

KOBELCO

SK380XDL-11

Performance  Design

SK380XD_{LC}

■ Bucket capacity:

1.60 – 1.90 m³

■ Engine power:

210 kW/1,900 min⁻¹

■ Operating weight:

39,500 – 40,000 kg



We Save You Fuel
Achieving a Low-Carbon Society



Performance Design

SK380XDL of KOBELCO has realised a completely new value by harmonising **PERFORMANCE** and **DESIGN**.

Performance enhancements offer greater efficiency and productivity along with increased power and speed.

Design improvements provide the ultimate in comfort and control.

KOBELCO refuses to compromise, creating machines that meet every challenge.



ENHANCED ROBUSTNESS TOWARDS GREATER SAFETY AND RELIABILITY



Reinforced arm optimised for use in mines and quarries

The rock guard has been extended to enhance durability in harsh working environments. This prevents damage and deformation of the arm from severe impacts with rocks.



Significant improvement in boom durability

The rigidity of the boom has been improved by reinforcing the thickness of the plate. It is designed to withstand intense excavation work and heavy rock impacts in mining sites.



Upper frame with enhanced impact resistance

The upper frame features a collision-prevention structure. This prevents frame deformation due to external impact. In addition, the thickness of the under cover of the upper machine body has been increased to protect the upper structure from accidental impacts while traveling.



AN UNDERCARRIAGE BUILT FOR UNBEATABLE DURABILITY



Reinforced Guide Frame ❶

Reinforced guide frame prevents deformation caused by impact or intrusion of loose stones.



Reinforced Guide Frame ❷

A reinforced guide frame is also used on the inside.



Thicker Steel Plate for Shoes

Reinforced HD shoes made from thick steel plate to master rough, stony ground.



Track Links

The size and durability of the track links are increased compared to standard models.



Lower Frame Underside Cover

Hydraulic piping and equipment are protected against damage from rubble and stony ground.



Upper Under Covers

Thick covers with increased durability compared to standard models.



THE ULTIMATE SLEEK AND STYLISH CAB DESIGN

True ergonomic functionality combined with modern design has resulted in a cabin interior that is sleek and comfortable, built for simplicity and operator comfort.

Jog dial

The jog dial integrates multiple functions to allow for simple navigation of machine information screens, even while wearing gloves.

LED backlights

LED backlighting on switches and dials provides a bright, clear view of controls, even in the dark, while delivering a premium look and feel.







UNFORGETTABLE COMFORT

Air suspension seat

A GRAMMER* seat is installed as standard equipment, which achieves excellent shock absorption and superior ride comfort.

*GRAMMER is trademark of GRAMMER AG. registered in Germany and other countries.

Optimal air conditioning vent placement

Air conditioning vents are optimally placed around the cabin with air flow directed toward the operator's neck and back, providing more comfortable operation.

Ergonomic and low-effort pilot control levers

Pilot control levers are mounted on adjustable consoles, with an ergonomic design that allows movement without twisting, reducing operator fatigue.



New Hydraulic Control

Our newly upgraded hydraulic control system responds to shorter lever strokes than current models, delivering swifter, more precise movement and improved lever operability.

LED door light

The LED interior light automatically turns on when the door is opened or when the ignition is set to OFF. This ensures easy entry and exit at nighttime.



KOBELCO



04:33



SETTING MENU



PICTURE OF
CAMERA



CLOCK
SETTING



SCREEN
BRIGHTNESS



MAINTENANCE



CONSUMPTION



LANGUAGE
SELECTION



PRESSURE
RELEASE



A WIDER VIEW BRINGS A WIDER RANGE OF USE

10-inch colour monitor—the largest in the industry

The easy-to-operate menu screen facilitates easy reading and navigation. Images from the built-in cameras can be checked on the large screen, which helps to improve safety. In addition, each icon is easily recognisable.



The right camera and rear camera (right side view mode)

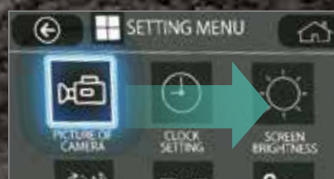


The right camera and rear camera (straight view mode)



SAFETY ON FULL DISPLAY

Our high-resolution, large display shows right, left and rear side cameras together. Multiple camera modes allow operators to customise their display based on their needs to enhance awareness and jobsite safety.



