Lift Capacities

SK215LC		Boom: 5.65 m, Arm: 2.40 m, Bucket: Without, Shoe: 600 mm, Counterweight: 3,320 kg										
A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
6.0 m	kg					*6,630	4,680			*5,810	3,760	6.80 m
4.5 m	kg			*8,450	7,060	*7,100	4,520	4,930	3,150	4,900	3,130	7.52 m
3.0 m	kg			*10,340	6,490	6,860	4,280	4,850	3,070	4,460	2,830	7.89 m
1.5 m	kg			10,430	6,040	6,610	4,060	4,740	2,970	4,330	2,720	7.97 m
G. L.	kg			10,200	5,850	6,450	3,930	4,670	2,910	4,460	2,790	7.75 m
-1.5 m	kg	*11,530	11,410	10,180	5,840	6,420	3,900			4,940	3,080	7.21 m
-3.0 m	kg	*13,520	11,640	*10,150	5,960	6,540	4,000			6,130	3,780	6.28 m
-4.5 m	kg			*6,440	6,300					*5,920	*5,920	4.71 m

SK215LC		Boom: 5.65 m, Arm: 2.94 m, Bucket: Without, Shoe: 600 mm, Counterweight: 3,320 kg										
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							*5,360	4,760			*4,310	*4,310	6.26 m
6.0 m	kg							*6,010	4,740			*3,990	3,320	7.36 m
4.5 m	kg							*6,570	4,570	4,970	3,180	*3,910	2,810	8.03 m
3.0 m	kg					*9,560	6,630	6,910	4,320	4,850	3,070	*3,980	2,560	8.38 m
1.5 m	kg					10,530	6,120	6,630	4,070	4,720	2,950	3,940	2,460	8.45 m
G. L.	kg			*6,390	*6,390	10,200	5,840	6,430	3,900	4,620	2,860	4,030	2,510	8.25 m
-1.5 m	kg	*6,770	*6,770	*11,120	*11,120	10,100	5,760	6,350	3,830	4,600	2,840	4,400	2,730	7.75 m
-3.0 m	kg	*11,790	*11,790	*15,010	11,410	10,190	5,830	6,400	3,870			5,260	3,250	6.89 m
-4.5 m	kg			*11,180	*11,180	*8,190	6,070					*6,180	4,600	5.49 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 lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
5. Operator should be fully acquainted with the Operator 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.
7. The above figures indicate machine capacity, but in practice the machine should not be used for lifting loads.

STANDARD EQUIPMENT

ENGINE
- Engine, CUMMINS B4.5, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12 V - 130 Ah)
- Starting motor (24 V - 4.5 kW), 100 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Double element air cleane
- Auto warm up system

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

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
- Aluminum hydraulic oil cooler
- Arm interflow system
- Hydraulic fluid filter clog detector

MIRRORS & LIGHTS
- Two rear view mirrors
- One boom light (LED)
- One storage box light (LED)
- One cab light (LED)

CAB & CONTROL
- Cab, all-weather sound suppressed type
- Two control levers, pilot-operated
- Horn, electric
- Cab light (interior)
- Coat hook
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Fuel level indicator
- Engine coolant temp indicator
- Engine oil pressure warning
- Automatic air conditioner
- Air cleaner clogging warning
- Emergency escape hammer
- GEOSCAN
- Two speakers
- 24V outlet
- Suspension seat

OPTIONAL EQUIPMENT

- Various optional arms
- Various optional buckets
- 800 mm shoes
- Refilling pump
- Top guard
- Front guard
- Travel alarm
- Grease gun
- Filter wrench
- Toolbox
- One counterweight light (LED)
- Breaker piping

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 area. 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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Inquiries To:

SK210-10E_SK215LC-10E_IND_1E_2609

KOBELCO

SK210 SK215LC

- **Bucket Capacity :** 0.93 - 1.05 m³ (ISO heaped)
- **Engine Power :** 150 HP (112 kW)/2,000 min⁻¹ (ISO 14396)
- **Operating Weight :** 19,600 - 20,600 kg



Power Meets Efficiency

19%*
Higher fuel saving means "Efficiency"

Increase in productivity means "Power"

*in ECO-mode compared to S-mode in the SK210HDLC-8

To urban centers and mines around the world.
Kobelco's innovative technology delivers earth-friendly construction machinery suitable for a wide range of tasks and job sites across the globe. With greater fuel economy, we deliver higher efficiency to every project.
The SK210 and SK215LC are designed to meet diverse job site requirements with excellent performance and operability, creating new levels of value that are a step ahead of the times.
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 globally.

GENERATION 10

Long-life hydraulic oil:
6,000 hours

Hydraulic Filter Replacement Cycle:
2,000 hours

Significantly extended hydraulic oil and hydraulic filter service intervals.
Reduced maintenance workload and effort, while minimizing downtime and contributing to higher operational efficiency on site.
It is applicable for bucket application.

Hydraulic Oil Replacement Interval: **+20%**
Hydraulic Oil Filter Replacement Interval: **+100%**

SK210 SK215LC

Evolution Continues, with Improved Fuel Efficiency.

19%*
Higher fuel saving means "Efficiency"

The new arm interflow system efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency by about 19%*. The electronic control and common-rail engine, features high pressure fuel injection and multiple injection with improved precision.

*in ECO-mode compared to S-mode in the SK210HDLC-8

In Pursuit of Improved Fuel Efficiency

Operation Mode

Fuel consumption is lower in H-mode/S-mode/ECO-mode in comparison with the previous model (Generation 8).

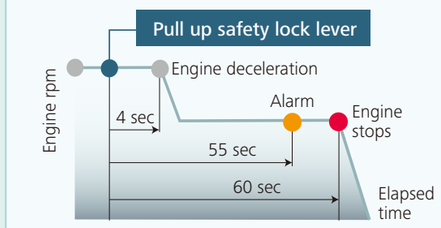
■ Compared to previous models



- **H** H-mode ・・・About 16% improvement
- **S** S-mode ・・・About 14% improvement
- **E** ECO-mode ・・・About 19% improvement

AIS (Auto Idle Stop)

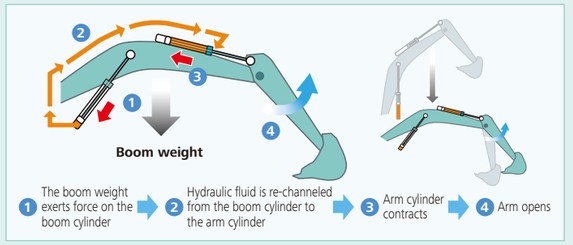
If the safety lock lever is lifted up, the engine will stop automatically. This eliminates wasteful idling during standby, saves fuel and reduces CO_2 emissions as well.



Hydraulic System: Revolutionary Technology Saves Fuel

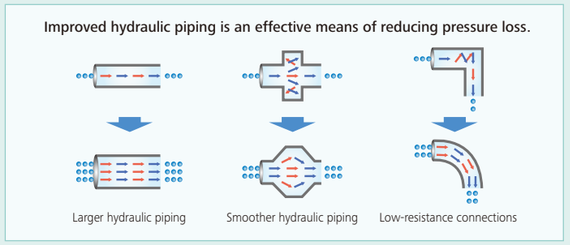
Arm Interflow System

When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the 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.



Pursuing Maximum Fuel Efficiency

Common Rail System

High-pressure injection atomizes the fuel, and precise injection improves combustion efficiency. This also contributes to better fuel economy.



Breaker Piping (Optional)

Piping for Breaker is fitted as optional.



More Power and Higher Efficiency.

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

Improved Fuel Efficiency Contributes to High Performance

Superior Digging Performance

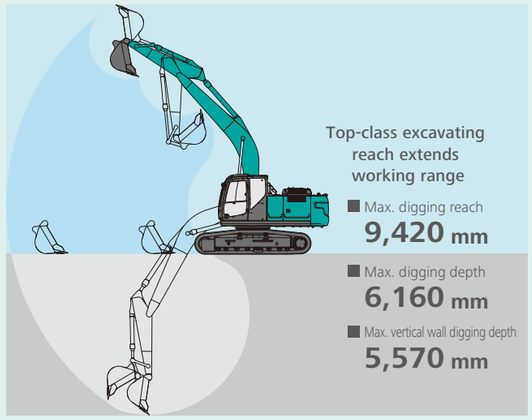
Powerful digging force delivers outstanding performance.

