

KOBELCO

SK300_{LC}



Built for Perfectionists™

Power Meets Efficiency



SK300_{LC}

Higher fuel
efficiency
means
"Efficiency"

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 SK300LC 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.



Evolution Continues, with Improved Fuel Efficiency

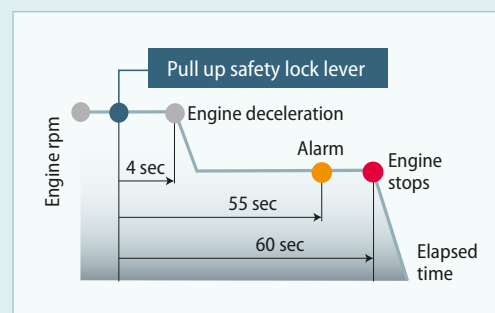
In Pursuit of Improved Fuel Efficiency

ECO-mode: engineered for economy

Kobelco's ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency. Just press a button to choose the operation mode best suited to the task at hand and the working conditions.

■ Optimal operation with three modes

- H** H-mode Maximum power for maximum productivity on your toughest jobs
- S** S-mode Ideal balance of productivity and fuel efficiency for a range of urban engineering projects
- E** ECO-mode Minimum fuel consumption for utility projects and other work that demands precision



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 CO₂ emissions as well.

Higher fuel efficiency means "Efficiency"

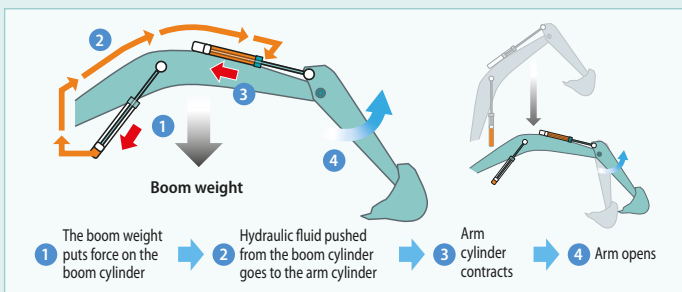
The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency. The electronic-control common-rail engine features high-pressure fuel injection and multiple injection with improved precision. It is fitted with an EGR cooler which greatly reduces PM and NOx emissions, and meets TIERIII Standards.



Hydraulic System: Revolutionary Technology Saves Fuel

Arm Interflow System NEW

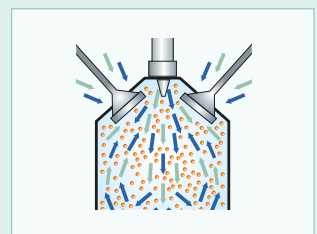
When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.



Pursuing maximum fuel efficiency

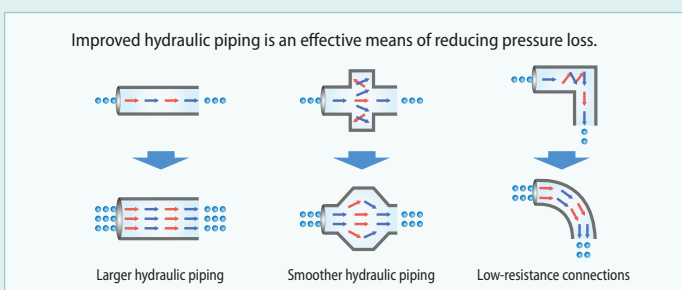
Common rail system

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



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.



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:

188kN

With Power Boost:

208kN

■ Max. Arm Crowding Force

Normal:

126kN

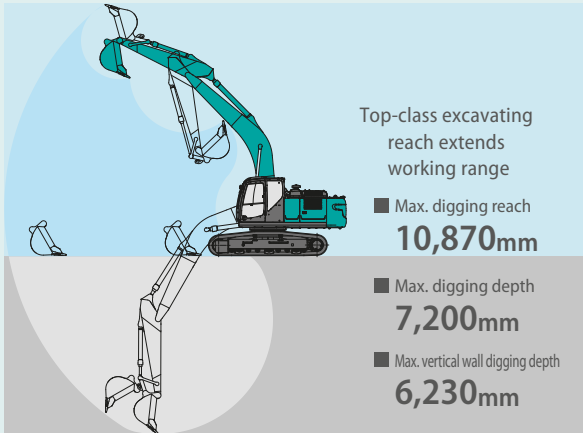
With Power Boost:

139kN

*Values are for Standard HD arm (3.10m)



Get More Done Faster with Superior Operability



*Values are for Standard HD arm (3.10m)

A Light Touch NEW on the Lever 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



Complying with Transport Regulations



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: **280kN**

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



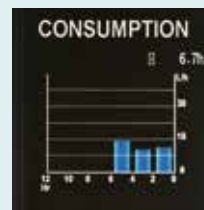
Multi-Display in Color

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.

