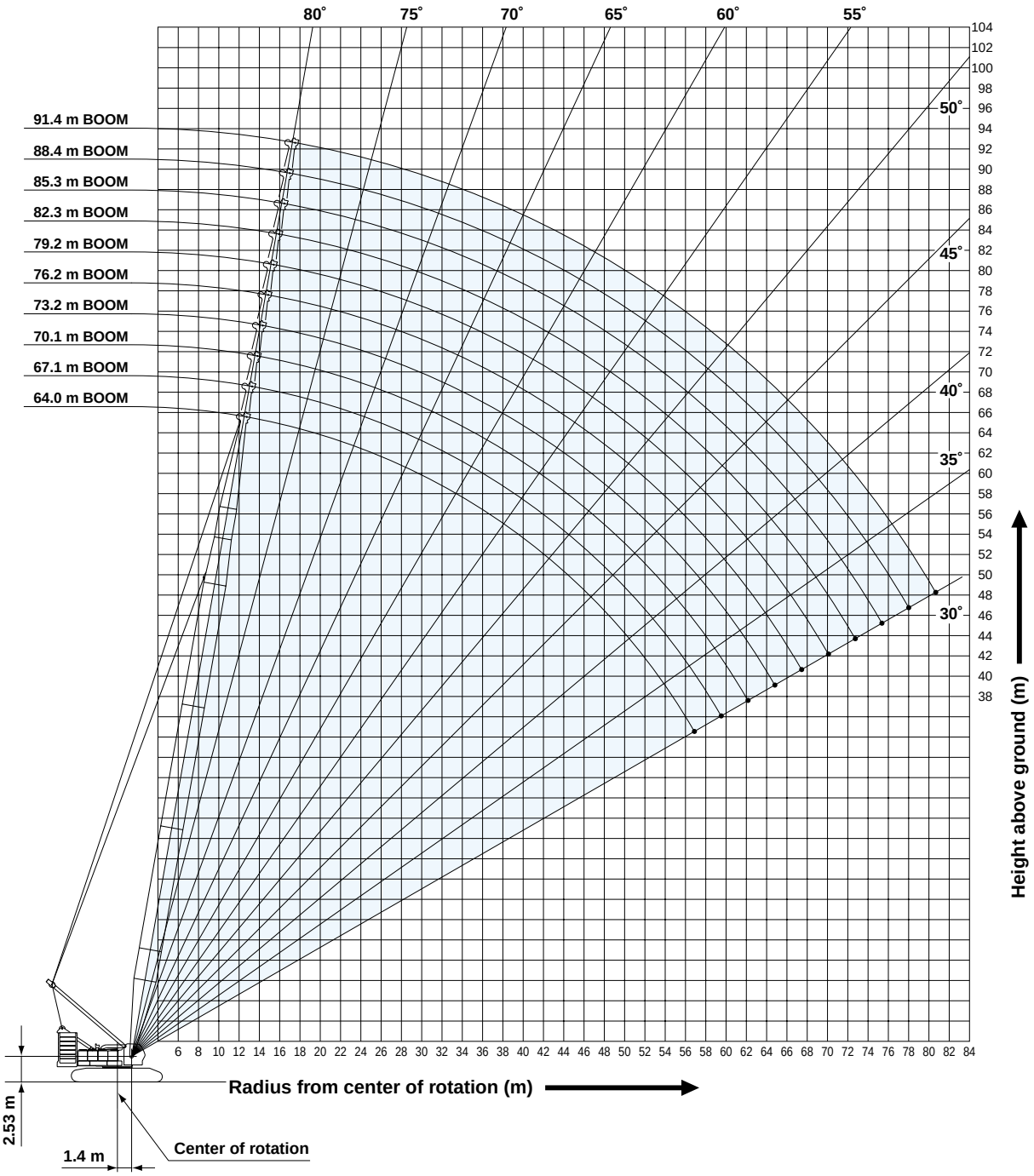
STERLING CRANE

LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CKE2500-II - 275 TON CAPACITY

Long Boom Working Ranges



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 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. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Long boom ratings: Deduct weight of hook block, slings, and all other load handling accessories from long boom ratings shown.
16. Auxiliary sheave ratings for long boom: Deduct weight of hook block, slings, and all other load handling accessories from auxiliary sheave ratings for long boom shown.
17. Long boom lengths for auxiliary sheave mounting are 64.0 m to 91.4 m.

Long Boom Lifting Capacity

Unit: metric ton

Counterweight: 90.0 t,
Carbody weight: 24.0 t

Working radius (m) \ Boom length (m)	64.0	67.1	70.1	73.2	76.2	79.2	82.3	Boom length (m) \ Working radius (m)
12.0	12.8 m/47.1	13.3 m/46.1	13.8 m/45.0					**12.0**
14.0	45.0	44.9	44.8	14.3 m/44.2	14.9 m/41.1	15.4 m/36.2	15.9 m/32.3	**14.0**
16.0	42.0	41.9	41.8	41.7	39.6	35.5	32.2	**16.0**
18.0	39.4	39.3	39.2	39.1	37.2	33.2	30.1	**18.0**
20.0	37.2	37.1	37.0	36.9	35.1	31.3	28.3	**20.0**
22.0	35.2	35.1	35.0	34.9	33.3	29.6	26.7	**22.0**
24.0	33.4	33.3	33.2	33.1	31.7	28.0	25.2	**24.0**
26.0	31.5	31.3	31.2	30.9	30.2	26.7	24.0	**26.0**
28.0	28.5	28.3	28.1	27.9	27.8	25.5	22.8	**28.0**
30.0	25.9	25.7	25.6	25.4	25.3	24.4	21.8	**30.0**
32.0	23.7	23.5	23.4	23.1	23.0	22.9	20.9	**32.0**
34.0	21.8	21.6	21.5	21.2	21.1	21.0	20.1	**34.0**
36.0	20.1	19.9	19.8	19.5	19.4	19.3	19.2	**36.0**
38.0	18.7	18.4	18.3	18.1	18.0	17.9	17.8	**38.0**
40.0	17.3	17.1	17.0	16.7	16.6	16.5	16.4	**40.0**
42.0	16.2	15.9	15.8	15.5	15.4	15.3	15.2	**42.0**
44.0	15.1	14.8	14.7	14.5	14.4	14.3	14.2	**44.0**
46.0	14.1	13.9	13.7	13.5	13.4	13.3	13.2	**46.0**
48.0	13.3	13.0	12.9	12.6	12.5	12.4	12.3	**48.0**
50.0	12.5	12.2	12.1	11.8	11.7	11.6	11.5	**50.0**
52.0	11.7	11.5	11.3	11.1	11.0	10.9	10.8	**52.0**
54.0	11.1	10.8	10.7	10.4	10.3	10.2	10.1	**54.0**
56.0	10.4	10.2	10.0	9.8	9.7	9.6	9.5	**56.0**
58.0	56.9 m/ 10.2	9.6	9.5	9.2	9.1	9.0	8.9	**58.0**
60.0		59.6 m/ 9.2	8.9	8.7	8.6	8.5	8.4	**60.0**
62.0			8.5	8.2	8.1	8.0	7.9	**62.0**
64.0			62.2 m/ 8.4	7.7	7.6	7.5	7.4	**64.0**
66.0				64.9 m/ 7.6	7.2	7.1	7.0	**66.0**
68.0					67.5 m/ 6.9	6.8	6.7	**68.0**
70.0						6.4	6.3	**70.0**
72.0						70.2 m/ 6.3	6.0	**72.0**
74.0							72.8 m/ 5.9	**74.0**
Reeves	4	4	4	4	4	3	3	**Reeves**

Working radius (m) \ Boom length (m)	85.3	88.4	91.4	Boom length (m) \ Working radius (m)
16.0	16.5 m/27.0	17.0 m/24.9	17.5 m/21.3	**16.0**
18.0	27.0	24.0	20.9	**18.0**
20.0	25.3	22.4	19.5	**20.0**
22.0	23.9	21.1	18.3	**22.0**
24.0	22.6	19.9	17.3	**24.0**
26.0	21.4	18.9	16.3	**26.0**
28.0	20.4	18.0	15.5	**28.0**
30.0	19.5	17.1	14.8	**30.0**
32.0	18.6	16.4	14.1	**32.0**
34.0	17.9	15.7	13.6	**34.0**
36.0	17.2	15.1	13.0	**36.0**
38.0	16.6	14.6	12.6	**38.0**
40.0	16.1	14.1	12.1	**40.0**
42.0	15.1	13.6	11.7	**42.0**
44.0	14.1	13.2	11.4	**44.0**
46.0	13.1	12.8	11.0	**46.0**
48.0	12.2	12.3	10.7	**48.0**
50.0	11.4	11.3	10.5	**50.0**
52.0	10.7	10.6	10.2	**52.0**
54.0	10.0	9.9	9.8	**54.0**
56.0	9.4	9.3	9.2	**56.0**
58.0	8.8	8.7	8.6	**58.0**
60.0	8.3	8.2	8.1	**60.0**
62.0	7.8	7.7	7.6	**62.0**
64.0	7.3	7.2	7.1	**64.0**
66.0	6.9	6.8	6.7	**66.0**
68.0	6.6	6.5	6.4	**68.0**
70.0	6.2	6.1	5.9	**70.0**
72.0	5.9	5.8	5.7	**72.0**
74.0	5.6	5.5	5.4	**74.0**
76.0	75.4 m/5.4	5.3	5.1	**76.0**
78.0		4.9	4.8	**78.0**
80.0			4.5	**80.0**
82.0			80.7 m/4.4	**82.0**
84.0				**84.0**
Reeves	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 P18.

Auxiliary Sheave Lifting Capacity for Long Boom (With 35 t Main Hook)

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

Working radius (m) \ Boom length (m)	64.0	67.1	70.1	73.2	76.2	79.2	82.3	85.3	88.4	91.4	Boom length (m) \ Working radius (m)
12.0	13.5 m/13.5										**12.0**
14.0	13.5	13.5	14.5 m/13.5	15.0 m/13.5	15.6 m/13.5						**14.0**
16.0	13.5	13.5	13.5	13.5	13.5	16.1 m/13.5	16.6 m/13.5	17.2m /13.5	17.7 m/13.5		**16.0**
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.2 m/13.5	**18.0**
20.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	**20.0**
22.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	**22.0**
24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	**24.0**
26.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	**26.0**
28.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	**28.0**
30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	**30.0**
32.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.8	**32.0**
34.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.3	**34.0**
36.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	11.7	**36.0**
38.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.3	11.3	**38.0**
40.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.8	10.8	**40.0**
42.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.3	10.4	**42.0**
44.0	13.5	13.5	13.4	13.2	13.1	13.0	12.9	12.8	11.9	10.1	**44.0**
46.0	12.8	12.6	12.4	12.2	12.1	12.0	11.9	11.8	11.5	9.7	**46.0**
48.0	12.0	11.7	11.6	11.3	11.2	11.1	11.0	10.9	11.0	9.4	**48.0**
50.0	11.2	10.9	10.8	10.5	10.4	10.3	10.2	10.1	10.0	9.2	**50.0**
52.0	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3	8.9	**52.0**
54.0	9.8	9.5	9.4	9.1	9.0	8.9	8.8	8.7	8.6	8.5	**54.0**
56.0	9.1	8.9	8.7	8.5	8.4	8.3	8.2	8.1	8.0	7.9	**56.0**
58.0	8.4	8.3	8.2	7.9	7.8	7.7	7.6	7.5	7.4	7.3	**58.0**
60.0		7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.9	6.8	**60.0**
62.0		60.7 m/7.5	7.2	6.9	6.8	6.7	6.6	6.5	6.4	6.3	**62.0**
64.0			63.3 m/6.9	6.4	6.3	6.2	6.1	6.0	5.9	5.8	**64.0**
66.0				5.9	5.9	5.8	5.7	5.6	5.5	5.4	**66.0**
68.0					5.5	5.5	5.4	5.3	5.2	5.1	**68.0**
70.0					68.6 m/5.4	5.1	5.0	4.9	4.8	4.6	**70.0**
72.0						71.3 m/4.8	4.7	4.6	4.5	4.4	**72.0**
74.0							73.9 m/4.4	4.3	4.2	4.1	**74.0**
76.0								4.0	4.0	3.8	**76.0**
78.0								76.5m /3.9	3.8	3.5	**78.0**
80.0									79.1 m/3.7	3.2	**80.0**
82.0										81.8 m/2.9	**82.0**
Reeves	1	1	1	1	1	1	1	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 P18.