

**KOBELCO**

**HYDRAULIC CRAWLER CRANE**

***CKE2500***

Model: CKE2500-2



**Max. Lifting Capacity: 250 t x 4.6 m**  
**Max. Crane Boom Length: 91.4 m**  
**Max. Fixed Jib Combination: 76.2 + 30.5 m**  
**Max. Luffing Jib Combination: 61.0 + 61.0 m**

# CONFIGURATION

## Crane Boom

Max. Lifting Capacity:  
250 metric ton x 4.6 m  
Max. Boom Length:  
91.4 m



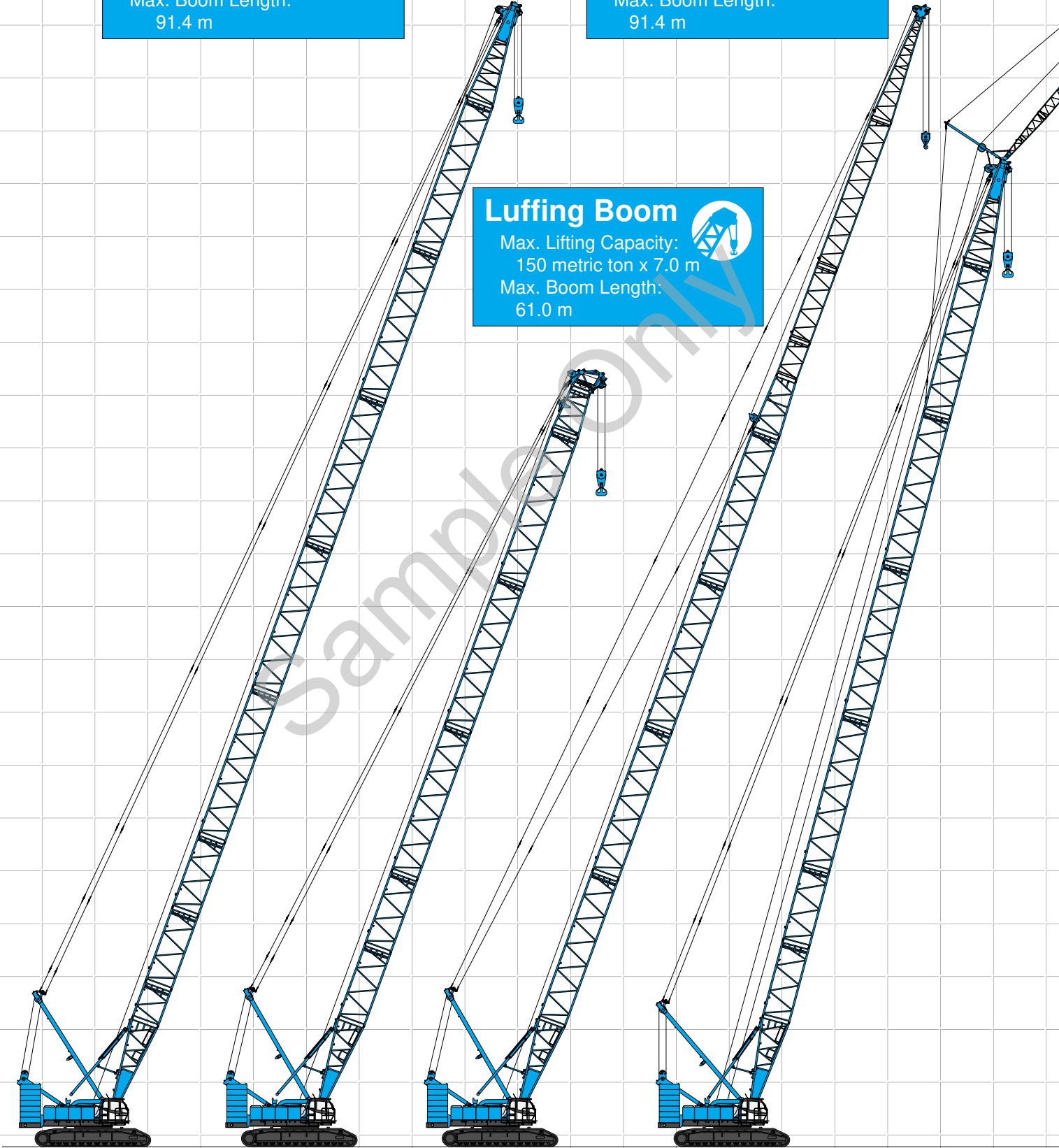
## Long Boom

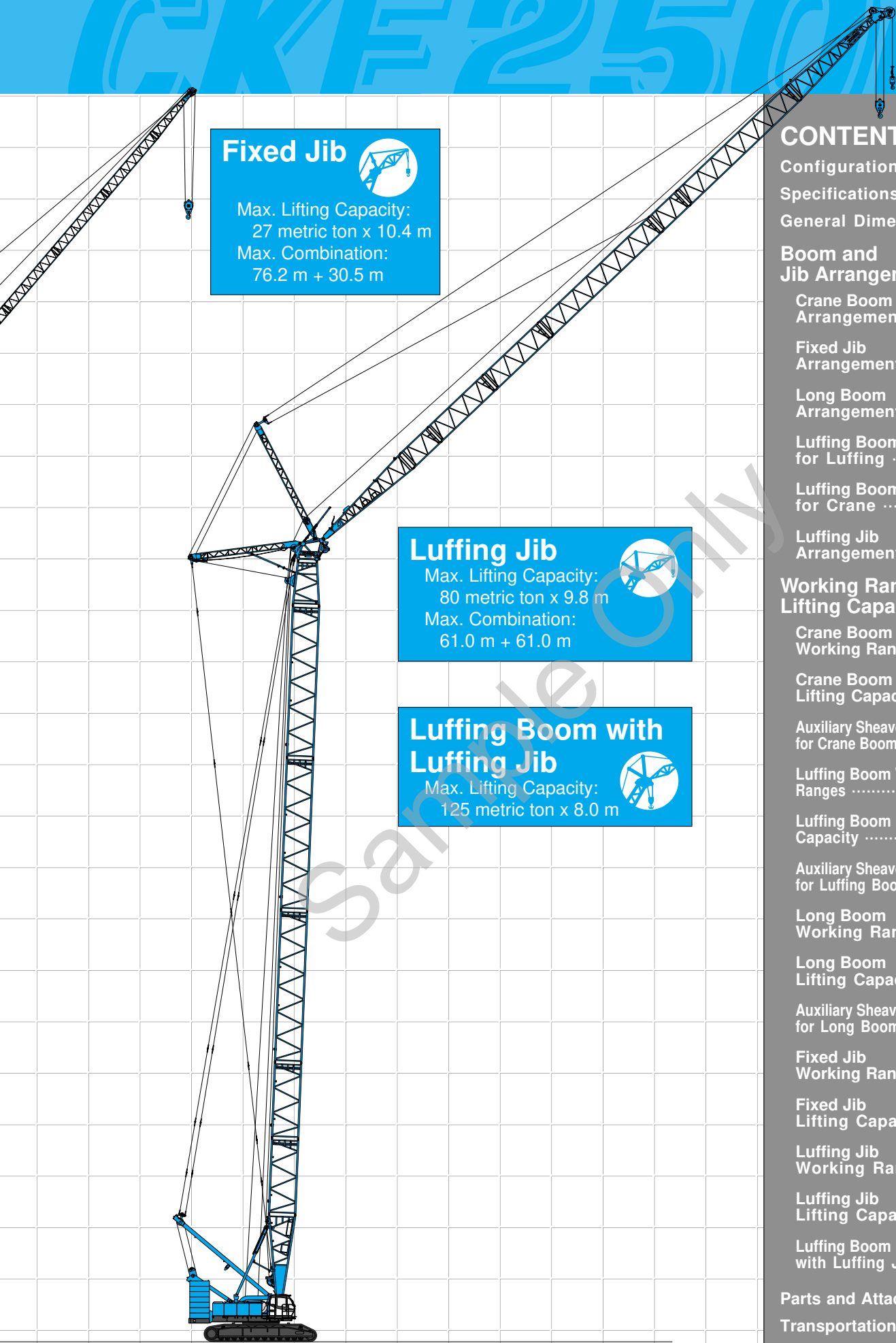
Max. Lifting Capacity:  
47.1 metric ton x 12.8 m  
Max. Boom Length:  
91.4 m




