

# KOBELCO

SK210LC-10E/SK210NLC-10E/SK210SNLC-10E

## SK210<sub>LC</sub>

## SK210<sub>NLC</sub>

## SK210<sub>SNLC</sub>

■ Bucket Capacity :

0.70 - 0.80 m<sup>3</sup>

■ Engine Power :

124 kW / 2,000 min<sup>-1</sup>

■ Operating Weight :

21,600 - 23,600 kg



Complies with the EU Stage V  
exhaust emission regulation

**We Save You Fuel**  
Achieving a Low-Carbon Society

# Power Meets Efficiency



**SK210<sub>LC</sub> SK210<sub>NLC</sub> SK210<sub>SNLC</sub>**

10%  
Higher fuel efficiency  
means  
"Efficiency"

Increase in  
productivity  
means  
"Power"

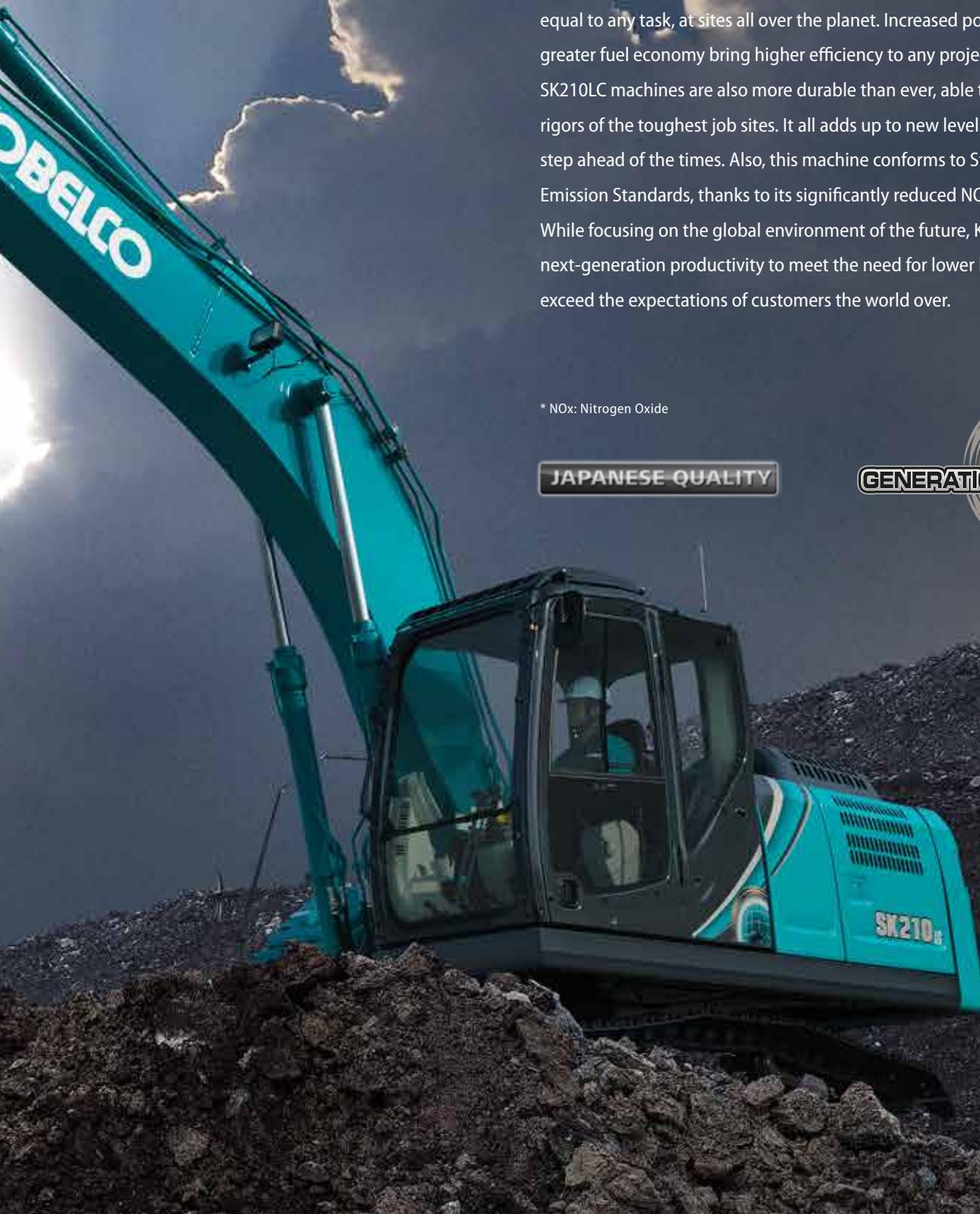
Compared to S-mode on the SK210LC-9

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 V 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

JAPANESE QUALITY

GENERATION 10

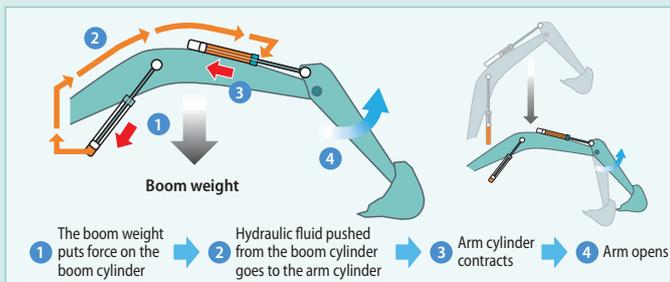


# Evolution Continues, with Improved Fuel Efficiency

## Hydraulic System: Revolutionary Technology Saves Fuel

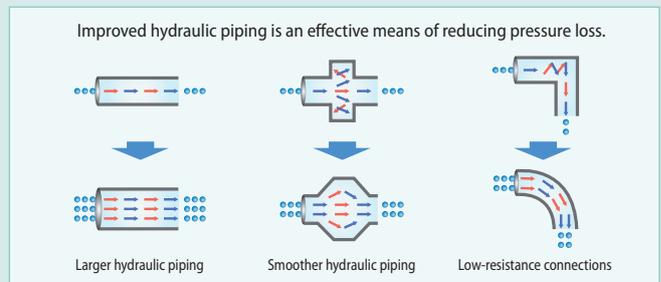
### Arm Interflow System NEW

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.

