

Hydraulic Crawler Crane

CK1100G

Max. Lifting Capacity : 110 US Tons

Max. Crane Boom Length : 200 ft

Max. Fixed Jib Combination : 190 ft + 60 ft



CK1100G

CONTENTS

2 SPECIFICATIONS

6 G-MODE

7 LMI

8 WINCH PERFORMANCE

9 GENERAL DIMENSIONS

10 DIMENSIONS & WEIGHT

13 TRANSPORTATION PLAN

14 SELF ASSEMBLY PROCEDURE

15 COUNTERWEIGHT SELF-REMOVAL DEVICE

16 BOOM & JIB ARRANGEMENTS

17 WORKING RANGES

20 SUPPLEMENTAL DATA

21 LIFTING CAPACITY

29 CLAMSHELL DATA

32 BARGE DATA

CK1100G

SPECIFICATIONS

General Description



<i>Type</i>	Crawler mounted, Lattice boom, Hydraulic controlled
<i>Maximum lift capacity</i>	220,000 lbs (99,800 kg) @ 11' operating radius (40' boom)
<i>Basic boom length</i>	40' (12.2 m)
<i>Maximum boom length</i>	200' (61.0 m)
<i>Basic boom & jib length</i>	80' + 30' (24.4 m + 9.1 m)
<i>Maximum boom & jib length</i>	190' + 60' (57.9 m + 18.3 m)
<i>Working weight</i>	Approx. 198,500 lbs (90,020 kg)
<i>Ground bearing pressure</i>	Approx. 12.9 psi (101 kPa)
<i>Gradeability</i>	40%

Calculations to determine working weight, ground bearing pressure, and gradeability include the weight of the upper and lower works of the crane, counterweights, and carbody weights, 40' boom and hook block.

General Dimensions

<i>Height to top of gantry (lowered)</i>	10'10" (3.31 m)
<i>Width of upper machine w/operator's cab</i>	9'10" (2.99 m)*
<i>Radius of rear end (counterweights)</i>	15'5" (4.70 m)
<i>Counterweight ground clearance</i>	3'8" (1.12 m)
<i>Center of rotation to boom foot pin</i>	3'7" (1.10 m)
<i>Height from ground to boom foot pin</i>	5'10" (1.77 m)
<i>Height over gantry (raised)</i>	20'4" (6.19 m)
<i>Overall length of crawlers</i>	20'7" (6.28 m)
<i>Overall width of crawlers</i>	17'2" (5.24 m)
<i>Center to center, idler to sprocket</i>	17'10" (5.44 m)
<i>Shoe width</i>	36" (0.91 m)
<i>Ground clearance of body</i>	15" (0.39 m)

Working Speed

<i>Hoist line speed (front and rear drums)</i>	390 ~ 10 ft/min (120 ~ 3 m/min)
<i>Lowering line speed (front and rear drums)</i>	390 ~ 10 ft/min (120 ~ 3 m/min)
<i>Boom hoist line speed (front and rear drums)</i>	230 ~ 6.6 ft/min (70 ~ 2 m/min)
<i>Boom lowering line speed (front and rear drums)</i>	230 ~ 6.6 ft/min (70 ~ 2 m/min)
<i>Swing speed (max.)</i>	4.0 rpm
<i>Travel speed (high/low)</i>	1.07/0.71 mph (1.7/1.1 km/h)

Line speed based on single line, no load, and first layer of rope on the drum.

Upper Machinery

Power Plant:

<i>Diesel engine - make and model</i>	Hino J08E-UV (complies with Interim "Tier 4")
<i>No. of cylinders</i>	6
<i>Bore X stroke</i>	4-13/16" x 5-7/8" (122 mm x 150 mm)
<i>Cycles</i>	4
<i>Total displacement</i>	469 cu.in. (7.684 ℓ)
<i>Rated output SAE GROSS</i>	285 HP / 2,100 rpm (213 kW / 2,100 min ⁻¹)
<i>Maximum torque</i>	750 lbs-ft / 1,600 rpm (1,017 Nm / 1,600 min ⁻¹)
<i>Starter</i>	24 Volts / 5.0 kW
<i>Alternator</i>	24 Volts / 90 Amp
<i>Batteries</i>	Two 12 volt, 136 AH/5 HR capacity series connected.
<i>Radiator</i>	Corrugated type core, thermostatically controlled, with cleanout screen.
<i>Throttle</i>	Twist grip type hand throttle, electrically controlled, in conjunction with floor mounted pedal.
<i>Air cleaner</i>	Dry type with replaceable paper element.
<i>Fuel tank capacity</i>	106 US gal. (400 liters)
<i>Lube oil filters</i>	Full flow and by-pass type with element type.
<i>Fuel filter</i>	Replaceable paper element.



* - 10'5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.



Self Lifting Device - Standard Equipment

Counterweight and Carbody weight

Counterweight Base	1 x 18,200 (8,310 kg)
Counterweight (R)	2 x 12,700 (5,750 kg)
Counterweight (L)	2 x 12,700 (5,750 kg)
Total Counterweight	69,000 (31,310 kg)

Carbody weight	2 x 15,900 (7,200 kg)
Total Carbody weight	31,800 (14,400 kg)



Hydraulic system

Maximum pressure rating
4,626 psi (31.9MPa)

Cooling
Oil to air heat exchanger

Filtration
Full flow filters with replaceable paper elements

Reservoir capacity
116.2 US gal. (440 liters)

Hydraulic pumps:

Load hoist, boom hoist, and propel

2 piston pumps, max flow rate
67.3 US gal/min x 2 (255 ℓ/min x 2)

Swing

1 piston pump, max flow rate
46.7 US gal/min (177 ℓ/min)

Control system and auxiliary

2 Gear pumps, max flow rate
16.3 US gal/min + 10.6 US gal (61.6 ℓ/min + 40.5 ℓ/min)

Brake cooling system

2 gear pumps, max flow rate
19.4 US gal/min x 2 (73.5 ℓ/min x 2)

Gantry

This high folding type gantry is fitted with a sheave frame for boom reeving. Hydraulic lift is standard. It provides full up, full down positions with linkage.

Operators cab

Totally enclosed from weather, this full-vision cab has safety glass all around. The adjustable, high-backed seat with armrest is capable of adjustment with or without the control console. Auxiliary controls and instruments are on a side mounted console. A signal horn, windshield wipers, air conditioner/heater, and swing limiter are all standard features.

Controls

At the operator's right are console-mounted adjustable short levers for the front and rear drum and the boom hoist control. Fine inching control and free fall activation switches are built in to the levers. Beside the seat on the right are two short levers for propel control, plus individual speed dial controls for front, rear, and boom drums. At the left is the console mounted swing lever, an optional 3rd drum control, switches for the front, rear, and boom drum pawls, and the engine start/stop key. A swing brake control switch and signal horn button are on the swing lever.

Swing:

Swing unit

Hydraulic motor driving spur gears through planetary reducers to output swing pinion for 360 degree rotation.

Swing brake

Spring set hydraulically released multiple disk brake mounted on swing motor.

Swing circle

Single row ball bearing with an integral internally cut swing gear.

Swing lock

Manual, 4 position lock for transportation.



Line pull:

Max. line pull (single line) - 46,800 lbf (208 kN)

Rated line pull - 25,200 lbf (112 kN)

Lower Machinery

Crawlers:

Crawler assemblies can be hydraulically extended or retracted for wide track operation or retracted for transportation. Crawler belt tension adjusted with hydraulic jack and maintained by shims between the idler block and frame.

Crawler drive:

The independent two speed hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor driving a propel sprocket through a planetary gear box. The hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes:

Spring set, hydraulically released, multiple disk-type parking brakes are built into each propel drive.

Steering mechanism:

A hydraulic propel system provides both skid steering and counter rotating steering.

Crawler shoe:

66 shoes - 36" wide, each crawler.

Track rollers:

The track rollers are sealed for maintenance free operation.

Front drum:

Front and rear drums for load hoist powered by hydraulic variable plunger motors, driven through planetary reducers.

Negative brake

A spring-set, hydraulically released multiple disk brake is mounted on the hoist motor and operated through a counter-balance valve.

Drum lock External ratchet for locking drum

Drums:

Front drum -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 771' (235 m) working length and 1,181' (360 m) storage length.

Rear drum -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 525' (160 m) working length and 1,181' (360 m) storage length.

3rd drum (optional) -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 476' (145 m) working length and 1,099' (335 m) storage length.



Crane Attachments

Boom:

The welded lattice construction uses tubular, high-tension steel chords with pin connections between sections.

<i>Maximum boom length</i>	200' (61.0 m)
<i>Basic boom length</i>	40' (12.2 m)
<i>Boom base section</i>	19'7" (5.97 m)
<i>Boom tip section</i>	22'8" (6.91 m)

Boom insert (optional):

Optional boom inserts are available to provide extension capabilities. They are robotic welded, laser aligned, lattice constructed with tubular, high-tension steel chords and pin connections.

<i>Boom insert</i>	10' (3.1 m), 20' (6.1 m), 40' (12.2 m)
--------------------	--

Jib (optional):

Jib inserts are available to provide extension capabilities. The optional jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections.

<i>Maximum jib length</i>	60' (18.3 m)
<i>Basic jib length</i>	30' (9.1 m)
<i>Jib base section</i>	15'9" (4.8 m)
<i>Jib tip section</i>	16'5" (5.0 m)
<i>Jib insert</i>	10' (3.1 m), 20' (6.1 m)

Jib is useable on booms of 80' (24.4 m) through 190' (57.9 m)



Auxiliary sheave (optional):

Auxiliary sheave is extendible on booms of 40' (12.2 m) through 190' (57.9 m)

Boom hoist reeving:

Twelve (12) parts of 5/8" (16.0 mm) diameter high strength wire rope.

Boom backstops:

Telescopic type with spring bumper

Standard Equipment

Lights:

- Two (2) front flood lights
- One (1) cab inside light

Gauges and warning display

Gauges

- One (1) tachometer
- One (1) hour meter
- One (1) fuel gauge
- One (1) water temperature

Warning display

- Battery charge
- Engine oil pressure
- Air cleaner
- Engine oil filter
- Control main pressure
- Hydraulic oil temperature
- DPF condition indicator

Others

- Air conditioner/heater
- Drum turn indicator (front/rear)
- Foot pedal / throttle
- Electric transfer pump
- Counterweight self-removal device
- KCross Telematics
- Free fall winches

Safety Service

- Function lock lever
- Swing Limiter
- Boom over hoist limit switch
- Signal horn
- Front/rear hoist drum lock
- Swing Limiter (Buzzer, lamps, or stops)
- Overload prevention device (LMI)
- Hook over hoist shut off (Anti-two-block)
- Boom angle indicator
- Travel alarm

Safety Service (cont)

- Level indicator
- Boom hoist drum lock
- Swing locks, anti drift, and mechanical
- Boom backstops
- Boom base catwalk
- Upper machinery catwalk, handrails and ladder

Tools and Accessories

A set of tools and accessories are furnished.

Optional Equipment

- Third drum
- Hook block
- Hook ball
- Auxiliary sheave
- Fixed jib
- Boom inserts
- Carbody erection cylinder

G-Mode

The G-modes are a standard exclusive energy and fuel saving system, with up to 30% in fuel savings. The G-Mode eliminates needless operations and engine functions allowing for reduced fuel consumption by using three basic modes that are all operator selectable.

Auto Idling Stop Mode (AIS):

An Industry First

The AIS mode can conserve fuel by stopping the engine, with an operator prompt, after 10 seconds of idling time. Restarting the engine is simple by just twisting the throttle.



G-Winch Mode:

An Industry First

The G-winch mode can produce maximum winch line speed at a low engine RPM.



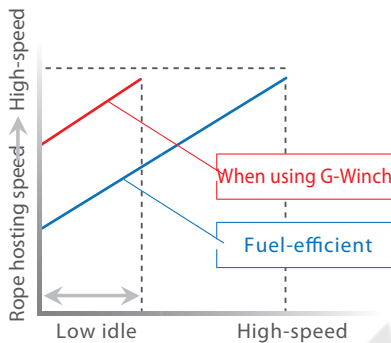
G-Engine



G-Winch



AIS



The high speed mode allows the line to be raised or lowered at maximum line speed without raising engine speed when lifting without a load.

G-Engine Mode:

An Industry First

The G-engine mode limits maximum engine speed to 1,750 RPM and controls the pumps to make engine operation in the most efficient condition.

Exhaust cleaning DPR:

The DPR (diesel particulate active reduction system) burns PM (particulate matter) collected by the DPF (diesel particulate filter) from the diesel exhaust gas, increasing the PM collection efficiency of the DPF, and recovering to purify the exhaust. This means that the exhaust gas from the diesel engine is cleaner, conforming with current EPA Interim Tier 4 regulations.



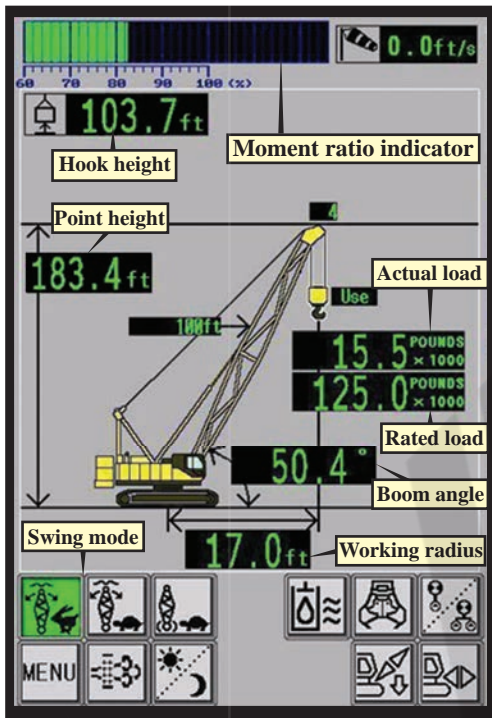
A new clean diesel system - although diesel engines consume less fuel and emit less CO₂ than gasoline engines, they also emit more harmful particulate matter and nitrogen oxide (NO_x). The "new clean energy system" engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using negative ions. This system requires the use of low sulfur diesel.

* Warning: High sulfur diesel will damage the engine.

Load Moment Indicator (LMI)

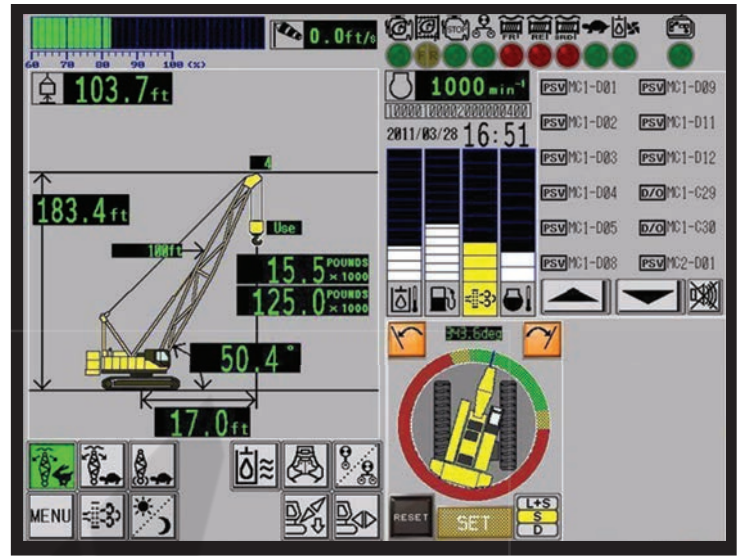
The Kobelco newly designed 12" touch panel screen with sunshade and screen protector is an industry first. This intuitive and easy to understand new touch screen monitor gives the operator a full display of essential data. Universal pictograms are used providing easy visual recognition, making this new technology easy to read and understand the information. This new monitor includes: Hook Height, Engine Speed, Display Lamp of standard functions, Gauges, Over-Swing Prevention Device, Switches, and Error Messages.

Moment Limiter (Left Side)

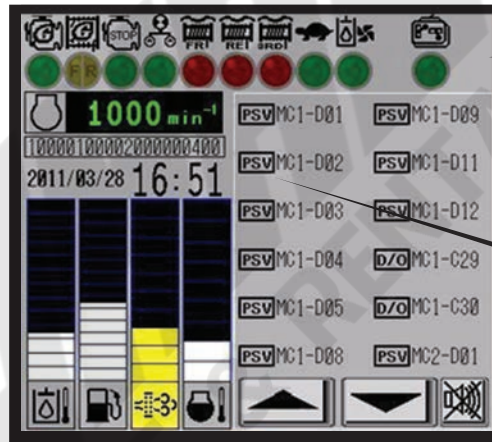


Main Menu

Crane Config.		Adjustment Mode
Angle/Radius Limiter		Service Mode
Self Check Mode		



Gauges (Right Side)



Display Lamp

Display lamp	Remote control connection
G-Engine	Oil cooler operation
G-Winch	Free fall (auxiliary)
AIS operation	Free fall (3rd)
Slow speed state	

Error Message

Touch to display details in a pop-up window.

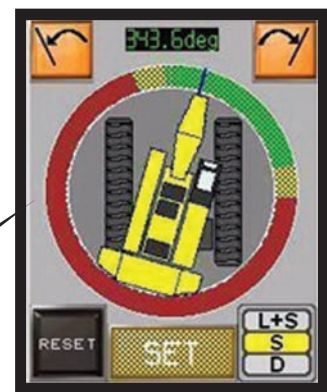
Gauges

- Hydraulic oil temperature
- Fuel gauge
- Diesel particulate filter gauge
- Coolant temperature

** Figures for the above gauges are only shown when the bar is touched.*

Over-Swing Prevention

An over-swing preventative device is standard. It limits the swing of the crane. Configuration is simple and can be done from the touch panel.



Winch Performance Data

Note:

Line speed and line pull based on Hino J08E-UV at 2,100 rpm.

Line speed and line pull based on single line.

Max. line pull is based on referential performance, not wire rope strength.

Front & Rear Drum

Wire Rope Diameter = 26 mm

Rated Line Pull = 25,200 lbf (112 kN)

Maximum Line Pull = 46,800 lbf (208 kN)

Total Storage Capacity = 1,185 ft (361.2 m)

		Line speed (ft/min)					
Layer		1	2	3	4	5	6
0		393	421	449	476	504	
5,000		393	421	449	476	504	
10,000		387	414	440	467	494	
Line Pull (lbs)	15,000	360	360	348	348	348	storage only
	20,000	270	270	261	261	261	
	25,200	214	214	199	187	173	
	30,000	166	149	140	138	136	
	35,000	120	118	114	109		
	40,000	100	95				
	Storage Capacity (ft)	139	149	159	169	179	

Third Drum (for Load hoist)

Wire Rope Diameter = 22 mm

Rated Line Pull = 17,000 lbf (78.5 kN)

Maximum Line Pull = 32,400 lbf (144 kN)

Total Storage Capacity = 1,099 ft (334.9 m)

		Line speed (ft/min)					
Layer		1	2	3	4	5	6
0		394	394	394	394	394	
5,000		394	394	394	394	394	
10,000		227	227	227	227	227	
Line Pull (lbs)	15,000	147	152	161	170	179	storage only
	17,000	142	151	160	169	178	
	20,000	140	149	158	167	176	
	25,000	138	147	155	164	172	
	30,000	136	144				
Storage Capacity (ft)	130	139	148	157	166	175	

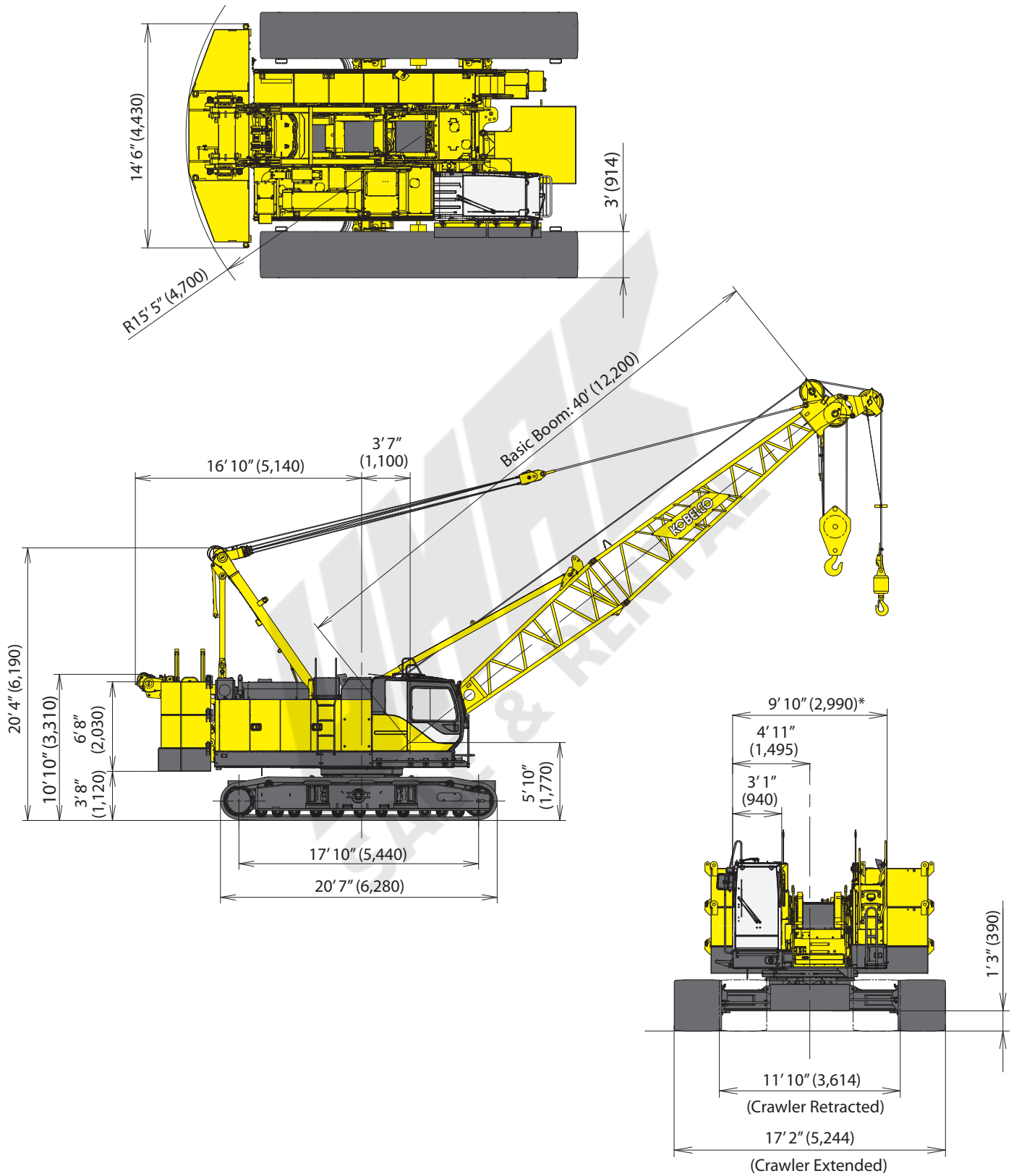
Wire Rope Specifications

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	771ft (235 m)	3.5: 1	120,048 lbf (534 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	525ft (160 m)	3.5: 1	120,048 lbf (534 kN)
Boom drum	6 x 31 P Warrington seal Right hand lay, Regular lay	0.646" to 0.658" (16.40 mm to 16.72 mm)	492ft (150 m)	3.5: 1	47,210 lbf (210 kN)
Third drum (Optional)	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	476ft (145 m)	3.5: 1	81,606 lbf (363 kN)

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SPECIFICATIONS

General Dimensions



* - 10'5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.

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SPECIFICATIONS

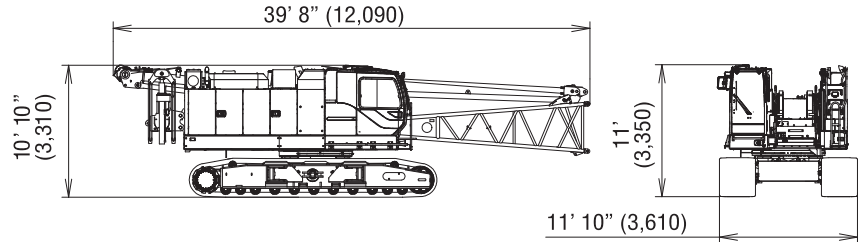
Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

Base Machine - 1

Weight: 95,200 lbs (43,150 kg)

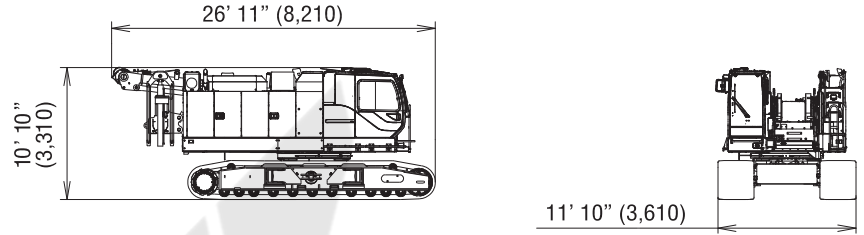
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)



Base Machine - 2

Weight: 90,600 lbs (41,090 kg)

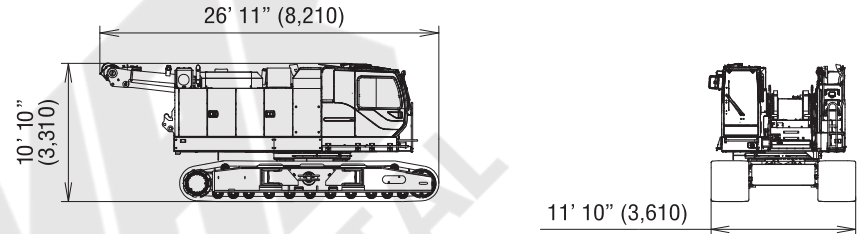
Gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)



Base Machine - 3

Weight: 88,700 lbs (40,230 kg)

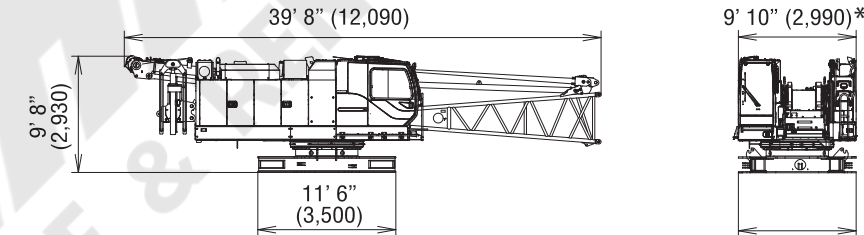
Gantry, crawlers, and wire ropes (front, rear, and boom hoist)



Base Machine - 4

Weight: 61,500 lbs (27,880 kg)

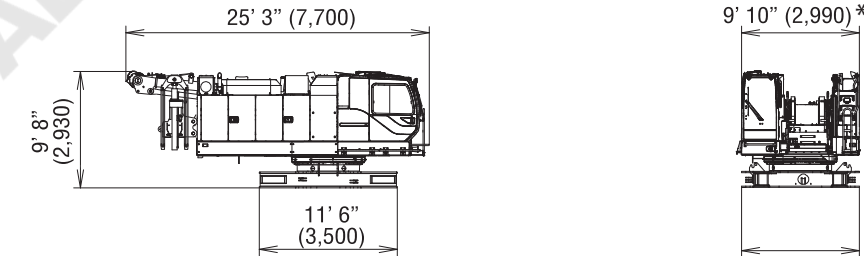
Boom base, gantry, self removal unit, and wire ropes (front, rear, and boom hoist)



Base Machine - 5

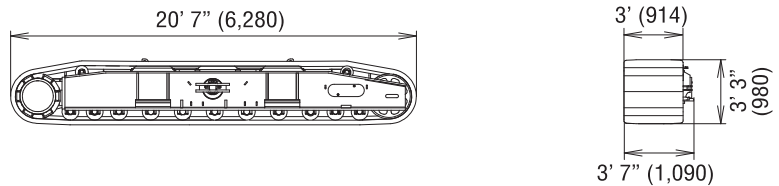
Weight: 56,900 lbs (25,820 kg)

Gantry, self removal unit, and wire ropes (front, rear, and boom hoist)



Crawler

Weight: 16,850 lbs (7,640 kg)



* - 10'5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.

