

KOBELCO

SK380SRLC

Performance  Design

SK380SRLC

- Bucket capacity:
1.20 m³
- Engine power:
200 kW / 2,100 min⁻¹
- Operating weight:
36,800 kg



We Save You Fuel
Achieving a Low-Carbon Society

Standard Equipment

- ENGINE**
- Engine, HINO J08 EYD, diesel engine with turbocharger and intercooler
 - Auto Idle Stop (AIS)
 - Automatic engine deceleration
 - Batteries (2 X 12 V - 120 Ah)
 - Starting motor (24 V - 5 kW)
 - 60 amp alternator
 - Engine oil pan drain valve
 - Two-stage air filter
- CONTROL**
- Working mode selector (H-mode, S-mode and ECO-mode)
 - Power Boost
- SWING SYSTEM & TRAVEL SYSTEM**
- Swing rebound prevention system
 - Swing flasher
 - Two-speed travel with automatic shift down
 - Sealed & lubricated track links
 - 600mm steel track shoes
 - Grease-type track adjusters
 - Automatic swing brake
- MIRRORS, LIGHTS & CAMERAS**
- Rear view mirror, rear view camera, left and right side camera
 - Five LED front work lights
(two for cab, two for boom, one for right-side steps)
- HYDRAULIC**
- Nibbler & Breaker hand control
- CAB & CONTROL**
- Two control levers, pilot-operated
 - Horn, electric
 - Pattern changer
 - Interior cab light
 - Coat hook
 - Large cup holder
 - Detachable two-piece floor mat
 - Air suspension Heated Seat
 - Retractable 3-inch seatbelt
 - Headrest
 - Handrails
 - Intermittent windshield wiper with double-spray washer
 - Skylight
 - Tiltable FOPS overhead cab guard (ISO 10262)
 - Tinted safety glass
 - Pull-type front window and removable lower front window
 - Easy-to-read multi-display monitor
 - Automatic air conditioner
 - Emergency escape hammer
 - Radio (AUX & Bluetooth®)
 - 12 V converter
 - Travel alarm
 - Lower swivel guard
 - Quick hitch piping
 - GEOSCAN

Optional Equipment

- 700, 800, 850mm steel track shoes
- Front-guard (bar type)
- Rain visor (may interfere with bucket action)
- Rotation hydraulic circuit

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.
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Total Support for Machines with Network Speed and Accuracy

GEOSCAN is a cellular based 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.

Fuel Consumption Data

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

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.

Specifications

Engine

Model	HINO J08 EYD
Type	Four-cycle, liquid-cooled, direct injection diesel, turbo charged
No. of cylinders	6
Bore and stroke	112 mm × 130 mm
Displacement	7.684 L
Rated power output	188 kW/2,100 min ⁻¹ (ISO 9249: with fan)
	200 kW/2,100 min ⁻¹ (ISO 14396: without fan)
Max. torque	989 N·m/1,600 min ⁻¹ (ISO 9249: with fan)
	1,017 N·m/1,600 min ⁻¹ (ISO 14396: without fan)

Hydraulic system

Pump	
Type	Two variable displacement axial piston pumps with a gear pump
Max. discharge flow	2 × 246 L/min
	1 × 21 L/min
	Extra gear pump 1 × 43 L/min
Relief valve setting	
Boom, arm and bucket	34.3 Mpa
Power Boost	37.8 Mpa
Travel circuit	34.3 Mpa
Swing circuit	29.0 Mpa
Control circuit	5.0 Mpa
Pilot control pump	Gear type
Main control valves	12-spool
Oil cooler	Air cooled type

Swing system

Swing motor	One fixed displacement piston pump
Parking brake	Wet multiple plate
Swing speed	8.4 min ⁻¹
Swing torque	120 kN (SAE)
Tail swing radius	1,900 mm
Min. front swing radius	3,450 mm

Attachments

Backhoe bucket and combination

Use	Backhoe bucket	
	Normal digging	
Bucket capacity	ISO heaped	m ³
	struck	m ³
Opening width	With side cutter	mm
	Without side cutter	mm
No. of teeth		5
Bucket weight		kg
Combination	3.10 m standard arm	○
	2.40 m short arm	○

○ Recommend

Travel system

Travel motors	Variable displacement piston, two-speed motors
Parking brakes	Wet multiple plate
Travel shoes	48 each side
Travel speed	4.6/2.8 km/h
Drawbar pulling force	314 kN (SAE)
Gradeability	70 % {35°}
Ground clearance	500 mm

Cab & control

Cab

All-weather, sound-suppressed steel cab mounted on the silicon-sealed suspension mounts 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	145 mm × 1,361 mm
Arm cylinder	150 mm × 1,675 mm
Bucket cylinder	130 mm × 1,208 mm