## Luffing Boom


Max. Lifting Capacity:  
150 metric ton x 7.0 m  
Max. Boom Length:  
61.0 m






**Fixed Jib** 

Max. Lifting Capacity:  
27 metric ton x 10.4 m  
Max. Combination:  
76.2 m + 30.5 m

**Luffing Jib** 

Max. Lifting Capacity:  
80 metric ton x 9.8 m  
Max. Combination:  
61.0 m + 61.0 m

**Luffing Boom with Luffing Jib** 

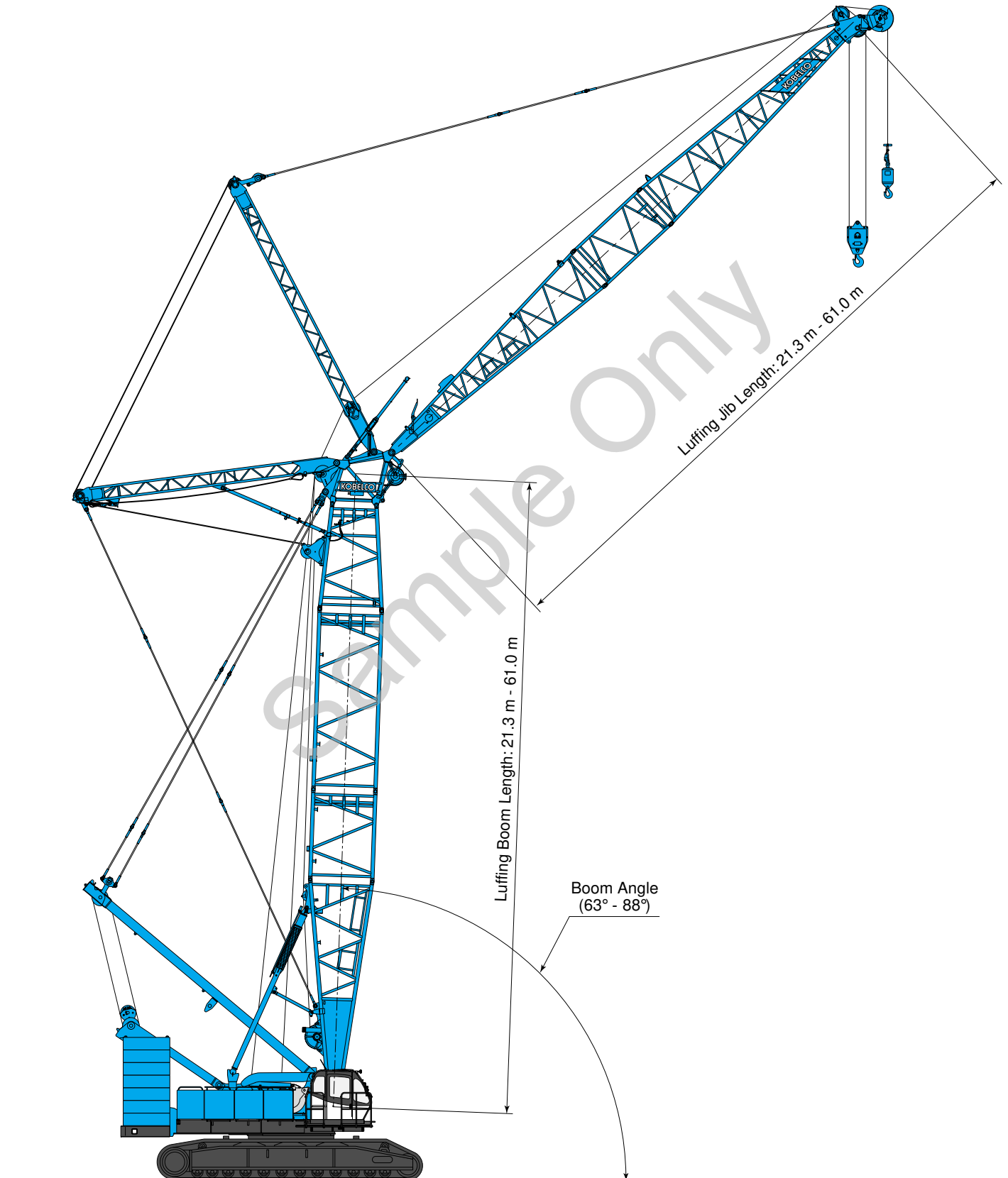
Max. Lifting Capacity:  
125 metric ton x 8.0 m

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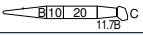
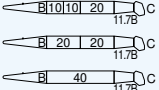
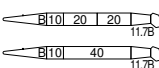
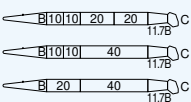
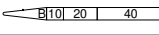
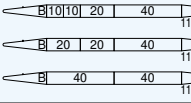
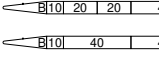
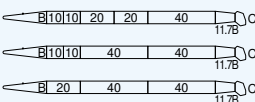
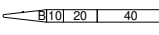
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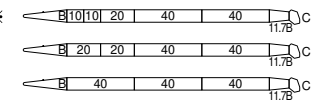
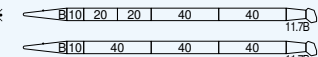
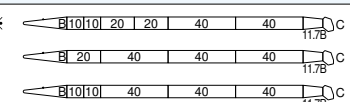
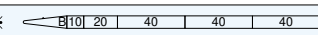
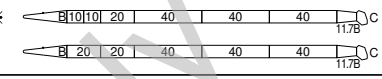
## Luffing Jib

(Unit: mm)









## Luffing Boom Arrangements for Luffing

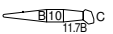
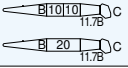
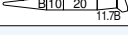
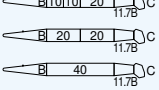
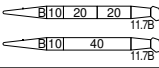
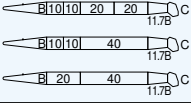
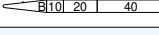
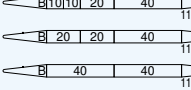
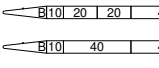
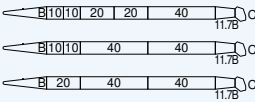
Boom length m (ft)	Boom arrangement
21.3 (70)	※ 
24.4 (80)	※ 
27.4 (90)	※ 
30.5 (100)	※ 
33.5 (110)	※ 
36.6 (120)	※ 
39.6 (130)	※ 
42.7 (140)	※ 
45.7 (150)	※ 

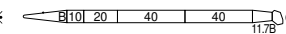
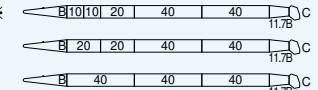
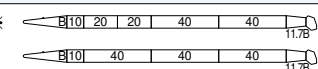
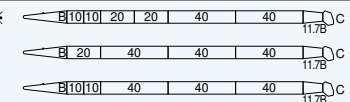
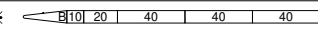
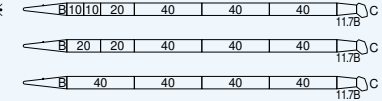
Boom length m (ft)	Boom arrangement
48.8 (160)	※ 
51.8 (170)	※ 
54.9 (180)	※ 
57.9 (190)	※ 
61.0 (200)	※ 

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.







