.9	8.9	6.7	5.7	3.7	3.1	
	40.0				9.2	8.7	6.5	5.6	3.5	3.0
	42.0					6.3	5.5	3.4	2.9	
	44.0					6.2	5.5	3.3	2.8	
	46.0					6.1	5.5	3.2	2.7	
48.0							3.1	2.7		
50.0							3.0	2.6		
52.0							2.9	2.6		
No. of Part line		2	2	2	1	1	1	1	1	

Note:

1. THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
2. THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
3. THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.

140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
40t Hook...0.8t    12t Hook...0.4t

# CRANE

## STANDARD BOOM CRANE

### Crane Jib Rated Lifting Loads

### 61.0t Counterweight

#### Boom length: 27.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	10.0	10.8m 23.0							
	12.0	22.6		13.4m 17.0					
	14.0	22.0	14.7m 18.9	16.8		15.7m 10.5			
	16.0	21.5	18.6	16.4		10.4		17.5m 6.2	
	18.0	21.1	18.3	15.9	18.8m 12.0	9.9		6.1	
	20.0	20.7	17.9	15.6	12.0	9.5		5.8	
	22.0	20.4	17.5	15.2	12.0	9.1	22.6m 7.1	5.5	
	24.0	18.2	16.6	14.9	11.8	8.7	7.0	5.2	
	26.0	16.3	15.8	14.6	11.6	8.4	6.8	4.9	26.0m 3.9
	28.0	14.7	15.1	14.2	11.2	8.1	6.6	4.7	3.7
	30.0	13.3	13.6	13.3	10.7	7.8	6.4	4.5	3.6
	32.0	12.1	12.4	12.4	10.2	7.5	6.2	4.3	3.5
	34.0	11.1	11.3	11.5	9.8	7.3	6.1	4.1	3.3
	36.0	10.2	10.3	10.6	9.5	7.0	5.9	4.0	3.2
	38.0		9.5	9.7	9.2	6.8	5.8	3.8	3.1
	40.0			9.0	9.0	6.7	5.7	3.7	3.0
	42.0			8.4	8.5	6.5	5.6	3.5	2.9
	44.0				7.9	6.3	5.5	3.4	2.9
	46.0					6.2	5.5	3.3	2.8
	48.0					6.1	5.5	3.2	2.7
50.0						5.5	3.1	2.7	
52.0							3.0	2.6	
54.0							2.9	2.6	
56.0								2.6	
No. of Part line	2	2	2	1	1	1	1	1	

#### Boom length: 30.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	10.0	11.3m 23.0							
	12.0	22.7							
	14.0	22.2	15.2m 18.9	14.0m 16.9					
	16.0	21.7	18.7	16.5			16.2m 10.5		
	18.0	21.3	18.4	16.1	19.3m 12.0	10.1		18.0m 6.2	
	20.0	20.9	18.1	15.7	12.0	9.6		5.9	
	22.0	20.3	17.7	15.4	12.0	9.2	23.1m 7.2	5.6	
	24.0	18.0	17.1	15.1	11.9	8.9	7.0	5.3	
	26.0	16.1	16.3	14.8	11.7	8.5	6.8	5.1	26.5m 3.9
	28.0	14.5	14.9	14.5	11.5	8.2	6.6	4.8	3.8
	30.0	13.1	13.5	13.5	11.0	8.0	6.5	4.6	3.6
	32.0	11.9	12.2	12.3	10.5	7.7	6.3	4.4	3.5
	34.0	10.9	11.1	11.3	10.1	7.5	6.1	4.2	3.4
	36.0	10.0	10.2	10.4	9.8	7.2	6.0	4.1	3.3
	38.0	9.2	9.3	9.5	9.5	7.0	5.9	3.9	3.2
	40.0		8.6	8.8	9.1	6.8	5.8	3.8	3.1
	42.0			8.2	8.4	6.7	5.7	3.6	3.0
	44.0			7.6	7.7	6.5	5.6	3.5	2.9
	46.0				7.1	6.4	5.5	3.4	2.8
	48.0					6.2	5.5	3.3	2.8
50.0					6.1	5.5	3.2	2.7	
52.0						5.5	3.1	2.7	
54.0							3.0	2.6	
56.0							2.9	2.6	
58.0								2.6	
No. of Part line	2	2	2	1	1	1	1	1	

#### Boom length: 33.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	10.0	11.8m 23.0							
	12.0	22.9							
	14.0	22.4	15.7m 18.9	14.5m 16.9					
	16.0	21.9	18.8	16.6		16.7m 10.5			
	18.0	21.5	18.5	16.2		10.2		18.5m 6.2	
	20.0	21.1	18.2	15.9	19.9m 12.0	9.8		5.9	
	22.0	20.2	17.9	15.5	12.0	9.4	23.6m 7.2	5.7	
	24.0	17.9	17.6	15.2	12.0	9.0	7.1	5.4	
	26.0	16.0	16.5	14.9	11.8	8.7	6.9	5.2	27.0m 3.9
	28.0	14.4	14.8	14.7	11.6	8.4	6.7	4.9	3.8
	30.0	13.0	13.4	13.4	11.3	8.1	6.5	4.7	3.7
	32.0	11.8	12.1	12.2	10.8	7.9	6.4	4.5	3.6
	34.0	10.8	11.1	11.2	10.4	7.6	6.2	4.4	3.4
	36.0	9.8	10.1	10.2	10.1	7.4	6.1	4.2	3.3
	38.0	9.0	9.2	9.4	9.7	7.2	6.0	4.0	3.2
	40.0	8.3	8.5	8.7	9.0	7.0	5.9	3.9	3.1
	42.0	7.7	7.8	8.0	8.3	6.8	5.8	3.8	3.1
	44.0			7.4	7.6	6.7	5.7	3.6	3.0
	46.0			6.9	7.1	6.5	5.6	3.5	2.9
	48.0			6.4	6.5	6.4	5.5	3.4	2.8
50.0					6.2	5.5	3.3	2.8	
52.0					5.8	5.5	3.2	2.7	
54.0					5.3	5.5	3.1	2.7	
56.0							3.0	2.6	
58.0							3.0	2.6	
60.0								2.6	
No. of Part line	2	2	2	1	1	1	1	1	

#### Boom length: 36.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	12.0	12.3m 23.0							
	14.0	22.5		15.0m 17.0					
	16.0	22.1	16.2m 18.9	16.8		17.2m 10.5			
	18.0	21.7	18.6	16.4		10.3		19.0m 8.0	
	20.0	21.3	18.3	16.0	20.4m 12.0	9.9		6.0	
	22.0	20.0	18.0	15.7	12.0	9.5		5.7	
	24.0	17.7	17.7	15.4	12.0	9.2	24.1m 7.2	5.5	
	26.0	15.8	16.3	15.1	11.9	8.9	7.0	5.3	27.5m 3.9
	28.0	14.2	14.7	14.6	11.7	8.6	6.8	5.0	3.9
	30.0	12.8	13.2	13.2	11.5	8.3	6.6	4.8	3.7
	32.0	11.6	12.0	12.0	11.1	8.0	6.4	4.6	3.6
	34.0	10.5	10.9	11.0	10.7	7.8	6.3	4.5	3.5
	36.0	9.6	9.9	10.0	10.3	7.6	6.2	4.3	3.4
	38.0	8.8	9.1	9.2	9.6	7.4	6.0	4.1	3.3
	40.0	8.1	8.3	8.5	8.8	7.2	5.9	4.0	3.2
	42.0	7.4	7.6	7.8	8.1	7.0	5.8	3.9	3.1
	44.0	6.9	7.0	7.2	7.5	6.8	5.7	3.7	3.0
	46.0			6.7	6.9	6.7	5.7	3.6	3.0
	48.0			6.2	6.4	6.4	5.6	3.5	2.9
	50.0			5.7	5.9	6.0	5.5	3.4	2.8
52.0				5.3	5.6	5.5	3.3	2.8	
54.0					5.2	5.4	3.2	2.7	
56.0					4.7	5.0	3.1	2.7	
58.0						4.4	3.0	2.6	
60.0							3.0	2.6	
62.0							2.9	2.6	
64.0								2.6	
No. of Part line	2	2	2	1	1	1	1	1	

# STANDARD BOOM CRANE

## Crane Jib Rated Lifting Loads

## 61.0t Counterweight

### Boom length: 39.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	12.0	12.8m 23.0							
	14.0	22.7		15.5m 17.0					
	16.0	22.2	16.8m 18.9	16.9		17.8m 10.5			
	18.0	21.9	18.7	16.5		10.4		19.6m 6.2	
	20.0	21.5	18.4	16.1	20.9m 12.0	10.0		6.1	
	22.0	19.9	18.1	15.8	12.0	9.7		5.8	
	24.0	17.5	17.9	15.5	12.0	9.3	24.7m 7.1	5.6	
	26.0	15.6	16.2	15.2	12.0	9.0	7.0	5.3	27.1m 3.9
	28.0	14.0	14.5	14.5	11.8	8.7	6.8	5.1	3.8
	30.0	12.6	13.1	13.1	11.6	8.4	6.7	4.9	3.8
	32.0	11.4	11.8	11.8	11.3	8.2	6.5	4.7	3.6
	34.0	10.4	10.7	10.8	10.9	7.9	6.4	4.6	3.5
	36.0	9.5	9.8	9.9	10.4	7.7	6.2	4.4	3.4
	38.0	8.6	8.9	9.0	9.5	7.5	6.1	4.2	3.3
	40.0	7.9	8.2	8.3	8.7	7.3	6.0	4.1	3.2
	42.0	7.3	7.5	7.6	8.0	7.1	5.9	4.0	3.2
	44.0	6.7	6.9	7.0	7.4	7.0	5.8	3.8	3.1
	46.0	6.1	6.3	6.5	6.8	6.8	5.7	3.7	3.0
	48.0		5.7	6.0	6.2	6.3	5.6	3.6	2.9
	50.0			5.5	5.7	5.8	5.6	3.5	2.9
52.0			5.1	5.3	5.4	5.5	3.4	2.8	
54.0				4.7	5.0	5.2	3.3	2.8	
56.0					4.6	4.8	3.2	2.7	
58.0					4.2	4.5	3.1	2.7	
60.0						3.9	3.1	2.7	
62.0							3.0	2.6	
64.0							2.9	2.6	
66.0								2.6	
No. of Part line	2	2	2	1	1	1	1	1	

### Boom length: 42.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	12.0	13.4m 23.0							
	14.0	22.8							
	16.0	22.4	17.3m 18.9	16.0m 17.0					
	18.0	22.0	18.8	16.6			18.3m 10.5		
	20.0	21.6	18.5	16.3	21.4m 12.0	10.2		20.1m 6.2	
	22.0	19.8	18.3	16.0	12.0	9.8		5.9	
	24.0	17.5	18.0	15.7	12.0	9.5	25.2m 7.1	5.7	
	26.0	15.6	16.2	15.4	12.0	9.1	7.1	5.4	
	28.0	13.9	14.5	14.4	11.9	8.9	6.9	5.2	28.6m 3.9
	30.0	12.6	13.1	13.0	11.7	8.6	6.7	5.0	3.8
	32.0	11.4	11.8	11.8	11.5	8.3	6.6	4.8	3.7
	34.0	10.3	10.7	10.7	11.2	8.1	6.4	4.7	3.6
	36.0	9.4	9.8	9.8	10.3	7.9	6.3	4.5	3.5
	38.0	8.6	8.9	9.0	9.4	7.7	6.2	4.3	3.4
	40.0	7.9	8.1	8.2	8.7	7.5	6.1	4.2	3.3
	42.0	7.2	7.5	7.6	8.0	7.3	6.0	4.1	3.2
	44.0	6.6	6.8	7.0	7.3	7.1	5.9	3.9	3.1
	46.0	6.1	6.3	6.4	6.7	6.7	5.8	3.8	3.0
	48.0	5.6	5.7	5.9	6.2	6.2	5.7	3.7	3.0
	50.0	4.8	5.1	5.5	5.7	5.7	5.6	3.6	2.9
52.0			5.1	5.3	5.3	5.6	3.5	2.9	
54.0				4.5	4.8	4.9	3.4	2.8	
56.0				3.9	4.2	4.6	3.3	2.8	
58.0					4.2	4.4	3.2	2.7	
60.0						3.6	3.1	2.7	
62.0						3.1	3.1	2.7	
64.0							3.0	2.6	
66.0							2.9	2.6	
68.0								2.6	
No. of Part line	2	2	2	1	1	1	1	1	

### Boom length: 45.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	14.0	13.9m 23.0							
	16.0	22.5	17.8m 18.9	16.6m 16.9					
	18.0	22.1	18.8	16.7		18.8m 10.5			
	20.0	21.8	18.6	16.4		10.3		20.6m 6.2	
	22.0	19.6	18.4	16.1	21.9m 12.0	9.9		6.0	
	24.0	17.3	18.0	15.8	12.0	9.6	25.7m 7.1	5.7	
	26.0	15.3	16.0	15.5	12.0	9.3	7.1	5.5	
	28.0	13.7	14.3	14.2	12.0	9.0	7.0	5.3	29.1m 3.9
	30.0	12.3	12.9	12.8	11.8	8.7	6.8	5.1	3.8
	32.0	11.1	11.6	11.6	11.6	8.5	6.6	4.9	3.7
	34.0	10.1	10.5	10.5	11.1	8.2	6.5	4.7	3.6
	36.0	9.2	9.6	9.6	10.2	8.0	6.4	4.6	3.5
	38.0	8.4	8.7	8.8	9.3	7.8	6.3	4.4	3.4
	40.0	7.6	8.0	8.0	8.5	7.6	6.1	4.3	3.3
	42.0	7.0	7.3	7.4	7.8	7.4	6.0	4.2	3.2
	44.0	6.4	6.6	6.8	7.1	7.0	5.9	4.0	3.2
	46.0	5.9	6.1	6.2	6.6	6.5	5.8	3.9	3.1
	48.0	5.4	5.6	5.7	6.0	6.0	5.8	3.8	3.0
	50.0	4.8	5.1	5.3	5.5	5.5	5.7	3.7	3.0
	52.0	4.1	4.4	4.9	5.1	5.1	5.5	3.6	2.9
54.0			4.5	4.7	4.7	5.0	3.5	2.9	
56.0			3.9	4.3	4.4	4.6	3.4	2.8	
58.0			3.3	3.6	4.0	4.3	3.3	2.8	
60.0				2.9	3.6	3.9	3.2	2.7	
62.0					3.1	3.5	3.2	2.7	
64.0					2.6	2.9	3.1	2.7	
66.0						2.3	2.8	2.6	
68.0							2.4	2.6	
70.0								2.3	
No. of Part line	2	2	2	1	1	1	1	1	

### Boom length: 48.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	14.0	14.4m 23.0							
	16.0	22.6		17.1m 16.9					
	18.0	22.3	18.3m 18.9	16.8			19.3m 10.5		
	20.0	21.9	18.7	16.5			10.4		21.1m 6.2
	22.0	19.5	18.5	16.2	22.5m 12.0	10.0		6.1	
	24.0	17.2	18.0	15.9	12.0	9.7		5.8	
	26.0	15.2	15.9	15.6	12.0	9.4	26.2m 7.2	5.6	
	28.0	13.6	14.2	14.1	12.0	9.1	7.0	5.4	29.6m 3.9
	30.0	12.2	12.8	12.7	11.8	8.8	6.8	5.2	3.9
	32.0	11.0	11.5	11.5	11.7	8.6	6.7	5.0	3.7
	34.0	10.0	10.5	10.4	11.1	8.4	6.6	4.8	3.6
	36.0	9.1	9.5	9.5	10.1	8.1	6.4	4.7	3.5
	38.0	8.3	8.6	8.7	9.2	7.9	6.3	4.5	3.5
	40.0	7.5	7.9	7.9	8.4	7.7	6.2	4.4	3.4
	42.0	6.9	7.2	7.3	7.7	7.5	6.1	4.2	3.3
	44.0	6.3	6.6	6.7	7.1	6.9	6.0	4.1	3.2
	46.0	5.8	6.0	6.1	6.5	6.4	5.9	4.0	3.1
	48.0	5.3	5.5	5.6	5.9	5.9	5.8	3.9	3.1
	50.0	4.8	5.0	5.2	5.5	5.4	5.8	3.8	3.0
	52.0	4.3	4.5	4.7	5.0	5.0	5.4	3.7	2.9
54.0	3.7	4.0	4.3	4.6	4.6	5.0	3.6	2.9	
56.0		3.3	3.9	4.2	4.2	4.6	3.5	2.8	
58.0			3.5	3.7	3.8	4.2	3.4	2.8	
60.0				2.9	3.3	3.5	3.3	2.8	
62.0					2.6	3.2	3.4	2.7	
64.0						2.7	3.1	2.7	
66.0						2.3	2.6	2.7	
68.0							2.1	2.5	
70.0								2.5	
72.0								1.7	
74.0								1.6	
No. of Part line	2	2	2	1	1	1	1	1	

# CRANE

## STANDARD BOOM CRANE

### Crane Jib Rated Lifting Loads

### 61.0t Counterweight

#### Boom length: 51.0m

unit:ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	14.0	14.9m 23.0							
	16.0	22.7		17.6m 16.9					
	18.0	22.4	18.8m 18.9	16.9		19.8m 10.5			
	20.0	22.0	18.7	16.6		10.5		21.6m 6.2	
	22.0	19.4	18.6	16.3	23.0m 12.0	10.1		6.1	
	24.0	17.0	17.9	16.0	12.0	9.8		5.9	
	26.0	15.1	15.8	15.6	12.0	9.5	26.7m 7.2	5.7	
	28.0	13.5	14.1	14.0	12.0	9.2	7.0	5.5	
	30.0	12.1	12.7	12.6	11.9	9.0	6.9	5.3	30.1m 3.9
	32.0	10.9	11.4	11.3	11.7	8.7	6.8	5.1	3.8
	34.0	9.9	10.3	10.3	11.0	8.5	6.6	4.9	3.7
	36.0	8.9	9.4	9.4	10.0	8.3	6.5	4.8	3.6
	38.0	8.1	8.5	8.5	9.1	8.1	6.4	4.6	3.5
	40.0	7.4	7.8	7.8	8.3	7.9	6.3	4.5	3.4
	42.0	6.7	7.1	7.1	7.6	7.4	6.2	4.3	3.3
	44.0	6.2	6.5	6.5	7.0	6.8	6.1	4.2	3.3
	46.0	5.6	5.9	6.0	6.4	6.3	6.0	4.1	3.2
	48.0	5.1	5.4	5.5	5.8	5.7	5.9	4.0	3.1
	50.0	4.6	4.9	5.0	5.4	5.3	5.7	3.9	3.0
	52.0	4.2	4.4	4.6	4.9	4.9	5.3	3.8	3.0
	54.0	3.7	3.9	4.2	4.5	4.5	4.9	3.7	2.9
	56.0	3.1	3.4	3.8	4.0	4.1	4.5	3.6	2.9
	58.0	2.5	2.8	3.4	3.6	3.7	4.1	3.5	2.8
	60.0			2.9	3.2	3.3	3.7	3.4	2.8
	62.0			2.4	2.7	3.0	3.3	3.2	2.7
	64.0				2.2	2.6	3.0	2.9	2.7
	66.0					2.2	2.6	2.6	2.7
	68.0					1.8	2.2	2.3	2.7
70.0						1.7	2.0	2.3	
72.0							1.6	2.0	
74.0								1.6	
No. of Part line	2	2	2	1	1	1	1	1	

#### Boom length: 54.0m

unit:ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	14.0	15.4m 23.0							
	16.0	22.8							
	18.0	22.5	19.4m 18.9	18.1m 16.9					
	20.0	22.0	18.8	16.7			20.4m 10.5		
	22.0	19.2	18.6	16.4	23.5m 12.0	10.2		22.2m 6.2	
	24.0	16.8	17.7	16.1	12.0	9.9		6.0	
	26.0	14.9	15.7	15.4	12.0	9.6	27.3m 7.1	5.7	
	28.0	13.3	14.0	13.8	12.0	9.3	7.1	5.5	
	30.0	11.9	12.5	12.4	12.0	9.1	6.9	5.3	30.6m 3.9
	32.0	10.7	11.3	11.2	11.8	8.8	6.8	5.2	3.8
	34.0	9.6	10.2	10.1	10.8	8.6	6.7	5.0	3.7
	36.0	8.7	9.2	9.2	9.8	8.4	6.5	4.8	3.6
	38.0	7.9	8.3	8.3	8.9	8.2	6.4	4.7	3.5
	40.0	7.2	7.6	7.6	8.1	7.9	6.3	4.5	3.4
	42.0	6.5	6.9	6.9	7.4	7.2	6.2	4.4	3.4
	44.0	5.9	6.3	6.3	6.8	6.6	6.1	4.3	3.3
	46.0	5.4	5.7	5.8	6.2	6.1	6.0	4.2	3.2
	48.0	4.9	5.2	5.3	5.7	5.5	5.9	4.0	3.2
	50.0	4.4	4.7	4.8	5.2	5.1	5.6	3.9	3.1
	52.0	3.9	4.2	4.3	4.7	4.7	5.1	3.8	3.0
	54.0	3.5	3.7	3.9	4.3	4.2	4.7	3.7	3.0
	56.0	3.0	3.2	3.5	3.8	3.8	4.3	3.6	2.9
	58.0	2.5	2.8	3.1	3.4	3.4	3.9	3.6	2.9
	60.0	1.9	2.2	2.7	3.0	3.1	3.5	3.3	2.8
	62.0			2.3	2.6	2.7	3.1	3.0	2.8
	64.0			1.9	2.2	2.4	2.7	2.6	2.7
	66.0				1.7	2.0	2.4	2.3	2.7
	68.0					1.7	2.0	2.0	2.4
70.0						1.7	1.7	2.1	
72.0							1.5	1.8	
74.0								1.5	
No. of Part line	2	2	2	1	1	1	1	1	



STANDARD BOOM CRANE

Crane Jib Rated Lifting Loads

61.0t Counterweight

Boom length: 57.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	16.0	16.0m 23.0							
	18.0	22.6		18.7m 16.9					
	20.0	22.0	19.9m 18.9	16.7		20.9m 10.5			
	22.0	19.1	18.7	16.5		10.3		22.7m 6.2	
	24.0	16.7	17.6	16.2	24.0m 12.0	10.0		6.0	
	26.0	14.8	15.6	15.3	12.0	9.7	27.9m 7.9	5.8	
	28.0	13.2	13.9	13.7	12.0	9.4	7.1	5.6	
	30.0	11.8	12.4	12.3	12.0	9.2	7.0	5.4	31.2m 3.9
	32.0	10.6	11.2	11.0	11.9	8.9	6.9	5.2	3.8
	34.0	9.5	10.1	10.0	10.7	8.7	6.7	5.1	3.7
	36.0	8.6	9.1	9.0	9.7	8.5	6.6	4.9	3.7
	38.0	7.8	8.2	8.2	8.8	8.3	6.5	4.8	3.6
	40.0	7.1	7.5	7.5	8.1	7.8	6.4	4.6	3.5
	42.0	6.4	6.8	6.8	7.3	7.1	6.3	4.5	3.4
	44.0	5.8	6.2	6.2	6.7	6.5	6.2	4.4	3.3
	46.0	5.3	5.6	5.7	6.1	5.9	6.1	4.2	3.3
	48.0	4.7	5.1	5.2	5.6	5.4	6.0	4.1	3.2
	50.0	4.2	4.5	4.6	5.1	5.0	5.5	4.0	3.1
	52.0	3.7	4.0	4.2	4.6	4.5	5.0	3.9	3.1
	54.0	3.3	3.6	3.7	4.1	4.1	4.6	3.8	3.0
	56.0	2.9	3.1	3.3	3.7	3.7	4.2	3.7	3.0
	58.0	2.4	2.7	2.9	3.3	3.3	3.7	3.5	2.9
	60.0	1.9	2.2	2.5	2.9	2.9	3.4	3.1	2.9
	62.0			2.2	2.5	2.5	3.0	2.8	2.8
	64.0			1.8	2.1	2.2	2.6	2.4	2.8
	66.0				1.7	1.9	2.2	2.1	2.6
	68.0					1.6	1.9	1.8	2.3
	70.0						1.6	1.6	2.0
72.0								1.7	
No. of Part line	2	2	2	1	1	1	1	1	

Boom length: 60.0m

unit: ton

Jib length (m)		13.0		19.0		25.0		31.0	
Jib offset angle		10°	30°	10°	30°	10°	30°	10°	30°
Working radius (m)	16.0	16.5m 23.0							
	18.0	22.7		19.2m 16.9					
	20.0	21.8	20.4m 18.9	16.8		21.4m 10.5			
	22.0	19.0	18.7	16.6		10.4		23.2m 6.2	
	24.0	16.6	17.5	16.3	24.5m 12.0	10.1		6.1	
	26.0	14.7	15.5	15.2	12.0	9.8		5.9	
	28.0	13.0	13.8	13.6	12.0	9.5	28.3m 7.1	5.7	
	30.0	11.6	12.3	12.1	12.0	9.3	7.0	5.5	31.7m 3.9
	32.0	10.4	11.1	10.9	11.8	9.1	6.9	5.3	3.9
	34.0	9.4	10.0	9.8	10.6	8.8	6.8	5.1	3.8
	36.0	8.5	9.0	8.9	9.6	8.6	6.6	5.0	3.7
	38.0	7.7	8.1	8.1	8.7	8.4	6.5	4.8	3.6
	40.0	6.9	7.4	7.3	7.9	7.6	6.4	4.7	3.5
	42.0	6.3	6.7	6.7	7.2	7.0	6.3	4.6	3.4
	44.0	5.7	6.0	6.1	6.6	6.3	6.2	4.4	3.4
	46.0	5.1	5.5	5.5	6.0	5.8	6.1	4.3	3.3
	48.0	4.5	4.9	5.0	5.5	5.3	5.9	4.2	3.2
	50.0	4.0	4.4	4.5	5.0	4.8	5.4	4.1	3.2
	52.0	3.6	3.9	4.0	4.5	4.3	4.9	4.0	3.1
	54.0	3.1	3.4	3.6	4.0	3.9	4.5	3.9	3.0
	56.0	2.7	3.0	3.1	3.6	3.5	4.0	3.7	3.0
	58.0	2.3	2.5	2.7	3.1	3.1	3.6	3.3	2.9
	60.0	1.8	2.1	2.3	2.7	2.7	3.2	2.9	2.9
	62.0			2.0	2.3	2.3	2.8	2.6	2.9
	64.0				1.9	2.0	2.4	2.3	2.8
	66.0				1.6	1.7	2.1	1.9	2.5
	68.0						1.7	1.6	2.2
	70.0						1.4	1.6	1.8
72.0								1.5	
No. of Part line	2	2	2	1	1	1	1	1	

Boom length: 63.0m

unit: ton

Jib length (m)		13.0		19.0	
Jib offset angle		10°	30°	10°	30°
Working radius (m)	16.0	17.0m 23.0			
	18.0	22.8		19.7m 16.9	
	20.0	21.7	20.9m 18.9	16.9	
	22.0	18.8	18.8	16.6	
	24.0	16.4	17.4	16.4	25.1m 12.0
	26.0	14.5	15.4	15.0	12.0
	28.0	12.8	13.6	13.4	12.0
	30.0	11.4	12.2	12.0	12.0
	32.0	10.2	10.9	10.7	11.6
	34.0	9.2	9.8	9.7	10.5
	36.0	8.3	8.8	8.7	9.5
	38.0	7.4	8.0	7.9	8.6
	40.0	6.7	7.2	7.1	7.8
	42.0	6.1	6.5	6.5	7.1
	44.0	5.4	5.9	5.9	6.4
	46.0	4.8	5.3	5.3	5.8
	48.0	4.3	4.7	4.7	5.3
	50.0	3.8	4.2	4.2	4.8
	52.0	3.3	3.6	3.7	4.3
	54.0	2.8	3.1	3.3	3.8
	56.0	2.4	2.7	2.8	3.3
	58.0	2.0	2.3	2.4	2.9
60.0		1.9	2.1	2.5	
62.0				2.1	
64.0				1.7	
No. of Part line	2	2	2	1	

Standard Boom Rated Lifting Loads

51.2t Counterweight

unit: ton

Working radius (m)	Boom length (m)																	
	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	
4.5	120.0																	
5.0	120.0	120.0																
5.5	120.0	114.0	106.0															
6.0	110.0	106.0	102.0	6.1m 96.0	6.6m 84.0													
7.0	85.8	85.7	85.6	85.5	84.0	7.1m 72.0	7.6m 72.0											
8.0	68.4	68.3	68.2	68.1	68.0	67.9	67.8	8.2m 60.0	8.7m 59.3									
9.0	56.7	56.6	56.5	56.4	56.3	56.2	56.1	56.0	55.9	9.2m 48.0	9.7m 48.0							
10.0	48.3	48.2	48.1	48.0	47.9	47.8	47.7	47.6	47.5	47.4	47.3	10.2m 36.0	10.8m 36.0	11.3m 36.0	11.8m 36.0			
12.0	37.0	36.9	36.8	36.7	36.6	36.5	36.4	36.3	36.2	36.1	36.0	35.9	35.8	35.7	35.6	12.3m 24.0	12.8m 24.0	
14.0	29.7	29.6	29.5	29.4	29.3	29.2	29.1	29.0	28.9	28.8	28.7	28.6	28.5	28.4	28.3	24.0	24.0	
16.0	14.7m 27.8	24.7	24.6	24.5	24.4	24.3	24.2	24.1	24.0	23.9	23.7	23.6	23.5	23.4	23.3	23.2	22.3	
18.0		17.3m 22.3	20.9	20.8	20.7	20.6	20.5	20.4	20.3	20.2	20.0	19.9	19.8	19.6	19.5	19.4	19.3	
20.0			19.9m 18.3	18.0	17.9	17.8	17.7	17.5	17.4	17.3	17.1	17.0	16.9	16.8	16.7	16.6	16.5	
22.0				15.8	15.6	15.5	15.4	15.3	15.1	15.0	14.9	14.8	14.7	14.5	14.4	14.3	14.2	
24.0				22.5m 15.4	13.8	13.7	13.6	13.4	13.3	13.2	13.0	12.9	12.8	12.7	12.6	12.5	12.4	
26.0					25.1m 13.0	12.2	12.1	11.9	11.8	11.7	11.5	11.4	11.3	11.1	11.0	10.9	10.8	
28.0						27.7m 11.1	10.8	10.6	10.5	10.4	10.2	10.1	10.0	9.9	9.8	9.7	9.6	
30.0							9.7	9.6	9.4	9.3	9.1	9.0	8.9	8.8	8.7	8.6	8.5	
32.0								30.3m 9.6	8.6	8.5	8.4	8.2	8.1	8.0	7.8	7.7	7.6	7.5
34.0									32.9m 8.3	7.7	7.6	7.4	7.3	7.2	7.0	6.9	6.8	6.7
36.0										35.5m 7.2	6.9	6.7	6.6	6.5	6.3	6.2	6.1	6.0
38.0											38.1m 6.2	6.0	5.9	5.8	5.6	5.5	5.4	5.3
40.0												5.5	5.4	5.3	5.1	5.0	4.9	4.8
42.0											40.7m 5.3	4.9	4.8	4.6	4.5	4.4	4.3	4.3
44.0												43.2m 4.6	4.3	4.1	4.0	3.9	3.8	3.8
46.0													45.8m 3.9	3.7	3.6	3.5	3.4	3.4
48.0														3.3	3.2	3.1	3.0	3.0
50.0															48.4m 3.2	3.0	2.9	2.8
52.0																51.0m 2.9	2.6	2.3
54.0																	53.6m 2.2	1.9
56.0																		1.4
58.0																		56.2m 1.4
No. of Part line	10	10	9	8	7	6	6	5	5	4	4	3	3	3	3	2	2	2

Note:

- THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
- THE FIGURE ENCLOSED WITHIN BOLD LINES IN THIS TABLE ARE THE VALUES DETERMINED BASED ON THE STRENGTH OF THE BOOM, ETC.
- THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
- FOR THE OPERATION, BE SURE TO RAISE THE A-FRAME.
- THE LENGTH OF THE JIB WHICH CAN BE MOUNTED TO THE BOOM IS AS SHOWN BELOW:
- THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.  
140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
40t Hook...0.8t    12t Hook...0.4t
- WHEN THE JIB IS MOUNTED, THE RATED LOAD WITH THE MAIN HOOK IS OBTAINED BY SUBTRACTING THE VALUE AS SHOWN BELOW (INCLUDING THE MASS OF THE AUX. HOOK) FROM THE VALUES GIVEN IN THIS TABLE.
- THE RATED LOAD OF THE AUX. JIB IS OBTAINED BY SUBTRACTING 0.4t FROM THE VALUES GIVEN IN THIS TABLE CORRESPONDING TO THE LENGTH OF THE MOUNTED BOOM. BUT THE MAX. RATED LOAD IS 12.0ton. THE RATED LOAD WITH THE JIB OF 13.0m TO 31.0m LONG REFERS TO THE JIB RATED LOAD TABLE.
- WHEN THE MAIN HOOK IS MOUNTED THE LOAD WHICH CAN BE LIFTED WITH THE JIB IS GIVEN BY SUBTRACTING THE TOTAL MASS OF MAIN AND AUX. HOOKS FROM THE VALUE IN THIS TABLE.
- THE RATED LOAD ARE LIMITED ACCORDING TO THE WIRE ROPE PART LINE AS SHOWN BELOW:  
1 PART OF LINE ... UP TO 12.0ton    5 PART OF LINE ... UP TO 67.5ton    9 PART OF LINE ... UP TO 121.5ton  
2 PART OF LINE ... UP TO 27.0ton    6 PART OF LINE ... UP TO 81.0ton    10 PART OF LINE ... UP TO 140.0ton  
3 PART OF LINE ... UP TO 40.5ton    7 PART OF LINE ... UP TO 94.5ton  
4 PART OF LINE ... UP TO 54.0ton    8 PART OF LINE ... UP TO 108.0ton

Aux. Jib Rated Lifting Loads

51.2t Counterweight

unit: ton

Working radius (m)	Boom length (m)															
	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0
5.0	5.3m 12.0	5.8m 12.0														
6.0	12.0	12.0	6.3m 12.0	6.9m 12.0												
7.0	12.0	12.0	12.0	12.0	7.4m 12.0	7.9m 12.0										
8.0	12.0	12.0	12.0	12.0	12.0	12.0	8.4m 12.0									
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	9.5m 12.0							
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.5m 12.0	11.0m 12.0	11.6m 12.0			
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.1m 12.0	12.6m 12.0	13.1m 12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
18.0	16.2m 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
20.0		18.8m 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
22.0			21.4m 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
24.0				12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
26.0					12.0	11.8	11.7	11.5	11.4	11.3	11.1	11.0	10.9	10.7	10.6	10.5
28.0					26.6m 11.4	10.5	10.4	10.2	10.1	10.0	9.8	9.7	9.6	9.5	9.4	9.3
30.0						29.2m 9.7	9.3	9.2	9.0	8.9	8.7	8.6	8.5	8.4	8.3	8.2
32.0							31.8m 8.4	8.2	8.1	8.0	7.8	7.7	7.6	7.4	7.3	7.2
34.0								7.4	7.3	7.2	7.0	6.9	6.8	6.6	6.5	6.4
36.0								34.4m 7.1	6.6	6.5	6.3	6.2	6.1	5.9	5.8	5.7
38.0									37.0m 6.1	5.8	5.6	5.5	5.4	5.2	5.1	5.0
40.0										39.6m 5.4	5.1	5.0	4.9	4.7	4.6	4.5
42.0											4.6	4.5	4.3	4.2	4.1	4.0
44.0											42.2m 4.4	4.0	3.9	3.7	3.6	3.5
46.0												44.7m 3.7	3.5	3.3	3.2	3.1
48.0													47.3m 3.1	2.9	2.8	2.7
50.0														49.9m 2.6	2.6	2.5
52.0															2.3	2.2
54.0															52.5m 2.1	1.8
56.0																55.1m 1.5
No. of Part line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note:

1. THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
2. THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
3. THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.

140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
 40t Hook...0.8t    12t Hook...0.4t

Standard Boom Rated Lifting Loads

41.4t Counterweight

unit: ton

Working radius (m)	Boom length (m)															
	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0
4.5	120.0															
5.0	120.0	120.0														
5.5	120.0	114.0	106.0													
6.0	100.2	100.1	100.0	6.1m 96.0	6.6m 83.6											
7.0	75.1	75.0	74.9	74.8	74.7	7.1m 71.4	7.6m 63.6									
8.0	59.8	59.7	59.6	59.5	59.4	59.3	59.2	8.2m 57.2	8.7m 51.8							
9.0	49.5	49.4	49.3	49.2	49.1	49.0	48.9	48.8	48.7	9.2m 47.3	9.7m 42.7					
10.0	42.1	42.0	41.9	41.8	41.7	41.6	41.5	41.4	41.3	41.2	41.1	10.2m 36.0	10.8m 36.0	11.3m 34.0	11.8m 31.5	
12.0	32.2	32.1	32.0	31.9	31.8	31.7	31.6	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	12.3m 24.0
14.0	25.8	25.7	25.6	25.5	25.4	25.3	25.2	25.1	25.0	24.9	24.8	24.7	24.6	24.5	24.4	24.0
16.0	14.7m 24.3	21.3	21.2	21.1	21.0	20.9	20.8	20.7	20.6	20.5	20.4	20.3	20.2	20.0	19.9	19.8
18.0		17.3m 19.3	18.0	17.9	17.8	17.7	17.6	17.5	17.3	17.2	17.1	17.0	16.9	16.7	16.6	16.5
20.0			19.9m 15.7	15.4	15.3	15.2	15.1	15.0	14.8	14.7	14.5	14.4	14.3	14.2	14.1	14.0
22.0				13.5	13.3	13.2	13.1	13.0	12.8	12.7	12.6	12.5	12.4	12.2	12.1	12.0
24.0				22.5m 13.1	11.7	11.6	11.5	11.3	11.2	11.1	10.9	10.8	10.7	10.6	10.5	10.4
26.0					25.1m 11.0	10.3	10.2	10.0	9.9	9.8	9.6	9.5	9.4	9.2	9.1	9.0
28.0						27.7m 9.3	9.1	8.9	8.8	8.7	8.5	8.4	8.3	8.1	8.0	7.9
30.0							8.1	7.9	7.8	7.7	7.5	7.4	7.3	7.1	7.0	6.9
32.0							30.3m 8.0	7.1	7.0	6.9	6.7	6.6	6.5	6.3	6.2	6.1
34.0								32.9m 6.8	6.2	6.1	6.0	5.9	5.8	5.6	5.5	5.4
36.0									35.5m 5.8	5.5	5.3	5.2	5.1	5.0	4.9	4.8
38.0										38.1m 5.0	4.8	4.7	4.6	4.4	4.3	4.2
40.0											4.3	4.2	4.1	3.9	3.8	3.7
42.0											40.7m 4.1	3.7	3.6	3.4	3.3	3.2
44.0												43.2m 3.5	3.2	3.0	2.9	2.8
46.0													45.8m 2.9	2.6	2.5	2.4
48.0														2.1	2.0	1.9
50.0														48.4m 2.1	1.9	1.7
52.0															51.0m 1.7	1.4
No. of Part line	10	10	9	8	7	6	6	5	5	4	4	3	3	3	3	2

Note:

- THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
- THE FIGURE ENCLOSED WITHIN BOLD LINES IN THIS TABLE ARE THE VALUES DETERMINED BASED ON THE STRENGTH OF THE BOOM, ETC.
- THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
- FOR THE OPERATION, BE SURE TO RAISE THE A-FRAME.
- THE LENGTH OF THE JIB WHICH CAN BE MOUNTED TO THE BOOM IS AS SHOWN BELOW:
- THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.  
140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
40t Hook...0.8t    12t Hook...0.4t
- WHEN THE JIB IS MOUNTED, THE RATED LOAD WITH THE MAIN HOOK IS OBTAINED BY SUBTRACTING THE VALUE AS SHOWN BELOW (INCLUDING THE MASS OF THE AUX. HOOK) FROM THE VALUES GIVEN IN THIS TABLE.
- THE RATED LOAD OF THE AUX. JIB IS OBTAINED BY SUBTRACTING 0.4t FROM THE VALUES GIVEN IN THIS TABLE CORRESPONDING TO THE LENGTH OF THE MOUNTED BOOM. BUT THE MAX. RATED LOAD IS 12.0ton. THE RATED LOAD WITH THE JIB OF 13.0m TO 31.0m LONG REFERS TO THE JIB RATED LOAD TABLE.
- WHEN THE MAIN HOOK IS MOUNTED THE LOAD WHICH CAN BE LIFTED WITH THE JIB IS GIVEN BY SUBTRACTING THE TOTAL MASS OF MAIN AND AUX. HOOKS FROM THE VALUE IN THIS TABLE.
- THE RATED LOAD ARE LIMITED ACCORDING TO THE WIRE ROPE PART LINE AS SHOWN BELOW:  
1 PART OF LINE ... UP TO 12.0ton    5 PART OF LINE ... UP TO 67.5ton    9 PART OF LINE ... UP TO 121.5ton  
2 PART OF LINE ... UP TO 27.0ton    6 PART OF LINE ... UP TO 81.0ton    10 PART OF LINE ... UP TO 140.0ton  
3 PART OF LINE ... UP TO 40.5ton    7 PART OF LINE ... UP TO 94.5ton  
4 PART OF LINE ... UP TO 54.0ton    8 PART OF LINE ... UP TO 108.0ton

Aux. Jib Rated Lifting Loads

41.4t Counterweight

unit: ton

Working radius (m)	Boom length (m)														
	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0
5.0	5.3m 12.0	5.8m 12.0													
6.0	12.0	12.0	6.3m 12.0	6.9m 12.0											
7.0	12.0	12.0	12.0	12.0	7.4m 12.0	7.9m 12.0									
8.0	12.0	12.0	12.0	12.0	12.0	12.0	8.4m 12.0								
9.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	9.5m 12.0						
10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.5m 12.0	11.0m 12.0	11.6m 12.0		
12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.1m 12.0	12.6m 12.0
14.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
18.0	16.2m 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
20.0		18.8m 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
22.0			21.4m 12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.8	11.7
24.0				11.5	11.3	11.2	11.1	10.9	10.8	10.7	10.5	10.4	10.3	10.2	10.1
26.0					10.0	9.9	9.8	9.6	9.5	9.4	9.2	9.1	9.0	8.8	8.7
28.0					26.6m 9.5	8.8	8.7	8.5	8.4	8.3	8.1	8.0	7.9	7.7	7.6
30.0						29.2m 8.0	7.7	7.5	7.4	7.3	7.1	7.0	6.9	6.7	6.6
32.0							31.8m 6.9	6.7	6.6	6.5	6.3	6.2	6.1	5.9	5.8
34.0								6.0	5.8	5.7	5.6	5.5	5.4	5.2	5.1
36.0								34.4m 5.8	5.2	5.1	4.9	4.8	4.7	4.6	4.5
38.0									37.0m 4.8	4.6	4.4	4.3	4.2	4.0	3.9
40.0										39.6m 4.1	3.9	3.8	3.7	3.5	3.4
42.0											3.4	3.3	3.2	3.0	2.9
44.0											42.2m 3.3	2.9	2.8	2.6	2.5
46.0												44.7m 2.7	2.5	2.2	2.1
48.0													47.3m 2.1	1.7	1.6
50.0														49.9m 1.3	1.5
52.0															1.1
54.0															52.5m 1.0
No. of Part line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

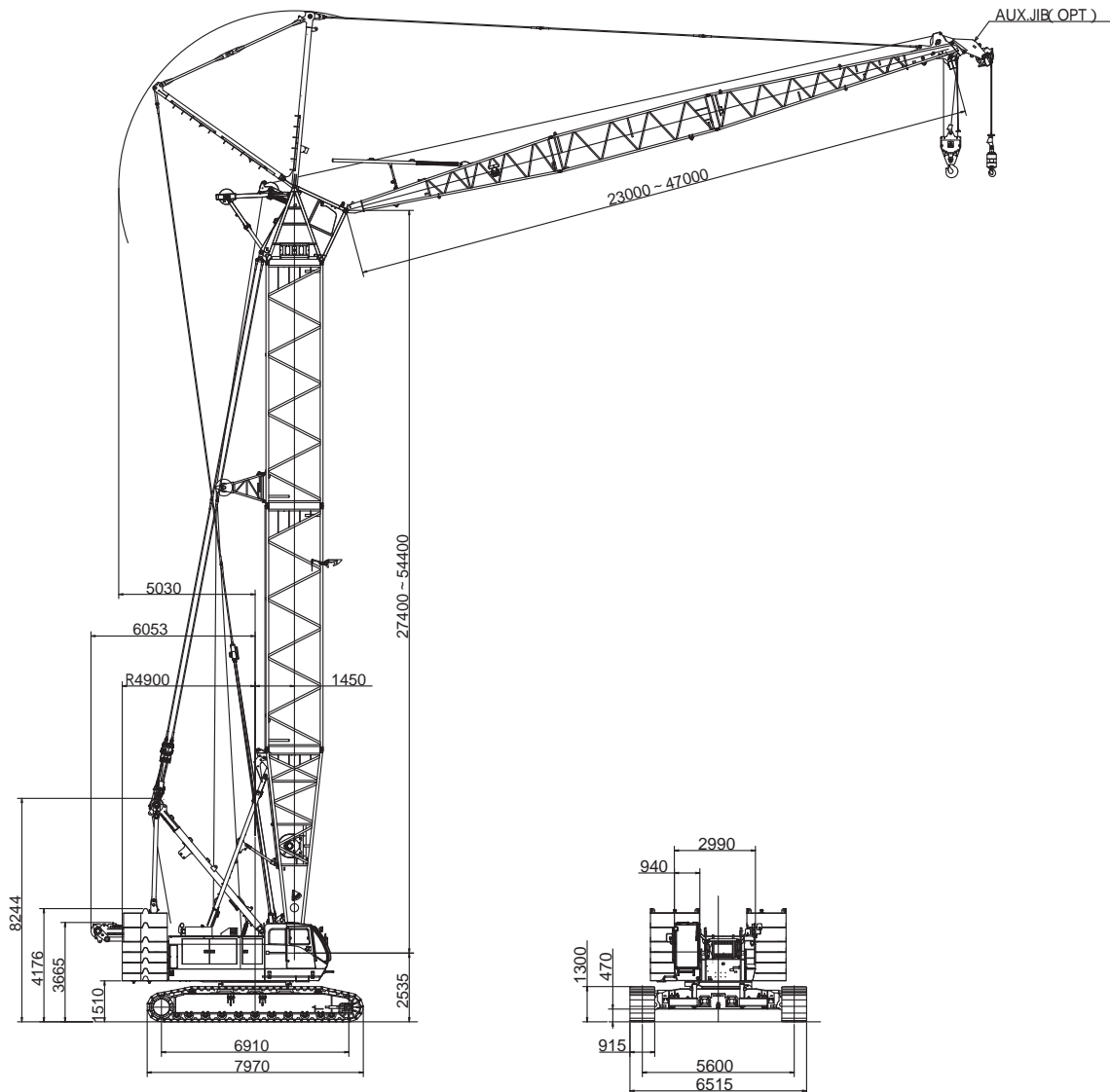
Note:

1. THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
2. THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
3. THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK,AUX. HOOK,ETC. FROM THE VALUES GIVEN IN THIS TABLE.