Refilling capacities & lubrications

Fuel tank	350 L
Cooling system	35 L
Engine oil	28.5L
Travel reduction gear	2 × 7.5 L
Swing reduction gear	7.4 L
Hydraulic oil tank	245L tank oil level
	440L hydraulic system
DEF tank	20.7L

Working ranges

Unit: m

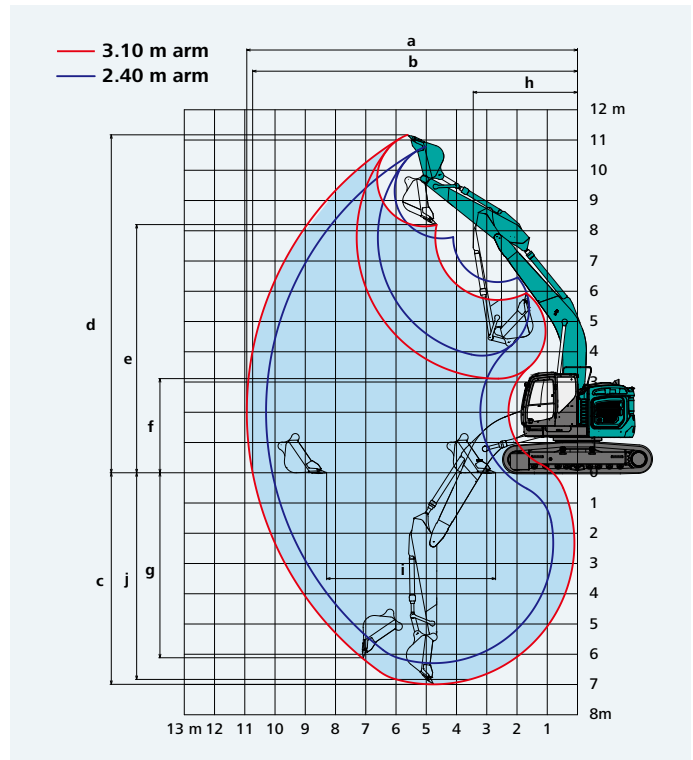
Boom	6.20 m		
	Arm	2.40 m	3.10 m
Range			
a- Max. digging reach		10.30	10.93
b- Max. digging reach at ground level		10.09	10.74
c- Max. digging depth		6.29	6.99
d- Max. digging height		10.78	11.17
e- Max. dumping clearance		7.75	8.15
f- Min. dumping clearance		3.87	3.11
g- Max. vertical wall digging depth		5.69	6.11
h- Min. swing radius		3.56	3.45
i- Horizontal digging stroke at ground level		3.99	5.59
j- Digging depth for 2.4 m (8') flat bottom		6.10	6.83
Bucket capacity ISO heaped m ³		1.20	

Digging force (ISO 6015)

Unit: kN

Arm length	2.40 m	3.10 m
Bucket digging force	189 / 208*	189 / 208*
Arm crowding force	158 / 174*	126 / 139*

*Power Boost engaged.



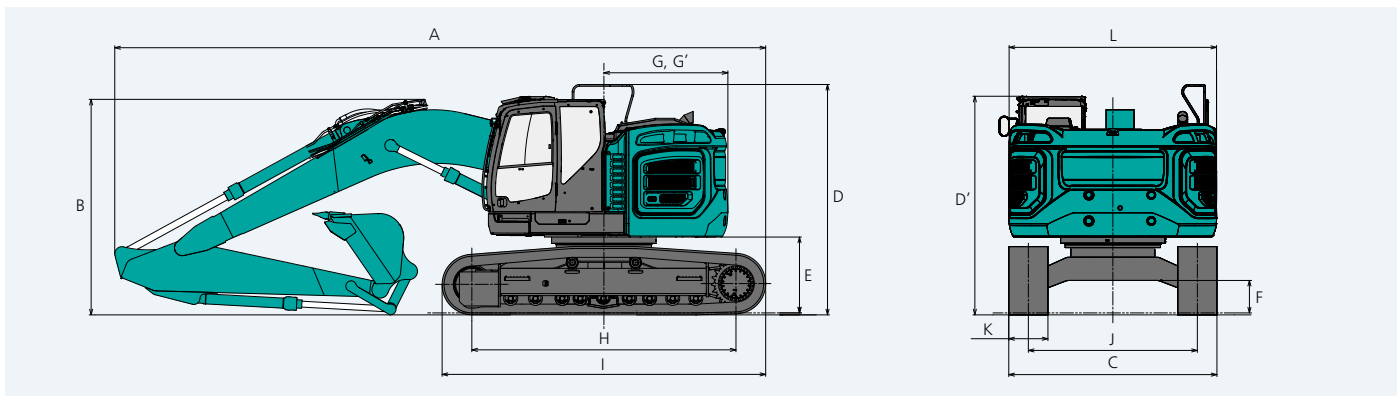
Dimensions

Unit: mm

Arm length	2.40 m	3.10 m
A Overall length	10,100	9,980
B Overall height (to top of boom)	3,550	3,300
C Overall width	3,190**	
D Overall height (to top of handrail)	3,530	
D' Overall height (to top of cab)	3,350	
E Ground clearance of rear end*	1,160	
F Ground clearance*	500	