Symbol	Luffing Boom Length	Remarks
	7.6 m	Boom Base
	1.0 m	Luffing Boom Top
	3.6 m	Luffing Tapered Boom
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom

## Luffing Boom Arrangements for Crane

Boom length m (ft)	Boom arrangement
15.2 (50)	
18.3 (60)	※ 
21.3 (70)	※ 
24.4 (80)	※ 
27.4 (90)	※ 
30.5 (100)	※ 
33.5 (110)	※ 
36.6 (120)	※ 
39.6 (130)	※ 
42.7 (140)	※ 

Boom length m (ft)	Boom arrangement
45.7 (150)	※ 
48.8 (160)	※ 
51.8 (170)	※ 
54.9 (180)	※ 
57.9 (190)	※ 
61.0 (200)	※ 

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Symbol	Luffing Boom Length	Remarks
	7.6 m	Boom Base
	1.0 m	Luffing Boom Top
	3.6 m	Luffing Tapered Boom
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom

# Luffing Jib Arrangements

Jib length m (ft)	Jib arrangement
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※ 
30.5 (100)	※
33.5 (110)	※  
36.6 (120)	※ 

Jib length m (ft)	Jib arrangement
39.6 (130)	※  
42.7 (140)	※
45.7 (150)	※  
48.8 (160)	※ 

Jib length m (ft)	Jib arrangement
51.8 (170)	※ 
54.9 (180)	※
57.9 (190)	※ 
61.0 (200)	※

↖ mark shows the installing position for mid suspension guy line.

※ Indicates the most flexible combination of insert luffing jibs, which can be modified to form all shorter luffing jib arrangements.

Symbol	Luffing Jib Length	Remarks
	9.1 m	Luffing Jib Base
	9.1 m	Luffing Jib Top
	3.0 m	Relay Jib
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	12.2 m	Luffing Insert Jib

## Luffing Boom and Jib Combinations.

		Jib Length (m)														
		21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	57.9	61.0	
Boom Length (m)	21.3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	24.4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	27.4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	30.5	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	33.5	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	36.6	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	39.6	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	42.7	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	45.7	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	48.8	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	51.8	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	54.9	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
57.9	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
61.0	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○	

○ : Combinations which is allowed.    × : Combinations which is not allowed.



## Hook Blocks

A range of hook blocks can be specified, each with a safety latch.

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)							
			1	2	3	4	5	6	7	8
250-ton	4,200	11	-	-	-	54.0	-	81.0	-	108.0
150-ton	2,300	6	-	-	40.5	54.0	67.5	81.0	94.5	108.0
70-ton	1,200	3	-	27.0	40.5	54.0	67.5	70.0	-	-
35-ton	900	1	-	27.0	35.0	-	-	-	-	-
13.5-ton ball hook	450	0	13.5	-	-	-	-	-	-	-

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)							
			9	10	12	14	16	18	20	22
250-ton	4,200	11	-	135.0	160.0	183.0	205.0	227.0	240.0	250.0
150-ton	2,300	6	121.5	135.0	150.0	-	-	-	-	-
70-ton	1,200	3	-	-	-	-	-	-	-	-
35-ton	900	1	-	-	-	-	-	-	-	-
13.5-ton ball hook	450	0	-	-	-	-	-	-	-	-



## Main Hoist Drum Rated Loads in Metric Tons

No. of Parts of Line	1	2	3	4	5	6	7	8
Max. Loads (ton)	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0

No. of Parts of Line	9	10	12	14	16	18	20	22
Max. Loads (ton)	121.5	135.0	160.0	183.0	205.0	227.0	240.0	250.0

## Style and Combination of Boom and Jib

	Style	Crane Boom	Luffing Boom	Long Boom	Fixed Jib	Luffing Jib
Boom	7.6 m boom base	Common use(1)	Common use(1)	Common use(1)	Common use(1)	Common use(1)
	7.6 m boom top	Common use(1)	N.A.	N.A.	Common use(1)	N.A.
	1.0 m luffing boom top	N.A.	Common use(1)	N.A.	N.A.	Common use(1)
	3.0 m insert boom	Common use(1)	Common use(2)	Common use(2)	Common use(2)	Common use(2)
	6.1 m insert boom	Common use(2)	Common use(1)	Common use(1)	Common use(1)	Common use(1)
	12.2 m insert boom	Common use(5)	Common use(3)	Common use(3)	Common use(4)	Common use(3)
	3.6 m luffing tapered boom	N.A.	Common use(1)	N.A.	N.A.	Common use(1)
	4.6 m tapered boom	N.A.	N.A.	Long Boom only(1)	N.A.	N.A.
Jib	4.6 m jib base	-	-	N.A.	Fixed jib only(1)	N.A.
	4.6 m jib top	-	-	N.A.	Fixed jib only(1)	N.A.
	3.0 m insert jib	-	-	N.A.	Fixed jib only(1)	N.A.
	6.1 m insert jib	-	-	N.A.	Fixed jib only(3)	N.A.
	9.1 m luffing jib base	-	-	N.A.	N.A.	Luffing jib only(1)
	9.1 m luffing jib top	-	-	Common use(1)	N.A.	Common use(1)
	3.0 m relay jib	-	-	Common use(1)	N.A.	Common use(1)
	3.0 m luffing insert jib	-	-	Common use(2)	N.A.	Common use(1)
	6.1 m luffing insert jib	-	-	Common use(2)	N.A.	Common use(2)
	12.2 m luffing insert jib	-	-	Common use	N.A.	Common use(2)

Note: 1. Figure in ( ) means the numbers of the maximum usable boom (or jib) respectively.  
2. N.A.: Not applicable