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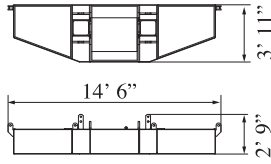
SPECIFICATIONS

Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

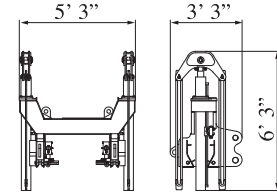
Counterweight Base

Weight: 18,200 lbs (8,310 kg)



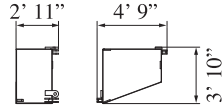
Self Removal Unit

Weight: 1,900 lbs (870 kg)



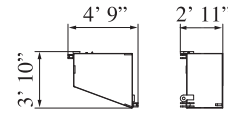
Counterweight (R)

Weight: 12,700 lbs (5,750 kg)



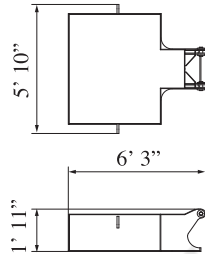
Counterweight (L)

Weight: 12,700 lbs (5,750 kg)



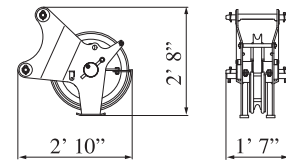
Carbody Weight

Weight: 15,900 lbs (7,200 kg)



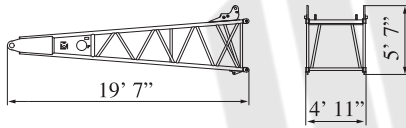
Auxiliary Sheave

Weight: 430 lbs (195 kg)



Boom Base

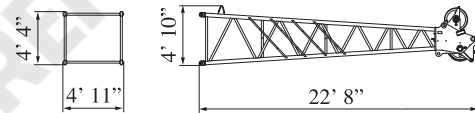
Weight: 3,400 lbs (1,517 kg)



Boom Tip

Weight: 2,900 lbs (1,292 kg)

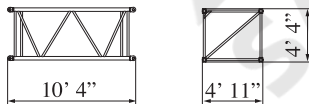
Includes cable roller and guy lines



10 ft (3.0 m) Insert Boom

Weight: 800 lbs (364 kg)

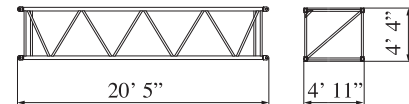
Includes cable roller and guy lines



20 ft (6.1 m) Insert Boom

Weight: 1,400 lbs (613 kg)

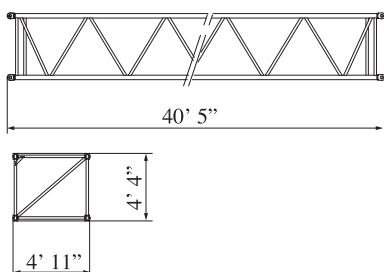
Includes cable roller and guy lines



40 ft (12.2 m) Insert Boom

Weight: 2,400 lbs (1,098 kg)

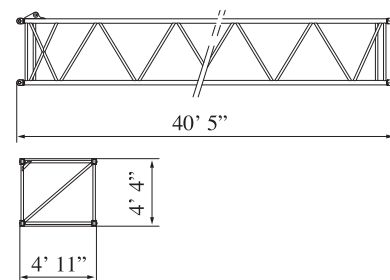
Includes cable roller and guy lines



40 ft (12.2 m) Insert Boom (with lug)

Weight: 2,500 lbs (1,113 kg)

Includes cable roller and guy lines



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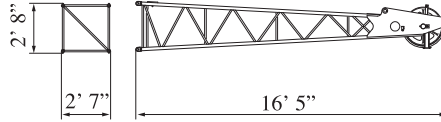
SPECIFICATIONS

Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

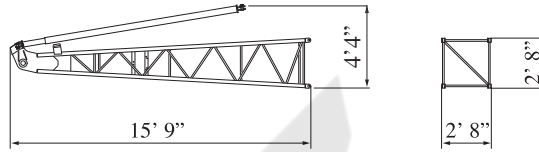
Jib Tip

Weight: 500 lbs (227 kg)
Includes cable roller.



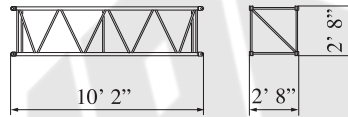
Jib Base and Strut

Weight: 1,400 lbs (637 kg)
Includes guy line.



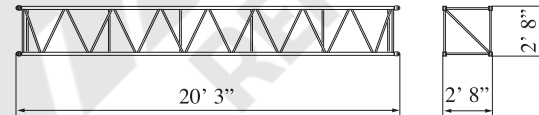
10 ft (3.0 m) Insert Jib

Weight: 280 lbs (128 kg)
Includes cable roller and guy line.



20 ft (6.1 m) Jib Insert

Weight: 480 lbs (218 kg)
Includes cable roller and guy line.



SALE & RENTAL

CK1100G SPECIFICATIONS

Transportation Plan

Refer to pages 10-12

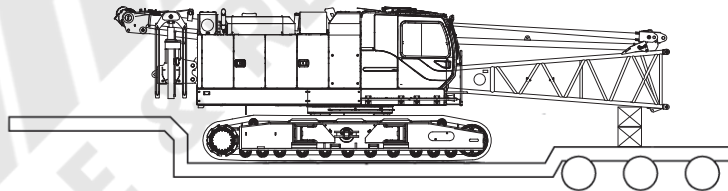
Shipping plan for 150 ft Boom

Description of Item	Weight		Trailer Loads			
	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	95,200	(43,150)	1			
Counterweight Base	18,200	(8,310)		1		
Counterweight (L)	12,700	(5,750)			2	
Counterweight (R)	12,700	(5,750)		1	1	
Carbody Weight	15,900	(7,200)				2
10 ft Insert Boom and Guy Line	800	(364)			1	
20 ft Insert Boom and Guy Line	1,400	(613)		1		
40 ft Insert Boom and Guy Line	2,400	(1,098)			1	
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,500	(1,113)				1
Boom Tip and Guy Line	2,900	(1,292)		1		
Jib Base and Guy Line	1,400	(637)				
10 ft Insert Jib and Guy Line	280	(128)				
20 ft Insert Jib and Guy Line	480	(218)				
Jib Tip	500	(227)				
75 Ton Block	3,000	(1,361)		1		
13 Ton Ball	800	(365)		1		
Ladder Assembly	90	(41)				1
Support Box	5,000	(2,268)				1
Approx. Total Shipping Weight		lbs (kg)	95,200 (43,150)	39,000 (17,691)	41,300 (18,712)	39,390 (17,822)

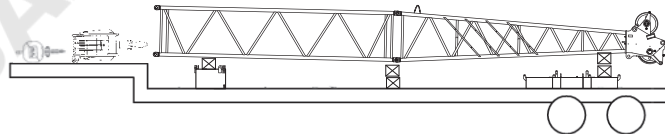
* Third drum is not included. Add 4,200 lbs if third drum is installed.

Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

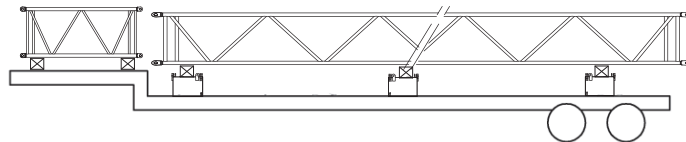
Trailer #1



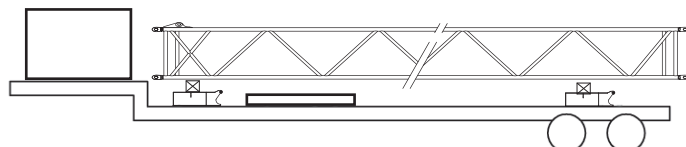
Trailer #2



Trailer #3

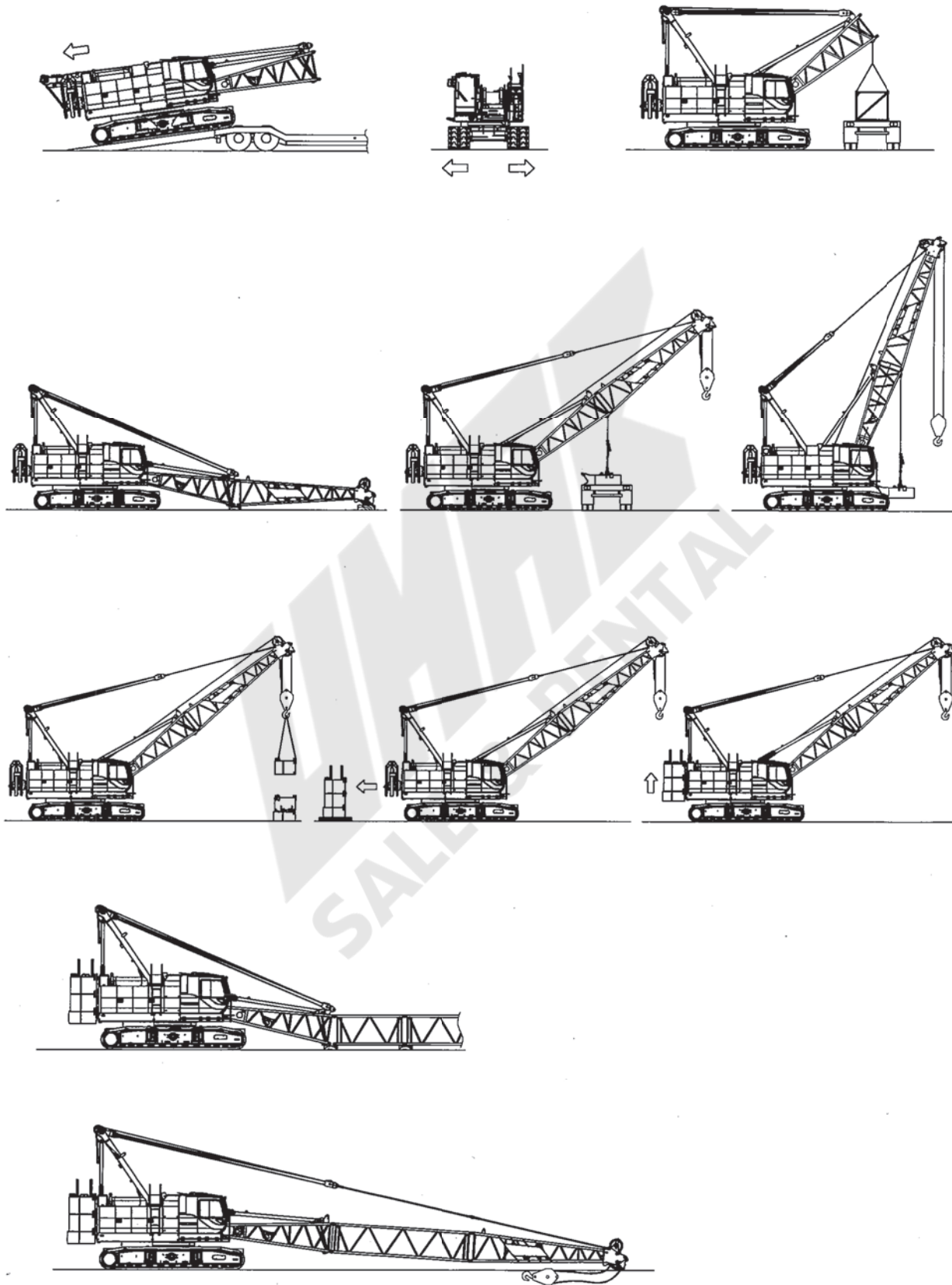


Trailer #4

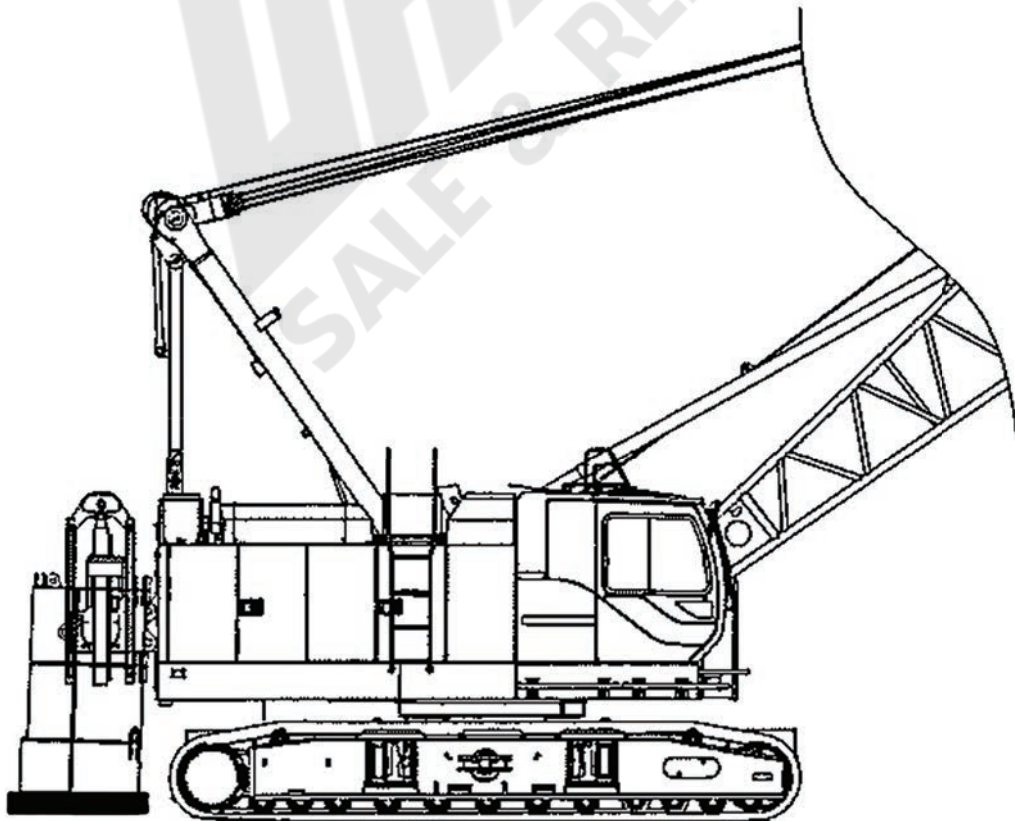
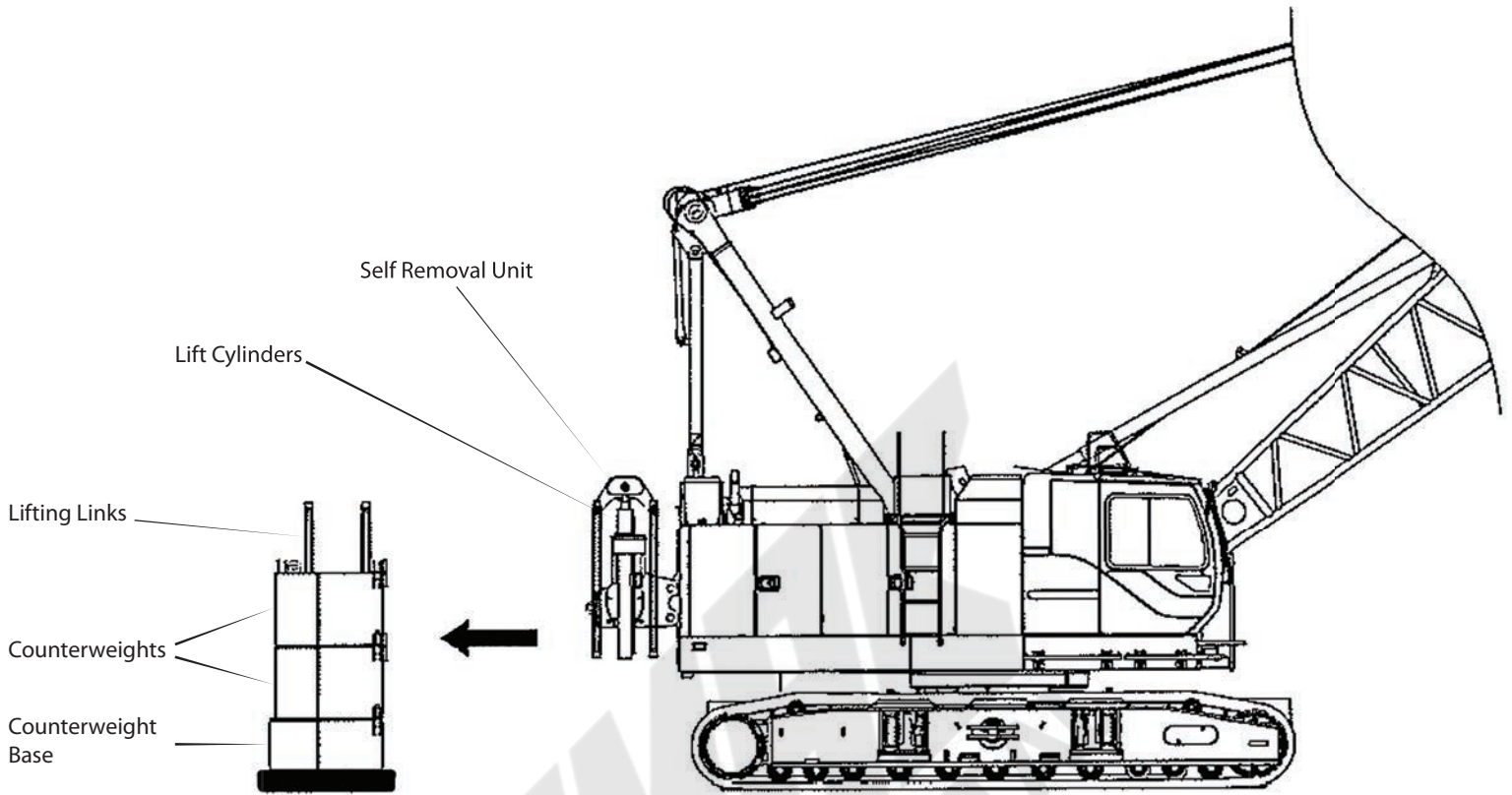


CK1100G SPECIFICATIONS

Self-Assembly Procedure



Counterweight Self-Removal Device



Boom and Fixed Jib Arrangement

Boom Arrangement

Boom length ft (m)	Boom arrangement
40 (12.2)	
50 (15.2)	
60 (18.3)	※
70 (21.3)	※
80 (24.4)	※
90 (27.4)	※
100 (30.5)	※
110 (33.5)	※
120 (36.6)	※
130 (39.6)	※
140 (42.7)	※

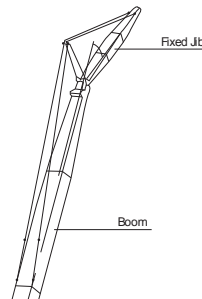
Boom length ft (m)	Boom arrangement
150 (45.7)	※
160 (48.8)	※
170 (51.8)	※
180 (54.9)	※
190 (57.9)	※
200 (61.0)	※

Symbol	Boom Length	Remarks
	20.0 ft (6.1 m)	Boom Base
	20.0 ft (6.1 m)	Boom Top
	10.0 ft (3.1 m)	Insert Boom
	20.0 ft (6.1 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom with lug

↗ mark shows the guy line installing position when the jib is used.

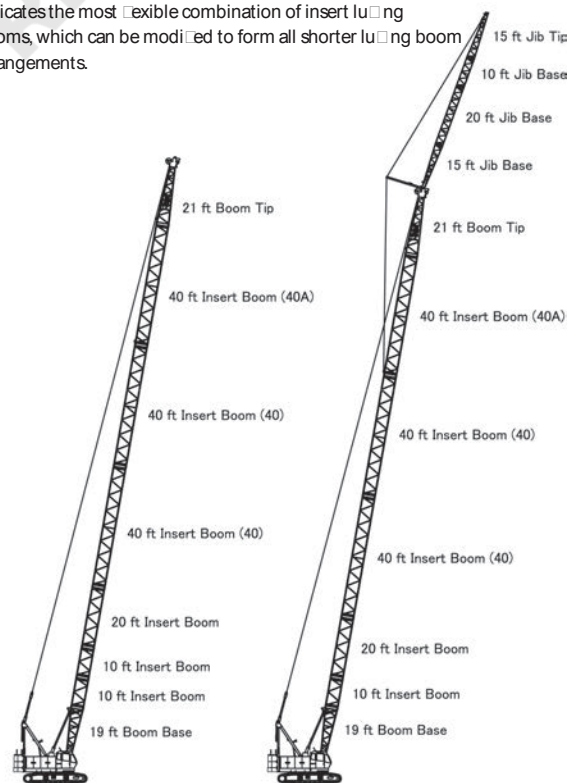
※ indicates the most flexible combination of insert lugging booms, which can be modified to form all shorter lugging boom arrangements.

Fixed Jib Arrangement



Crane boom length	Jib length ft (m)	Jib arrangement
80 ft (24.4 m)	30 (9.1)	
	40 (12.2)	
190 ft (57.9 m)	50 (15.2)	
	60 (18.3)	

Symbol	Jib Length	Remarks
	15 ft (4.6 m)	Jib Base
	15 ft (4.6 m)	Jib Top
	10 ft (3.0 m)	Insert Jib
	20 ft (6.1 m)	Insert Jib



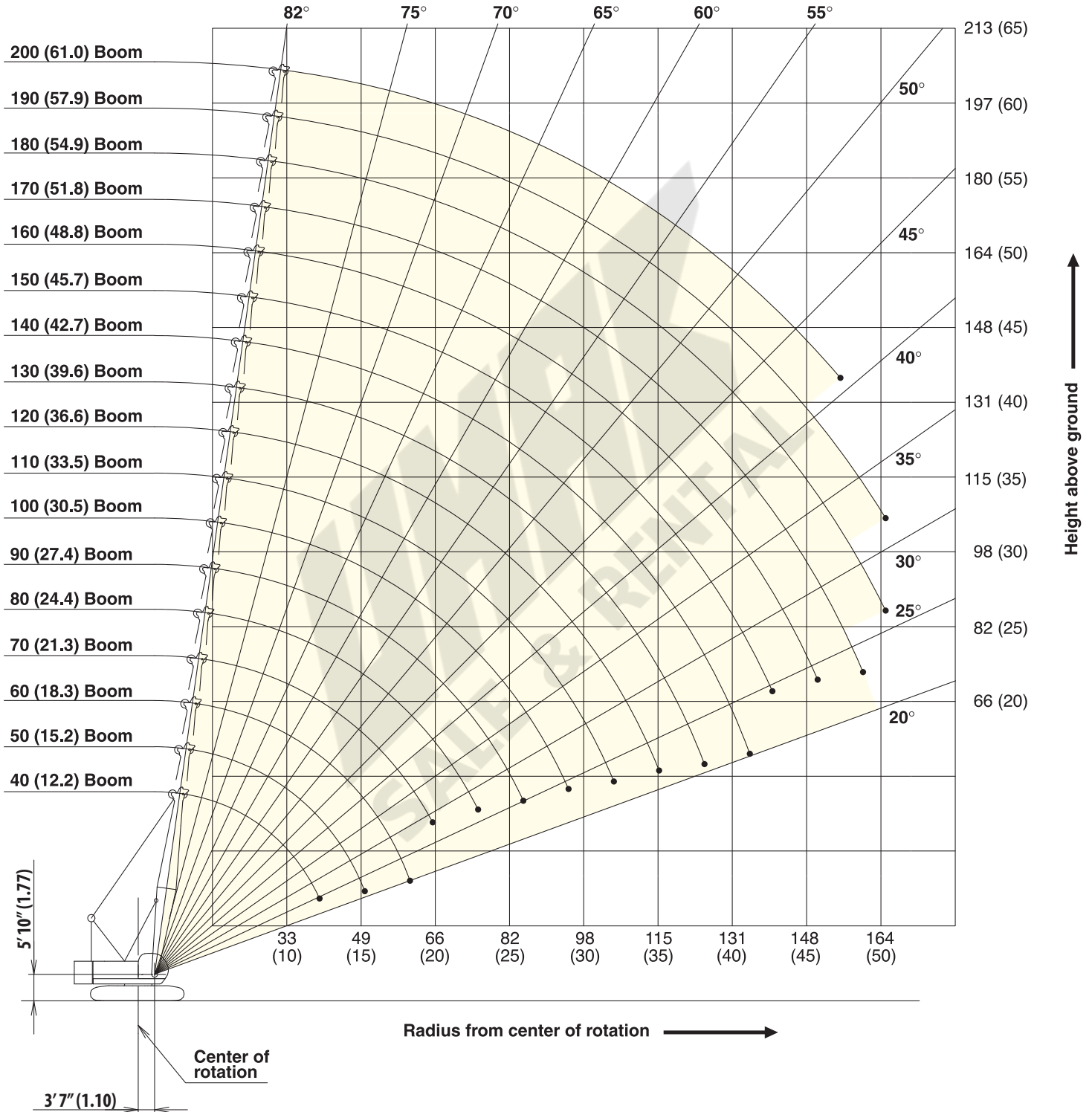
Main Boom - 200 ft (61.0 m)

Main Boom - 190 ft (57.9 m)
Fixed Jib - 60 ft (18.3 m)

Working Ranges

Main Boom

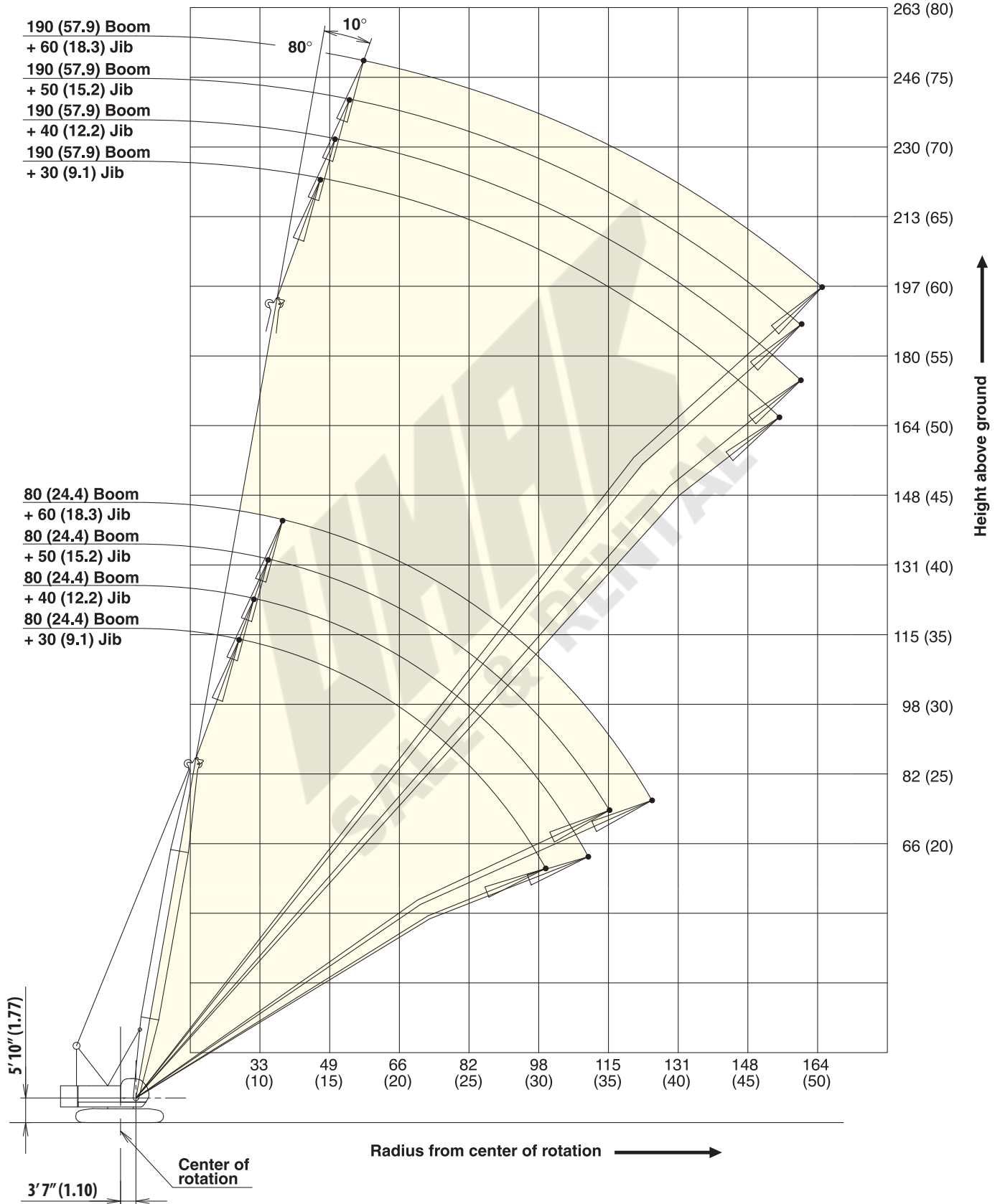
Unit : ft (m)



Working Ranges

Fixed Jib 10°

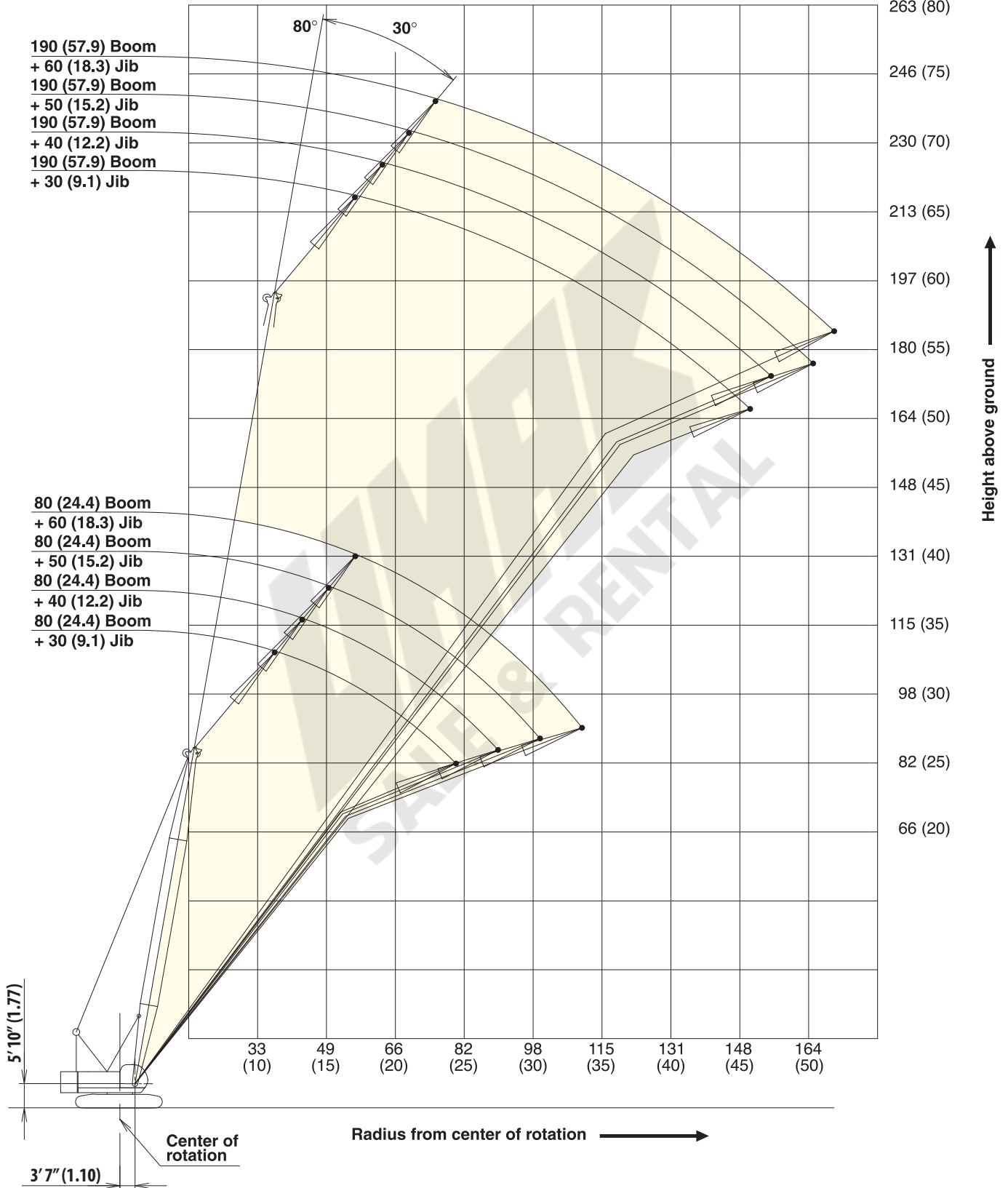
Unit : ft (m)



Working Ranges

Fixed Jib 30°

Unit : ft (m)



Supplemental Data

1. 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).
2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
3. 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.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
6. 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.
7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	430	2,500	3,700	5,100	6,700

8. The total load that can be lifted by jib is limited by rated jib loads.
9. Boom lengths for jib mounting are 80 ft (24.4 m) to 190 ft (57.9 m)
10. The total load that can be lifted by the auxiliary sheave is the value for 430 lbs deducted from rated load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 24,000 lbs.

11. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
12. The boom should be erected over the front of the crawlers, not laterally. When lifting from or lowering to the ground the boom at length of 190 ft (57.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
13. Least stable position is over the side.
14. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000

No. of Parts of line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

Maximum Load for Fixed Jib

No. of Parts of line	1
Maximum Loads (lbs)	24,000

Maximum Load Auxiliary Sheave

No. of Parts of line	1
Maximum Loads (lbs)	24,000

15. Rated loads listed 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.
16. Designed and rated to comply with ANSI Code B30.5.

CK1100G

SPECIFICATIONS

Main Boom Lift Capacity

Full Counterweight: 69,000 lbs Carbody Weight: 31,800

40' Boom			50' Boom			60' Boom			70' Boom			80' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
11.0	80.5	220,000 *	12.0	81.2	213,200 *	13.0	81.7	200,400 *	15.0	81.3	151,000 *	16.0	81.6	151,000 *
12.0	79.0	213,300 *	13.0	80.0	200,600 *	14.0	80.7	187,400 *	16.0	80.4	151,000 *	17.0	80.9	149,300 *
13.0	77.5	200,800 *	14.0	78.9	187,800 *	15.0	79.8	175,200 *	17.0	79.6	149,400 *	18.0	80.2	146,500 *
14.0	76.0	188,100 *	15.0	77.7	175,600 *	16.0	78.8	164,800 *	18.0	78.7	146,700 *	19.0	79.5	139,400 *
15.0	74.6	175,900 *	16.0	76.6	165,300 *	17.0	77.8	155,500 *	19.0	77.9	139,800 *	20.0	78.8	131,800 *
16.0	73.1	165,500 *	17.0	75.4	156,000 *	18.0	76.8	146,900 *	20.0	77.1	132,200 *	22.0	77.3	115,100 *
17.0	71.6	156,300 *	18.0	74.2	147,400 *	19.0	75.9	139,800 *	22.0	75.4	115,400 *	24.0	75.8	101,000 *
18.0	70.1	147,800 *	19.0	72.9	140,100 *	20.0	74.9	132,200 *	24.0	73.7	101,300 *	26.0	74.3	89,200 *
19.0	68.5	140,500 *	20.0	71.7	132,400 *	22.0	72.9	115,100 *	26.0	72.0	89,600 *	28.0	72.8	80,500 *
20.0	66.9	132,800 *	22.0	69.3	115,300 *	24.0	70.9	100,800 *	28.0	70.3	80,800 *	30.0	71.2	72,800 *
22.0	63.7	115,600 *	24.0	66.8	101,000 *	26.0	68.8	89,100 *	30.0	68.5	73,000 *	32.0	69.7	66,600 *
24.0	60.4	101,300 *	26.0	64.3	89,400 *	28.0	66.7	80,500 *	32.0	66.7	67,000 *	34.0	68.2	61,600 *
26.0	57.0	89,600 *	28.0	61.7	80,700 *	30.0	64.6	72,800 *	34.0	64.9	62,000 *	36.0	66.6	57,300 *
28.0	53.4	80,900 *	30.0	59.1	73,000 *	32.0	62.5	66,600 *	36.0	63.0	57,800 *	38.0	65.1	53,100 *
30.0	49.8	73,300 *	32.0	56.3	67,000 *	34.0	60.3	61,600 *	38.0	61.2	53,600 *	40.0	63.5	49,300 *
32.0	45.8	67,200 *	34.0	53.4	62,000 *	36.0	58.0	57,300 *	40.0	59.3	49,800 *	42.0	61.8	46,600 *
34.0	41.2	61,700 *	36.0	50.3	57,800 *	38.0	55.7	53,100 *	42.0	57.3	46,900 *	44.0	60.2	43,800 *
36.0	36.2	56,600 *	38.0	47.3	53,600 *	40.0	53.4	49,300 *	44.0	55.3	44,100 *	46.0	58.5	41,100 *
38.0	31.1	51,500 *	40.0	44.0	49,800 *	42.0	50.9	46,600 *	46.0	53.3	41,300 *	48.0	56.8	39,100 *
40.0	25.4	45,900 *	42.0	40.4	47,000 *	44.0	48.3	43,800 *	48.0	51.2	39,400 *	50.0	55.1	37,100 *
			44.0	36.7	44,300 *	46.0	45.8	41,100 *	50.0	49.0	37,400 *	55.0	50.5	32,700 *
			46.0	32.9	41,500 *	48.0	42.8	39,200 *	55.0	43.2	33,200 *	60.0	45.7	29,200 *
			48.0	27.6	38,300 *	50.0	39.9	37,200 *	60.0	36.9	29,600 *	65.0	40.4	26,300 *
			50.0	22.3	35,100 *	60.0	20.7	28,600 *	65.0	29.2	26,800 *	75.0	26.9	22,100 *
Reeves		8	Reeves		8	Reeves		8	Reeves		6	Reeves		6
90' Boom			100' Boom			110' Boom			120' Boom			130' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
17.0	81.9	125,800 *	19.0	81.6	125,600 *	20.0	81.8	100,800 *	22.0	81.6	98,700 *	24.0	81.3	85,100 *
18.0	81.3	125,800 *	20.0	81.0	123,600 *	22.0	80.8	100,800 *	24.0	80.6	94,200 *	26.0	80.4	83,900 *
19.0	80.7	125,800 *	22.0	79.9	112,200 *	24.0	79.7	96,500 *	26.0	79.6	88,000 *	28.0	79.5	78,200 *
20.0	80.0	124,000 *	24.0	78.7	100,600 *	26.0	78.6	88,500 *	28.0	78.6	79,900 *	30.0	78.6	71,900 *
22.0	78.7	112,500 *	26.0	77.5	88,900 *	28.0	77.6	80,200 *	30.0	77.7	72,200 *	32.0	77.7	65,900 *
24.0	77.4	100,800 *	28.0	76.3	80,200 *	30.0	76.5	72,400 *	32.0	76.7	66,100 *	34.0	76.9	60,900 *
26.0	76.1	89,100 *	30.0	75.1	72,400 *	32.0	75.4	66,300 *	34.0	75.7	61,100 *	36.0	75.9	56,600 *
28.0	74.8	80,500 *	32.0	74.0	66,300 *	34.0	74.3	61,300 *	36.0	74.7	56,800 *	38.0	75.0	52,300 *
30.0	73.5	72,800 *	34.0	72.8	61,300 *	36.0	73.2	57,000 *	38.0	73.7	52,500 *	40.0	74.1	48,400 *
32.0	72.1	66,600 *	36.0	71.6	57,000 *	38.0	72.2	52,700 *	40.0	72.7	48,700 *	42.0	73.2	45,600 *
34.0	70.8	61,600 *	38.0	70.3	52,700 *	40.0	71.1	48,900 *	42.0	71.7	45,800 *	44.0	72.2	42,800 *
36.0	69.4	57,300 *	40.0	69.1	48,900 *	42.0	70.0	46,200 *	44.0	70.7	43,000 *	46.0	71.3	40,000 *
38.0	68.0	53,100 *	42.0	67.9	46,200 *	44.0	68.9	43,400 *	46.0	69.7	40,200 *	48.0	70.4	38,000 *
40.0	66.6	49,300 *	44.0	66.6	43,400 *	46.0	67.8	40,700 *	48.0	68.6	38,300 *	50.0	69.4	36,000 *
42.0	65.2	46,500 *	46.0	65.4	40,700 *	48.0	66.6	38,700 *	50.0	67.6	36,300 *	55.0	67.1	31,600 *
44.0	63.8	43,700 *	48.0	64.1	38,700 *	50.0	65.4	36,600 *	55.0	65.0	32,000 *	60.0	64.6	28,100 *
46.0	62.4	40,900 *	50.0	62.8	36,600 *	55.0	62.5	32,300 *	60.0	62.3	28,300 *	65.0	62.2	25,200 *
48.0	60.9	38,900 *	55.0	59.5	32,300 *	60.0	59.5	28,700 *	65.0	59.6	25,400 *	70.0	59.6	22,900 *
50.0	59.4	36,900 *	60.0	56.1	28,700 *	65.0	56.5	25,900 *	70.0	56.8	23,200 *	75.0	57.0	20,900 *
55.0	55.7	32,500 *	65.0	52.5	25,900 *	70.0	53.2	23,500 *	75.0	53.8	21,200 *	80.0	54.3	19,000 *
60.0	51.7	29,000 *	70.0	48.8	23,500 *	75.0	49.9	21,400 *	80.0	50.8	19,400 *	85.0	51.6	17,500 *
65.0	47.4	26,100 *	75.0	44.8	21,400 *	80.0	46.4	19,600 *	85.0	47.7	17,700 *	90.0	48.7	16,100 *
70.0	42.9	23,800 *	80.0	40.5	19,600 *	85.0	42.6	18,100 *	90.0	44.3	16,500 *	95.0	45.6	15,000 *
75.0	37.9	21,800 *	85.0	36.0	18,100 *	90.0	38.6	16,800 *	95.0	40.7	15,300 *	100.0	42.4	14,000 *
80.0	32.2	20,100 *	90.0	30.5	16,900 *	95.0	34.1	15,600 *	100.0	36.9	14,200 *	110.0	35.4	12,100 *
85.0	25.7	18,600 *	95.0	24.0	15,800 *	100.0	29.1	14,600 *	110.0	27.8	12,600 *	120.0	26.6	10,800 *
						105.0	23.2	13,770 *	115.0	22.2	11,840 *	125.0	21.3	10,230 *
Reeves		5	Reeves		5	Reeves		4	Reeves		4	Reeves		4

Note: Designed and rated to comply with ANSI Code B30.5
Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
Refer to notes on page 20.

CK1100G

SPECIFICATIONS

Main Boom Lift Capacity

Full Counterweight: 69,000 lbs Carbody Weight: 31,800

140' Boom			150' Boom			160' Boom			170' Boom			180' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
24.0	81.9	72,900 *	26.0	81.7	62,200 *	28.0	81.5	50,200 *	30.0	81.3	44,500 *	30.0	81.8	39,300 *
26.0	81.1	71,800 *	28.0	80.9	61,300 *	30.0	80.8	50,100 *	32.0	80.7	43,900 *	32.0	81.2	38,800 *
28.0	80.3	70,800 *	30.0	80.1	60,400 *	32.0	80.1	49,700 *	34.0	80.0	43,200 *	34.0	80.5	38,200 *
30.0	79.4	69,000 *	32.0	79.4	59,400 *	34.0	79.4	49,200 *	36.0	79.3	42,500 *	36.0	79.9	37,600 *
32.0	78.6	64,700 *	34.0	78.6	57,200 *	36.0	78.6	48,500 *	38.0	78.6	41,900 *	38.0	79.2	37,000 *
34.0	77.8	60,500 *	36.0	77.8	54,100 *	38.0	77.9	47,800 *	40.0	77.9	41,200 *	40.0	78.6	36,400 *
36.0	76.9	56,200	38.0	77.0	51,000 *	40.0	77.2	46,600 *	42.0	77.2	40,600 *	42.0	77.9	35,800 *
38.0	76.1	52,000 *	40.0	76.3	48,000 *	42.0	76.4	44,300 *	44.0	76.5	40,000 *	44.0	77.2	35,100 *
40.0	75.2	48,200	42.0	75.5	45,200	44.0	75.6	42,100 *	46.0	75.8	39,300 *	46.0	76.6	34,500 *
42.0	74.4	45,400 *	44.0	74.7	42,400 *	46.0	74.9	39,800 *	48.0	75.1	37,400 *	48.0	75.9	33,900 *
44.0	73.5	42,600	46.0	73.9	39,600	48.0	74.1	37,800	50.0	74.4	35,400 *	50.0	75.3	33,300 *
46.0	72.7	39,800 *	48.0	73.1	37,500 *	50.0	73.4	35,800 *	55.0	72.6	31,200 *	55.0	73.7	30,800 *
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400	60.0	70.9	27,600	60.0	72.0	27,400
50.0	71.0	35,800 *	55.0	70.3	31,200 *	60.0	69.6	27,800 *	65.0	69.1	24,600 *	65.0	70.3	24,400 *
55.0	68.8	31,400	60.0	68.2	27,600	65.0	67.7	25,000	70.0	67.3	22,300	70.0	68.6	21,900
60.0	66.6	27,800 *	65.0	66.2	24,800 *	70.0	65.8	22,600 *	75.0	65.4	20,300 *	75.0	66.9	19,900 *
65.0	64.3	25,000	70.0	64.0	22,400	75.0	63.8	20,500	80.0	63.5	18,500	80.0	65.2	18,100
70.0	62.0	22,600 *	75.0	61.9	20,300 *	80.0	61.8	18,700 *	85.0	61.6	16,800 *	85.0	63.4	16,600 *
75.0	59.7	20,500	80.0	59.6	18,500	85.0	59.7	17,000	90.0	59.7	15,400	90.0	61.6	15,200
80.0	57.3	18,700 *	85.0	57.4	17,000 *	90.0	57.6	15,700 *	95.0	57.8	14,300 *	95.0	59.8	14,000 *
85.0	54.8	17,200	90.0	55.2	15,700	95.0	55.4	14,500	100.0	55.8	13,300	100.0	57.9	12,900
90.0	52.2	15,900 *	95.0	52.8	14,400 *	100.0	53.2	13,500 *	110.0	51.5	11,500 *	110.0	54.0	11,100 *
95.0	49.5	14,600	100.0	50.3	13,400	110.0	48.6	11,700	120.0	47.0	9,800	120.0	49.9	9,600
100.0	46.8	13,600 *	110.0	45.1	11,700 *	120.0	43.6	10,100 *	130.0	42.2	8,700 *	130.0	45.6	8,500 *
110.0	40.8	11,900	120.0	39.3	10,300	130.0	38.1	8,900	140.0	36.8	7,700	140.0	40.9	7,400
120.0	34.0	10,300 *	130.0	32.8	8,900 *	140.0	31.6	7,900 *	150.0	30.5	6,800 *	150.0	35.7	6,500 *
130.0	25.7	9,200	140.0	24.3	8,000	150.0	23.7	7,100	160.0	23.2	5,900	160.0	29.7	5,600
135.0	20.5	8,830 *										165.0	26.5	5,100 *
Reeves		4	Reeves		4	Reeves		2	Reeves		2	Reeves		2
190' Boom			200' Boom											
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)									
32.0	81.6	34,400 *	34.0	81.5	30,300 *									
34.0	81.0	33,800 *	36.0	80.9	29,700 *									
36.0	80.4	33,300 *	38.0	80.3	29,200 *									
38.0	79.8	32,700 *	40.0	79.7	28,700 *									
40.0	79.2	32,200 *	42.0	79.1	28,200 *									
42.0	78.6	31,700 *	44.0	78.6	27,700 *									
44.0	78.0	31,100 *	46.0	78.0	27,300 *									
46.0	77.4	30,600 *	48.0	77.4	26,800 *									
48.0	76.7	30,100 *	50.0	76.8	26,300 *									
50.0	76.1	29,600 *	55.0	75.3	24,900 *									
55.0	74.5	28,100 *	60.0	73.8	23,200 *									
60.0	73.0	26,200 *	65.0	72.4	21,500 *									
65.0	71.4	24,000 *	70.0	70.9	20,000 *									
70.0	69.8	21,800 *	75.0	69.3	18,500 *									
75.0	68.2	19,900	80.0	67.8	17,100 *									
80.0	66.5	18,000 *	85.0	66.2	15,900 *									
85.0	64.9	16,400	90.0	64.6	14,700									
90.0	63.2	15,000 *	95.0	63.0	13,500 *									
95.0	61.5	13,900	100.0	61.4	12,400									
100.0	59.7	12,900 *	110.0	58.1	10,600 *									
110.0	56.2	11,000	120.0	54.6	9,200									
120.0	52.5	9,400 *	130.0	51.1	7,800 *									
130.0	48.5	8,200	140.0	47.2	6,500									
140.0	44.3	7,200 *	150.0	43.1	5,200 *									
150.0	39.7	6,300	155.0	41.0	4,650 *									
160.0	34.8	5,300 *												
165.0	32.1	4,650												
Reeves		2	Reeves		2									

Note: Designed and rated to comply with ANSI Code B30.5
 Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
 Refer to notes on page 20.

CK1100G SPECIFICATIONS

Fixed Jib Lift Capacity

Full Counterweight: 69,000 lbs Carbody Weight: 31,800

80' Boom																							
30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)					
10			30			10			30			10			30			10			30		
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)			
30.0	79.3	24,000*				34.0	79.3	24,000*				38.0	79.3	20,000*				40.0	79.8	18,000*			
32.0	78.0	24,000*				36.0	78.3	24,000*				40.0	78.4	20,000*				45.0	77.7	18,000*			
34.0	77.0	24,000*				38.0	77.4	24,000*				45.0	76.1	20,000*				50.0	75.6	17,850*			
36.0	75.9	24,000*				40.0	76.4	24,000*				50.0	73.8	20,000*				55.0	73.3	16,180*			
38.0	74.9	24,000*	38.0	79.6	21,000*	45.0	73.9	24,000*	45.0	79.7	15,360*	55.0	71.3	18,560*	55.0	78.0	11,080*	60.0	71.2	14,850*	60.0	78.7	8,950*
40.0	73.8	24,000*	40.0	78.5	21,000*	50.0	71.4	24,000*	50.0	77.1	14,480*	60.0	68.9	17,080*	60.0	75.5	10,490*	65.0	69.0	13,730*	65.0	76.4	8,480*
45.0	71.1	24,000*	45.0	75.7	20,700*	55.0	68.7	22,480*	55.0	74.3	13,640*	65.0	66.5	15,800*	65.0	73.0	9,980*	70.0	66.7	12,760*	70.0	74.1	8,060*
50.0	68.3	24,000*	50.0	72.8	19,510*	60.0	66.1	20,700*	60.0	71.6	12,980*	70.0	64.0	14,720*	70.0	70.4	9,540*	75.0	64.3	11,860*	75.0	71.5	7,670*
55.0	65.3	24,000*	55.0	69.7	18,380*	65.0	63.4	19,180*	65.0	68.8	12,360*	75.0	61.3	13,710*	75.0	67.6	9,100*	80.0	61.9	11,130*	80.0	69.0	7,340*
60.0	62.4	24,000*	60.0	66.7	17,500*	70.0	60.6	17,870*	70.0	65.9	11,830*	80.0	58.7	12,870*	80.0	64.8	8,730*	85.0	59.5	10,470*	85.0	66.5	7,030*
65.0	59.3	22,920	65.0	63.6	16,710*	75.0	57.6	16,660*	75.0	62.7	11,350*	85.0	56.0	12,140*	85.0	62.0	8,420*	90.0	57.0	9,870*	90.0	63.9	6,760*
70.0	56.2	20,810	70.0	60.3	16,020*	80.0	54.6	15,670*	80.0	59.6	10,930*	90.0	53.2	11,500*	90.0	59.0	8,130*	95.0	54.2	9,320*	95.0	60.9	6,500*
75.0	52.8	18,910	75.0	56.7	15,380*	85.0	51.5	14,810*	85.0	56.3	10,560*	95.0	50.0	10,890*	95.0	55.6	7,840*	100.0	51.5	8,860*	100.0	58.1	6,280*
80.0	49.3	17,370	80.0	53.1	14,850*	90.0	48.3	14,040*	90.0	52.9	10,250*	100.0	46.9	10,360*	100.0	52.3	7,620*	105.0	48.7	8,440*	105.0	55.0	6,100*
85.0	45.7	16,020				95.0	44.6	13,310*				105.0	43.6	9,890*				110.0	45.7	8,060*	110.0	51.8	5,930*
90.0	41.8	14,850				100.0	40.8	12,690*				110.0	40.0	9,470*				115.0	42.3	7,690*			
95.0	37.2	13,750				105.0	36.7	12,120				115.0	35.8	9,080*				120.0	38.8	7,380*			
100.0	32.4	12,830				110.0	32.1	11,350*										125.0	35.1	7,120*			
Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1	

90' Boom																							
30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)					
10			30			10			30			10			30			10			30		
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)			
32.0	79.1	24,000*				36.0	79.3	24,000*				38.0	80.0	20,000*				45.0	78.6	18,000*			
34.0	78.1	24,000*				38.0	78.4	24,000*				40.0	79.2	20,000*				50.0	76.6	18,000*			
36.0	77.1	24,000*				40.0	77.5	24,000*				45.0	77.1	20,000*				55.0	74.5	16,970*			
38.0	76.2	24,000*				45.0	75.2	24,000*				50.0	75.0	20,000*				60.0	72.5	15,630*	60.0	79.5	9,100*
40.0	75.2	24,000*	40.0	79.5	21,000*	50.0	72.9	24,000*	50.0	78.2	14,810*	55.0	72.7	19,550*	55.0	78.9	11,300*	65.0	70.5	14,460*	65.0	77.4	8,660*
45.0	72.7	24,000*	45.0	77.0	21,000*	55.0	70.4	23,890*	55.0	75.6	14,020*	60.0	70.5	18,000*	60.0	76.7	10,730*	70.0	68.4	13,470*	70.0	75.3	8,240*
50.0	70.2	24,000*	50.0	74.4	20,100*	60.0	68.1	22,020*	60.0	73.2	13,330*	65.0	68.3	16,730*	65.0	74.4	10,250*	75.0	66.1	12,520*	75.0	72.9	7,870*
55.0	67.5	24,000*	55.0	71.6	19,020*	65.0	65.6	20,410*	65.0	70.7	12,760*	70.0	66.1	15,580*	70.0	72.0	9,780*	80.0	64.0	11,770*	80.0	70.7	7,530*
60.0	64.9	24,000*	60.0	68.9	18,120*	70.0	63.2	19,040*	70.0	68.1	12,230*	75.0	63.6	14,520*	75.0	69.5	9,360*	85.0	61.8	11,080*	85.0	68.4	7,230*
65.0	62.2	22,660	65.0	66.1	17,320*	75.0	60.4	17,760*	75.0	65.3	11,720*	80.0	61.3	13,660*	80.0	67.0	8,990*	90.0	59.5	10,470*	90.0	66.0	6,960*
70.0	59.4	20,540	70.0	63.3	16,620*	80.0	57.8	16,730*	80.0	62.5	11,300*	85.0	58.8	12,890*	85.0	64.5	8,680*	95.0	57.1	9,890*	95.0	63.4	6,700*
75.0	56.4	18,620	75.0	60.2	15,960*	85.0	55.1	15,800*	85.0	59.7	10,930*	90.0	56.3	12,210*	90.0	61.8	8,370*	100.0	54.7	9,390*	100.0	60.9	6,480*
80.0	53.5	17,080	80.0	57.1	15,430*	90.0	52.3	14,740	90.0	56.7	10,580*	95.0	53.6	11,570*	95.0	58.9	8,110*	105.0	52.2	8,950*	105.0	58.3	6,280*
85.0	50.4	15,760	85.0	53.9	14,940*	95.0	49.1	13,620	95.0	53.4	10,270*	100.0	50.9	11,020*	100.0	56.1	7,870*	110.0	49.6	8,550*	110.0	55.5	6,100*
90.0	47.1	14,570				100.0	46.0	12,690				105.0	48.0	10,530*				115.0	46.7	8,150*	115.0	52.4	5,930*
95.0	43.4	13,470				105.0	42.7	11,860				110.0	45.1	10,070*				120.0	43.8	7,820*			
100.0	39.7	12,540				110.0	39.1	11,080				115.0	41.7	9,650*				125.0	40.7	7,530*			
105.0	35.6	11,700				115.0	35.0	10,360				120.0	38.2	9,300*				130.0	37.4	7,270*			
												125.0	34.4	8,970*				135.0	33.8	7,010*			
Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1		Reeves	1	

Note: Designed and rated to comply with ANSI Code B30.5

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts. Refer to notes on page 20.

