



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK2500-II - 250 TON CAPACITY

Rating Chart Supplemental Data

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk* in the charts.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - Boom backstops are required for all boom lengths.
 - Gantry must be fully raised position for all operations.
 - The crane must be leveled to within 1% on a firm supporting surface.
- Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
- Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- The total load that can be lifted over a jib is limited by rated jib loads.
- The total load that can be lifted over an auxiliary sheave should not exceed 29,500 lbs.
- The boom should be erected over the front of the crawlers, not laterally. When erecting and lowering the boom length of 190 ft (57.9 m) or over, the blocks for erection must be placed at the end of the crawlers.
- Least stable position is over the side.

11. Luffing boom and jib combinations.

		Jib Length (ft)										
		70	80	90	100	110	120	130	140	150	160	170
Boom Length (ft)	70	0	0	0	0	0	0	0	0	0	0	0
	80	0	0	0	0	0	0	0	0	0	0	0
	90	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0
190	0	0	0	0	0	0	0	0	0	0	0	
200	X	X	X	0	0	0	0	0	0	0	0	

0: Combination which is allowed.

X: Combination which is not allowed.

12. Maximum number of reeving parts of lines for hoist rope

(1) Luffing jib

		Jib Length (ft)										
		70	80	90	100	110	120	130	140	150	160	170
Boom Length (ft)	70	4	4	4	4	4	4*	4*	4*	2	2	2
	80	4	4	4	4	4	4*	4*	4*	2	2	2
	90	4	4	4	4	4	4*	4*	4*	2	2	2
	100	4	4	4	4	4	4*	4*	4*	2	2	2
	110	4	4	4	4	4	4*	4*	4*	2	2	2
	120	4	4	4	4	4	4*	4*	4*	2	2	2
	130	4	4	4	4	4	4*	4*	4*	2	2	2
	140	4	4	4	4	4*	4*	4*	4*	2	2	2
	150	4	4	4*	4*	4*	4*	4*	4*	2	2	2
	160	4	4*	4*	4*	4*	4*	4*	4*	2	2	2
	170	4*	4*	4*	4*	4*	4*	4*	2	2	2	2
	180	4*	4*	4*	4*	4*	4*	2	2	2	2	2
190	4*	4*	4*	4*	4*	2	2	2	2	2	2	
200	X	X	X	4*	2	2	2	2	2	2	2	

X: Combination which is not allowed.

*: In case of using rear drum, number of reeving parts line of hoist rope should be 3 parts line.

(2) Crane boom with luffing jib attached

		Jib Length (ft)										
		70	80	90	100	110	120	130	140	150	160	170
Boom Length (ft)	70	8	8	8	8	8	8	8	8	8	8	8
	80	8	8	8	8	8	8	8	8	8	8	8
	90	8	8	8	8	8	8	8	8	8	8	8
	100	8	8	8	8	8	8	8	8	8	8	8
	110	8	8	8	8	8	8	8	8	8	8	8
	120	8	8	8	8	8	8	8	8	8	8	6
	130	8	8	8	8	8	8	6	6	6	6	6
	140	8	8	8	8	8	8	6	6	6	6	6
	150	8	8	6	6	6	6	6	6	6	6	6
	160	6	6	6	6	6	6	6	6	6	6	6
	170	6	6	6	6	6	6	6	6	6	6	6
	180	6	6	6	6	6	6	6	6	6	4	4
190	6	6	6	6	6	6	6	6	6	4	4	
200	X	X	X	6	6	4	4	4	4	4	4	

X: Combination which is not allowed.

Rating Chart Supplemental Data

13. Maximum hoist load for number of reeving parts of line for hoist rope.

Main boom hoist loads

Parts of lines	1	2	(3)	4
Maximum loads (lbs)	29,500	59,000	85,500	118,000

Parts of lines	(5)	6	7	8
Maximum loads (lbs)	147,500	177,000	206,500	200,000

Jib hoist loads

Parts of lines	1	2	(3)	4
Maximum loads (lbs)	29,500	59,000	88,500	118,000

Auxiliary sheave hoist loads

Parts of lines	1
Maximum loads (lbs)	29,500

Parts of lines with parenthesis () is not recommended for lifting.

14. Lifting capacities shown apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.

15. Designed and rated to comply with ANSI Code B30.5.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.