

KOBELCO

7300

Hydraulic Crawler Crane

Specifications

Crawler Crane

Max. Lifting Capacity: 300 metric ton x 5.0 m

Fixed Jib

Max. Lifting Capacity: 25 metric ton x 34.0 m

Luffing Jib

Max. Lifting Capacity: 80 metric ton x 14.0 m

CONFIGURATION & STYLE OF ATTACHMENT

CRAWLER CRANE

FIXED JIB

LUFFING JIB



STYLE	Crawler Crane				Fixed Jib		Luffing Jib
	Heavy duty boom	Light duty boom		Boom for luffing jib			
Counter Weight	A	A	B	A	A	B	A
SPECIFICATION							
Max. lifting capacity	300 ton x 5.0 m	120 ton x 10.0 m	120 ton x 10.0 m	180 ton x 8.0 m	25 ton x 34.0 m	25 ton x 30.0 m	80 ton x 14.0 m
Max. total length (Boom + Jib)	42.67 m	97.54 m	91.44 m	67.06 m	85.34 m +36.58m	79.25m +36.58m	60.96 m +54.86 m
COUNTER WEIGHT							
Std. Counter Weight (75.5 metric ton)	○	○	○	○	○	○	○
Additional counterweight (15.5 metric ton)	○	○	—	○	○	—	○
Carbody weight (22.0 Metric ton)	○	○	—	○	○	—	○
BASIC BOOM							
12.19m (40') lower boom and mast	○	○	○	○	○	○	○
6.10m (20') heavy duty upper boom	○	—	—	—	—	—	—
9.14m (30') light duty upper boom	—	○	○	—	○	○	—
9.14m (30') upper boom for luffing jib	—	—	—	○	—	—	○
BOOM INSERT							
3.05m (10') insert	—	1	1	1	1	1	1
6.10m (20') insert	2	1	—	1	1	1	—
12.19m (40') insert	1	3	3	3	3	3	3
6.10m (20') insert for light duty boom only	—	1	1	—	1	1	—
12.19m (40') insert for light duty boom only	—	2	2	—	1	1	—
FIXED JIB							
12.19m (10') basic Jib	—	—	—	—	1	1	—
6.10m (20') insert jib	—	—	—	—	1	1	—
9.14m (30') insert jib	—	—	—	—	2	2	—
LUFFING JIB							
24.38m (80') basic jib	—	—	—	—	—	—	1
3.05m (10') insert jib	—	—	—	—	—	—	1
9.14m (30') insert jib	—	—	—	—	—	—	3

Note: number of Boom and Jib above shown means the numbers for the maximum length respectively.

18. Boom must be erected over front end of crawlers in principle.
In case of the following type, idlers must be blocked.

Counterweight	Type A	Type B
Standard (75.5 metric ton)	-	Available
Standard + Additional weight (91.0 metric ton)	Available	-
Carboby weight (22.0 metric ton)	Available	-

*Additional counterweight and carbody weight must be used simultaneously.

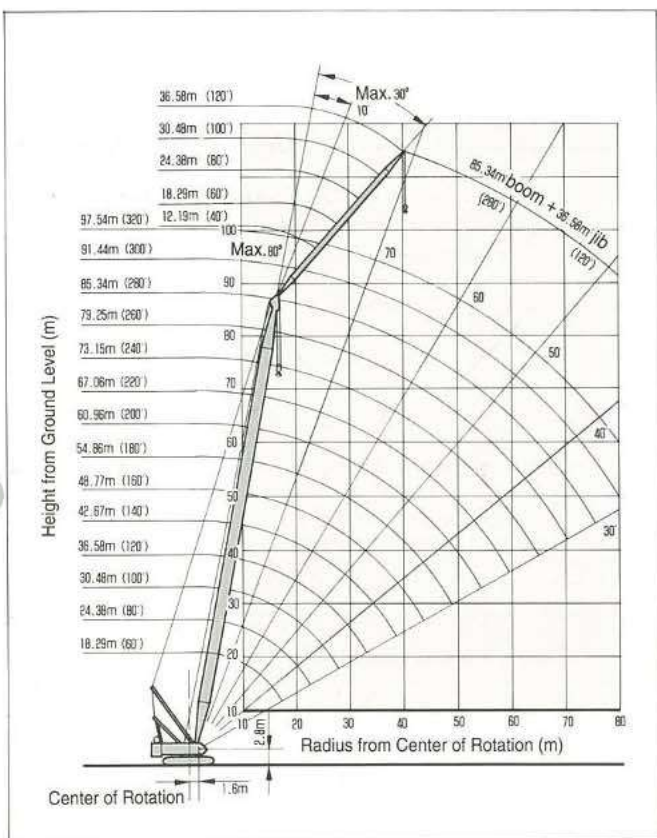
*Type B is not available for the crane & luffing jib when upper boom is in use for the heavy duty boom & luffing jib.