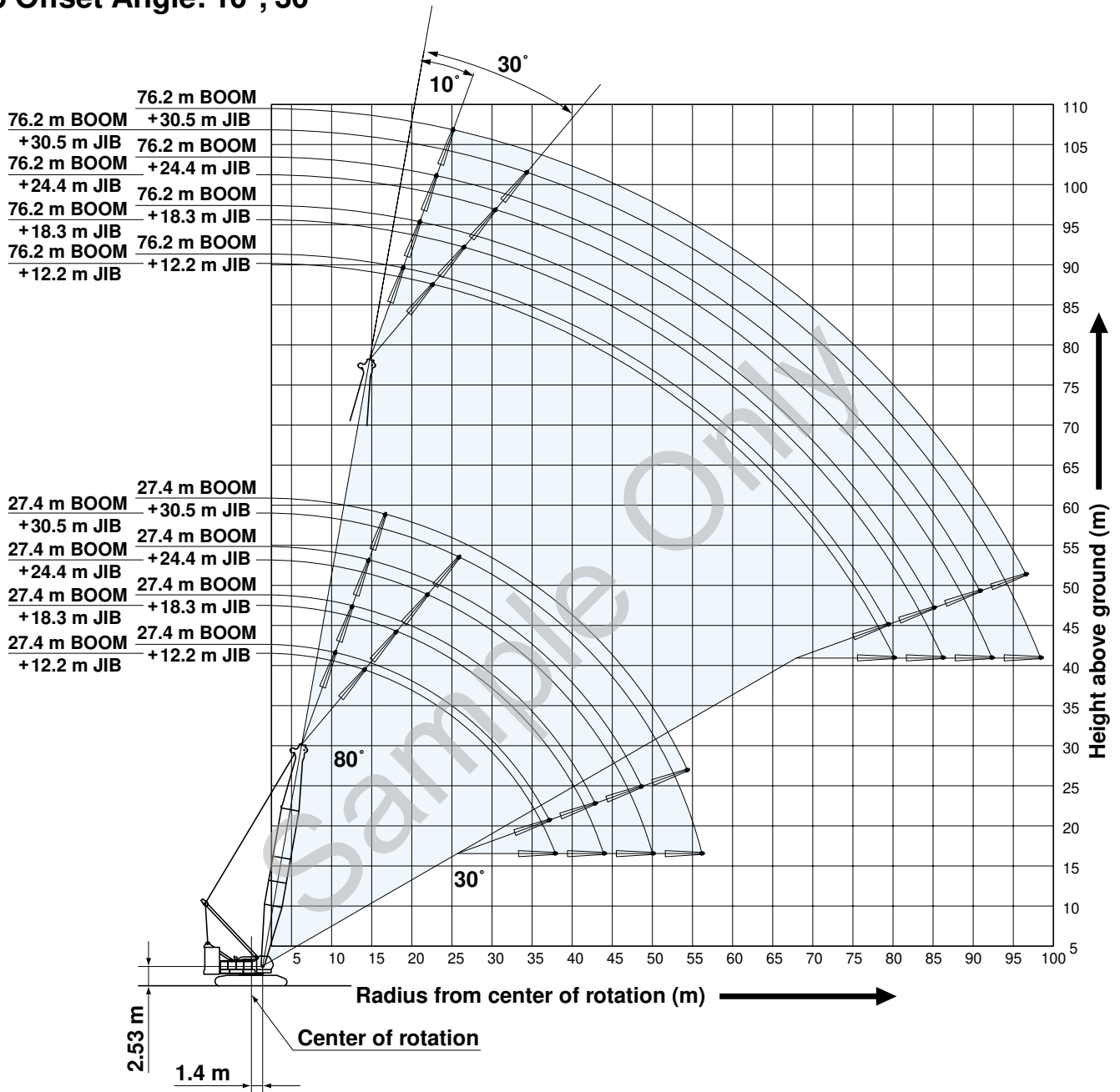
## Symbols for Attachments:

Crane Boom	Auxiliary Sheave for Crane Boom	Luffing Boom	Auxiliary Sheave for Luffing Boom	Long Boom	Auxiliary Sheave for Long Boom	Fixed Jib	Luffing Jib	Luffing Boom with Luffing Jib



# Fixed Jib Working Ranges

Jib Offset Angle: 10°, 30°



## NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in   are determined by the strength of the boom or other structural component.
14. When erecting or lowering the boom length of 76.2 m, the pillow plate for erection must be placed at the end of crawlers.
15. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
16. Fixed jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from fixed jib ratings shown.
17. Crane boom lengths for fixed jib mounting are 27.4 m to 76.2 m.
18. One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.





# HYDRAULIC CRAWLER CRANE RKE 2500

## Fixed Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

Jib Offset Angle: 10°

Counterweight: 90.0 t, Carbody weight: 24.0 t

Boom length (m)		27.4				36.6				45.7				54.9				Boom length (m)
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
Working radius (m)	10.0	10.4 m/27.0																10.0
	12.0	25.5	12.5 m/21.2			26.6				13.6 m/26.5								12.0
	14.0	24.3	20.4	14.6 m/12.1		25.5	14.1 m/21.2			26.3	15.7 m/21.2			15.2 m/26.4				14.0
	16.0	23.0	19.3	11.8	16.7 m/6.8	24.5	20.3	16.2 m/12.1		25.4	21.0	17.8 m/12.1		26.2	17.3 m/21.1			16.0
	18.0	21.8	18.4	11.2	6.5	23.6	19.4	11.7	18.3 m/6.8	24.6	20.2	12.1	19.9 m/6.7	25.4	20.9	19.4 m/12.1		18.0
	20.0	20.7	17.5	10.7	6.2	22.7	18.6	11.2	6.5	23.8	19.5	11.6	6.7	24.7	20.2	12.0	21.5 m/6.8	20.0
	22.0	19.8	16.8	10.3	5.9	21.9	17.9	10.8	6.2	23.0	18.8	11.3	6.4	23.9	19.5	11.6	6.7	22.0
	24.0	18.9	16.1	9.9	5.6	21.2	17.2	10.4	5.9	22.2	18.1	10.9	6.2	23.2	18.9	11.3	6.4	24.0
	26.0	18.1	15.4	9.4	5.3	20.5	16.6	10.1	5.7	21.5	17.5	10.5	5.9	22.5	18.3	10.9	6.2	26.0
	28.0	17.3	14.3	9.1	5.1	19.8	16.1	9.7	5.4	20.7	17.0	10.2	5.7	21.9	17.8	10.6	6.0	28.0
	30.0	16.7	13.4	8.7	4.9	19.1	15.5	9.4	5.2	20.0	16.5	9.9	5.5	21.3	17.3	10.3	5.8	30.0
	34.0	15.5	11.9	8.1	4.5	17.8	13.8	8.7	4.8	18.6	15.6	9.3	5.1	20.1	16.4	9.8	5.4	34.0
	38.0	37.1 m/14.5	10.7	7.6	4.2	16.4	12.4	8.2	4.5	17.1	14.0	8.8	4.8	17.4	15.6	9.2	5.1	38.0
	42.0		9.8	7.1	3.9	15.3	11.3	7.7	4.2	15.5	12.8	8.3	4.5	14.9	14.2	8.8	4.8	42.0
	46.0		42.9 m/9.7	6.8	3.7	45.1 m/14.4	10.5	7.3	4.0	13.6	11.8	7.9	4.2	12.8	13.1	8.3	4.5	46.0
	50.0			48.6 m/6.6	3.5		9.8	7.0	3.8	11.9	11.0	7.5	4.0	11.1	11.6	8.0	4.3	50.0
	54.0				3.2		50.8 m/9.6	6.7	3.6	53.0 m/10.9	10.3	7.2	3.8	9.7	10.1	7.6	4.1	54.0
	58.0				54.3 m/3.1			56.5 m/6.5	3.4		9.7	6.9	3.7	8.5	8.9	7.3	3.9	58.0
	62.0								3.2		58.7 m/9.6	6.7	3.5	60.9 m/7.8	7.8	7.1	3.7	62.0
	66.0								62.3 m/3.1			64.4 m/6.5	3.4		6.9	6.8	3.6	66.0
70.0												3.1		66.6 m/6.8	6.5	3.5	70.0	
74.0													70.2 m/3.1		72.4 m/6.1	3.4	74.0	
78.0																3.2	78.0	
82.0																78.1 m/3.2	82.0	
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	Reeves	

