SK 300 LC



Power Meets Efficiency





Evolution Continues, with Improved Fuel Efficiency.

Hydraulic System: Revolutionary Technology Saves Fuel

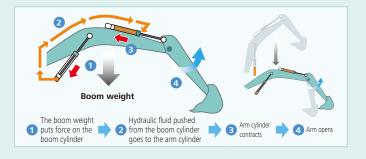
Arm Interflow System Web

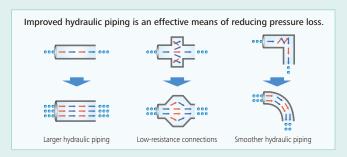


When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.

Hydraulic circuit reduces energy loss

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





In Pursuit of Improved Fuel Efficiency

ECO-mode: engineered for economy

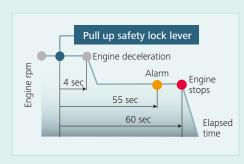
Kobelco's ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency. Just press a button to choose the operation mode best suited to the task at hand and the working conditions.

Optimal operation with three modes









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.



Engine Meets Stage V Standards

Reduces Fuel Consumption and Minimizes Exhaust Emissions

Hino engines are renowned for fuel efficiency and environmental performance, and Kobelco has tuned these powerplants especially for construction machinery.

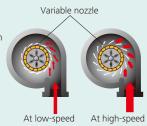
The pressure within the common rail fuel injection system, the VG turbo, and the exhaust gas after-treatment system reduce exhaust PM*3 while the large-capacity EGR cooler sharply reduces the formation of NOx gases.



*3 PM: Particulate Matter

VG Turbo Reduces PM

The variable-geometry turbocharger adjusts air intake to maximize combustion efficiency. At low engine speeds the nozzles are closed, the turbo speed increased and air intake is boosted. This helps lower fuel consumption.

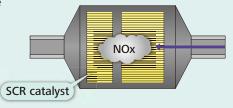


SCR System with Urea 🚾



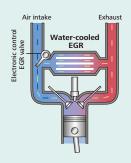
The engine exhaust system has an SCR system that converts NOx emissions into harmless nitrogen and water. Combining this with a post-exhaust gas treatment system that captures

and disposes of PM, the SK300LC has a much cleaner exhaust that meets Stage V exhaust emission standards



EGR Cooler Reduces NOx

Cooled exhaust gases from the EGR cooler are mixed with fresh air in the intake. The recirculated air lowers the combustion temperature which reduces NOx.

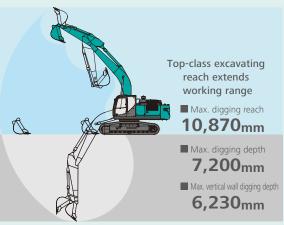


More Power and Higher Efficiency.

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.



Get More Done Faster with Superior Operability



Values are for HD arm (3.10m)

Complying with Transport Regulations



Piping for Quick Hitch



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

A Light Touch on the Lever Means Smoother, Less Tiring Work VEW



It takes 38% less effort to work the operation lever, which reduces fatigue over long working hours or continued operations (Compared to SK300LC-8).

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: 262kN

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.

- Analog gauge provides an intuitive reading of fuel level and engine water temperature
- @ Green indicator light shows low fuel consumption during operation
- B PM accumulation display (left)/Urea level gauge (right)
- 4 Fuel consumption/Switch indicator for rear camera images
- 5 Digging mode switch
- 6 Monitor display switch

One-Touch Attachment **Mode Switch**

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

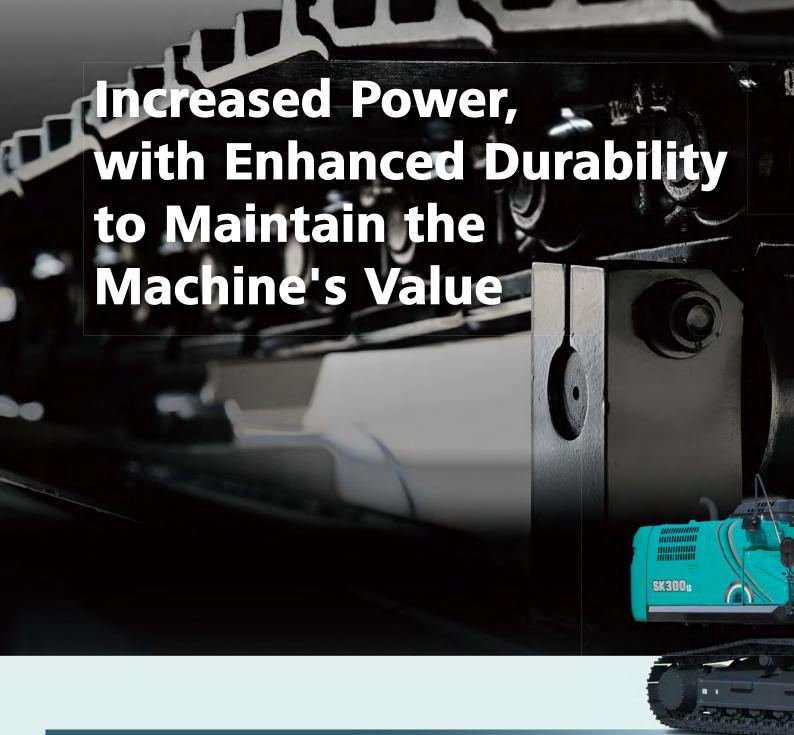












Improved Filtration System Reliability

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 Web

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

Pressure sensors at the inlet and outlet of the hydraulic fluid filter monitor differences in pressure to determine the degree of clogging If the difference in pressure exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be removed from the filter before it reaches the hydraulic fluid reservoir.





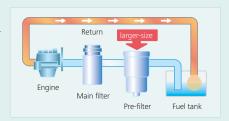
Double-Element Air Cleaner

The large-capacity element features a double-filter structure that keeps the engine running clean even in industrial environments.



Fuel Filter WEW

The pre-filter, with built-in water separator maximizes filtering performance.





Built to Operate in Tough Working Environments

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



Comfortable Cab Is Now Safer than Ever.



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



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







Interior Equipment Adds to Comfort and Convenience











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.

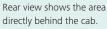
Expanded Field of View for Greater Safety













Right Side Camera Available as an Option

The standard rear-view camera and optional right side camera help the operator maintain an enhanced margin of safety all around the machine.

GEOSCAN

Excavator Remote Monitoring System



Direct Access to Operational Status

Location Data

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







Latest location Location records

Operating Hours

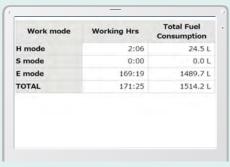
- A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.
- Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.



Daily report

Fuel Consumption Data

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



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-	YH07-09721	77411-	424	
3/SK140SRL	0.38/0.35	734 Hr	434	
SK135SRLC-	YH07-09789	73 Hr	429	
3/SK140SRL	0.38/0.35		429	
SK210LC-9	YQ13-10454	00011	00011-	58
SK21ULC-9	0.8/0.7	960 Hr	50	
SK210LC-9	YQ13-10481	549 Hr	498	
SKZIULC-9	0.8/0.7	349 HI	490	
SK75SR-	YT08-30374			

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

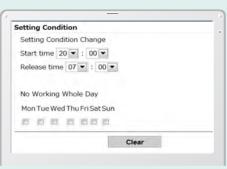
•Operational data downloaded onto a computer helps in formulating daily and monthly reports.

Alarm messages can be received on mobile device.

Security System

Engine Start Alarm

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



Engine start alarm outside prescribed work time

Area Alarm

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



Alarm for outside of reset area



Easy, On-the-Spot Maintenance

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.









Positioned where the step opens

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

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









Laid out for easy access to radiator and cooling system elements

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

Efficient Maintenance Keeps the Machine in Peak Operating Condition.



More Efficient Maintenance Inside the Cab



More finely differentiated fuses make it easier to locate malfunctions.



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



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

Easy Cleaning



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.



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.



Specifications



Engine

Model	J08EVV-KSDP	
Туре	Water-cooled, 4cycle 6cylinder direct injection type diesel engine with intercooler turbo-charger (complies with Stage V	
No. of cylinders	6	
Bore and stroke	112 mm x 130 mm	
Displacement	7.684L	
Pated nower output	188 kW/2,100 min ⁻¹ (ISO 9249)	
Rated power output	200 kW/2,100 min ⁻¹ (ISO 14396)	
May torque	988 N·m/1,600 min ⁻¹ (ISO 9249)	
Max. torque	1,017 N·m/1,600 min ⁻¹ (ISO 14396)	



Hydraulic System

Pump		
Туре	Two variable displacement pumps +	
туре	One gear pump	
Max. discharge flow	2 x 245 L/min, 1 x 21 L/min	
iviax. discharge now	Extra gear pump 1 x 43 L/min	
Relief valve setting		
Boom, arm and bucket	34.3Mpa	
Power Boost	37.8Mpa	
Travel circuit	34.3Mpa	
Swing circuit	29.0Mpa	
Control circuit	5.0Mpa	
Pilot control pump	Gear type	
Main control valve 8-spool		
Oil cooler	Air cooled type	



Swing System

Swing Motor	Axial piston motor
Parking bake	Oil disc brake, hydraulic operated
raiking bake	automatically
Swing Speed 10.3min ⁻¹	
Swing Torque	98.6kN⋅m
Tail swing radius	3,300mm
Min front swing radius	4,430mm



Travel System

Travel Motors	2 x axial-piston, two-step motors
Travel brakes Hydraulic brake per motor	
Parking bake	Oil disc brake per motors
Travel shoes	50 each side
Travel Speed (high/low) 5.2/3.1 km/h	
Drawbar Pulling Force	262kN
Gradeability	70% (35deg)



Cab & Control

All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil and equipped with a heavy, insulated floor mat.

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	140mm×1,305mm
Arm cylinder	150mm×1,675mm
Bucket cylinder	130mm×1,208mm



Refilling Capacities & Lubrications

Fuel tank	503L
Cooling system	35L
Engine oil	28.5L
Travel reduction gear	2×7.5L
Swing reduction gear	7.4L
Hydraulic Oil Tank (tank oil level)	245L
Hydraulic Oil Tank (system)	410L
DEF/Urea tank	83L



Attachments

Backhoe bucket and combination

Туре		Backhoe bucket		
		Normal digging		
Pucket capacity	Heaped (ISO7451) m³	1.00	1.20	1.40
Bucket capacity	Struck (ISO7451) m³	0.74	0.84	0.96
0	With side cutters mm	1,350	1,490	1,680
Opening width	Without side cutters mm	1,250	1,400	1,580
No. of teeth		4	5	5
Bucket weight kg		970	1,050	1,140
	2.40 m short arm	\circ	0	0
Combinations	3.10 m standard arm	0	©	0
	4.00m long arm	0	×	X

 \bigcirc Standard \bigcirc Recommend \triangle Loading only \times Not recommended





Working Ranges

Unit: m

Boom	6.2 m		
Range Arm	Short 2.4 m	Standard 3.1 m	Long 4.0 m
a-Max. digging reach	10.23	10.87	11.72
b-Max. digging reach at ground level	10.03	10.68	11.54
c- Max. digging depth	6.50	7.20	8.10
d-Max. digging height	9.74	10.01	10.43
e-Max. dumping clearance	6.83	7.11	7.53
f- Min. dumping clearance	3.26	2.56	1.66
g-Max. vertical wall digging depth	5.65	6.23	7.08
h-Min. swing radius	4.40	4.43	4.55
i- Horizontal digging stroke at ground level	4.00	5.58	7.10
j- Digging depth for 2.4 m (8') flat bottom	6.31	7.04	7.97
Bucket capacity ISO heaped m ³	1.4	1.2	0.8

Digging Force (ISO 6015)

Unit: kN

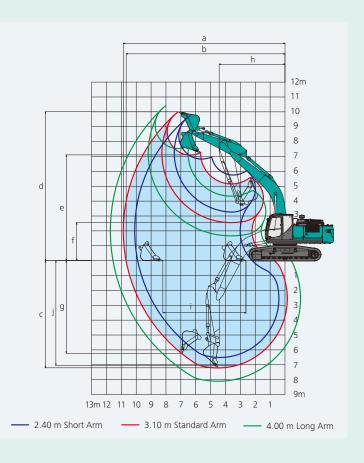
Arm length	Short 2.4 m	Standard 3.1 m	Long 4.0 m
Bucket digging force	188/208*	188/208*	188/208*
Arm crowding force	158/174*	126/139*	105/115*

*Power Boost engaged.



Dimensions

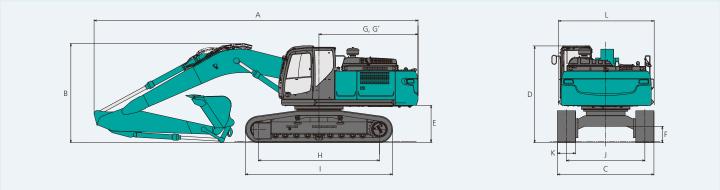
Ar	m length	Short 2.4 m	Standard 3.1 m	Long 4.0 m
Α	Overall length	10,830	10,710	10,770
В	Overall height (to top of boom)	3,500	3,270	3,480
C	Overall width of crawler	3,190		
D	Overall height (to top of cab)	3,200		
Ε	Ground clearance of rear end*	1,200*		
F	Ground clearance*	510*		
G	Tail swing radius	3,300		



		Offic. Hilli
G'	Distance from center of swing to rear end	3,270
Н	Tumbler distance	4,000
1	Overall length of crawler	4,870
J	Track gauge	2,590
K	Shoe width	600
L	Overall width of upperstructure	3,120

*Marked dimensions don't include height of shoe lug

*Without including height of shoe



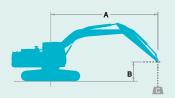
Operating Weight & Ground Pressure

In standard trim, with standard boom, 3.10 m arm, and 1.2 m³ ISO heaped bucket

Туре	Triple grouser shoes (even height)						
Shoe width mm	600	700	800				
Overall width mm	3,190	3,290	3,390				
Ground pressure kPa (kgf/cm²)	59 (0.59)	52 (0.52)	46 (0.46)				
Operating weight kg	31,000	31,700	32,100				

(): Additional weight.

Lifting Capacities





A: Reach from swing centerline to arm top B: Arm top height above/below ground C: Lifting capacities in Kilograms Bucket: Without bucket Relief valve setting: 37.8 MPa

SK300LC	SK300LC Boom: 6.20 m Arm: 3.10 m, Bucket: without Shoe: 600 mm (Heavy Lift)															
А		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
В				4		1		1		4		4		1		Radius
7.5m	kg													*4,270	*4,270	7.45m
6.0m	kg									*6,320	6,020			*4,050	*4,050	8.37m
4.5m	kg							*7,490	*7,490	*6,810	5,840			*4,010	*4,010	8.95m
3.0m	kg					*12,160	11,760	*8,980	7,760	*7,570	5,600	*6,280	4,230	*4,110	4,040	9.24m
1.5m	kg					*14,770	10,910	*10,410	7,310	*8,370	5,360	6,550	4,120	*4,350	3,930	9.28m
G.L.	kg					*16,020	10,540	*11,410	7,030	8,410	5,190	*5,680	4,040	*4,780	4,000	9.06m
-1.5m	kg			*11,640	*11,640	*16,200	10,470	11,610	6,910	8,320	5,110			*5,530	4,300	8.57m
-3.0m	kg	*13,600	*13,600	*18,290	*18,290	*15,500	10,590	*11,540	6,950	8,390	5,180			*6,950	4,970	7.76m
-4.5m	kg			*19,200	*19,200	*13,640	10,890	*10,030	7,190					*8,870	6,490	6.50m

SK300I	LC	Boom	Boom: 6.20 m Arm: 4.00 m, Bucket: without Shoe: 600 mm (Heavy Lift)													
А		1.5	1.5 m 3.		0 m 4.!		m	6.0	0 m 7.5		5 m	9.0	9.0 m		At Max. Reach	
В		<u> </u>		1		1		1				4		1		Radius
9.0 m	kg													*3,330	*3,330	7.26m
7.5 m	kg													*3,010	*3,010	8.49m
6.0 m	kg									*5,200	*5,200	*4,280	*4,280	*2,870	*2,870	9.31m
4.5 m	kg									*5,780	*5,780	*5,660	4,320	*2,840	*2,840	9.83m
3.0 m	kg			*16,330	*16,330	*9,890	*9,890	*7,670	*7,670	*6,620	5,580	*6,090	4,170	*2,890	*2,890	10.10m
1.5 m	kg					*12,920	11,060	*9,270	7,300	*7,540	5,280	6,450	4,010	*3,040	*3,040	10.13m
G.L.	kg			*7,330	*7,330	*14,900	10,390	*10,550	6,900	8,270	5,040	6,310	3,870	*3,300	*3,300	9.93m
-1.5 m	kg	*7,060	*7,060	*10,600	*10,600	*15,760	10,130	*11,320	6,670	8,110	4,890	6,230	3,800	*3,740	3,540	9.49m
-3.0 m	kg	*10,760	*10,760	*14,990	*14,990	*15,690	10,120	11,310	6,620	8,080	4,860			*4,490	3,980	8.77m
-4.5 m	kg	*15,180	*15,180	*21,180	20,870	*14,650	10,330	*10,830	6,740	*8,150	5,010			*6,010	4,870	7.68m
-6.0 m	kg			*17,250	*17,250	*11,980	10,790	*8,330	7,150					*8,270	7,120	6.02m

SK300LC	m, Bucke	: without Shoe: 600 mm (Heavy Lift)										
A		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		
В				4		<u> </u>				1		Radius
7.5 m	kg					*7,060	*7,060			*7,330	7,290	6.63 m
6.0 m	kg					*7,370	*7,370	*7,270	5,930	*7,240	5,710	7.66 m
4.5 m	kg			*10,620	*10,620	*8,450	8,130	*7,560	5,810	*7,150	4,940	8.28 m
3.0 m	kg					*9,860	7,680	*8,220	5,600	7,170	4,560	8.60 m
1.5 m	kg					*11,110	7,310	8,630	5,400	7,020	4,440	8.64 m
G.L.	kg			*16,430	10,660	11,810	7,100	8,490	5,280	7,240	4,550	8.41 m
-1.5 m	kg	*11,310	*11,310	*16,080	10,700	11,760	7,060	8,480	5,270	7,930	4,960	7.88 m
-3.0 m	kg	*20,420	*20,420	*14,910	10,880	*11,230	7,180			*9,210	5,920	6.98 m
-4.5 m	kg			*12,180	11,300					*9,470	8,430	5.53 m

- 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.

 Annut or defined as Lift point.
- 3. Arm top defined as lift point.

- 4. 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.

 5. 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.

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

STANDARD EQUIPMENT

ENGINE

- Engine, HINO J08EVV-KSDP, diesel engine with turbocharger and intercooler, Stage V 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 for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner

CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- Power Boost
- Heavy lift
- Object Handling Kit (boom and arm safety valve + hook)
- Extra N&B piping (proportional hand controlled)

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake

HYDRAULIC

- Arm regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Hydraulic fluid filter clog detector
- Hydraulic pressure adjustment function for N&B piping
- Quick hitch piping

MIRRORS, LIGHTS & CAMERA

- Three rearview mirrors
- Three front working lights (two for boom, one for right strage box)
- Rear view camera

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Automatic air conditioner
- Emergency escape hammer
- Suspension seat
- Radio, AM/FM stereo with speaker
- USB pin
- Top guard (ISO10262: 1998)
- Geoscan
- Tow eyes
- Travel alarm
- Lower under cover

OPTIONAL EQUIPMENT

- Various optional arms
- Wide range of shoes
- Additional track guide
- Two cab lights
- Rain visor (may interfere with bucket action)
- Cab guard

 ${\bf Note: Standard\ and\ optional\ equipment\ may\ vary.\ Consult\ your\ KOBELCO\ dealer\ for\ specifics.}$

- Bigger capacity P4 pump and steel PTO housing
- Additional weight (600kg)
- Refueling pump
- Air suspention seat
- Right side camera



Note: This catalog may contain attachments and optional equipment that are not available in your area. And it may contain photographs of machines
with specifications that differ from those of machines sold in your areas. Please consult your nearest KOBELCO distributor for those items you require.
Specialist equipment is needed to use this machine in demolition work. Before using it please contact your KOBELCO dealer.
Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice.
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