KOBELCO

SK210LC SK210NLC

We Save You Fuel
Achieving a Low-Carbon Society

Power Meets Efficiency

SK210LC SK210NLC


10%
Higher fuel efficiency means "Efficiency"
Increase in productivity means "Power"
Compared to S-mode on the SK210LC-9
To urban centers, and to mines around the world. Kobelco's all-out innovation brings you durable earth-friendly construction machinery that's equal to any task, at sites all over the planet. Increased power and even greater fuel economy bring higher efficiency to any project. Kobelco SK210LC machines are also more durable than ever, able to withstand the rigors of the toughest job sites. It all adds up to new levels of value that are a step ahead of the times. Also, this machine conforms to Stage IV Exhaust Emission Standards, thanks to its significantly reduced NOx* emissions. While focusing on the global environment of the future, Kobelco offers next-generation productivity to meet the need for lower life cycle costs and exceed the expectations of customers the world over.
* NOx: Nitrogen Oxide
GENERATION 10
KOBELCO
SK210

Evolution Continues, with Improved Fuel Efficiency

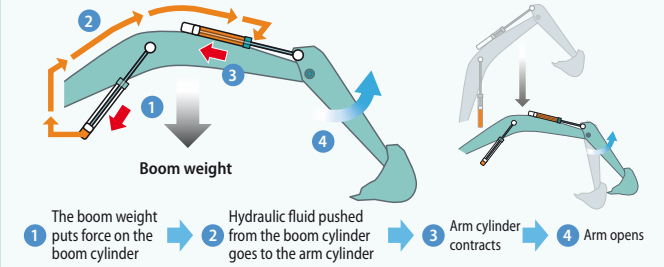
Hydraulic System: Revolutionary Technology Saves Fuel

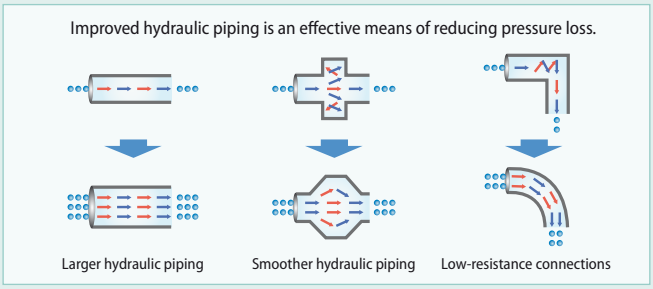
Arm Interflow System NEW

When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.

Hydraulic circuit reduces energy loss

We have made every effort to enhance fuel efficiency by minimizing hydraulic pressure resistance, improving the hydraulic line layout to control friction resistance loss and minimizing valve resistance.





In Pursuit of Improved Fuel Efficiency

Operation Mode

Fuel consumption is lower in ECO-mode/S-mode in comparison with the previous model (Generation 9).

■ Compared to previous models

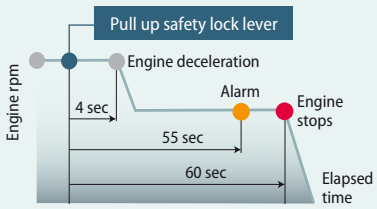
- E ECO-mode • • • About 6% improvement
- S S-mode • • • About 10% improvement
- H H-mode • • • About 2% improvement

Always and Forever.
Yesterday, Today, and Tomorrow.
Obsessed with Fuel Efficiency.

Over the past 10 years, Kobelco has achieved an average reduction of about 38% in fuel consumption. And we vow to continue to lead in fuel efficiency.

■ Compared to SK210LC-6 model (2006)

E ECO-mode (SK210LC-10) • • • About 38% improvement



AIS (Auto Idle Stop)

If the boarding/disembarking lever is left up, the engine will stop automatically.
This eliminates wasteful idling during standby, saving fuel and reducing CO_2 emissions as well.

10%
Higher fuel efficiency means "Efficiency"

The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency by about 10%*1. The engine, already well-known for its environmental performance has a new SCR*2 system, and its reduced NOx emissions means the engine now meets Stage IV Standards.

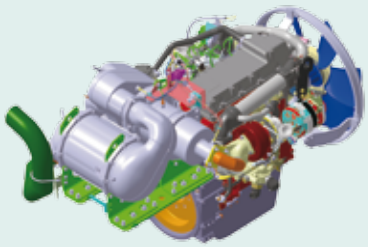
*1 Compared to S-mode on the SK210LC-9
*2 SCR: Selective Catalytic Reduction

Engine Meets Stage IV Standards

Reduces Fuel Consumption and Minimizes Exhaust Emissions

Hino engines are renowned for fuel efficiency and environmental performance, and Kobelco has tuned these powerplants especially for construction machinery. The pressure within the common rail fuel injection system, the VG turbo, and the exhaust gas after-treatment system reduce exhaust PM*3 while the large-capacity EGR cooler sharply reduces the formation of NOx gases.

*3 PM: Particulate Matter

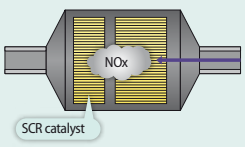


SCR System with DEF/AdBlue NEW

The engine exhaust system has an SCR system that converts NOx emissions into harmless nitrogen and water. Combining this with a post-exhaust gas treatment system that captures and disposes of PM, the SK210LC has a much cleaner exhaust that meets Stage IV exhaust emission standards.

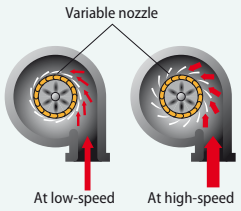
■ NOx reduction rate
(Compared to previous models)

About **88%** decrease



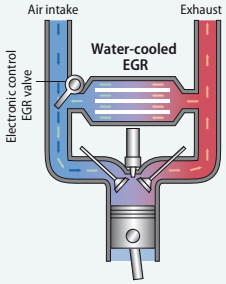
VG Turbo Reduces PM

The variable-geometry turbocharger adjusts air intake to maximize combustion efficiency. At low engine speeds the nozzles are closed, the turbo speed increased and air intake is boosted. This helps lower fuel consumption.