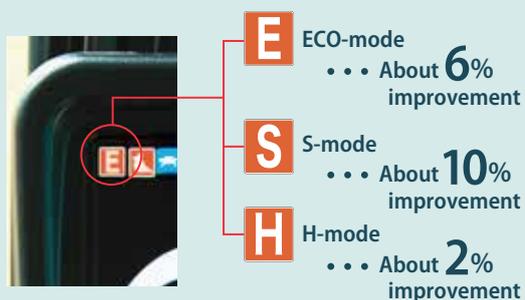


## In Pursuit of Improved Fuel Efficiency

### Operation Mode

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

■ Compared to previous models

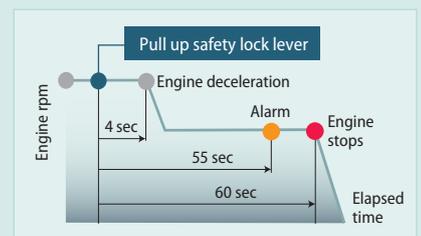


### Always and Forever. Yesterday, Today, and Tomorrow. Obsessed with Fuel Efficiency.

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-10E) ... 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<sub>2</sub> emissions as well.



**10%**  
Higher fuel efficiency  
means  
"Efficiency"

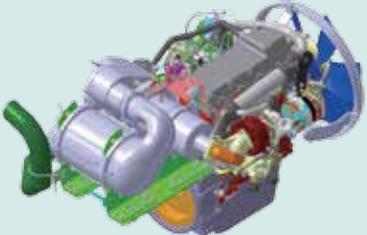
The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency by about 10%\*1. The engine, already well-known for its environmental performance has a new SCR\*2 system, and its reduced NOx emissions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

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

**Engine Meets Stage V 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.



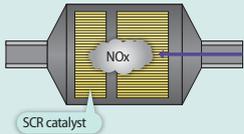
\*3 PM: Particulate Matter

**SCR System with DEF/Urea** 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 V 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)



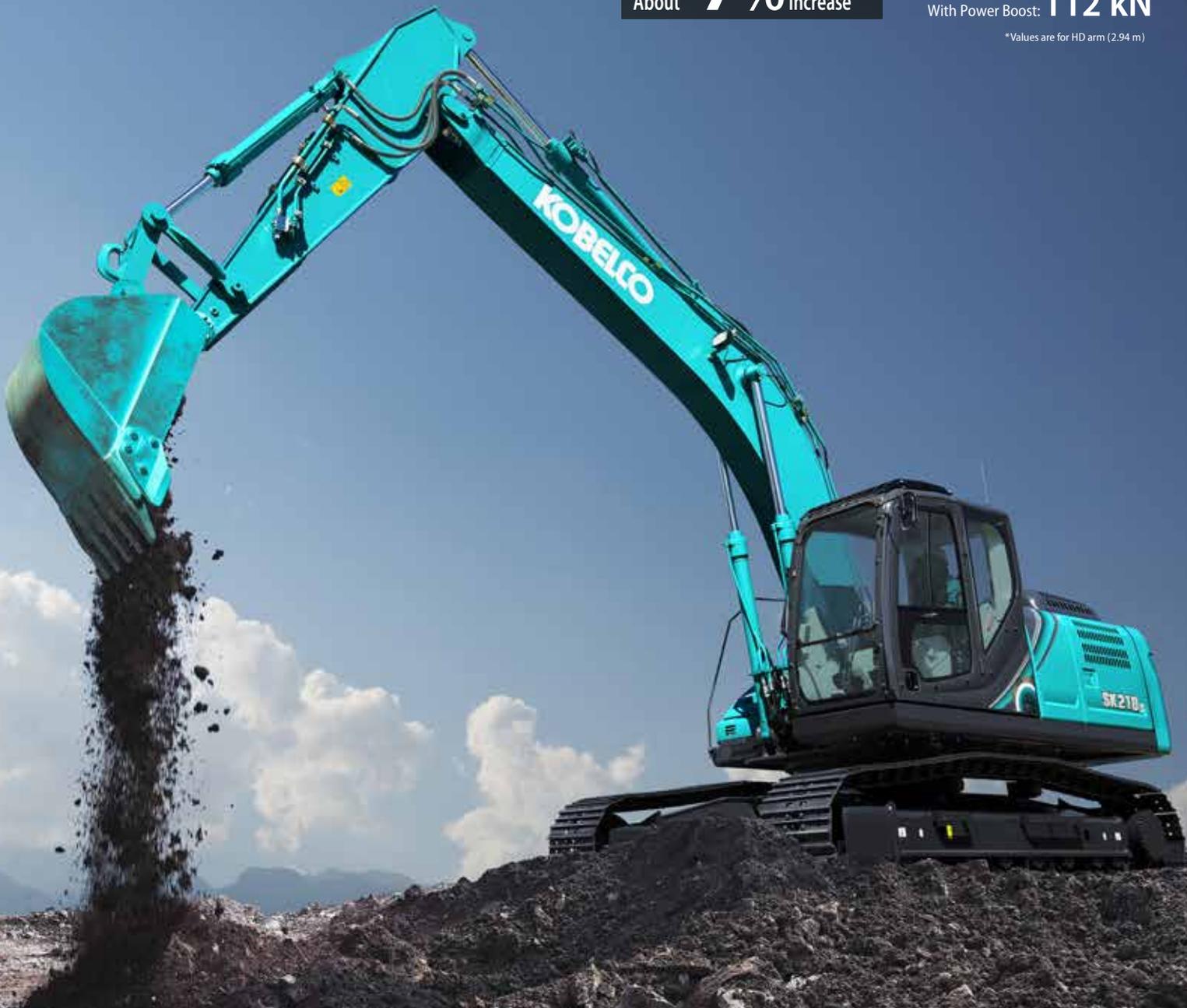
■ Max. Bucket Digging Force

Normal: **143 kN**  
With Power Boost: **157 kN**

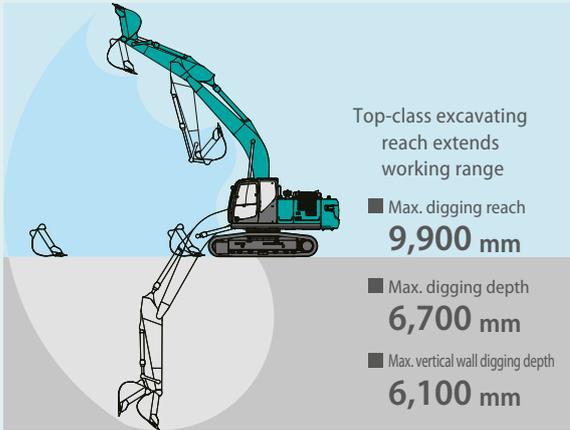
■ Max. Arm Crowding Force

Normal: **102 kN**  
With Power Boost: **112 kN**

\*Values are for HD arm (2.94 m)



## Get More Done Faster with Superior Operability



\*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:

SK210LC/NLC

**229 kN**

SK210SNLC

**227 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)/Urea level gauge (right)
- 4 Fuel consumption
- 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.