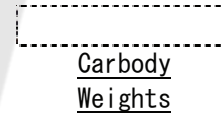
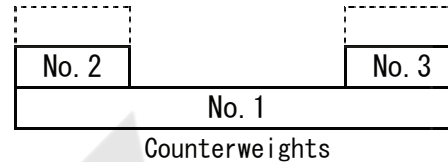
Supplemental Data - Clamshell

1. 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).
2. Rated loads do not exceed 66% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
3. 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.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Must have 43,600 lbs (2) Counterweights installed, and without carbody weights.
4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
6. 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.
7. The boom should be erected over the front of the crawlers, not laterally.
8. Least stable position is over the side.
9. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1
Maximum Loads (lbs)	22,000

10. Rated loads listed 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.
11. Assembling the Counterweight
43,600 lbs counterweight (No. 1 ~ No. 3)
Without Carbody weights



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

Clamshell

Boom:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between each section.

Basic boom length: 40 ft (12.2 m)

Max. boom length: 120 ft (36.6 m)

Limit on clamshell bucket weight: 4,600 lbs (2,100 kg)

Optional tagline: Hydraulic operated type and spring type.

Boom Component Chart:

Boom length ft (m)	Boom arrangement
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-B-B-Tip, Base-A-A-C-Tip
110 (33.5)	Base-A-B-C-Tip
120 (36.6)	Base-A-A-B-C-Tip, Base-B-B-C-Tip

Base = Boom Base

Insert: A = 10 ft (3.05 m)

B = 20 ft (6.10 m)

C = 40 ft (12.2 m)

Tip = Boom Tip

1. Figures represent maximum allowable capacity, and assume level, ground and ideal working conditions.
2. Capacities are calculated at 66% of the minimum tipping loads.
3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a sort of uneven supporting surface, rapid cycle operations, or bucket.
4. The combined weight of the bucket and load must not exceed these capacities.

3 Counterweights (43,600 lbs) - Without Carbody weights - Crawlers in extended position.

40' Boom			50' Boom			60' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	63.7	22,000 *	26.0	64.3	22,000 *	30.0	64.6	22,000 *
24.0	60.5	22,000 *	28.0	61.7	22,000 *	32.0	62.5	22,000 *
26.0	57.1	22,000 *	30.0	59.0	22,000 *	34.0	60.3	21,400 *
28.0	53.5	22,000 *	32.0	56.3	22,000 *	36.0	58.1	20,200 *
30.0	49.8	22,000 *	34.0	53.5	21,400 *	38.0	55.8	19,200 *
32.0	45.9	22,000 *	36.0	50.5	20,200 *	40.0	53.4	18,200 *
34.0	41.7	21,400 *	38.0	47.4	19,200 *	42.0	51.0	17,300 *
36.0	37.0	20,200 *	40.0	44.2	18,200 *	44.0	48.4	16,500 *
38.0	31.8	19,200 *	42.0	40.7	17,300 *	46.0	45.8	15,800 *
40.0	25.7	18,200 *	44.0	37.0	16,500 *	48.0	43.0	15,200 *
			46.0	32.9	15,800 *	50.0	40.1	14,600 *
			48.0	28.3	15,200 *	52.0	37.0	14,000 *
						54.0	33.6	13,500 *
						56.0	29.9	13,000 *
						58.0	25.7	12,500 *

Refer to notes on page 29.

CK1100G

SPECIFICATIONS

Clamshell

3 Counterweights (43,600 lbs) - Without Carbody weights - Crawlers in extended position.

70' Boom			80' Boom			90' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *
38.0	61.2	19,200 *	42.0	61.9	17,300 *	46.0	62.4	15,800 *
40.0	59.3	18,200 *	44.0	60.2	16,500 *	48.0	60.9	15,200 *
42.0	57.4	17,300 *	46.0	58.6	15,800 *	50.0	59.5	14,600 *
44.0	55.4	16,500 *	48.0	56.9	15,200 *	52.0	58.0	14,000 *
46.0	53.4	15,800 *	50.0	55.1	14,600 *	54.0	56.4	13,500 *
48.0	51.3	15,200 *	52.0	53.3	14,000 *	56.0	54.9	13,000 *
50.0	49.1	14,600 *	54.0	51.5	13,500 *	58.0	53.3	12,500 *
52.0	46.9	14,000 *	56.0	49.6	13,000 *	60.0	51.7	12,100 *
54.0	44.6	13,500 *	58.0	47.7	12,500 *	62.0	50.0	11,700 *
56.0	42.2	13,000 *	60.0	45.7	12,100 *	64.0	48.3	11,400 *
58.0	39.6	12,500 *	62.0	43.7	11,700 *	66.0	46.6	11,000 *
60.0	37.0	12,100 *	64.0	41.5	11,400 *	68.0	44.8	10,700 *
62.0	34.1	11,700 *	66.0	39.3	11,000 *	70.0	43.0	10,400 *
64.0	31.0	11,400 *	68.0	37.0	10,700 *	72.0	41.0	10,100 *
66.0	27.6	11,000 *	70.0	34.5	10,400 *	74.0	39.0	9,700
			72.0	31.8	10,100 *	76.0	36.9	9,200
			74.0	28.9	9,800 *	78.0	34.7	9,000
			76.0	25.7	9,400 *	80.0	32.4	8,500
						82.0	29.9	8,300
						84.0	27.2	7,900
100' Boom			110' Boom			120' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
46.0	65.4	15,800 *	56.0	62.0	11,900 *	56.0	64.5	11,400 *
48.0	64.1	15,200 *	58.0	60.8	11,700 *	58.0	63.4	11,300 *
50.0	62.8	14,600 *	60.0	59.6	11,600 *	60.0	62.3	11,200 *
52.0	61.5	14,000 *	62.0	58.3	11,300 *	62.0	61.3	11,000 *
54.0	60.2	13,500 *	64.0	57.1	11,100 *	64.0	60.2	10,800 *
56.0	58.8	13,000 *	66.0	55.8	10,800 *	66.0	59.0	10,600 *
58.0	57.5	12,500 *	68.0	54.6	10,400 *	68.0	57.9	10,200 *
60.0	56.1	12,100 *	70.0	53.3	10,100	70.0	56.8	9,900
62.0	54.7	11,700 *	72.0	52.0	9,700	72.0	55.6	9,500
64.0	53.3	11,400 *	74.0	50.6	9,300	74.0	54.5	9,100
66.0	51.8	11,000 *	76.0	49.2	8,900	76.0	53.3	8,800
68.0	50.4	10,700 *	78.0	47.8	8,500	78.0	52.1	8,400
70.0	48.8	10,300	80.0	46.4	8,200	80.0	50.8	8,100
72.0	47.3	9,900	82.0	45.0	7,900	82.0	49.6	7,700
74.0	45.7	9,400	84.0	43.4	7,500	84.0	48.3	7,400
76.0	44.1	9,000	86.0	41.9	7,200	86.0	47.0	7,100
78.0	42.4	8,800	88.0	40.3	7,000	88.0	45.7	6,800
80.0	40.6	8,300	90.0	38.6	6,800	90.0	44.3	6,600
82.0	38.8	8,100	92.0	36.9	6,600	92.0	42.9	6,400
84.0	36.9	7,700	94.0	35.1	6,400	94.0	41.5	6,200
86.0	35.0	7,400	96.0	33.3	6,200	96.0	40.0	6,000
88.0	32.9	7,200	98.0	31.3	5,900	98.0	38.5	5,700
90.0	30.7	7,000	100.0	29.2	5,700	100.0	36.9	5,500
92.0	28.3	6,800	102.0	27.0	5,500	102.0	35.3	5,300
94.0	25.8	6,600	104.0	24.5	5,300	104.0	33.6	5,100
						106.0	31.8	5,000

Refer to notes on page 29.

Supplemental Data - Barge

1. 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).
2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
3. 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.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Must have 69,000 lbs (5) Counterweights fully installed.
 - Must have 31,700 lbs (2) Carbody weights fully installed.
4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
6. 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.
7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	430	Not Applicable			

When auxiliary sheave is used for 8 or 7 reeving parts of line, it is not required to deduct 430 lbs from rated loads.

8. To install the jib is prohibited when the machine is on a barge.
9. The total load that can be lifted over an auxiliary sheave is the value for 430 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 24,000 lbs.

10. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
11. The boom should be erected over the front of the crawlers, not laterally.
12. Least stable position is over the side.
13. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000

No. of Parts of line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

Maximum Load for Auxiliary Sheave

No. of Parts of line	1
Maximum Loads (lbs)	24,000

14. Weight of recommended hook block.

Hook Block	110 t	77 t	55 t	39 t	12 t ball hook
Weight (lbs)	3,815	1,990	1,875	1,545	660

Warning: If the weight of the hook block to be used is light than the recommended weight, the jib may turn over backw or will be difficult to lower the empty hook block.

15. Rated loads listed 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.
16. Designed and rated to comply with ANSI Code B30.5.

CK1100G

SPECIFICATIONS

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

40' Boom					50' Boom					60' Boom							
360° Rated Load (lbs)					360° Rated Load (lbs)					360° Rated Load (lbs)							
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
11.0	80.5	220,000 *				12.0	81.2	213,200 *				13.0	81.7	200,400 *			
12.0	79.0	213,300 *				13.0	80.0	200,600 *				14.0	80.7	187,400 *			
13.0	77.5	200,800 *				14.0	78.9	187,800 *				15.0	79.8	175,200 *			
14.0	76.0	188,100 *				15.0	77.7	175,600 *				16.0	78.8	164,800 *			
15.0	74.6	175,900 *	175,900 *			16.0	76.6	165,300 *				17.0	77.8	155,500 *			
16.0	73.1	165,500 *	165,500 *			17.0	75.4	156,000 *				18.0	76.8	146,900 *			
17.0	71.6	156,300 *	156,300 *	127,700 *		18.0	74.2	147,400 *	143,200 *			19.0	75.9	139,800 *	123,900 *		
18.0	70.1	147,800 *	146,400 *	126,100 *		19.0	72.9	140,100 *	132,200 *			20.0	74.9	132,200 *	118,100 *		
19.0	68.5	140,500 *	134,600 *	122,400 *		20.0	71.7	132,400 *	122,900 *			22.0	72.9	115,100 *	105,300 *		
20.0	66.9	132,800 *	124,900 *	116,500 *	100,300 *	22.0	69.3	115,300 *	106,800 *	98,500 *		24.0	70.9	100,800 *	93,000 *	81,600 *	
22.0	63.7	115,600 *	108,300 *	103,400 *	97,800 *	24.0	66.8	101,000 *	94,400 *	89,500 *	77,800 *	26.0	68.8	89,100 *	83,200 *	78,700 *	
24.0	60.4	101,300 *	95,600 *	92,000 *	88,400 *	26.0	64.3	89,400 *	84,500 *	80,700 *	75,600 *	28.0	66.7	80,500 *	75,300 *	71,600 *	63,000 *
26.0	57.0	89,600 *	85,600 *	82,700 *	79,900 *	28.0	61.7	80,700 *	76,400 *	73,400 *	70,700 *	30.0	64.6	72,800 *	68,700 *	65,700 *	61,500 *
28.0	53.4	80,900 *	77,400 *	75,100 *	72,900 *	30.0	59.1	73,000 *	69,700 *	67,200 *	64,900 *	32.0	62.5	66,600 *	63,200 *	60,600 *	58,400 *
30.0	49.8	73,300 *	70,600 *	68,700 *	67,000 *	32.0	56.3	67,000 *	63,900 *	61,900 *	60,000 *	34.0	60.3	61,600 *	58,400 *	56,200 *	54,400 *
32.0	45.8	67,200 *	64,800 *	63,400 *	62,000 *	34.0	53.4	62,000 *	59,100 *	57,400 *	55,900 *	36.0	58.0	57,300 *	54,200 *	52,400 *	50,800 *
34.0	41.2	61,700 *	60,000 *	58,900 *	57,800 *	36.0	50.3	57,800 *	55,000 *	53,600 *	52,300 *	38.0	55.7	53,100 *	50,600 *	49,100 *	47,700 *
36.0	36.2	56,600 *	55,700 *	54,700 *	53,700 *	38.0	47.3	53,600 *	51,400 *	50,100 *	49,000 *	40.0	53.4	49,300 *	47,500 *	46,100 *	44,900 *
38.0	31.1	51,500 *	51,000 *	49,700 *	48,400 *	40.0	44.0	49,800 *	48,100 *	47,200 *	46,300 *	42.0	50.9	46,600 *	44,600 *	43,500 *	42,400 *
40.0	25.4	45,900 *	44,800 *	43,600 *	42,500 *	42.0	40.4	47,000 *	45,400 *	44,600 *	43,800 *	44.0	48.3	43,800 *	42,100 *	41,100 *	40,200 *
						44.0	36.7	44,300 *	42,900 *	42,200 *	41,500 *	46.0	45.8	41,100 *	39,800 *	38,900 *	38,100 *
						46.0	62.9	41,500 *	40,600 *	40,000 *	39,500 *	48.0	42.8	39,200 *	37,700 *	37,000 *	36,300 *
						48.0	27.6	38,300 *	38,200 *	37,400 *	36,700 *	50.0	39.9	37,200 *	35,900 *	35,300 *	34,800 *
						50.0	22.3	35,100 *	34,800 *	33,900 *		55.0	31.2	32,900 *	31,900 *	31,500 *	31,100 *
												60.0	20.7	28,600 *			
Reeves		8	7	6	4	Reeves		8	6	4	4	Reeves		8	5	4	4
70' Boom					80' Boom					90' Boom							
360° Rated Load (lbs)					360° Rated Load (lbs)					360° Rated Load (lbs)							
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
15.0	81.3	151,000 *				16.0	81.6	151,000 *				17.0	81.9	125,800 *			
16.0	80.4	151,000 *				17.0	80.9	149,300 *				18.0	81.3	125,800 *			
17.0	79.6	149,400 *				18.0	80.2	146,500 *				19.0	80.7	125,800 *			
18.0	78.7	146,700 *				19.0	79.5	139,400 *				20.0	80.0	124,000 *			
19.0	77.9	139,800 *				20.0	78.8	131,800 *				22.0	78.7	112,500 *			
20.0	77.1	132,200 *				22.0	77.3	115,100 *				24.0	77.4	100,800 *			
22.0	75.4	115,400 *				24.0	75.8	101,000 *				26.0	76.1	89,100 *			
24.0	73.7	101,300 *	92,400 *			26.0	74.3	89,200 *	81,800 *			28.0	74.8	80,500 *	73,000 *		
26.0	72.0	89,600 *	82,800 *	68,700 *		28.0	72.8	80,500 *	74,100 *			30.0	73.5	72,800 *	66,900 *		
28.0	70.3	80,800 *	75,000 *	67,400 *		30.0	71.2	72,800 *	67,700 *	58,100 *		32.0	72.1	66,600 *	61,600 *	50,600 *	
30.0	68.5	73,000 *	68,500 *	65,000 *	53,600 *	32.0	69.7	66,600 *	62,200 *	57,100 *	46,400 *	34.0	70.8	61,600 *	56,900 *	49,600 *	
32.0	66.7	67,000 *	63,000 *	60,100 *	51,800 *	34.0	68.2	61,600 *	57,500 *	54,700 *	44,700 *	36.0	69.4	57,300 *	53,000 *	49,000 *	39,900 *
34.0	64.9	62,000 *	58,300 *	55,700 *	49,900 *	36.0	66.6	57,300 *	53,500 *	51,000 *	43,300 *	38.0	68.0	53,100 *	49,500 *	47,000 *	38,500 *
36.0	63.0	57,800 *	54,200 *	52,100 *	47,900 *	38.0	65.1	53,100 *	50,000 *	47,800 *	41,800 *	40.0	66.6	49,300 *	46,300 *	44,200 *	37,600 *
38.0	61.2	53,600 *	50,600 *	48,700 *	45,800 *	40.0	63.5	49,300 *	46,800 *	45,000 *	40,400 *	42.0	65.2	46,500 *	43,600 *	41,700 *	36,400 *
40.0	59.3	49,800 *	47,400 *	45,700 *	43,800 *	42.0	61.8	46,600 *	44,100 *	42,400 *	39,000 *	44.0	63.8	43,700 *	41,100 *	39,500 *	35,400 *
42.0	57.3	46,900 *	44,600 *	43,100 *	41,500 *	44.0	60.2	43,800 *	41,600 *	40,100 *	37,700 *	46.0	62.4	40,900 *	38,900 *	37,400 *	34,300 *
44.0	55.3	44,100 *	42,100 *	40,800 *	39,700 *	46.0	58.5	41,100 *	39,300 *	38,000 *	36,200 *	48.0	60.9	38,900 *	36,900 *	35,600 *	33,200 *
46.0	53.3	41,300 *	39,800 *	38,700 *	37,700 *	48.0	56.8	39,100 *	37,300 *	36,200 *	34,800 *	50.0	59.4	36,900 *	35,100 *	34,000 *	32,000 *
48.0	51.2	39,400 *	37,700 *	36,700 *	35,900 *	50.0	55.1	37,100 *	35,500 *	34,500 *	33,600 *	55.0	55.7	32,500 *	31,200 *	30,300 *	29,200 *
50.0	49.0	37,400 *	35,900 *	35,100 *	34,300 *	55.0	50.5	32,700 *	31,500 *	30,800 *	30,000 *	60.0	51.7	29,000 *	28,100 *	27,400 *	26,600 *
55.0	43.2	33,200 *	32,000 *	31,400 *	30,800 *	60.0	45.7	29,200 *	28,300 *	27,700 *	27,200 *	65.0	47.4	26,100 *	25,400 *	24,800 *	24,200 *
60.0	36.9	29,600 *	28,800 *	28,400 *	28,100 *	65.0	40.4	26,300 *	25,700 *	25,300 *	24,800 *	70.0	42.9	23,800 *	23,100 *	22,700 *	22,200 *
65.0	29.2	26,800 *	26,300 *	26,000 *	25,800 *	70.0	34.3	24,100 *	23,400 *	23,100 *	22,800 *	75.0	37.9	21,800 *	21,200 *	20,800 *	20,500 *
						75.0	26.9	22,100 *	21,500 *	21,300 *	21,100 *	80.0	32.2	20,100 *	19,600 *	19,300 *	19,100 *
												85.0	25.7	18,600 *	18,300 *	18,100 *	17,900 *
Reeves		6	4	4	4	Reeves		6	4	4	2	Reeves		5	4	4	2

Refer to notes on page 32.

CK1100G SPECIFICATIONS

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

100' Boom						110' Boom						120' Boom					
360° Rated Load (lbs)						360° Rated Load (lbs)						360° Rated Load (lbs)					
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
19.0	81.6	125,600 *				20.0	81.8	100,800 *				22.0	81.6	98,700 *			
20.0	81.0	123,600 *				22.0	80.8	100,800 *				24.0	80.6	94,200 *			
22.0	79.9	112,200 *				24.0	79.7	96,500 *				26.0	79.6	88,000 *			
24.0	78.7	100,600				26.0	78.6	88,500 *				28.0	78.6	79,900			
26.0	77.5	88,900				28.0	77.6	80,200				30.0	77.7	72,200			
28.0	76.3	80,200				30.0	76.5	72,400				32.0	76.7	66,100			
30.0	75.1	72,400				32.0	75.4	66,300				34.0	75.7	61,100	53,000 *		
32.0	74.0	66,300	60,800			34.0	74.3	61,300	55,900 *			36.0	74.7	56,800	51,300		
34.0	72.8	61,300	56,300			36.0	73.2	57,000	51,900			38.0	73.7	52,500	47,900		
36.0	71.6	57,000	52,300	43,500 *		38.0	72.2	52,700	48,600			40.0	72.7	48,700	45,000	33,900 *	
38.0	70.3	52,700	48,900	42,900 *		40.0	71.1	48,900	45,500	37,900 *		42.0	71.7	45,800	42,200	33,400 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *	42.0	70.0	46,200	42,900	37,500 *		44.0	70.7	43,000	39,800	33,000 *	
42.0	67.9	46,200	43,100	40,900 *	33,500 *	44.0	68.9	43,400	40,400	37,000 *	28,900 *	46.0	69.7	40,200	37,600	32,800 *	
44.0	66.6	43,400	40,700	38,800	32,500 *	46.0	67.8	40,700	38,200	36,200 *	28,600 *	48.0	68.6	38,300	35,600	32,300 *	
46.0	65.4	40,700	38,500	36,800	31,700 *	48.0	66.6	38,700	36,300	34,600	28,200 *	50.0	67.6	36,300	34,000	31,700 *	24,800 *
48.0	64.1	38,700	36,500	35,000	30,900 *	50.0	65.4	36,600	34,500	32,900	27,900 *	55.0	65.0	32,000	30,200	28,900	24,300 *
50.0	62.8	36,600	34,700	33,400	30,000 *	55.0	62.5	32,300	30,500	29,400	27,200 *	60.0	62.3	28,300	27,100	26,000	23,600 *
55.0	59.5	32,300	30,800	29,700	27,800 *	60.0	59.5	28,700	27,400	26,400	25,500	65.0	59.6	25,400	24,400	23,500	22,700
60.0	56.1	28,700	27,500	26,700	25,500	65.0	56.5	25,900	24,700	23,900	23,100	70.0	56.8	23,200	22,200	21,400	20,800
65.0	52.5	25,900	24,900	24,300	23,600	70.0	53.2	23,500	22,500	21,800	21,200	75.0	53.8	21,200	20,300	19,700	19,100
70.0	48.8	23,500	22,700	22,100	21,500	75.0	49.9	21,400	20,600	20,000	19,500	80.0	50.8	19,400	18,600	18,100	17,600
75.0	44.8	21,400	20,700	20,300	20,000	80.0	46.4	19,600	19,000	18,600	18,200	85.0	47.7	17,700	17,200	16,700	16,300
80.0	40.5	19,600	19,200	18,800	18,500	85.0	42.6	18,100	17,700	17,300	17,000	90.0	44.3	16,500	15,900	15,600	15,300
85.0	36.0	18,100	17,700	17,500	17,200	90.0	38.6	16,800	16,400	16,100	15,700	95.0	40.7	15,300	14,800	14,500	14,300
90.0	30.5	16,900	16,500	16,300	16,100	95.0	34.1	15,600	15,200	15,000	14,800	100.0	36.9	14,200	13,800	13,600	13,400
95.0	24.0	15,800	15,400	15,300	15,100	100.0	29.1	14,600	14,300	14,200	14,000	110.0	27.8	12,600	12,200	12,000	11,900
						105.0	23.2	13,770	13,500	13,300		115.0	22.2	11,840	11,500		
Reeves		5	4	2	2	Reeves		4	4	2	2	Reeves		4	4	2	2
130' Boom						140' Boom						150' Boom					
360° Rated Load (lbs)						360° Rated Load (lbs)						360° Rated Load (lbs)					
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
24.0	81.3	85,100 *				24.0	81.9	72,900 *				26.0	81.7	62,200 *			
26.0	80.4	83,900 *				26.0	81.1	71,800 *				28.0	80.9	61,300 *			
28.0	79.5	78,200 *				28.0	80.3	70,800 *				30.0	80.1	60,400 *			
30.0	78.6	71,900				30.0	79.4	69,000 *				32.0	79.4	59,400 *			
32.0	77.7	65,900				32.0	78.6	64,700 *				34.0	78.6	57,200 *			
34.0	76.9	60,900				34.0	77.8	60,500				36.0	77.8	54,100 *			
36.0	75.9	56,600				36.0	76.9	56,200				38.0	77.0	51,000 *			
38.0	75.0	52,300	46,400 *			38.0	76.1	52,000				40.0	76.3	48,000			
40.0	74.1	48,400	44,500			40.0	75.2	48,200	41,500 *			42.0	75.5	45,200	37,100 *		
42.0	73.2	45,600	41,700			42.0	74.4	45,400	40,600 *			44.0	74.7	42,400	36,600 *		
44.0	72.2	42,800	39,400	29,700 *		44.0	73.5	42,600	38,900			46.0	73.9	39,600	35,800 *		
46.0	71.3	40,000	37,200	29,400 *		46.0	72.7	39,800	36,800			48.0	73.1	37,500	34,500		
48.0	70.4	38,000	35,300	29,100 *		48.0	71.8	37,800	34,900			50.0	72.3	35,500	32,800	23,300 *	
50.0	69.4	36,000	33,600	28,700 *		50.0	71.0	35,800	33,200			55.0	70.3	31,200	29,000	22,700 *	
55.0	67.1	31,600	29,700	27,900 *	21,700 *	55.0	68.8	31,400	29,400	25,100 *	19,200 *	60.0	68.2	27,600	25,800	22,000 *	16,800 *
60.0	64.6	28,100	26,600	25,500	21,200 *	60.0	66.6	27,800	26,200	24,500 *	18,700 *	65.0	66.2	24,800	23,300	21,600 *	16,500 *
65.0	62.2	25,200	24,100	23,100	20,700 *	65.0	64.3	25,000	23,500	22,400 *	18,300 *	70.0	64.0	22,400	21,100	20,100 *	16,100 *
70.0	59.6	22,900	21,900	21,100	20,000 *	70.0	62.0	22,600	21,300	20,500	17,900 *	75.0	61.9	20,300	19,200	18,300	15,700 *
75.0	57.0	20,900	20,000	19,300	18,700	75.0	59.7	20,500	19,500	18,700	17,400 *	80.0	59.6	18,500	17,600	17,000	15,400 *
80.0	54.3	19,000	18,300	17,700	17,200	80.0	57.3	18,700	17,800	17,200	16,600	85.0	57.4	17,000	16,200	15,500	14,900 *
85.0	51.6	17,500	16,900	16,400	16,000	85.0	54.8	17,200	16,400	15,800	15,400	90.0	55.2	15,700	14,900	14,400	14,000
90.0	48.7	16,100	15,700	15,300	14,900	90.0	52.2	15,900	15,200	14,700	14,300	95.0	52.8	14,400	13,800	13,300	13,000
95.0	45.6	15,000	14,600	14,200	13,900	95.0	49.5	14,600	14,100	13,700	13,300	100.0	50.3	13,400	12,800	12,500	12,100
100.0	42.4	14,000	13,600	13,300	13,000	100.0	46.8	13,600	13,100	12,800	12,500	110.0	45.1	11,700	11,200	10,900	10,700
110.0	35.4	12,100	11,900	11,700	11,600	110.0	40.8	11,900	11,400	11,200	11,000	120.0	39.3	10,300	9,900	9,600	9,400
120.0	26.6	10,800	10,600	10,500	10,400	120.0	34.0	10,300	10,100	9,900	9,800	130.0	32.8	8,900	8,800	8,600	8,400
125.0	21.3	10,230	9,900			130.0	25.7	9,200	9,100	8,900	8,800	140.0	24.3	8,000	7,800	7,700	7,600
						135.0	20.5	8,830									
Reeves		4	2	2	2	Reeves		4	2	2	2	Reeves		4	2	2	2

Refer to notes on page 32.