Screen display linked with the jog dial operation

The jog dial provides simple and intuitive control of all display screens. Turn the jog dial to the right or left to select an item and press the dial to confirm the selection.

EASY MAINTENANCE



Standard Overhead Top Guard Level II

The standard overhead cab guard can be tilted open for easy window cleaning. Meets standard top guard level II requirements. (ISO 10262)



Engine Maintenance

Lower service platform makes engine service easier.



Two-stage air filter



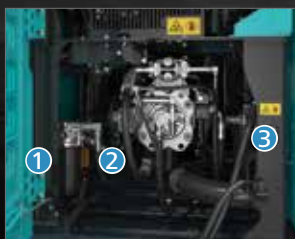
DEF/AdBlue® Tank

The DEF/AdBlue® fill point is located inside the lockable tool box.



Left side (radiator and cooling system elements)

Laid out for easy access to radiator and cooling system.



Right Side (Ground Level Maintenance)



① Fuel Filter ② Pre-Filter with Integrated Water Separator



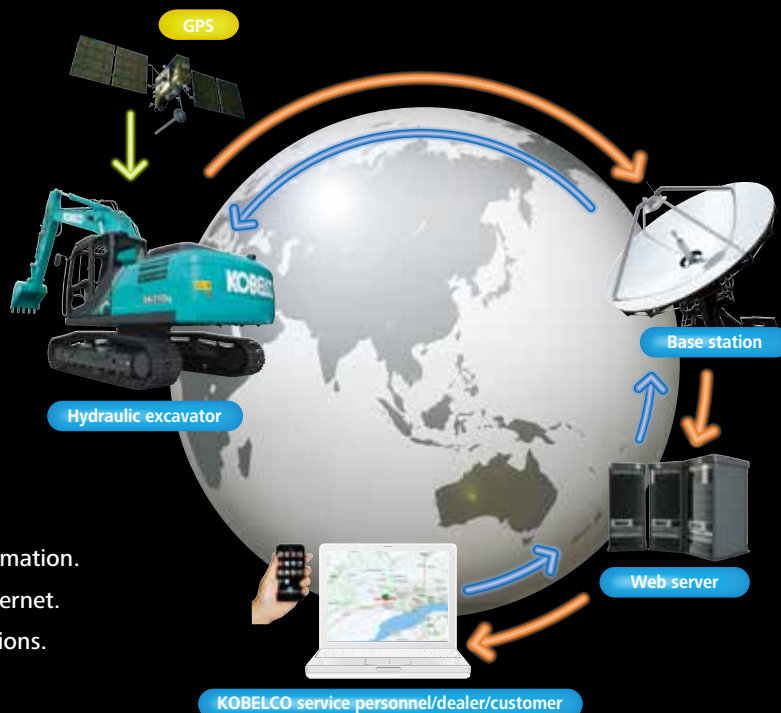
③ Engine oil filter

Note: AdBlue® is a registered trademark of the Verband der Automobilindustrie e.V. (VDA).



Total Support for Machines with Network Speed and Accuracy

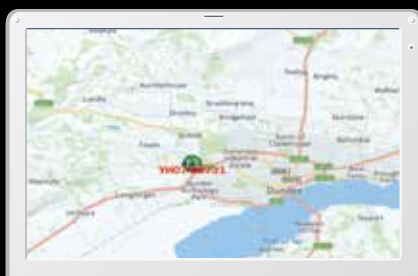
GEO SCAN is a telematics system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.



Direct Access to Operational Status

Location Data

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



Latest location

Fuel Consumption Data

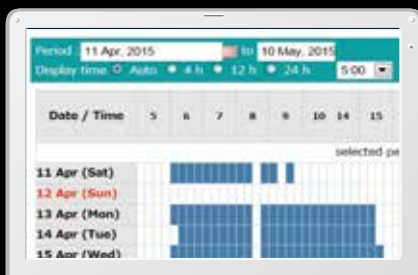
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

Work mode	Working Hrs	Total Fuel Consumption
H mode	2:06	24.5 L
S mode	0:00	0.0 L
E mode	169:19	1489.7 L
TOTAL	171:25	1514.2 L

Fuel consumption

Operating Hours

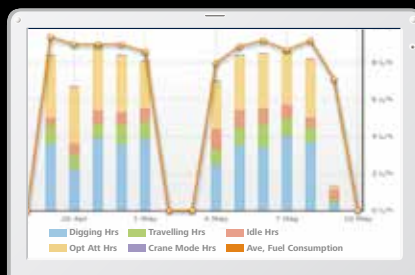
A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable. Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.



Daily report

Graph of Work Content

The graph shows how working hours are divided among different operating categories, including digging, idling, travelling, and optional operations (N&B).



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
SK135SLC-3/SK140SLC	Y107-09221	734 Hr	434 Hr
SK135SLC-3/SK140SLC	Y107-09289	73 Hr	429 Hr
SK210LC-9	Y213-10454	960 Hr	58 Hr
SK210LC-9	Y213-10481	549 Hr	408 Hr
SK75SR	Y108-20374		

Warning Alerts

This system warns an alert if an anomaly is sensed, preventing damage that could result in machine downtime.

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.

Specifications



Engine

Model	ISUZU 6HK1
Type	Four-cycle, water-cooled, direct injection diesel engine, turbo charged, Tier 4 Final exhaust emission regulation
No. of cylinders	6
Bore and stroke	115 mm x 125 mm
Displacement	7.790 L
Rated power output	198 kW/1,900 min ⁻¹ (ISO 9249) 210 kW/1,900 min ⁻¹ (ISO 14396)
Max. torque	1,011 N·m/1,500 min ⁻¹ (ISO 9249) 1,080 N·m/1,500 min ⁻¹ (ISO 14396)



Hydraulic System

Pump	
Type	Two variable displacement axial piston pumps + extra gear pump + pilot gear pump
Max. discharge flow	2 x 294 L/min, 1 x 44.3 L/min, 1 x 19 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa
Power Boost	37.8 MPa
Travel circuit	35.8 MPa
Swing circuit	29.5 MPa
Control circuit	5.0 MPa
Pilot control pump	Gear type
Main control valve	8-spool
Oil cooler	Air cooled type



Swing System

Swing motor	One fixed displacement piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Wet multiple plate
Swing speed	10.0 min ⁻¹
Swing torque	120 kN·m



Attachments

Backhoe bucket and combination

Use			Backhoe bucket	
			Normal digging	
Bucket capacity	ISO heaped	m ³	1.60	1.90
Opening width	With side cutter	mm	1,470	1,740
	Without side cutter	mm	1,470	1,740
No. of teeth			5	5
Bucket weight		kg	1,890	2,100
Combination	2.60 m short arm		×	◎
	3.30 m standard arm		◎	×

◎ Standard × Not recommended



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 (2nd/1st)	5.6/3.3 km/h
Rated drawbar pull	321 kN (SAE J 1309)
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	41.4 L
Engine oil	48.6 L
Travel reduction gear	2 x 8.0 L
Swing reduction gear	1 x 7.4 L
Hydraulic oil tank	245 L tank oil level
	410 L hydraulic system
DEF/Urea tank	83 L



Working Ranges

Unit: mm

Boom	6.50 m	
Range	Short 2.60 m	Standard 3.30 m
a- Max. digging reach	10,610	11,260
b- Max. digging reach at ground level	10,400	11,060
c- Max. digging depth*	6,840	7,560
d- Max. digging height*	10,230	10,540
e- Max. dumping clearance*	7,070	7,370
f- Min. dumping clearance*	3,340	2,620
g- Max. vertical wall digging depth*	5,700	6,480
h- Min. swing radius	4,460	4,310
i- Horizontal digging stroke at ground level	4,210	5,820
j- Digging depth for 2.4 m (8') flat bottom*	6,650	7,400
Bucket capacity ISO heaped m³	1.90	1.60

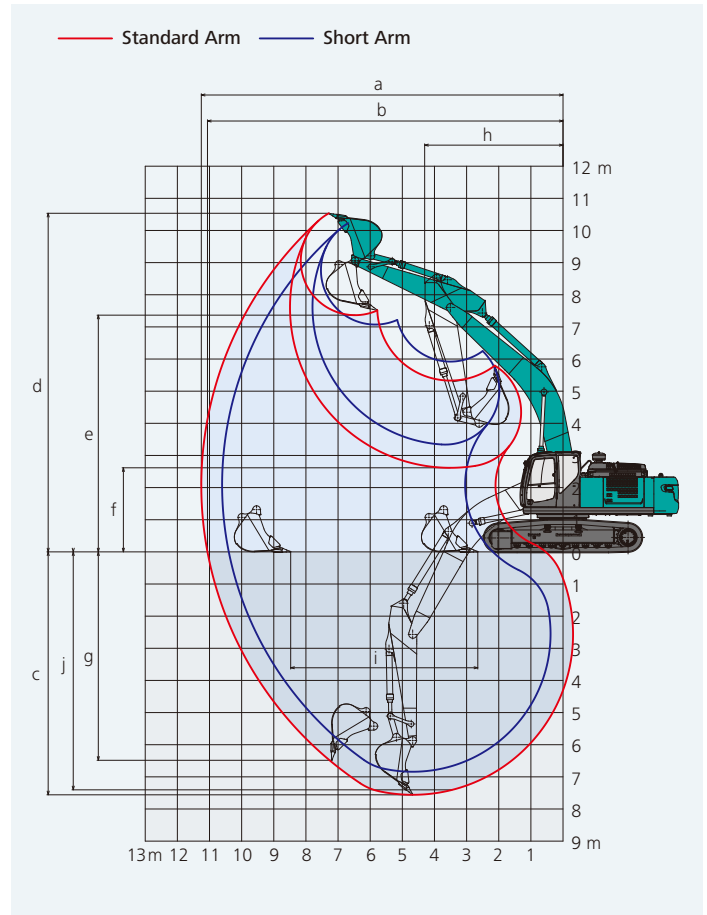
*Without including height of shoe

Digging Force (ISO 6015)

Unit: kN

Arm length	Short 2.60 m	Standard 3.30 m
Bucket digging force	229	229
	252*	252*
Arm crowding force	207	165
	228*	182*

*Power Boost engaged



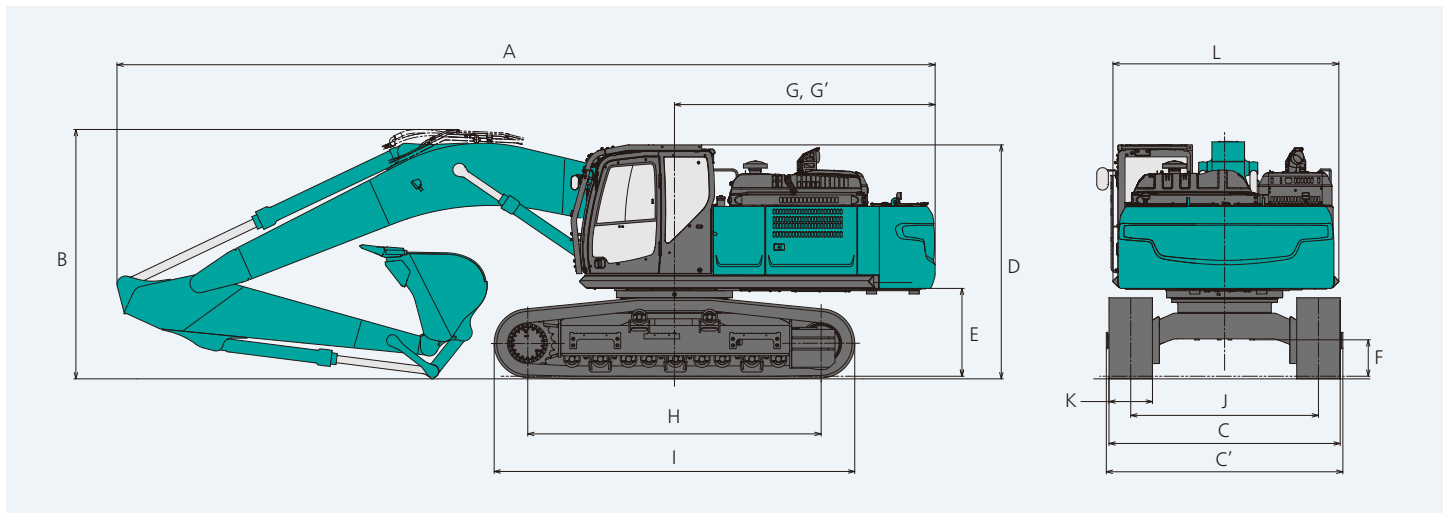
Dimensions

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	3,440
C Overall width of crawler (without steps)	3,190	
C' Overall width of crawler (with steps)	3,260	
D Overall height (to top of cab)	3,230	
E Ground clearance of rear end*	1,210	

Unit: mm

F Ground clearance*	500
G Tail swing radius	3,600
G' Distance from centre of swing to rear end	3,600
H Tumbler distance	4,050
I Overall length of crawler	4,980
J Track gauge	2,590
K Shoe width	600
L Overall width of upperstructure	3,120

*Without including height of shoe



Operating weight and ground pressure

In standard trim, with standard boom, 3.30 m arm, and 1.60 m³ ISO heaped bucket, Semi-heavier counterweight

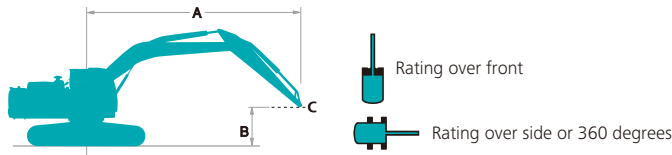
Shaped		Triple grouser shoes	Double grouser shoes
Shoe width	mm	600 (HD)	600 (HD)
Overall width of crawler (without steps)	mm	3,190	3,190
Ground pressure	kPa	73.8	74.4
Operating weight	kg	39,500	39,800

In standard trim, with standard boom, 2.60 m arm, and 1.90 m³ ISO heaped bucket, Semi-heavier counterweight

Shaped		Triple grouser shoes	Double grouser shoes
Shoe width	mm	600 (HD)	600 (HD)
Overall width of crawler	mm	3,190	3,190
Ground pressure	kPa	74.1	74.7
Operating weight	kg	39,600	40,000

Lift capacities

SK380XD^{LC}
SK380XDLC-11



A - Reach from swing centerline to arm top

B - Arm top height above/below ground

C - Lift point

Relief valve setting: 37.8 MPa

SK380XDLC		Boom: 6.50 m Arm: 3.30 m Bucket: without Counterweight: 8,590 kg Shoe: 600 HD mm (Heavy Lift)														
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At max. reach		
																Radius
9.0 m	kg													*6,160	*6,160	6.56 m
7.5 m	kg									*7,640	*7,640			*5,630	*5,630	7.86 m
6.0 m	kg									*7,770	*7,770			*5,440	*5,440	8.71 m
4.5 m	kg							*9,570	*9,570	*8,340	8,020	*7,700	5,980	*5,460	*5,460	9.25 m
3.0 m	kg					*14,990	*14,990	*11,030	10,650	*9,100	7,690	*8,010	5,830	*5,650	5,320	9.52 m
1.5 m	kg					*17,220	15,090	*12,310	*12,310	*9,810	7,380	*8,340	5,680	*6,020	5,200	9.54 m
G.L.	kg					*17,990	14,620	*13,060	9,720	*10,280	7,160	*8,490	5,560	*6,660	5,290	9.33 m
−1.5 m	kg			*15,180	*15,180	*17,630	14,520	*13,130	9,570	*10,300	7,050			*7,730	5,660	8.85 m
−3.0 m	kg	*17,320	*17,320	*22,250	*22,250	*16,310	14,660	*12,390	9,600	*9,570	7,100			*8,510	6,470	8.07 m
−4.5 m	kg			*18,170	*18,170	*13,720	*13,720	*10,380	9,850					*8,420	8,220	6.88 m

SK380XDLC		Boom: 6.50 m Arm: 2.60 m Bucket: without Counterweight: 8,590 kg Shoe: 600 HD mm (Heavy Lift)										
A \ B		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
												Radius
7.5 m	kg									*8,640	*8,640	7.06 m
6.0 m	kg					*9,250	*9,250	*8,490	8,080	*8,430	7,230	8.00 m
4.5 m	kg			*13,400	*13,400	*10,380	*10,380	*8,930	7,850	*8,410	6,330	8.58 m
3.0 m	kg					*11,710	10,380	*9,560	7,550	*8,490	5,870	8.87 m
1.5 m	kg					*12,760	9,890	*10,130	7,280	*8,650	5,730	8.89 m
G.L.	kg			*17,840	14,490	*13,190	9,620	*10,390	7,110	*8,830	5,870	8.66 m
−1.5 m	kg			*16,930	14,540	*12,900	9,550	*10,090	7,080	*9,000	6,370	8.15 m
−3.0 m	kg	*19,230	*19,230	*15,110	14,770	*11,680	9,690			*9,030	7,500	7.29 m
−4.5 m	kg	*14,610	*14,610	*11,720	*11,720					*8,530	*8,530	5.95 m

Note:

- 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.
- Bucket pin attachment point 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 and Optional Equipment

●=Std ○=Opt

Category	Description	SK380XDL-11
ENGINE	ISUZU 6HK1 engine (Tier IV Final certified)	●
	Exhaust DOC SCR system	●
	Alternator 24 V / 90 A	●
	Starter motor 24 V / 5 kW	●
	Batteries 2 x 12 V (140 Ah)	●
	Fan suction type cooling system	●
	Auto deceleration function	●
	Auto Idle Stop (AIS)	●
HYDRAULIC SYSTEM	3 work modes H, S, Eco	●
	Power boost (37.8 MPa)	●
	Heavy lift mode	●
	Pressure release function	●
	Independent travel function	●
	Auto warm up system	●
	Proportional Hand Control (for extra & N&B piping)	●
	Proportional Hand Control (for extra piping)	○
PIPING	Hydraulic oil VG46	●
	Extra & N&B piping	●
CABIN	QH piping	●
	Air suspension seat with heating	●
	10-inch colour monitor	●
	LED door light	●
	Air-conditioner	●
	Radio (FM/AM & AUX & USB & Bluetooth® & hands free telephone)	●
	12 V power outlet	●
	Rain visor	○
LIGHTS	Front roll screen	●
	LED work lights : 2 on cab top front, 2 on boom, 1 on upper frame, 2 on rear counterweight	●
WORKING EQUIPMENT	Standard boom (6.50 m)	●
	Standard arm (3.30 m)	●
	Short arm (2.60 m)	○
COUNTERWEIGHT	Semi heavier C/W (8,590 kg)	●
UNDERCARRIAGE	600 mm HD steel shoe	●
	600 mm HD double grouser shoe	○
	Additional track guides (three additional per side)	●
	Lower frame guard	●
SAFETY	Engine emergency stop switch	●
	Pump emergency mode (KPSS release switch)	●
	Emergency accel dial	●
	Emergency manual valve for lowering attachment	●
	Safety valve for boom and arm cylinder	●
	ROPS compliant cab (ISO 12117-2:2008)	●
	OPG Level II top guard (ISO 10262:1998)	●
	OPG Level II front guard (ISO 10262:1998)	○
	Eagle-eye view camera (Rear, Right, Left)	●
	Seatbelt indicator on display	●
	Travel alarm	●
	Emergency escape hammer	●
OTHERS	Refueling pump	○
	Harness for engine room light	●
	RAL colour	●
	GEOSCAN	●

Note: Bluetooth® is a registered trademark of the Bluetooth SIG Inc.

MEMO

SK380XD^{LC}
SK380XDLC-11

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.
Specialist equipment is needed to use this machine in demolition work. Before using it please contact your KOBELCO dealer.
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