EGR Cooler Reduces Nox

While ensuring sufficient oxygen for combustion, cooled emission gases are mixed with the air intake and re-circulated into the engine. The lowered oxygen temperature lowers the combustion temperature and increases combustion efficiency.



More Power and Higher Efficiency

The highly efficient hydraulic system minimizes fuel consumption while maximizing power. With nimble movement and ample digging power, this excavator promises to improve your job productivity.

Improved fuel efficiency contributes to high performance

Superior Digging Volume

This excavator offers dynamic digging force even as it minimizes fuel consumption rates, achieving class-leading work volume. H-mode with an increased torque setting delivers about 7% greater digging volume.

■ Digging volume/hour
(Compared to H-mode on previous models)

■ Max. Bucket Digging Force

Normal: **143 kN**

With Power Boost: **157 kN**

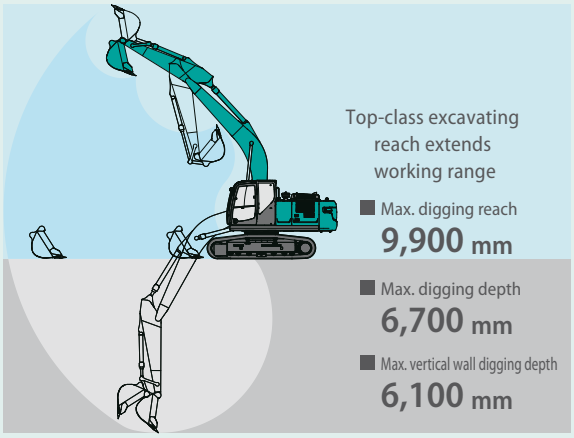
■ Max. Arm Crowding Force

Normal: **102 kN**

With Power Boost: **112 kN**

*Values are for HD arm (2.94 m)

Get More Done Faster with Superior Operability



Top-class excavating reach extends working range

■ Max. digging reach
9,900 mm

■ Max. digging depth
6,700 mm

■ Max. vertical wall digging depth
6,100 mm

*Values are for HD arm (2.94 m)

Piping for Quick Hitch
(optional)

A quick hitch hydraulic line, which speeds up attachment changes, is available as an option.

A Light Touch on the Lever Means Smoother, Less Tiring Work

NEW

It takes 25% less effort to work the operation lever, which reduces fatigue over long working hours or continued operations.

Top Class Traveling Force

Powerful traveling force and pulling force deliver plenty of speed when climbing slopes or negotiating bad roads, and the agility to change direction swiftly and smoothly.

■ Drawbar Pulling Force: **229 kN**

Operator-friendly Features Include Controls that Are Easy to See, Easy to Use

Multi-Display in Color

Brilliant colors and graphic displays are easy to recognize on the LCD multi-display in the console. The display shows fuel consumption, maintenance intervals, and more.

1. Analog gauge provides an intuitive reading of fuel level and engine water temperature
2. Green indicator light shows low fuel consumption during operation
3. PM accumulation display (left)/AdBlue level gauge (right)
4. Fuel consumption/Switch indicator for rear camera images
5. Digging mode switch
6. Monitor display switch

One-Touch Attachment Mode Switch

A simple flick of a switch converts the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.

PM accumulation/
AdBlue accumulation display

Fuel consumption

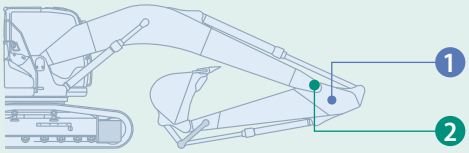
Maintenance

Breaker mode

Nibbler mode

Rearview monitoring

Increased Power, with Enhanced Durability to Maintain the Machine's Value



Built to Operate in Tough Working Environments

The attachment has been reinforced to handle a higher work volume, with greater power and excellent durability that can withstand demanding work conditions.

1 Enlarged Reinforcement of the Arm Foot

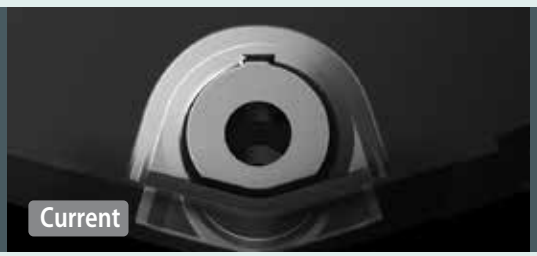
NEW

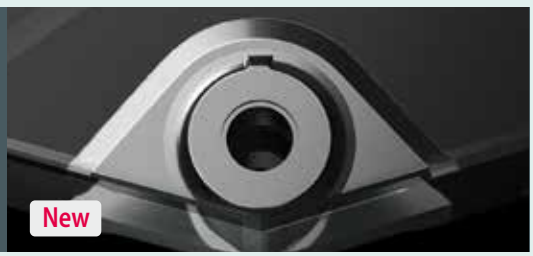
HD: Base plate thickness has been increased 1.3 times (20 t).

2 Modified Foot Boss Shape

NEW

The arm foot boss shape has been modified and improved to distribute stress, delivering 2.6 times more strength for tasks like digging next to a wall.





Increase in productivity means "Power"

Structural design increases strength, while eliminating hydraulic problems. Enhanced durability takes productivity to a new level.

Improved Filtration System Reliability

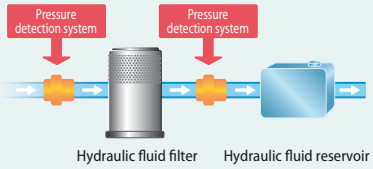
Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance. The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

Hydraulic Fluid Filter NEW

Recognized as the best in the industry, our super-fine filter separates out even the smallest particles. New cover prevents contamination when changing filters.

Hydraulic Fluid Filter Clog Detector NEW

Pressure sensors at the inlet and outlet of the hydraulic fluid filter monitor differences in pressure to determine the degree of clogging If the difference in pressure exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be removed from the filter before it reaches the hydraulic fluid reservoir.

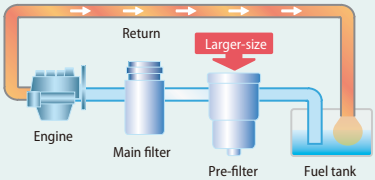


Double-Element Air Cleaner

The large-capacity element features a double-filter structure that keeps the engine running clean even in industrial environments.

Fuel Filter NEW

The pre-filter, with built-in water separator, is a new addition that features a final stage to maximize filtering performance.



Comfortable Cab Is Now Safer than Ever

A work environment that is quieter and more comfortable. A cab that puts the operator first is key to improved safety.

Comfort

Super-Airtight Cab

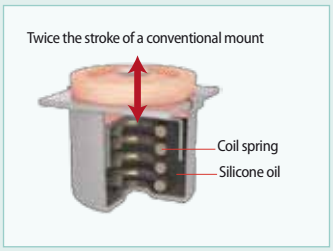
The high level of air-tightness keeps dust out of the cab.

Quiet Inside

The high level of air-tightness ensures a quiet, comfortable cabin interior.

Low Vibration

Coil springs absorb small vibrations, and high suspension mounts filled with silicone oil reduce heavy vibration. The long stroke achieved by this system provides excellent protection from vibration.



Broad View Liberates the Operator

The front window features one large piece of glass without a center pillar on the right side for a wide, unobstructed view.

Air Conditioner Register behind the Seat

NEW

The large air-conditioner has registers on the back pillars that blow from behind and to the right and left of the operator's seat. They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable operating environment.

More Comfortable Seat Means Higher Productivity

Seat suspension absorbs vibration

Seat recliner can be pushed back flat

Double slides allow adjustment for optimum comfort

Interior Equipment Adds to Comfort and Convenience

Automatic AM/FM radio

USB pin/24V power outlet

Spacious storage tray

Large cup holder

Large Cab Is Easy to Get in and out of

The expanded cab provides plenty of room for a large door, more headroom and smoother entry and exit.

Safety

ROPS Cab

ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.

TOP Guard is fitted as standard.

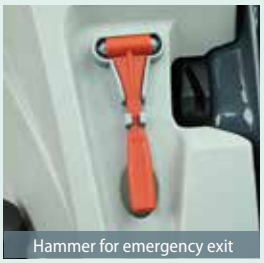
Expanded Field of View for Greater Safety

Rearview mirrors left and right/right-hand bottom clearance mirror

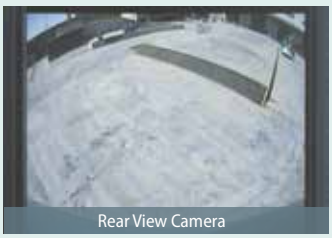
Greater safety assured by rearview mirrors on left and right, and a third mirror mounted at lower right.

Rear view

Rear view shows the area directly behind the cab.



Hammer for emergency exit



Rear View Camera

A rear view camera is installed as standard to simplify checking for safety behind the machine. The picture appears on the color monitor.

KOMEXS

KOBELCO MONITORING EXCAVATOR SYSTEM

Customer

KOBELCO office

KOBELCO service personnel

Remote Monitoring for Peace of Mind

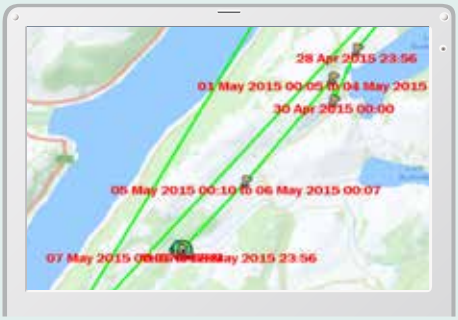
KOMEXS (Kobelco Monitoring Excavator System) uses satellite communication and internet to relay data, and therefore can be deployed in areas where other forms of communication are difficult. When a hydraulic excavator is fitted with this system, data on the machine's operation, such as operating hours, location, fuel consumption, and maintenance status can be obtained remotely.

Direct Access to Operational Status

Location Data

Accurate location data can be obtained even from sites where communications are difficult.

Latest location



Location records

Work data

Operating Hours

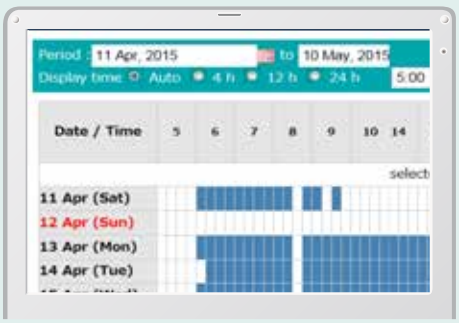
- A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.
- Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.

Fuel Consumption Data

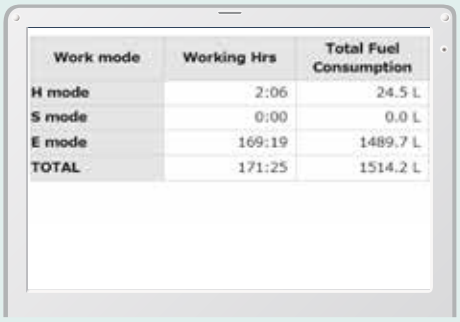
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

Graph of Work Content

The graph shows how working hours are divided among different operating categories, including digging, idling, traveling and optional operations.

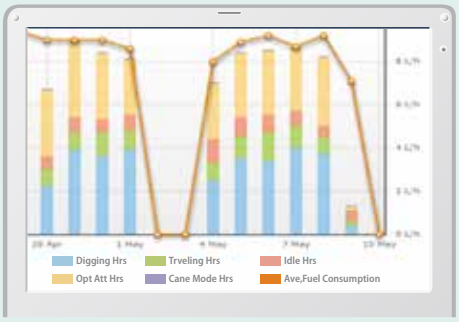


Daily report



Work mode	Working Hrs	Total Fuel Consumption
H mode	2:06	24.5 L
S mode	0:00	0.0 L
E mode	169:19	1489.7 L
TOTAL	171:25	1514.2 L

Fuel consumption

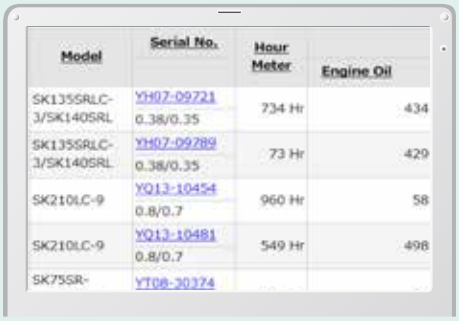


Work status

Maintenance Data and Warning Alerts

Machine Maintenance Data

- Provides maintenance status of separate machines operating at multiple sites.
- Maintenance data is also relayed to KOBELCO service personnel, for more efficient planning of periodic servicing.



