

KOBELCO

SK330 SK350_{LC}



We Save You Fuel
Achieving a Low-Carbon Society

Power Meets Efficiency



SK330 SK350_{LC}

16%
Higher fuel saving
means
"Efficiency"

Increase in
productivity
means
"Power"

Compared to H-mode on the SK330-8

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.



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.**

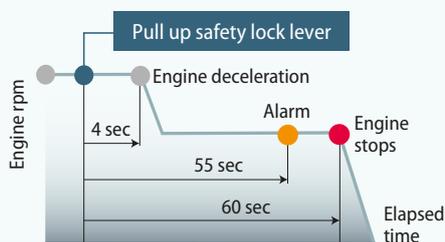
Over the past 10 years, Kobelco has achieved an average reduction of about 37% in fuel consumption. And we vow to continue to lead in fuel efficiency.

■ Compared to SK330-6 (2006)

E ECO-mode (SK330-10)	37%
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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.

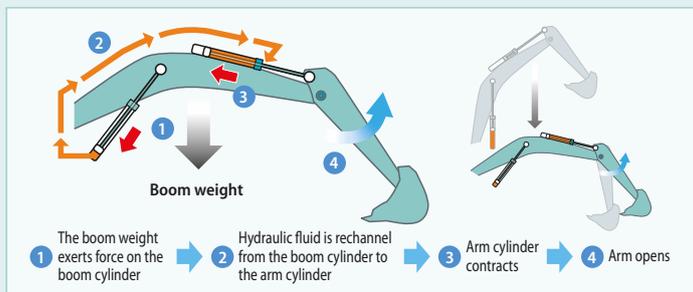
It is fitted with an EGR cooler which greatly reduces PM and NOx emissions, and meets TIER III Standards.

* Compared to H-mode on the SK330-8

Hydraulic System: Revolutionary Technology Saves Fuel

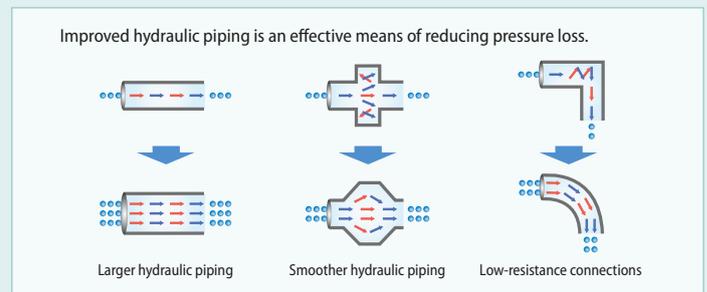
Arm Interflow System NEW

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



Hydraulic Circuit Reduces Energy Loss

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



Pursuing Maximum Fuel Efficiency

Common Rail System

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



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: **222kN**

With Power Boost: **244kN**

■ Max. Arm Crowding Force

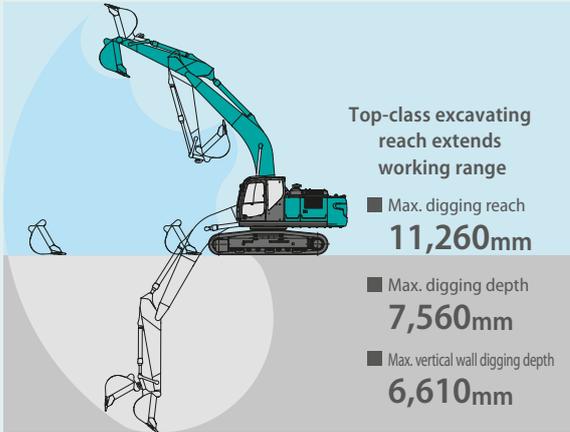
Normal: **163kN**

With Power Boost: **180kN**

*Values are for Standard HD arm (3.30m) and 1.40m³ bucket



Get More Done Faster with Superior Operability



*Values are for Standard HD arm (3.30m) and 1.40m³ bucket

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 NEW Means Smoother, Less Tiring Work



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

*compared to SK330-8

Piping for Nibbler & Breaker



Piping for Nibbler & Breaker is fitted as standard.