Boom length (m)		64.0				73.2				76.2				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	16.0	16.8 m/26.5												16.0	
	18.0	26.0	18.9 m/21.1			18.4 m/26.4				18.9 m/26.4				18.0	
	20.0	25.3	20.7	21.0 m/12.1		25.9	20.5 m/21.1			26.1	21.0 m/21.1			20.0	
	22.0	24.7	20.1	11.9	23.0 m/6.7	25.3	20.6	22.5 m/12.1		25.5	20.8	23.1 m/12.0			22.0
	24.0	24.1	19.5	11.6	6.6	24.7	20.0	11.8	24.6 m/6.7	24.9	20.2	11.9	25.2 m/6.7	24.0	
	26.0	23.5	19.0	11.3	6.4	24.2	19.5	11.5	6.5	24.4	19.7	11.6	6.6	26.0	
	28.0	23.0	18.4	11.0	6.2	23.7	19.0	11.2	6.3	23.9	19.2	11.3	6.4	28.0	
	30.0	22.4	18.0	10.7	6.0	22.6	18.5	11.0	6.2	21.7	18.7	11.1	6.2	30.0	
	34.0	19.8	17.1	10.2	5.6	18.9	17.7	10.5	5.8	18.3	17.9	10.6	5.9	34.0	
	38.0	16.6	16.3	9.7	5.3	15.8	16.3	10.0	5.5	15.5	15.9	10.1	5.6	38.0	
	42.0	14.1	14.5	9.2	5.0	13.3	13.8	9.6	5.2	13.0	13.5	9.7	5.3	42.0	
	46.0	12.0	12.5	8.8	4.7	11.2	11.7	9.2	4.9	10.9	11.4	9.3	5.0	46.0	
	50.0	10.3	10.7	8.4	4.5	9.5	10.0	8.8	4.7	9.2	9.7	8.9	4.8	50.0	
	54.0	8.9	9.3	8.0	4.3	8.1	8.5	8.4	4.5	7.8	8.2	8.5	4.5	54.0	
	58.0	7.7	8.1	7.7	4.1	6.9	7.3	7.8	4.3	6.5	7.0	7.6	4.4	58.0	
	62.0	6.6	7.0	7.5	3.9	5.8	6.2	6.8	4.1	5.5	5.9	6.5	4.2	62.0	
	66.0	5.7	6.1	6.6	3.8	4.9	5.3	5.8	4.0	4.6	5.0	5.5	4.0	66.0	
	70.0	68.8 m/5.1	5.3	5.7	3.6	4.1	4.5	5.0	3.8	3.7	4.1	4.7	3.9	70.0	
	74.0		4.6	5.0	3.5	3.4	3.7	4.3	3.7	3.0	3.4	4.0	3.7	74.0	
	78.0		74.6 m/4.5	4.3	3.4	76.7 m/2.9	3.1	3.6	3.6	2.4	2.8	3.3	3.5	78.0	
82.0			80.3 m/4.0	3.4		2.5	3.0	3.3	79.4 m/2.2	2.2	2.7	3.0	82.0		
86.0				3.2		82.5 m/2.5	2.5	2.7		85.1 m/1.8	2.2	2.5	86.0		
90.0							88.2 m/2.2	2.1			1.7	2.0	90.0		
94.0								93.9 m/1.8			90.8 m/1.5	1.6	94.0		
98.0												96.6 m/1.3	98.0		
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	Reeves		

Note: Ratings according to EN13000.  
Ratings shown in   are determined by the strength of the boom or other structural components.  
Refer to notes P21.  
\* One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

# Jib Offset Angle: 30°

Counterweight: 90.0 t, Carbody weight: 24.0 t

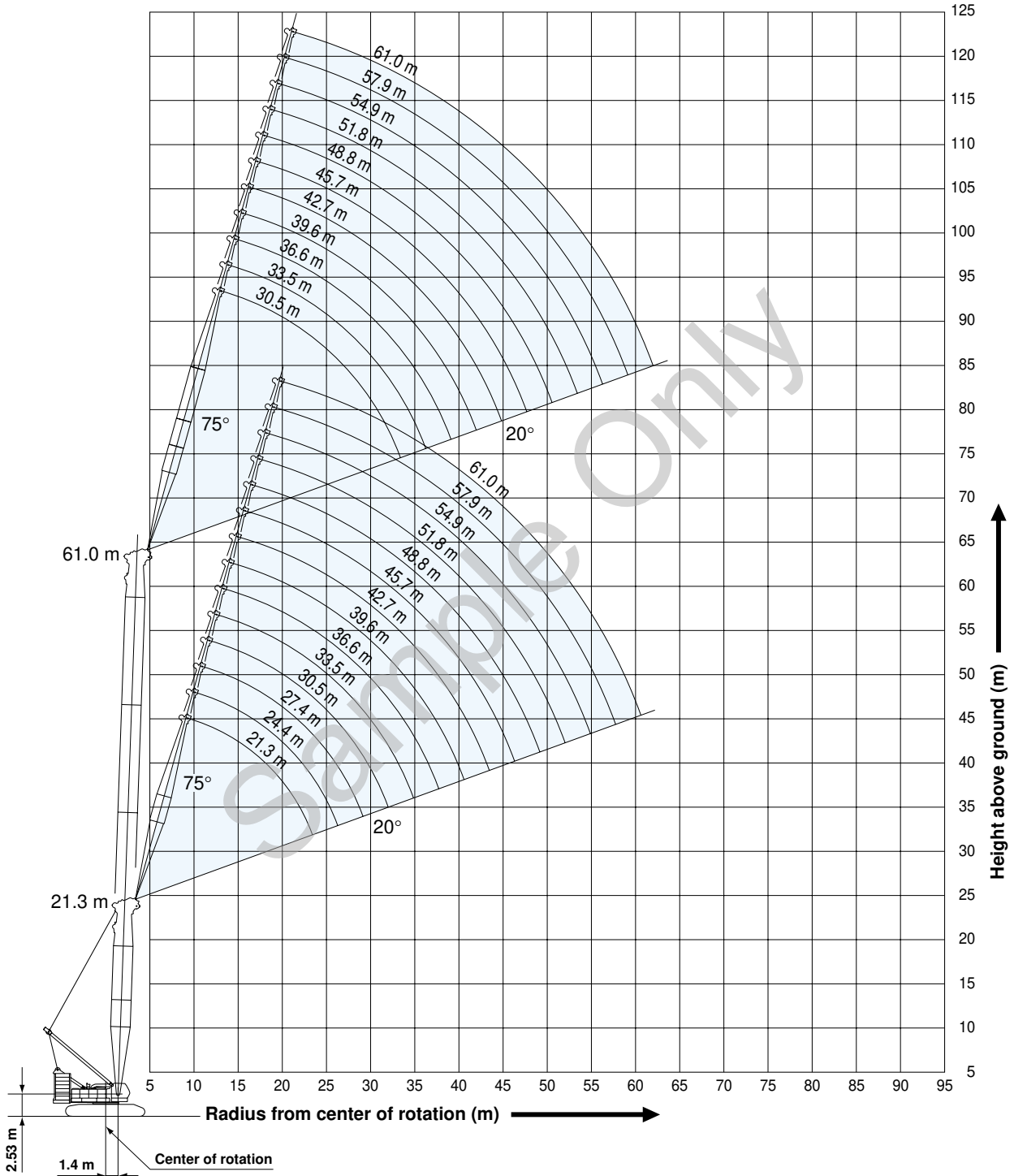
Boom length (m)		27.4				36.6				45.7				54.9				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	14.0	14.1 m/19.3				15.7 m/19.3												14.0	
	16.0	18.7				19.2				17.3 m/19.2								16.0	
	18.0	17.9	13.5			18.7	19.6 m/13.5			19.1				18.9 m/19.2				18.0	
	20.0	16.8	13.5	21.9 m/8.2		18.1	13.5			18.7	21.2 m/13.5			19.0				20.0	
	22.0	15.9	13.1	8.2		17.2	13.5	23.5 m/8.1		18.2	13.5			18.6	22.8 m/13.5			22.0	
	24.0	15.2	12.6	7.9	25.9 m/4.4	16.4	13.1	8.1		17.4	13.4	25.1 m/8.1		18.2	13.5			24.0	
	26.0	14.5	12.0	7.6	4.4	15.7	12.8	7.9	27.5 m/4.3	16.7	13.2	8.0		17.6	13.4	26.7 m/8.1		26.0	
	28.0	13.9	11.4	7.4	4.2	15.1	12.3	7.6	4.3	16.1	12.9	7.8	29.0 m/4.4	17.0	13.2	8.0		28.0	
	30.0	13.4	10.9	7.2	4.1	14.6	11.8	7.4	4.2	15.6	12.5	7.6	4.3	16.4	12.9	7.8	30.6 m/4.3	30.0	
	34.0	12.7	10.0	6.8	3.8	13.7	10.9	7.1	4.0	14.6	11.6	7.3	4.1	15.5	12.2	7.5	4.2	34.0	
	38.0	37.9 m/12.4	9.4	6.5	3.7	13.0	10.2	6.8	3.8	13.9	10.9	7.0	3.9	14.7	11.5	7.2	4.0	38.0	
	42.0		9.0	6.2	3.5	12.6	9.6	6.5	3.6	13.3	10.3	6.7	3.7	14.0	10.9	6.9	3.8	42.0	
	46.0		44.0 m/8.9	6.1	3.3	45.8 m/12.4	9.2	6.3	3.5	12.8	9.8	6.5	3.6	13.2	10.4	6.7	3.7	46.0	
	50.0			6.1	3.3		8.9	6.1	3.4	12.1	9.4	6.3	3.5	11.4	9.9	6.5	3.6	50.0	
	54.0			50.1 m/6.1	3.0		51.9 m/8.9	6.1	3.3	53.7 m/10.7	9.1	6.2	3.4	9.9	9.5	6.4	3.5	54.0	
	58.0				56.2 m/2.8			6.1	3.1		8.9	6.1	3.3	8.6	9.2	6.2	3.4	58.0	
	62.0								2.9		59.8 m/8.9	6.1	3.3	61.6 m/7.6	8.2	6.1	3.3	62.0	
	66.0								64.1 m/2.8			65.9 m/6.1	3.1		7.2	6.0	3.2	66.0	
	70.0												2.9		67.7 m/6.8	6.0	3.2	70.0	
	74.0													72.0 m/2.8		73.8 m/6.0	3.1	74.0	
78.0																2.9	78.0		
82.0																79.9 m/2.8	82.0		
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	Reeves		

