SK380HDLC

STANDARD EQUIPMENT

Engine, HINO J08E-UN, diesel engine with turbocharger and intercooler

Automatic engine deceleration

Auto Idle Stop (AIS)

Automatic engine shut-down for low engine oil pressure Engine oil pan drain valve

Double element air cleaner

Pre-air cleaner

Working mode selector (H-mode and S-mode)

Power Boost

Swing rebound prevention system

Straight propel system Two-speed travel with automatic shift down

Grease-type track adjusters

Automatic swing brake

Arm regeneration system

Aluminum hydraulic oil cooler

N&B and N&B piping

Two rearview mirrors

Four front working lights

Two control levers, pilot-operated

Tow eyes

Horn, electric

Integrated left-right slide-type control box

Cab, all-weather sound suppressed type

Cab light (interior)

Coat hook Luggage tray

Large cup holder

Detachable two-piece floor mat

7-way adjustable suspension seat

Retractable seatbelt

Headrest

Intermittent windshield wiper with double-spray washer

Tinted safety glass

Pull-up type front window and removable lower front window

Easy-to-read multi-display monitor

Automatic air conditioner Emergency escape hammer

OPTIONAL EQUIPMENT

Wide range of buckets

Travel alarm

Yellow rotating light

Refueling pump

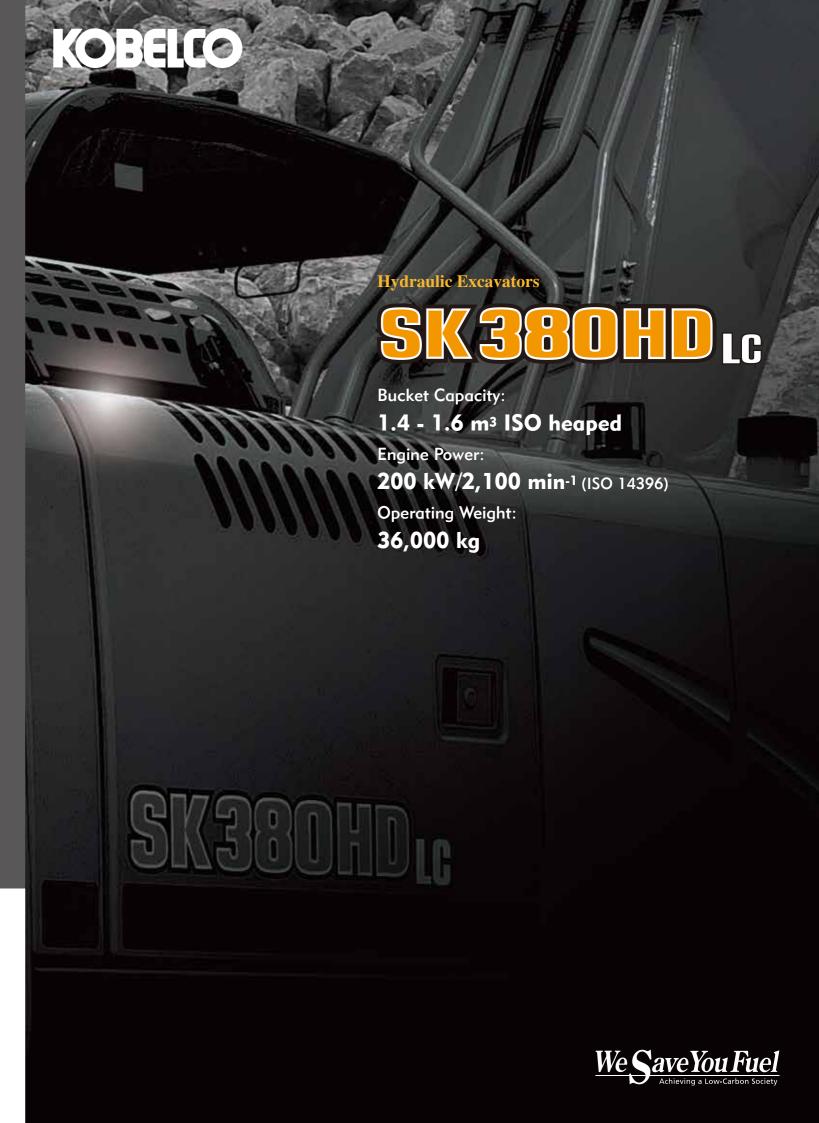
Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

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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SK380HD_{LC} **Reliability and Durability**

Sturdy Construction & Built-in Durability

Stable Attachment Strength

Forged and cast components are used throughout. The arm tip's cross-sectional coefficient is 15 % higher than previous models, giving the arm the same strength as the 3-faced reinforced arm that was offered only as an option before. The strength of the boom foot has also been increased by 18 %.

- New operator's seat covered in durable material
- High-quality urethane paint
- Easily repaired bolted hand rails



The pre-air cleaner prolongs a replace-

can continue temporarily until a service person arrives to repair

Emergency Acceleration (Dial) Permits Continued Operation in the Unlikely Event of Malfunction

Emergency acceleration

the primary system.

Newly designed MCU



Conventional

gives better protection from water and

If unexpected trouble is experienced

with the ITCS mechatronic control

system, the machine can still be

operated using the emergency acceleration system. Digging modes are also automatically relayed to an emergency system so that digging

•Integration in base plate boosts assembly quality

•Vertical alignment and sealed cover

• Reliable fixture to base plate

Countermeasures Against Electrical System Failure

All elements of the electrical system, including controller, have been designed for enhanced reliability.











SK380HDLC **Performance**

Efficient Performance

Amazing Productivity with 18 % Saving in Fuel Consumption and Top-Class Cost Performance



Fuel Consumption*

improvement in fuel efficiency when performing more work volume (S-Mode)



Work Volume*

7% increase in work volume using the same amount of fuel. (H-Mode)

"Top-Class" Powerful Digging

Max. arm crowding force:	165 _{kN}	
Max. arm crowding force with power boost:	181kN	
Max. bucket digging force:	222kN	
Max. bucket digging force with power boost:	244 _{kN}	

Powerful Travel

Travel torque: increased by 130	%
Drawbar pulling force: 32	2kN

Greater Swing Power, Shorter Cycle Times

Swing torque: increased by	7 %	
Swing speed:	10.0min-1	

Significant Extension of Continuous Working Hours

The combination of large-capacity fuel tank and excellent efficiency delivers an impressive 22 % increase in continuous operation hours.**

Fuel tank: 22%	1
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Light Lever Operation



It takes 10% less effort to move the control evers, so that operators can work longer hours with less fatigue.

NEXT-3E Technology

New Hydraulic System

Rigorous inspections for pressure loss are performed on all components of the hydraulic piping, from the spool of the control valve to the connectors. This regimen, combined with the use of a new, high-efficiency pump, cuts energy loss to a minimum.

Reducing Pressure Loss Increased piping Using low-pressure 000 000

NEXT-3E Technology

Next-Generation Electronic Engine Control

The high-pressure, common-rail fuel-injection engine features adjustable control to maximize fuel efficiency and provide powerful medium/low-speed torque. The result is a highly fuel-efficient engine.

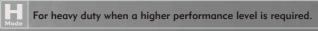


NEXT-3E Technology

Total Tuning Through Advanced ITCS Control

The next-generation engine control is governed by a new version of ITCS, which responds quickly to sudden changes in hydraulic load to ensure that the engine runs as efficiently as possible with a minimum of wasted output.

ITCS (Intelligent Total Control System) is an advanced, computerized system that provides comprehensive control of all machine functions.

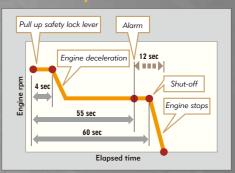


For normal operations with lower fuel consumption.

N&B (crusher and breaker)

The operator selects the desired mode from inside the cab, and the selector valve automatically configures the machine accordingly.

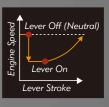






This function saves fuel and cuts emissions by shutting down the engine automatically when the safety lock lever is pulled up. It also stops the hourmeter, which helps to retain the machine's asset value.

Engine speed is automatically reduced when the control lever is placed in neutral, effectively saving fuel and reducing noise and exhaust emissions. The engine proportionally comes to desire speed when the lever is moved out of neutral.



*The value shows results from actual measurements taken by KOBELCO when compared with previous KOBELCO models.

**The value shows results from actual measurements taken by KOBELCO for

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continuous operation in S Mode, compared with previous models.
Results vary depending on the method of operation and load conditions

SK380HDLC Maintenance

Easy Maintenance

Comfortable "On the Ground" Maintenance

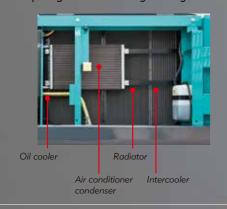


The machine layout was designed with easy inspection and maintenance in

Access Through the Left Side Cover

Parallel Cooling Units Are Easy to Clean

Large-capacity radiator and oil cooler are aligned side by side, with intercooler positioned in front. This more effective layout gives outstanding cooling results.



Quick Oil Drain Valves for Quick Maintenance



 A quick drain valve, which requires no tools, is provided as standard equipment.





2 To facilitate fuel tank cleaning, the fuel drain valve was made larger and fitted with a flange on the bottom.



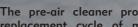






checked while standing







Access Through the Right Side Cover

The fuel filter with built-in water separator functions in two ways by removing large contaminants and separating out



Pre-fuel filter



(with built-in water separators)

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability. With a replacement cycle of 1,000 hours and a construction that allows replacement of the filter element only, it's both highly effective and highly economical.





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

Air cleaner (double element)



- •Displays only the maintenance information that's needed, when it's needed.
 •Self-diagnostic function that provides
- early-warning detection and display of electrical system malfunctions.
- Record previous breakdowns, including irregular

oice of 16 Languages for Monitor Display



With messages including those requiring urgent action displayed in the local language, users in all parts of the world can work with greater peace of

SK380HD_{LC} **Comfort and Safety**

Comfort and Safety

Spacious, Comfortable Cab

Designed for safety, the cab meets ISO standards, and also offers a spacious interior and plenty of foot room, with levers and other controls ideally positioned for easy operation.

- •A long wiper covers a wide area for a broad view in bad weather.
- Back mirrors provide a safe view of the rear.
 Reinforced green glass windows meet European standards

 Back mirrors provide a safe view of the rear.

Vide-Access Cab Ensures Smooth Entry and Exit



The left control box lifts up with the safety lock lever to add 10° to the cab entry angle for easy entrance and exit.



Plenty of Foot Room

The rigid cab construction and liquid-filled viscous cab mounts minimize cab vibration. In addition, the use of new lower rollers on the crawlers cuts travel vibration in half compared with previous models.

In-Cab Noise is Reduced by 3dB Compared with

Newly Designed Information Display Prioritizes



The analog gauge provides information that's easy to read regardless of the operating environment. The information display screen has been enlarged, and a visor is attached to further enhance visibility.

Comfortable, double-sliding suspension seat, fitted as standard, creates a higher grade working environment and reduces fatigue.









One-touch lock release closing the front window







• New interior design and materials create an



Low Noise Level and Mild Sound Quality

The electronically controlled common-rail engine has a unique fuel injection system that runs quietly.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

Measures have been taken to ensure that the SK machines do not cause electro-magnetic interference.

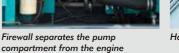
Bracket for Attaching a Head Guard Provided as **Standard Equipment**

A bracket is provided as standard equipment that allows the optional head guard to be simply bolted on.

Automatic Engine Shut-Down for Low Engine Oil

Safety Features That Take Various Scenarios into Consideration







- •Thermal guard prevents contact with hot components during engine inspections • Hand rails meet European standards
- Retractable seatbelt requires no manual adjustment





Model	HINO JO8E-UN
Type:	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders:	6
Bore and stroke:	112 mm × 130 mm
Displacement:	7.684 L
Rated power output:	188 kW /2,100 min-1 (ISO9249)
nated power output.	200 kW /2,100 min-1 (ISO14396)
Max. torque:	969 N·m/1,600 min ⁻¹ (ISO9249)
ivian. torquo.	998 N·m/1,600 min ⁻¹ (ISO14396)



Pump	
Туре:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 X 294 L/min, 1 X 20 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 motor:	Axial-piston motor
Brake:	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake:	Hydraulic disc brake
Swing speed:	10.0 min ⁻¹ {rpm}
Tail swing radius:	3,650 mm
Min. front swing radius:	4,370 mm

Travel System

Travel motors:	2 × axial-piston, two-step motors
Travel brakes:	Hydraulic brake per motor
Parking brakes:	Oil disc brake per motor
Travel shoes:	48 each side
Travel speed:	5.6/3.3 km/h
Drawbar pulling force:	322 kN (ISO7464)
Gradeability:	70 % {35°}
Ground clearance:	500 mm

Cab & Control

	All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat.
Control	
	Two hand levers and two foot pedals for travel

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 × 1,550 mm	
Arm cylinder:	170 mm × 1,788 mm	
Bucket cylinder:	150 mm X 1,193 mm	



Refilling Capacities & Lubrications

Fuel tank:	580 L
Cooling system:	31.1 L
Engine oil:	28.5 L
Travel reduction gear:	2 × 9.5 L
Swing reduction gear:	7.4 L
Hydraulic oil tank:	280 L tank oil level 353 L hydraulic system



Backhoe bucket and arm combination

	Use	Backhoe bucket								
	USE	Normal digging								
Bucket capacity	ISO heaped m ³	1.4	1.6							
вискет сараспу	Struck m³	1.0	1.2							
0	With side cutter mm	1,460	1,650							
Opening width	Without side cutter mm	1,250	1,440							
No. of bucket teetl	n	5	5							
Bucket weight kg		1,410	1,450							
Combinations	2.6 m short arm	0	©							
	3.0 m standard arm	©	X							

 $[\]odot$ Standard \odot Recommended \times Not recommended



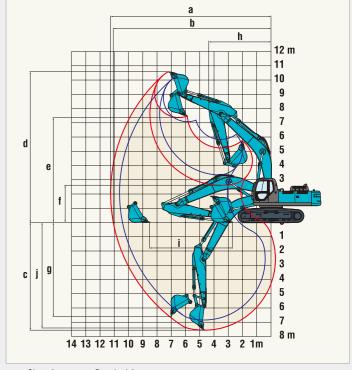
Working Ranges

		UIIIL. II
Boom	6.5	5 m
Arm	Short	Arm
Range	2.6 m	3.3 m
a- Max. digging reach	10.61	11.26
b- Max. digging reach at ground level	10.4	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	4.45	4.37
i - Horizontal digging stroke at ground level	4.21	5.82
j - Digging depth for 2.4 m (8') flat bottom	6.67	7.4
Bucket capacity ISO heaped m ³	1.6	1.4

Digging Force (ISO 6015)

Digging I didd (100 0010)		UIIIL KN (L
Arm length	Short 2.6 m	Arm 3.3 m
Bucket digging force	221 244*	222 244*
Arm crowding force	205 225*	165 181*

^{*}Power Boost engaged.



---- Short Arm ----- Standard Arm

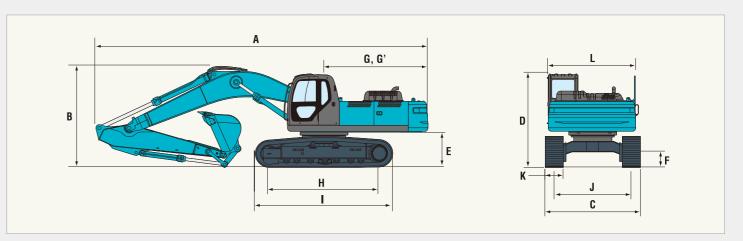


A	rm length	Short 2.6 m	Arm 3.3 m				
Α	Overall length	11,430	11,350				
В	Overall height (to top of boom)	3,640	3,420				
C	Overall width	3,200					
D	Overall height (to top of cab)	3,160					
E	Ground clearance of rear end*	1,190					
F	Ground clearance*	500					

		Unit: mm
G	Tail swing radius	3,650
G'	Distance from center of swing to rear end	3,650
Н	Tumbler distance	4,050
Τ	Overall length of crawler	4,980
J	Track gauge	2,600
K	Shoe width	600
L	Overall width of upperstructure	2,950

^{*} Without including height of shoe lug.

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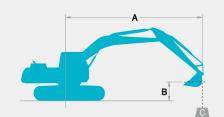
Operating Weight & Ground Pressure

In standard trim, with 6.5 m boom, 3.3 m standard arm, and 1.4 m³ ISO heaped bucket

otaliaara iliin, iliin olo ili 200, olo ili otaliaara aliin	, and TTT III 100 Houped Sacket
Shaped	Triple grouser shoes (even height)
Shoe width mm	600
Overall width mm	3,200
Ground pressure kPa	67
Operating weight kg	36,000

0







- A Reach from swing centerline to bucket hook
- B Bucket hook height above/below ground
- C Lifting capacities in kilograms
- Max. discharge pressure: 37.8 MPa (385 kg/cm²)

SK380HDL	Short Arm	: 2.6 m, Buc	ket: 1.6 m³ lS	O heaped 1	,450 kg Sho	e: 600 mm (Power Boost)						
A		3.0 m		4.5	i m	6.0 m		7.5 m		9.0 m		At Max. Reach		
В			—		—									Radius
7.5 m	kg											*6,910	*6,910	7.26 m
6.0 m	kg							*7,100	6,490			*6,870	5,490	8.18 m
4.5 m	kg			*11,430	*11,430	*8,910	*8,910	*7,640	6,240			*7,070	4,680	8.75 m
3.0 m	kg			*14,360	13,160	*10,310	8,470	*8,350	5,900	7,110	4,270	7,070	4,250	9.03 m
1.5 m	kg			*16,4000	12,100	*11,510	7,900	*9,010	5,590	6,950	4,120	6,880	4,080	9.06 m
G.L.	kg			*16,950	11,700	*12,170	7,550	9,120	5,370			7,060	4,160	8.83 m
-1.5 m	kg	*17,780	*12,400	*16,450	11,670	*12,140	7,430	9,030	5,290			7,700	4,530	8.33 m
-3.0 m	kg	*20,380	*20,100	*15,020	11,870	*11,290	7,510					*8,520	5,410	7.49 m
-4.5 m	kg	*16,190	*24,500	*12,260	*12,260	*9,060	7,840					*8,660	7,500	6.19 m

SK380HDL	SK380HDLC Standard Arm: 3.3 m, Bucket: 1.4 m³ ISO heaped 1,410 kg Shoe: 600 mm (Power Boost)															
	Α	1.5	m	3.0) m	4.5	m	6.0	D m	7.5	5 m	9.0) m	At Max.	Reach	
В			—		—			1	—		—		—		—	Radius
7.5 m	kg									*6,080	*6,080			*3,860	*3,860	8.07 m
6.0 m	kg									*6,310	*6,310			*3,800	*3,800	8.91 m
4.5 m	kg							*7,950	*7,950	*6,920	6,310	*6,340	4,440	*3,900	*3,900	9.43 m
3.0 m	kg			*13,820	*13,820	*12,850	*12,850	*9,430	8,620	*7,710	5,930	*6,730	4,250	*4,160	3,670	9.69 m
1.5 m	kg			*7,640	*7,640	*15,360	12,340	*10,810	7,950	*8,490	5,570	6,890	4,060	*4,600	3,520	9.72 m
G.L.	kg			*11,210	*11,210	*16,580	11,660	*11,740	7,490	9,050	5,290	6,730	3,910	*5,320	3,560	9.51 m
-1.5 m	kg	*11,590	*11,590	*16,120	*16,120	*16,630	11,450	*12,040	7,270	8,880	5,140	6,660	3,840	*6,500	3,830	9.04 m
-3.0 m	kg	*16,450	*16,450	*22,070	*22,070	*15,700	11,530	*11,600	7,260	*8,860	5,140			7,640	4,440	8.28 m
-4.5 m	kg	*21,950	*21,950	*18,920	*18,920	*13,620	11,850	*10,130	7,470					*7,970	5,770	7.13 m
-6.0 m	kg					*9,550	*9,550							*7,830	*7,830	5.33 m

- Notes:

 1. 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.

 2. 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.

 3. Bucket lift hook defined as lift point.
- 3. Bucket lift hook 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
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.
- 7. The above figures indicate machine capacity, but in practice the machine should not be used for lifting loads.