G Tail swing radius	1,900
G' Distance from center of swing to rear end	1,900
H Tumbler distance	4,050
I Overall length of crawler	4,960
J Track gauge	2,590
K Shoe width	600
L Overall width of upperstructure	3,180

*Without including height of shoe lug **600 mm shoe



Operating weight & ground pressure standard boom

Boom: 6.20 m Arm: 2.40 m bucket: 1.20 m³ ISO heaped bucket

Type of Grouser		Triple grouser				Double grouser
Shoes	mm	600	700	800	850	600
Ground pressure	kPa	68	60	53	50	69
Operating weight	kg	36,600	37,400	37,800	38,000	37,100

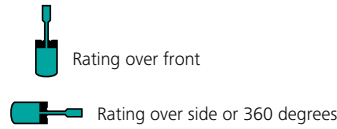
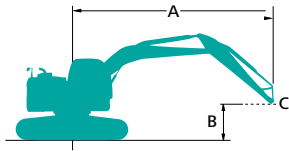
Boom: 6.20 m Arm: 3.10 m bucket: 1.20 m³ ISO heaped bucket

Type of Grouser		Triple grouser				Double grouser
Shoes	mm	600	700	800	850	600
Ground pressure	kPa	69	60	53	51	70
Operating weight	kg	36,800	37,600	38,000	38,200	37,300

Lift Capacities

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A - Reach from swing centerline to arm top
 B - Arm top height above/below ground
 C - Lift point
 Relief valve setting: 37.8 MPa

SK380SRLC		Arm: 2.40m Bucket: without Counterweight: 9,000kg Shoe: 600mm (Heavy Lift)											
B	A	3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius	
9.0m	kg										*8,950	*8,950	5.04 m
7.5m	kg					*8,630	*8,630				*7,680	7,080	6.72 m
6.0m	kg			*10,240	*10,240	*9,010	8,450	*8,510	5,870		*7,230	5,540	7.74 m
4.5m	kg			*13,030	12,370	*10,150	8,040	*8,840	5,720		*7,150	4,780	8.36 m
3.0m	kg					*11,540	7,550	9,330	5,500		*7,340	4,410	8.67 m
1.5m	kg					*12,610	7,150	9,090	5,280		7,310	4,290	8.71 m
G.L.	kg			*15,460	10,410	12,440	6,940	8,940	5,150		7,530	4,390	8.47 m
-1.5m	kg	*11,100	*11,100	*16,530	10,460	12,390	6,890	8,920	5,130		8,260	4,790	7.94 m
-3.0m	kg	*18,730	*18,730	*14,550	10,650	*11,150	7,010				*8,880	5,720	7.03 m
-4.5m	kg			*10,840	*10,840						*8,260	8,180	5.58 m

SK380SRLC		Arm: 3.10m Bucket: without Counterweight: 9,000kg Shoe: 600mm (Heavy Lift)												
B	A	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		Radius
9.0m	kg					*5,380	*5,380					*4,790	*4,790	6.10 m
7.5m	kg					*7,420	*7,420	*4,530	*4,530			*4,240	*4,240	7.53 m
6.0m	kg					*7,960	*7,960	*7,600	5,960			*4,030	*4,030	8.45 m
4.5m	kg	*16,910	*16,910	*11,300	*11,300	*9,180	8,170	*8,110	5,770	*4,280	4,250	*3,990	*3,990	9.03 m
3.0m	kg			*14,640	11,590	*10,700	7,640	*8,860	5,500	*6,770	4,140	*4,090	3,910	9.31 m
1.5m	kg			*17,010	10,690	*12,030	7,180	9,070	5,250	6,910	4,020	*4,330	3,800	9.35 m
G.L.	kg			*17,670	10,320	12,390	6,870	8,860	5,070	*6,450	3,940	*4,770	3,860	9.13 m
-1.5m	kg	*11,420	*11,420	*17,140	10,250	12,250	6,750	8,770	4,990			*5,530	4,150	8.64 m
-3.0m	kg	*18,020	*18,020	*15,650	10,370	*11,810	6,790	8,840	5,050			*6,960	4,800	7.82 m
-4.5m	kg	*17,300	*17,300	*12,830	10,690	*9,480	7,040					*8,160	6,290	6.54 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.

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. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalogue may be reproduced in any manner without notice.

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