140t Hook...2.4t    120t Hook...1.7t    80t Hook...1.4t    60t Hook...1.4t  
 40t Hook...0.8t    12t Hook...0.4t

# LUFFING TOWER

## Dimensions



### CCH1400 Main Specification

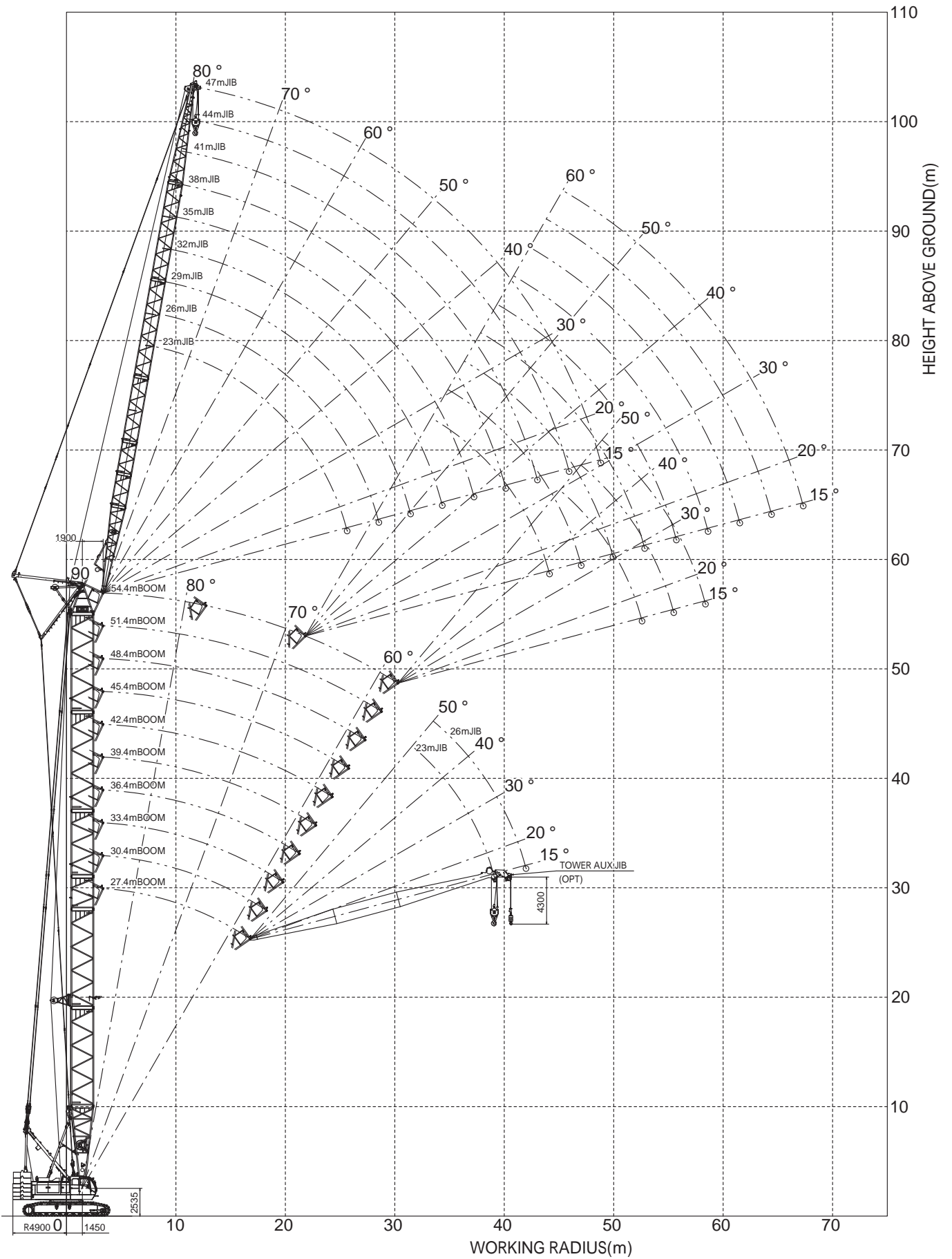
PERFORMANCE		
Slewing speed	2.1min <sup>-1</sup>	
Travel speed	1.5/1.0km/hr	
Gradeability	30% (16.7 °)	
Engine	Manufacturer	Cummins Inc.
	Model	QSL
	Emission Certification	U.S.EPA Tier3, CARB Tier3, EU Stage A
	Type	4-cycle, water-cooled, turbocharged and air cooled
	Rated output	242kW /2,000min <sup>-1</sup>
	Total displacement	8.9L
	Fuel tank capacity	420L
	Battery	12V x 2pcs.

### Crane Specification

PERFORMANCE		
Maximum lifting capacity x working radius	35ton x 8.0m	
Max. height of hook from ground	98.9m (54.4m post + 47.0m jib)	
Rope speed	hoisting/ lowering	115m/min
	Boom hoisting/ lowering	73m/min
Rope part lines	40t hook	3 part lines
	12t hook	1 part line
	Boom hoist	12 part lines
Line Pull	Jib hoist	8 part lines
	Max. Line Pull	19.7t / 193kN
	Rated Line Pull	12.0t / 118kN
Counterweight	61.0t	
Crane total weight (basic specification)	Approx. 153t (54.4m post + 47.0m jib + 40t hook)	
Average ground bearing pressure	Approx. 111kPa (1.13kgf/cm <sup>2</sup> )	

\* The value marked with "\*" will be changed according to the loads given.

Working Ranges Diagram



# LUFFING TOWER

## Tower Boom and Jib Combination

### Tower Boom Combination

9R : 9m insert boom with rail, 9G : 9m insert boom with guide sheave

Boom length (m)	Tower boom combination
27.4	
30.4	
33.4	
36.4	
39.4	
42.4	
45.4	
48.4	
51.4	
54.4	

### Tower Jib Combination

Jib length (m)	Tower jib combination
23.0	
26.0	
29.0	
32.0	
35.0	
38.0	
41.0	
44.0	
47.0	

mark : Normalguide-roller position  
 mark : Additional guide-roller position

## Tower Boom and Jib Combination

Tower Boom length (m)	Tower Jib length (m)								
	23.0	26.0	29.0	32.0	35.0	38.0	41.0	44.0	47.0
27.4	*1*2	*2*3							
30.4	*1*2	*2	*2*3						
33.4	*1*2	*2	*2	*2*3					
36.4	*1*2	*2	*2	*2	*2*3				
39.4	*1					*3			
42.4	*1						*3		
45.4	*1							*3	
48.4	*1						*3	*3	*3
51.4	*1					*3	*3	*3	*3
54.4	*1*3	*1*3	*3	*3	*3	*3	*3	*3	*3

: Tower Boom angle 90° ~ 60°

: Tower Boom angle 90° ~ 70°

\*1: Use of 1 part of line is no allowed.

\*2: 40ton hook can be used with 3 parts of line.

\*3: The TW-Aux jib cannot be mounted to the tower jib.

## Wire Rope

Purpose	Rope dia (mm)	Breaking strength (kN)	Rope type
Load hoisting	φ26	598	P·S (19) + 39xP·7
Aux. Jib load hoisting	φ26	598	P·S (19) + 39xP·7
Boom hoisting	φ22.4	357	IWRC 6xWS (31)
Jib hoisting	φ22.4	357	IWRC 6xWS (31)
Boom suspension	φ34	1020	IWRC 6xP·WS (36)
Jib boom suspension	φ34	1020	IWRC 6xP·WS (36)
Jib strut suspension	φ34	1020	IWRC 6xP·WS (36)



## Rated Lifting Loads

## 61.0t Counterweight

### Tower Boom Length : 27.4m

unit : ton

Boom length (m)		27.4							
Jib length (m)		23.0				26.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 35.0							
	8.0	35.0				8.1m 34.0			
	9.0	32.5				31.0			
	10.0	30.2				28.0			
	12.0	25.7				25.0			
	14.0	23.0				22.8			
	16.0	20.9	16.1m 20.5			20.8	17.1m 20.0		
	18.0	18.6	19.5			18.9	19.5		
	20.0	16.9	17.9			17.3	17.8		
	22.0	15.3	16.3			15.6	16.2		
	24.0	12.8	14.9	24.2m 14.7		14.1	14.9	25.7m 13.1	
	26.0	25.3m 10.7	13.8	13.6		12.1	13.8	12.9	
	28.0		12.8	12.5		9.2	12.8	12.2	
	30.0		11.8	11.5	31.5m 10.6	28.2m 8.8	12.0	11.4	
	32.0			10.6	10.4	28.8m 7.9	11.3	10.6	33.5m 9.9
	34.0			9.9	9.7		32.9m 10.5	9.9	9.7
	36.0			34.5m 9.7	9.0		33.5m 9.8	9.4	9.1
	38.0				8.4			37.4m 8.6	8.5
	40.0				38.7m 8.2			38.1m 8.5	8.0
	42.0								41.6m 7.6
44.0								42.2m 7.4	
46.0									
48.0									

Note:

- THE VALUES OF RATED LOAD GIVEN IN THIS TABLE ARE THE LOAD OF WITHIN 75% OF TIPPING LOAD AND WITH THE FORWARD STABILITY OF 1.15 OR HIGHER FOR FULL SWINGING OF 360 DEGREES ON A FIRM LEVEL GROUND.
- THE FIGURE ENCLOSED WITHIN BOLD LINES IN THIS TABLE ARE THE VALUES DETERMINED BASED ON THE STRENGTH OF THE BOOM, ETC.
- THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE HOOK AXIS.
- FOR THE OPERATION, BE SURE TO RAISE THE A-FRAME.
- IN THE CASE OF THE 23m TOWER JIB OR THE 26m TOWER JIB WITH A TOWER POST OF 54.4m, THE LIFTING WORK CAN NOT BE DONE WITH 1 PART OF LINE.
- IN CASE OF THE TOWER AUX. JIB MOUNT, REFER TO THE TOWER POST AND TOWER JIB COMBINATION DIAGRAM.
- THE ANGLE FORMED BY THE CENTER LINE OF POST AND TOWER JIB (OFFSET ANGLE) SHOULD NOT BE ALWAYS BELOW 10 DEGREES.
- THE ANGLE FORMED BY THE CENTER LINE OF TOWER JIB AND THE HORIZONTAL SHOULD NOT BE BELOW 15 DEGREES IN CASE OF LIFTING WORK.
- THE ACTUAL LIFTING LOAD IS OBTAINED BY SUBTRACTING THE MASS OF ALL LIFTING EQUIPMENT SUCH AS THE MAIN HOOK, AUX. HOOK, ETC. FROM THE VALUES GIVEN IN THIS TABLE.  
40t Hook...0.8t  
12t Hook...0.4t
- WHEN THE TW-AUX. JIB IS MOUNTED, THE RATED LOAD WITH TOWER JIB IS OBTAINED BY SUBTRACTING 1.0t (INCLUDING THE MASS OF THE AUX. HOOK) FROM THE VALUES GIVEN IN THIS TABLE.
- THE RATED LOAD OF THE TW-AUX. JIB IS OBTAINED BY SUBTRACTING 0.5t FROM THE VALUES GIVEN IN THIS TABLE CORRESPONDING TO THE LENGTH OF THE MOUNTED TOWER JIB. BUT THE MAX. RATED LOAD IS 12.0ton.
- THE RATED LOAD ARE LIMITED ACCORDING TO THE WIRE ROPE PART LINE AS SHOWN BELOW:  
1 PART OF LINE ... UP TO 12.0 ton  
2 PART OF LINE ... UP TO 24.0ton  
3 PART OF LINE ... UP TO 35.0ton
- THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

### Tower Boom Length : 30.4m

unit : ton

Boom length (m)		30.4											
Jib length (m)		23.0				26.0				29.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 35.0											
	8.0	35.0				8.1m 34.0				8.6m 30.0			
	9.0	32.5				31.0				30.0			
	10.0	30.2				28.0				30.0			
	12.0	25.7				25.0				26.0			
	14.0	23.0				22.8				23.0			
	16.0	20.9	16.8m 20.5			20.8	17.6m 20.0			20.5			
	18.0	18.6	19.5			18.9	19.5			18.5	18.7m 17.9		
	20.0	16.9	17.8			17.3	17.8			16.8	17.5		
	22.0	15.3	16.3			15.6	16.2			15.2	16.2		
	24.0	12.8	14.9	25.2m 14.1		14.1	14.9			14.0	15.0		
	26.0	25.3m 10.7	13.8	13.6		12.1	13.8	26.7m 12.5		12.7	13.9		
	28.0		12.8	12.5		9.5	12.8	12.1		11.5	12.8	28.2m 12.0	
	30.0		11.8	11.5		28.2m 9.2	12.0	11.4		9.4	12.0	11.2	
	32.0		30.5m 11.7	10.6	33.0m 9.9	28.8m 8.0	11.3	10.6		31.1m 8.1	11.3	10.4	
	34.0			9.9	9.6		33.4m 10.5	9.9	35.0m 8.9	31.7m 7.0	10.6	9.7	
	36.0			35.5m 9.5	9.0		34.1m 10.0	9.4	8.6		9.8	9.1	36.9m 8.1
	38.0				8.4			8.6	8.0		36.3m 9.6	8.5	7.8
	40.0				7.9			38.4m 8.5	7.5		36.9m 9.0	8.0	7.3
	42.0				40.2m 7.9			39.1m 8.4	7.1			41.3m 7.6	6.9
44.0								43.1m 6.9			42.0m 7.4	6.5	
46.0								43.7m 6.7				46.0m 6.1	
48.0												46.6m 6.0	

# LUFFING TOWER

## Rated Lifting Loads

## 61.0t Counterweight

### Tower Boom Length : 33.4m

unit: ton

Boom length (m)		33.4															
Jib length (m)		23.0				26.0				29.0				32.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 35.0															
	8.0	35.0				8.1m 34.0				8.6m 30.0							
	9.0	32.5				31.0				30.0				9.1m 30.0			
	10.0	30.2				28.0				30.0				29.1			
	12.0	25.7				25.0				26.0				26.0			
	14.0	23.0				22.8				23.0				23.0			
	16.0	20.9	17.1m 20.5			20.8				20.5				20.5			
	18.0	18.6	19.5			18.9	18.2m 19.5			18.5	19.2m 17.9			18.5			
	20.0	16.9	17.9			17.3	17.8			16.8	17.5			16.8	20.2m 17.5		
	22.0	15.3	16.2			15.6	16.2			15.2	16.2			15.2	16.0		
	24.0	12.8	14.9			14.1	14.9			14.0	15.0			14.0	15.0		
	26.0	25.3m 10.7	13.6	26.2m 13.5		12.1	13.8	27.7m 12.0		12.7	13.9			12.7	13.9		
	28.0		12.8	12.5		9.5	12.8	11.9		11.5	12.8	29.2m 11.6		11.5	12.8		
	30.0		11.8	11.5		28.2m 9.2	12.0	11.3		9.5	12.0	11.2		10.5	12.0	30.7m 11.2	
	32.0		31.0m 11.4	10.6		28.8m 8.1	11.3	10.5		31.1m 8.1	11.3	10.4		9.5	11.3	10.6	
	34.0			9.9	34.5m 9.0		33.9m 10.5	9.9		31.7m 7.0	10.6	9.7		7.2	10.6	9.8	
	36.0			9.3	8.6		34.6m 10.0	9.4	36.5m 8.2		9.8	9.1		34.6m 6.1	9.7	9.1	
	38.0			36.6m 9.2	8.0			8.6	7.8		36.8m 9.4	8.5	38.4m 7.4		9.1	8.5	
	40.0				7.5		39.5m 8.3	7.3		37.5m 9.0	8.0	7.0		39.7m 8.5	8.0	40.3m 6.8	
	42.0				41.7m 7.0		40.1m 8.1	6.9			7.5	6.6		40.4m 8.0	7.5	6.5	
44.0							6.5			42.4m 7.4	6.2			7.1	6.1		
46.0								44.6m 6.3		43.0m 7.3	5.9			45.3m 6.8	5.8		
48.0								45.2m 6.2				47.5m 5.7		45.9m 6.7	5.4		
50.0												49.1m 5.6			5.1		
52.0															50.4m 5.1		
54.0																51.0m 5.0	

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

### Tower Boom Length : 36.4m

unit: ton

Boom length (m)		36.4																			
Jib length (m)		23.0				26.0				29.0				32.0				35.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 35.0																			
	8.0	35.0				8.1m 34.0				8.6m 30.0											
	9.0	32.5				31.0				30.0				9.1m 30.0						9.7m 28.0	
	10.0	30.2				28.0				30.0				29.1						27.7	
	12.0	25.7				25.0				26.0				26.0						25.0	
	14.0	23.0				22.8				23.0				23.0						22.5	
	16.0	20.9	17.6m 20.0			20.8				20.5				20.5						20.2	
	18.0	18.6	19.5			18.9	18.7m 19.0			18.5	19.7m 17.8			18.5					18.2		
	20.0	16.9	17.9			17.2	17.8			16.8	17.5			16.8	20.7m 17.0				16.4	21.8m 15.2	
	22.0	15.3	16.2			15.5	16.2			15.2	16.2			15.2	16.0				15.2	15.2	
	24.0	12.8	14.9			14.1	14.9			14.0	15.0			14.0	15.0				14.1	14.2	
	26.0	25.3m 10.7	13.6	27.2m 12.5		12.2	13.8			12.7	13.9			12.7	13.9				13.0	13.5	
	28.0		12.8	12.4		9.5	12.8	28.7m 11.5		11.5	12.8			11.5	12.8				12.1	12.8	
	30.0		11.8	11.3		28.2m 9.2	12.0	11.2		9.5	12.0	30.2m 11.0		10.5	12.0	31.7m 10.5			11.3	11.8	
	32.0		31.6m 11.2	10.5		28.8m 8.1	11.3	10.5		31.1m 8.1	11.3	10.4		9.5	11.3	10.3			10.3	10.8	33.2m 9.5
	34.0			9.9			10.5	9.9		31.7m 7.1	10.6	9.7		34.0m 7.2	10.5	9.6			9.3	10.1	9.2
	36.0			9.3	36.0m 8.1		34.5m 10.3	9.3			9.8	9.1		34.6m 6.2	9.7	8.9			7.9	9.5	8.6
	38.0			37.6m 8.7	7.5		35.1m 10.0	8.6	38.0m 7.4		37.3m 9.2	8.5	39.9m 6.8		9.1	8.3			36.9m 6.4	9.0	8.0
	40.0				7.0			7.9	6.9		39.0m 8.5	8.0	6.8		8.5	7.8	41.8m 6.3	37.5m 5.4	8.6	7.5	
	42.0				6.6			40.5m 7.6	6.5		40.2m 8.5	7.5	6.3		40.2m 8.5	7.3	6.3			8.0	7.0
44.0				43.2m 6.4			41.1m 7.4	6.2		43.4m 7.2	6.0		43.0m 7.2	6.0	40.9m 7.8	6.9	6.0		43.1m 7.4	6.6	5.7
46.0								5.8		44.0m 7.0	5.7			6.5	5.6			43.8m 6.8	6.2	5.4	
48.0								46.1m 5.8			5.4			46.3m 6.4	5.3				5.9	5.1	
50.0								46.7m 5.7					49.0m 5.3	46.9m 6.3	5.0				49.2m 5.7	4.8	
52.0													49.6m 5.2					51.9m 4.7	49.8m 5.6	4.5	
54.0																					4.3
56.0																					54.8m 4.2
58.0																					55.4m 4.1

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

### Rated Lifting Loads

### 61.0t Counterweight

Tower Boom Length : 39.4m

unit: ton

Boom length (m)		39.4															
Jib length (m)		23.0				26.0				29.0				32.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 24.0															
	8.0	24.0				8.1m 24.0				8.6m 24.0							
	9.0	24.0				24.0				24.0				9.1m 24.0			
	10.0	24.0				24.0				24.0				24.0			
	12.0	24.0				24.0				24.0				24.0			
	14.0	23.0				22.8				23.0				23.0			
	16.0	20.9				20.9				20.5				20.5			
	18.0	18.6	18.2m 19.4			18.6	19.2m 18.5			18.5				18.5			
	20.0	16.9	17.9			16.9	17.7			16.8	20.2m 17.4			16.8	21.2m 17.0		
	22.0	15.3	16.3			15.3	16.2			15.2	16.2			15.3	16.1		
	24.0	12.8	15.0			14.0	14.9			14.0	15.0			14.1	15.0		
	26.0	25.3m 10.7	13.6			12.2	13.8			12.7	13.9			13.0	13.9		
	28.0		12.4	28.3m 12.2		9.5	12.8	29.8m 11.0		11.4	12.8			11.6	12.8		
	30.0		11.8	11.4		28.2m 9.2	12.0	11.0		9.8	12.0	31.3m 10.5		10.4	12.0		
	32.0		11.4	10.6		28.8m 8.1	11.3	10.5		31.1m 8.6	11.3	10.3		9.4	11.3	32.8m 9.6	
	34.0		32.1m 11.4	9.9		10.6	9.9			31.7m 7.5	10.6	9.6		34.0m 7.5	10.5	9.5	
	36.0			9.3	37.5m 7.3		35.0m 10.1	9.3			9.8	9.0		34.6m 6.5	9.7	8.9	
	38.0			8.6	7.2		35.6m 9.8	8.6	39.5m 6.6		37.9m 9.3	8.4			9.1	8.3	
	40.0			38.6m 8.4	6.8			7.9	6.5		38.5m 9.0	7.9	41.4m 6.0		8.5	7.7	
	42.0				6.4			41.5m 7.3	6.2			7.4	5.9		40.8m 8.1	7.3	43.3m 5.5
	44.0				6.0			42.2m 7.0	5.9			7.0	5.6		41.4m 7.7	6.9	5.4
	46.0				44.7m 5.9				5.5			44.4m 6.9	5.3			6.5	5.2
	48.0							47.6m 5.2				45.1m 6.7	5.0			47.3m 6.1	5.0
	50.0							48.2m 5.1					4.8			48.0m 6.0	4.7
	52.0																4.4
	54.0																53.4m 4.2
56.0																54.0m 4.1	

Boom length (m)		39.4							
Jib length (m)		35.0				38.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	9.0	9.7m 24.0							
	10.0	24.0				10.2m 24.0			
	12.0	22.5				23.6			
	14.0	20.5				21.6			
	16.0	19.0				18.5			
	18.0	17.5				16.2			
	20.0	16.3				15.0			
	22.0	15.2	22.3m 15.0			14.0	23.3m 13.4		
	24.0	14.1	14.2			13.1	13.2		
	26.0	13.0	13.5			12.3	12.7		
	28.0	12.1	12.8			11.5	12.1		
	30.0	11.3	11.8			10.8	11.6		
	32.0	10.3	10.8			9.9	10.9		
	34.0	9.3	10.1	34.3m 9.0		9.0	10.2	35.8m 8.2	
	36.0	7.9	9.5	8.5		8.3	9.5	8.1	
	38.0	36.9m 6.7	9.0	7.9		7.4	9.0	7.5	
	40.0	37.5m 5.7	8.6	7.4		39.8m 5.9	8.5	7.0	
	42.0		8.0	6.9		40.4m 4.9	8.0	6.6	
	44.0		43.7m 7.2	6.5	45.2m 5.2		7.5	6.2	
	46.0		44.3m 6.7	6.1	5.1		6.9	5.8	47.2m 4.8
	48.0			5.8	4.8		46.6m 6.5	5.5	4.7
	50.0			5.5	4.5		47.2m 6.0	5.2	4.4
	52.0			50.2m 5.5	4.3			4.9	4.1
	54.0			50.9m 5.4	4.1			53.1m 4.8	3.9
	56.0				3.9			53.8m 4.7	3.7
	58.0				56.3m 3.8				3.5
60.0				56.9m 3.7				59.2m 3.4	
62.0								59.8m 3.3	

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

# LUFFING TOWER

Rated Lifting Loads

61.0t Counterweight

Tower Boom Length : 42.4m

unit : ton

Boom length (m)		42.4												
Jib length (m)		23.0				26.0				29.0				
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
Working radius (m)	7.0	7.6m 24.0												
	8.0	24.0				8.1m 24.0				8.6m 24.0				
	9.0	24.0				24.0				24.0				
	10.0	24.0				24.0								
	12.0	24.0				24.0				24.0				
	14.0	23.0				22.8				23.0				
	16.0	20.9				20.9				20.5				
	18.0	18.6	18.7m 19.1			18.6	19.7m 18.0				18.5			
	20.0	16.9	17.9			16.9	17.6			16.9	20.7m 17.0			
	22.0	15.3	16.2			15.3	16.2			15.3	16.2			
	24.0	12.8	14.9			14.1	14.9			14.1	15.0			
	26.0	25.3m 10.7	13.6			12.1	13.8			12.8	13.9			
	28.0		12.4	29.3m 11.4		9.5	12.8			11.4	12.8			
	30.0		11.8	11.1		28.2m 9.2	12.0	30.8m 11.0		9.5	12.0			
	32.0		11.3	10.2		28.8m 8.1	11.3	10.5		31.1m 8.3	11.3	32.3m 9.8		
	34.0		32.6m 10.8	9.6			10.5	9.9		31.7m 7.5	10.6	9.2		
	36.0			9.0			35.5m 9.9	9.2			9.8	8.5		
	38.0			8.4	39.0m 6.5		36.1m 9.5	8.6			9.0	8.0		
	40.0			39.6m 7.9	6.3			7.9	41.0m 6.0		38.4m 8.7	7.5		
	42.0				6.0			6.9	5.9		39.0m 8.1	7.0	42.9m 5.6	
44.0				5.7			42.5m 6.6	5.6			6.6	5.4		
46.0				5.3			43.2m 6.5	5.3			45.4m 6.3	5.1		
48.0				46.2m 5.3				5.0			46.1m 6.2	4.8		
50.0								49.1m 4.8				4.5		
52.0								49.7m 4.7				52.0m 4.2		
54.0												52.6m 4.1		

Boom length (m)		42.4															
Jib length (m)		32.0				35.0				38.0				41.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	9.0	9.1m 24.0				9.7m 24.0											
	10.0	24.0				24.0				10.2m 24.0				10.7m 21.5			
	12.0	23.7				22.5				22.4				19.9			
	14.0	22.4				20.5				20.3				17.7			
	16.0	20.5				19.0				18.0				16.0			
	18.0	18.5				17.5				16.2				14.6			
	20.0	16.8	21.8m 16.5			16.3				15.0				13.2			
	22.0	15.3	16.0			15.2	22.8m 14.8			14.0	23.8m 13.3			12.0			
	24.0	14.1	15.0			14.1	14.2			13.1	13.2			11.1	24.8m 11.6		
	26.0	13.0	13.9			13.0	13.5			12.3	12.7			10.4	11.4		
	28.0	11.7	12.8			12.1	12.8			11.5	12.1			9.8	10.9		
	30.0	10.6	12.0			11.3	11.8			10.8	11.6			9.3	10.5		
	32.0	9.5	11.3	33.8m 9.2		10.3	10.8			9.9	10.9			8.8	10.1		
	34.0	34.0m 7.4	10.5	9.1		9.3	10.1	35.3m 8.6		9.0	10.2			8.3	9.7		
	36.0	34.6m 6.6	9.7	8.4		8.0	9.5	8.4		8.3	9.5	36.8m 7.7		7.8	9.3		
	38.0		9.1	7.9		36.9m 6.8	9.0	7.8		7.4	9.0	7.4		7.2	8.9	38.3m 7.1	
	40.0		8.5	7.4		37.5m 5.7	8.6	7.3		39.8m 5.9	8.5	6.9		6.4	8.4	6.7	
	42.0		41.3m 7.9	6.9			8.0	6.9		40.4m 4.9	8.0	6.5		5.4	7.8	6.3	
	44.0		41.9m 7.5	6.5	44.8m 5.0		7.3	6.5			7.5	6.1		42.6m 4.9	7.3	5.9	
	46.0			6.1	4.9		44.2m 7.1	6.1	46.7m 4.8		6.9	5.7		43.3m 4.3	6.8	5.5	
48.0			5.8	4.7		44.8m 6.7	5.7	4.6		47.1m 6.5	5.4	48.7m 4.3		6.3	5.2		
50.0			48.3m 5.7	4.5			5.4	4.3		47.7m 6.0	5.1	4.1		50.0m 5.9	4.9	50.6m 3.7	
52.0			49.0m 5.5	4.2			51.2m 5.2	4.1			4.8	3.8		50.6m 5.4	4.6	3.6	
54.0				3.9			51.9m 5.1	3.9			4.6	3.6			4.4	3.4	
56.0				54.9m 3.8				3.7			54.1m 4.6	3.4			4.2	3.2	
58.0				55.5m 3.7				57.8m 3.5			54.8m 4.5	3.2			57.0m 4.1	3.0	
60.0								58.4m 3.4				3.0			57.7m 4.0	2.8	
62.0												60.7m 2.9				2.6	
64.0												61.3m 2.9				63.6m 2.5	
66.0																64.2m 2.5	

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

Rated Lifting Loads

61.0t Counterweight

Tower Boom Length : 45.4m

unit: ton

Boom length (m)		45.4															
Jib length (m)		23.0				26.0				29.0				32.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 24.0															
	8.0	24.0				8.1m 24.0				8.6m 24.0							
	9.0	24.0				24.0				24.0				9.1m 24.0			
	10.0	24.0				24.0				24.0				24.0			
	12.0	24.0				24.0				24.0				23.4			
	14.0	23.0				22.8				22.4				21.4			
	16.0	20.9				20.9				20.5				19.7			
	18.0	18.6	19.2m 18.9			18.6				18.5				18.2			
	20.0	16.9	17.9			16.9	20.2m 17.6			16.9	21.3m 16.7			16.7			
	22.0	15.3	16.3			15.3	16.2			15.3	16.2			15.2	22.3m 15.3		
	24.0	12.8	15.0			14.1	14.9			14.1	15.0			14.1	15.0		
	26.0	25.3m 10.6	13.6			12.0	13.8			12.8	13.9			13.0	13.9		
	28.0		12.4			9.5	12.8			11.4	12.8			11.7	12.8		
	30.0		11.8	30.3m 10.5		28.2m 9.2	12.0	31.8m 9.8		9.5	12.0			10.7	12.0		
	32.0		11.3	9.9		28.8m 8.5	11.3	9.7		31.1m 8.4	11.3	33.3m 9.1		9.5	11.3		
	34.0		33.1m 11.0	9.2			10.5	9.0		31.7m 7.6	10.6	8.9		34.0m 7.5	10.5	34.8m 8.4	
	36.0			8.6			36.0m 9.9	8.5			9.8	8.3		34.6m 6.6	9.7	8.0	
	38.0			8.1			36.7m 9.5	8.0			9.0	7.7			9.1	7.5	
	40.0			7.5	40.5m 6.0			7.4			38.9m 8.7	7.2			8.5	7.0	
	42.0			40.7m 7.3	5.8			6.9	42.5m 5.4		39.6m 8.1	6.7			41.8m 7.9	6.6	
	44.0				5.4				43.6m 6.5	5.2			6.3	44.4m 4.9	42.5m 7.2	6.2	
	46.0				5.1				44.2m 6.3	4.9			6.0	4.7		5.8	46.3m 4.5
	48.0				47.7m 4.8					4.6			46.5m 5.9	4.5		5.5	4.3
	50.0									4.4			47.1m 5.8	4.2		49.4m 5.3	4.1
	52.0									50.6m 4.3				3.9		50.0m 5.2	3.9
	54.0									51.2m 4.2				53.5m 3.7			3.7
	56.0													54.1m 3.6			3.5
	58.0																56.4m 3.4
60.0																57.0m 3.3	

Boom length (m)		45.4															
Jib length (m)		35.0				38.0				41.0				44.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	9.0	9.7m 24.0															
	10.0	24.0				10.2m 23.2				10.7m 21.0				11.2m 20.8			
	12.0	22.5				21.0				19.7				19.6			
	14.0	20.5				18.9				17.5				17.4			
	16.0	19.0				17.4				15.8				15.0			
	18.0	17.5				16.2				14.5				13.0			
	20.0	16.3				15.0				13.2				11.6			
	22.0	15.2	23.3m 14.5			14.0				12.0				10.5			
	24.0	14.1	14.2			13.1	24.3m 13.1			11.1	25.4m 11.5			9.5			
	26.0	13.1	13.5			12.3	12.7			10.4	11.4			8.9	26.4m 10.2		
	28.0	12.2	12.8			11.5	12.1			9.8	10.9			8.4	9.8		
	30.0	11.3	11.8			10.8	11.6			9.3	10.5			8.0	9.4		
	32.0	10.3	10.8			9.9	10.9			8.8	10.1			7.7	9.0		
	34.0	9.3	10.1			9.0	10.2			8.3	9.7			7.3	8.7		
	36.0	8.0	9.5	36.3m 8.0		8.3	9.5	37.8m 7.3		7.8	9.3			6.9	8.4		
	38.0	36.9m 8.8	9.0	7.5		7.4	9.0	7.3		7.2	8.9	39.3m 6.9		6.4	8.0		
	40.0	37.5m 5.8	8.6	7.0		39.8m 5.9	8.5	6.8		6.4	8.4	6.7		6.0	7.7	40.8m 5.4	
	42.0		8.0	6.6		40.4m 5.0	8.0	6.4		5.4	7.8	6.3		5.6	7.3	5.4	
	44.0		7.4	6.2			7.5	6.0		42.6m 4.9	7.3	5.9		5.1	6.8	5.4	
	46.0		44.7m 7.3	5.8			7.0	5.6		43.3m 4.3	6.8	5.5		45.5m 4.5	6.3	5.2	
	48.0		45.3m 6.8	5.5	48.2m 4.2		47.6m 6.3	5.3			6.3	5.1		46.2m 3.7	5.9	4.8	
	50.0			5.2	4.0		48.2m 5.7	5.0	50.2m 3.7		5.9	4.8			5.5	4.4	
	52.0			4.9	3.8			4.7	3.5		50.5m 5.7	4.5	52.1m 3.2		5.1	4.1	
	54.0			52.3m 4.9	3.6			4.4	3.3		51.1m 5.2	4.2	3.0		53.4m 4.8	3.8	54.0m 2.8
	56.0			52.9m 4.8	3.4			55.2m 4.2	3.1			3.9	2.8		54.0m 4.4	3.5	2.6
	58.0				3.2			55.8m 4.1	2.9			3.7	2.6			3.3	2.5
	60.0				59.3m 3.0				2.7			58.1m 3.7	2.4			3.1	2.3
	62.0				59.9m 2.9				2.5			58.7m 3.6	2.2			61.0m 3.0	2.1
64.0								62.2m 2.5					2.1		61.6m 3.0	1.9	
66.0								62.8m 2.4					65.1m 2.0			1.8	
68.0													65.7m 2.0			68.0m 1.6	
70.0																68.6m 1.6	

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

# LUFFING TOWER

Rated Lifting Loads

61.0t Counterweight

Tower Boom Length : 48.4m

unit: ton

Boom length (m)		48.4															
Jib length (m)		23.0				26.0				29.0				32.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
Working radius (m)	7.0	7.6m 24.0															
	8.0	24.0				8.1m 24.0				8.6m 24.0							
	9.0	24.0				24.0				24.0						9.1m 24.0	
	10.0	24.0				24.0				24.0						24.0	
	12.0	24.0				24.0				23.5						22.5	
	14.0	23.0				22.4				21.4						20.5	
	16.0	20.9				20.4				19.7						18.9	
	18.0	18.6	19.7m 18.3			18.4				18.1						17.5	
	20.0	16.9	17.9			16.9	20.8m 17.2			16.7	21.8m 19.3					16.2	
	22.0	15.3	16.2			15.3	16.2			15.4	16.2					15.0	22.8m 14.9
	24.0	12.8	14.8			13.9	14.8			14.1	14.8					13.9	14.5
	26.0	25.3m 10.9	13.6			12.0	13.6			12.9	13.6					12.9	13.6
	28.0		12.4			9.5	12.5			11.6	12.5					11.8	12.5
	30.0		11.7	31.3m 9.8		28.2m 9.2	11.7			9.7	11.7					10.7	11.6
	32.0		10.9	9.5		28.8m 8.5	10.9	32.8m 9.4		31.1m 8.5	10.9					9.5	10.8
	34.0		33.6m 10.3	8.8			10.2	9.0		31.7m 7.6	10.2	34.3m 8.4			34.0m 7.5	10.1	35.8m 7.8
	36.0			8.2			9.6	8.4			9.6	7.9			34.6m 6.6	9.5	7.7
	38.0			7.7			36.5m 9.5	7.9			9.1	7.4				9.0	7.2
	40.0			7.2			37.2m 9.2	7.4			39.4m 8.7	6.9				8.5	6.7
	42.0			41.7m 6.8	42.0m 5.4			6.9			40.1m 8.2	6.5				7.9	6.3
44.0				5.1			6.3	44.0m 4.7			6.1	45.9m 4.2			42.3m 7.7	5.9	
46.0				4.8			44.6m 6.1	4.5			5.7	4.2			43.0m 7.2	5.6	47.8m 4.0
48.0				4.5			45.2m 5.9	4.3			47.5m 5.5	4.1				5.3	4.0
50.0				49.2m 4.4				4.1			48.1m 5.4	3.9				5.0	3.8
52.0								3.8				3.7				50.4m 4.9	3.6
54.0									52.1m 3.8			3.5				51.0m 4.8	3.4
56.0									52.7m 3.6				55.0m 3.4				3.1
58.0													55.6m 3.3				57.9m 2.9
60.0																	58.5m 2.8

Boom length (m)		48.4																			
Jib length (m)		35.0				38.0				41.0			44.0				47.0				
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	
Working radius (m)	9.0	9.7m 24.0																			
	10.0	23.9				10.2m 22.7				10.7m 20.5				11.2m 19.3						11.7m 18.0	
	12.0	21.5				20.6				19.3				18.8						17.3	
	14.0	19.7				18.8				17.4				16.5						15.0	
	16.0	18.2				17.4				15.8				14.5						13.3	
	18.0	16.8				16.2				14.5				12.8						11.5	
	20.0	15.6				15.0				13.2				11.5						10.0	
	22.0	14.6	23.8m 13.6			14.0				12.0				10.5						9.0	
	24.0	13.6	13.6			13.1	24.9m 12.5			11.1	25.9m 11.4			9.5						8.1	
	26.0	12.6	13.0			12.2	12.2			10.4	11.4			8.9	26.9m 9.9				7.6	27.9m 9.0	
	28.0	11.7	12.4			11.4	11.7			9.8	10.9			8.4	9.8				7.2	9.0	
	30.0	10.8	11.6			10.7	11.2			9.3	10.5			8.0	9.4				6.9	8.6	
	32.0	9.9	10.7			9.9	10.6			8.8	10.1			7.7	9.0				6.7	8.3	
	34.0	9.0	10.1			9.0	10.1			8.3	9.7			7.3	8.7				6.4	8.0	
	36.0	7.8	9.5	37.3m 7.4		8.3	9.5			7.8	9.3			6.9	8.4				6.1	7.7	
	38.0	36.9m 6.8	9.0	7.2		7.4	9.0	38.8m 7.0		7.2	8.9			6.4	8.0				5.8	7.4	
	40.0	37.5m 5.8	8.5	6.7		39.8m 6.0	8.4	6.7		6.4	8.4	40.3m 6.4		6.0	7.7	41.8m 5.3			5.6	7.1	
	42.0		8.0	6.3		40.4m 5.0	7.9	6.3		5.4	7.8	6.3		5.6	7.3	5.3			5.3	6.9	43.3m 4.8
	44.0		7.4	5.9			7.4	5.9		42.6m 4.9	7.3	5.9		5.1	6.8	5.3			4.8	6.5	4.8
	46.0		45.2m 6.2	5.5			6.9	5.5		43.3m 4.3	6.8	5.5		45.5m 4.3	6.3	4.9			4.4	6.0	4.7
48.0		45.9m 6.2	5.2	49.7m 3.5		6.4	5.1			6.3	5.1		46.2m 3.7	5.9	4.5			3.8	5.6	4.4	
50.0			4.9	3.5		48.1m 6.3	4.8	51.7m 3.1		5.9	4.7			5.5	4.2			48.4m 3.6	5.1	4.0	
52.0			4.6	3.3		49.8m 5.8	4.5	3.1		51.0m 5.6	4.4	53.6m 2.6		5.1	3.9			49.1m 3.3	4.7	3.7	
54.0			53.3m 4.4	3.1			4.2	2.9		51.7m 5.1	4.1	2.6		53.9m 4.8	3.6			55.5m 2.2	4.2	3.4	
56.0			53.9m 4.3	3.0			3.9	2.8			3.8	2.6		54.6m 4.4	3.4	2.2		3.7	3.2		
58.0				2.8			56.2m 3.9	2.6			3.6	2.4			3.2	2.1			56.8m 3.6	2.9	
60.0				2.6			56.8m 3.8	2.4			59.1m 3.5	2.2			3.0	1.9			57.5m 3.5	2.7	
62.0								2.2			59.7m 3.4	2.0			62.0m 2.9	1.7				2.5	
64.0												1.9			62.6m 2.9	1.6				2.3	
66.0												1.7				1.4				64.9m 2.3	
68.0												66.6m 1.6				1.4				65.5m 2.3	
70.0													67.2m 1.6								
72.0																				70.1m 1.3	

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

**Rated Lifting Loads**

**61.0t Counterweight**

Tower Boom Length : 51.4m

unit: ton

Boom length (m)		51.4																
Jib length (m)		23.0				26.0				29.0				32.0				
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
Working radius (m)	7.0	7.6m 24.0																
	8.0	24.0				8.1m 24.0				8.6m 24.0								
	9.0	24.0				24.0				24.0						9.1m 24.0		
	10.0	24.0				24.0				24.0						23.9		
	12.0	24.0				23.6				22.5						21.5		
	14.0	22.8				21.5				20.6						19.7		
	16.0	20.8				19.6				18.9						18.2		
	18.0	18.6				18.0				17.4						16.8		
	20.0	16.9	20.3m 16.6			16.5	21.3m 15.8				16.0					15.6		
	22.0	15.3	15.3			15.1	15.3				14.8	22.3m 15.0			14.4	23.3m 14.1		
	24.0	12.8	13.9			13.6	13.9				13.6	13.9			13.4	13.8		
	26.0	25.3m 10.8	12.8			12.0	12.8				12.4	12.8			12.4	12.8		
	28.0		11.8			9.5	11.8				11.2	11.8			11.4	11.8		
	30.0		11.0			28.2m 9.2	11.0				9.5	11.0			10.4	11.0		
	32.0		10.2	32.4m 8.8		28.8m 8.7	10.2	33.9m 8.4			31.1m 8.3	10.2			9.2	10.2		
	34.0		9.6	8.3			9.6	8.4			31.7m 7.6	9.6	35.4m 7.8		34.0m 7.3	9.6		
	36.0		34.2m 9.6	7.8			9.1	7.9				9.1	7.6		34.6m 6.6	9.1	36.9m	
	38.0			7.3			37.1m 8.8	7.4				8.6	7.1			8.6	6.9	
	40.0			6.8			37.7m 8.6	6.8				40.0m 8.1	6.6			8.1	6.5	
	42.0			6.3	43.5m 4.1			6.4				40.6m 7.8	6.2			7.7	6.1	
	44.0			42.7m 6.1	4.1			5.9	45.5m 3.8				5.8			42.9m 7.5	5.7	
	46.0				4.1				45.6m 5.5	3.8			5.4	47.4m 3.4		43.5m 7.0	5.3	
	48.0				4.1				46.3m 5.4	3.7			5.1	3.4			5.0	49.3m 2.9
	50.0				4.0					3.6			48.5m 5.0	3.4			4.6	2.9
52.0					50.7m 3.9				3.4			49.2m 4.9	3.3			51.4m 4.4	2.9	
54.0										53.6m 3.2				3.1		52.1m 4.3	2.9	
56.0										54.2m 3.0					2.8		2.7	
58.0															56.5m 2.7		2.5	
60.0															57.1m 2.6		59.4m 2.4	
62.0																	60.0m 2.3	

Boom length (m)		51.4																		
Jib length (m)		35.0				38.0				41.0				44.0			47.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	90°	80°	70°	
Working radius (m)	9.0	9.7m 23.3																		
	10.0	22.9				10.2m 21.7				10.7m 20.0				11.2m 18.0					11.7m 15.0	
	12.0	20.6				19.7				19.0				17.0					14.4	
	14.0	18.9				18.1				17.3				15.0					12.7	
	16.0	17.5				16.7				15.8				13.4					11.0	
	18.0	16.2				15.5				14.5				12.2					9.9	
	20.0	15.0				14.4				13.2				11.1					9.0	
	22.0	14.0				13.4				12.0				10.3					8.4	
	24.0	13.0	24.4m 12.9			12.6	25.4m 11.8				11.1			9.5					7.9	
	26.0	12.1	12.4			11.7	11.7				10.4	26.4m 10.8			8.9	27.4m 9.9			7.4	
	28.0	11.3	11.8			11.0	11.1				9.8	10.4			8.4	9.8			7.0	28.5m 8.3
	30.0	10.4	11.0			10.3	10.7				9.3	10.0			8.0	9.4			6.7	8.0
	32.0	9.6	10.2			9.5	10.2				8.8	9.6			7.7	9.0			6.5	7.7
	34.0	8.6	9.6			8.8	9.6				8.3	9.3			7.3	8.7			6.3	7.4
	36.0	7.2	9.1			8.0	9.1				7.8	8.9			6.9	8.4			6.0	7.2
	38.0	36.9m 6.3	8.6	38.4m 6.6		7.1	8.6	39.9m 6.0			7.2	8.5			6.4	8.0			5.7	6.9
	40.0	37.5m 5.8	8.1	6.4		39.8m 6.0	8.1	6.0			6.4	8.1	41.4m 5.5		6.0	7.7			5.5	6.6
	42.0		7.7	6.0		40.4m 5.0	7.7	6.0			5.4	7.5	5.5		5.6	7.3	42.9m 5.0		5.2	6.4
	44.0		7.3	5.6			7.2	5.5			42.6m 4.9	7.0	5.4		5.1	6.8	4.9	4.8	6.1	44.4m 4.2
	46.0		45.9m 6.7	5.3			6.7	5.1			43.3m 4.3	6.5	5.0		45.5m 4.2	6.3	4.7	4.4	5.6	4.2
	48.0		46.4m 6.2	4.9			6.2	4.8				6.1	4.7		46.2m 3.7	5.9	4.4	3.9	5.2	4.0
	50.0			4.6	51.2m 2.5		48.6m 5.9	4.4				5.7	4.3			5.5	4.1	48.4m 3.7	4.8	3.7
	52.0			4.3	2.5		49.3m 5.5	4.1	53.2m 2.0			51.5m 5.3	4.0			5.1	3.8	49.1m 3.4	4.5	3.4
	54.0			4.0	2.5			3.9	2.0			52.2m 4.9	3.7	55.1m 1.5		4.8	3.6		4.2	3.2
56.0			54.3m 3.9	2.5			3.7	2.0				3.5	1.4	54.4m 4.7	3.3		3.8	2.9		
58.0			55.0m 3.8	2.4			57.2m 3.6	2.0				3.3	1.4	55.1m 4.4	3.1		57.3m 3.5	2.7		
60.0				2.2			57.9m 3.5	1.9				3.1	1.4			3.0	58.0m 3.3	2.5		
62.0				2.0				1.8				60.1m 3.0	1.4			2.9		2.3		
64.0				62.3m 2.0				1.7				60.8m 3.0	1.4			63.0m 2.9		2.1		
66.0				62.9m 2.0				65.2m 1.6					1.4			63.7m 2.8		65.9m 1.9		
68.0								65.8m 1.6					1.3					66.6m 1.8		
70.0													68.1m 1.3							
72.0																				