19. Rating is not shown for the application of jib at 10 degree of offset angle, boom for luffing jib, Type B weight.

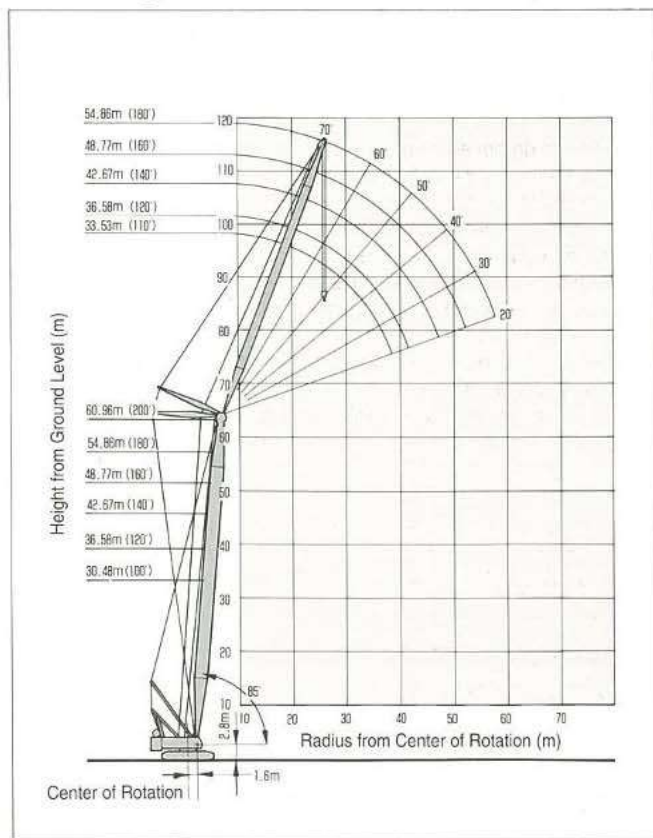
Attachment & Counterweight	Type A	Type B
Light duty boom	97.54 m (320')	91.4 m (300')
Boom + Jib	85.34 m (280') + 12.19 m (40') to 36.58 m (120')	79.25 m (260') + 36.58 m (120') 73.15 m (240') to 30.48 m (100')

WORKING RANGES

- **Crawler Crane**



- **Luffing Jib**



RATING CHART FOR CRAWLER CRANE

HEAVY-DUTY MAIN BOOM

Heavy duty upper boom/ with type A counterweight

Boom length m(ft) Working radius (m)	18.29 (60)	24.38 (80)	30.48 (100)	36.58 (120)	42.67 (140)
5	300.0				
6	251.7				
7	213.5	216.4			
8	181.4	190.0	180.0		
9	153.6	162.1	162.1	160.0	
10	132.6	140.0	140.0	140.0	140.0
12	102.1	108.9	108.9	108.9	108.9
14	81.6	87.9	87.9	87.9	87.9
16	62.5	73.0	73.0	73.0	72.9
18		61.6	61.6	61.6	61.5
20		52.5	52.5	52.5	52.5
22		45.0	45.0	45.0	45.0
24			41.4	41.0	40.6
26			36.7	36.6	36.1
28			32.2	32.2	32.4
30				29.8	29.2
34					24.0
38					20.4

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

Notes :

- Working radius is the horizontal distance from the center of rotation through the center of gravity of load.
- Ratings do not exceed 78% of tipping load on the hard horizontal ground and includes weight of hook block, slings and all other load handling accessories from main boom or jib rating shown.
- Ratings shown are based on freely suspended load and make no allowance for such factors as wind effect on lifted load, out-of-level ground conditions, operating speeds or any other condition that could be detrimental to the safe operation of this equipment.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speed accordingly.
- No operation is possible in the range indicated by blank spaces in the chart.
- The actual hoistable loads using main boom must be calculated by deducting the weight of main hook, slings and all other load handling accessories etc. from the ratings shown.
- The actual hoistable loads using jib must be calculated by deducting the weight of jib hook, slings and all other loads handling accessories etc. from the rating shown.
- Jib will be installed on the light duty boom of the 48.77 m (160') to 85.34 m (280') with type A counterweight, and 48.77 m (160') to 79.25 m (260') light duty boom with type B counterweight.
- Configurations of main Boom/Jib inserts and guy cables installations must be arranged as per the instruction of the owner and operator's manual, to be provided with machine.
- Hook block weight and capacity (metric ton).

Capacity of hook	300 ton	180 ton	80 ton	25 ton	12.5 ton (ball -hook)
Weight	5.3	3.0	2.1	1.2	0.55

10. Max. hoisting load

No. of Parts of Line	1	2	3	4	5	6	7	8	9	10
Max. Load (Metric ton)	12.5	25.0	37.5	50.0	62.5	75.0	87.0	98.0	109.0	120.0
No. of Parts of Line	11	12	13	14	16	18	20	22	24	28
Max. Load (Metric ton)	130.0	140.0	150.0	160.0	180.0	200.0	215.0	225.0	250.0	300.0

- Auxiliary sheave will be installed with 30.48 m (100') to 97.54 m (320') length of light duty boom and 24.38 m (80') to 67.06 m (220') length of boom for luffing jib.
- Rating of aux. sheaves is the figure after the weight of aux. sheave (700 kg for light duty boom, 800 kg for boom for luffing jib) and main hook deducted from the rating of boom, but shall not exceed more than 12.5 metric ton.
- Actual hoistable loads using aux. sheave must be calculated by deducting 12.5 metric ton ball-hook, slings and other loads handling accessories from the rating shown.
- When boom is equipped with aux. sheave, main hook rating shall be determined by deducting the weight of the aux. sheave from the rating of the main hook without aux. sheave.
- Actual hoistable load with main boom being equipped with aux. sheave shall be determined by deducting the weight of hook, slings and other handling rope etc., from the main boom rating with aux. sheave.
- Maximum working radius with jib or aux. sheave shall not exceed the maximum working radius of the main boom.
- Type of counterweight

RATING CHART FOR LUFFING JIB

36.58 m (120') boom with type A counterweight

Unit : metric ton

Boom Length m(ft)		36.58 (120)																	
Jib Length m(ft)		27.46 (90)			30.48 (100)			33.53 (110)			36.58 (120)			39.62 (130)			42.67 (140)		
Working radius (m)	Boom angle	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°
14																			
16		71.3			69.6														
18		61.5			61.4			61.0			56.8								
20		53.6			53.5			53.4			53.4			46.5			42.4		
22		46.9			46.9			46.9			46.9			44.6			40.6		
24		41.2			41.2			41.2			41.2			41.2			39.0		
26		36.6	33.7		36.6			36.6			36.6			36.6			36.6		
28		32.7	30.6		32.7	30.5		32.7			32.7			32.7			32.7		
30		29.5	28.1		29.5	27.9		29.5	27.8		29.5	27.7		29.5			29.5		
34			24.0			23.8		25.0	23.6		25.0	23.6		25.0	23.4		25.0	23.5	
38				17.8		20.7	17.7		20.5		21.3	20.4		21.3	20.3		21.3	20.3	
42				15.6			15.5		18.0	15.3		17.9	15.2	18.7	17.8		18.6	17.8	
46							13.7			13.5			13.4		15.8	23.3		15.8	13.3
50													12.0			11.8		14.2	11.8
54																10.6			10.6
58																			
62																			
66																			
70																			

Boom Length m(ft)		36.58 (120)											
Jib Length m(ft)		45.72 (150)			48.77 (160)			51.82 (170)			54.86 (180)		
Working radius (m)	Boom angle	85°	75°	56°	85°	75°	65°	85°	75°	65°	85°	75°	65°
14													
16													
18													
20													
22		37.3			33.2								
24		35.7			31.9			28.4			25.8		
26		34.2			30.7			27.3			24.7		
28		32.7			20.5			26.2			23.7		
30		29.5			28.3			25.1			22.7		
34		25.0			25.0			23.0			20.7		
38		21.3	20.1		21.3	19.9		21.2	20.0		18.9		
42		18.4	17.6		18.3	17.4		18.3	17.5		17.2	17.2	
46		15.9	15.6		15.9	15.5		15.9	15.5		15.7	15.2	
50			13.9	11.5	13.8	13.8	11.4	13.8	13.8		13.8	13.5	
54			12.5	10.3		12.4	10.2		12.4	10.2	12.1	12.1	9.9
58				9.3			9.2		11.2	9.1		10.9	8.9
62							8.3			8.2		9.9	7.9
66										7.4			7.0
70													

48.77 m (160') boom with type A counterweight

Unit : metric ton

Boom Length m(ft)		48.77 (160)																											
Jib Length m(ft)		30.48 (100)			33.53 (110)			36.58 (120)			39.62 (130)			42.67 (140)			45.72 (150)			48.77 (160)			51.82 (170)			54.86 (180)			
Working radius (m)	Boom angle	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	
14																													
16																													
18		59.6			59.5																								
20		52.5			52.3			52.1			46.5																		
22		46.5			46.3			46.1			44.6			40.6			37.3												
24		41.2			41.2			41.2			41.1			39.0			35.7			31.9			28.4						
26		36.6			36.6			36.6			36.6			36.6			34.2			30.7			27.3			24.7			
28		32.7			32.7			32.7			32.7			32.7			32.7			29.5			26.2			23.7			
30		29.5	25.6		29.5			29.5			29.5			29.5			29.5			28.3			25.1			22.7			
34		25.5	21.8		25.0	21.6		25.0	21.3		25.0			25.0			25.0			25.0			23.0			20.7			
38			18.9			18.7		21.3	18.4		21.3	18.2		21.3	18.2		21.3	18.1		21.3			21.2			18.9			
42			16.5			16.4			16.1		18.7	15.9		18.6	15.9		18.4	15.8		18.3	15.6		18.3	15.6		17.2			
46				11.2		14.5	11.0		14.2			14.1		16.6	14.1		15.9	13.9		15.9	13.7		15.9	13.7		15.6	13.5		
50				9.9			9.6			9.2		12.6	8.9		12.6			12.4		13.8	12.2		13.8	12.2		13.8	12.0		
54							8.5			8.0			7.8		11.3	7.8		11.1	7.4		10.9		12.6	10.9		12.1	10.7		
58												6.8			6.8			6.5		9.8	6.2		9.8	6.2		9.6			
62															6.1			5.6			5.4		8.9	5.4		8.7	5.0		
66																													
70																													

60.96 m (200') boom with type A counterweight

Unit : metric ton

Boom Length m(ft)		60.96 (200)																										
Jib Length m(ft)	33.53 (110)			36.58 (120)			39.62 (130)			42.67 (140)			45.72 (150)			48.77 (160)			51.82 (170)			54.86 (180)						
Boom angle Working radius (m)	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°				
14																												
16																												
18																												
20	50.4			50.2																								
22	45.1			44.9			44.6			40.6																		
24	40.4			40.1			40.1			39.0			35.7			31.9												
26	36.5			36.2			36.2			36.2			34.2			30.7			27.3									
28	32.7			32.7			32.7			32.7			32.7			29.5			26.2			23.7						
30	29.5			29.5			29.5			29.5			29.5			28.3			25.1			22.7						
34	25.0			25.0			25.0			25.0			25.0			25.0			23.0			20.7						
38	22.5	16.5		21.3	16.2		21.3			21.3			21.3			21.3			21.2			18.9						
42		14.4			14.1		18.7	14.1		18.6	14.1		18.4	13.8		18.3			18.3			17.2						
46		12.7			12.4			12.4		16.6	12.4		15.9	12.1		15.9	11.9		15.6	11.9		15.6	11.7					
50					11.0			11.0			11.0		14.2	10.7		13.8	10.5		13.8	10.5		13.8	10.3					
54							10.0			9.8			9.5			9.3			12.3	9.3		12.1	9.0					
58													8.4			8.2			8.2			10.6	7.9					
62																7.2			7.2			6.9						
66																			6.5			6.1						
70																												

NOTES FOR LUFFING JIB:

1. Operating radius is the horizontal distance from the centerline of rotation through the center of gravity of the load.
2. Rating do not exceed 78% tipping load on the hard horizontal ground and includes weight of hook block, slings and all other load handling accessories.
3. Rating shown are based on freely suspended loads and make no allowance for such as factors as wind effect of lifted load, out-of-level ground conditions, operating speeds or any other condition that could detrimental to the safe operation of this equipment.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speed accordingly.
4. No operation is possible in the range indicated by blank spaces in the chart.
5. The actual hoistable loads using main boom must be calculated by deducting the weight of main hook, slings and all other load handling accessories etc. from the ratings shown.
6. Configuration of main boom and jib.

Jib length m(ft) Boom length m(ft)	24.38 (80)	27.43 (90)	30.48 (100)	33.53 (110)	36.58 (120)	39.62 (130)	42.67 (140)	45.72 (150)	48.77 (160)	51.82 (170)	54.86 (180)	Boom angle
30.48 (100)	O	O	O	O	O	O	O	O	O	O	O	65° ~ 85°
36.58 (120)	—	O	O	O	O	O	O	O	O	O	O	65° ~ 85°
42.67 (140)	—	—	O	O	O	O	O	O	O	O	O	65° ~ 85°
48.77 (160)	—	—	O	O	O	O	O	O	O	O	O	65° ~ 85°
54.86 (180)	—	—	O	O	O	O	O	O*	O*	O*	O*	65° ~ 85°, * 75° ~ 85°
60.96 (200)	—	—	—	O	O	O	O	O	O	O	O	75° ~ 85°

7. In case of jib operation, jib must be erected between 20° to 70° at the fixed angle at 85°, 75° or 65°.
8. In case of the main boom operation with jib, jib offset angle must be fixed at 15°, 25° or 35° and main boom shall be erected between 30° to 80°.
9. Configurations of main boom/jib inserts and guy cables installations must be arranged as per the instruction of the 'Owner and Operator's Manual', thbe provided with machine.
10. Hook block weight and capacity (metric ton)
11. Max. hoisting load

Capacity	80 ton	25 ton	12.5 ton (Ball Hook)
Weight	2.1	1.2	0.55

No. of Parts of Line	1	2	3	4	5	6	7
Max. loads (Metric ton)	12.5	25.0	37.5	50.0	62.5	75.0	80.5

12. Auxiliary sheave can be equipped with 30.48 m (100') + 24.38 m (80') jib to 60.96 (200') boom + 54.86 m (180').
13. Rating of auxiliary sheave shall be determined by deducting the weight of auxiliary sheave (300 kg) and jib hook from the rating of the luffing jib, but subject to not being exceeded max. 12.5 metric ton.
14. Actual hoistable loads using auxiliary sheave must calculated by deducting 12.5 metric ton ball-hook, slings and other loads handling accessories from the rating.
15. rating of the luffing jib with auxiliary sheave shall be determined by deduction the weight of the aux. sheave from the rating of the luffing jib without aux. sheave. In case the operation will be done with 12.5 metric ton ball-hook, weight of ball-hook (550 kg) shall further deducted.
16. Actual hoistable load with luffing jib with auxiliary sheave shall be determined by deducting thr weight of hook, slings and other handling rope etc., from the luffing jib rating with aux. shieve.
17. Maximum working radius with auxiliary sheave shall not be exceeded the maximum radius of the luffing jib.
18. Boom must be erected over front of crawlers in principle.
In the case boom length exceeds over 54.86 m (180'), idlers must be blocked.
19. Counterweight shall be Type A.
20. Boom, 30.48m(100') boom, 42.67m (140') boom, 54.86 m (180') boom and boom with luffing jib is not shown in this chart.