Model	Serial No.	Hour Meter	Engine Oil
SK135SRLC-3/SK140SRL	YH07-09721 0.38/0.35	734 Hr	434
SK135SRLC-3/SK140SRL	YH07-09789 0.38/0.35	73 Hr	429
SK210LC-9	YQ13-10454 0.8/0.7	960 Hr	58
SK210LC-9	YQ13-10481 0.8/0.7	549 Hr	498
SK75SR-	YT08-20374		

Maintenance

Warning Alerts

This system warns an alert if an anomaly is sensed, preventing damage that could result in machine downtime.

Alarm Information Can Be Received through E-mail

Alarm information or maintenance notice can be received through E-mail, using a computer or cell phone.

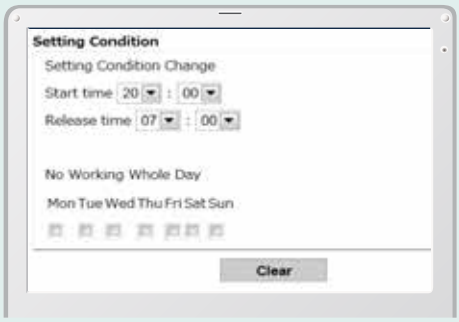
Daily/Monthly Reports

Operational data downloaded onto a computer helps in formulating daily and monthly reports.

Security System

Engine Start Alarm

An alarm can be set if the machine is operated outside designated time.



Engine start alarm outside prescribed work time

Area Alarm

An alarm can be set if the machine is moved out of its designated area to another location.

Alarm for outside of reset area

Easy, On-the-Spot Maintenance NEW

There is ample space in the engine compartment for a mechanic to do maintenance work inside. The distance between steps is lower so entry and exit is easier. And the mechanic can work in comfort, without contortions or unnatural body positions. Finally, the hood is lighter and easier to raise and lower.


Generous space for maintenance work


Step/Hand rail


DEF/AdBlue tank

Positioned where the step opens.

Maintenance Work, Daily Checks, Etc., Can Be Done from Ground Level

The layout allows for easy access from the ground for many daily checks and regular maintenance tasks.

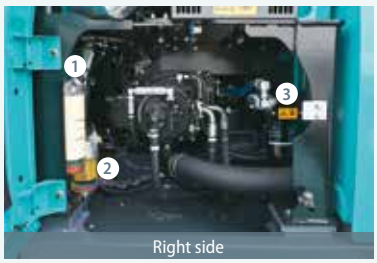

Double-element air cleaner


Fuel filter/Pre-filter


Engine oil filter


Left side

Laid out for easy access to radiator and cooling system elements



Right side

1. Fuel filter
2. Pre-filter
3. Engine oil filter

Efficient Maintenance Keeps the Machine in Peak Operating Condition

Examples of displaying maintenance information

Machine Information Display Function

- Displays only the maintenance information that's needed, when it's needed
- Self-diagnostic function provides early-warning detection and display of electrical system malfunctions
- Service-diagnostic function makes it easier to check the status of the machine
- Record function of previous breakdowns including irregular and transient malfunction

More Efficient Maintenance Inside the Cab

Easy-access fuse box

More finely differentiated fuses make it easier to locate malfunctions.

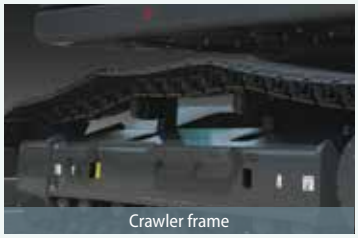
Air conditioner filters

Internal and external air conditioner filters can be easily removed without tools for cleaning.

DPF reactivation switch

If the monitor warning goes off, the filter should be reactivated manually using a switch.

Easy Cleaning



Crawler frame

Special crawler frame design is easily cleaned of mud.

Detachable two-piece floor mat

Detachable two-piece floor mat with handles for easy removal. A floor drain is located under floor mat.

Engine oil pan

Engine oil pan equipped with drain valve.

Long-life hydraulic oil: 5,000 hours

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Replacement cycle: 1,000 hours

Highly Durable Super-fine Filter

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability.

Specifications

Engine

Model	J05EUM-KSSC
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders	4
Bore and stroke	112 mm x 130 mm
Displacement	5.123 L
Rated power output	119 kW/2,000 min^{-1} (ISO 9249)
	124 kW/2,000 min^{-1} (ISO 14396)
Max. torque	640 N·m/1,600 min^{-1} (ISO 9249)
	660 N·m/1,600 min^{-1} (ISO 14396)

Hydraulic System

Pump	
Type	Two variable displacement pumps + one gear pump
Max. discharge flow	2 x 220 L/min, 1 x 20 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm^2}
Power Boost	37.8 MPa {385 kgf/cm^2}
Travel circuit	34.3 MPa {350 kgf/cm^2}
Swing circuit	29.0 MPa {296 kgf/cm^2}
Control circuit	5.0 MPa {50 kgf/cm^2}
Pilot control pump	Gear type
Main control valve	8-spool
Oil cooler	Air cooled type

Swing System

Swing motor	Axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Oil disc brake, hydraulic operated automatically
Swing speed	12.7 min^{-1} {rpm}
Tail swing radius	2,910 mm
Min. front swing radius	3,550 mm

Travel System

Travel motors	2 x axial-piston, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	49 each side
Travel speed	6.0/3.6 km/h
Drawbar pulling force	229 kN (ISO 7464)
Gradeability	70% {35°}

