



Note: Standard equipment may vary depending on your areas or countires. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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REALITY The Power to Deal with Reality





When Maneuverability is a Must

Our efforts to transform thinking about transporting equipment have resulted in greater efficiency in every possible area. We designed the CK-G series to require less work and to be easier to transport, and to ensure safety during assembly and disassembly. What's more, simpler, more efficient loading for transport have reduced the cost of both transport and storage.

CK1600G Weight: 84,193lbs Width: 9'10'' Bace machine with boom base, gantry, crane backstop, wire rope(front/boom hoist), selfremoval cylinder. CK2750G Weight: 99,760lbs Width: 9'10'' Bace machine with gantry, mast, wire rope(front/rear/boom hoist)

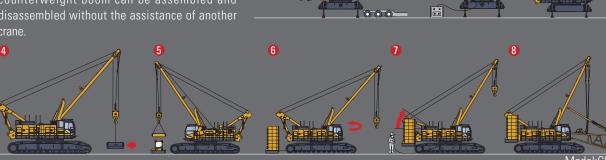
Kobelco's Unique "Lightweight Upper Frame"

Thanks to superbly rigid construction, and the use of high quality high tensile steel plate, we have been able to create a Upper Frame and body much lighter than other vehicles in the same class, with a greatly reduced width

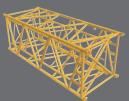
Not only is assembly and disassembly more efficient, the CK-G series is easier to transport than any previous system.

Self-removal device for Efficient Assembly, Disassembly, and Operation

The self-removal device of the CK-G series mean that the crawler, carbody weight, and counterweight boom can be assembled and disassembled without the assistance of another crane



Four Major Attachments That Make Transport More Efficient



A "nested boom" that is easy to transport efficiently

The CK-G series features a nested boom that allows the luffing insert jib to be stored in the middle boom. This reduces the number of vehicles needed for transport, and requires less space for storage.





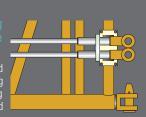


A folding "Axle extension adapter"

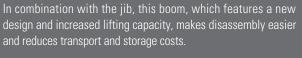
Previously, the "axle extension adapter " used for extensions had to be removed and shipped separately when breaking the crawler down for transport. The axle extension adapter can now be folded for storage in the crawler, saving on labor.

"Guy cable Stowi brackets" that can securely fastened

The guy cables can be fastened safely and securely by inserting them in the boom, allowing them to be correctly positioned during transport.

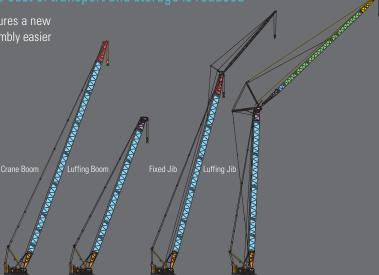


ecause the boom and jib are shared, the cost of transport and storage is reduced



Boom Base
Insert Boom
Boom Top
Luffing Boom Top
Luffing Insert Jib
Luffing Jib Top

Tapered Insert Jib



The CK-G series is equipped with a seat switch separate to the automatic overload and over-hoist prevention systems, which can be set as a boom assembly/disassembly switch able to cancel the over-hoist prevention function. This function is automatically cancelled when the boom reaches a preset angle, while the LMI function is only cancelled automatically when the boom assembly/disassembly function is needed.

A "boom assembly/ disassembly mode" for increased safety

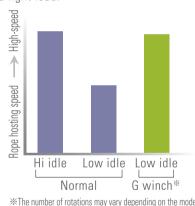


The Beginning of a Cycle That Contributes to the Environment

We have raised the standards created for the environment by re-examining the energy we consume. Eliminating needless operations and innovating engine functions allowed us to reduce fuel consumption and transformed the mechanisms that move the crane into a cycle that benefits the environment.

A "G-Winch" that provides higher speed without rising engine speed.

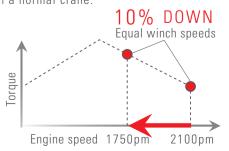
The high-speed mode allows the line to be raised or lowered at maximum line speed without raising engine speed when lifting without a load, or even with a light load.



*The number of rotations may vary depending on the models.

"G-Engine" Improves Fuel Consumption by 10%.

G-Engine keeps the engine running within fuel-efficient parameters by limiting maximum engine speed. Engine speed is reduced but pump capacity is controlled to maintain maximum winch speed for running or lifting. Using this "G-Engine" function reduces fuel consumption by approximately 10% when compared to operations on a normal crane.



G-Winch

Fuel-efficient Jp to 25% reduction in fuel consumption

G-Engine

An "Auto Idle Stop (AIS)" Function for Eco-driving.

This Auto Idle Stop (AIS) function stops the engine when the vehicle is stopped, and is the first such function to be used in this industry. AIS stops the engine automatically in situations such as when you are waiting for the next trailer to come and have checked that everything is safe, reducing energy consumption in any operation, be it construction, or loading and unloading at a port. Simply turning the accelerator bar starts the engine again – there is no need to turn the key.

Performance That Complies with Many Different Environmental Standards.

The CK-G series utilizes a low-emission engine that enables it to comply with the United States' US EPA interium Tier IV emissions regulations.



*Act on Regulation, Etc. of Emissions from Non-road Special Motor Vehicles.

Exhaust-cleaning DPR

Reduced

CO₂ emissions

Gmode

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

A New Clean Diesel System

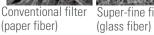
Although diesel engines consume less fuel and emit less CO₂ than gasoline engines, they also emit more harmful particulate matter and nitrogen oxide (NOx).

The "new clean energy system "engine utilizes a DPF to reduce particulate matter which is also kept to a minimum using negative ions.



A super-fine Filter

Steel wire reinforced glass fiber gives the new oil filter excellent dirt capturing qualities, making it truly a "super-fine filter." What's more, the time between filter changes has been lengthened by a factor of four. A partitioned configuration in which only the filter media is changed reduces scrap and extends the interval between changes, significantly reducing the burden on the environment





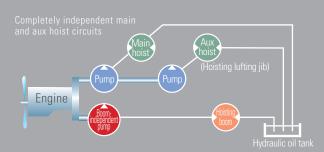
Flexibility Offers New Dimensions of Operational Performance

The CK-G series offers new dimensions of flexibility for bucket, material handling and building construction. This allows the same crane to function equally well in any work environment, providing precision in any situation, and preventing any

Switch between Dual and Independent circuit system

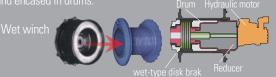
Completely independent main and secondary hoists for better composite operation





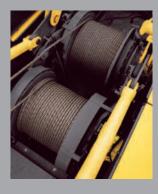
Dual circuits, perfect for bucket, material handling

Wet-type disk brake that offer powerful, stable braking



Engine

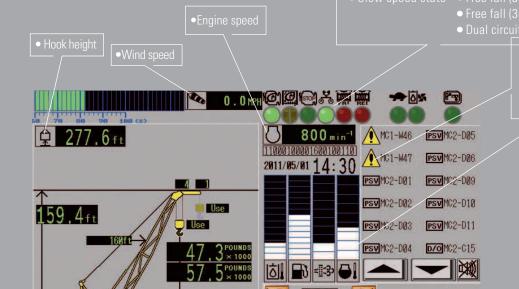
Wide, large capacity drums



Reduced counterweight specification, for reduced impact on the work site

Intuitive, easy to understand interface

Greater visibility of conventional functions! ■ Display lamp



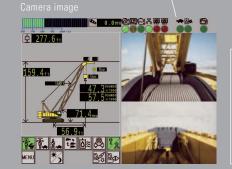
Error message

Gauges

■ Machine inclination

Improved state-recognition!

Over -swing preventative device



Universally understood pictograms are used, providing intuitive, visual recognition!

Switches



Delivering Comfort and Peace of Mind

The design of the CK-G series represents a new approach to safety and the human senses. Together with improved safety, the layout of the cab space offers heightened levels of comfort and ease of use. What's more, consideration for safety permeates throughout the entire design, all with the aim of preventing accidents.

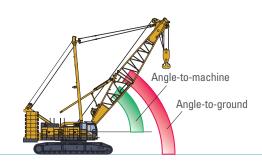


- gives the entire cab a more relaxed feel, offering a pleasant working environment and better ride quality.
- 2 Increased front glass area (up from 10.8ft² to 11.7ft²) / an expanded field of view provides improved operating conditions, greatly increasing safety and operability. Furthermore, the new wipers have a larger contact surface, for even more convenience.
- New type ML screen / crystal-clear image quality even at angles difficult for improved safety in the workplace. The angle view can be adjusted to the operator's favorite.
- Easy-to-see interface / located in

- Short levers / easily-held grips that fit the hand perfectly. The CK-G series offers mobility, as well as instantaneous course changes and swing.
- Wider cab entrance (from 22.2inch to 30.9inch) for easier access / the wide cab entrance makes it easier to get in and out of the cab, so work is more comfortable.
- Wider foot space / increased legroom decreases operational fatigue and reduces
- Counterweight derect system / reduced counterweight setting errors for increased
- Better state-recognition / more accurate comprehension of factors such as attachments and the current inclination of the crane body is now possible, improving manipulation performance.
- 9 High-quality seat materials / luxurious seat materials offer improved ride quality, and both the lever stand and the seat are fitted with adjusters for greater operator comfort.
- Full interior trim / all the instruments in the cab are covered, giving the cab the comfort of a living space.

Double or triple redundant prevention of boom over-hoists

When hoisting the boom and jib, the primary boom (jib) over-hoisting prevention device automatically halts hoisting when the boom reaches a prescribed angle. When operating as a crane, the boom angle is observed using an angle to ground. For jib operations, the CK-G series employs a system that measures the jib angle relative to both the ground and the machine, allowing guick detection of any danger. Moreover, it features a dual layer safety system, with a secondary boom (jib) over-hoisting prevention device equipped with an extreme limit function that will not allow the automatic stop point to be overridden. The jib also features both primary and secondary over-hoisting protection devices that prevent boom reversal.



Automatic soft-stop function that mitigates shock when automatic stop occurs

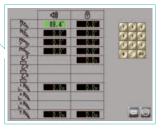
The over-hoisting prevention device prevents the boom from lowering and the jib from hoisting, and softens automatic stopping when the boom is overloaded, swinging sideways.

Better state-recogition

A variety of new options have been added, including a counterweight detect system, an over-swing preventative device and a machine inclination sensor.



A new M/L monitor that makes existing functions even easier to see.



Industry-standard automatic stop release switch

Replacing the system of separate keys used to override automatic stop functions for over-load, hook over-hoist, and boom over-hoist, the CK-G series employs a more reliable two-stage system utilizing a master key and individual switches. A single master key poses no administrative difficulties, and prevents easy override of the automatic stop.



Highly acclaimed safety devices of all types

- A swing flasher and warning buzzer that warning people in the surround areas when swinging.
- A one-way call system to ensure operator safety
- Function lock lever to prevent accidental operation
- Easily-seen crawler movement directional markings
- External alarms when moving or swing
- M/L external display lights informing those in the surrounding area of the load state of the crane
- Rear / main and aux hoist drum / boom hoist state drum camera and monitor (color)









PRODUCT STORY

A design that welcomes people gently and blends into an urban environment, a design that people can be proud to drive. That was the starting point for the CK-G series concept, something never seen in a crane before. After the initial pipe-frame design, we followed a plan that used press casting to emphasize freedom in a design that pursued our ideals, making forays into uncharted territory time and again. However, we were also careful to listen directly to people in the workplace and examine world market trends, maintaining an awareness of the needs of the times. This was reflected in a completed design that closely mirrored the actual viewpoint of our customers.



From pipe frame to press-casting Although designs based on combining flat panels with pipe frames offer excellent cost benefits, we adopted press casting to allow us more freedom in design.



Operator comfort

From the conceptual stage, repeated tests were conducted that helped to improve the comfort of the area around the operator's seat.



Full trim – the cab as living space

Luxurious, reassuring, comforting...
the cab interior has been fully trimmed
in the manner of a living space, and is
complemented by a wide field of view for
easy operation.



An expressive exterior

Surfaces that are curved yet rigid possess a rich texture and capture the light beautifully, giving the crane an impressively warm, expressive exterior.

FIELD

Land, Sea, and Sky - the World is Full of workplaces

Land, sea, or sky — there is literally no limit to the locations where Kobelco Cranes may be called upon to work. From tall buildings that seem to pierce the heavens, huge bridges spanning the sea, expressways that support transport on land, to airport construction site access routes, the new CK-G series is set to be a major player in the coming years.

Kobelco Cranes offer a comprehensive lineup in every field, with detailed functions that meet the differing needs of any worksite. The CK-G series is crystallization of technology we have developed through our quest for the highest standard in cranes, one that has continued since we completed the first truck crane ever made in Japan in 1953, and demonstrates to perfection our abilities in worksites throughout the world.















					- Chanto
Model	ŒK850Œ C K850G	CK1100G	CK1200G	CK1600G	CK2750C CK2750G
CRANE BOOM	okood	OKTIOOG	5K1256G	GRIGOGG	ONE / COG
Max. Lifting Capacity	85USt × 11ft	110USt × 11ft	120USt × 12ft	160USt × 15ft	275USt × 15ft
Max. Length	200'	200'	230'	250'	300'
FIXED JIB					
Max. Lifting Capacity	24,000lbs × 50ft	24,000lbs × 60ft	24,000lbs × 70ft	59,000lbs × 40ft	59,500lbs × 34.1ft
Max. Jib Length	60ft	60ft	70ft	100ft	100ft
Max . Combination	180ft + 60ft	190ft + 60ft	200ft + 70ft	200ft +100ft	250ft +100ft
LUFFING JIB				T0 000H 10 06	
Max. Lifting Capacity	-	-	<u>-</u>	79,000lbs × 40.0ft	176,300lbs × 32.1ft
Max. Jib Length	-	-	-	175ft	200ft
Max . Combination	•	-	-	157ft + 175ft	200ft + 200ft
MAIN & AUX. WINCH Max. Line Speed (1st layer)	390 ft/min	390 ft/min	390 ft/min	390 ft/min	361 ft/min
Rated Line Pull (Single line)	17,000lbs	25,200lbs	25,000lbs	29,500 lbs	29,700 lbs
Wire Rope Diameter	77,000108 7/8 in	25,200lbs 1-1/32 in	1-1/32 in	1-1/32 in	1-1/32 in
Wire Rope Length	869 ft(main) 673 ft(aux)	771 ft(main) 525ft(aux)	853 ft(main) 755ft(aux)	902 ft(main) 837ft(aux)	1,575 ft(main) 1,280ft(aux)
Brake Type	Wet-type multiple disc brake	Wet-type multiple disc brake	Wet-type multiple disc brake	Wet-type multiple disc brake(Option)	Wet-type multiple disc brake(Option)
WORKING SPEED	Wot typo martiple also blake	vvot typo martipio aloo brako	vvot type martiple also brake	vvot typo manipio also brake(option)	vvot type martiple also brake(option)
Swing Speed	4.0 rpm	4.0 rpm	3.2 rpm	2.1 rpm	2.0 rpm
Travel Speed	1.07/0.71 mph	1.07/0.71 mph	0.86/0.62 mph	0.7/0.56 mph	0.69/0.43 mph
POWER PLANT					
Model	HINO J08E-UV	HINO J08E-UV	HINO J08E-UV	HINO P11C-VC	HINO P11C-VC
Engine Output	285 HP/2,100rpm	285 HP/2,100rpm	285 HP/2,100rpm	363 HP/1,850rpm	363 HP / 1,850 rpm
Fuel Tank	106 US Gal				
HYDRAULIC SYSTEM					
Main Pumps	3 variable displacement piston pumps	3 variable displacement piston pumps	3 variable displacement piston pumps	3 variable displacement piston pumps	4 variable displacement piston pumps
Max. Pressure	4,626 psi				
Hydraulic Tank Capacity	116.2 US Gal	116.2 US Gal	141.3 US Gal	141.3 US Gal	171.7 US Gal
SELF-REMOVAL DEVICE					
	counterweight/crawler self-removal device				
WEIGHT	(Option)	(Option)	(Standard)	(Standard)	(Standard)
Operating Weight	165,600lbs	198,500lbs	220,300lbs	304,200lbs	487,700lbs
Ground Pressure	103,000lbs 10.8 psi	130,300 lbs	220,300ibs 13.6 psi	11.7 psi	15.0 psi
Counterweight	57,800lbs	69,000lbs	76,300lbs	121,300lbs	199,300lbs
Transport Weight (Base Machine)	91,677lbs*1	95,128lbs*1	74,206lbs*2	84,193lbs* ³	99,760lbs* ⁴
DIMENSIONS					
Transportation Width	11'10"	11'10''	9'10"	9'10"	9'8" 11'1''
Transportation Height	10'11'' 17'2''		10'2''	12'2'' 20'8''	25'4"
Crawler Width Crawler Shoe Width	1 / Z	17'2''	17'5'' 2'11''	Δυ δ	25 4 4'4''
Crawler Slide Width			22'2''	25'11''	29'5''
Tail Swing Radius	20 / 14'9''		15'11''	18'	19'8''
Tan Swing nadius	14 5	10 10	1011	10	130