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

# LUFFING TOWER

Rated Lifting Loads

61.0t Counterweight

Tower Boom Length : 54.4m

unit : ton

Boom length (m)		54.4															
Jib length (m)		23.0				26.0				29.0				32.0			
Tower boom angle		90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	
Working radius (m)	7.0	7.6m 24.0															
	8.0	24.0				8.1m 24.0				8.6m 24.0							
	9.0	24.0				24.0				24.0					9.1m 22.8		
	10.0	24.0				24.0				23.8					21.7		
	12.0	23.0				22.6				21.5					19.6		
	14.0	20.3				19.0				18.9					17.9		
	16.0	18.2				17.4				16.7					16.5		
	18.0	16.5				15.9				15.4					15.3		
	20.0	14.9	20.8m 14.5			14.6	21.8m 14.3				14.2				14.2		
	22.0	13.4	13.6			13.3	14.1				13.1	22.8m 12.7			13.1	23.8m 12.5	
	24.0	11.4	12.0			12.1	12.8				12.1	12.1			12.2	12.5	
	26.0	25.3m 9.9	11.0			10.6	11.8				11.0	11.0			11.3	11.5	
	28.0		10.2			8.8	10.8				9.8	10.2			10.4	10.6	
	30.0		9.5			28.2m 8.5	10.1				8.9	9.5			9.3	9.8	
	32.0		8.9	33.4m 7.2			9.4				31.1m 7.6	8.9			8.0	9.2	
	34.0		8.3	7.2			8.8	34.9m 6.4			31.7m 6.9	8.3			34.0m 6.7	8.6	
	36.0		34.7m 8.1	7.0			8.3	6.4				7.8	36.4m 5.4		34.6m 6.3	8.1	37.9m 4.7
	38.0			6.7			37.6m 7.6	6.4				7.4	5.4			7.7	4.7
	40.0			6.2				6.2				6.7	5.4			7.3	4.7
	42.0			5.6				5.8				40.5m 6.3	5.2			6.6	4.7
	44.0			43.8m 4.7	45.0m 1.7			5.3				41.1m 5.8	4.9			43.4m 5.8	4.6
	46.0				1.7			4.6	47.0m 1.4				4.5			44.0m 5.5	4.4
	48.0				1.7			46.7m 4.2	1.4				4.0	48.9m 1.3			4.1
	50.0				1.7				1.4				49.5m 3.5	1.3			3.7
52.0				1.6				1.4				50.2m 3.3	1.3			3.2	
54.0				52.2m 1.6				1.4					1.3			52.4m 3.0	
56.0								55.1m 1.3					1.3			53.1m 2.7	
58.0													58.0m 1.3				
60.0													58.6m 1.3				

Boom length (m)		54.4															
Jib length (m)		35.0			38.0			41.0			44.0			47.0			
Tower boom angle		90°	80°	70°	90°	80°	70°	90°	80°	70°	90°	80°	70°	90°	80°	70°	
Working radius (m)	9.0	9.7m 22.3															
	10.0	21.9			10.2m 20.7			10.7m 19.4			11.2m 18.9			11.7m 18.9			
	12.0	19.7			18.9			18.1			16.0			12.3			
	14.0	18.1			17.3			16.6			14.3			10.4			
	16.0	16.7			16.0			15.3			12.9			9.2			
	18.0	15.5			14.8			14.1			11.7			8.6			
	20.0	14.4			13.8			13.0			10.8			8.2			
	22.0	13.4			12.9			12.0			10.1			7.8			
	24.0	12.5	24.9m 11.8		11.8	25.9m 11.0		11.1			9.5			7.5			
	26.0	11.6	11.6		11.0	11.0		10.4	26.9m 9.9		8.9			7.2			
	28.0	10.8	10.8		10.3	10.5		9.7	9.7		8.4	28.0m 9.2		6.9	29.0m 7.8		
	30.0	10.0	10.1		9.7	9.8		9.1	9.3		8.0	9.0		6.6	7.6		
	32.0	9.0	9.4		9.0	9.3		8.6	8.9		7.7	8.6		6.4	7.3		
	34.0	7.9	8.8		8.1	8.8		8.1	8.5		7.3	8.3		6.2	7.0		
	36.0	6.6	8.3		7.3	8.3		7.4	8.1		6.9	8.0		5.9	6.8		
	38.0	36.9m 5.3	7.8	39.4m 4.2	6.1	7.8		6.7	7.7		6.4	7.7		5.6	6.5		
	40.0	37.5m 5.3	7.4	4.2	39.8m 5.1	7.4	40.9m 3.7	5.9	7.3		6.0	7.4		5.4	6.3		
	42.0		7.0	4.2	40.4m 4.8	7.0	3.7	5.0	6.8	42.4m 3.2	5.4	7.0	43.9m 2.8	5.1	6.0		
	44.0		6.3	4.2		6.4	3.7	42.6m 4.5	6.3	3.2	4.7	6.7	2.8	4.7	5.7	45.4m 2.3	
	46.0		5.3	4.1		5.8	3.7	43.3m 3.9	5.8	3.2	45.6m 3.9	6.2	2.8	4.2	5.3	2.3	
	48.0		46.3m 5.1	3.9		5.0	3.6		5.3	3.2	46.2m 3.6	5.8	2.8	3.5	4.9	2.3	
	50.0		46.9m 4.7	3.6		49.2m 4.5	3.5		4.7	3.1		5.3	2.8	48.4m 3.3	4.6	2.3	
	52.0			3.3		49.8m 4.3	3.3		3.9	3.0		4.9	2.8	49.1m 3.0	4.2	2.3	
	54.0			2.9			3.1		52.1m 3.9	2.8		4.4	2.7		3.9	2.3	
56.0			55.3m 2.6			2.8		52.7m 3.9	2.6		55.0m 3.4	2.5		3.4	2.2		
58.0			56.0m 2.4			2.3			2.4		55.6m 2.9	2.3		57.9m 2.9	2.1		
60.0						58.2m 2.2			2.1			2.1		58.5m 2.7	1.9		
62.0						58.9m 1.9			61.1m 1.9			1.9			1.8		
64.0									61.8m 1.8				64.0m 1.5		1.6		
66.0													64.7m 1.4		1.4		
68.0															66.9m 1.3		
70.0															67.6m 1.3		

THE WORKING RADIUS MARKED WITH AN ASTERISK ( \* ) IN THIS TABLE INDICATES THE MAXIMUM WORKING RADIUS WHEN THE WIRE ROPE PART LINE IS 1 PART OF LINE.

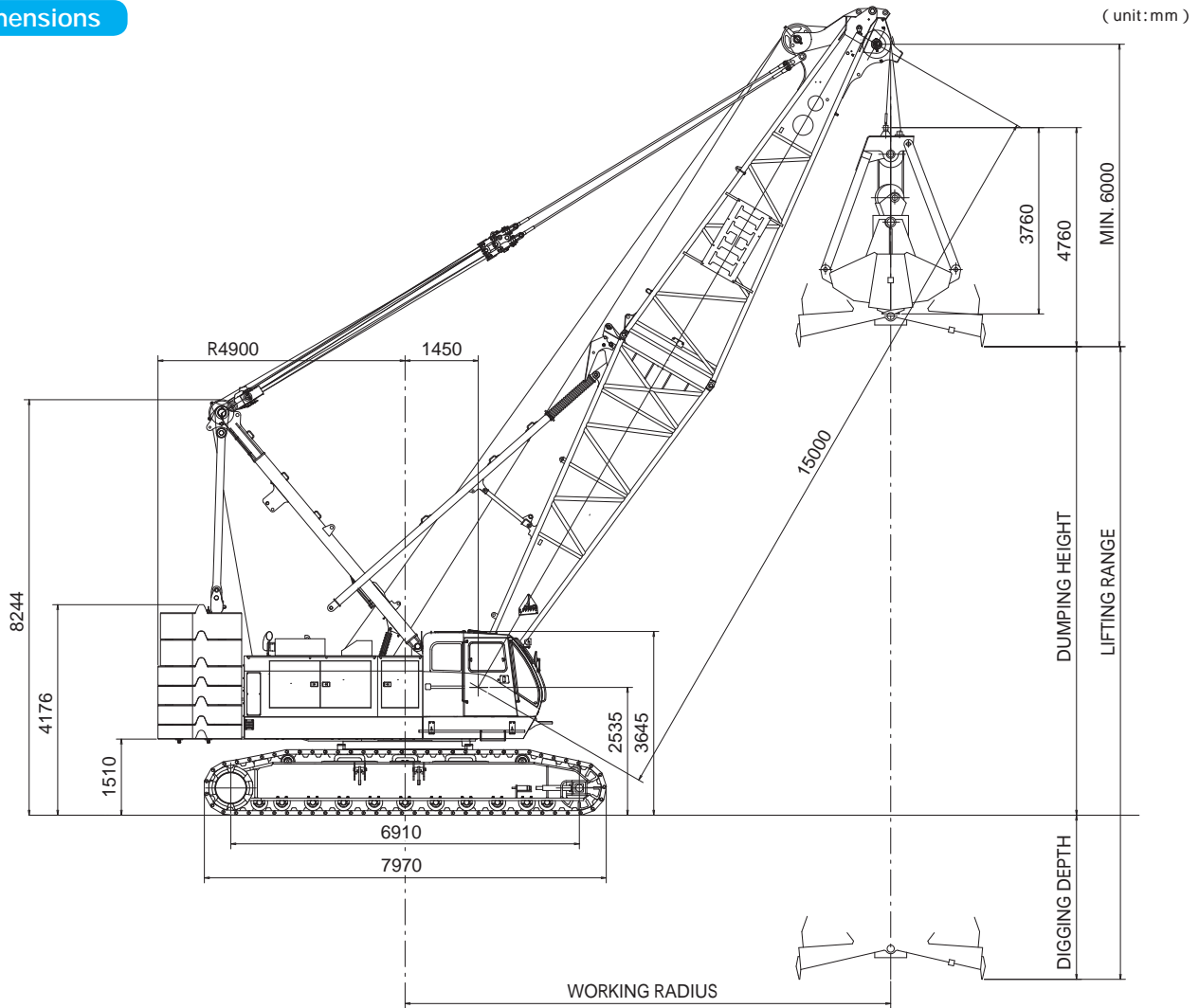


# CLAMSHELL SPECIFICATION

CCH1400

STANDARD BOOM CRANE

## Dimensions



### CCH1400 Main Specification

PERFORMANCE		
Slewing speed	2.1min <sup>-1</sup>	
Travel speed	1.5/1.0km/hr	
Gradeability	30% (16.7°)	
Engine	Manufacturer	Cummins Inc.
	Model	QSL
	Emission Certification	U.S.EPA Tier3, CARB Tier3, EU Stage A
	Type	4-cycle, water-cooled, turbocharged and air cooled
	Rated output	242kW /2,000min <sup>-1</sup>
	Total displacement	8.9L
	Fuel tank capacity	420L
	Battery	12V x 2pcs.

### Clamshell Specification (Special specifications)

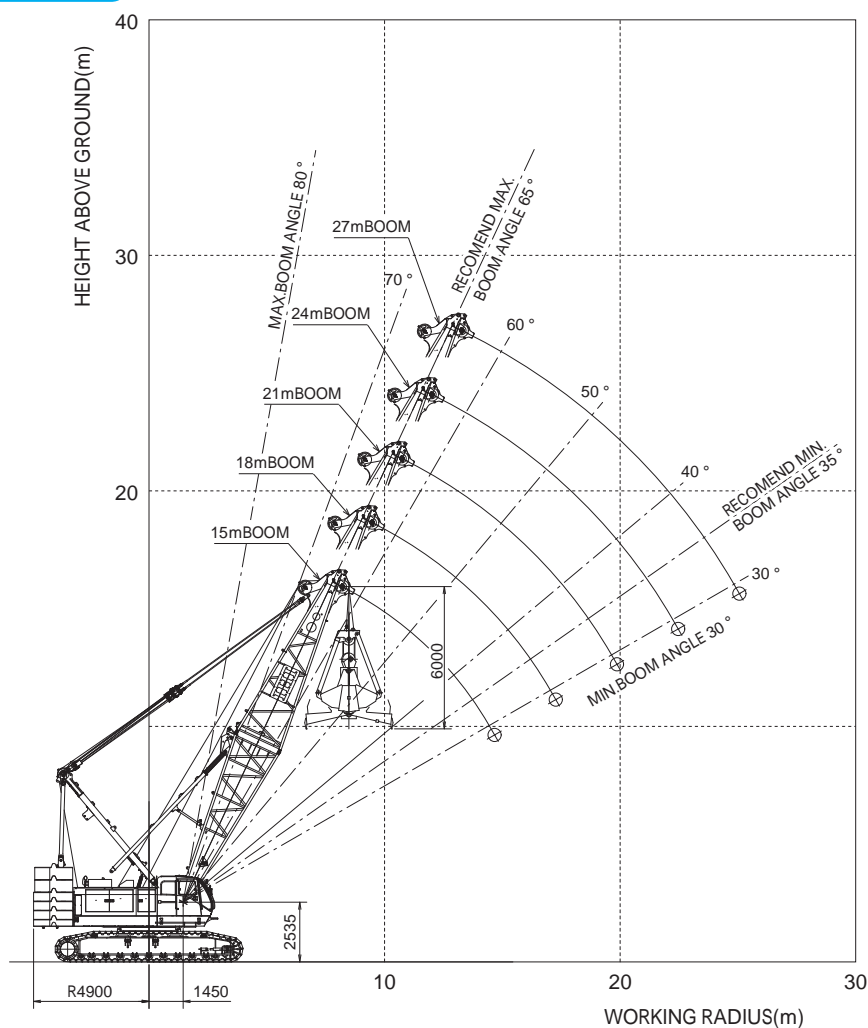
PERFORMANCE		
Lifting Range	46.0m (15m Boom+2.5m <sup>3</sup> Bucket)	
Rope speed	hoisting/ lowering	* 115m/min
	Boom hoisting/ lowering	* 73m/min
Rope part lines	Bucket Closing	6 part lines (all bucket common)
	Bucket Holding	1 part line (all bucket common)
	Boom hoist	12 part lines
Line Pull	Max. Line Pull	19.7t / 193kN
	Rated Line Pull	12.0t / 118kN
Maximum lifting capacity	11.0t (Bucket weight + Load)	
Standard counterweight	61.0t	
Crane total weight	Approx. 138t (15m Boom +2.5m <sup>3</sup> Bucket)	
Average ground bearing pressure	Approx. 100 kPa (1.02kgf/cm <sup>2</sup> )	

\* The value marked with "\*" will be changed according to the loads given.

# CLAMSHELL SPECIFICATION

## STANDARD BOOM CRANE

### Working Ranges Diagram



### Clamshell Bucket Specification

Classifications	Capacity (m <sup>3</sup> )	Weight (ton)	Classifications
Heavy digging (Dredging)	1.6	6.2	Option
General digging - Heavy duty	2.5	5.5	Standard
Medium duty	3.0	4.5	Option
Light duty	4.0	4.0	Option
Light duty	5.0	4.0	Option

### Wire Rope

Purpose	Rope dia (mm)	Breaking strength (kN)	Rope type
Bucket closing	φ26	567	IWRC 6xP·WS (31)
Bucket suspension	φ26	567	IWRC 6xP·WS (31)
Boom hoist	φ22.4	357	IWRC 6xWS (31)
Boom suspension	φ34	1020	IWRC 6xP·WS (36)
Hydraulic tugline	φ10	54	6x19

### Working Radius and Rated Loads

Boom length (m)	15.0				18.0				21.0				24.0				27.0			
	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55	65
Working radius (m)	14.3	12.7	10.7	8.5	16.7	14.8	12.4	9.8	19.2	16.9	14.2	11.0	21.7	19.0	15.9	12.3	24.1	21.1	17.6	13.6
Rated lifting loads (t)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Boom point height (m)	10.8	12.8	14.6	15.9	12.5	14.9	17.0	18.7	14.2	17.1	19.5	21.4	15.9	19.2	21.9	24.1	17.6	21.3	24.4	26.8
Max. dumping height (m)	4.8	6.8	8.6	9.9	6.5	8.9	11.0	12.7	8.2	11.1	13.5	15.4	9.9	13.2	15.9	18.1	11.6	15.3	18.4	20.8
Max. digging depth (m)	41.2	39.2	37.4	36.1	39.5	37.1	35.0	33.3	37.8	34.9	32.5	30.6	36.1	32.8	30.1	27.9	34.4	30.7	27.6	25.2

Note:

1. THE MAXIMUM BOOM LENGTH IS 27 METERS.
2. THE RATED LIFTING LOAD INDICATES THE MAXIMUM LIFTING WEIGHT OF A BUCKET AND ITS CONTENT. SELECT AN APPROPRIATE BUCKET DEPENDING ON CONTENT, SO AS NOT TO EXCEED THE RATED LIFTING LOAD.
3. THE WORKING RADIUS REFERS TO THE HORIZONTAL DISTANCE FROM THE CENTER OF SWINGING TO THE VERTICAL LINE THROUGH THE CENTER OF THE BUCKET.
4. MAXIMUM DUMPING HEIGHT DEPENDS ON THE HEIGHT OF A BUCKET ATTACHED. IN THE CHART, TOP CLEARANCE OF 6 METERS IS ASSUMED.
5. MAXIMUM DIGGING DEPTH IS THE VALUE CALCULATED BY SUBTRACTING MAXIMUM DUMPING HEIGHT FROM THE MAXIMUM LIFTING RANGE OF 46 METERS.
6. THE AUX. JIB CANNOT BE USED FOR BUCKET WORK.
7. WHEN LOWERING A BUCKET USING HALF BRAKE, ENSURE THAT THE DROP HEIGHT IS ABOUT 10 METERS OR LESS. USE POWERED LOWERING AS WELL AS FREE FALL WHEN THE DROP HEIGHT IS HIGHER THAN 10 METERS.
8. THE MAXIMUM WEIGHT OF A BUCKET IS 6.2 TONS, BUT IT IS NECESSARY TO USE A LIGHTER BUCKET DEPENDING ON WORK CYCLE AND DROP HEIGHT.
9. AVOID SUDDEN ACCELERATION OR DECELERATION WHILE SLEWING THE MACHINE, WHICH WOULD APPLY DRAGGING THE LOAD SIDEWAY TO THE BOOM. BE CAREFUL ESPECIALLY WHEN A LONGER BOOM IS USED.

## STANDARD EQUIPMENT

### Safety Devices

Moment Limiter: Over-load prevention devices  
 Alarm at 90%, automatic stop at 100%  
 Hook over-winding: Alarm and automatic stopper  
 Boom over-hoisting: Automatic stopper  
 Boom 2nd over-hoisting: All winch function (non resetable)  
 Boom backstopper: Double-stem telescopic  
 Swing lock: Pin-lock type  
 Main and Auxiliary drum lock: Pawl type  
 Boom hoisting drum lock: Pawl type  
 Lever lock: Remote control circuit line cut off  
 Automatic brake system  
 Slewing warning buzzer (with voice alarm)  
 Travel warning buzzer (with voice alarm)  
 Engine start voice alarm  
 Switch of emergency engine stop  
 Hydraulic safety valves  
 Planking (case for support boom hoisting)

### Instrument

Tachometer (displayed by Moment Limiter)  
 Hour meter  
 Hydraulic pressure gauge for control circuit  
 Fuel level gauge  
 Engine coolant temperature gauge (indicated by OK monitor)  
 Engine diagnostic monitor  
 Ultra low speed control (Standard on Moment limiter)

### Auxiliary DEVICE

Speed control for slewing  
 Speed control for winch  
 Pump power shift device  
 Remote controller for jack and crawler connect cylinder

### Lighting

Work light: 24V x 80W  
 Room light: 24V x 10W

### Others

Air conditioner    Front windshield wiper    Ceiling wiper  
 Sun shade    Sun visor    Storage pouch    Tool box  
 Reclining operator's seat    Floor mat  
 Step for operator's cab (retractable type)    Radio  
 Cigarette lighter    Rear view monitors (on both sides)  
 Warning horn    Electric fuel pump  
 "A" frame hoist cylinders    Bronze tinted glass    Footrest  
 Electric engine throttle control grip    Engine throttle pedal  
 Loud speaker    Crawler connect cylinder  
 Rope guide roller on the boom back (for outer boom)

## OPTIONAL SPECIFICATIONS

### Additional DEVICE

3rd hoisting winch(no free fall)  
 Main/Auxiliary hoisting winch with free fall (with mode selector)  
 Reeving winch combined use tagline  
 Tagline  
 Foot pin cylinder  
 Drum rotation indicator  
 Monitor TV (for rear/drum view)  
 Monitor TV (for hook/load)  
 Mirror for drum  
 Combustion type heater  
 Fire extinguisher  
 Operator cabin roof guard

### Light and Instrument

Yellow rotary light  
 Airplane warning light  
 Over-load outside alarm light (red/yellow/green)  
 Work light for drum  
 Work light on boom  
 Hand light  
 Back light  
 Level  
 Anemometer

### Step and Guard

Cat walk (no handrail, for rear cab)  
 Handrail for cat walk  
 Wire-mesh boom walkway (for inner boom)  
 Wire-mesh boom walkway (for insert boom and outer boom)  
 Safety guard on cab (handrail)  
 Safety guard rope on main boom (stanchion rope)

### Attachment

3m/6m/9m insert boom (with pendant rope and guide roller)  
 Taper insert boom of light boom & 3m, 6m insert jib boom (for TW)  
 13m basic jib(with pendant rope and guide roller) & 6m insert jib (for CR)  
 10m basic jib and 6m insert jib (with pendant rope and guide roller)  
 1m auxiliary jib and auxiliary wire rope  
 140t double hook block (five sheaves)  
 120t double hook block (five sheaves)  
 80t double hook block (three sheaves)  
 60t double hook block (three sheaves)  
 60t single hook block (three sheaves)  
 40t single hook block (one sheaves)  
 13.5t hook block (for  $\phi$ 28 wire rope )  
 12t hook block (for  $\phi$ 26 wire rope )

### Name Plate

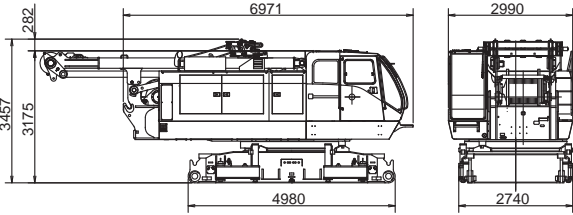
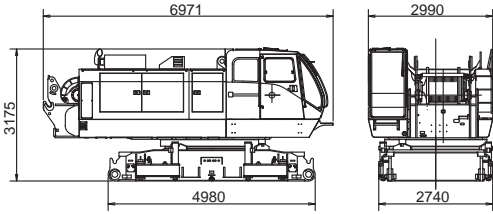
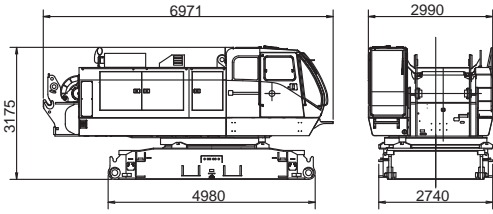
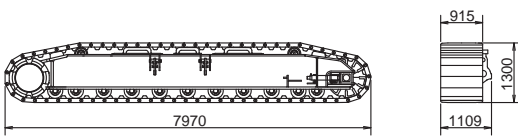
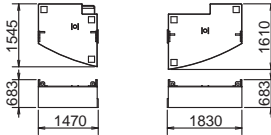
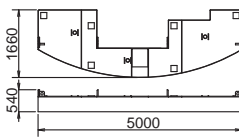
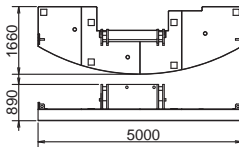
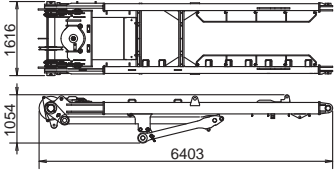
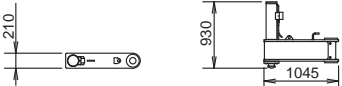
Name plate (both side of base machine)  
 Name plate (outer boom)

### Other

Large size tool box (with caster)  
 Sling wire rope (for lifting machine, attachment)  
 Lifting pad for crawler

# CC1400

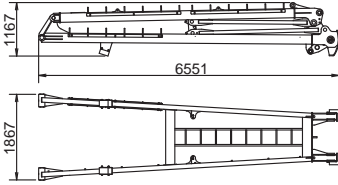
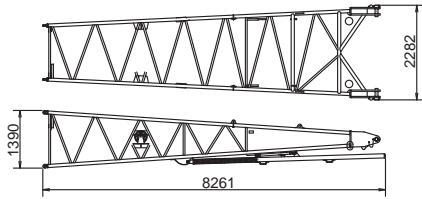
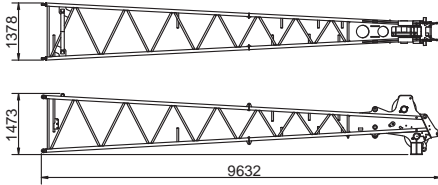
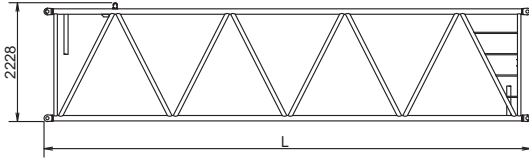
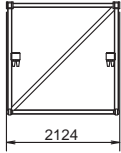
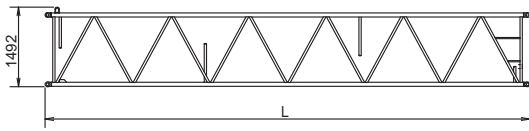
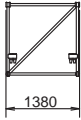
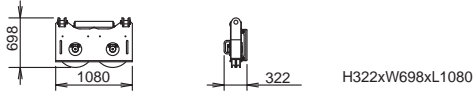
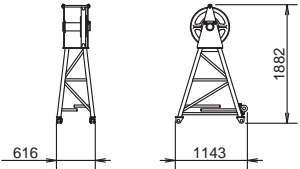
## Transport Dimensions and Weights

Name	Dimension (mm)	Q'ty	Weight (ton)
1st Disassembly Base Machine with: Main/Aux. Boom Hoist Drum Main/Boom Hoist Wire A-Frame Equalizer Jack		1	35.30
2nd Disassembly Base Machine with: Main/Aux. Boom Hoist Drum Main/Boom Hoist Wire Jack		1	31.60
3rd Disassembly Base Machine with: Boom Hoist Drum		1	25.40
Crawler Ass'y		2	14.40
5 Stage( Left ) 6 Stage( Left ) 5 Stage( Right ) 6 Stage( Right )		4	4.90
4 Stage 3 Stage 2 Stage		3	9.80
Base Weight	 <p>4 x 4.90 3 x 9.80 1 x 12.00 Total 61.00</p>	1	12.00
A-Frame		1	2.92
Jack	 <p>H930xW210xL1045</p>	4	0.28

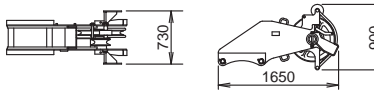
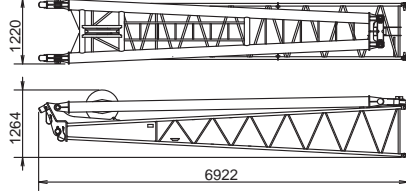
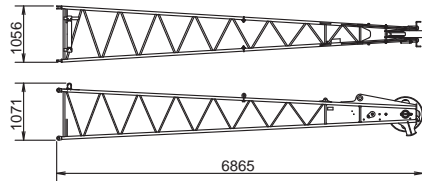
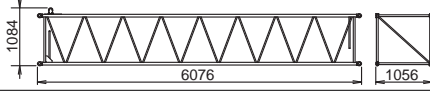
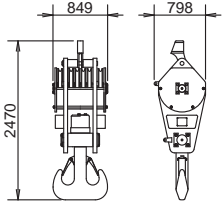
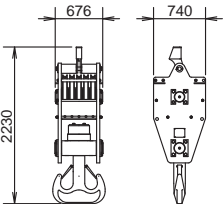
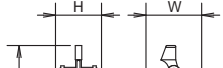


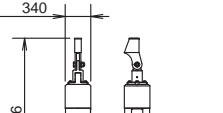
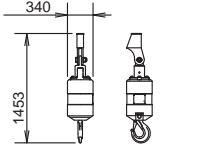
## Transport Dimensions and Weights

Crane/boom				
Name	Dimension (mm)	Q'ty	Weight (ton)	
Crane Inner Boom		1	3.21	
Outer Boom		1	2.52	
3m Insert Boom		1	0.51	
6m Insert Boom		1	0.82	
9m Insert Boom		1	1.12	
		<p>3m Insert Boom H2228xW2124xL3125</p> <p>6m Insert Boom H2228xW2124xL6125</p> <p>9m Insert Boom H2228xW2124xL9125</p>	1	1.18
Light Insert Boom		1	1.07	
Equalizer		1	0.79	
Tower boom/Jib				
Name	Dimension (mm)	Q'ty	Weight (ton)	
Tower Inner Boom		1	5.95	
Tower Top		1	2.24	

## Transport Dimensions and Weights

Tower boom/Jib			
Name	Dimension (mm)	Q'ty	Weight (ton)
Tower Strut	 <p>H1167xW1867xL6551</p>	1	1.65
Tower Inner Jib	 <p>H1390xW2282xL8261</p>	1	1.26
Tower Outer Jib	 <p>H1473xW1378xL9632</p>	1	1.17
3m Insert Boom	 <p>3m Insert Boom H2228xW2124xL3125</p> <p>6m Insert Boom H2228xW2124xL6125</p> <p>9m Insert Boom H2228xW2124xL9125</p> <p>9m Tower Special Insert Boom H2248xW2124xL9125</p> 	1	0.51
6m Insert Boom		1	0.82
9m Insert Boom		1	1.12
9m Tower Special Insert Boom		1	1.18
3m Tower Insert Jib	 <p>3m Tower Insert Jib H1492xW1380xL3090</p> <p>6m Tower Insert Jib H1492xW1380xL6090</p> <p>9m Tower Insert Jib H1492xW1380xL9090</p> 	1	0.25
6m Tower Insert Jib		1	0.43
9m Tower Insert Jib (Also for Crane Light Boom)		1	0.61
Middle Equalizer	 <p>H322xW698xL1080</p>	1	0.26
Guide Sheave	 <p>H1882xW616xL1143</p>	1	0.17

## Transport Dimensions and Weights

Crane Jib			
Name	Dimension (mm)	Q'ty	Weight (ton)
Aux. Jib	 <p>H900xW730xL1650</p>	1	0.33
Crane Inner Jib	 <p>H1264xW1220xL6922</p>	1	0.93
Crane Outer Jib	 <p>H1071xW1056xL6865</p>	1	0.38
6m Crane Insert Jib	 <p>H1084xW1056xL6076</p>	1	0.21
Hook (Crane & Tower)			
Name	Dimension (mm)	Q'ty	Weight (ton)
140t Hook	 <p>140t Hook H849xW798xL2470</p>	1	2.40
120t Hook	 <p>120t Hook H676xW740xL2230</p>	1	1.70
80t Hook	 <p>80t Hook H562xW740xL2216</p>	1	1.40
60t Hook	 <p>60t Hook H612xW740xL2130</p>	1	1.40
40t Hook	 <p>40t Hook H340xW340xL1696</p>	1	0.80
13.5t Hook	 <p>13.5t Hook H340xW340xL1696</p>	1	0.60
12t Hook	 <p>12t Hook H340xW340xL1453</p>	1	0.40



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