

KOBELCO

SK330-10/SK350LC-10

SK330 SK350_{LC}



We Save You Fuel
Achieving a Low-Carbon Society

Power Meets Efficiency



SK330 SK350 LC

16%
Higher fuel saving
means
"Efficiency"

Compared to H-mode on the SK330-8

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 SK330 SK350LC 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.



* The picture shows the standard bucket for Taiwan.
N&B piping is standard equipment.

Evolution Continues, with Improved Fuel Efficiency.

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	16%
S S-mode	19%
E ECO-mode	24%

Values are approximate improvement rate.

Always and Forever.

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

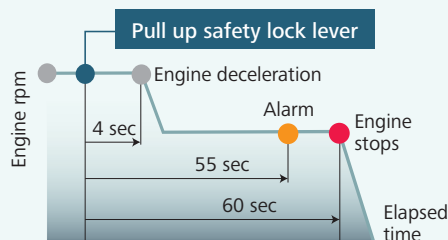
Over the past 10 years, Kobelco has achieved an average reduction of about 44% in fuel consumption. And we vow to continue to lead in fuel efficiency.

■ Compared to SK330-6 model (2006)

E ECO-mode (SK330-10)
..... **44%**

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 CO₂ emissions as well.





16%
Higher fuel saving
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. It is fitted with an EGR cooler which greatly reduces PM and NOx emissions, and meets TIER III Standards.

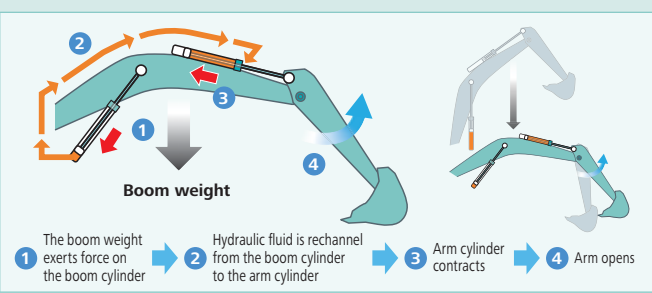
* Compared to H-mode on the SK330-8

* The picture shows the standard bucket for Taiwan. N&B piping is standard equipment.

Hydraulic System: Revolutionary Technology Saves Fuel

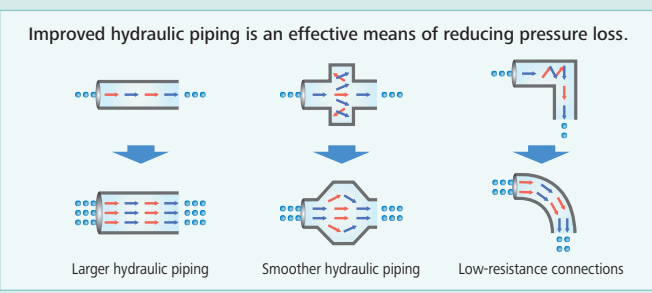
Arm Interflow System NEW

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



Hydraulic Circuit Reduces Energy Loss

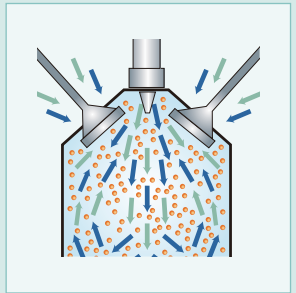
We have made every effort to enhance fuel efficiency by minimizing hydraulic pressure resistance, improving the hydraulic line layout to control friction resistance loss and minimizing valve resistance.