Max. Bucket Digging Force		Max. Arm Crowding Force	
Normal:	143 kN	Normal:	121 kN
With power boost:	157 kN	With power boost:	133 kN

*Values are for 2.40 m arm



Superior Operability, Faster Productivity



*Values are for 2.40 m arm

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

It takes 38% less effort to work with the operation lever, which reduces fatigue over long working hours or continued operations.



Top Class Traveling Force

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

Drawbar Pulling Force: **229 kN** (SAE)



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. Digital gauge provides an intuitive reading of fuel level and engine water temperature
2. Fuel consumption
3. Digging mode switch
4. Monitor display switch

One-Touch Attachment Mode Switch

A simple touch of a button, switches the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.



Fuel consumption



Breaker mode



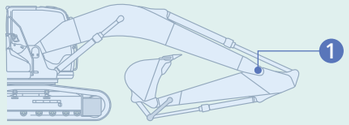
Maintenance

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

Increase in productivity means "Power"

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





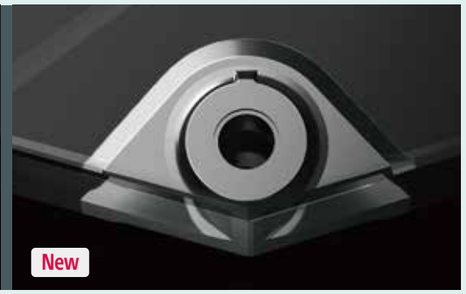
Built to Operate in Tough Working Environments

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

1 Modified Foot Boss Shape

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.





*Compared with the -8 model

Improved Reliability of Filtration System

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

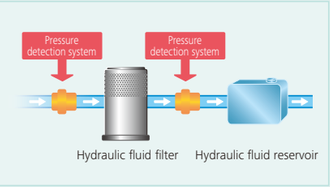
Hydraulic Fluid Filter NEW

Recognized as the best in the industry, our Long-life Premium Filter separates out even the smallest particles. New cover prevents contamination when changing filters.



Hydraulic Fluid Filter Clog Detector

Hydraulic tank pressure sensor monitors the pressure difference between the return line and tank's inside pressure to determine the degree of clogging. If the difference exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be trapped inside the filter and it can replace the trapped contamination before it reaches the hydraulic oil in the tank.



Pilot Filter NEW

Removes fine contaminants to help protect hydraulic components, while the cartridge-type design improves serviceability.



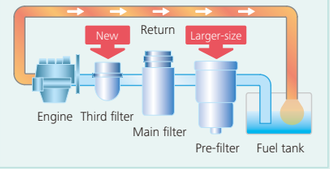
Metal Mesh Cover Air Cleaner

Metal mesh cover ensures strength and durability.

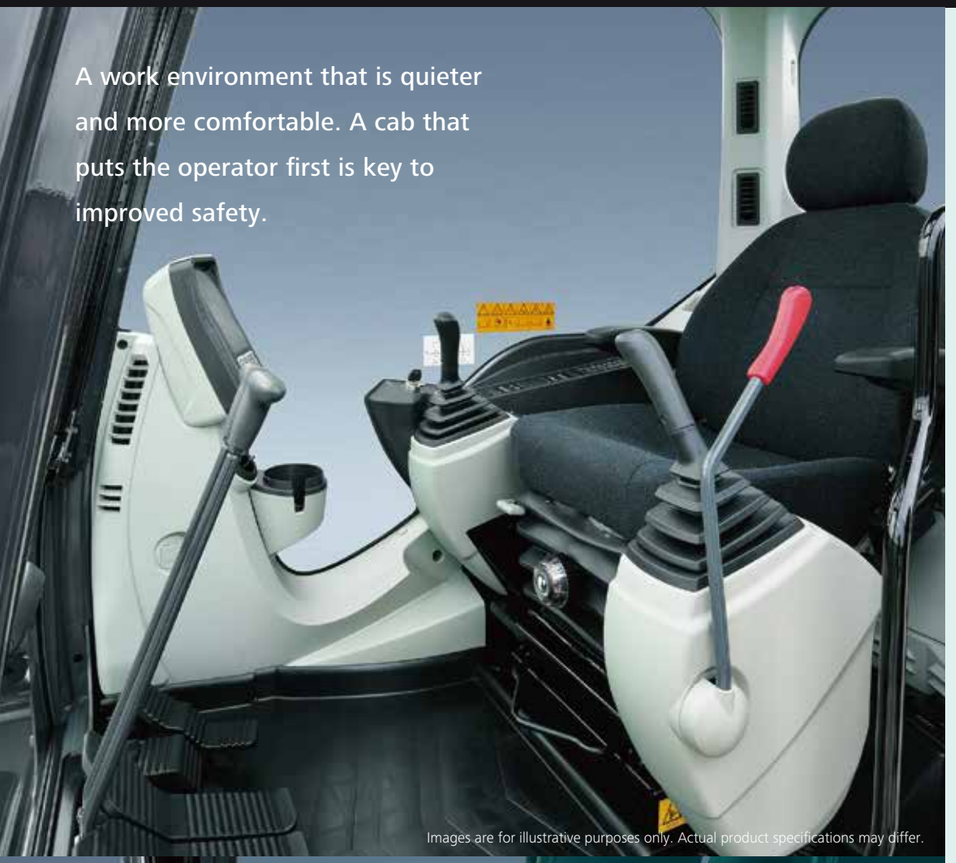


Fuel Filter

The combination of a pre-filter with a built-in water separator and a newly adopted maintenance-free third fuel filter delivers excellent filtration performance.

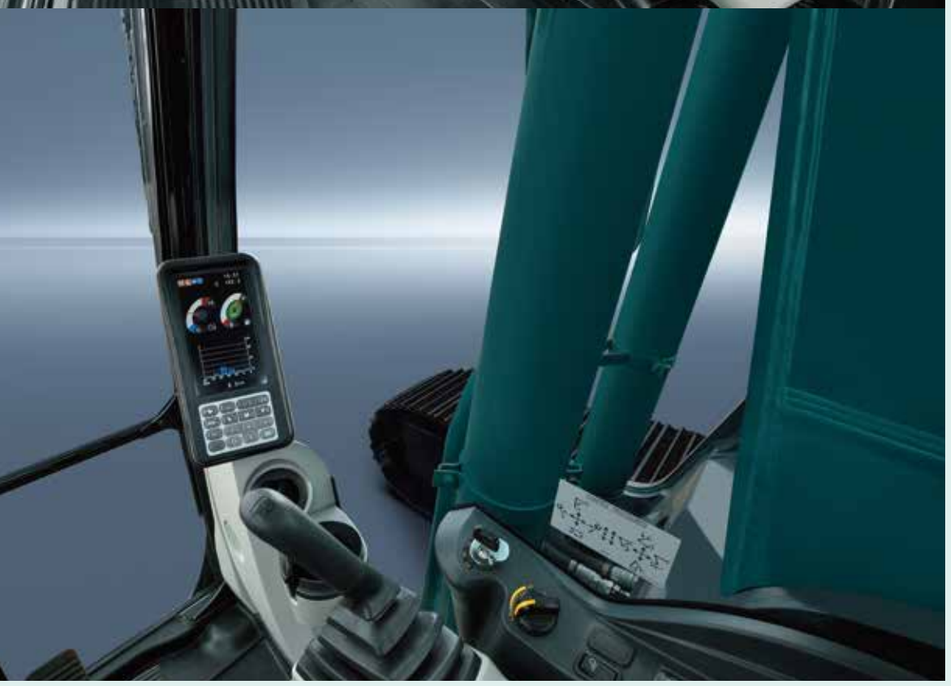


Comfortable Cab Is Now Safer than Ever.



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

Images are for illustrative purposes only. Actual product specifications may differ.



Wide View for Operator Comfort

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

Comfort

Super-Airtight Cab



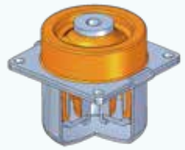
The high level of air-tightness keeps dust out of the cab.

Quiet Inside

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

Low Vibration

Equipped with viscous mounts. Effectively absorb and damp vibrations, reducing those transmitted to the cab and contributing to improved operator comfort.