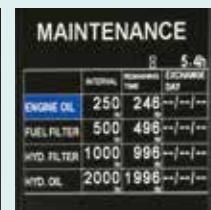
- 1 Analog gauge provides an intuitive reading of fuel level and engine water temperature
- 2 Green indicator light shows low fuel consumption during operation
- 3 Fuel consumption/Switch indicator for rear camera images
- 4 Digging mode switch
- 5 Monitor display switch

One-Touch Attachment Mode Switch

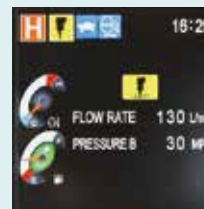
A simple flick of a switch converts the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.



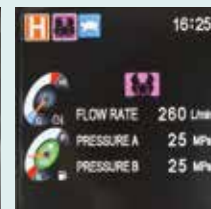
Fuel consumption



Maintenance

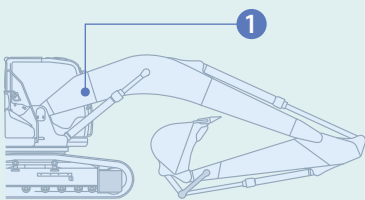


Breaker mode



Nibbler mode

Increased Power, with Enhanced Durability to Maintain the Machine's Value



Built to Operate in Tough Working Environments

Redesigned boom offers excellent durability during demanding work conditions to reliably handle work volume.

1 Newly designed boom

Increased boom foot cross section for improve durability against tensile stress

NEW

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.

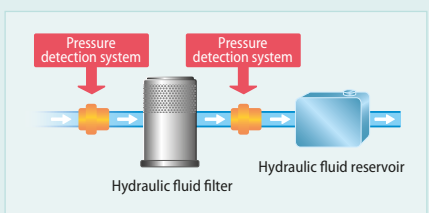
Hydraulic Fluid Filter NEW

Recognized as the best in the industry, our 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.




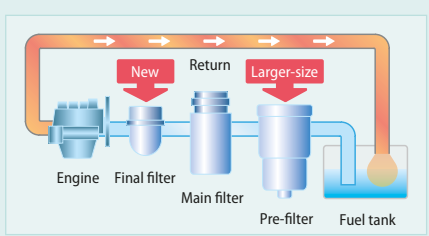
Metal mesh cover air cleaner NEW

Metal mesh cover ensures strength and durability.



Fuel Filter

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



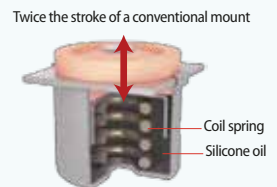
The high level of air-tightness keeps dust out of the cab.

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.



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



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



Spacious storage tray



Large cup holder

Safety

ROPS Cab

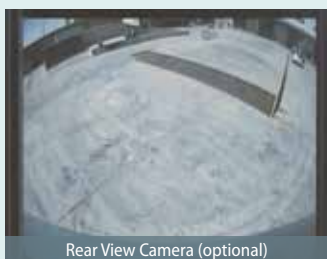
ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.



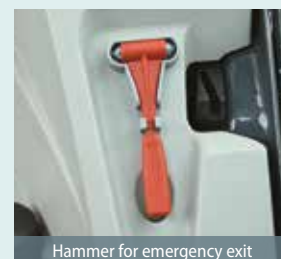
Expanded Field of View for Greater Safety



Rearview mirrors left and right



Rear View Camera (optional)



Hammer for emergency exit

Greater safety assured by rearview mirrors on left and right.

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



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



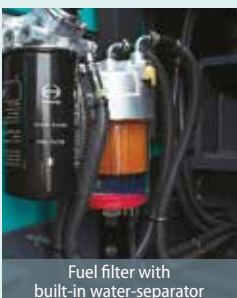
Step/Hand rail



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



Right side



Engine oil filter



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

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

Easy Cleaning



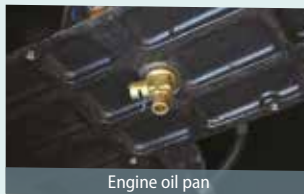
Crawler frame

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:
2,000
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.



More Efficient Maintenance Inside the Cab

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



Air conditioner filters

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).

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



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.



Engine

Model	HINO J08E
Type	Direct injection, water-cooled, 4-cycle, 6-cylinder diesel engine with intercooler turbo-charger
No. of cylinders	6
Bore and stroke	112 mm x 130 mm
Displacement	7.684 L
Rated power output	173 kW/2,100 min ⁻¹ (ISO 9249)
	185 kW/2,100 min ⁻¹ (ISO 14396)
Max. torque	966 N·m/1,600 min ⁻¹ (ISO 9249)
	998 N·m/1,600 min ⁻¹ (ISO 14396)



Hydraulic System

Pump	
Type	Two variable displacement pumps + 1 gear pump
Max. discharge flow	2 x 245 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	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	10.3 min ⁻¹ {rpm}
Tail swing radius	3,300 mm
Min. front swing radius	4,420 mm



Attachments

Backhoe bucket and arm combination

Type	Backhoe bucket					
	Normal digging					
Bucket capacity	Heaped (ISO7451)	m ³	1.2	1.2HD	1.40	1.4HD
	Struck (ISO7451)	m ³	0.84	0.88	0.96	1
Opening width	With side cutters	mm	1,490	1,300	1,680	1,460
	Without side cutters	mm	1,400	1,180	1,580	1,340
No. of teeth			5	4	5	5
Bucket weight		kg	1,050	1,270	1,140	1,410
Combinations	2.40 m short HD arm		○	○	○	◎
	3.10 m standard HD arm		○	○	○	◎

◎ Standard ○ Recommended



Travel System

Travel motors	2 x axial-piston, two-step motors
Travel brakes	Hydraulic
Parking brakes	Oil disc brake per motor
Travel shoes	50 each side
Travel speed	5.2/3.1 km/h
Drawbar pulling force	280 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



Boom, Arm & Bucket

Boom cylinders	140 mm x 1,305 mm
Arm cylinder	150 mm x 1,675 mm
Bucket cylinder	130 mm x 1,208 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	7.0 L
Hydraulic oil tank	245 L tank oil level
	410 L hydraulic system



Working Ranges

Unit: m

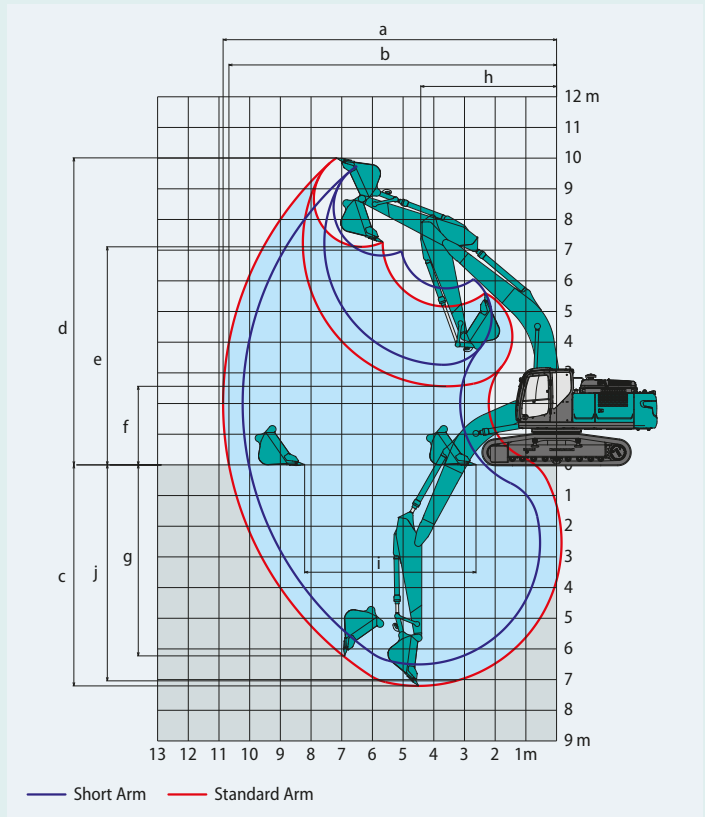
Boom		6.20 m	
Range		Short 2.4 m	Standard 3.1 m
a-	Max. digging reach	10.23	10.87
b-	Max. digging reach at ground level	10.03	10.68
c-	Max. digging depth	6.50	7.20
d-	Max. digging height	9.74	10.01
e-	Max. dumping clearance	6.83	7.11
f-	Min. dumping clearance	3.26	2.56
g-	Max. vertical wall digging depth	5.65	6.23
h-	Min. swing radius	4.4	4.42
i-	Horizontal digging stroke at ground level	4.0	5.58
j-	Digging depth for 2.4 m (8') flat bottom	6.31	7.04
Bucket capacity ISO heaped m ³		1.4	1.4

Digging Force (ISO 6015)

Unit: kN

Arm length	Short 2.4 m	Standard 3.1 m
Bucket digging force	188 208*	188 208*
Arm crowding force	158 174*	126 139*

*Power Boost engaged



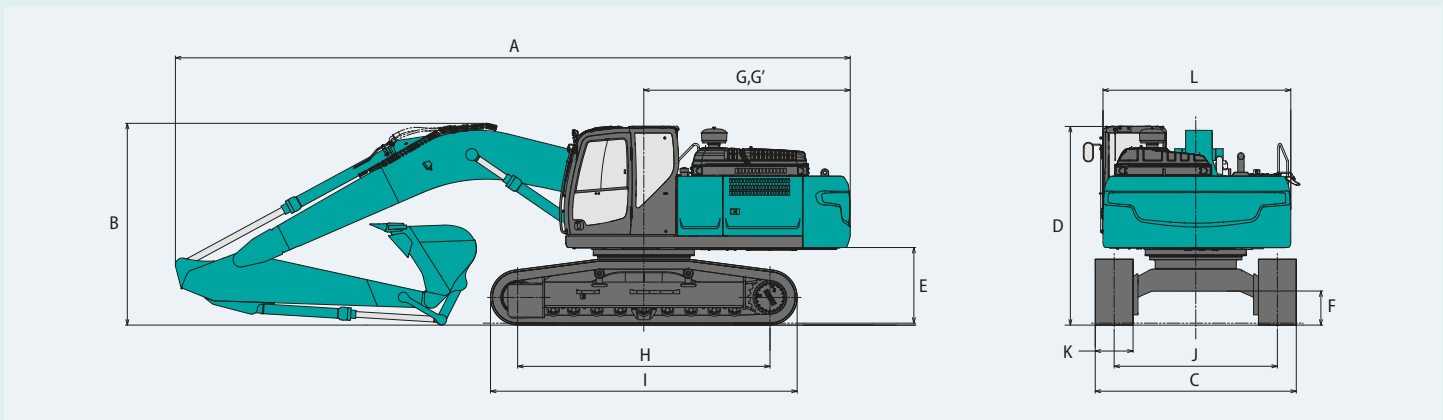
Dimensions

Arm length		Short 2.4 m	Standard 3.1 m
A	Overall length	10,830	10,710
B	Overall height (to top of boom)	3,460	3,200
C	Overall width	3,190	
D	Overall height (to top of cab)	3,160	
E	Ground clearance of rear end*	1,200	
F	Ground clearance*	510	

Unit: mm

G	Tail swing radius	3,300
G'	Distance from center of swing to rear end	3,270
H	Tumbler distance	4,000
I	Overall length of crawler	4,870
J	Track gauge	2,590
K	Shoe width	600
L	Overall width of upperstructure	2,980

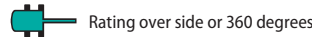
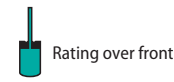
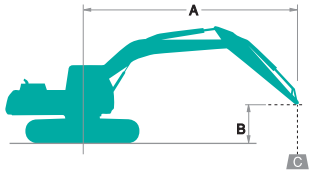
*Without including height of shoe



Operating Weight & Ground Pressure

In standard trim, with Standard HD boom (6.20m), Standard HD arm (3.10m), and 1.4 m³ ISO heaped bucket.

Type	Triple grouser shoes (even height)			
Shoe width	mm	600	700	800
Overall width	mm	3,190	3,290	3,390
Ground pressure	kPa (kgf/cm ²)	58 (0.59)	51 (0.52)	45 (0.46)
Operating weight	kg	30,600	31,200	31,700



A: Reach from swing centerline to arm top
 B: Arm top height above/below ground
 C: Lifting capacities in Kilograms
 Bucket: Without bucket
 Relief valve setting: 34.3 MPa (350 kgf/cm²)

SK300LC		Boom: 6.2 m		HD Arm: 3.1 m		Bucket: without		Shoe: 600 mm				At Max. Reach		Radius		
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				
B																
7.5 m	kg													*3,830	*3,830	7.45 m
6.0 m	kg									*5,590	*5,590			*3,630	*3,630	8.37 m
4.5 m	kg							*6,640	*6,640	*6,020	5,730			*3,590	*3,590	8.95 m
3.0 m	kg					*10,790	*10,790	*7,950	7,610	*6,700	5,480	*5,650	4,140	*3,680	*3,680	9.24 m
1.5 m	kg					*13,110	10,700	*9,220	7,170	*7,400	5,250	6,420	4,030	*3,890	3,850	9.28 m
G.L.	kg					*14,220	10,340	*10,110	6,890	*7,960	5,080	*5,090	3,960	*4,280	3,920	9.06 m
-1.5 m	kg			*10,530	*10,530	*14,370	10,270	*10,480	6,770	8,160	5,010			*4,960	4,210	8.57 m
-3.0 m	kg	*12,310	*12,310	*16,580	*16,580	*13,750	10,380	*10,220	6,810	*7,850	5,070			*6,240	4,860	7.76 m
-4.5 m	kg			*17,020	*17,020	*12,080	10,690	*8,870	7,050					*7,840	6,370	6.50 m

SK300LC		Boom: 6.2 m		HD Arm: 2.4 m		Bucket: without		Shoe: 600 mm				At Max. Reach		Radius		
A		3.0 m		4.5 m		6.0 m		7.5 m								
B																
7.5 m	kg							*6,270	*6,270					*6,500	*6,500	6.63 m
6.0 m	kg							*6,540	*6,540	*6,430	5,800			*6,490	5,590	7.66 m
4.5 m	kg					*9,420	*9,420	*7,480	*7,480	*6,690	5,680			*6,470	4,830	8.28 m
3.0 m	kg							*8,720	7,510	*7,270	5,470			*6,630	4,450	8.60 m
1.5 m	kg							*9,830	7,140	*7,870	5,270			6,870	4,330	8.64 m
G.L.	kg			*14,560	10,400			*10,490	6,930	*8,280	5,150			7,080	4,440	8.41 m
-1.5 m	kg	*10,250	*10,250	*14,250	10,450			*10,590	6,890	*8,270	5,140			*7,760	4,840	7.88 m
-3.0 m	kg	*18,080	*18,080	*13,200	10,640			*9,930	7,010					*8,140	5,780	6.98 m
-4.5 m	kg			*10,750	*10,750									*8,350	8,250	5.53 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.

STANDARD EQUIPMENT

- | | | | |
|---|--|---|---|
| <p>ENGINE</p> <ul style="list-style-type: none"> ■ HINO J08E diesel engine with turbocharger intercooler ■ Automatic engine deceleration ■ Auto Idle Stop (AIS) ■ Batteries (2 x 12V - 96Ah) ■ Starting motor (24V - 5 kW), 50 amp alternator ■ Automatic engine shut-down for low engine oil pressure ■ Engine oil pan drain cock ■ Double element air cleaner <p>CONTROL</p> <ul style="list-style-type: none"> ■ Working mode selector (H-mode, S-mode and ECO-mode) ■ Power Boost | <p>SWING SYSTEM & TRAVEL SYSTEM</p> <ul style="list-style-type: none"> ■ 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 <p>HYDRAULIC</p> <ul style="list-style-type: none"> ■ Arm interflow system ■ Auto warm up system ■ Boom regeneration system ■ Aluminum hydraulic oil cooler ■ Hydraulic fluid filter clog detector ■ Standard piping (Less N & B piping) <p>MIRRORS, LIGHTS & CAMERA</p> <ul style="list-style-type: none"> ■ Two rear view mirrors ■ Three front working lights (Two for boom, one for storage box) | <p>CAB & CONTROL</p> <ul style="list-style-type: none"> ■ 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 | <ul style="list-style-type: none"> ■ Emergency escape hammer ■ Suspension seat ■ Remote machine monitoring system KOMEXS |
|---|--|---|---|

OPTIONAL EQUIPMENT

- | | | | | |
|--|--|--|--|---|
| <ul style="list-style-type: none"> ■ Short HD arm (2.4m) ■ Additional Track Guide ■ Refueling pump ■ Front guard ■ Rear view camera | <ul style="list-style-type: none"> ■ Lower frame guard ■ Air suspension seat ■ E & N & B piping (foot control) ■ N & B piping (foot control) | <ul style="list-style-type: none"> ■ N & B piping (foot control) + Boom & Arm Safety + Quick hitch piping ■ 1.2m³ bucket General Duty ■ 1.2m³ bucket Heavy Duty | <ul style="list-style-type: none"> ■ 1.4m³ bucket General Duty ■ 1.4m³ bucket Heavy Duty ■ 700mm steel shoe ■ 800mm steel shoe ■ Cab top work lights (two lights) | <ul style="list-style-type: none"> ■ Travel alarm ■ Yellow Rotating Warning Light |
|--|--|--|--|---|

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: