Lifting Capacities

SK200-10 SK210LC-10

SK210LC	Standard Arm: 2.94 m Bucket: Without Shoe: 600 mm Counterweight: 4,300 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							*4,830	*4,830			*3,880	*3,880	6.26 m
6.0 m	kg							*5,330	5,240			*3,590	*3,590	7.36 m
4.5 m	kg							*5,810	5,060	*5,340	3,530	*3,510	3,130	8.03 m
3.0 m	kg					*8,460	7,330	*6,580	4,790	5,320	3,420	*3,580	2,860	8.38 m
1.5 m	kg					*9,970	6,790	7,250	4,530	5,180	3,290	*3,790	2,750	8.45 m
G. L.	kg			*5,760	*5,760	*10,670	6,490	7,050	4,340	5,070	3,200	*4,190	2,800	8.25 m
-1.5 m	kg	*6,100	*6,100	*10,060	*10,060	*10,510	6,410	6,960	4,270	5,050	3,170	4,830	3,040	7.75 m
-3.0 m	kg	*10,670	*10,670	*13,190	12,640	*9,500	6,480	7,010	4,310			*5,700	3,620	6.89 m
-4.5 m	kg			*9,760	*9,760	*7,160	6,730					*5,380	5,090	5.50 m

SK210LC	Standard Arm: 2.94 m Bucket: Without Shoe: 800 mm Counterweight: 4,300 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							*4,830	*4,830			*3,880	*3,880	6.26 m
6.0 m	kg							*5,330	*5,330			*3,590	*3,590	7.36 m
4.5 m	kg							*5,810	5,200	*5,340	3,640	*3,510	3,230	8.03 m
3.0 m	kg					*8,460	7,540	*6,580	4,930	5,480	3,520	*3,580	2,950	8.38 m
1.5 m	kg					*9,970	6,990	*7,330	4,670	5,340	3,400	*3,790	2,850	8.45 m
G. L.	kg			*5,760	*5,760	*10,670	6,700	7,280	4,480	5,240	3,300	*4,190	2,900	8.25 m
-1.5 m	kg	*6,100	*6,100	*10,060	*10,060	*10,510	6,620	7,190	4,410	5,210	3,280	*4,910	3,150	7.75 m
-3.0 m	kg	*10,670	*10,670	*13,190	13,020	*9,500	6,690	*7,040	4,450			*5,700	3,730	6.89 m
-4.5 m	kg			*9,760	*9,760	*7,160	6,940					*5,380	5,250	5.50 m

Notes:

1. Do not attempt to lift or hold any load that is greater than these lifting capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting 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. Lifting capacities apply to only machine originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

STANDARD EQUIPMENT

ENGINE
- Engine, HINO J05ETA-KSSK, diesel engine with turbocharger and intercooler, Stage 3 certified
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V - 96Ah)
- Starting motor (24V - 5 kW), 60 amp alternator
- Automatic engine shut-down
- Engine oil pan drain cock
- Double element air cleaner

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

MIRRORS & LIGHTS
- Two rear view mirrors
- Four front working lights (one for boom, one for boom cylinder, one for right storage box and one for cab)

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
- KOMEXS

OPTIONAL EQUIPMENT

- Additional track guide
- Two cab lights
- N & B piping
- Refilling pump
- Rear view camera

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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Bulletin No. SK200/SK210LC-10-SEASIA-A-101-161010EF

KOBELCO

SK200 SK210LC

We Save You Fuel
Achieving a Low-Carbon Society

Power Meets Efficiency

16%
Higher fuel saving means "Efficiency"

Compared to H-mode on the SK200-8

Increase in productivity means "Power"

To urban centers and mines around the world.
Kobelco's all-out innovation brings you durable earth-friendly construction machinery suitable for any task, and sites all over the planet. With greater fuel economy we deliver higher efficiency to any project. Kobelco SK200 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. 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

SK200 SK210LC

Evolution Continues, with Improved Fuel Efficiency.

16%
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 16%*. The electronic-control common-rail engine features high-pressure fuel injection and multiple injection with improved precision.

* Compared to H-mode on the SK200-8

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

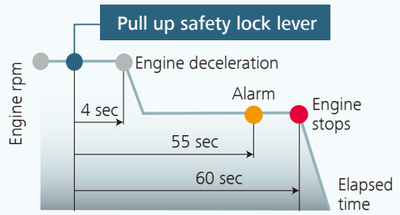
- **H** H-mode • • • About **16%** improvement
- **S** S-mode • • • About **14%** improvement
- **E** ECO-mode • • • About **19%** improvement

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



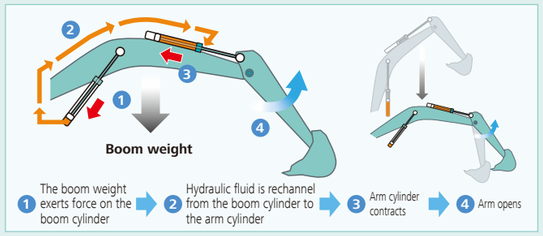
AIS (Auto Idle Stop)

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

Hydraulic System: Revolutionary Technology Saves Fuel

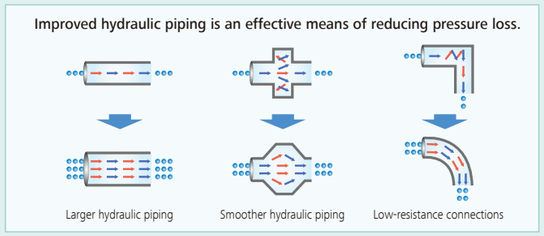
Arm Interflow System NEW

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



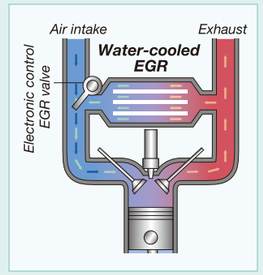
Pursuing Maximum Fuel Efficiency

Common Rail System

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

EGR cooler

Ensures the recirculated exhaust gas are cooled and mixed with the intake air before entering the combustion chamber. This lowers the sudden surge of combustion temperature thereby reduces the formation of nitrogen oxide (Nox) at the exhaust emission.



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

Normal: **143kN**

With power boost: **157kN**

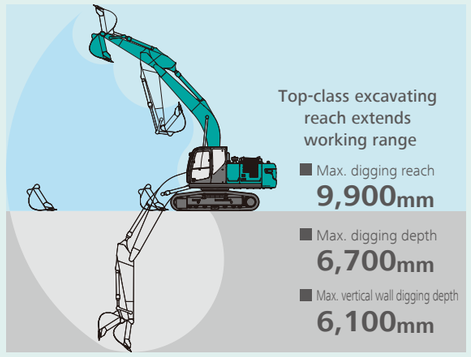
■Max. Arm Crowding Force

Normal: **102kN**

With power boost: **112kN**

*Values are for STD arm (2.94m)

Get More Done Faster with Superior Operability



*Values are for STD arm (2.94m)

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

It takes 38% 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 drawbar 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: **228kN**

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. Fuel consumption/Switch indicator for rear camera images
4. Digging mode switch
5. Monitor display switch

Fuel consumption

Maintenance

Breaker mode

Nibbler mode

Rearview monitoring (option)

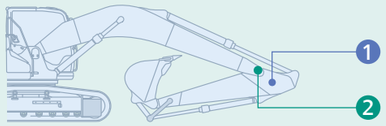
One-Touch Attachment Mode Switch

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.

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.



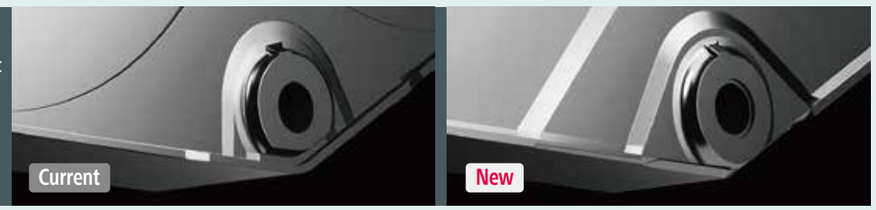
Built to Operate in Tough Working Environments

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

NEW

1 Enlarged Reinforcement of the Arm Foot

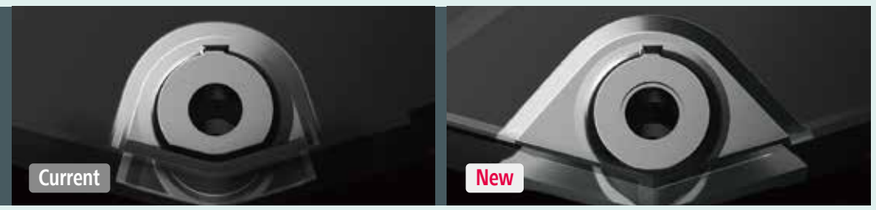
HD: Base plate thickness has been increased 1.3 times (20 t).



NEW

2 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.



Improved Filtration System Reliability

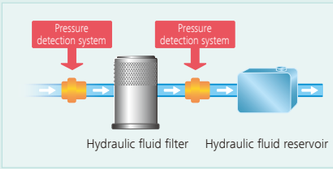
Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance. The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

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

Hydraulic tank pressure sensor monitors the pressure difference between the return line and tank 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 by the filter and replaced before it reaches the hydraulic fluid in the tank.

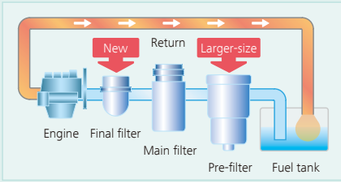


Metal Mesh Cover Air Cleaner NEW

Metal mesh cover ensures strength and durability.

Fuel Filter

The pre-filter with built-in water-separator has 1.6 times more filter area compared to the previous models and with a new final stage maintenance free fuel filter 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

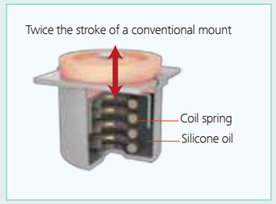
The high level of air-tightness keeps dust out of the cab.

Quiet Inside

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

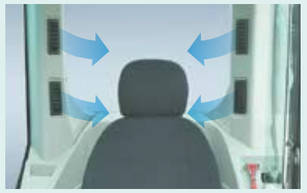
Low Vibration

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.



Air Conditioner Louvers behind the Seat

NEW



The large air-conditioner has louvers 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 recliner can be pushed back flat

Double slides allow adjustment for optimum comfort

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.

Interior Equipment Adds to Comfort and Convenience

Spacious storage tray

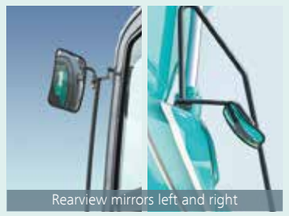
Large cup holder

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.

Expanded Field of View for Greater Safety

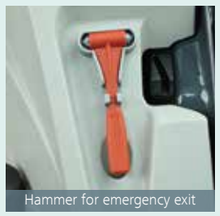


Rearview mirrors left and right

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

Rear view camera (option)

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

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.

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

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 engine hood is lighter and easier to raise and lower.

Generous space for maintenance work

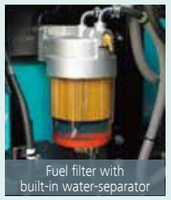
Steps

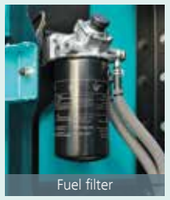
Hand rail

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


Fuel filter

Right side

Left side

1. Fuel filter
2. Fuel filter with built-in water-separator
3. Engine oil filter

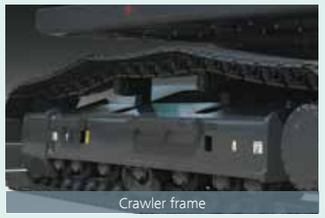
Simple layout for easy access to radiator and cooling system elements.

More Efficient Maintenance Inside the Cab

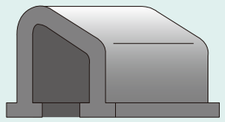
Air conditioner filters

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

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.

Engine oil pan

Engine oil pan equipped with drain valve.

Long-life hydraulic oil: 2,000 hours

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Replacement cycle: 1,000 hours

Highly Durable Premium-fine Filter

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

KOMEXS

KOMEXS is the remote monitoring system for SK series excavators.
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.

Engine

Model	HINO J05ETA-KSSK
Type:	Four-stroke liquid-cooled direct injection diesel turbo charged with intercooler (Stage 3-compliant engine)
No. of cylinders:	4
Bore and stroke:	112 mm x 130 mm
Displacement:	5.123 L
Rated power output:	114 kW/2,000 min^{-1} (ISO 9249)
	118 kW/2,000 min^{-1} (ISO 14396)
Max. torque:	569 N·m/1,600 min^{-1} (ISO 9249)
	592 N·m/1,600 min^{-1} (ISO 14396)

Hydraulic System

Pump	
Type:	Two Variable displacement piston pumps + one gear pump
Max. discharge flow:	2 x 220 L/min, 1 x 21 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 valve
Oil cooler:	Air cooled type

Swing System

Swing motor:	One fixed displacement piston pump
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:	3,550 mm

Travel System

Travel motors:	Variable displacement piston pump
Travel brakes:	Hydraulic
Parking brakes:	Wet multiple plate
Travel shoes:	46 each side (SK200)
	49 each side (SK210LC)
Travel speed:	6.0/3.6 km/h
Drawbar pulling force:	228 kN (ISO 7464)
Gradeability:	70 % {35°}
Ground clearance:	450 mm

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

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:	20.5 L
Travel reduction gear:	2 x 5 L
Swing reduction gear:	5 L
Hydraulic oil tank:	140 L tank oil level
	244 L hydraulic system

Attachments

Backhoe bucket and combination

Type			Backhoe bucket			
Bucket capacity	ISO heaped	m^3	0.80	0.80 Side pin type	0.93	0.80 Side pin type
	ISO Struck	m^3	0.59	0.59	0.67	0.67
Opening width	With side cutter	mm	1,160	1,160	1,330	1,300
	Without side cutter	mm	1,140	1,140	1,230	1,200
No. of teeth			5	5	5	5
Bucket weight		kg	640	640	710	790
Combination	2.94m standard arm		○	○	◎	○

◎ Standard combination ○ General operation

Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.93 m^3 ISO heaped bucket

Shaped			Triple grouser shoes (even height)		
Shoe width	mm		600	700	800
Overall width of crawler	mm	SK200	2,800	2,900	3,000
	mm	SK210LC	2,990	3,090	3,190
Ground pressure	kPa	SK200	46	41	36
	kPa	SK210LC	44	38	34
Operating weight	kg	SK200	20,700	21,100	21,400
	kg	SK210LC	21,100	21,600	21,800