Cab & Control

Cab
All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil and equipped with a heavy, insulated floor mat.
Control
Two hand levers and two foot pedals for travel
Two hand levers for excavating and swing
Electric rotary-type engine throttle

Noise levels	
External	100 dB(A)
Operator	66 dB(A)

Boom, Arm & Bucket

Boom cylinders	120 mm x 1,355 mm
Arm cylinder	135 mm x 1,558 mm
Bucket cylinder	120 mm x 1,080 mm

Refilling Capacities & Lubrications

Fuel tank	320 L
Cooling system	19 L
Engine oil	20.5 L
Travel reduction gear	2 x 5.3 L
Swing reduction gear	2.7 L
Hydraulic oil tank	140 L tank oil level
	244 L hydraulic system
DEF/AdBlue tank	83 L

Attachments

Backhoe bucket and combination

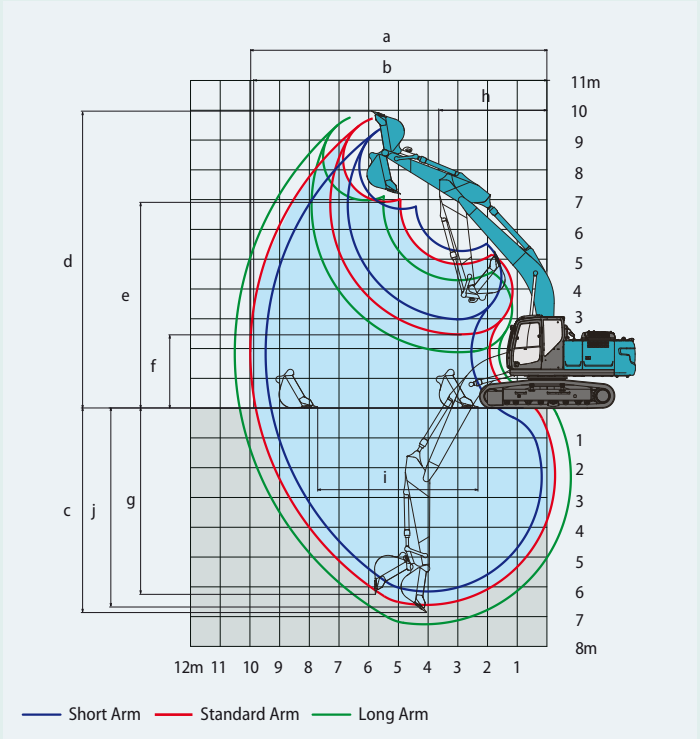
Type			Backhoe bucket	
Bucket capacity	SAE heaped	m^3 (cu yd)	0.70 (0.92)	0.80 (1.05)
	SAE Struck	m^3 (cu yd)	0.52 (0.68)	0.59 (0.77)
Opening width	With side cutter	mm	1,080	1,160
	Without side cutter	mm	980	1,140
No. of teeth			5	5
Can be turned over	2.4 m/3.5 m arm		Yes	Yes
	2.94 m arm		No	No
Bucket weight		kg	630	660
Combination	2.4 m short arm		○	○
	2.94 m standard arm		○	◎
	3.5 m long arm		◎	△

◎ Standard combination ○ General operation △ Light operation

Working Ranges

Unit: m

Boom	5.65 m		
Arm / Range	Short 2.4 m	Standard 2.94 m	Long 3.5 m
a- Max. digging reach	9.42	9.9	10.34
b- Max. digging reach at ground level	9.24	9.73	10.17
c- Max. digging depth	6.16	6.7	7.26
d- Max. digging height	9.51	9.72	9.75
e- Max. dumping clearance	6.68	6.91	6.97
f- Min. dumping clearance	2.98	2.43	1.87
g- Max. vertical wall digging depth	5.57	6.1	6.47
h- Min. swing radius	3.56	3.55	3.48
i- Horizontal digging stroke at ground level	4.08	5.27	6.08
j- Digging depth for 2.4 m (8') flat bottom	5.95	6.52	7.08
Bucket capacity ISO heaped m³	0.93	0.8	0.7



Digging Force (ISO 6015)

Unit: kN

Arm length	Short 2.4 m	Standard 2.94 m	Long 3.5 m
Bucket digging force	143 157*	143 157*	143 157*
Arm crowding force	121 133*	102 112*	91.8 101*

*Power Boost engaged

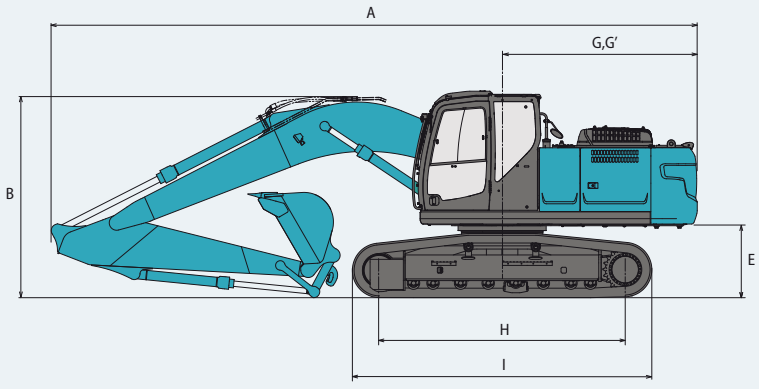
Dimensions

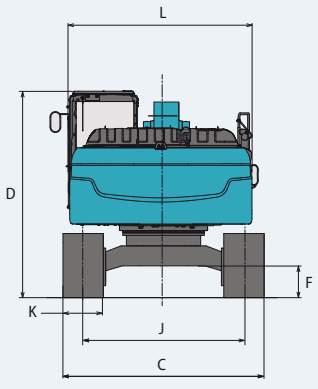
Unit: mm

Arm length			Short 2.4 m	Standard 2.94 m	Long 3.5 m
A	Overall length		9,680	9,600	9,670
B	Overall height (to top of boom)		3,150	2,980	3,170
C	Overall width of crawler	SK210LC	2,990		
		SK210NLC	2,800		
D	Overall height (to top of cab)		3,060		
E	Ground clearance of rear end*		1,060		
F	Ground clearance*		450		
G	Tail swing radius		2,910		

G'	Distance from center of swing to rear end		2,900
H	Tumbler distance	SK210LC	3,660
		SK210NLC	3,660
I	Overall length of crawler	SK210LC	4,450
		SK210NLC	4,450
J	Track gauge	SK210LC	2,390
		SK210NLC	2,200
K	Shoe width		600
L	Overall width of upperstructure		2,710

*Without including height of shoe



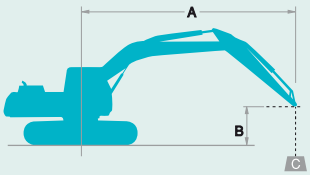


Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.8 m³ ISO heaped bucket

Shaped			Triple grouser shoes (even height)			
Shoe width		mm	600	700	800	900
Overall width of crawler	SK210LC	mm	2,990	3,090	3,180	3,290
	SK210NLC	mm	2,800	2,900	2,990	—
Ground pressure	SK210LC	kPa	45	39	35	31
	SK210NLC	kPa	45	39	35	—
Operating weight	SK210LC	kg	21,700	22,100	22,300	22,600
	SK210NLC	kg	21,600	22,100	22,300	—

Lifting Capacities



Rating over front

Rating over side or 360 degrees

A: Reach from swing centerline to arm top
B: Arm top height above/below ground
C: Lifting capacities in Kilograms
Bucket: Without bucket
Relief valve setting: 37.8 MPa (385 kgf/cm²)

SK210LC Boom: 5.65 m Arm: 2.94 m Bucket: without Shoe: 600 mm (Heavy Lift)

A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg							*5,330	*5,330			*4,300	*4,300	6.26 m
6.0 m	kg							*5,940	5,490			*3,980	3,880	7.36 m
4.5 m	kg							*6,490	5,300	5,680	3,710	*3,890	3,300	8.03 m
3.0 m	kg					*9,450	7,690	*7,360	5,030	5,550	3,600	*3,970	3,010	8.38 m
1.5 m	kg					*11,150	7,140	7,580	4,760	5,410	3,470	*4,200	2,910	8.45 m
G.L.	kg			*6,370	*6,370	11,660	6,840	7,370	4,580	5,300	3,370	4,630	2,960	8.25 m
-1.5 m	kg	*6,730	*6,730	*11,090	*11,090	11,560	6,760	7,280	4,500	5,280	3,350	5,050	3,220	7.75 m
-3.0 m	kg	*11,760	*11,760	*14,800	13,300	*10,660	6,830	7,330	4,550			6,020	3,810	6.89 m
-4.5 m	kg			*11,000	*11,000	*8,060	7,080					*6,070	5,360	5.50 m

SK210LC Boom: 5.65 m Arm: 3.5 m Bucket: without Shoe: 600 mm (Heavy Lift)

A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg											*3,680	*3,680	6.84 m
6.0 m	kg									*4,580	3,800	*3,470	*3,470	7.86 m
4.5 m	kg							*5,890	5,350	*5,490	3,720	*3,430	2,990	8.49 m
3.0 m	kg			*12,930	*12,930	*8,540	7,830	*6,800	5,050	5,540	3,580	*3,530	2,740	8.82 m
1.5 m	kg			*7,270	*7,270	*10,440	7,190	7,570	4,750	5,370	3,420	*3,750	2,630	8.89 m
G.L.	kg			*7,760	*7,760	*11,590	6,780	7,310	4,520	5,230	3,300	*4,150	2,670	8.70 m
-1.5 m	kg	*6,600	*6,600	*10,990	*10,990	11,420	6,620	7,170	4,390	5,170	3,240	4,540	2,860	8.22 m
-3.0 m	kg	*10,510	*10,510	*15,910	12,940	*11,070	6,640	7,170	4,390			5,280	3,320	7.42 m
-4.5 m	kg	*15,610	*15,610	*12,770	*12,770	*9,150	6,820	*6,470	4,550			*6,160	4,400	6.16 m

SK210LC Boom: 5.65 m Arm: 2.4 m Bucket: without Shoe: 600 mm (Heavy Lift)

A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg									*6,370	6,060	5.58 m
6.0 m	kg					*6,570	5,420			*5,800	4,390	6.80 m
4.5 m	kg			*8,380	8,160	*7,030	5,260	5,650	3,690	5,610	3,670	7.52 m
3.0 m	kg			*10,230	7,560	*7,820	5,000	5,550	3,610	5,120	3,330	7.89 m
1.5 m	kg			*11,680	7,080	7,570	4,770	5,440	3,500	4,970	3,210	7.97 m
G.L.	kg			11,680	6,880	7,400	4,620	5,370	3,440	5,130	3,290	7.75 m
-1.5 m	kg	*11,480	*11,480	*11,550	6,860	7,370	4,590			5,670	3,620	7.22 m
-3.0 m	kg	*13,350	*13,350	*10,030	6,990	*7,310	4,700			*6,700	4,440	6.29 m
-4.5 m	kg			*6,360	*6,360					*5,820	*5,820	4.72 m

SK210NLC Boom: 5.65 m Arm: 2.94 m Bucket: without Shoe: 600 mm (Heavy Lift)

A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg							*5,330	5,070			*4,300	*4,300	6.26 m
6.0 m	kg							*5,940	5,060			*3,980	3,570	7.36 m
4.5 m	kg							*6,490	4,880	5,670	3,420	*3,890	3,030	8.03 m
3.0 m	kg					*9,450	7,010	*7,360	4,610	5,540	3,300	*3,970	2,760	8.38 m
1.5 m	kg					*11,150	6,470	7,560	4,350	5,400	3,170	*4,200	2,660	8.45 m
G.L.	kg			*6,370	*6,370	11,630	6,180	7,350	4,170	5,290	3,080	4,620	2,710	8.25 m
-1.5 m	kg	*6,730	*6,730	*11,090	*11,090	11,540	6,100	7,260	4,100	5,270	3,060	5,040	2,940	7.75 m
-3.0 m	kg	*11,760	*11,760	*14,800	11,770	*10,660	6,180	7,320	4,140			6,010	3,480	6.89 m
-4.5 m	kg			*11,000	*11,000	*8,060	6,420					*6,070	4,890	5.50 m

SK210NLC Boom: 5.65 m Arm: 3.5 m Bucket: without Shoe: 600 mm (Heavy Lift)

A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg											*3,680	*3,680	6.84 m
6.0 m	kg									*4,580	3,500	*3,470	3,200	7.86 m
4.5 m	kg							*5,890	4,930	*5,490	3,420	*3,430	2,740	8.49 m
3.0 m	kg			*12,930	*12,930	*8,540	7,140	*6,800	4,630	5,530	3,280	*3,530	2,500	8.82 m
1.5 m	kg			*7,270	*7,270	*10,440	6,520	7,560	4,330	5,360	3,130	*3,750	2,400	8.89 m
G.L.	kg			*7,760	*7,760	*11,590	6,120	7,290	4,110	5,220	3,000	*4,150	2,430	8.70 m
-1.5 m	kg	*6,600	*6,600	*10,990	*10,990	11,390	5,970	7,160	3,990	5,150	2,940	4,530	2,600	8.22 m
-3.0 m	kg	*10,510	*10,510	*15,910	11,410	*11,070	5,980	7,160	3,990			5,270	3,020	7.42 m
-4.5 m	kg	*15,610	*15,610	*12,770	11,770	*9,150	6,160	*6,470	4,140			*6,160	4,010	6.16 m

SK210NLC		Boom: 5.65 m Arm: 2.4 m Bucket: without Shoe: 600 mm (Heavy Lift)										
A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
												
7.5 m	kg									*6,370	5,590	5.58 m
6.0 m	kg					*6,570	5,000			*5,800	4,040	6.80 m
4.5 m	kg			*8,380	7,470	*7,030	4,840	5,630	3,390	5,600	3,380	7.52 m
3.0 m	kg			*10,230	6,880	*7,820	4,590	5,540	3,310	5,110	3,050	7.89 m
1.5 m	kg			*11,680	6,420	7,550	4,360	5,430	3,210	4,960	2,940	7.97 m
G.L.	kg			11,660	6,220	7,390	4,220	5,360	3,140	5,120	3,010	7.75 m
-1.5 m	kg	*11,480	*11,480	*11,550	6,200	7,350	4,180			5,660	3,310	7.22 m
-3.0 m	kg	*13,350	12,040	*10,030	6,330	*7,310	4,290			*6,700	4,060	6.29 m
-4.5 m	kg			*6,360	*6,360					*5,820	*5,820	4.72 m

Notes:

1. Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift capacities.
2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.
3. Arm top defined as lift point.
4. The above lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Lifting capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
5. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.
6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

2 Piece Boom Specifications

Working Ranges

Unit: m

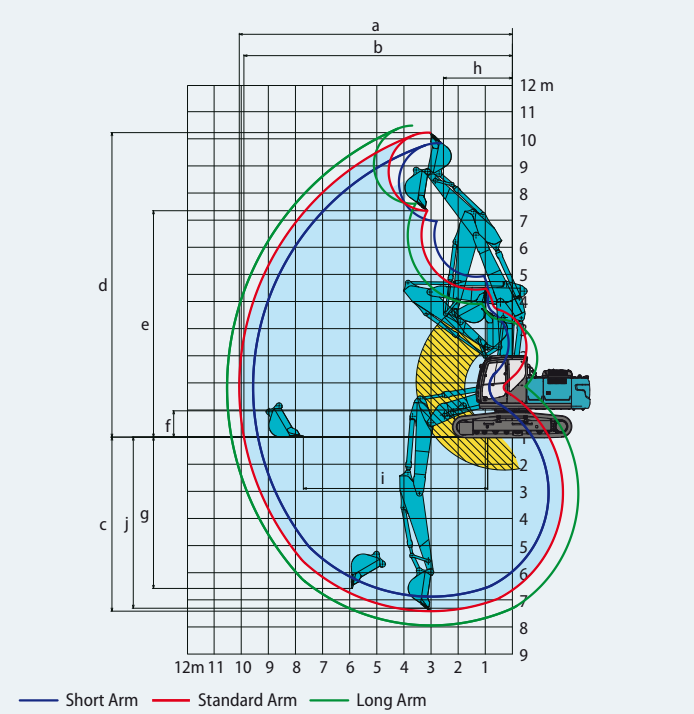
Boom	3.16 m + 2.63 m		
Arm / Range	Short 2.4 m	Standard 2.94 m	Long 3.5 m
a- Max. digging reach	9.57	10.07	10.53
b- Max. digging reach at ground level	9.39	9.9	10.37
c- Max. digging depth	5.89	6.42	6.93
d- Max. digging height	10.83	11.23	11.5
e- Max. dumping clearance	7.95	8.35	8.62
f- Min. dumping clearance	1.51	0.97	0.41
g- Max. vertical wall digging depth	5.08	5.58	6.02
h- Min. swing radius	2.76	2.55	2.72
i- Horizontal digging stroke at ground level	5.77	6.8	7.8
j- Digging depth for 2.4 m (8') flat bottom	5.78	6.31	6.83
Bucket capacity ISO heaped m³	0.93	0.8	0.7

Digging Force (ISO 6015)

Unit: kN

Arm length	Short 2.4 m	Standard 2.94 m	Long 3.5 m
Bucket digging force	143 157*	143 157*	143 157*
Arm crowding force	121 133*	102 112*	91.8 101*

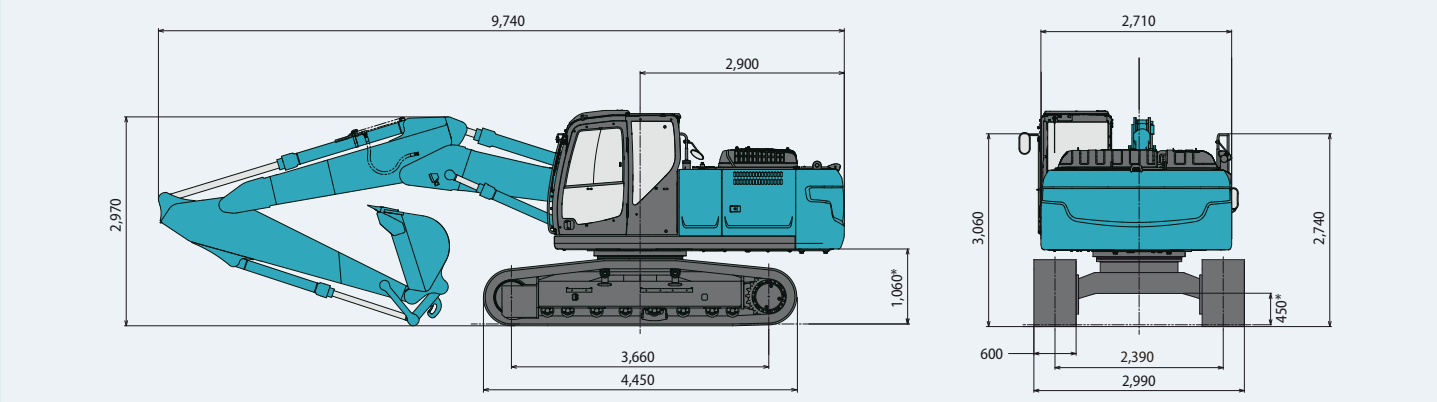
*Power Boost engaged



The area marked with diagonal lines shows the warning zone of the cab protection device.

Dimensions

Unit: mm

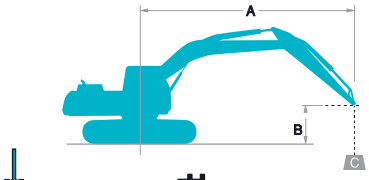


*Without including height of shoe lug.

Lifting Capacities

SK210LC	Boom: 2 piece boom	Arm: 2.94 m	Bucket: without	Shoe: 600 mm (Heavy Lift)								
A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
9.0 m	kg			*5,900	*5,900					*4,940	*4,940	4.74 m
7.5 m	kg			*6,790	*6,790	*5,800	5,450			*4,050	*4,050	6.49 m
6.0 m	kg			*6,880	*6,880	*4,680	*4,680	*4,120	3,620	*3,710	3,560	7.55 m
4.5 m	kg	*10,480	*10,480	*9,190	8,230	*7,660	5,180	*4,840	3,570	*3,590	3,020	8.21 m
3.0 m	kg	*16,430	*14,270	*10,840	7,450	7,770	4,850	*4,750	3,430	*3,620	2,740	8.55 m
1.5 m	kg	*17,930	12,750	*11,600	6,780	7,400	4,520	*5,070	3,270	*3,790	2,620	8.62 m
G. L.	kg	*14,920	12,350	*11,250	6,440	7,160	4,300	5,140	3,160	*4,120	2,640	8.42 m
-1.5 m	kg	*10,010	*10,010	*9,880	6,370	7,060	4,220	5,120	3,070	*4,650	2,850	7.93 m
-3.0 m	kg	*8,660	*8,660	*7,480	6,480	5,680	4,210			*3,700	3,370	7.10 m

SK210NLC	Boom: 2 piece boom	Arm: 2.94 m	Bucket: without	Shoe: 600 mm (Heavy Lift)								
A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
9.0 m	kg			*5,900	*5,900					*4,940	*4,940	4.74 m
7.5 m	kg			*6,790	*6,790	*5,800	5,010			*4,050	*4,050	6.49 m
6.0 m	kg			*6,880	*6,880	*4,680	*4,680	*4,120	3,310	*3,710	*3,260	7.55 m
4.5 m	kg	*10,480	*10,480	*9,190	7,510	*7,660	4,750	5,590	3,260	*3,590	*2,750	8.21 m
3.0 m	kg	*16,430	12,640	*10,840	6,760	7,750	4,420	5,430	3,120	*3,620	*2,490	8.55 m
1.5 m	kg	*17,930	11,190	*11,600	6,110	7,390	4,100	*5,250	2,970	*3,790	*2,370	8.62 m
G. L.	kg	*14,930	10,820	*11,250	5,770	7,140	3,890	5,130	2,860	*4,120	2,390	8.42 m
-1.5 m	kg	*10,010	*10,010	*9,880	5,700	7,050	3,810	5,100	2,770	*4,650	2,580	7.93 m
-3.0 m	kg	*8,660	*8,660	5,810	*7,480	5,680	3,790			*3,700	3,050	7.10 m



Rating over front Rating over side or 360 degrees

A: Reach from swing centerline to arm top
B: Arm top height above/below ground
C: Lifting capacities in kilograms
Bucket: Without bucket
Relief valve setting: 37.8 MPa {385kgf/cm^2}

Note:
1. Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift capacities.
2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.
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6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

STANDARD EQUIPMENT

ENGINE
- Engine, HINO J05EUM-KSSC, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V - 96Ah)
- Starting motor (24V - 5 kW), 60 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner

CONTROL
- Working mode selector (H-mode, S-mode and ECO-mode)
- Power Boost
- Heavy lift

SWING SYSTEM & TRAVEL SYSTEM
- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake

HYDRAULIC
- Arm regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler

MIRRORS & LIGHTS
- Three rearview mirrors
- Three front working lights

CAB & CONTROL
- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Automatic air conditioner
- Emergency escape hammer
- Suspension seat
- Radio, AM/FM stereo with speaker
- TOP guard

OPTIONAL EQUIPMENT

- Various optional arms
- Wide range of shoes
- Additional track guide
- Object Handling Kit (boom and arm safety valve + hook)
- Additional hydraulic circuit
- Two cab lights
- Air suspension seat
- Rain visor (may interfere with bucket action)

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

Note: This catalog may contain attachments and optional equipment that are not available in your area. And it may contain photographs of machines with specifications that differ from those of machines sold in your areas. Please consult your nearest KOBELCO distributor for those items you require.
Specialist equipment is needed to use this machine in demolition work. Before using it please contact your KOBELCO dealer.
Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice.

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