Pursuing maximum fuel efficiency

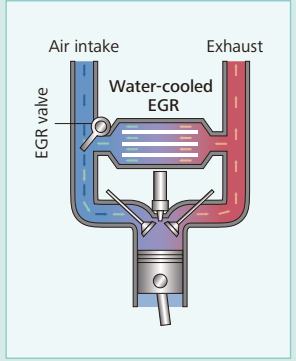
Common Rail System

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 there by 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: **229 kN**

With power boost: **252 kN**

■ Max. Arm Crowding Force

Normal: **165 kN**

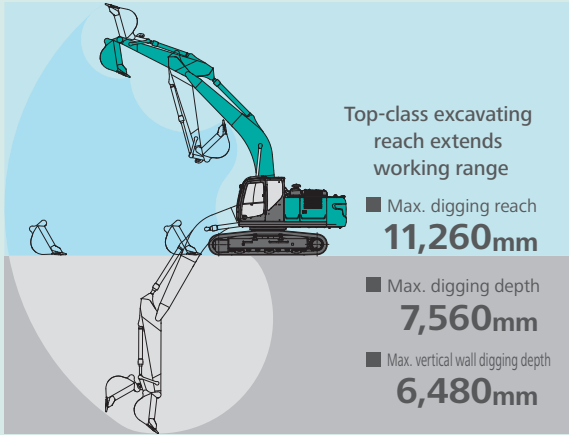
With power boost: **182 kN**

*Values are for STD arm (3.3m)



* The picture shows the standard bucket for Taiwan.
N&B piping is standard equipment.

Get More Done Faster with Superior Operability



*Values are for STD arm (3.3m)

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.



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



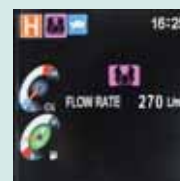
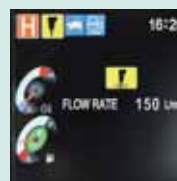
Multi-Display in Color

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.

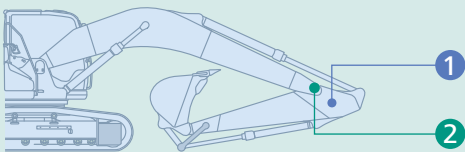
- 1 Analog gauge provides an intuitive reading of fuel level and engine water temperature
- 2 Green indicator light shows low fuel consumption during operation
- 3 Fuel consumption/Switch indicator for rear camera images
- 4 Digging mode switch
- 5 Monitor display switch

One-Touch Attachment Mode Switch

A simple 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



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.

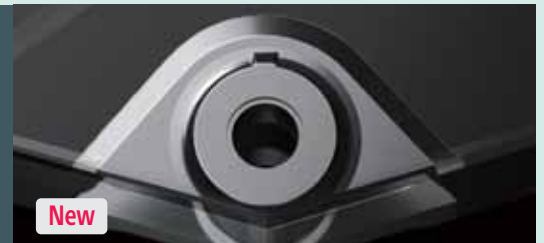
1 Enlarged Reinforcement of the Arm Foot

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.





Increase in productivity means "Power"

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

* The picture shows the standard bucket for Taiwan. N&B piping is standard equipment.

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.

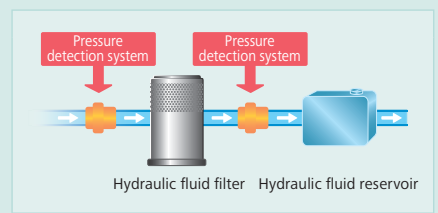
Hydraulic Fluid Filter NEW

Recognized as the best in the industry, our Premium-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.



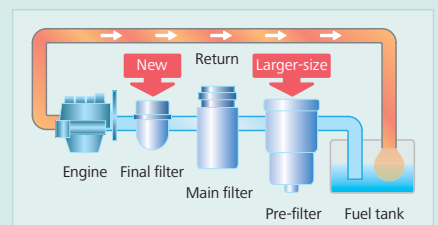
Metal Mesh Cover Air Cleaner NEW

Metal mesh cover ensures strength and durability.



Fuel Filter

The pre-filter with built-in water separator has 1.8 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.

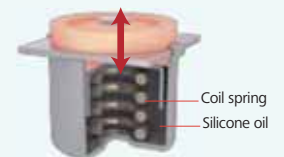
Quiet Inside

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.

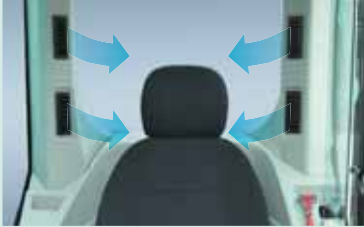
Twice the stroke of a conventional mount



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 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 suspension absorbs vibration



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.

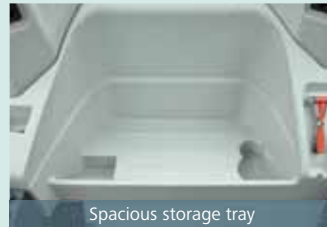
Interior Equipment Adds to Comfort and Convenience



Automatic AM/FM radio



24V power outlet



Spacious storage tray



Large cup holder

Safety

ROPS Cab

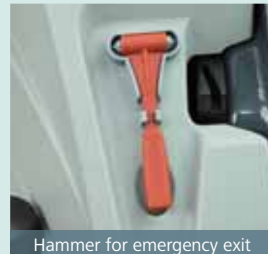
ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.



Expanded Field of View for Greater Safety

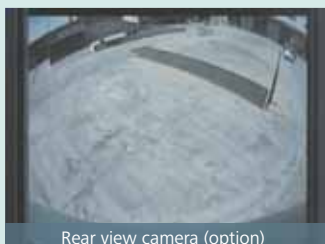


Rearview mirrors left and right



Hammer for emergency exit

Greater safety assured by rearview mirrors on left and right.



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.



* The picture shows the standard bucket for Taiwan.
N&B piping is standard equipment.

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



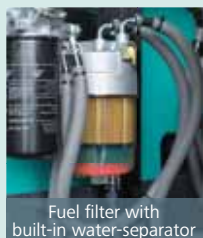
Step/Hand rail

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.



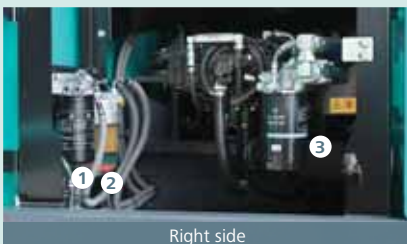
Double-element air cleaner



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.

Efficient Maintenance Keeps the Machine in Peak Operating Condition.



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

6.7h

Machine Information Display Function

Examples of displaying maintenance information

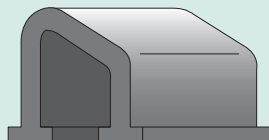
- Displays only the maintenance information that's needed, when it's needed
- Self-diagnostic function provides early-warning detection and display of electrical system malfunctions
- Service-diagnostic function makes it easier to check the status of the machine
- Record function of previous breakdowns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

Easy Cleaning



Crawler frame

Special crawler frame design for easy mud removal cleaning.



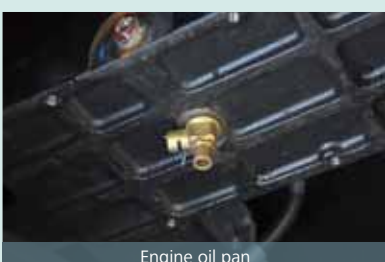
Floor mat with raised edges

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



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 Premium-fine Filter

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



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 J08ETM-KSDM
Type	Four-stroke liquid-cooled direct injection diesel turbo charged with intercooler (Stage 3-compliant engine)
No. of cylinders	6
Bore and stroke	112 mm X 130 mm
Displacement	7.684 L
Rated power output	197 kW/2,100 min ⁻¹ (ISO 9249)
	209 kW/2,100 min ⁻¹ (ISO 14396)
Max. torque	969 N·m/1,600 min ⁻¹ (ISO 9249)
	998 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 294 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 valves	8-spool
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 neutral position
Parking brake	Wet multiple plate
Swing speed	10 min ⁻¹ {rpm}
Tail swing radius	3,600 mm
Min. front swing radius	4,310 mm