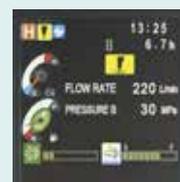
PM accumulation / Urea accumulation display



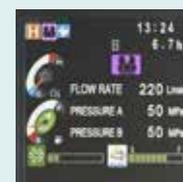
Fuel consumption



Maintenance

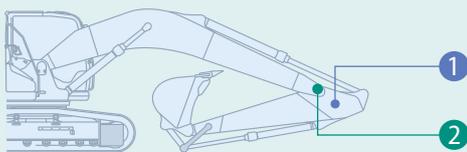


Breaker mode



Nibbler mode

# 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

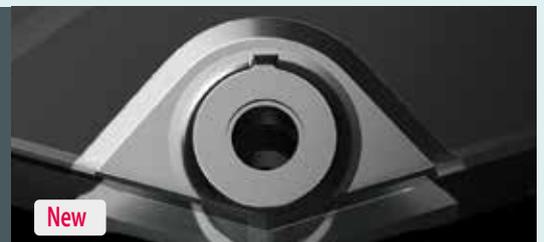
HD: Base plate thickness has been increased 1.3 times (20 t).



## 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.

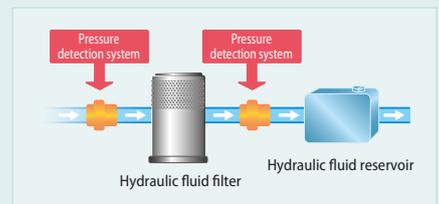
#### Hydraulic Fluid Filter NEW

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.



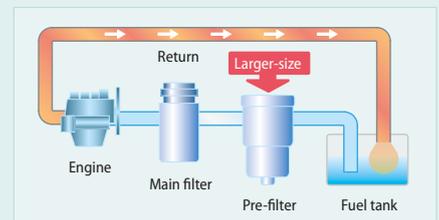
#### Double-Element Air Cleaner

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 maximizes 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.

Twice the stroke of a conventional mount



### 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



## 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



## 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



### Right Side Camera Fitted as Standard

Further to the existing rear-view camera, a camera for the right side is fitted as standard for easy safety checks all round the machine.

Rear view shows the area directly behind the cab.

# KOMEXS

## KOBELCO MONITORING EXCAVATOR SYSTEM



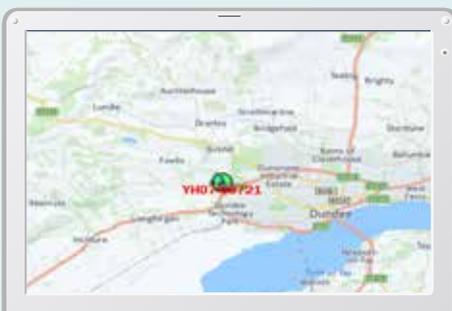
### Remote Monitoring for Peace of Mind

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.

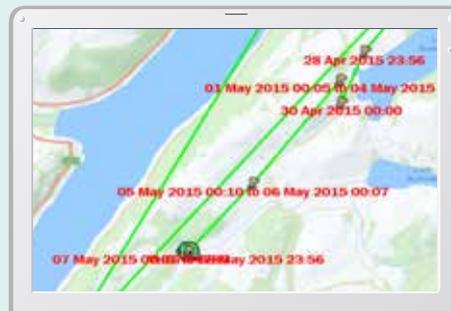
### Direct Access to Operational Status

#### Location Data

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



Latest location



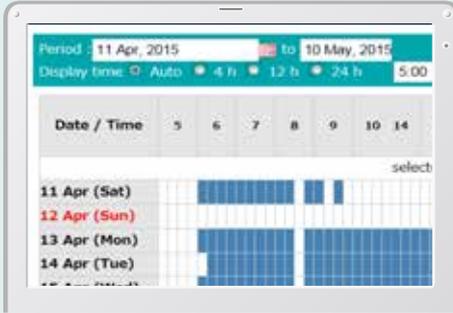
Location records

Period: 11 Apr, 2015		To: 10 May, 2015		Search	
Type of Operation	Working Hrs			Ratio	
Total Working Hrs	169 Hrs			100 %	
Digging Hrs	72.2 Hrs			43 %	
Traveling Hrs	18.3 Hrs			11 %	
Idle Hrs	15.9 Hrs			9 %	
Opt Att Hrs	62.5 Hrs			37 %	
Crane Mode Hrs	0 Hrs			0 %	

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.



Daily report

## Fuel Consumption Data

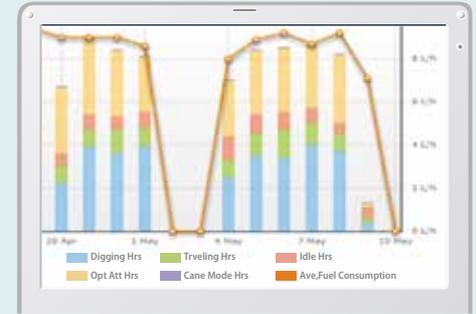
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

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
<b>TOTAL</b>	<b>171:25</b>	<b>1514.2 L</b>

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.



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	YH07-09221	734 Hr	434
SK135SRLC-3/SK140SRL	YH07-09289	73 Hr	429
SK210LC-9	YQ13-10454	960 Hr	58
SK210LC-9	YQ13-10481	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.



Alarm messages can be received on mobile device.

## Daily/Monthly Reports

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

## Security System

### Engine Start Alarm

The system can be set an alarm if the machine is operated outside designated time.

Engine start alarm outside prescribed work time

### Area Alarm

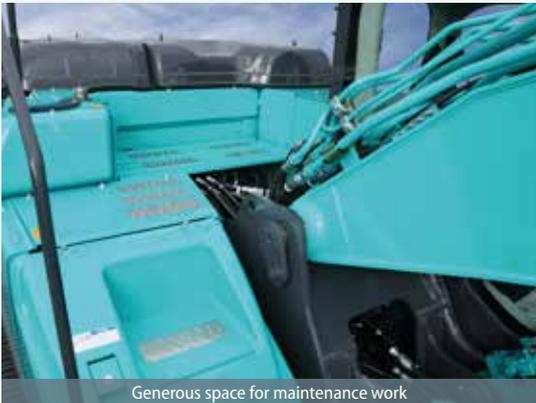
It can be set an alarm if the machine is moved out of its designated area to another location.

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

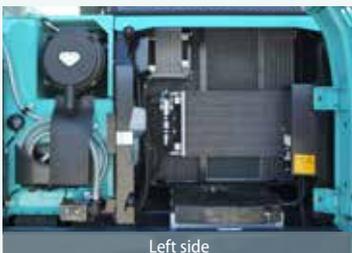


DEF/Urea tank

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.



Left side



Double-element air cleaner



Right side



Engine oil filter



Fuel filter / Pre-filter

Laid out for easy access to radiator and cooling system elements

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

# Efficient Maintenance Keeps the Machine in Peak Operating Condition



## Machine Information Display Function

Examples of displaying maintenance information

- 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

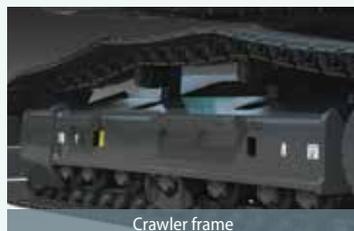
Internal and external air conditioner filters can be easily removed without tools for cleaning.



DPF manual regeneration switch

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

## Easy Cleaning



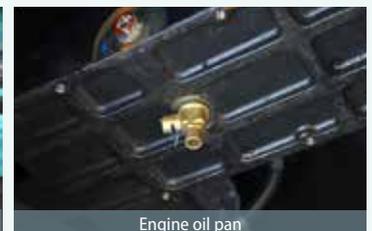
Crawler frame

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.





## Engine

Model	SK210LC/NLC	J05EVA-KSDA
	SK210SNLC	J05EVA-KSDN
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 <sup>-1</sup> (ISO 9249)	
	124 kW/2,000 min <sup>-1</sup> (ISO 14396)	
Max. torque	640 N·m/1,600 min <sup>-1</sup> (ISO 9249)	
	660 N·m/1,600 min <sup>-1</sup> (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 <sup>2</sup> }
Power Boost	37.8 MPa {385 kgf/cm <sup>2</sup> }
Travel circuit	34.3 MPa {350 kgf/cm <sup>2</sup> }
Swing circuit	29.0 MPa {296 kgf/cm <sup>2</sup> }
Control circuit	5.0 MPa {50 kgf/cm <sup>2</sup> }
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 <sup>-1</sup> {rpm}
Swing torque	71.5 kN·m



## Attachments

Backhoe bucket and combination (Reference only)

Type	Backhoe bucket			
Bucket capacity	ISO heaped	m <sup>3</sup>	0.70	0.80
Opening width	With side cutter	mm	1,080	1,160
	Without side cutter	mm	980	1,140
No. of teeth			5	5
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 \*Available for SK210LC & SK210NLC



## 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	SK210LC/NLC	229 kN (ISO 7464)
	SK210SNLC	227 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	100dB(A) (ISO 6395)
Operator	66dB(A) (ISO 6396)



## 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/Urea tank	SK210LC/NLC	83 L
	SK210SNLC	34 L



## Working Ranges

Unit: m

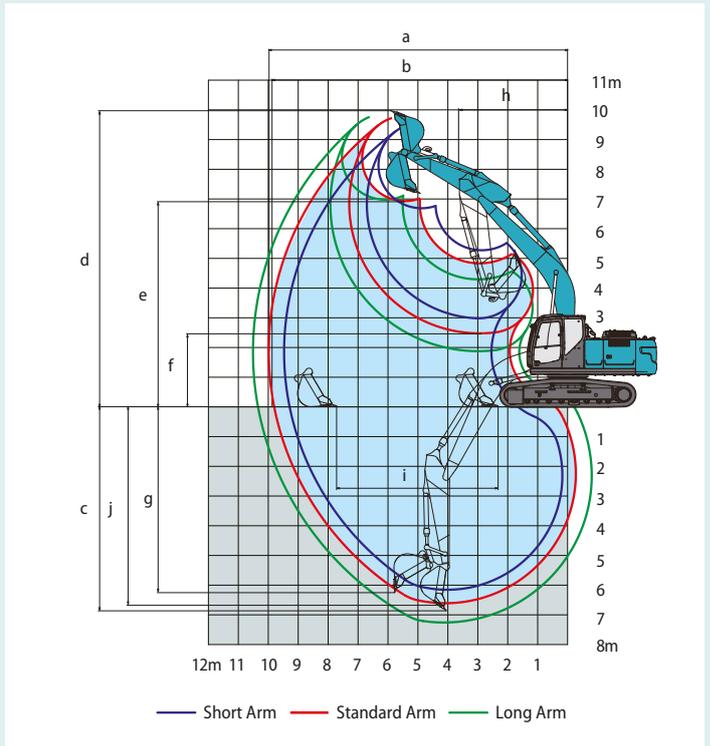
Range	Arm	5.65 m		
		Short 2.4 m	Standard 2.94 m	Long 3.5 m <sup>*1</sup>
a- Max. digging reach		9.42	9.9	10.34
b- Max. digging reach at ground level		9.24	9.73	10.17
c- Max. digging depth		6.16	6.7	7.26
d- Max. digging height		9.51	9.72	9.75
e- Max. dumping clearance		6.68	6.91	6.97
f- Min. dumping 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 m <sup>3</sup>		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 <sup>*1</sup>
Bucket digging force	143 157 <sup>*2</sup>	143 157 <sup>*2</sup>	143 157 <sup>*2</sup>
Arm crowding force	121 133 <sup>*2</sup>	102 112 <sup>*2</sup>	91.8 101 <sup>*2</sup>

\*1 Available for SK210LC & SK210NLC \*2 Power Boost engaged



## Dimensions (SK210LC/SK210NLC)

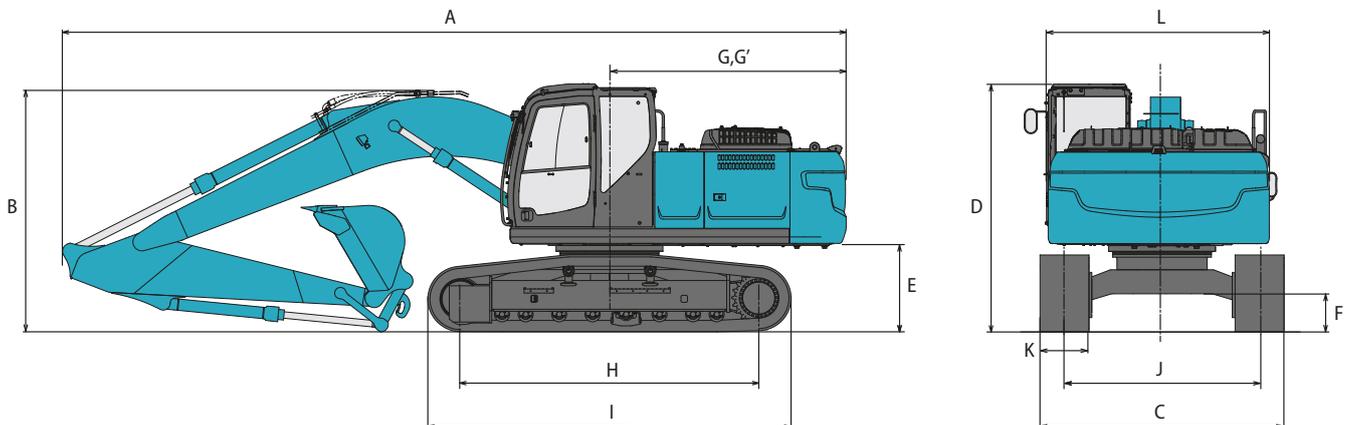
Unit: mm

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

SK210LC/SK210NLC



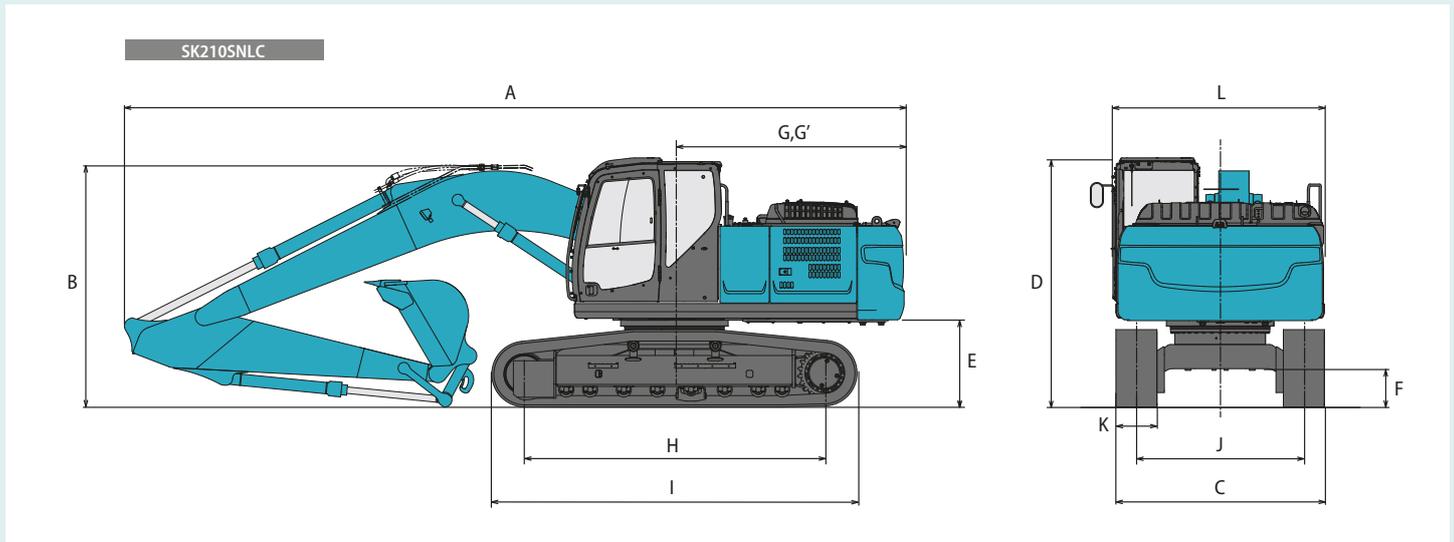


## Dimensions (SK210SNLC)

Arm length	Short 2.4 m	Standard 2.94 m
A Overall length	9,580	9,500
B Overall height (to top of boom)	3,200	2,980
C Overall width of crawler	2,540	
D Overall height (to top of cab)	3,060	
E Ground clearance of rear end*	1,045	
F Ground clearance*	450	
G Tail swing radius	2,800	
G' Distance from center of swing to rear end	2,800	

Unit: mm		
H Tumbler distance	3,660	
I Overall length of crawler	4,450	
J Track gauge	2,040	
K Shoe width	500	
L Overall width of upperstructure	2,540	

\*Without including height of shoe

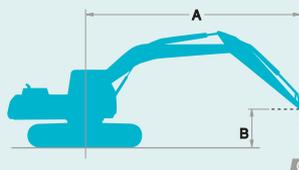


## Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.8 m<sup>3</sup> ISO heaped bucket

Shaped			Triple grouser shoes (even height)				
Shoe width	mm		500	600	700	790	900
Overall width of crawler	SK210LC	mm	—	2,990	3,090	3,180	3,290
	SK210NLC	mm	—	2,800	2,900	2,990	—
	SK210SNLC	mm	2,540	2,640	—	—	—
Ground pressure	SK210LC	kPa	—	45	39	35	31
	SK210NLC	kPa	—	45	39	35	—
	SK210SNLC	kPa	55	46	—	—	—
Operating weight	SK210LC	kg	—	21,700	22,100	22,300	22,600
	SK210NLC	kg	—	21,600	22,100	22,300	—
	SK210SNLC	kg	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/cm<sup>2</sup>)