Air Conditioner Louvers behind the Seat



The large air-conditioner has louvers on the back pillars that blow air from behind 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

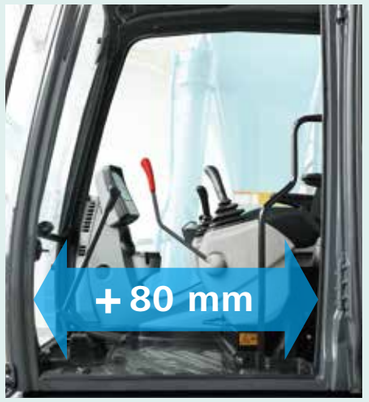


Seat recliner can be pushed back flat



Double slides allow adjustment for optimum comfort

Images are for illustrative purposes only. Actual product specifications may differ.



Large Cab Is Easy to Get in and Out of

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

Interior Equipment Adds to Comfort and Convenience



Spacious storage tray



Large cup holder

Safety

Expanded Field of View for Greater Safety



Rearview mirrors left and right

Greater safety assured by rearview mirrors on left and right.



Rear view

Rear view shows the area directly behind the cab.



Hammer for emergency exit



LED Lights

Cab, boom and storage box lights have been upgraded to LED. In addition, an optional LED light is available on the counterweight, enhancing visibility during nighttime and low-light operations and contributing to improved safety.

Efficient Maintenance Keeps the Machine in Peak Operating Condition.





Example for maintenance information display

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

Easy, On-the-Spot Maintenance

There is ample space in the engine compartment for a mechanic to do maintenance work inside. The distance between steps is less for easy entry and exit. And the mechanic can work in comfort, without contortions or uncomfortable positions. Finally, the engine hood is light in weight and easy to lift and drop.


Sufficient space for maintenance work

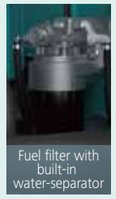

Steps


Handrail

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

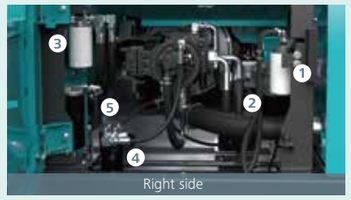
The layout allows for easy access from the ground for many daily checks and regular maintenance tasks.


Double-element air cleaner

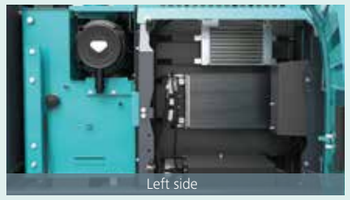

Fuel filter with built-in water-separator


Main fuel filter


Third filter



Right side


Left side

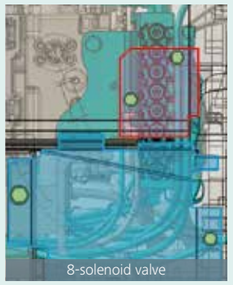
1. Main fuel filter
2. Fuel filter with built-in water-separator
3. Engine oil filter
4. Pilot filter
5. Third filter

Simple layout for easy access to radiator and cooling system elements.

More Efficient Maintenance Inside the Cab


Air conditioner filters

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

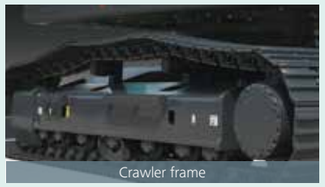

8-solenoid valve

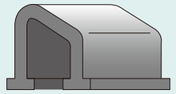
The layout around the 8-solenoid valve has been redesigned with a new opening added to the partition plate, improving accessibility for inspection and maintenance and enabling smoother maintenance work.


Pressurized Coolant Tank

The pressurized coolant tank helps reduce the frequency of coolant replenishment.

Easy Cleaning


Crawler frame



Special crawler frame design for easy mud removal cleaning.


Detachable two-piece floor mat

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


Floor mat with raised edges

Floor mat's raised edges help keep the cab floor free of mud, simplify cleaning.

Long-life hydraulic oil: 6,000 hours

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Hydraulic Filter Replacement Cycle: 2,000 hours

Highly Durable Long-life Premium Filter (LLPF)

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



GEOSCAN — Total Support for Machines with Network Speed and Accuracy

GEOSCAN is a telematics system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.

