



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK2500-II - 250 TON CAPACITY

LUFFING JIB

The Kobelco CK2500-II Crawler Crane is designed from the ground up for reliable operation, convenient maintenance and easy transport. Please consult your Kobelco distributor for additional information regarding specifications, operating parameters and maintenance requirements.

1. GENERAL DESCRIPTION

Type	Crawler mounted, fully revolving
Maximum lifting capacity with luffing jib	118,000 lbs x 45' (53.5 ton x 13.7m)
Maximum boom length	200' (61.0 m)
Maximum luffing jib length	170' (51.8 m)
Working weight	Approx. 502,600 lbs (228 ton) (Including upper and lower machine, counterweights, 70' boom + 70' jib, hook block)
Ground bearing pressure (with 70' boom + 70' jib)	Approx. 15.4 psi (106 kPa)

2. WORKING SPEED

Hoist line speed (front and rear drum)	360 ~ 10 ft/min (110 ~ 3 m/min)
Lowering line speed (front and rear drum)	360 ~ 10 ft/min (110 ~ 3 m/min)
Boom hoist line speed	144 ~ 6.6 ft/min (44 ~ 2 m/min)
Boom lowering line speed	144 ~ 6.6 ft/min (44 ~ 2 m/min)
Jib hoist line speed	130~6.6 ft/min (40~2 m/min)
Jib Lowering line speed	130~6.6 ft/min (40~2 m/min)
Swing speed	2.2 rpm (2.2 min ⁻¹)
Travel speed (High / Low)	0.69 / 0.44 mph (1.1 / 0.7 km/hour)

Line speed based on single line, no load and first layer of rope on the drum. Line speed is controllable by Dial-type Speed Control System.

3. LUFFING JIB ATTACHMENTS

3.1 Boom

The welded lattice construction uses tubular, high-tension steel chords with pin connections between sections, extendible up to 200' (61.0 m).

Basic boom length	70' (21.3 m)
Boom tip section (with pin connected boom point sheave)	3.3' (1.00 m)
Taper Boom Insert	11.7' (3.60 m)
Boom insert section	10' (3.05m) + 20' (6.10 m)
Boom base section	25' (7.62 m)
Maximum boom length	200' (61.0 m)

3.2 Boom insert

Boom insert is available to provide extension capabilities. They feature welded lattice construction with tubular, high-tension strength steel chords and pin connections.

Boom insert 10' (3.05 m), 20' (6.10 m), 40' (12.2 m)

3.3 Jib

The jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections, extendible up to 170' (51.8m).

Basic jib length	70' (21.3 m)
Jib insert	10' (3.05 m) + 20' (6.10m)
Jib tip section	21' (6.40 m)
Jib base section	19' (5.79 m)
No. of point sheaves	2
Maximum lift capacity	118,000 lbs(53.5 ton)
Maximum jib length	170' (51.8 m)
Insert jib length	10'(3.05 m), 20' (6.10 m), 40' (12.2 m)

Jib boom inserts are available to provide extension capabilities. They feature welded lattice construction with tubular, high-tension strength steel chords and pin connections.

3.4 Auxiliary sheave

One (1) sheave with rollers, required during erection of jib.

3.5 Diameter of wire ropes

Hoist rope	1" (25.4 m)
Jib hoist rope (10 parts)	7/8" (22.0 m)
Boom hoist rope (16 parts)	1-1/32" (26.0 m)
Boom suspension rope	1-5/16" (34.0 m)
Jib suspension rope	1-5/16" (34.0 m)
Strut suspension rope	1-5/16" (34.0 m)

3.6 Boom hoist reeving

Sixteen (16) parts of 1-5/32" (26.0 mm) dia. high strength wire rope.

3.7 Jib hoist reeving

Ten (10) parts of 7/8" (22.0 mm) dia. high strength wire rope.

3.8 Backstops

Required for all boom and jib length.

STERLING CRANE

4. JIB HOIST DRUM

- Jib hoist drum** (3rd drum on straight crane)
Powered by hydraulic motor through planetary reducer.
- Drum** Single drum
Grooved for 7/8" (22.0 m) dia. wire rope
- Brake** A spring-set, hydraulically released
multiple-disc brake is internally configured in the
hoist motor and is operated through a
counter-balance valve.
External ratchet for locking drum.

5. SAFETY DEVICES

- Function lock lever
- Hook over hoist shut off (Anti-two-block)
- Boom and jib over hoist limit switch
- Boom angle indicator
- Signal horn
- Boom and jib hoist drum lock
- Front and rear hoist drum lock
- Swing lock
- Swing alarm (Buzzer and lamps)
- Boom backstops
- Jib backstops
- Strut backstops
- Over load preventive device (Load Moment Indicator)

All specifications are subject to change without notice.