Boom length (m)		64.0				73.2				76.2				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	20.0	20.5 m/19.2													20.0
	22.0	18.9				19.1				22.6 m/19.1					22.0
	24.0	18.6	24.4 m/13.5			18.8				18.9					24.0
	26.0	18.3	13.5			18.6	13.5			18.7	26.5 m/13.5				26.0
	28.0	17.7	13.4	28.3 m/8.1		18.3	13.5	29.9 m/8.1		18.4	13.5				28.0
	30.0	17.2	13.2	7.9	32.2 m/4.3	17.8	13.4	8.0	33.8 m/4.3	18.0	13.4	30.4 m/8.0			30.0
	34.0	16.2	12.8	7.6	4.2	16.8	13.0	7.8	4.3	17.0	13.1	7.8	34.3 m/4.3		34.0
	38.0	15.4	12.0	7.4	4.1	16.0	12.5	7.5	4.1	16.2	12.7	7.5	4.2		38.0
	42.0	14.6	11.4	7.1	3.9	13.9	11.9	7.3	4.0	13.6	12.0	7.3	4.0		42.0
	46.0	12.4	10.9	6.9	3.8	11.7	11.3	7.1	3.8	11.5	11.5	7.1	3.9		46.0
	50.0	10.7	10.4	6.7	3.7	10.0	10.9	6.9	3.7	9.7	10.6	6.9	3.8		50.0
	54.0	9.2	10.0	6.5	3.6	8.5	9.3	6.7	3.6	8.2	9.1	6.7	3.7		54.0
	58.0	7.9	8.7	6.4	3.4	7.2	8.0	6.5	3.5	6.9	7.7	6.6	3.5		58.0
	62.0	6.8	7.5	6.3	3.4	6.1	6.9	6.4	3.4	5.8	6.6	6.4	3.5		62.0
	66.0	5.8	6.5	6.1	3.3	5.1	5.8	6.3	3.4	4.8	5.6	6.1	3.4		66.0
	70.0	69.6 m/5.1	5.6	6.1	3.3	4.2	5.0	5.5	3.3	3.9	4.7	5.2	3.3		70.0
	74.0		4.8	5.3	3.2	3.4	4.2	4.7	3.3	3.2	3.9	4.4	3.3		74.0
	78.0		75.7 m/4.5	4.6	3.2	77.5 m/2.9	3.4	3.9	3.2	2.5	3.2	3.7	3.2		78.0
	82.0			81.8 m/3.9	3.0		2.8	3.3	3.2	80.1 m/2.2	2.5	3.0	3.2		82.0
	86.0				2.9		83.6 m/2.5	2.7	2.9		1.9	2.4	2.8		86.0
90.0				87.8 m/2.8			89.7 m/2.1	2.5		86.2 m/1.9	1.8	2.3		90.0	
94.0								2.0			92.3 m/1.5	1.8		94.0	
98.0								95.8 m/1.7				1.4		98.0	
100.0												98.4 m/1.3		100.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	Reeves		

Note: Ratings according to EN13000.  
Ratings shown in    are determined by the strength of the boom or other structural components.  
Refer to notes P21.