CK1100G

SPECIFICATIONS

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

160' Boom						170' Boom						180' Boom					
360° Rated Load (lbs)						360° Rated Load (lbs)						360° Rated Load (lbs)					
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
28.0	81.5	50,200 *				30.0	81.3	44,500 *				30.0	81.8	39,300 *			
30.0	80.8	50,100 *				32.0	80.7	43,900 *				32.0	81.2	38,800 *			
32.0	80.1	49,700 *				34.0	80.0	43,200 *				34.0	80.5	38,200 *			
34.0	79.4	49,200 *				36.0	79.3	42,500 *				36.0	79.9	37,600 *			
36.0	78.6	48,500 *				38.0	78.6	41,900 *				38.0	79.2	37,000 *			
38.0	77.9	47,800 *				40.0	77.9	41,200 *				40.0	78.6	36,400 *			
40.0	77.2	46,600 *				42.0	77.2	40,600 *				42.0	77.9	35,800 *			
42.0	76.4	44,300 *				44.0	76.5	40,000 *				44.0	77.2	35,100 *			
44.0	75.6	42,100 *	32,200 *			46.0	75.8	39,300 *				46.0	76.6	34,500 *			
46.0	74.9	39,800	31,700 *			48.0	75.1	37,400 *	28,400 *			48.0	75.9	33,900 *			
48.0	74.1	37,800	31,300 *			50.0	74.4	35,400 *	28,100 *			50.0	75.3	33,300 *			
50.0	73.4	35,800	31,000 *			55.0	72.6	31,200	27,100 *	17,700 *		55.0	73.7	30,800 *	24,200 *		
55.0	71.5	31,400	28,900 *	20,000 *		60.0	70.9	27,600	25,400 *	17,300 *		60.0	72.0	27,400	22,900 *	15,300 *	
60.0	69.6	27,800	26,000	19,300 *		65.0	69.1	24,600	23,000	16,900 *		65.0	70.3	24,400	21,800 *	15,100 *	
65.0	67.7	25,000	23,400	18,900 *	14,400 *	70.0	67.3	22,300	20,900	16,400 *	12,400 *	70.0	68.6	21,900	20,400 *	14,600 *	10,800 *
70.0	65.8	22,600	21,200	18,500 *	14,000 *	75.0	65.4	20,300	19,000	16,000 *	12,200 *	75.0	66.9	19,900	18,700	14,200 *	10,600 *
75.0	63.8	20,500	19,300	18,000 *	13,700 *	80.0	63.5	18,500	17,400	15,600 *	11,800 *	80.0	65.2	18,100	17,100	13,800 *	10,400 *
80.0	61.8	18,700	17,700	16,900	13,400 *	85.0	61.6	16,800	16,000	15,300 *	11,500 *	85.0	63.4	16,600	15,700	13,500 *	10,000 *
85.0	59.7	17,000	16,300	15,600	13,100 *	90.0	59.7	15,400	14,700	14,000	11,300 *	90.0	61.6	15,200	14,400	12,900 *	9,700 *
90.0	57.6	15,700	15,000	14,300	12,800 *	95.0	57.8	14,300	13,600	13,200	11,100 *	95.0	59.8	14,000	13,200	12,200 *	9,500 *
95.0	55.4	14,500	13,900	13,500	12,400 *	100.0	55.8	13,300	12,600	12,100	10,800 *	100.0	57.9	12,900	12,300	11,600 *	9,300 *
100.0	53.2	13,500	12,900	12,400	12,000	110.0	51.5	11,500	10,900	10,600	10,100 *	110.0	54.0	11,100	10,600	10,300	8,500 *
110.0	48.6	11,700	11,100	10,900	10,600	120.0	47.0	9,800	9,600	9,300	9,000	120.0	49.9	9,600	9,100	8,800	7,700 *
120.0	43.6	10,100	9,800	9,600	9,300	130.0	42.2	8,700	8,400	8,200	8,000	130.0	45.6	8,500	8,000	7,700	6,900 *
130.0	38.1	8,900	8,600	8,500	8,300	140.0	36.8	7,700	7,300	7,100	7,000	140.0	40.9	7,400	7,000	6,900	6,000 *
140.0	31.6	7,900	7,800	7,600	7,500	150.0	30.5	6,800	6,500	6,400	6,200 *	150.0	35.7	6,500	6,200	6,000	5,000 *
150.0	23.7	7,100	6,900	6,800	6,700	160.0	23.2	5,900	5,800 *	5,800 *	5,100 *	160.0	29.7	5,600	5,400	5,000 *	4,200 *
						165.0	26.5	5,100	5,100	5,100	5,100	165.0	26.5	5,100	5,100	4,400 *	3,600 *
Reeves	2		2	2	2	Reeves	2	2	2	2		Reeves	2	2	2	2	
190' Boom						200' Boom											
360° Rated Load (lbs)						360° Rated Load (lbs)											
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List						
32.0	81.6	34,400 *				34.0	81.5	30,300 *									
34.0	81.0	33,800 *				36.0	80.9	29,700 *									
36.0	80.4	33,300 *				38.0	80.3	29,200 *									
38.0	79.8	32,700 *				40.0	79.7	28,700 *									
40.0	79.2	32,200 *				42.0	79.1	28,200 *									
42.0	78.6	31,700 *				44.0	78.6	27,700 *									
44.0	78.0	31,100 *				46.0	78.0	27,300 *									
46.0	77.4	30,600 *				48.0	77.4	26,800 *									
48.0	76.7	30,100 *				50.0	76.8	26,300 *									
50.0	76.1	29,600 *				55.0	75.3	24,900 *									
55.0	74.5	28,100 *	21,700 *			60.0	73.8	23,200 *	18,200 *								
60.0	73.0	26,200 *	20,600 *			65.0	72.4	21,500 *	17,100 *	11,700 *							
65.0	71.4	24,000 *	19,500 *	13,300 *		70.0	70.9	20,000 *	16,100 *	11,300 *							
70.0	69.8	21,800	18,400 *	13,100 *		75.0	69.3	18,500 *	15,100 *	11,000 *							
75.0	68.2	19,900	17,300 *	12,700 *	9,200 *	80.0	67.8	17,100 *	14,100 *	10,600 *	7,700 *						
80.0	66.5	18,000	16,200 *	12,400 *	9,000 *	85.0	66.2	15,900 *	13,300 *	10,100 *	7,500 *						
85.0	64.9	16,400	15,300 *	11,900 *	8,800 *	90.0	64.6	14,700	12,400 *	9,500 *	7,200 *						
90.0	63.2	15,000	14,100	11,300 *	8,600 *	95.0	63.0	13,500	11,700 *	9,000 *	7,000 *						
95.0	61.5	13,900	13,000	10,600 *	8,400 *	100.0	61.4	12,400	11,000 *	8,400 *	6,800 *						
100.0	59.7	12,900	12,000	10,000 *	8,200 *	110.0	58.1	10,600	9,500 *	7,400 *	6,000 *						
110.0	56.2	11,000	10,400	8,900 *	7,400 *	120.0	54.6	9,200	8,200 *	6,500 *	5,200 *						
120.0	52.5	9,400	9,100	7,900 *	6,500 *	130.0	51.1	7,800	7,100 *	5,600 *	4,500 *						
130.0	48.5	8,200	7,800	6,800 *	5,700 *	140.0	47.2	6,500	5,900 *	4,600 *	3,700 *						
140.0	44.3	7,200	6,800	5,900 *	4,900 *	150.0	43.1	5,200 *	4,900 *	3,700 *	3,100 *						
150.0	39.7	6,300	5,900	5,100 *	4,100 *	155.0	41.0	4,650 *	4,400 *	3,500 *							
160.0	34.8	5,300	5,100 *	4,000 *	3,400 *												
165.0	32.1	4,650	4,600 *	3,600 *													
Reeves	2		2	2	2	Reeves	2	2	2	2							

Refer to notes on page 32.

WMA
SALE & RENTAL

Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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Preliminary

Hydraulic Crawler Crane

CK

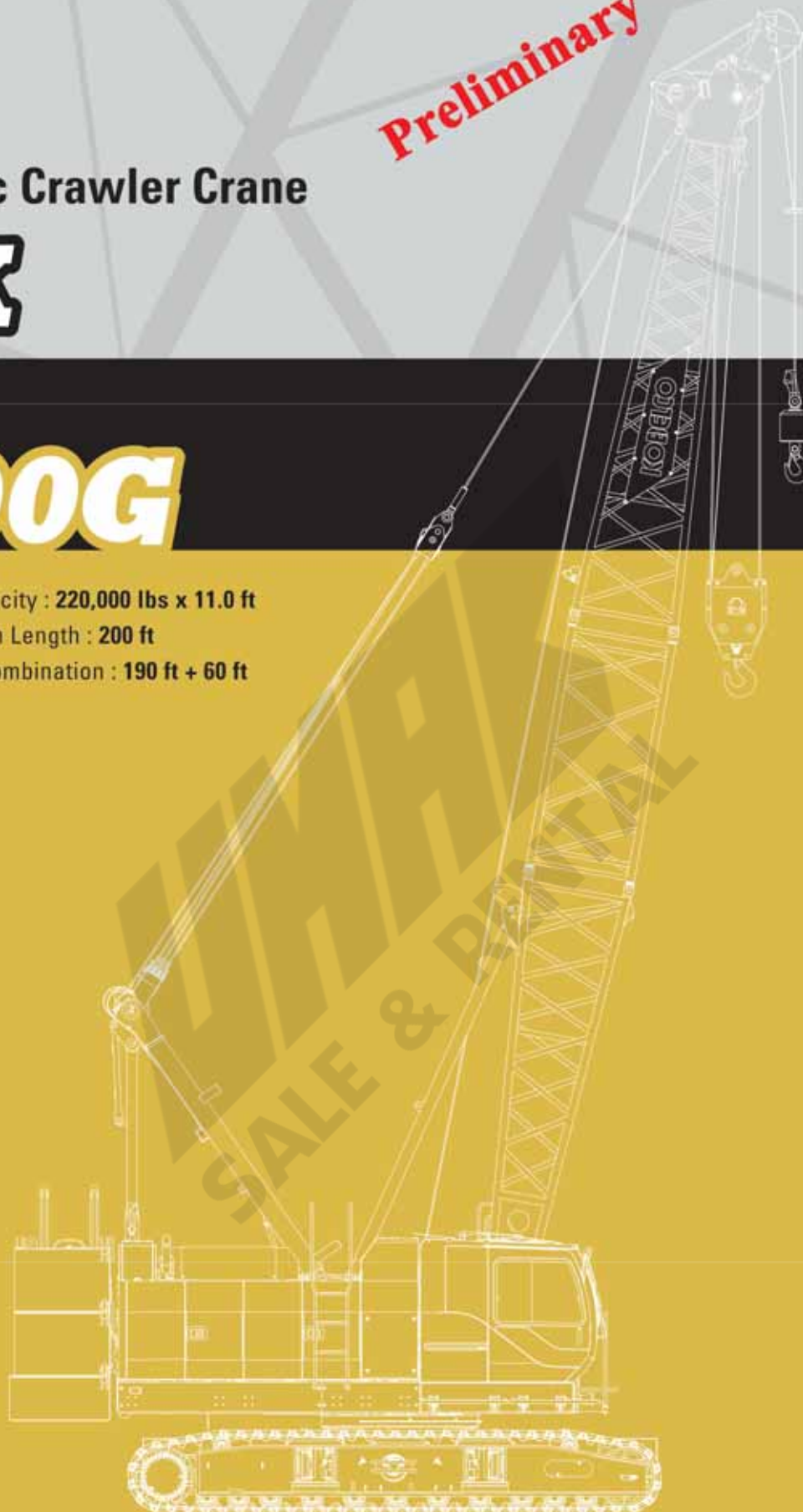
1100G

Model : CK1100G

Max. Lifting Capacity : 220,000 lbs x 11.0 ft

Max. Crane Boom Length : 200 ft

Max. Fixed Jib Combination : 190 ft + 60 ft



KOBELCO

UMAX
SALE & RENTAL

CK1100G CONTENTS

3

SPECIFICATIONS

5

GENERAL DIMENSIONS

6

BOOM AND JIB ARRANGEMENTS

7

WORKING RANGES

10

SUPPLEMENTAL DATA

11

LIFTING CAPACITY

19

TRANSPORTATION PLAN

21

PARTS AND ATTACHMENTS

SPECIFICATIONS



Power Plant

Model: HINO J08E-UV

Type: 4 cycle, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler

Complies with US EPA Tier Interim Tier IV and NRMM (Europe) Stage IIIB

Displacement: 469 cu in (7.684 liters)

Rated Power: 285 HP/2,100 rpm (213 kW/2,100 min⁻¹)

Max. torque: 750 lbf-ft / 1,600 rpm (1,017 N-m/1,600 min⁻¹)

Cooling system: Water-cooled

Starter: 24V-5kW

Radiator: Corrugated type core, thermostatically controlled

Air cleaner: Dry type with replaceable paper element

Throttle: Twist grip type hand throttle, electrically actuated

Fuel filter: Replaceable paper element

Batteries: Two 12V x 136 Ah/5HR capacity batteries, series connected

Fuel tank capacity: 106 US gal. (400 liters)



Hydraulic System

Main pumps: 3 variable displacement piston pumps

Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)

Filtration: Full-flow and bypass type with replaceable element

Electrical system: All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure:

Load hoist, boom hoist and propel system:

4,626 psi (31.9 MPa)

Swing system: 3,989 psi (27.5 MPa)

Control system: 783 psi (5.4 MPa)

Hydraulic tank capacity: 116.2 US gal. (440 liters)



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.

Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.

Drum lock: External ratchet for locking drum

Drum: Single drum, grooved for 5/8 inch (16 mm) dia. wire rope

Line speed: Single line on first drum layer

Hoisting/Lowering: 230 to 6.6 ft/min (70 to 2 m/min)

Diameter of wire rope

Main winch: 1-1/32 in. x 771 ft. (26 mm x 240 m)

Aux. winch: 1-1/32 in. x 525 ft. (26 mm x 165 m)

Third winch: 7/8 in. x 476 ft. (22 mm x 145 m)

Boom hoisting/lowering: 5/8 in. x 492 ft (16 mm x 150 m)

Boom guy line: 1-3/16 in. (30 mm)

Boom backstops: Required for all boom length



Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.

Negative brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)

Drum lock: External ratchet for locking drum

Drums:

Front drums:

2 ft 3/16 inch (614 mm) P.C.D x 2 ft 9/32 inch (617 mm) Lg., grooved for 1-1/32 inch (26 mm) wire rope. Rope capacity is 771 ft (240 m) working length and 1,181 ft (360 m) storage length.

Rear drums:

2 ft 3/16 inch (614 mm) P.C.D x 2 ft 9/32 inch (617 mm) Lg., grooved for 1-1/32 inch (26 mm) wire rope. Rope capacity is 525 ft (160 m) working length and 1,181 ft (360 m) storage length.

Line speed: Single line on the first layer

Hoisting/Lowering: 394 to 10 ft

Line pull:

Max. line pull (Single line): 46,800 lbs (208 kN)

Rated line pull: 25,200 lbs (112 kN)



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 set), the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation

Swing speed: 4.0 rpm (min⁻¹)



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.

Counter weight: 69,000 lbs



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, shoe tray, and foot acceleration pedal.

Controls:

Four adjustable levers for front drum, rear drum, boom drum and swing controls.

**Lower Structure**

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track adjusting bearing block.

Carbodyweight: 31,700 lbs

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 3 ft wide each crawler

Max. gradeability: 40%

**Weight**

Including upper and lower machine, 69,000 lbs counterweight and 31,700 lbs carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 198,500 lbs (90.1 t)

Ground pressure: 12.9 psi (101 kPa)

**Attachment****Boom and Jib:**

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Boom and Jib Length

	Min. Length (Min. Combination)	Max. Length (Max. Combination)
Crane Boom	40 ft	200 ft
Fixed Jib	80 ft + 30 ft	190 ft + 60 ft

Main Specifications (Model: CK1100G)

Crane Boom	
Max. Lifting Capacity	220,000 lbs
Length	40 ~ 200 ft
Fixed Jib	
Max. Lifting Capacity	24,000 lbs
Max. Length	60 ft
Max. Combination	190 ft + 60 ft
Power Plant	
Model	HINO J08E-UV
Engine Output	285 HP/2,100 rpm
Fuel Tank Capacity	106 US gal. (400 liters)
Main & Aux. Winch	
Max. Line Speed	390 ft/min (120 m/min): 1st layer
Rated Line Pull (single Line)	25,200 lbs (112 kN)
Wire Rope Diameter	1-1/32 in (26 mm)
Brake Type	Spring set hydraulically released (Negative)

Working Speed

Swing Speed	4.0 rpm (min ⁻¹)
Travel Speed	1.07/0.71 mph

Hydraulic System

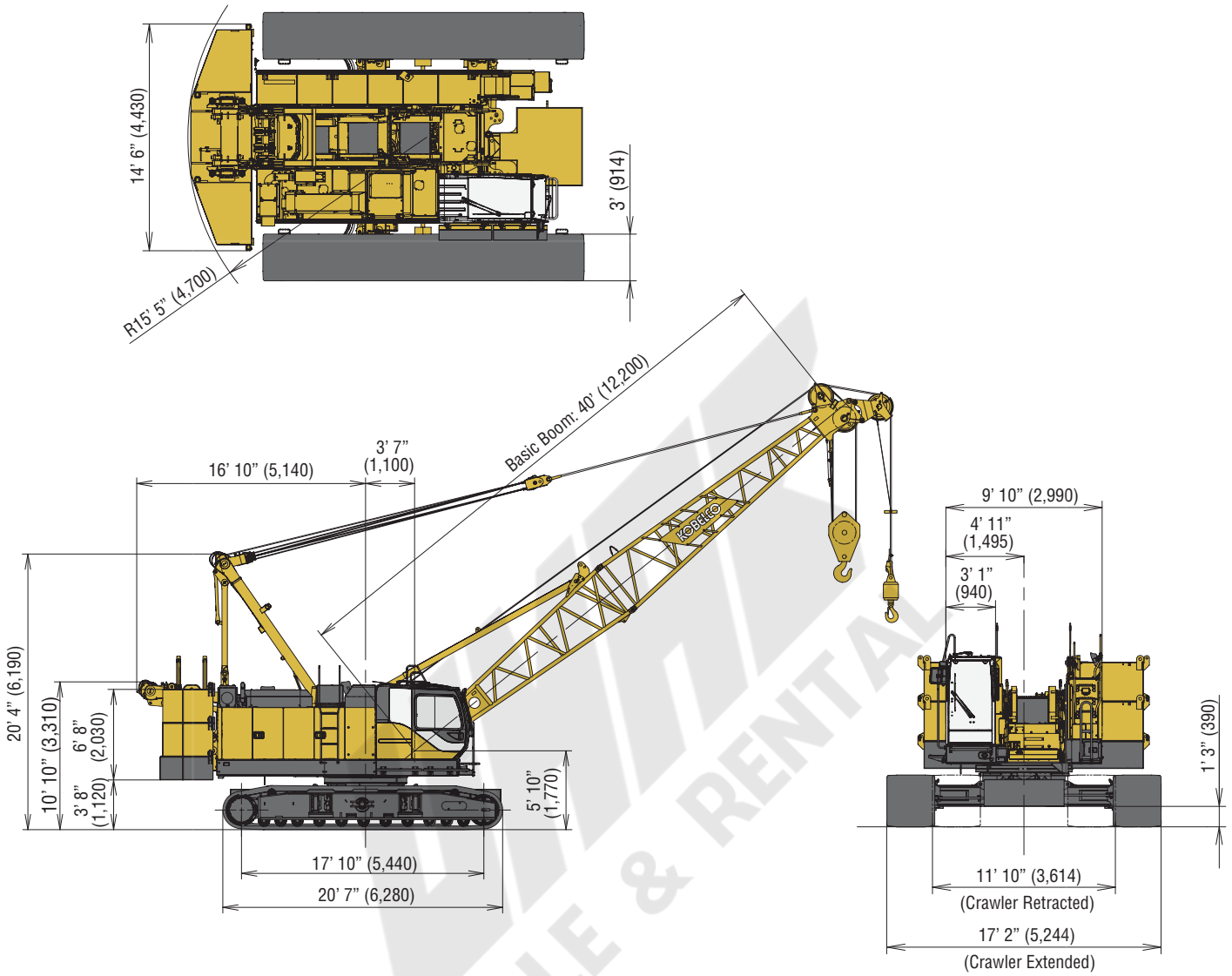
Main pumps	3 variable displacement
Max. Pressure	4,626 psi (31.9 MPa)
Hydraulic Tank Capacity	116.2 US gal. (440 liters)

Weight

Operating Weight	198,500 lbs (90.1 t)
Ground Pressure	12.9 psi (101 kPa)
Counterweight	69,000 lbs
Transport Weight	95,128 lbs

GENERAL DIMENSIONS

Unit: ft-in (mm)



BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

Boom length ft (m)	Boom arrangement
40 (12.2)	
50 (15.2)	
60 (18.3)	※
70 (21.3)	※
80 (24.4)	※
90 (27.4)	※
100 (30.5)	※
110 (33.5)	※
120 (36.6)	※
130 (39.6)	※
140 (42.7)	※

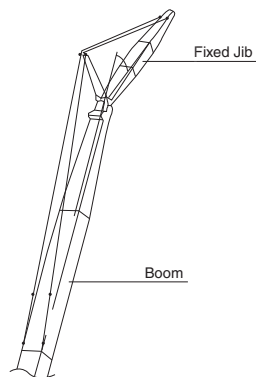
Boom length ft (m)	Boom arrangement
150 (45.7)	※
160 (48.8)	※
170 (51.8)	※
180 (54.9)	※
190 (57.9)	※
200 (61.0)	※

Symbol	Boom Length	Remarks
	20.0 ft (6.1 m)	Boom Base
	20.0 ft (6.1 m)	Boom Top
	10.0 ft (3.1 m)	Insert Boom
	20.0 ft (6.1 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom with lug

↗ mark shows the guy line installing position when the fixed jib is used.

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

Fixed Jib Arrangements

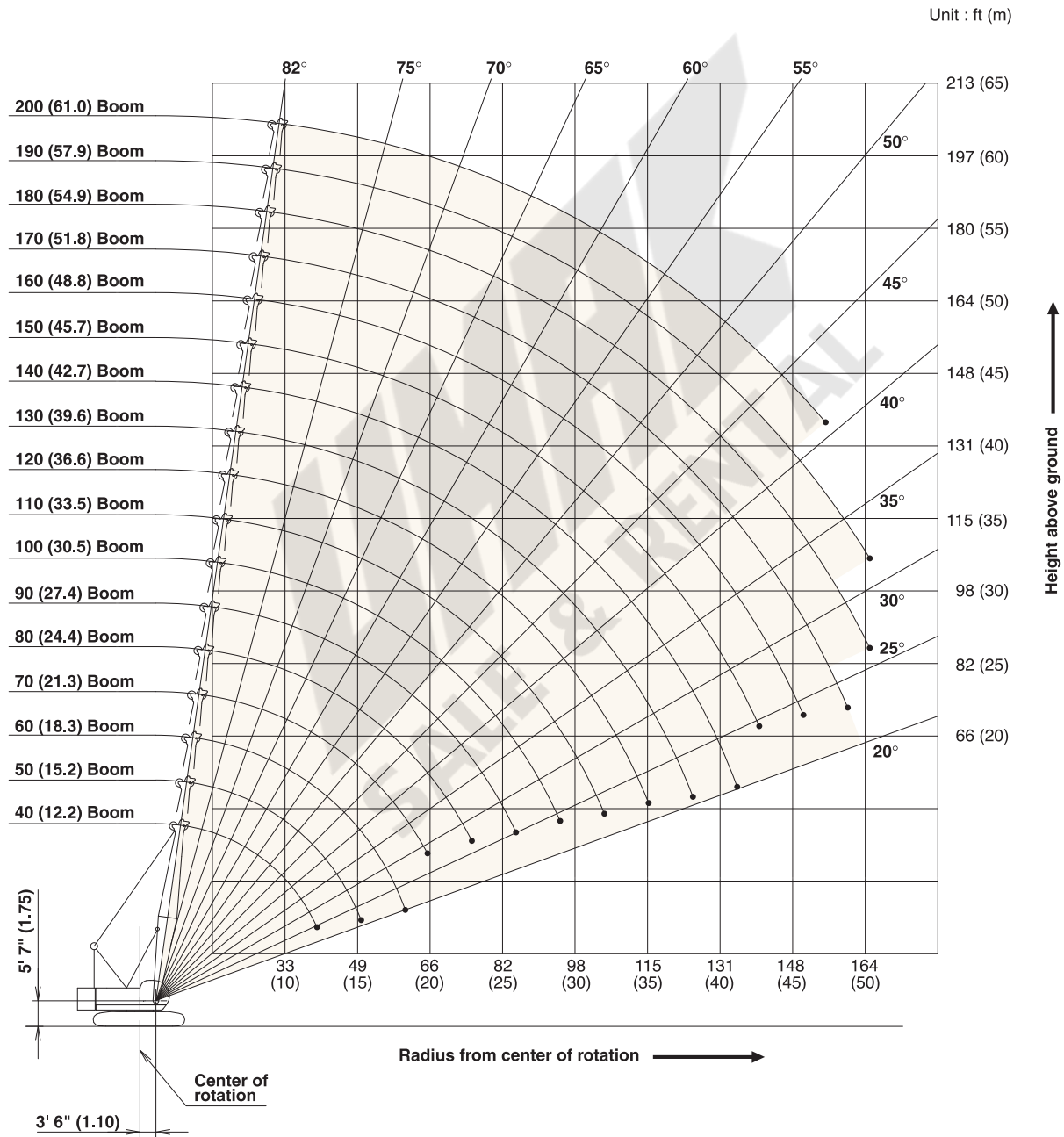


Crane boom length	Jib length ft (m)	Jib arrangement
80 ft (24.4 m) } 190 ft (57.9 m)	30 (9.1)	
	40 (12.2)	
	50 (15.2)	
	60 (18.3)	