Working Ranges

Unit: m

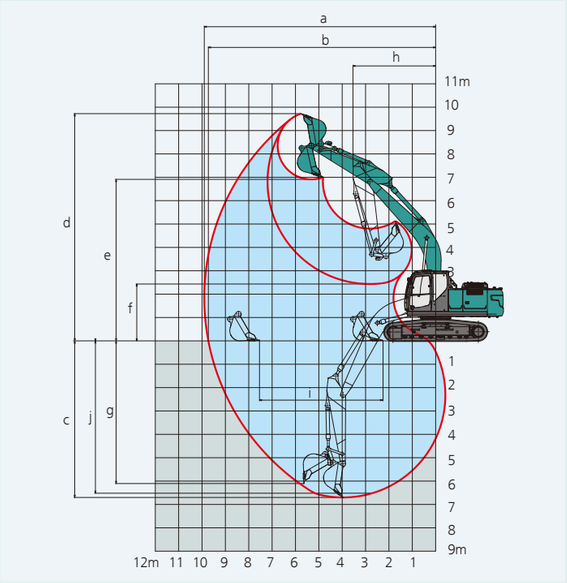
Boom / Arm / Range	Standard 2.94 m
a- Max. digging reach	9.9
b- Max. digging reach at ground level	9.73
c- Max. digging depth	6.7
d- Max. digging height	9.72
e- Max. dumping clearance	6.91
f- Min. dumping clearance	2.43
g- Max. vertical wall digging depth	6.1
h- Min. swing radius	3.55
i- Horizontal digging stroke at ground level	5.27
j- Digging depth for 2.4 m (8') flat bottom	6.52
Bucket capacity ISO heaped m^3	0.93

Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 2.94 m
Bucket digging force	143 157*
Arm crowding force	102 112*

*Power Boost engaged.



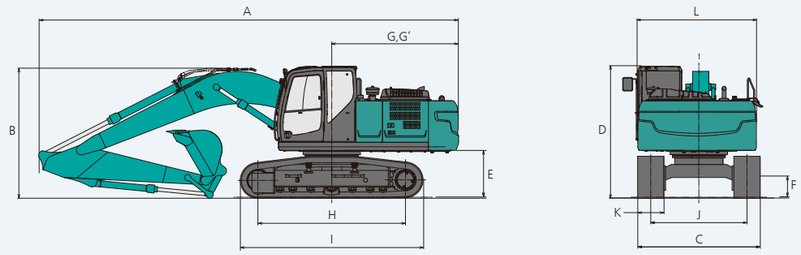
Dimensions

Unit: mm

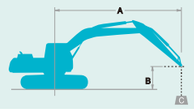
Arm length			Standard 2.94 m
A	Overall length		9,600
B	Overall height (to top of boom)		2,980
C	Overall width of crawler	SK200	2,800
		SK210LC	2,990
D	Overall height (to top of cab)		3,010
E	Ground clearance of rear end*		1,060
F	Ground clearance*		450
G	Tail swing radius		2,910

G'	Distance from center of swing to rear end		2,900
H	Tumbler distance	SK200	3,370
		SK210LC	3,660
I	Overall length of crawler	SK200	4,170
		SK210LC	4,450
J	Track gauge	SK200	2,200
		SK210LC	2,390
K	Shoe width		600
L	Overall width of upperstructure		2,710

*Without including height of shoe



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: 34.3 MPa (350 kgf/cm^2)

SK200		Standard Arm: 2.94 m Bucket: Without Shoe: 600 mm Counterweight: 4,300 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							*4,830	4,770			*3,880	*3,880	6.26 m
6.0 m	kg							*5,330	4,760			*3,590	3,340	7.36 m
4.5 m	kg							*5,810	4,580	4,850	3,190	*3,510	2,830	8.03 m
3.0 m	kg					*8,460	6,580	*6,580	4,320	4,720	3,080	*3,580	2,570	8.38 m
1.5 m	kg					*9,970	6,040	6,390	4,060	4,590	2,950	*3,790	2,470	8.45 m
G. L.	kg			*5,760	*5,760	9,640	5,760	6,190	3,880	4,490	2,860	3,920	2,510	8.25 m
-1.5 m	kg	*6,100	*6,100	*10,060	*10,060	9,550	5,680	6,110	3,810	4,460	2,840	4,270	2,720	7.75 m
-3.0 m	kg	*10,670	*10,670	*13,190	10,980	*9,500	5,750	6,160	3,850			5,090	3,240	6.89 m
-4.5 m	kg			*9,760	*9,760	*7,160	5,990					*5,380	4,560	5.50 m