Direct Access to Operational Status

Location Data
Accurate location data can be obtained even from sites where communication is difficult.

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

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.

Graph of Work Content
The graph shows how working hours are divided among different operating categories.



Maintenance Data and Warning Alerts

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

Security System

Engine Start Alarm
Sends a notification if the engine is started outside of pre-defined hours.

Area Alarm
Sends a notification if the machine leaves a pre-defined area.

Engine

Model	CUMMINS B4.5
Type	Four-stroke, water-cooled, direct-injection, diesel engine turbocharged with inter-cooler CRDI engine
No. of cylinders	4
Bore and stroke	107 mm x 124 mm
Displacement	4.5 L
Rated power output	145 HP (108 kW)/2,000 min^{-1} (ISO 9249: with fan)
	150 HP (112 kW)/2,000 min^{-1} (ISO 14396: without fan)
Max. torque	638 N·m/1,500 min^{-1} (ISO 9249: with fan)
	655 N·m/1,500 min^{-1} (ISO 14396: without fan)

Hydraulic System

Pump	
Type	Two variable displacement piston 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 {51 kgf/cm^2}
Pilot control pump	Gear type
Main control valve	8-spool valve
Oil cooler	Air cooled type

Swing System

Swing motor	Fixed displacement axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake	Wet multiple plate
Swing speed	13.3 min^{-1} {rpm}
Tail swing radius	2,910 mm
Min. front swing radius	3,560 mm

Attachments

Backhoe bucket and combination

Application	Working Conditions	Bucket Capacity (m^3)	Width (with side cutter) (mm)	Weight (with side cutter) (kg)	SK210		SK215LC	
					2.40 m Arm	2.94 m Arm	2.40 m Arm	2.94 m Arm
General Digging	Sand, Gravel, Clay, Trenching and Loading & General Construction Job	1.05	1,310	880	×	×	○	×
		0.93	1,160	870	○	□	○	○

○: General purpose use, material weight up to 1.8t/m^3 □: General purpose use, material weight up to 1.6t/m^3 ×: Not usable

Operating Weight & Ground Pressure

In standard trim, with standard boom and 2.40 m arm.

Shaped			Triple grouser shoes (even height)	
Shoe width	mm		600	800
Overall width of crawler	mm	SK210	2,800	3,000
		SK215LC	2,990	3,190
Ground pressure	kPa	SK210	43.9	33.8
		SK215LC	41.7	32.1
Operating weight	kg	SK210	19,600	20,100
		SK215LC	20,100	20,600

* Actual bucket capacities (ISO heaped): SK210 – 0.93 m^3, SK215LC – 1.05 m^3.

Travel System

Travel motors		Variable displacement piston motor
Travel brakes		Hydraulic
Parking brakes		Wet multiple plate
Travel shoes	SK210	46 each side
	SK215LC	49 each side
Travel speed		6.0/3.6 km/h
Drawbar pulling force		229 kN (SAE)
Gradeability		70 % {35°}

Cab & Control

Cab

All-weather, sound-suppressed steel cab mounted on the silicone-sealed viscous mounts and equipped with a heavy, insulated floor mat.

Control

Two hand levers and two foot pedals for travel

Two hand levers for excavating and swinging

Electric rotary-type engine throttle

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	18 L
Engine oil	17 L
Travel reduction gear	2 x 4.5 L
Swing reduction gear	2.7 L
Hydraulic oil tank	138.7 L tank oil level
	244 L hydraulic system