SK210LC		Boom: 5.65 m Arm: 2.94 m, Bucket: without Shoe: 600 mm (Heavy Lift)												
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
		Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	
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)						
B	A	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	7.86 m
4.5 m	kg								*5,890	5,350		*5,490	3,720	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	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)						
B	A	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	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	5,120	3,330	7.89 m
1.5 m	kg			*11,680	7,080	7,570	4,770	5,440	3,500	5,490	3,210	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	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	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	*6,700	4,440	6.29 m
-4.5 m	kg			*6,360	*6,360					*5,820	*5,820	*5,820	*5,820	4.72 m

SK210NLC		Boom: 5.65 m		Arm: 2.94 m		Bucket: without		Shoe: 600 mm (Heavy Lift)						
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg													6.26 m
6.0 m	kg								*5,330	5,070				7.36 m
4.5 m	kg								*5,940	5,060				8.03 m
3.0 m	kg								*6,490	4,880	5,670	3,420	*3,890	8.38 m
1.5 m	kg								*9,450	7,010	*7,360	4,610	5,540	8.45 m
G.L.	kg								*11,150	6,470	7,560	4,350	5,400	8.25 m
-1.5 m	kg	*6,730	*6,730	*6,370	*6,370	11,630	6,180	7,350	4,170	5,290	3,080	4,620	2,710	7.75 m
-3.0 m	kg	*11,760	*11,760	*11,090	*11,090	11,540	6,100	7,260	4,100	5,270	3,060	5,040	2,940	6.89 m
-4.5 m	kg			*14,800	11,770	*10,660	6,180	7,320	4,140			6,010	3,480	5.50 m

SK210NLC		Boom: 5.65 m		Arm: 3.5 m		Bucket: without		Shoe: 600 mm (Heavy Lift)						
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg													6.84 m
6.0 m	kg											*4,580	3,500	7.86 m
4.5 m	kg											*5,490	3,420	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	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

**Notes:**

- 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.
- 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.
- Arm top defined as lift point.
- 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.

- 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.
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

## Lifting Capacities

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	

SK210SNLC		Boom: 5.65 m		Arm: 2.94 m		Bucket: without		Shoe: 500 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	5,060			*4,300	*4,300	6.26 m
6.0 m	kg							*5,940	5,050			*3,980	3,580	7.36 m
4.5 m	kg							*6,490	4,870	*5,980	3,430	*3,890	3,050	8.03 m
3.0 m	kg					*9,450	6,950	*7,360	4,610	5,880	3,320	*3,970	2,780	8.38 m
1.5 m	kg					*11,150	6,430	8,030	4,350	5,740	3,190	*4,200	2,680	8.45 m
G.L.	kg			*6,370	*6,370	*11,940	6,140	7,820	4,180	5,640	3,100	*4,640	2,730	8.25 m
-1.5 m	kg	*6,730	*6,730	*11,090	*11,090	*11,770	6,060	7,730	4,100	5,610	3,070	5,370	2,950	7.75 m
-3.0 m	kg	*11,760	*11,760	*14,800	11,460	*10,660	6,140	7,780	4,150			6,400	3,500	6.89 m
-4.5 m	kg			*11,000	*11,000	*8,060	6,370					*6,070	4,880	5.50 m

SK210SNLC		Boom: 5.65 m		Arm: 2.4 m		Bucket: without		Shoe: 500 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	5,570	5.58 m
6.0 m	kg					*6,570	4,990			*5,800	4,050	6.80 m
4.5 m	kg			*8,380	7,400	*7,030	4,830	*5,890	3,410	*5,650	3,390	7.52 m
3.0 m	kg			*10,230	6,830	*7,820	4,590	5,890	3,330	5,430	3,070	7.89 m
1.5 m	kg			*11,680	6,370	8,020	4,360	5,770	3,220	5,280	2,960	7.97 m
G.L.	kg			*12,080	6,180	7,860	4,220	5,700	3,160	5,440	3,030	7.75 m
-1.5 m	kg	*11,480	*11,480	*11,550	6,160	7,820	4,190			6,020	3,330	7.22 m
-3.0 m	kg	*13,350	11,720	*10,030	6,290	*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:

- 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.
- 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.
- Arm top defined as lift point.
- 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.
- 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.
- 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

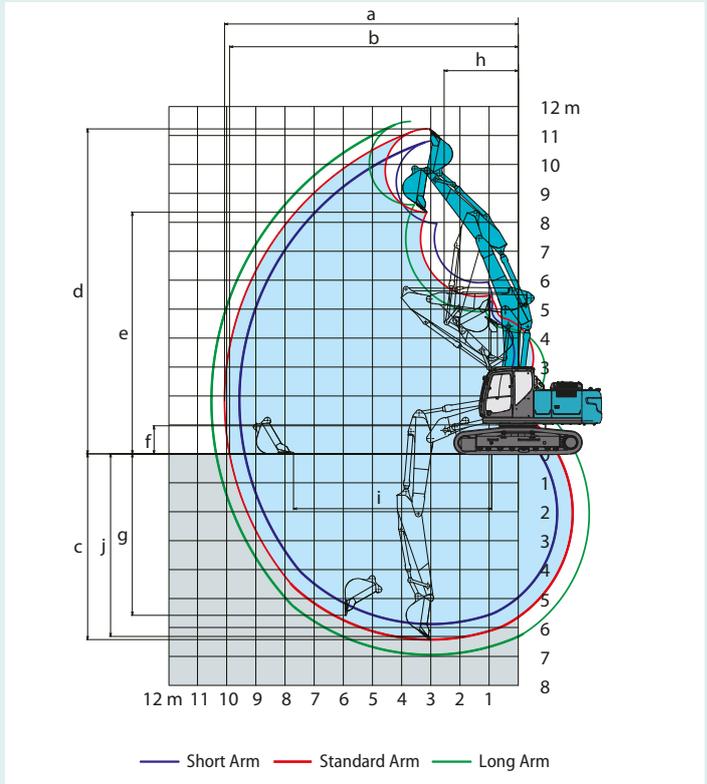
Boom		3.16 m + 2.63 m		
Arm		Short 2.4 m	Standard 2.94 m	Long 3.5 m <sup>*1</sup>
Range				
a-	Max. digging reach	9.57	10.07	10.53
b-	Max. digging reach at ground level	9.39	9.9	10.37
c-	Max. digging depth	5.89	6.42	6.93
d-	Max. digging height	10.83	11.23	11.5
e-	Max. dumping clearance	7.95	8.35	8.62
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 m <sup>3</sup>		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 <sup>*1</sup>
Bucket digging force	143 157 <sup>*2</sup>	143 157 <sup>*2</sup>	143 157 <sup>*2</sup>
Arm crowding force	121 133 <sup>*2</sup>	102 112 <sup>*2</sup>	91.8 101 <sup>*2</sup>