Attachments

Backhoe bucket and arm combination

Model			SK330		SK350LC	
Bucket capacity	ISO heaped	m ³	1.50 Reinforced Bucket	1.40 Standard Bucket	1.60 Reinforced Bucket	1.60 Standard Bucket
	ISO struck	m ³	1.10	1.00	1.20	1.20
Opening width	With side cutter	mm	1,390	1,420	1,470	1,570
	Without side cutter	mm	1,390	1,390	1,470	1,450
No. of teeth			5	5	5	5
Bucket weight		kg	1,510	1,080	1,560	1,150
Combination	3.30 standard arm		⊙	⊙	⊙	⊙
	4.15 long arm		x	○	x	○

Reinforced Bucket: for Hong Kong ; Standard Bucket: for Taiwan.
 ⊙ Standard combination ○ Optional combination



Travel System

Travel motors	Variable displacement piston pump	
Travel brakes	Hydraulic	
Parking brakes	Wet multiple plate	
Travel shoes	SK330	45 each side
	SK350LC	48 each side
Travel speed	5.6/3.3 km/h	
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	



Boom, Arm & Bucket

Boom cylinders	140 mm x 1,550 mm
Arm cylinder	170 mm x 1,788 mm
Bucket cylinder	150 mm x 1,193 mm



Refilling Capacities & Lubrications

Fuel tank	503 L
Cooling system	35 L
Engine oil	28.5 L
Travel reduction gear	2 x 8.0 L
Swing reduction gear	7 L
Hydraulic oil tank	245 L tank oil level
	410 L hydraulic system



Working Ranges

Unit: m

Boom		6.50 m		
Range	Arm	Standard 3.3 m		Long 4.15 m
		Reinforced Bucket	Standard Bucket	Standard Bucket
a-Max. digging reach		11.26		11.97
b-Max. digging reach at ground level		11.06		11.79
c-Max. digging depth		7.56		8.41
d-Max. digging height		10.54	10.58	10.70
e-Max. dumping clearance		7.37		7.53
f-Min. dumping clearance		2.62		1.77
g-Max. vertical wall digging depth		6.48	6.61	7.15
h-Min. swing radius		4.31		4.43
i-Horizontal digging stroke at ground level		5.82		7.21
j-Digging depth for 2.4 m (8') flat bottom		7.40		8.27
Bucket capacity (ISO heaped) m ³		1.50	1.40	1.40

Reinforced Bucket: for Hong Kong ; Standard Bucket: for Taiwan.

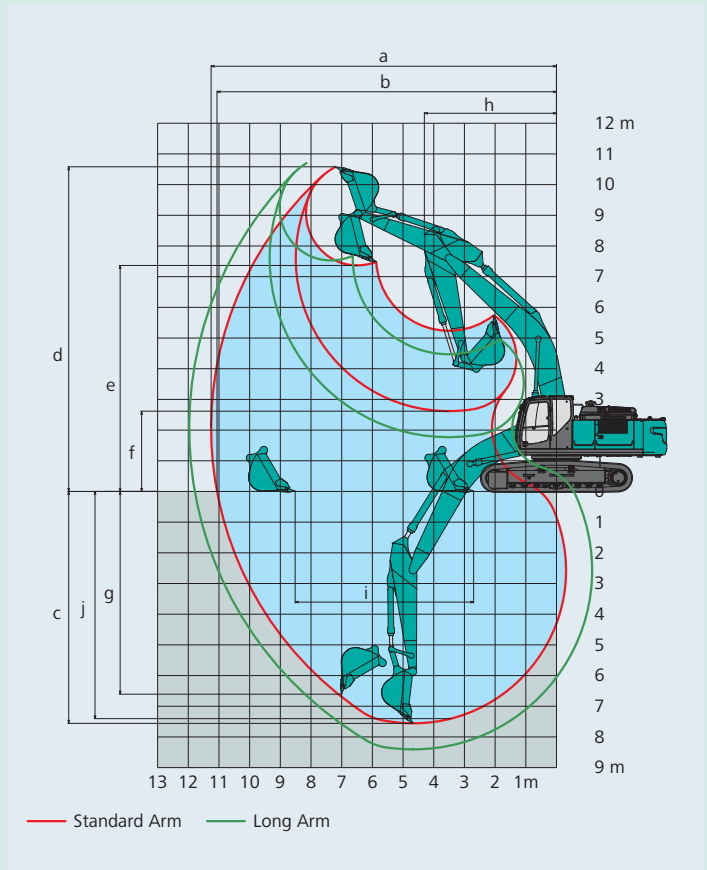
Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 3.3 m		Long 4.15 m
	Reinforced Bucket	Standard Bucket	Standard Bucket
Bucket digging force	229	222	222
	252*	244*	244*
Arm crowding force	165	163	140
	182*	180*	154*

Reinforced Bucket: for Hong Kong ; Standard Bucket: for Taiwan.

*Power Boost engaged.



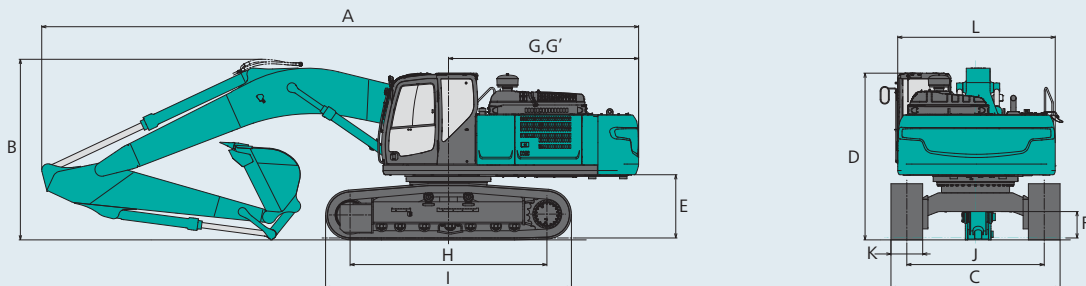
Dimensions

Unit: mm

Arm length		Standard 3.3 m	Long 4.15 m
A Overall length		11,300	11,330
B Overall height (to top of boom)		3,430	3,600
C Overall width		3,190	
D Overall height (to top of cab)		3,150	
E Ground clearance of rear end*		1,190	
F Ground clearance*		500	
G Tail swing radius		3,600	

G' Distance from center of swing to rear end		3,600
H Tumbler distance	SK330	3,720
	SK350LC	4,050
I Overall length of crawler	SK330	4,630
	SK350LC	4,960
J Track gauge		2,590
K Shoe width		600
L Overall width of upperstructure		2,980

*Without including height of shoe lug



Operating Weight & Ground Pressure

In standard trim, with standard boom, 3.30 m arm

Model	SK330							SK350LC					
	Reinforced Bucket			Standard Bucket				Reinforced Bucket			Standard Bucket		
Shoe width	mm	600	700	800	600	700	800	600	700	800	600	700	800
Overall width of crawler	mm	3,190	3,290	3,390	3,190	3,290	3,390	3,190	3,290	3,390	3,190	3,290	3,390
Ground pressure	kPa	72	63	56	71	62	55	68	60	53	67	59	52
Operating Weight	kg	35,600	36,300	36,700	35,100	35,900	36,300	36,300	37,200	37,600	35,900	36,700	37,200

Reinforced Bucket: for Hong Kong ; Standard Bucket: for Taiwan.

STANDARD EQUIPMENT**ENGINE**

- Engine, HINO J08ETM-KSDM, 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

- Auto warm up system
- Aluminum hydraulic oil cooler
- Arm interflow system
- Hydraulic fluid filter clog detector
- N & B piping
- Multi control valve

MIRRORS & LIGHTS

- Two rear view mirrors
- Five front working lights (Two for boom, one for right storage box and two for cab)

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
- KOMEXS
- suspension seat
- Radio, AM/FM stereo with speaker
- Boom & Arm safety valve
- Travel alarm
- 24V outlet
- Battery shut-off switch

OPTIONAL EQUIPMENT

- Additional track guide
- Rotatory N & B piping
- Refilling pump
- Rear view camera
- 700mm shoes
- 800mm shoes
- 4.15m long arm (only for N & B piping)
- Lower under cover
- Swing flashers

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. Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalog may be reproduced in any manner without notice.

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