Working Ranges

Unit: m

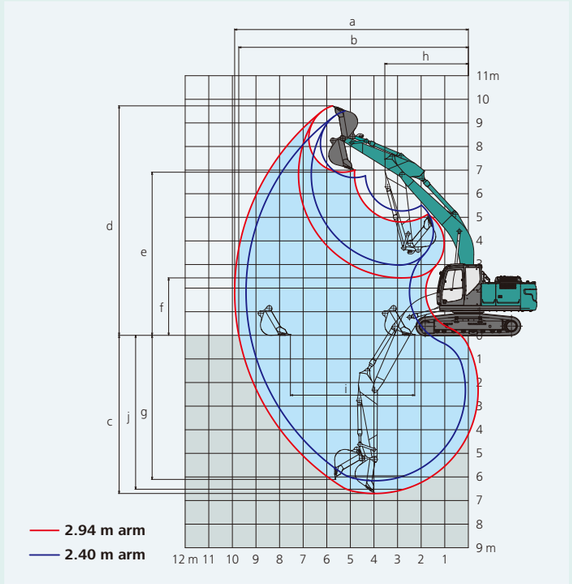
Boom	5.65 m	
Arm / Range	2.40 m	2.94 m
a- Max. digging reach	9.42	9.90
b- Max. digging reach at ground level	9.24	9.73
c- Max. digging depth	6.16	6.70
d- Max. digging height	9.51	9.72
e- Max. dumping clearance	6.68	6.91
f- Min. dumping clearance	2.98	2.43
g- Max. vertical wall digging depth	5.57	6.10
h- Min. swing radius	3.56	3.55
i- Horizontal digging stroke at ground level	4.08	5.27
j- Digging depth for 2.4 m (8') flat bottom	5.95	6.52
Bucket capacity ISO heaped m^3	0.93	0.80

Digging force (ISO 6015)

Unit: kN

Arm length	2.40 m	2.94 m
Bucket digging force	143 157*	
Arm crowding force	121 133*	102 112*

*Power Boost engaged.



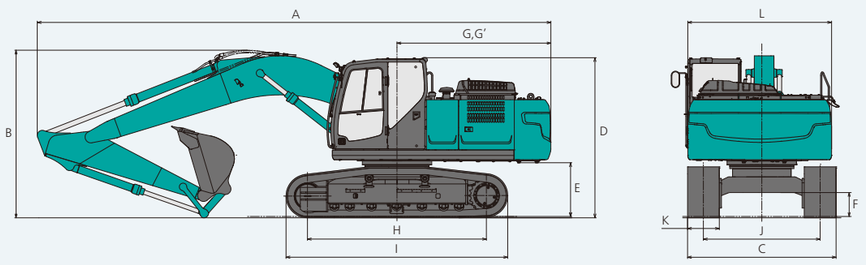
Dimensions

Unit: mm

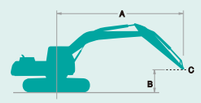
Arm length			2.40 m	2.94 m
A	Overall length		9,680	9,600
B	Overall height (to top of boom)		3,160	2,980
C	Overall width of crawler	SK210	2,800	–
		SK215LC	2,990	
D	Overall height (to top of cab)		3,020	
E	Ground clearance of rear end*		1,010	
F	Ground clearance*		450	
G	Tail swing radius		2,910	

G'	Distance from center of swing to rear end		2,900
H	Tumbler distance	SK210	3,370
		SK215LC	3,660
I	Overall length of crawler	SK210	4,180
		SK215LC	4,460
J	Track gauge	SK210	2,200
		SK215LC	2,390
K	Shoe width		600
L	Overall width of upperstructure		2,780

*Without including height of shoe lug



Lift 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: Lift point
Bucket: Without bucket
Relief valve setting: 37.8 MPa {385 kgf/cm^2}

SK210	Boom: 5.65 m, Arm: 2.40 m, Bucket: Without, Shoe: 600 mm, Counterweight: 3,320 kg										
A / B	3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg								*6,370	4,770	5.59 m
6.0 m	kg				6,520	4,260			5,240	3,420	6.80 m
4.5 m	kg		*8,450	6,390	6,350	4,110	4,410	2,860	4,380	2,840	7.52 m
3.0 m	kg		9,590	5,840	6,090	3,880	4,330	2,780	3,990	2,560	7.89 m
1.5 m	kg		9,080	5,400	5,850	3,660	4,220	2,680	3,860	2,460	7.97 m
G. L.	kg		8,860	5,220	5,700	3,530	4,160	2,620	3,970	2,510	7.75 m
-1.5 m	kg	*11,520	8,840	5,200	5,670	3,500			4,390	2,770	7.22 m
-3.0 m	kg	*13,520	8,980	5,320	5,780	3,600			5,430	3,410	6.28 m
-4.5 m	kg		*6,450	5,650					*5,920	5,320	4.71 m