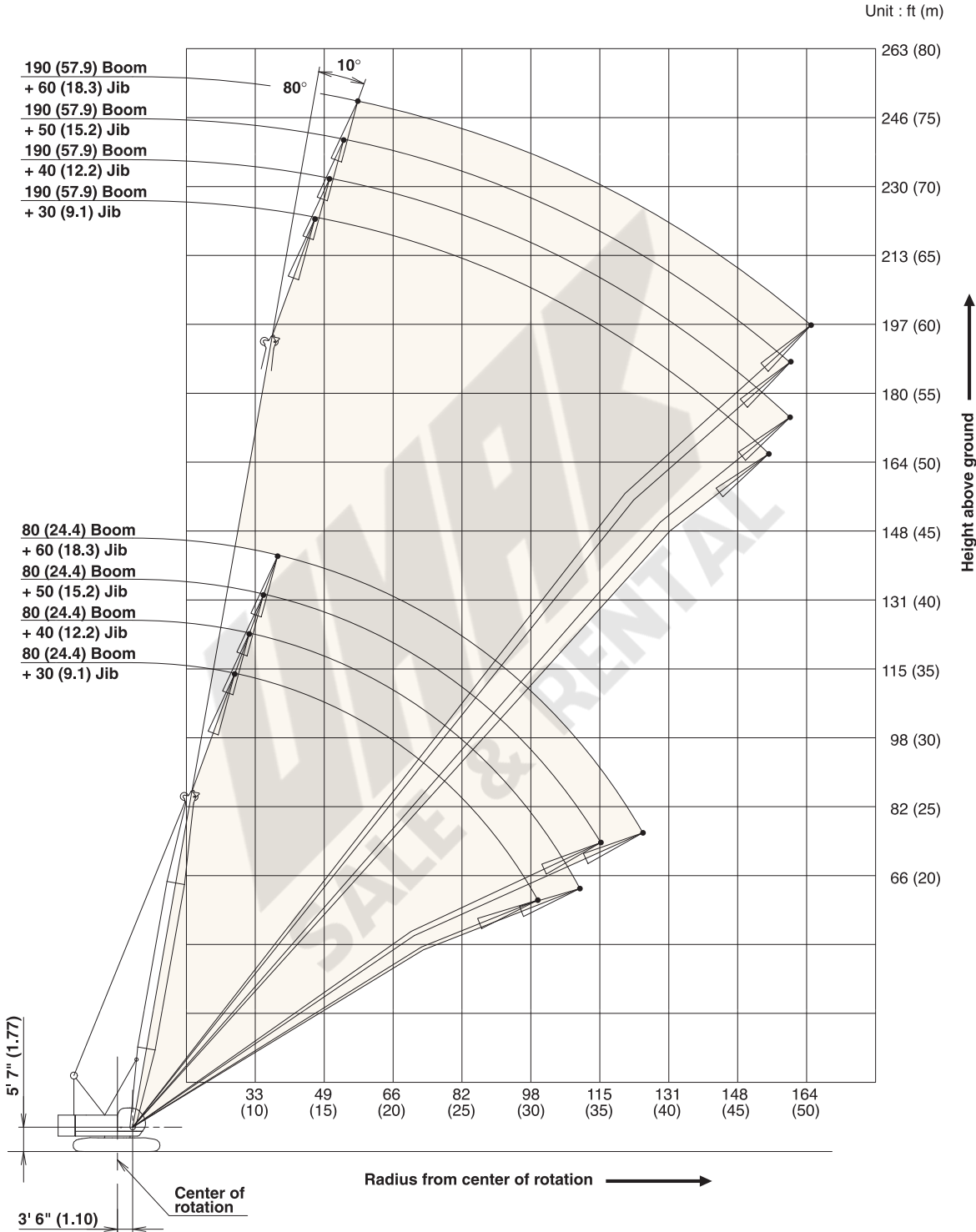
Symbol	Jib Length	Remarks
	15 ft (4.6 m)	Jib Base
	15 ft (4.6 m)	Jib Top
	10 ft (3.0 m)	Insert Jib
	20 ft (6.1 m)	Insert Jib

WORKING RANGES

Main Boom

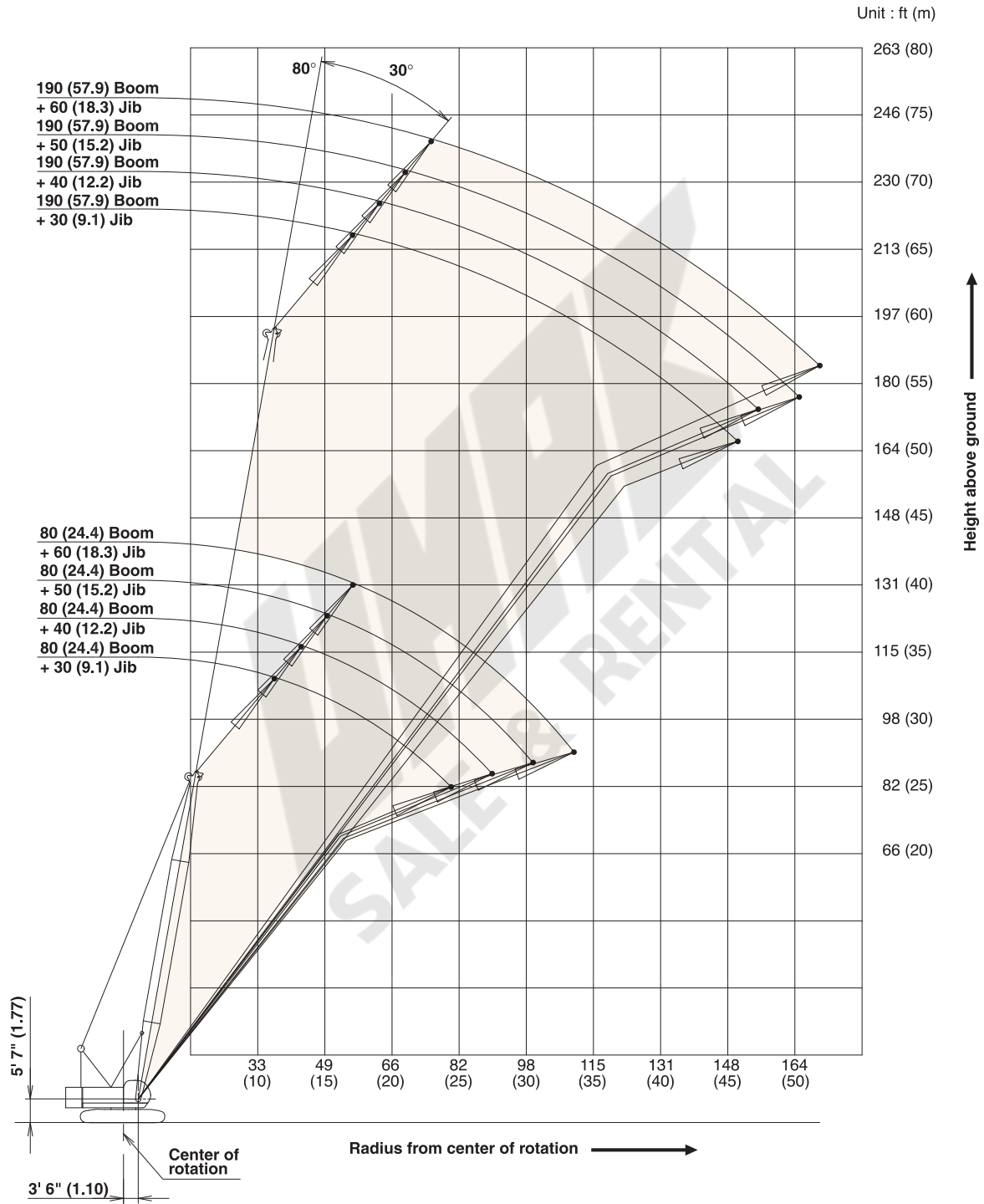


Fixed Jib 10°



WORKING RANGES

Fixed Jib 30°



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).
- Rated loads do not exceed 75% of minimum tipping loads. Rated loads 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.
 - Crawlers must be fully extended and be locked in position.
 - The crane must be leveled to within 1% on a firm supporting surface.
- Do not attempt to lift where no ratings are shown 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.
- When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib length	Aux.	30'	40'	50'	60'
Deduct (lbs)	420	2,500	3,700	5,100	6,700

- The total load that can be lifted over a jib is limited by rated jib loads.
- Boom lengths for jib mounting are 80 ft (24.4 m) to 190 ft (57.9 m).
- The total load that can be lifted over an auxiliary sheave is the value for 420 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 24,000 lbs.

- Boom lengths that can attach auxiliary sheave are from 40 ft (12.2m) to 190 ft (57.9m).
- The boom should be erected over the front of the crawlers, not laterally. When erecting and lowering the boom at length of 190 ft (57.9m) with jib, the blocks for erection must be placed at the end of the crawlers.
- Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Main Boom Hoist Loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000

No. of Parts of Line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

Jib Hoist Loads

No. of Parts of Line	1
Maximum Loads (lbs)	24,000

Auxiliary Hoist Loads

No. of Parts of Line	1
Maximum Loads (lbs)	24,000

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

LIFTING CAPACITY



Crane Boom Lifting Capacity

Unit: lbs

Counterweight: 69,000 lbs, Carbody weight: 31,700 lbs

40' Boom			50' Boom			60' Boom			70' Boom			80' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
11.0	80.5	220,000 *	12.0	81.2	213,200 *	13.0	81.7	200,400 *	15.0	81.3	151,000 *	16.0	81.6	151,000 *
12.0	79.0	213,300 *	13.0	80.0	200,600 *	14.0	80.7	187,400 *	16.0	80.4	151,000 *	17.0	80.9	149,300 *
13.0	77.5	200,800 *	14.0	78.9	187,800 *	15.0	79.8	175,200 *	17.0	79.6	149,400 *	18.0	80.2	146,500 *
14.0	76.0	188,100 *	15.0	77.7	175,600 *	16.0	78.8	164,800 *	18.0	78.7	146,700 *	19.0	79.5	139,400 *
15.0	74.6	175,900 *	16.0	76.6	165,300 *	17.0	77.8	155,500 *	19.0	77.9	139,800 *	20.0	78.8	131,800
16.0	73.1	165,500 *	17.0	75.4	156,000 *	18.0	76.8	146,900 *	20.0	77.1	132,200	22.0	77.3	115,100
17.0	71.6	156,300 *	18.0	74.2	147,400 *	19.0	75.9	139,800 *	22.0	75.4	115,400	24.0	75.8	101,000
18.0	70.1	147,800 *	19.0	72.9	140,100 *	20.0	74.9	132,200	24.0	73.7	101,300	26.0	74.3	89,200
19.0	68.5	140,500 *	20.0	71.7	132,400	22.0	72.9	115,100	26.0	72.0	89,600	28.0	72.8	80,500
20.0	66.9	132,800	22.0	69.3	115,300	24.0	70.9	100,800	28.0	70.3	80,800	30.0	71.2	72,800
22.0	63.7	115,600	24.0	66.8	101,000	26.0	68.8	89,100	30.0	68.5	73,000	32.0	69.7	66,600
24.0	60.4	101,300	26.0	64.3	89,400	28.0	66.7	80,500	32.0	66.7	67,000	34.0	68.2	61,600
26.0	57.0	89,600	28.0	61.7	80,700	30.0	64.6	72,800	34.0	64.9	62,000	36.0	66.6	57,300
28.0	53.4	80,900	30.0	59.1	73,000	32.0	62.5	66,600	36.0	63.0	57,800	38.0	65.1	53,100
30.0	49.8	73,300	32.0	56.3	67,000	34.0	60.3	61,600	38.0	61.2	53,600	40.0	63.5	49,300
32.0	45.8	67,200	34.0	53.4	62,000	36.0	58.0	57,300	40.0	59.3	49,800	42.0	61.8	46,600
34.0	41.2	61,700	36.0	50.3	57,800	38.0	55.7	53,100	42.0	57.3	46,900	44.0	60.2	43,800
36.0	36.2	56,600	38.0	47.3	53,600	40.0	53.4	49,300	44.0	55.3	44,100	46.0	58.5	41,100
38.0	31.1	51,500	40.0	44.0	49,800	42.0	50.9	46,600	46.0	53.3	41,300	48.0	56.8	39,100
40.0	25.4	45,900 *	42.0	40.4	47,000	44.0	48.3	43,800	48.0	51.2	39,400	50.0	55.1	37,100
			44.0	36.7	44,300	46.0	45.8	41,100	50.0	49.0	37,400	55.0	50.5	32,700
			46.0	32.9	41,500	48.0	42.8	39,200	55.0	43.2	33,200	60.0	45.7	29,200
			48.0	27.6	38,300	50.0	39.9	37,200	60.0	36.9	29,600	65.0	40.4	26,300
			50.0	22.3	35,100	55.0	31.2	32,900	65.0	29.2	26,800	70.0	34.3	24,100
						60.0	20.7	28,600 *				75.0	26.9	22,100
Reeves	8		Reeves	8		Reeves	8		Reeves	6		Reeves	6	
90' Boom			100' Boom			110' Boom			120' Boom			130' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
17.0	81.9	125,800 *	19.0	81.6	125,600 *	20.0	81.8	100,800 *	22.0	81.6	98,700 *	24.0	81.3	85,100 *
18.0	81.3	125,800 *	20.0	81.0	123,600 *	22.0	80.8	100,800 *	24.0	80.6	94,200 *	26.0	80.4	83,900 *
19.0	80.7	125,800 *	22.0	79.9	112,200 *	24.0	79.7	96,500 *	26.0	79.6	88,000 *	28.0	79.5	78,200 *
20.0	80.0	124,000 *	24.0	78.7	100,600	26.0	78.6	88,500 *	28.0	78.6	79,900	30.0	78.6	71,900
22.0	78.7	112,500 *	26.0	77.5	88,900	28.0	77.6	80,200	30.0	77.7	72,200	32.0	77.7	65,900
24.0	77.4	100,800	28.0	76.3	80,200	30.0	76.5	72,400	32.0	76.7	66,100	34.0	76.9	60,900
26.0	76.1	89,100	30.0	75.1	72,400	32.0	75.4	66,300	34.0	75.7	61,100	36.0	75.9	56,600
28.0	74.8	80,500	32.0	74.0	66,300	34.0	74.3	61,300	36.0	74.7	56,800	38.0	75.0	52,300
30.0	73.5	72,800	34.0	72.8	61,300	36.0	73.2	57,000	38.0	73.7	52,500	40.0	74.1	48,400
32.0	72.1	66,600	36.0	71.6	57,000	38.0	72.2	52,700	40.0	72.7	48,700	42.0	73.2	45,600
34.0	70.8	61,600	38.0	70.3	52,700	40.0	71.1	48,900	42.0	71.7	45,800	44.0	72.2	42,800
36.0	69.4	57,300	40.0	69.1	48,900	42.0	70.0	46,200	44.0	70.7	43,000	46.0	71.3	40,000
38.0	68.0	53,100	42.0	67.9	46,200	44.0	68.9	43,400	46.0	69.7	40,200	48.0	70.4	38,000
40.0	66.6	49,300	44.0	66.6	43,400	46.0	67.8	40,700	48.0	68.6	38,300	50.0	69.4	36,000
42.0	65.2	46,500	46.0	65.4	40,700	48.0	66.6	38,700	50.0	67.6	36,300	55.0	67.1	31,600
44.0	63.8	43,700	48.0	64.1	38,700	50.0	65.4	36,600	55.0	65.0	32,000	60.0	64.6	28,100
46.0	62.4	40,900	50.0	62.8	36,600	55.0	62.5	32,300	60.0	62.3	28,300	65.0	62.2	25,200
48.0	60.9	38,900	55.0	59.5	32,300	60.0	59.5	28,700	65.0	59.6	25,400	70.0	59.6	22,900
50.0	59.4	36,900	60.0	56.1	28,700	65.0	56.5	25,900	70.0	56.8	23,200	75.0	57.0	20,900
55.0	55.7	32,500	65.0	52.5	25,900	70.0	53.2	23,500	75.0	53.8	21,200	80.0	54.3	19,000
60.0	51.7	29,000	70.0	48.8	23,500	75.0	49.9	21,400	80.0	50.8	19,400	85.0	51.6	17,500
65.0	47.4	26,100	75.0	44.8	21,400	80.0	46.4	19,600	85.0	47.7	17,700	90.0	48.7	16,100
70.0	42.9	23,800	80.0	40.5	19,600	85.0	42.6	18,100	90.0	44.3	16,500	95.0	45.6	15,000
75.0	37.9	21,800	85.0	36.0	18,100	90.0	38.6	16,800	95.0	40.7	15,300	100.0	42.4	14,000
80.0	32.2	20,100	90.0	30.5	16,900	95.0	34.1	15,600	100.0	36.9	14,200	110.0	35.4	12,100
85.0	25.7	18,600	95.0	24.0	15,800	100.0	29.1	14,600	110.0	27.8	12,600	120.0	26.6	10,800
						105.0	23.2	13,770	115.0	22.2	11,840	125.0	21.3	10,230
Reeves	5		Reeves	5		Reeves	4		Reeves	4		Reeves	4	

Note: Designed and rated to comply with ANSI Code B30.5.

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts. Refer to notes P10.



Crane Boom Lifting Capacity

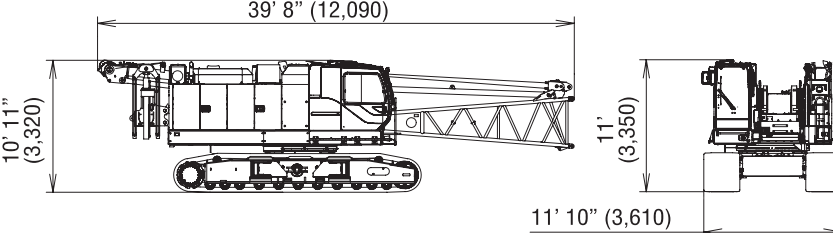
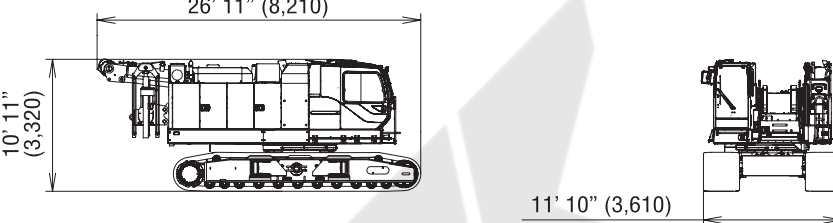
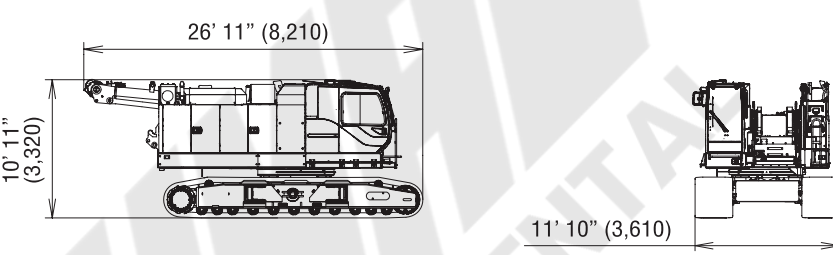
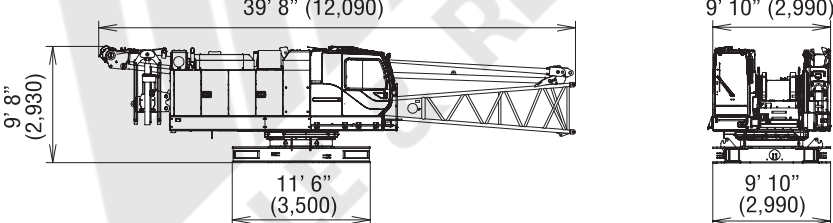
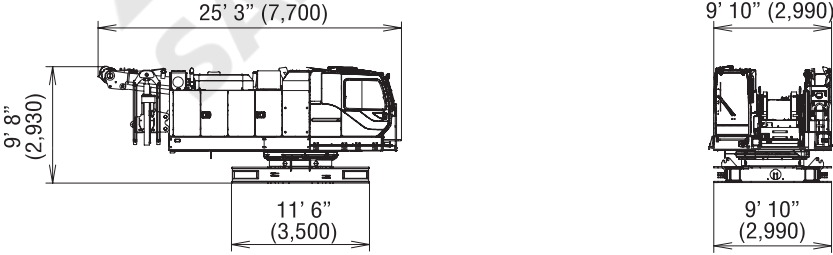
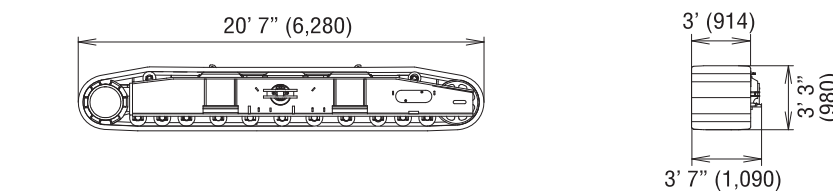
Unit: lbs

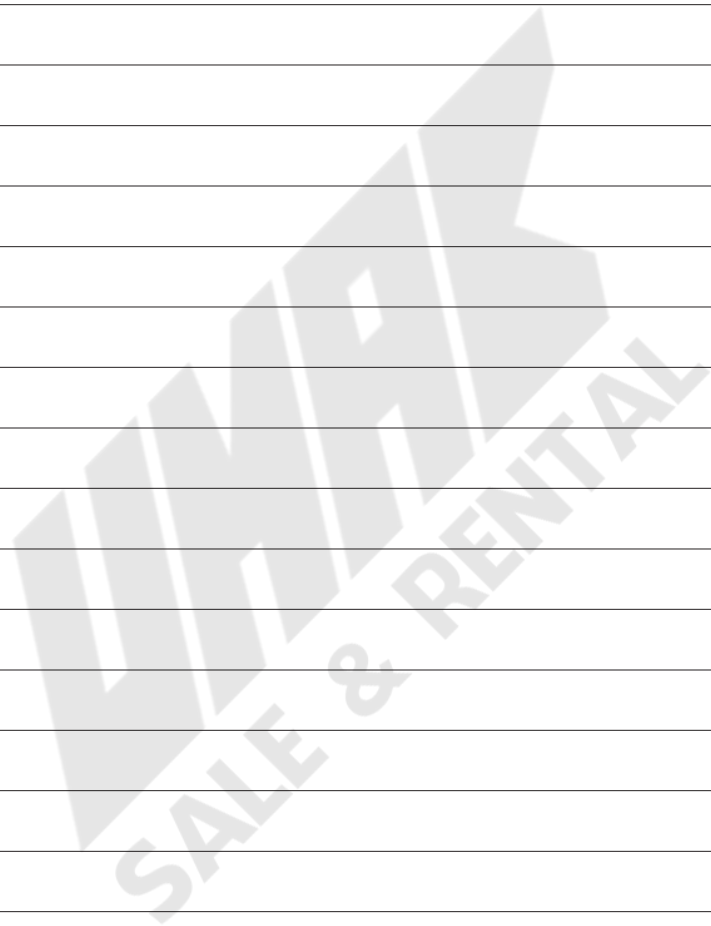
Counterweight: 69,000 lbs, Carbody weight: 31,700 lbs

140' Boom			150' Boom			160' Boom			170' Boom			180' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
24.0	81.9	72,900 *	26.0	81.7	62,200 *	28.0	81.5	50,200 *	30.0	81.3	44,500 *	30.0	81.8	39,300 *
26.0	81.1	71,800 *	28.0	80.9	61,300 *	30.0	80.8	50,100 *	32.0	80.7	43,900 *	32.0	81.2	38,800 *
28.0	80.3	70,800 *	30.0	80.1	60,400 *	32.0	80.1	49,700 *	34.0	80.0	43,200 *	34.0	80.5	38,200 *
30.0	79.4	69,000 *	32.0	79.4	59,400 *	34.0	79.4	49,200 *	36.0	79.3	42,500 *	36.0	79.9	37,600 *
32.0	78.6	64,700 *	34.0	78.6	57,200 *	36.0	78.6	48,500 *	38.0	78.6	41,900 *	38.0	79.2	37,000 *
34.0	77.8	60,500 *	36.0	77.8	54,100 *	38.0	77.9	47,800 *	40.0	77.9	41,200 *	40.0	78.6	36,400 *
36.0	76.9	56,200	38.0	77.0	51,000 *	40.0	77.2	46,600 *	42.0	77.2	40,600 *	42.0	77.9	35,800 *
38.0	76.1	52,000 *	40.0	76.3	48,000 *	42.0	76.4	44,300 *	44.0	76.5	40,000 *	44.0	77.2	35,100 *
40.0	75.2	48,200	42.0	75.5	45,200	44.0	75.6	42,100 *	46.0	75.8	39,300 *	46.0	76.6	34,500 *
42.0	74.4	45,400 *	44.0	74.7	42,400 *	46.0	74.9	39,800 *	48.0	75.1	37,400 *	48.0	75.9	33,900 *
44.0	73.5	42,600	46.0	73.9	39,600	48.0	74.1	37,800	50.0	74.4	35,400 *	50.0	75.3	33,300 *
46.0	72.7	39,800 *	48.0	73.1	37,500 *	50.0	73.4	35,800 *	55.0	72.6	31,200 *	55.0	73.7	30,800 *
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400	60.0	70.9	27,600	60.0	72.0	27,400
50.0	71.0	35,800 *	55.0	70.3	31,200 *	60.0	69.6	27,800 *	65.0	69.1	24,600 *	65.0	70.3	24,400 *
55.0	68.8	31,400	60.0	68.2	27,600	65.0	67.7	25,000	70.0	67.3	22,300	70.0	68.6	21,900
60.0	66.6	27,800 *	65.0	66.2	24,800 *	70.0	65.8	22,600 *	75.0	65.4	20,300 *	75.0	66.9	19,900 *
65.0	64.3	25,000	70.0	64.0	22,400	75.0	63.8	20,500	80.0	63.5	18,500	80.0	65.2	18,100
70.0	62.0	22,600 *	75.0	61.9	20,300 *	80.0	61.8	18,700 *	85.0	61.6	16,800 *	85.0	63.4	16,600 *
75.0	59.7	20,500	80.0	59.6	18,500	85.0	59.7	17,000	90.0	59.7	15,400	90.0	61.6	15,200
80.0	57.3	18,700 *	85.0	57.4	17,000 *	90.0	57.6	15,700 *	95.0	57.8	14,300 *	95.0	59.8	14,000 *
85.0	54.8	17,200	90.0	55.2	15,700	95.0	55.4	14,500	100.0	55.8	13,300	100.0	57.9	12,900
90.0	52.2	15,900 *	95.0	52.8	14,400 *	100.0	53.2	13,500 *	110.0	51.5	11,500 *	110.0	54.0	11,100 *
95.0	49.5	14,600	100.0	50.3	13,400	110.0	48.6	11,700	120.0	47.0	9,800	120.0	49.9	9,600
100.0	46.8	13,600 *	110.0	45.1	11,700 *	120.0	43.6	10,100 *	130.0	42.2	8,700 *	130.0	45.6	8,500 *
110.0	40.8	11,900	120.0	39.3	10,300	130.0	38.1	8,900	140.0	36.8	7,700	140.0	40.9	7,400
120.0	34.0	10,300 *	130.0	32.8	8,900 *	140.0	31.6	7,900 *	150.0	30.5	6,800 *	150.0	35.7	6,500 *
130.0	25.7	9,200	140.0	24.3	8,000	150.0	23.7	7,100	160.0	23.2	5,900	160.0	29.7	5,600
135.0	20.5	8,830 *										165.0	26.5	5,100 *
Reeves		4	Reeves		4	Reeves		2	Reeves		2	Reeves		2
190' Boom			200' Boom											
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)									
32.0	81.6	34,400 *	34.0	81.5	30,300 *									
34.0	81.0	33,800 *	36.0	80.9	29,700 *									
36.0	80.4	33,300 *	38.0	80.3	29,200 *									
38.0	79.8	32,700 *	40.0	79.7	28,700 *									
40.0	79.2	32,200 *	42.0	79.1	28,200 *									
42.0	78.6	31,700 *	44.0	78.6	27,700 *									
44.0	78.0	31,100 *	46.0	78.0	27,300 *									
46.0	77.4	30,600 *	48.0	77.4	26,800 *									
48.0	76.7	30,100 *	50.0	76.8	26,300 *									
50.0	76.1	29,600 *	55.0	75.3	24,900 *									
55.0	74.5	28,100 *	60.0	73.8	23,200 *									
60.0	73.0	26,200 *	65.0	72.4	21,500 *									
65.0	71.4	24,000 *	70.0	70.9	20,000 *									
70.0	69.8	21,800 *	75.0	69.3	18,500 *									
75.0	68.2	19,900	80.0	67.8	17,100 *									
80.0	66.5	18,000 *	85.0	66.2	15,900 *									
85.0	64.9	16,400	90.0	64.6	14,700									
90.0	63.2	15,000 *	95.0	63.0	13,500 *									
95.0	61.5	13,900	100.0	61.4	12,400									
100.0	59.7	12,900 *	110.0	58.1	10,600 *									
110.0	56.2	11,000	120.0	54.6	9,200									
120.0	52.5	9,400 *	130.0	51.1	7,800 *									
130.0	48.5	8,200	140.0	47.2	6,500									
140.0	44.3	7,200 *	150.0	43.1	5,200 *									
150.0	39.7	6,300	155.0	41.0	4,650 *									
160.0	34.8	5,300 *												
165.0	32.1	4,650												
Reeves		2	Reeves		2									

Note: Designed and rated to comply with ANSI Code B30.5.
 Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
 Refer to notes P10.