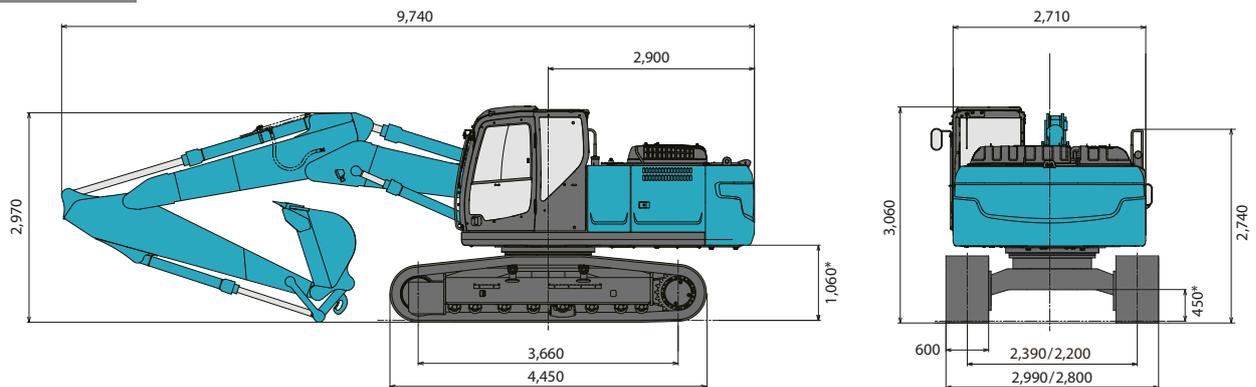
<sup>\*1</sup> Available for SK210LC & SK210NLC    <sup>\*2</sup> Power Boost engaged



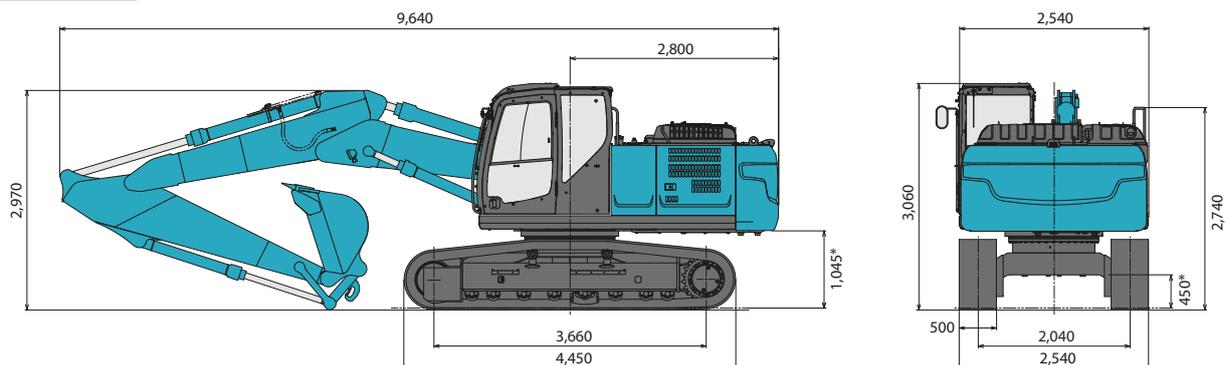
### Dimensions (2.94 m arm/2.4 m arm)

Unit: mm

#### SK210LC/SK210NLC



#### SK210SNLC



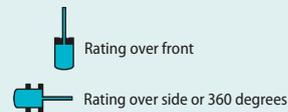
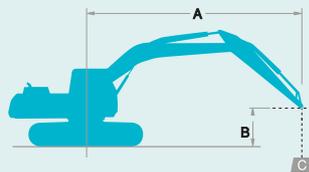
\*Without including height of shoe lug.

## Operating Weight & Ground Pressure

In standard trim, with 2 piece boom, 2.94 m arm, and 0.8 m<sup>3</sup> ISO heaped bucket.

Shaped			Triple grouser shoes (even height)				
Shoe width	mm		500	600	700	790	900
Overall width of crawler	SK210LC	mm	—	2,990	3,090	3,180	3,290
	SK210NLC	mm	—	2,800	2,900	2,990	—
	SK210SNLC	mm	2,540	2,640	—	—	—
Ground pressure	SK210LC	kPa	—	47	41	36	32
	SK210NLC	kPa	—	48	41	36	—
	SK210SNLC	kPa	58	48	—	—	—
Operating weight	SK210LC	kg	—	22,600	23,000	23,200	23,600
	SK210NLC	kg	—	22,400	22,900	23,100	—
	SK210SNLC	kg	23,100	23,300	—	—	—

## Lifting Capacities



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<sup>2</sup>}

SK210LC		Boom: 2 piece boom		Arm: 2.94 m		Bucket: without		Shoe: 600 mm (Heavy Lift)		At Max. Reach		Radius		
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
B		Rating over front		Rating over front		Rating over front		Rating over front		Rating over front				
9.0 m	kg					*5,890	*5,890					*4,940	*4,940	4.74 m
7.5 m	kg					*6,780	*6,780	*5,690	5,460			*4,050	*4,050	6.49 m
6.0 m	kg					*6,880	*6,880	*4,630	*4,630	*4,110	3,620	*3,710	3,570	7.55 m
4.5 m	kg			*10,470	*10,470	*9,190	8,250	*7,640	5,190	*4,830	3,580	*3,590	3,020	8.21 m
3.0 m	kg	*31,530	*31,530	*16,390	14,290	*10,820	7,470	7,790	4,850	*4,790	3,430	*3,620	2,740	8.55 m
1.5 m	kg			*17,880	12,750	*11,570	6,790	7,420	4,530	*5,150	3,270	*3,780	2,640	8.62 m
G.L.	kg	*19,960	*19,960	*14,880	12,350	*11,210	6,440	7,170	4,310	5,150	3,160	*4,120	2,690	8.42 m
-1.5 m	kg			*10,010	*10,010	*9,840	6,370	7,070	4,220	5,120	3,130	*4,700	2,930	7.93 m
-3.0 m	kg			*8,610	*8,610	*7,450	6,480	*5,650	4,290			*3,790	3,480	7.10 m
-4.5 m	kg			*11,930	*11,930	*6,740	*6,740					*1,830	*1,830	5.76 m

SK210NLC		Boom: 2 piece boom		Arm: 2.94 m		Bucket: without		Shoe: 600 mm (Heavy Lift)		At Max. Reach		Radius		
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
B		Rating over front		Rating over front		Rating over front		Rating over front		Rating over front				
9.0 m	kg					*5,890	*5,890					*4,940	*4,940	4.74 m
7.5 m	kg					*6,780	*6,780	*5,690	5,020			*4,050	*4,050	6.49 m
6.0 m	kg					*6,880	*6,880	*4,630	*4,630	*4,110	3,310	*3,710	3,260	7.55 m
4.5 m	kg			*10,470	*10,470	*9,190	7,530	*7,640	4,760	*4,830	3,270	*3,590	2,750	8.21 m
3.0 m	kg	*31,530	*31,530	*16,390	12,650	*10,820	6,770	7,770	4,420	*4,790	3,120	*3,620	2,490	8.55 m
1.5 m	kg			*17,880	11,190	*11,570	6,110	7,400	4,100	*5,150	2,970	*3,780	2,390	8.62 m
G.L.	kg	*19,960	*19,960	*14,880	10,820	*11,210	5,770	7,150	3,890	5,140	2,860	*4,120	2,430	8.42 m
-1.5 m	kg			*10,010	*10,010	*9,840	5,700	7,060	3,810	5,110	2,830	*4,700	2,650	7.93 m
-3.0 m	kg			*8,610	*8,610	*7,450	5,810	*5,650	3,870			*3,790	3,160	7.10 m
-4.5 m	kg			*11,930	11,860	*6,740	6,170					*1,830	*1,830	5.76 m

### Notes:

- 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.
- 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.
- Arm top defined as lift point.
- 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.
- 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.
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

SK210SNLC		Boom: 2 piece boom		Arm: 2.94 m		Bucket: without		Shoe: 500 mm (Heavy Lift)						
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
9.0 m	kg					*5,890	*5,890					*4,940	*4,940	4.74 m
7.5 m	kg					*6,780	*6,780	*5,690	4,980			*4,050	*4,050	6.49 m
6.0 m	kg					*6,880	*6,880	*4,630	*4,630	*4,110	3,300	*3,710	3,250	7.55 m
4.5 m	kg			*10,470	*10,470	*9,190	7,420	*7,640	4,720	*4,830	3,260	*3,590	2,750	8.21 m
3.0 m	kg	*31,530	*31,530	*16,390	12,230	*10,820	6,670	*8,160	4,390	*4,790	3,120	*3,620	2,490	8.55 m
1.5 m	kg			*17,880	10,830	*11,570	6,020	7,840	4,080	*5,150	2,960	*3,780	2,390	8.62 m
G.L.	kg	*19,960	*19,960	*14,880	10,470	*11,210	5,690	7,590	3,860	5,460	2,850	*4,120	2,430	8.42 m
-1.5 m	kg			*10,010	*10,010	*9,840	5,620	7,500	3,790	5,440	2,830	*4,700	2,650	7.93 m
-3.0 m	kg			*8,610	*8,610	*7,450	5,730	*5,650	3,850			*3,790	3,150	7.10 m
-4.5 m	kg			*11,930	11,470	*6,740	6,090					*1,830	*1,830	5.76 m

SK210SNLC		Boom: 2 piece boom		Arm: 2.40 m		Bucket: without		Shoe: 500 mm (Heavy Lift)						
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
9.0 m	kg											*7,980	*7,980	3.73 m
7.5 m	kg					*8,840	7,940					*6,070	5,060	5.80 m
6.0 m	kg					*9,010	7,750	*5,600	4,840			*5,140	3,680	6.97 m
4.5 m	kg			*14,160	13,720	*10,120	7,190	*4,780	4,630	*5,250	3,200	*4,730	3,050	7.68 m
3.0 m	kg			*15,820	12,250	*11,260	6,460	8,120	4,320	*5,510	3,090	*4,590	2,750	8.05 m
1.5 m	kg			*17,910	10,990	*11,620	5,910	7,790	4,040	5,580	2,960	*4,660	2,640	8.12 m
G.L.	kg	*25,340	*25,340	*15,680	10,590	*10,810	5,690	7,590	3,880	5,500	2,890	*4,940	2,700	7.91 m
-1.5 m	kg			*9,830	*9,830	*9,070	5,700	*7,040	3,850			*4,820	2,980	7.39 m
-3.0 m	kg					*6,260	5,870	*4,600	3,990			*3,560	*3,560	6.48 m

## SK210<sub>SNLC</sub>



## STANDARD EQUIPMENT

### ENGINE

- HINO J05EVA-KSDA/J05EVA-KSDN diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V - 112Ah)
- 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
- Object Handling Kit (Boom and arm safety valve + hook)
- Extra N&B piping (Proportional hand controlled)

### 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
- Hydraulic fluid filter clog detector
- Hydraulic pressure adjustment function for N&B piping
- Quick hitch piping

### MIRRORS, LIGHTS & CAMERA

- Rear view mirrors
- Three front working lights (two for boom and one for right storage box)
- Rear & right side view camera

### CAB & CONTROL

- Two control levers, pilot-operated
- 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 (Standard for N&B piping specification)
- Air suspension seat with heater
- EU radio (AUX, USB, and Bluetooth)
- Top guard (ISO10262:1998)
- Remote machine monitoring system "KOMEXS"
- Tow eyes
- Refilling pump

## OPTIONAL EQUIPMENT

- Various optional arms
- Wide range of shoes
- Additional track guide
- Two cab lights
- Extended guard rail
- Rain visor (May interfere with bucket action)
- N&B piping (Proportional hand controlled)

- Cab guard
- Travel alarm (SK210LC/SK210NLC)
- Lower under cover
- Air suspension seat with heater (Optional for N&B piping specification)

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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## KOBELCO CONSTRUCTION MACHINERY EUROPE B.V.

Veluwezoom 15  
1327 AE Almere  
The Netherlands  
www.kobelco-europe.com

Enquiries To: