

# KOBELCO

## SK250 SK260<sub>LC</sub>



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

# Power Meets Efficiency

**17%**  
Higher fuel efficiency  
means  
"Efficiency"

Compared to H-mode on the SK250-8

Increase in  
productivity  
means  
"Power"



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 SK250/SK260LC 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 the world over.



## SK250 SK260<sub>LC</sub>

# Evolution Continues, with Improved Fuel Efficiency.

**17%**  
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 17%\*. The electronic-control common-rail engine features high-pressure fuel injection and multiple injection with improved precision. It is fitted with an EGR cooler which greatly reduce PM and NOx emissions and meets TIERIII Standards.

\* Compared to H-mode on the SK250-8

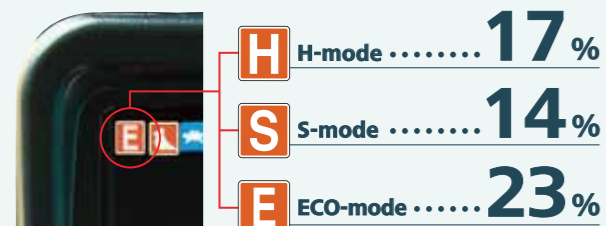


## In Pursuit of Improved Fuel Efficiency

### 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

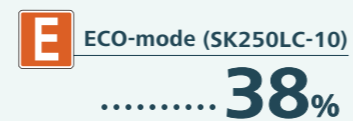


The figures are approximate improvement rate.

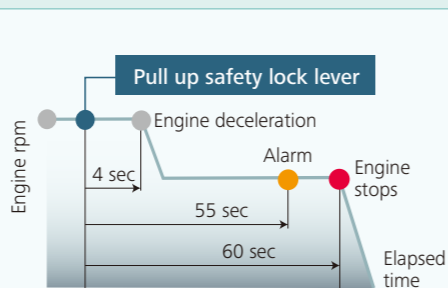
### Always and Forever. Yesterday, Today, and Tomorrow. Obsessed with Fuel Efficiency.

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)



The figure is approximate improvement rate.



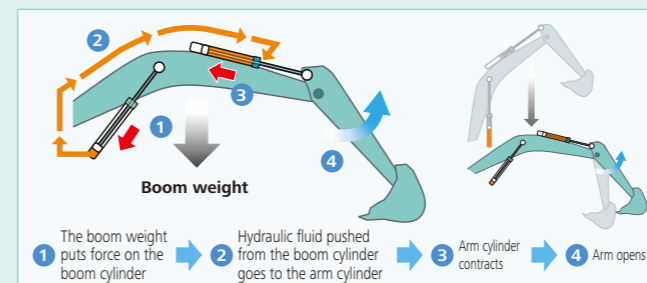
### AIS (Auto Idle Stop)

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.

## Hydraulic System: Revolutionary Technology Saves Fuel

### Arm Interflow System **NEW**

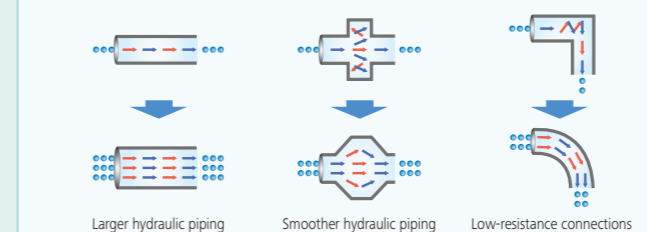
When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.



### 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.

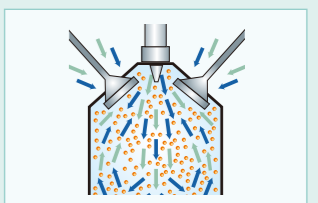
Improved hydraulic piping is an effective means of reducing pressure loss.



## Pursuing maximum fuel efficiency

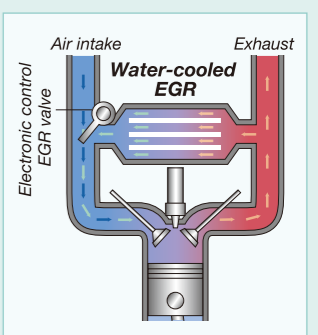
### Common rail system

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



### EGR cooler

While ensuring sufficient oxygen for combustion, cooled emission gases are mixed with the intake air and recirculated into the engine. This reduces oxygen content and lowers combustion temperature.



# 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.

## Superior Digging Force

■ Max. Bucket Digging Force

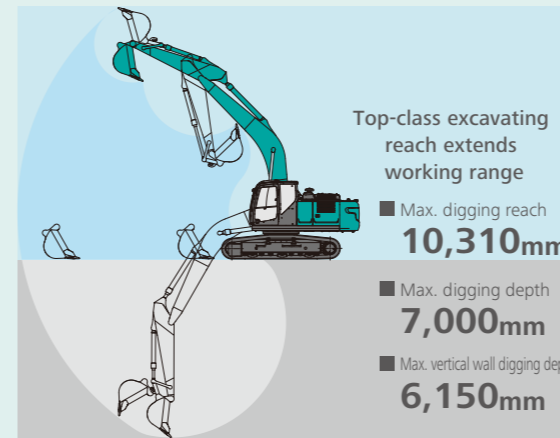
Normal: **170kN**  
With power boost: **187kN**

■ Max. Arm Crowding Force

Normal: **119kN**  
With power boost: **131kN**

\*Values are for HD arm (2.98m)

## Get More Done Faster with Superior Operability



\*Values are for HD arm (2.98m)

## Piping for Quick Hitch



A quick hitch hydraulic line, which speeds up attachment changes, is available as a standard.

## 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 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: **245kN**



## 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

### One-Touch Attachment Mode Switch

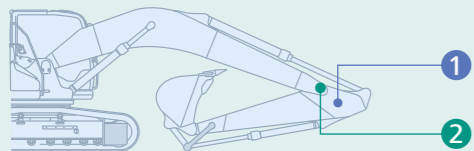
A simple flick of a switch converts the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.



# 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.

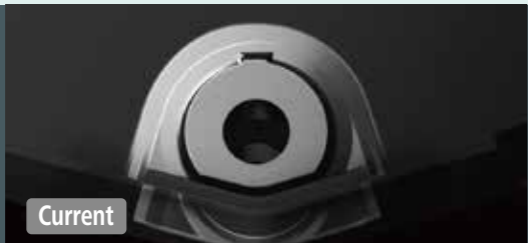
### 1 Enlarged Reinforcement of the Arm Foot

HD: Base plate thickness has been increased.



### 2 Modified Foot Boss Shape

The arm foot boss shape has been modified and improved to distribute stress, delivering 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.

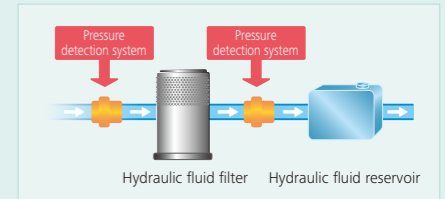
### Hydraulic Fluid Filter

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

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.



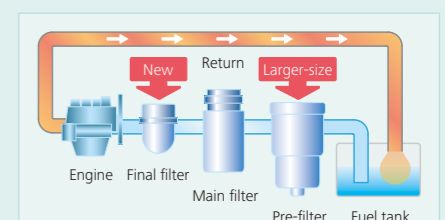
### Metal mesh cover air cleaner

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, with a new final stage to maximize filtering performance.



# Comfortable Cab Is Now Safer than Ever.

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



The picture is optional air suspension seat.

## Comfort

### Super-Airtight Cab



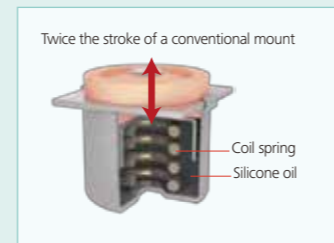
The high level of air-tightness keeps dust out of the cab.

### 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 Register behind the Seat NEW



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

### More Comfortable Seat Means Higher Productivity



Seat suspension absorbs vibration



Seat recliner can be pushed back flat



Double slides allow adjustment for optimum comfort

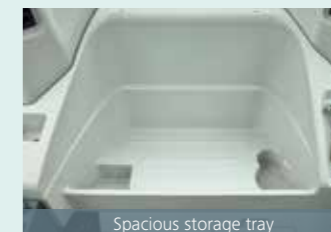
### Interior Equipment Adds to Comfort and Convenience



Automatic AM/FM radio



USB pin/12V power outlet



Spacious storage tray



Large cup holder

### Large Cab Is Easy to Get in and out of

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



## Safety

### ROPS Cab

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

- TOP Guard is fitted as standard.

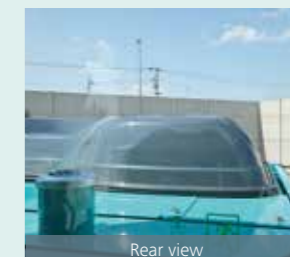


### Expanded Field of View for Greater Safety



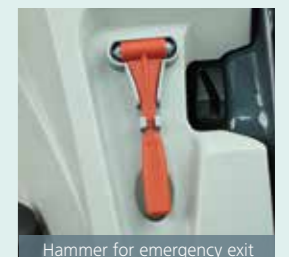
Rearview mirrors left and right

Greater safety assured by rearview mirrors on left and right.

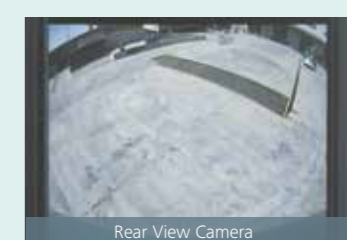


Rear view

Rear view shows the area directly behind the cab.



Hammer for emergency exit



Rear View Camera

A rear view camera is installed as standard 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.

# GEOSCAN

## Excavator Remote Monitoring System



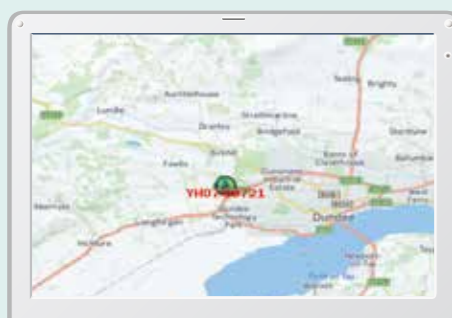
### Remote Monitoring for Peace of Mind

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

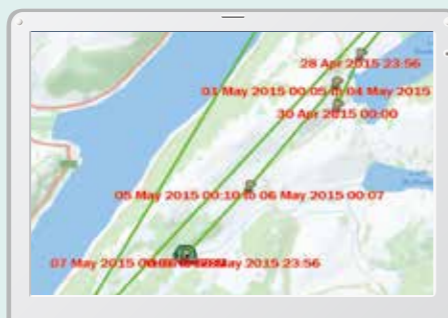
### Direct Access to Operational Status

#### Location Data

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



Latest location



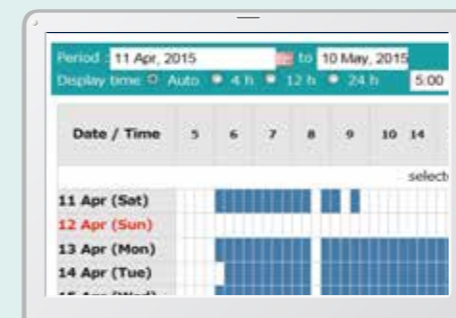
Location records



Work data

### Operating Hours

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



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	YH07-09721	734 Hr	434
SK135SRLC-3/SK140SRL	YH07-09789	73 Hr	429
SK210LC-9	YQ13-10454	960 Hr	58
SK210LC-9	YQ13-10481	549 Hr	498
SK75SR-	YT08-30174		

Maintenance

#### Warning Alerts

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

### Alarm Information Can Be Received through E-mail

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



### Daily/Monthly Reports

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

### Security System

#### Engine Start Alarm

- 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

# Efficient Maintenance Keeps the Machine in Peak Operating Condition.



MAINTENANCE			
	INTERVAL	REMAINING	EXCHANGE
	TIME	DAY	6.7h
ENGINE OIL	500	495	--/--
FUEL FILTER	500	495	--/--
HYD. FILTER	1000	995	--/--
HYD. OIL	5000	4995	--/--

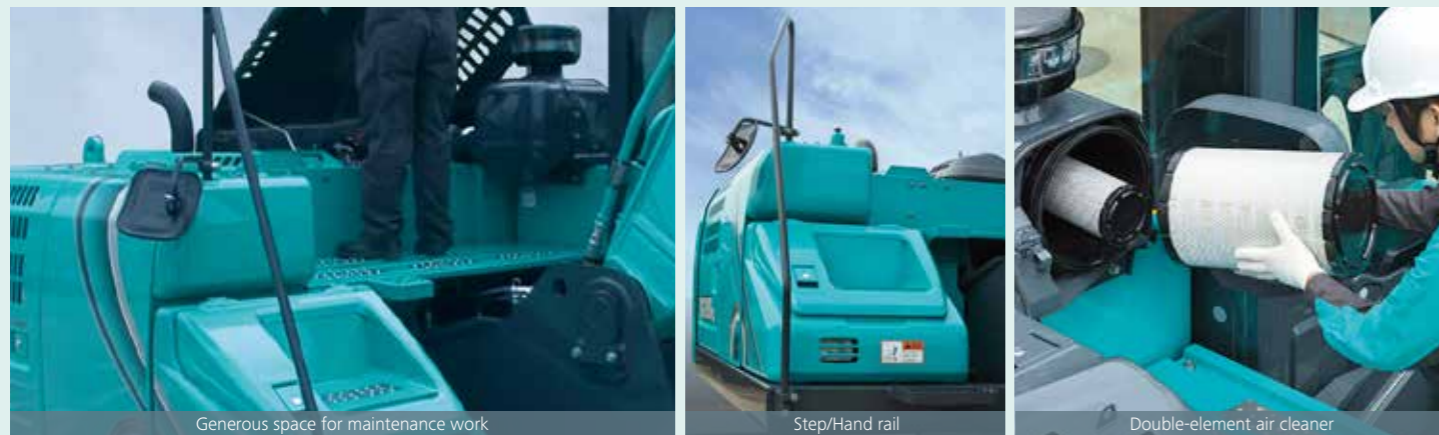
## Machine Information Display Function

- 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

Examples of displaying maintenance information

## 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

Double-element air cleaner

## More Efficient Maintenance Inside the Cab



Easy-access fuse box

Air conditioner filters

More finely differentiated fuses make it easier to locate malfunctions.

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

## Easy Cleaning



Crawler frame

Detachable two-piece floor mat

Engine oil pan

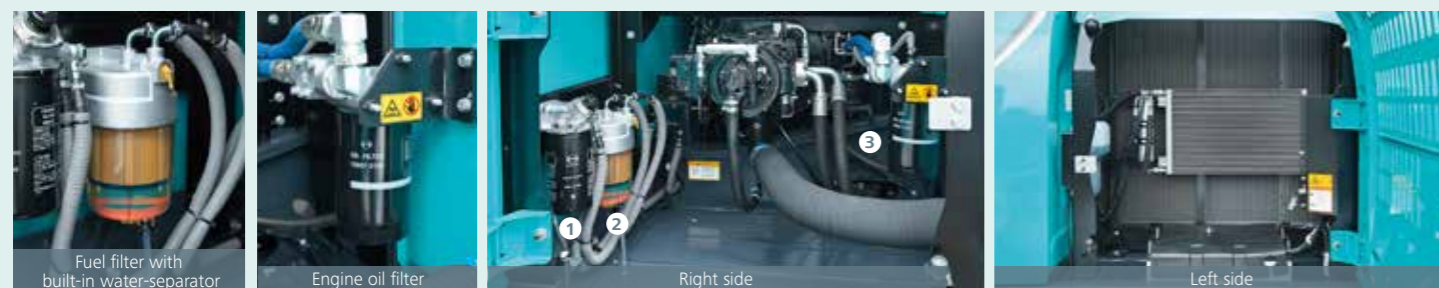
Special crawler frame design is easily cleaned of mud.

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

Engine oil pan equipped with drain valve.

## 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.



Fuel filter with built-in water-separator

Engine oil filter

Right side

Left side

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

Laid out for easy access to radiator and cooling system elements

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	J05ETB-KSSF
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	137 kW/2,100 min <sup>-1</sup> (ISO 14396:Without fan)
	132 kW/2,100 min <sup>-1</sup> (ISO 9249:With fan)
Max. torque	654 N·m/1,600 min <sup>-1</sup> (ISO 14396:Without fan)
	639 N·m/1,600 min <sup>-1</sup> (ISO 9249:With fan)

## Hydraulic System

Pump	
Type	Two variable displacement pumps + one gear pump
Max. discharge flow	2 x 245 L/min, 1 x 21 L/min
Relief valve setting	
Boom, arm and bucket excavating circuits(main)	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	28.4 MPa {296 kgf/cm <sup>2</sup> }
Pilot 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	10.8 min <sup>-1</sup> {rpm}
Tail swing radius	3,100 mm
Min. front swing radius	3,910 mm

## Attachments

Backhoe bucket and combination

Use	Backhoe bucket					
	Normal digging			Light-duty		
Bucket capacity	ISO heaped	m <sup>3</sup>	0.81	1.0	1.2	1.4
Struck		m <sup>3</sup>	0.59	0.76	0.84	1.0
Opening width	With side cutter	mm	1,060	1,270	1,440	-
	Without side cutter	mm	960	1,120	1,340	1,510
No. of teeth			4	5	5	6
Bucket weight		kg	700	810	850	890
Combination	2.5 m short arm		○	○	◎	△
	2.98 m standard arm		○	◎	△	△
	3.66 m long arm		◎	△	△	×

◎ Standard ○ Recommended △ Loading only × Not recommended

## 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	47 (51) each side
Travel speed	6.1/3.8 km/h
Drawbar pulling force	246 (245)kN (ISO 7464)
Gradeability	70 % {35°}

( ) show SK260LC

## 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	135 mm x 1,235 mm
Arm cylinder	145 mm x 1,635 mm
Bucket cylinder	125 mm x 1,200 mm

## Refilling Capacities & Lubrications

Fuel tank	403 L
Cooling system	21 L
Engine oil	21 L
Travel reduction gear	2 x 5.0 L
Swing reduction gear	5.0 L
Hydraulic oil tank	165 L tank oil level
	273 L hydraulic system

## Working Ranges

Range	Arm	6.02 m		
		Short 2.5 m	Standard 2.98 m	Long 3.66 m
a- Max. digging reach		9.89	10.3	10.98
b- Max. digging reach at ground level		9.72	10.14	10.82
c- Max. digging depth		6.52	7.0	7.68
d- Max. digging height		9.65	9.79	10.22
e- Max. dumping clearance		6.72	6.88	7.28
f- Min. dumping clearance		3.03	2.55	1.87
g- Max. vertical wall digging depth		5.82	6.15	6.97
h- Min. swing radius		3.91	3.91	3.92
i- Horizontal digging stroke at ground level		4.2	5.26	6.48
j- Digging depth for 2.4 m (8') flat bottom		6.32	6.82	7.53
Bucket capacity ISO heaped m <sup>3</sup>		1.2	1.0	0.81

Unit: m

Digging Force (ISO 6015)			
Arm length	Unit: kN (tf)		
	Short 2.5 m	Standard 2.98 m	Long 3.66 m
Bucket digging force	170 {17.3}	170 {17.3}	170 {17.3}
	187 {19.1}*	187 {19.1}*	187 {19.1}*
Arm crowding force	142 {14.5}	119 {12.1}	104 {10.6}
	196 {15.9}*	131 {13.4}*	

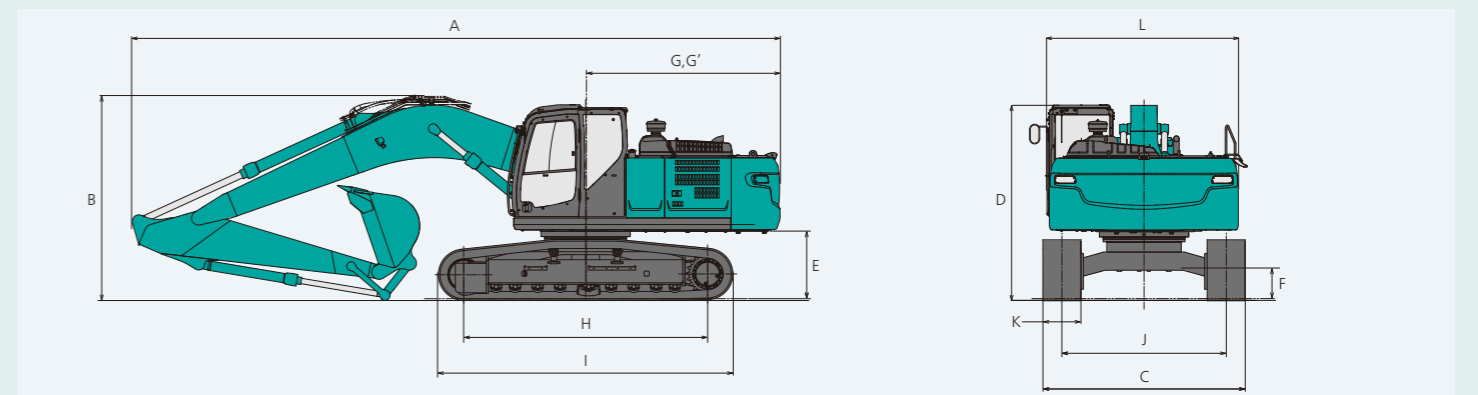
\*Power Boost engaged.

## Dimensions

Arm length	Short 2.5 m	Standard 2.98 m	Long 3.66 m
A Overall length	10,270	10,210	10,230
B Overall height (to top of boom)	3,350	3,230	3,300
C Overall width of crawler	SK250	2,990	
	SK260LC	3,190	
D Overall height (to top of cab)	3,090		
E Ground clearance of rear end*	1,090		
F Ground clearance*	460		
G Tail swing radius	3,100		

Unit: mm		
G'	Distance from center of swing to rear end	3,070
H Tumbler distance	SK250	3,470
	SK260LC	3,850
I Overall length of crawler	SK250	4,260
	SK260LC	4,640
J Track gauge	SK250	2,390
	SK260LC	2,590
K Shoe width		600
L Overall width of upperstructure		2,980

\*Without including height of shoe



## Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.98 m arm, and 1.0 m<sup>3</sup> ISO heaped bucket

Shaped	Triple grouser shoes (even height)			
	mm	600	700	800
Shoe width	mm	2,990	3,090	3,190
Overall width of crawler	SK250	3,190	3,290	3,390
	SK260LC			
Ground pressure	SK250 kPa (kgf/cm <sup>2</sup> )	55 (0.56)	47 (0.48)	42 (0.43)
	SK260LC kPa (kgf/cm <sup>2</sup> )	51 (0.52)	44 (0.45)	39 (0.40)
Operating weight	SK250 kg	25,100	25,400	25,600
	SK260LC kg	25,700	26,000	26,300