# Luffing Jib Working Ranges

Boom Angle: 88°



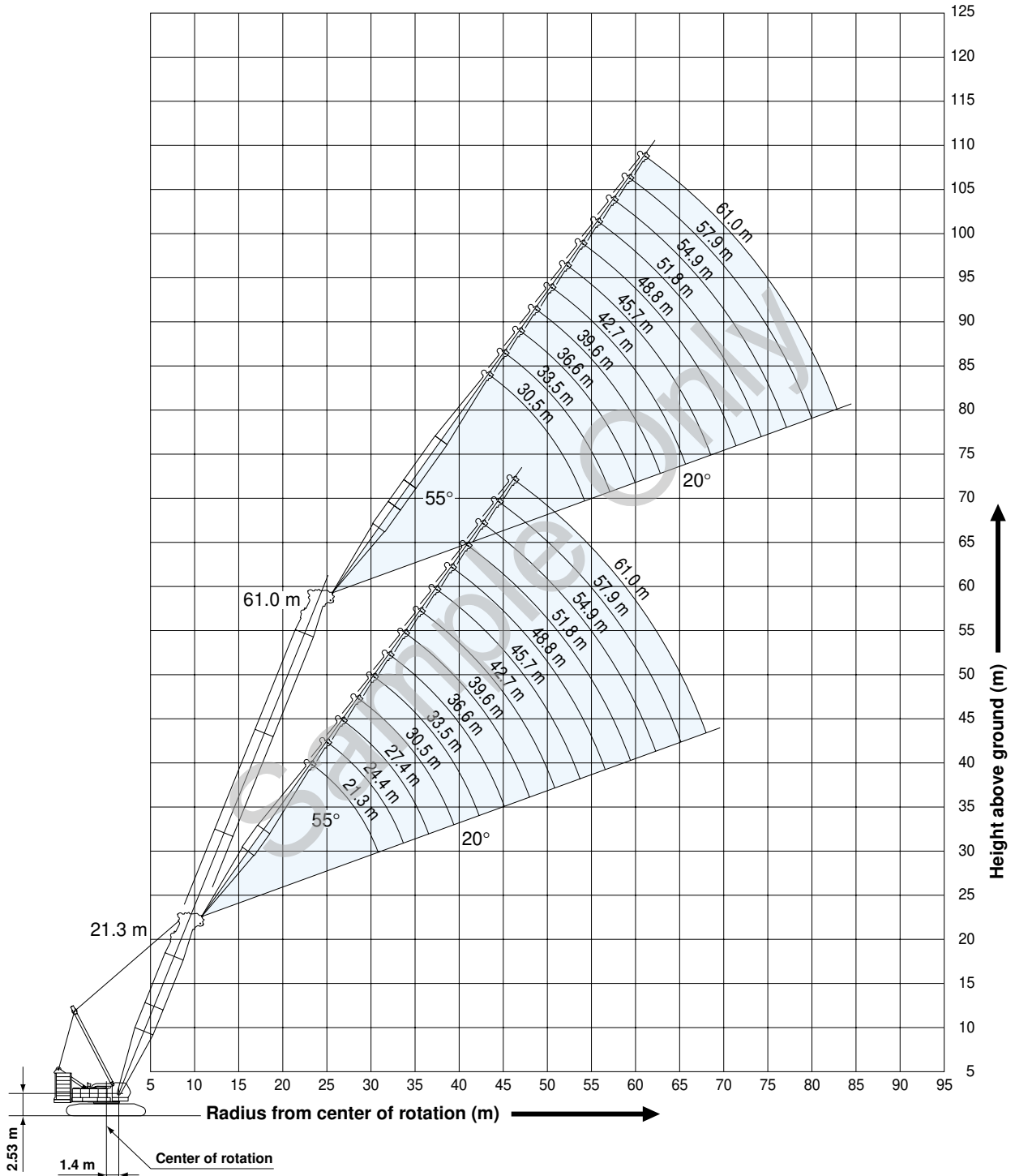
**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be

- detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Luffing boom hoist reeving is 16 part line.
10. Luffing jib hoist reeving is 10 part line.

# HYDRAULIC CRAWLER CRANE CKE2500

**Boom Angle: 68°**



11. Gantry must be in raised position for all conditions.
12. Boom and jib backstops are required for all boom and jib combinations.
13. Ratings shown in  are determined by the strength of the boom or other structural component.
14. The boom should be erected over the front of crawlers, not laterally.
15. When erecting or lowering the boom length of 54.9 m or over, the pillow plate for erection must be placed at the end of crawlers.
16. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.

17. All luffing jib ratings and luffing boom ratings with luffing jib shown are calculated in the condition equipped with the auxiliary sheave frame.
18. Luffing jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from luffing jib ratings shown.
19. Luffing boom ratings with luffing jib: Deduct weight of main hook block, slings and all other load handling accessories from luffing boom ratings with luffing jib shown.



# Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

21.3 m Boom Length	21.3																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
9.8	80.0																9.8	
10.0	79.3																10.0	
12.0	72.2				70.0												12.0	
14.0	65.1	65.7			64.7				54.0								14.0	
16.0	58.0	58.7			58.6	58.6			51.9				39.5				16.0	
18.0	50.9	54.2			52.9	53.5			49.2	52.5			38.7				18.0	
20.0	43.8	47.6			47.2	47.5			46.5	47.3			37.6	38.7			20.0	
22.0	36.7	42.1			41.5	42.0			42.0	41.9			36.3	38.1			22.0	
24.0	27.9	37.8	35.6		36.9	37.7			37.4	37.5			34.8	36.5			24.0	
26.0			32.2		31.7	34.1			33.6	34.0			33.1	33.8			26.0	
28.0			29.4	28.8	26.6	31.1	29.1		30.4	31.0			31.0	30.8			28.0	
30.0			27.0	26.5		27.8	26.7	32.0m/24.2	27.3	28.4	32.0 m/24.4	36.0 m/20.7	28.2	28.3			30.0	
34.0				32.0 m/24.4			22.8	22.4	20.4	24.3	22.6	19.3	23.8	24.2	36.0 m/21.0		34.0	
38.0								36.0 m/21.3	19.5		36.0 m/21.5	19.7	17.0	18.9	21.1	19.6	40.0 m/17.9	38.0
42.0												17.4	44.0 m/16.0	40.0 m/16.4	17.2	17.2	16.8	42.0
46.0																15.4	15.0	46.0
50.0																48.0 m/14.5	13.4	50.0
Reeves		6				6				4				3				Reeves

Working Radius (m)	21.3																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
16.0	29.4																16.0	
18.0	28.7				26.6												18.0	
20.0	28.1				26.0								18.4				20.0	
22.0	27.5	28.1			24.9								18.3				22.0	
24.0	27.0	27.5			23.8	24.3							17.6				24.0	
26.0	26.5	27.0			22.7	23.2							16.7				26.0	
28.0	25.9	26.6			21.6	22.1							15.8	16.4			28.0	
30.0	24.7	25.9			20.4	21.1							15.0	15.6			30.0	
34.0	22.4	23.5			18.2	18.9							13.6	14.0			34.0	
38.0	20.3	20.9	19.4		16.3	17.0							12.3	12.7			38.0	
42.0	16.9	18.4	17.0		14.3	15.0	16.8						11.2	11.6			42.0	
46.0	13.3	15.8	15.1	44.0 m/15.6	12.5	13.2	14.9	48.0 m/13.7	11.2	11.6	12.8		10.3	10.6	48.0 m/11.2		46.0	
50.0		48.0 m/14.0	13.6	14.8	10.7	11.5	13.3	12.9	10.2	10.6	11.7	52.0 m/11.6	9.4	9.7	10.7		50.0	
54.0			12.3	13.2	52.0 m/9.7	9.7	11.9	11.7	9.3	9.7	10.8	11.1	8.6	9.0	9.9	10.1	54.0	
58.0				12.0			10.3	10.6	8.2	8.9	9.9	10.2	7.9	8.2	9.1	9.4	58.0	
62.0				56.0 m/11.4			60.0 m/9.5	9.3			60.0 m/8.2	9.1	9.4	7.0	7.5	8.4	8.7	62.0
66.0												8.0	8.6		64.0 m/7.0	7.8	8.0	66.0
70.0															68.0 m/7.5	7.4		70.0
Reeves		3				2				2				2				Reeves

27.4 m Boom Length	27.4																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
10.0	73.4																10.0	
12.0	67.6				67.5												12.0	
14.0	61.7	65.4			62.4					54.0							14.0	
16.0	55.9	58.4			57.3	58.3				52.1				39.5			16.0	
18.0	50.1	53.9			52.2	53.2				49.4	52.2			38.6			18.0	
20.0	44.2	47.3			47.1	47.2				46.8	47.0			37.5			20.0	
22.0	38.4	41.9			42.0	41.7				42.6	41.6			36.3	38.3		22.0	
24.0	29.7	37.5			37.2	37.4				37.8	37.3			34.8	37.0		24.0	
26.0		33.5	31.4		32.8	33.8				33.9	33.7			33.2	33.6		26.0	
28.0			28.6		27.7	30.8				30.6	30.7			31.3	30.6		28.0	
30.0			26.2	25.5	22.3	28.3	25.9			27.8	28.2			28.5	28.1		30.0	
34.0			32.0 m/24.2	21.8		32.0 m/25.1	22.1	21.5	21.2	24.1	21.9			23.9	24.0		34.0	
38.0							19.2	18.7	36.0 m/17.6	19.7	19.0	18.5		19.5	20.9	18.9	38.0	
42.0								40.0 m/17.6				16.8	16.3	40.0 m/17.1	18.4	16.7	16.1	42.0
46.0												44.0 m/15.8	14.5		44.0 m/15.9	14.8	14.3	46.0
50.0																13.3	12.8	50.0
54.0																	52.0 m/12.2	54.0
Reeves		6				5				4				3				Reeves

Note: Ratings according to EN13000.

Ratings shown in   are determined by the strength of the boom or other structural components. Refer to notes P25 and P26.

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

45.7 m Boom Length	45.7																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle
Working Radius (m)	18.0	28.1																18.0
	20.0	27.8			22.4				18.3									20.0
	22.0	27.5			22.1				18.0				16.3					22.0
	24.0	27.1			21.8				17.7				16.1					24.0
	26.0	26.6	27.6		21.5				17.4				15.9					26.0
	28.0	26.0	27.1		20.6	20.8			17.1				15.4					28.0
	30.0	24.7	26.6		19.6	19.8			16.2	17.0			14.6	15.3				30.0
	34.0	22.5	23.0		17.6	17.9			14.6	15.3			13.2	13.8				34.0
	38.0	20.4	20.0		15.8	16.1			13.2	13.8			12.0	12.5				38.0
	42.0	18.0	17.6		14.0	14.5			12.1	12.5			10.9	11.4				42.0
	46.0	14.7	15.6	48.0 m/11.9	12.4	12.9			11.0	11.4			10.0	10.4				46.0
	50.0	48.0 m/12.8	14.0	11.3	10.8	11.4	52.0 m/10.4		10.1	10.5			9.2	9.5				50.0
	54.0		52.0 m/13.3	10.1	9.3	9.2	10.0	9.8	9.3	9.7	9.6		8.5	8.8	56.0 m/8.9			54.0
	58.0			9.2	8.4		8.5	8.9	8.1	8.4	8.8	8.6	7.5	8.1	8.5			58.0
	62.0			8.3	7.7			8.0	7.3	60.0 m/7.7	7.7	7.8	7.0	5.6	7.5	7.7	64.0 m/6.4	62.0
	66.0			64.0 m/8.0	7.0			7.3	6.6		64.0 m/7.0	7.1	6.3		6.6	6.9	6.1	66.0
	70.0							6.6	5.9			6.4	5.6			6.2	5.5	70.0
	74.0								72.0 m/5.6			5.8	5.1			5.6	4.9	74.0
	78.0												4.6			4.8	4.4	78.0
	82.0																4.0	82.0
Reeves			3				2				2			2				Reeves

51.8 m Boom Length	51.8																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle
Working Radius (m)	12.0	54.0			40.5													12.0
	14.0	52.4			40.5				40.5									14.0
	16.0	47.1			40.5				40.5				32.7					16.0
	18.0	42.6	51.8		40.5				40.5				32.3					18.0
	20.0	38.8	45.8		39.1	40.5			38.7				31.9					20.0
	22.0	35.5	40.6		35.8	40.3			35.6	39.8			31.5					22.0
	24.0	32.5	36.3		33.0	36.1			32.9	35.9			31.1	32.7				24.0
	26.0		32.9		30.5	32.6			30.6	32.5			30.2	32.2				26.0
	28.0		29.9		28.3	29.7			28.4	29.6			28.1	29.3				28.0
	30.0				25.5	27.2			26.5	27.1			26.3	26.9				30.0
	34.0					23.3			23.2	23.2			23.2	23.0				34.0
	38.0					16.5			40.0 m/15.1	36.0 m/19.9	20.2		20.6	19.9				38.0
	42.0					14.5	13.6			40.0 m/18.9	13.9		16.1	17.5				42.0
	46.0						12.0				12.3			15.6	12.1			46.0
	50.0								48.0 m/11.9	10.4			11.0	10.2			10.8	50.0
	54.0									52.0 m/9.9			9.9	9.2			9.7	54.0
	58.0													8.3			8.8	58.0
	62.0																60.0 m/6.4	62.0
	66.0																64.0 m/6.8	66.0
Reeves			4				3				3			3				Reeves

45.7 m Boom Length	51.8																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle
Working Radius (m)	18.0	26.2																18.0
	20.0	25.9			21.2													20.0
	22.0	25.7			20.9								17.3					22.0
	24.0	25.4			20.6								17.0					24.0
	26.0	25.1	26.0		20.3								16.7					26.0
	28.0	24.8	25.7		20.0	20.5							16.4					28.0
	30.0	24.5	25.4		19.4	19.5							16.1	16.9				30.0
	34.0	22.5	22.7		17.4	17.7							14.5	15.2			32.0 m/14.5	34.0
	38.0	20.5	19.7		15.6	15.9							13.1	13.7				38.0
	42.0	18.0	17.3		13.9	14.3							12.0	12.4				42.0
	46.0	14.9	15.4		12.3	12.7							11.0	11.4				46.0
	50.0	48.0 m/13.0	13.8	10.6	10.7	11.3							10.1	10.4				50.0
	54.0		52.0 m/13.1	9.5	9.2	9.9	9.2						9.3	9.6				54.0
	58.0			8.5	7.6		8.5	8.2					7.3	8.7	8.0			58.0
	62.0			7.8	6.8			7.4	6.4	60.0 m/6.4	7.6	7.1		6.3	8.1	7.8		62.0
	66.0			7.1	6.1			6.7	5.8		64.0 m/7.0	6.4	5.4		5.7	6.2	68.0 m/4.9	66.0
	70.0				5.6			6.1	5.2			5.8	4.8			5.6	4.7	70.0
	74.0							72.0 m/5.8	4.6			5.2	4.3			5.0	4.2	74.0
	78.0								76.0 m/4.4			4.7	3.9			4.5	3.7	78.0
	82.0															80.0 m/4.2	3.3	82.0
	86.0																84.0 m/3.1	86.0
Reeves			2				2				2			2				Reeves

Note: Ratings according to EN13000.

Ratings shown in   are determined by the strength of the boom or other structural components.

Refer to notes P25 and P26.