TRANSPORTATION PLAN

Name	Dimension ft-in (mm)	Weight lbs (kg)
Base Machine <ul style="list-style-type: none"> • Boom base • Gantry • Crawler • Wire rope (Front / boom hoist) 		95,128 (43,150)
Base Machine <ul style="list-style-type: none"> • Gantry • Crawler • Wire rope (Front / rear / boom hoist) • Without boom base 		90,586 (41,090)
Base Machine <ul style="list-style-type: none"> • Gantry • Crawler • Wire rope (Front / rear / boom hoist) • Without boom base • Self removal unit 		88,668 (40,220)
Base Machine <ul style="list-style-type: none"> • Boom base • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler 		61,442 (27,870)
Base Machine <ul style="list-style-type: none"> • Gantry • Wire rope (Front / rear / boom hoist) • Without Crawler • Boom base 		56,900 (25,810)
Crawler		16,843 (7,640)

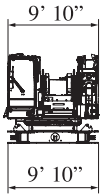
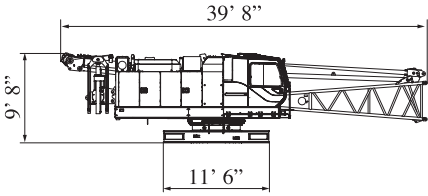


PARTS AND ATTACHMENTS

Dimensions: ft Weight: lbs

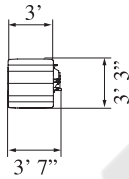
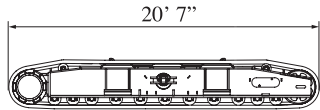
Base Machine

Gantry, Wire rope (Front/rear/boom hoist),
Without crawler
Weight: 61,442 lbs Width: 9' 10"



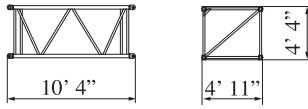
Crawler

Weight: 16,843 lbs



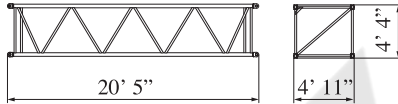
10 ft Insert Boom

Weight: 685 lbs



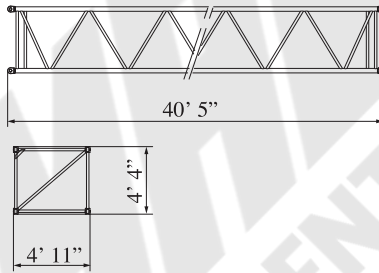
20 ft Insert Boom

Weight: 1,145 lbs



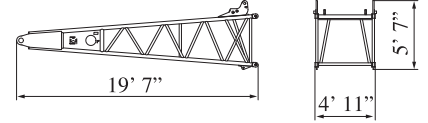
40 ft Insert Boom

Weight: 2,115 lbs



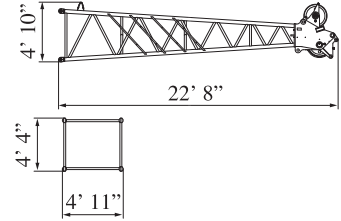
Boom Base

Weight: 3,252 lbs



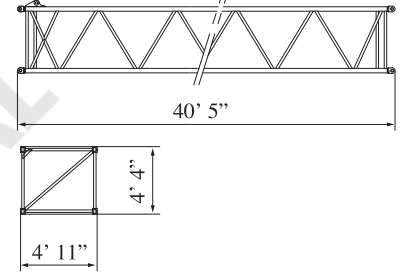
Boom Tip

Weight: 2,580 lbs



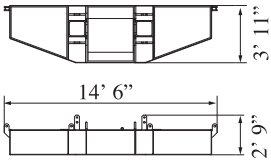
40 ft Insert Boom with lug

Weight: 2,150 lbs



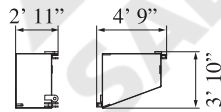
Counterweight No.1

Weight: 18,320 lbs



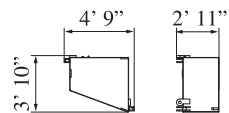
Counterweight No.2, No.3 (R)

Weight: 12,677 lbs (1 piece)



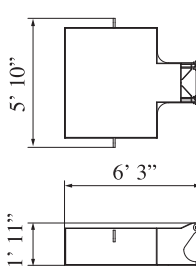
Counterweight No.2, No.3 (L)

Weight: 12,677 lbs (1 piece)



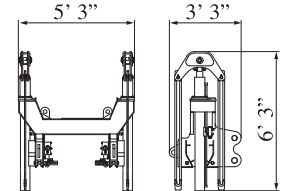
Carbodyweight

Weight: 15,873 lbs



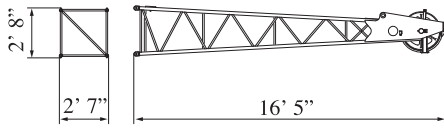
Self removal unit

Weight: 1,918 lbs



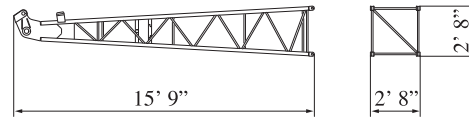
Jib Tip

Weight: 617 lbs



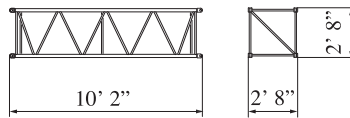
Jib Base

Weight: 440 lbs



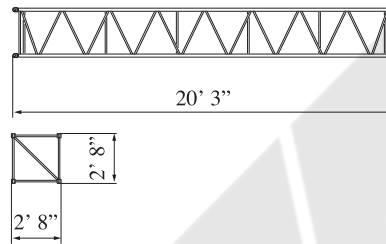
10 ft Insert Jib

Weight: 220 lbs



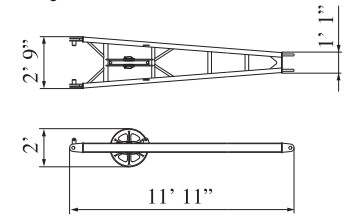
20 ft Insert Jib

Weight: 395 lbs



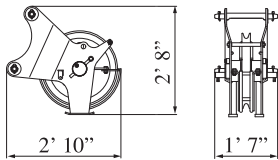
Jib Strut

Weight: 456 lbs



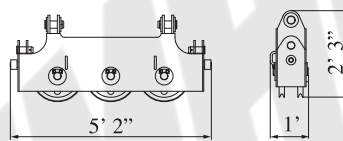
Auxiliary Sheave

Weight: 430 lbs



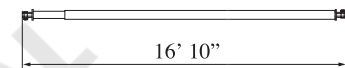
Upper Spreader

Weight: 518 lbs



Backstop

Weight: 595 lbs



WORLDWIDE RENTAL
SALE & RENTAL

WMA
SALE & RENTAL

Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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URL: <http://www.kobelcocranesnorthamerica.com/>

Leaders Lead

The New

G Series
(Interim Tier IV Compliant)

CK850G

CK2750G

CK1200G

CK1100G

CK1600G



KOBELCO **KOBELCO CRANES NORTH AMERICA, INC.**
Reliability is the History of Quality

10845 Train Court - Houston, TX 77041 | Ph: 713.856.5755 | Fax: 713.856.9072
www.kobelcocranesnorthamerica.com

CK

G series



NEW MODEL LINE-UP

GLR850G

85 usTon

GLR1100G

110 usTon

GLR200G

120 usTon

NEW

GLR1600G

160 usTon

GLR2750G

275 usTon

• CK2000II REPLACEMENT - INTRO EARLY 2012

COMPONENT INTERCHANGEABILITY

G series

NOTE: CHANGES HIGHLIGHTED IN RED

MODEL	BOOM/INT	JIB/INT	LUFF/INT	AUX SHEAVE INT	ENG HP new/old	WIRE ROPE
CK850G ◀▶	200'/YES**	60'/YES	NOT AVAIL.	YES	285/215	22mm (6 strand)
CK1100G ◀▶	200'/YES**	60'/YES	NOT AVAIL.	YES	285/331	26mm (6 strand)
CK1200G ◀▶	230'/Ins. & tip**	100'/YES	170'/YES	YES	285/331	26mm (6 strand)
CK1600G ◀▶	250'/YES**	100'/YES	170'/YES	YES	363/331	26mm (uni 3 RR)
CK2750G ◀▶	300'/Inserts*	100'/YES	200'/NO	YES	363/331	26mm (uni 3 RR)

* Different Pendants

** Diff Backstops & electrical connectors

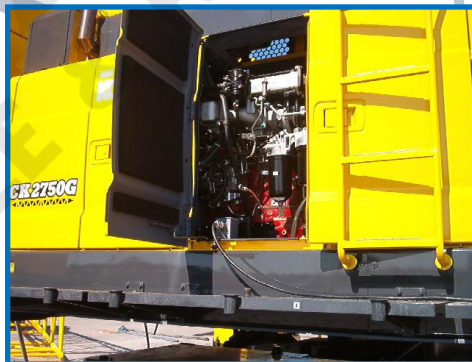
“G” SERIES

**REQUIRED TIER 3.5 ENGINE
COMBINED WITH KOBELCO FUEL SAVINGS TECHNOLOGY**

1.) TIER 3.5 HINO ENGINE WITH “DPR” and “EGR” TECHNOLOGY

REDUCES

- Particulate Matter
- NOx
- Noise Level



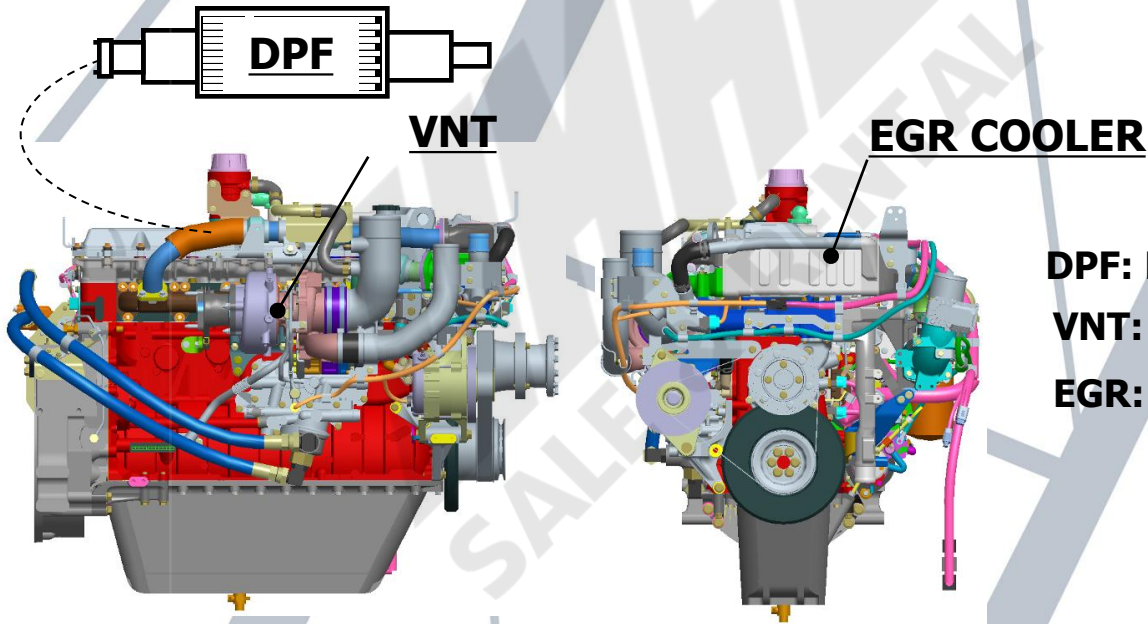
2.) EXCLUSIVE “G” MODES

- AIS
- G WINCH
- G ENGINE

(ALL OPERATOR SELECTABLE)



REDESIGNED HINO ENGINES (TIER 3.5)

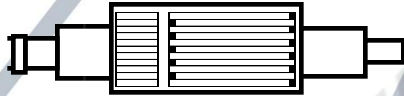


DPF: Diesel Particulate Filter
VNT: Variable Nozzle Turbo
EGR: Exhaust Gas Recirculation

KCNA & KCNA DEALERS REMAIN AS WARRANTY/SERVICE SUPPORT

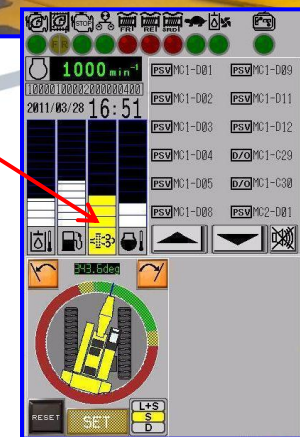
- Required fuel: Low Sulfur - containing 50ppm or less

WHAT IS A DIESEL PARTICULATE FILTER? (DPF)



LARGE FILTER THAT TRAPS DIESEL PARTICULATE MATTER & PERIODICALLY BURNS/CLEANS THE COLLECTED EXHAUST PARTICLES

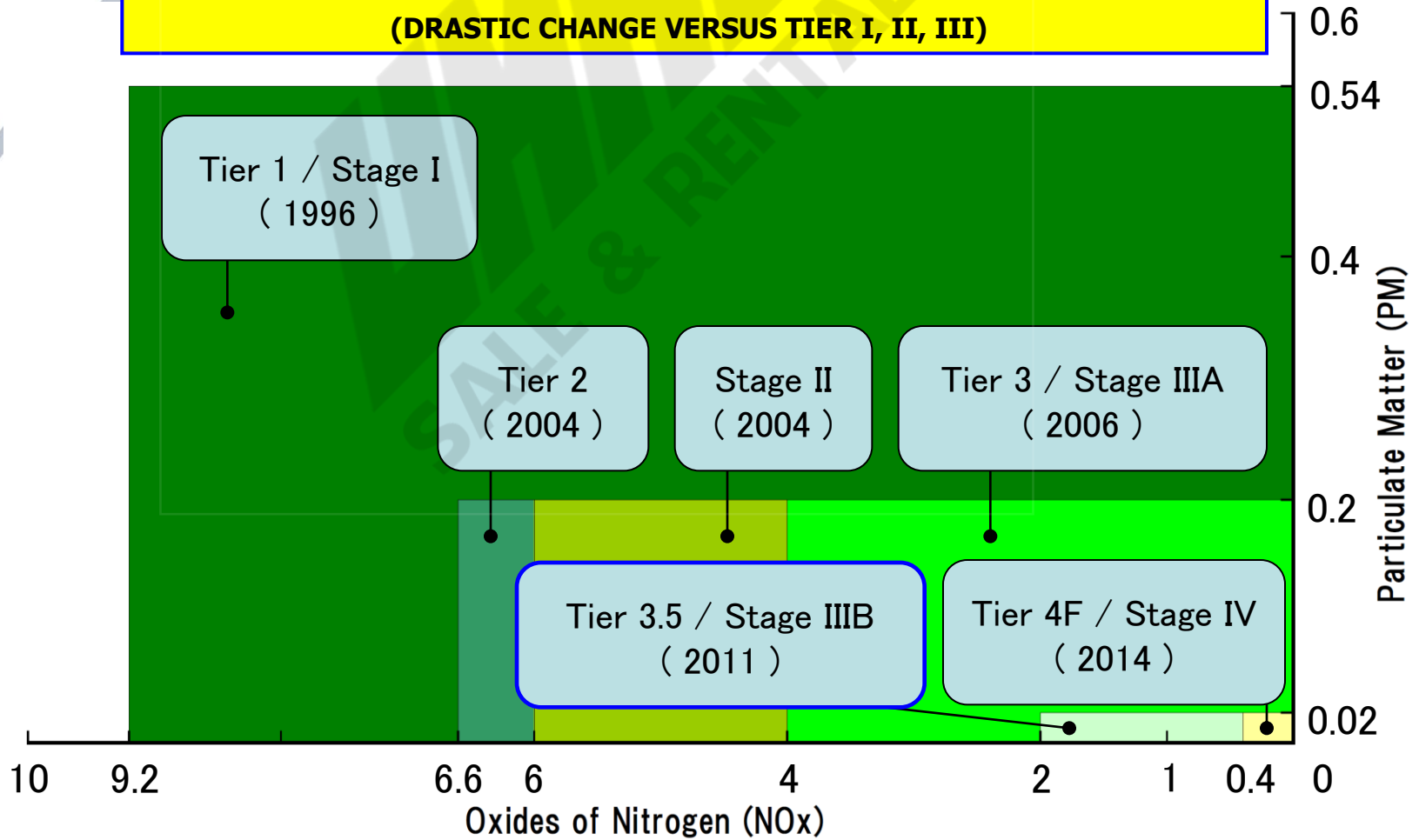
- BURNS/CLEANS ITSELF AUTOMATICALLY EVERY 10 HOURS
- OPERATOR HAS OVER-RIDE OPTION
- GRADUATED SCALE WARNING DISPLAYS TO OPERATOR
- REPLACEMENT INTERVAL APPROX 4000 – 5000 HOURS



EPA REQUIREMENTS

TIER 3.5 & TIER 4 EMISSIONS REDUCTION REQUIREMENT

(DRASTIC CHANGE VERSUS TIER I, II, III)



WORLDWIDE EMISSION REQUIREMENTS

UNITED STATES

**Safety: OSHA standard
Rating: ANSI standard
Emission: EPA Tier 3.5**

EUROPEAN UNION

**Safety: EN13000 standard
Rating: EN13000 standard
Emission: EURO Stage IIIB**

JAPAN

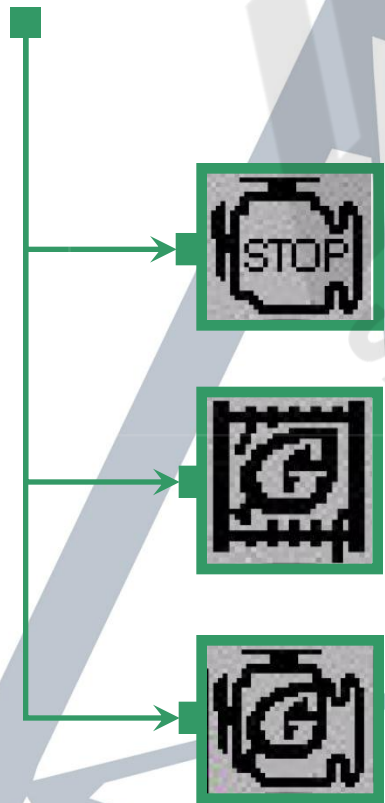
**Safety: Mobile crane standard
Rating: Mobile crane standard
Emission: 2011 Regulation**

EXCLUSIVE ENERGY/FUEL SAVING SYSTEM



3 BASIC MODES

ALL OPERATOR SELECTABLE



AIS MODE (Auto Idling Stop mode)

G-WINCH MODE (Green winch mode)

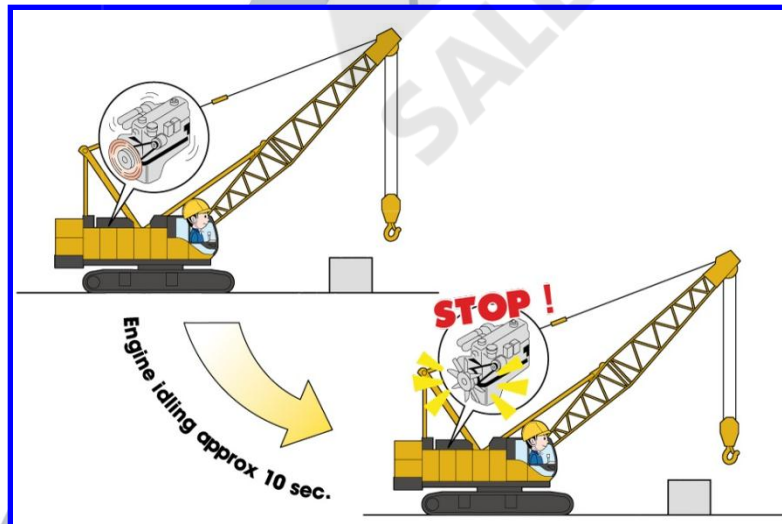
G-ENGINE MODE (Green engine mode)



AIS MODE

THE AIS MODE can conserve fuel by stopping the engine **-with an operator prompt** -after 10 seconds of idling time. Restarting the engine is simple by just twisting the accelerator grip.

AIS CONDITIONS OF OPERATION (SAFETY CONSIDERATION)...



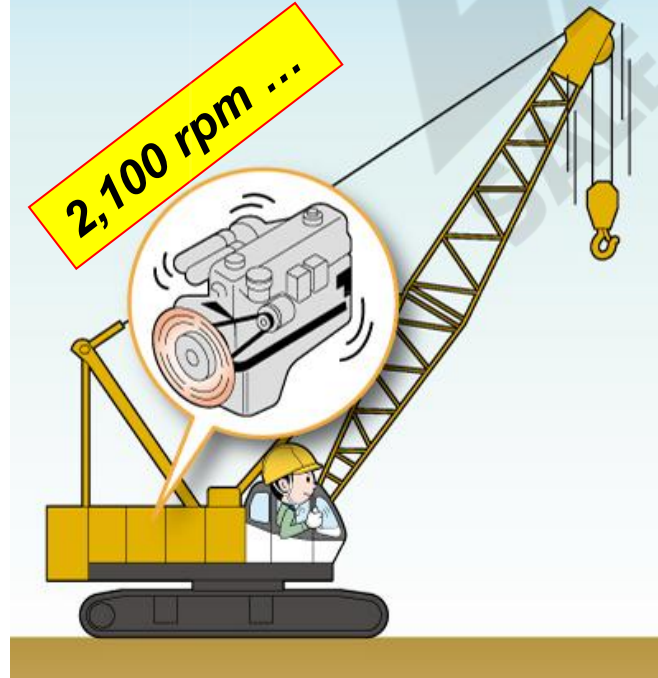
- Hyd. Oil temperature : 60 F or less
- Coolant temperature : 105 F to 175F
- Low engine rpm : 800 +/-40 rpm
- Winch mode : Brake mode
- Boom angle : 5 degree before max. angle
- Lifting load : No. of reeving x 2,200 lbs. (max. 11,000 lbs)
- Swing parking brake : ON
- LMI release switch : LOCK
- Error code : None

NOTE: AIS air-conditioner is available in option.

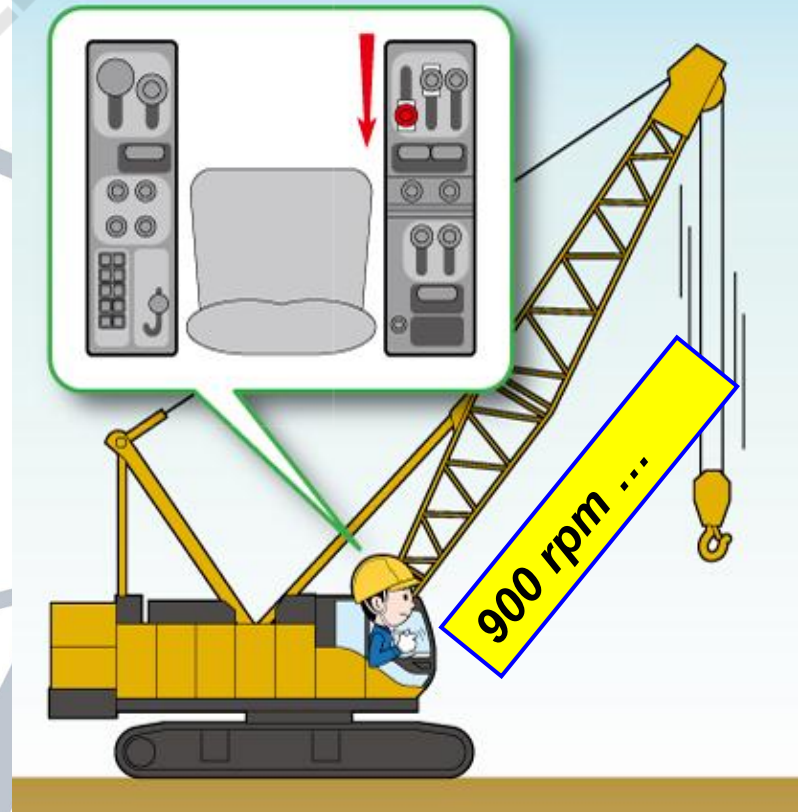


G-WINCH MODE

BEFORE – Even No-Load lifting required full engine RPM to obtain max line speed



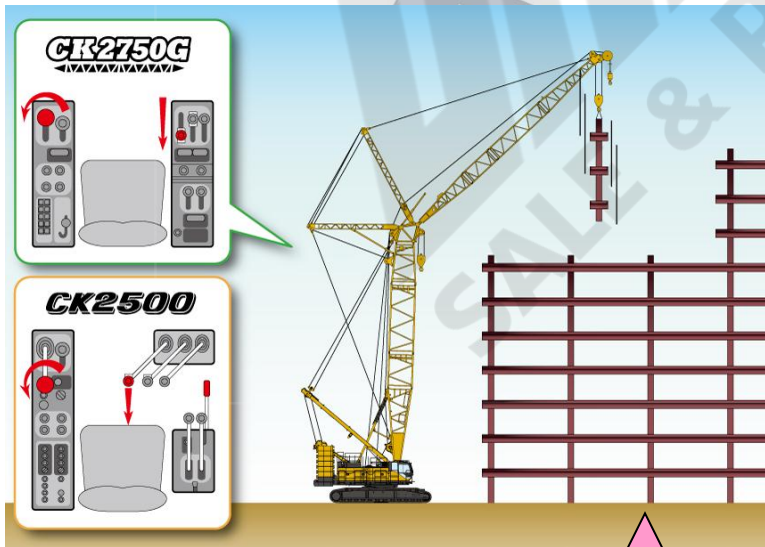
NOW – THE G-WINCH MODE
Can produce maximum winch line speed –
EVEN AT LOW ENGINE RPM



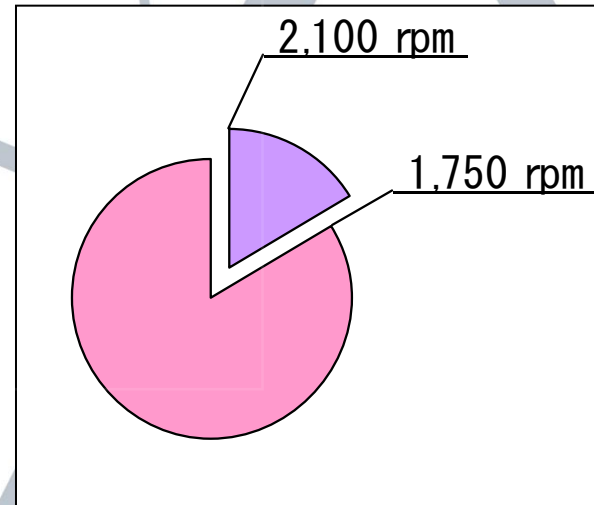


G-ENGINE MODE

THE G-ENGINE MODE -limits maximum engine speed to 1,750 RPM and controls the pumps to make engine operate in the most efficient condition.



Same speed

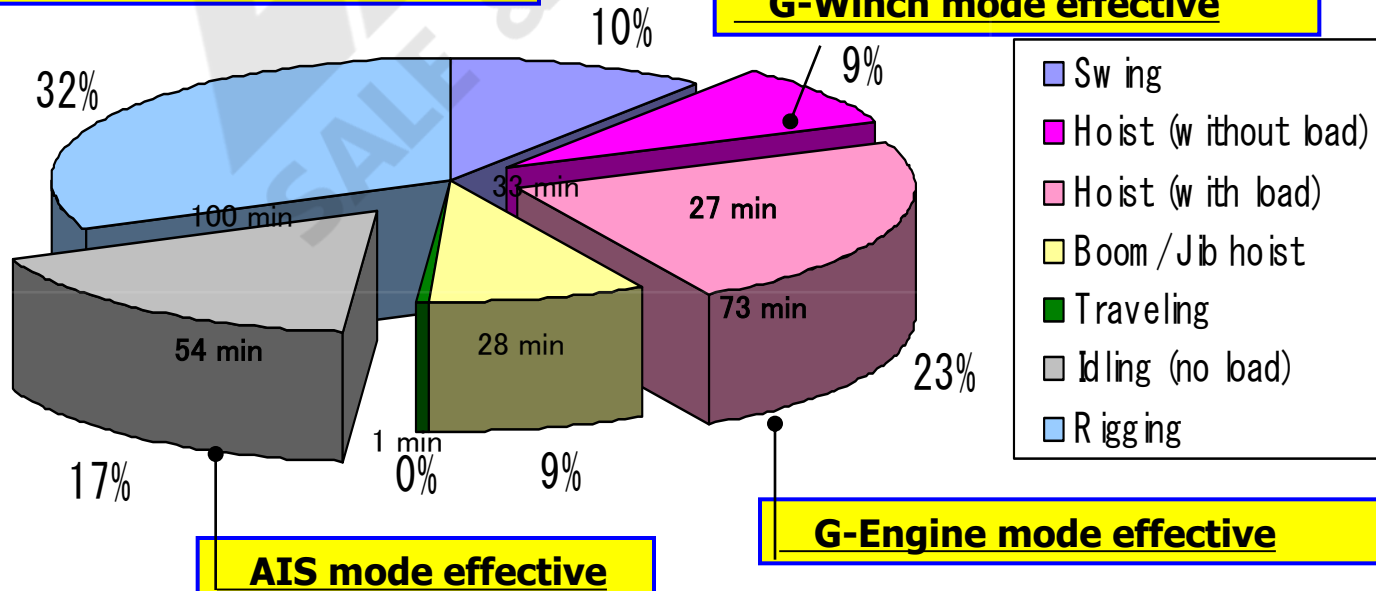


BEFORE – an operator may have chose to operate at full engine RPM but not engage the control lever fully, therefore using more fuel to produce the same line speed.

HOW MUCH FUEL CAN BE SAVED ?

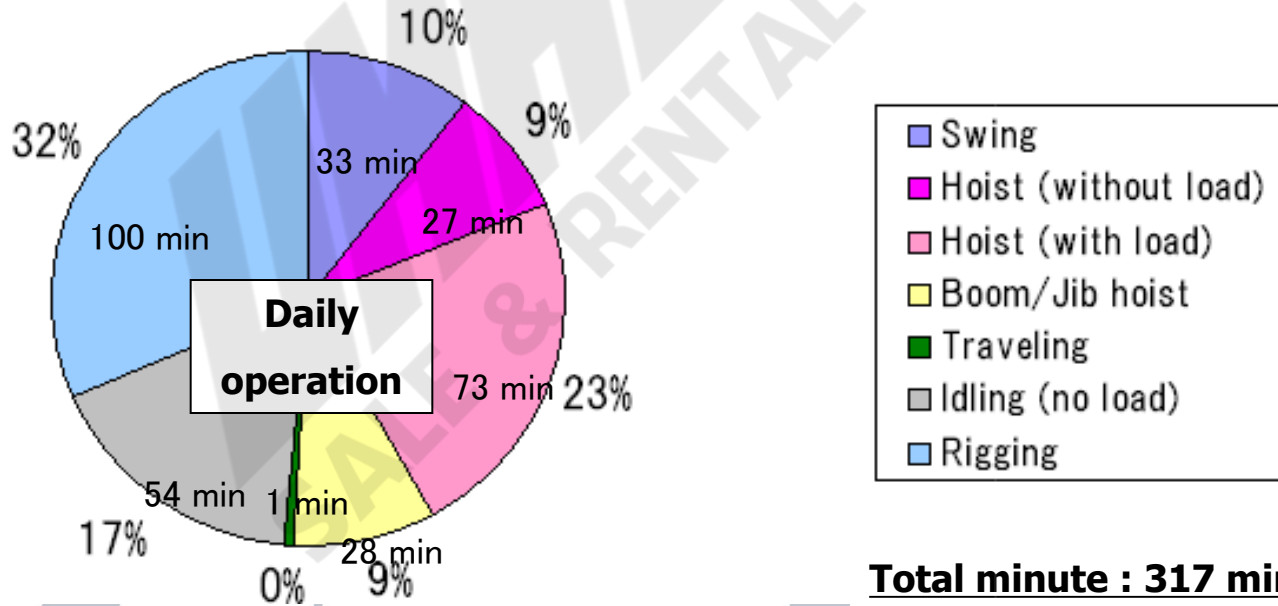
ACTUAL JOB SITE DATA, constructing an 8 floor building with a Kobelco CK1600II Luffing Jib with 150ft main + 100ft jib, handling steel beams (2,200 lbs to 11,000 lbs). The graph shows daily operating minutes of each function as a percentage of total time.

Total minute : 317 min/day



FUEL SAVINGS CALCULATION

(From KCROSS info : 21.1 gal fuel used without G-modes)



Total minute : 317 min/day

G-MODE FUEL SAVINGS / BY MODE

+ AIS : 1.2 gal / day

+ G-Winch : 2.4 gal / day

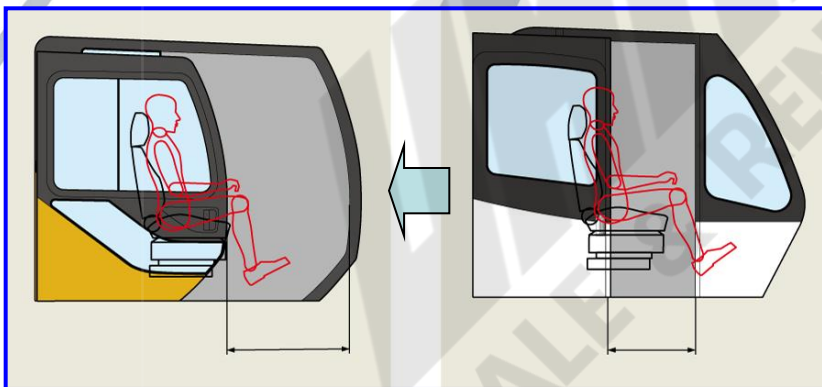
+ G-Engine : 0.3 gal / day

TOTAL= 3.9 GALLON/DAY = 18% SAVINGS

NEW CAB DESIGN

NEW

PREVIOUS

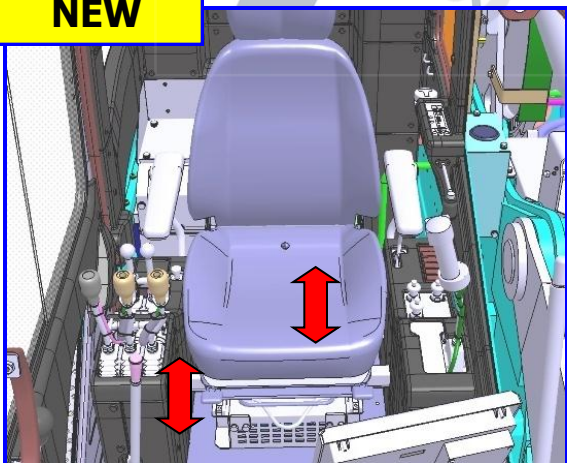


ISOLATED CAB BASE FRAME

* Reduces vibration

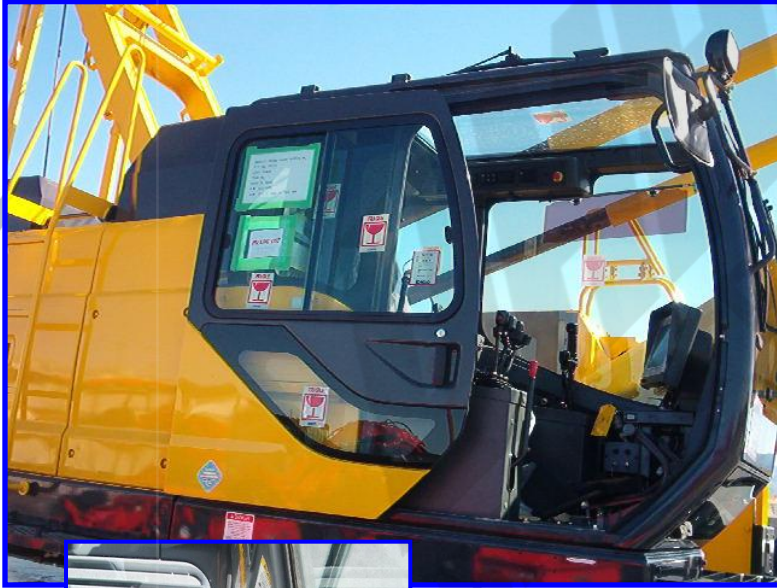
- ADDITIONAL LEG/FOOT ROOM
- EASE OF ENTRY
- WIDER DOOR

NEW



Independently adjustable lever position and operator seat.

NEW CAB DESIGN



REPOSITIONED – HOIST CONTROL LEVERS - DRUM SPEED CONTROLS - TRAVEL CONTROLS

PREVIOUS

NEW CAB DESIGN – CONTROL LAYOUT

- INCREASED OPERATOR'S FIELD OF VISION
- INCREASED AIR CONDITIONER OUTPUT + 10%

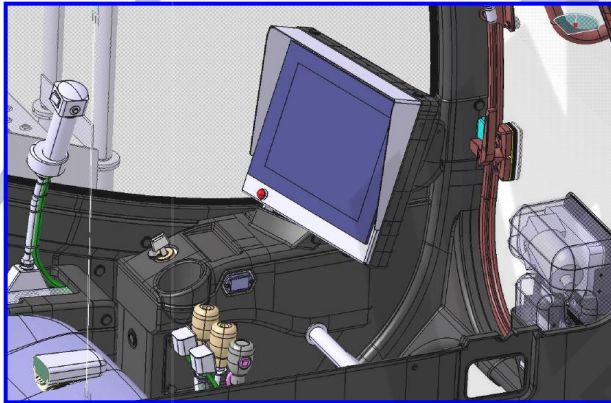
NEW



PREVIOUS

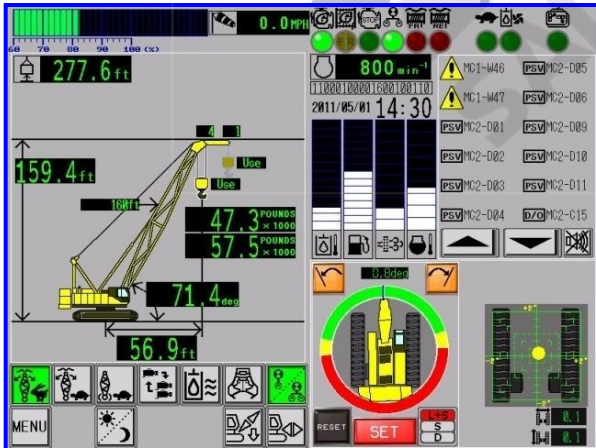


NEW CAB - LMI



KOBELCO DESIGNED & WARRANTED

12" touch panel screen with sunshade & screen protector –



EASY TO PROGRAM –

Easy to read and understand information



PREVIOUS LMI



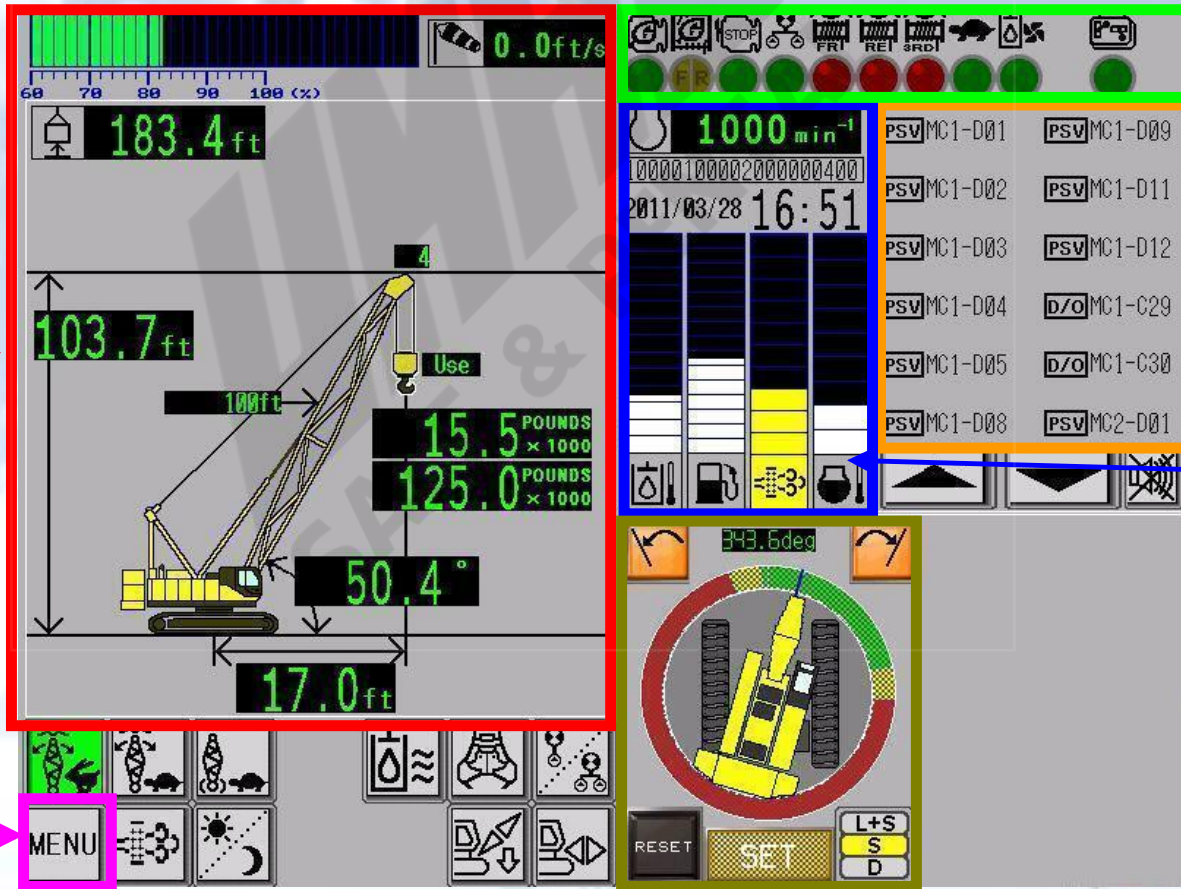
PREVIOUS GAUGE CLUSTER

Monitor Overview

Moment Limiter

Menu Button

Keep this inside the cab



Mode ON/OFF Indicators

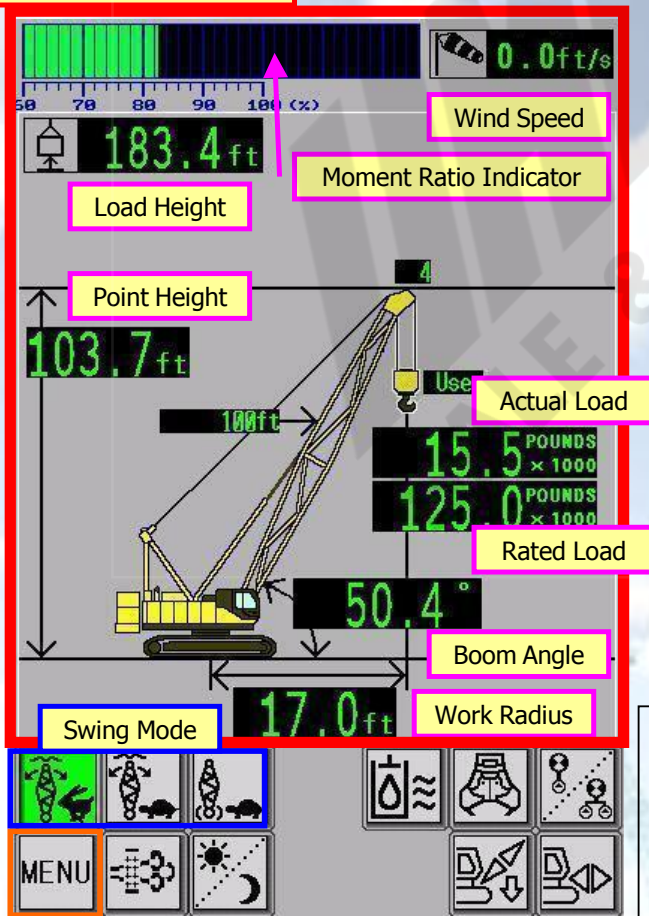
Error / Warning Display

Gauges

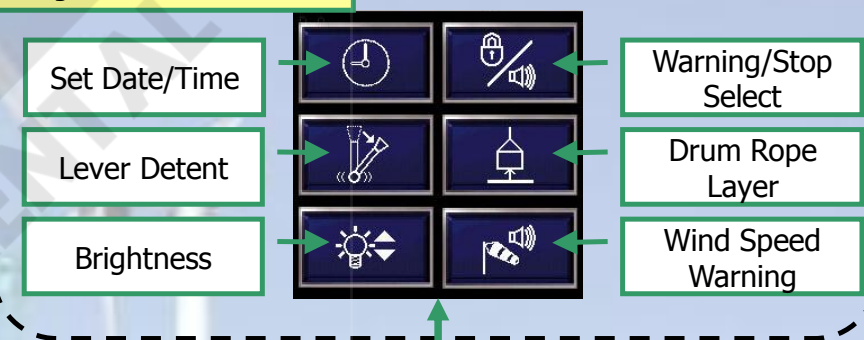
Swing Limitation Device

[Left Side] Moment Limiter

Moment Limiter



Adjustment Menu



Main Menu



- Hyd. Heater
- DPF Re-gen
- Boom Down
- Pump Mode SW
- Monitor Dimmer
- Assembly Mode

Keep this inside the cab

[Right Side] Gauges

G mode Indicators

G-Engine
G-Winch
AIS (Auto Idling Stop)

Mode ON/OFF Indicators

Dual Pump Mode
Free Fall Mode
Inching Mode
Oil Cooler
Remote

1000 min⁻¹
2011/03/28 16:51
PSV MC1-D01 PSV MC1-D09
PSV MC1-D02 PSV MC1-D11
PSV MC1-D03 PSV MC1-D12
PSV MC1-D04 D/O MC1-C29
PSV MC1-D05 D/O MC1-C30
PSV MC1-D08 PSV MC2-D01

343.6deg

RESET SET L+S S D

Click on warning to see the details!

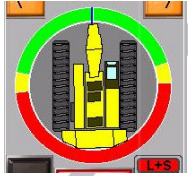
- Hyd. Oil Temp. Gauge
- Fuel Gauge
- Soot Accum. Gauge
- E/G Coolant Temp. Gauge

Swing Limitation Device

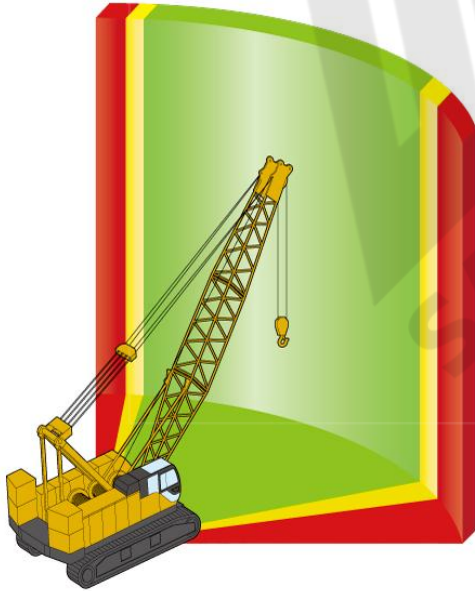
- Allowed
- Pre-warning
- Prohibited
- Left Limit Set
- Right Limit Set
- L+S Alarm & Stop
- S Alarm only
- D Display only

Keep this inside the cab

SWING LIMITER



ENSURES ADDITIONAL JOBSITE SAFETY



3 MODES – OPERATOR CHOOSES

D MODE: WARNING LIGHT S MODE: ALARM LS MODE: ALARM & STOP



IMPROVED HYDRAULIC CONTROL CIRCUIT



"SINGLE" OR "DOUBLE" - PUMP FLOW ABILITY

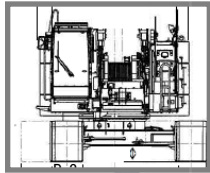
SINGLE PUMP

- ALLOWS TWO WINCHES TO BE CONTROLLED INDEPENDENTLY
- * LUFFING

DOUBLE PUMP

- MAXIMIZE SPEED IN SINGLE LINE OPERATION
- SYNCHRONIZE SPEED IN DOUBLE LINE OPERATION
- * STEEL ERECTION
- * BRIDGE WORK
- * CLAMSHELL
- * PILEDRIVING

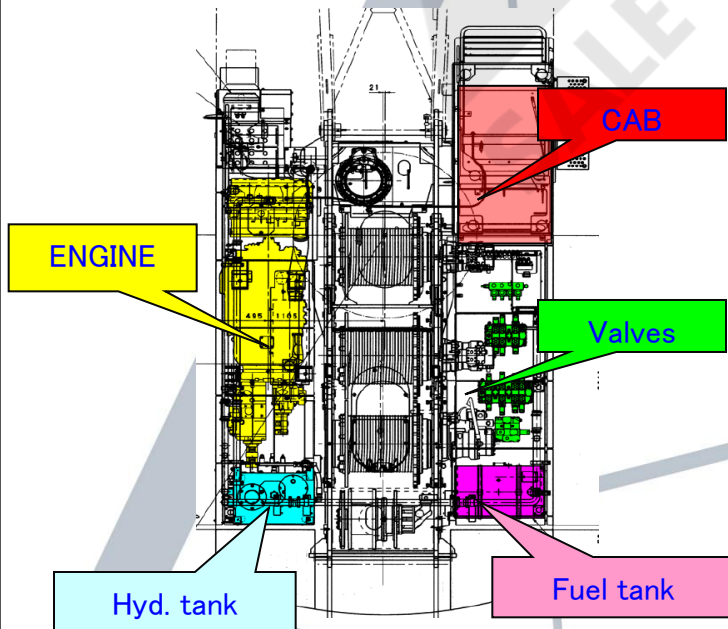
MODEL	HYD PUMP FLOW	OPERATOR SELECT	HYD PUMP FLOW	OPERATOR SELECT	MODEL
CK850G	DUAL	NO	SINGLE	NO	CK850III
CK1100G	DUAL	NO	DUAL	NO	CK1000III
CK1200G	SINGLE or DUAL	YES	SINGLE	NO	NOT AVAIL
CK1600G	SINGLE or DUAL	YES	SINGLE	NO	CK1600II
CK2750G	SINGLE or DUAL	YES	SINGLE	NO	CK2500II



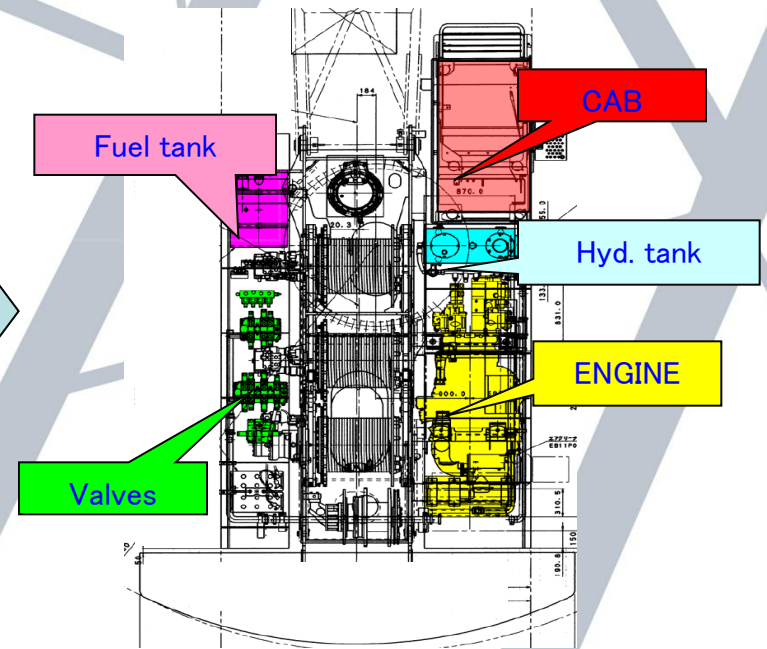
REDESIGNED COMPONENT LAYOUT

- REDUCTIONS IN TRANSPORT WIDTH
- REDUCTIONS IN TRANSPORT WEIGHT

PREVIOUS

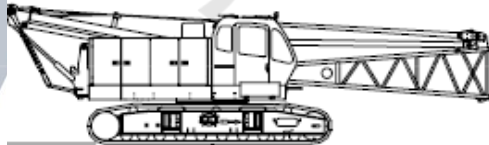


NEW

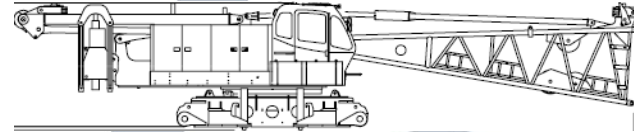


REDUCED TRANSPORT WEIGHT

MODEL	TRANSPORT WEIGHT	TRANSPORT WEIGHT	MODEL
CK850G ◀▶	91,677	89,980	CK850III
CK1100G ◀▶	95,128	99,970	CK1000III
CK1200G ◀▶	74,206	94,050	NOT AVAIL
CK1600G ◀▶	84,193	88,180	CK1600II
CK2750G ◀▶	99,760	99,000	CK2500II



CK850 & CK1000/1100



CK1200 & CK1600



CK2500/2750



CK850G - CK1100G - CK1200G ASSEMBLY IMPROVEMENT

NEW REAR COUNTERWEIGHT



PREVIOUS CWT



NEW ON CK110G - SWING AWAY AXLE EXTENSIONS



NEW ON CK1100G



PREVIOUS ON CK1000

- **QUICKER ASSEMBLY**
- **EASIER TO HANDLE/RIG**
- **EASIER TRANSPORT**
- **COMMONALITY**

INCREASED TRAVEL MOTOR TORQUE

APPROX 5% - 10% INCREASE



CK850G

CK1100G

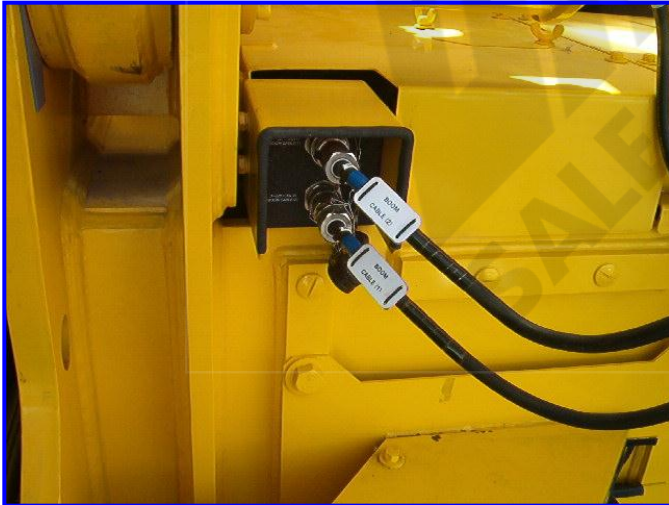
CK2750G

IMPROVED TRAVEL/COUNTER-ROTATION IN ADVERSE GROUND CONDITIONS

IMPROVED WIRING CONNECTION

UNIQUE CONNECTORS

ALL MODELS – IN UPPER FRAME BASE



CK2750G – ADD'L CONNECTIONS IN BOOM BASE

IMPROVED MAINTENANCE ACCESS

NEW LADDER FOR ACCESS TO UPPER



HANDRAILS



KOBELCO

G series



THANK YOU!

KOBELCO CRANES CO., LTD.