Top Class Traveling Force

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

■ Drawbar Pulling Force: **316kN**



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

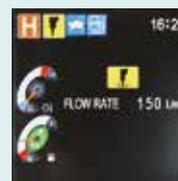
One-Touch Attachment Mode Switch

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.

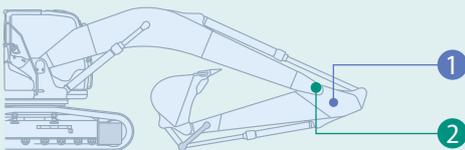


Maintenance

Item	Unit	Interval
ENGINE OIL	liters	495
FUEL FILTER	hours	495
HYD. FILTER	hours	995
HYD. OIL	hours	1995



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.



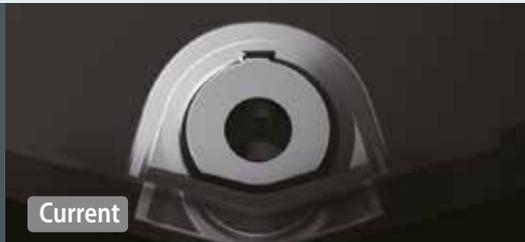
Current



New

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.



Current



New

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.

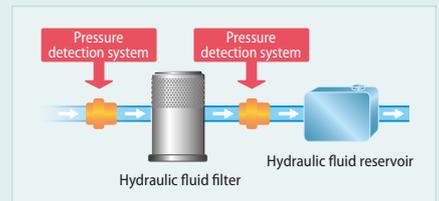
Hydraulic Fluid Filter **NEW**

Recognized as the best in the industry, our 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.



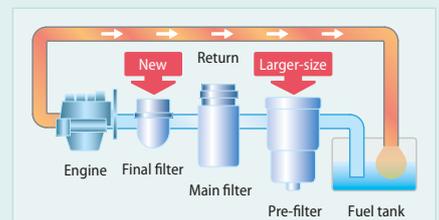
Metal Mesh Cover Air Cleaner **NEW**

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



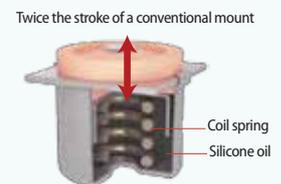
The high level of air-tightness keeps dust out of the cab.

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.

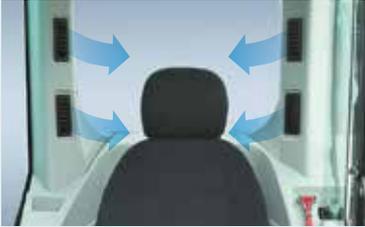


Broad View Liberates the Operator

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

Interior Equipment Adds to Comfort and Convenience



12V 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.



Expanded Field of View for Greater Safety

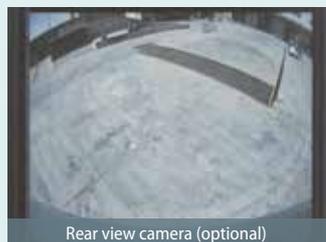


Rearview mirrors left and right



Hammer for emergency exit

Greater safety assured by rearview mirrors on left and right.



Rear view camera (optional)



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

*If the operating mass exceeds MAX. MASS (maximum operating mass) described on ROPS CERTIFICATION with the special attachment or others installed, it will cause insufficient protective function, resulting in serious accidents or death should the machine tip/ roll over.



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



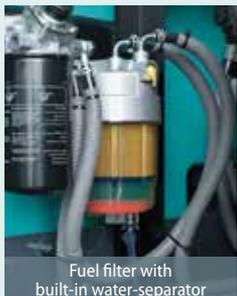
Step/Hand rail



Double-element air cleaner

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

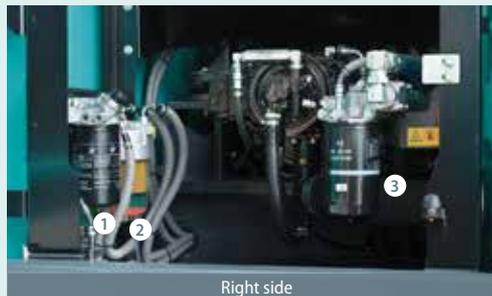
The layout allows for easy access from the ground for many daily checks and regular maintenance tasks.



Fuel filter with built-in water-separator



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.

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

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

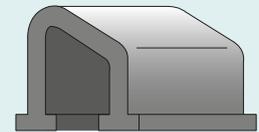


Air conditioner filters

Easy Cleaning



Crawler frame



Special crawler frame design for easy mud removal cleaning.



Detachable two-piece floor mat

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



Engine oil pan

Engine oil pan equipped with drain valve.

Long-life hydraulic oil:
2,000
hours

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Replacement cycle:
1,000
hours

Highly Durable Premium-fine Filter

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



KOMEXS

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

Direct Access to Operational Status

Location Data

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

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.

Fuel Consumption Data

Data on fuel consumption and idling times can be used to indicate improvements in 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 (N&B).



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.

Security System

Engine Start Alarm

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

Area Alarm

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

Note: KOMEXS is not applicable in some area due to country regulation of the communication lines or availability of infrastructure.



Engine

Model	HINO J08E-UN
Type	Four-stroke liquid-cooled direct injection diesel turbo charged with intercooler (Tier-3-compliant engine)
No. of cylinders	6
Bore and stroke	112 mm X 130 mm
Displacement	7.684 L
Rated power output	200 kW/2,100 min ⁻¹ (ISO 14396 without fan) 191 kW/2,100 min ⁻¹ (with fan)
Max. torque	998 N·m/1,600 min ⁻¹ (ISO 14396 without fan) 979 N·m/1,600 min ⁻¹ (with fan)



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 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	Wet multiple plate
Swing speed	10.2 min ⁻¹ {rpm}
Tail swing radius	3,600 mm
Min. front swing radius	4,310 mm



Attachments

Backhoe bucket and arm combination

Type			Standard bucket	Bottom plate reinforced bucket		Full HD bucket	
Bucket capacity	ISO heaped	m ³	1.40	1.40	1.60	1.60	1.80
	ISO Struck	m ³	1.00	1.00	1.20	1.20	1.40
Opening width	With side cutters	mm	1,420	1,420	1,600	1,470	1,670
	Without side cutters	mm	1,300	1,290	1,470	1,470	1,640
No. of teeth			5	5	5	5	5
Bucket weight		kg	1,070	1,170	1,280	1,560	1,830
Combinations	2.60m short HD arm		○	○	◎	○	△
	3.30m standard HD arm		○	◎	○	△	△

◎ Standard combination ○ General operation △ Light operation



Travel System

Travel motors	Variable displacement piston motors	
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	
Drawbar pulling force	316 kN (SAE 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	



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	26 L
Travel reduction gear	2 x 7.5 L
Swing reduction gear	7.4 L
Hydraulic oil tank	245 L tank oil level
	407 L hydraulic system

Working Ranges

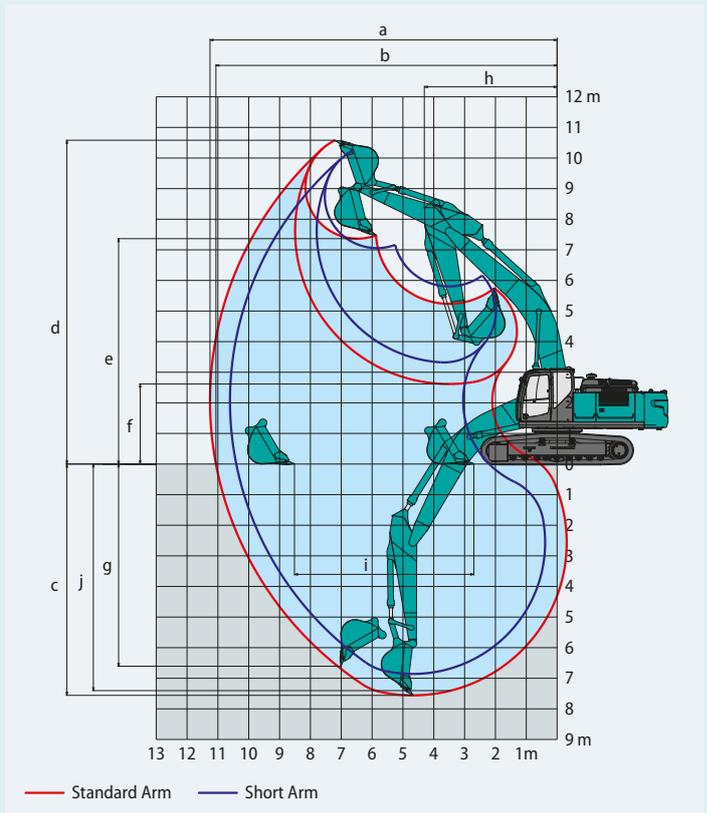
Unit: m

Boom		6.50 m	
Arm		Short 2.60 m	Standard 3.30 m
Range			
a- Max. digging reach		10.61	11.26
b- Max. digging reach at ground level		10.40	11.06
c- Max. digging depth		6.86	7.56
d- Max. digging height		10.26	10.58
e- Max. dumping clearance		7.06	7.37
f- Min. dumping clearance		3.32	2.62
g- Max. vertical wall digging depth		5.84	6.61
h- Min. swing radius		4.46	4.31
i- Horizontal digging stroke at ground level		4.21	5.82
j- Digging depth for 2.4 m (8') flat bottom		6.67	7.40
Bucket capacity ISO heaped m ³		1.40	1.40

Digging Force (ISO 6015) Unit: kN

Arm length	Short 2.60 m	Standard 3.30 m
Bucket digging force	222 244*	
Arm crowding force	205 225*	163 180*

*Power Boost engaged.



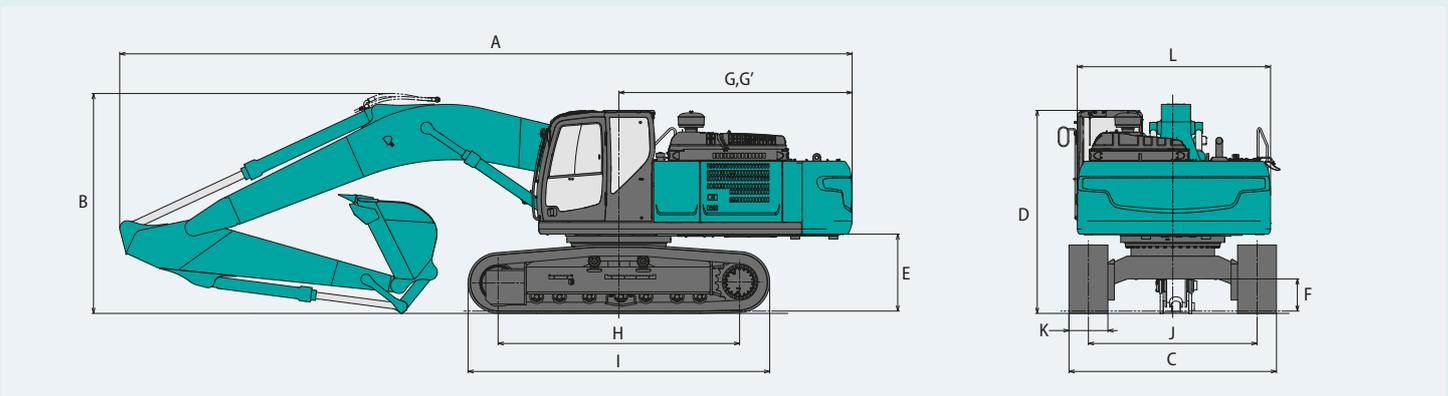
Dimensions

Arm length		Short 2.60 m	Standard 3.30 m
A	Overall length	11,380	11,300
B	Overall height (to top of boom)	3,690	3,430
C	Overall width of crawler	3,190	
D	Overall height (to top of cab)	3,150	
E	Ground clearance of rear end*	1,200	
F	Ground clearance*	500	
G	Tail swing radius	3,600	

Unit: mm

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	4,650
		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 HD boom (6.50m), Standard HD arm (3.30m), and 1.40 m³ ISO heaped bucket.

Shaped		Triple grouser shoes (even height)			
Shoe width	mm		600	700	800
Overall width	mm		3,190	3,290	3,390
Ground pressure	kPa	SK330	65	57	50
		SK350LC	66	58	51
Operating weight	kg	SK330	34,500	35,200	35,600
		SK350LC	35,200	36,000	36,400

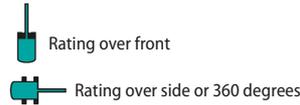
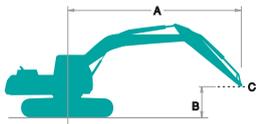
Lift Capacities

SK330

SK330-10

SK350 LC

SK350LC-10



A: Reach from swing centerline to arm top
 B: Arm top height above/below ground
 C: Lift capacities in Kilograms
 Bucket: Without bucket
 Relief valve setting: 34.3 MPa

SK330		Short HD Arm: 2.60 m		Bucket: Without		Shoe: 600 mm		Counterweight: 7,890 kg		At Max. Reach		Radius
A		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		
B												
7.5 m	kg											7.06 m
6.0 m	kg											8.00 m
4.5 m	kg											8.58 m
3.0 m	kg											8.87 m
1.5 m	kg											8.89 m
G.L.	kg											8.66 m
-1.5 m	kg											8.15 m
-3.0 m	kg											7.29 m
-4.5 m	kg											5.95 m

SK330		Standard HD Arm: 3.30 m		Bucket: Without		Shoe: 600 mm		Counterweight: 7,890 kg		At Max. Reach		Radius
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		
B												
9.0 m	kg											6.56 m
7.5 m	kg											7.86 m
6.0 m	kg											8.71 m
4.5 m	kg											9.25 m
3.0 m	kg											9.52 m
1.5 m	kg											9.54 m
G.L.	kg											9.33 m
-1.5 m	kg											8.85 m
-3.0 m	kg											8.07 m
-4.5 m	kg											6.88 m

SK350LC		Short HD Arm: 2.60 m		Bucket: Without		Shoe: 600 mm		Counterweight: 7,890 kg		At Max. Reach		Radius
A		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		
B												
7.5 m	kg											7.06 m
6.0 m	kg											8.00 m
4.5 m	kg											8.58 m
3.0 m	kg											8.87 m
1.5 m	kg											8.89 m
G.L.	kg											8.66 m
-1.5 m	kg											8.15 m
-3.0 m	kg											7.29 m
-4.5 m	kg											5.95 m

SK350LC		Standard HD Arm: 3.30 m		Bucket: Without		Shoe: 600 mm		Counterweight: 7,890 kg		At Max. Reach		Radius
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		
B												
9.0 m	kg											6.56 m
7.5 m	kg											7.86 m
6.0 m	kg											8.71 m
4.5 m	kg											9.25 m
3.0 m	kg											9.52 m
1.5 m	kg											9.54 m
G.L.	kg											9.33 m
-1.5 m	kg											8.85 m
-3.0 m	kg											8.07 m
-4.5 m	kg											6.88 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 pin is defined as lift point.
- The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift

- capacity or 75% of tipping load. Lift capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
- 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.

STANDARD EQUIPMENT

- ENGINE**
- HINO J08E-UN 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**
- Standard piping (Less N & B piping)
 - Arm interflow system
 - Auto warm up system
 - Aluminum hydraulic oil cooler
 - Hydraulic fluid filter clog detector
- MIRRORS & LIGHTS**
- Three working lights (two for boom, one for storage box)

- 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 remote machine monitoring system
- Suspension seat
- 12V outlet (DC/DC)

OPTIONAL EQUIPMENT

- Additional Track Guide
- Cab top work lights (two lights)
- Air suspension seat
- Travel alarm
- Lower frame guard
- Refueling pump
- Rear view camera
- Front guard
- 700mm steel shoe
- 800mm steel shoe
- Yellow rotating warning light
- E & N & B piping (foot control)
- N & B piping (foot control)
- N & B piping (foot control) + Boom & Arm Safety + Quick hitch piping
- Short HD arm (2.6m)
- 1.4m³ bucket General Duty
- 1.6m³ bucket General Duty
- 1.8m³ bucket Light Duty
- 1.4m³ reinforced bucket
- 1.6m³ reinforced bucket

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

Note: This catalogue 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.

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KOBELCO CONSTRUCTION MACHINERY EUROPE B.V.

Veluwezoom 15
 1327 AE Almere
 The Netherlands
<https://www.kobelcocm-global.com/>

Enquiries To: