

KOBELCO

SK180LC-11/SK180N-11

Performance  Design

SK180_{LC} SK180_N

- Bucket capacity:
0.63 m³
- Engine power:
100 kW / 2,000 min⁻¹
- Operating weight:
19,000 – 21,200 kg



We Save You Fuel
Achieving a Low-Carbon Society



Performance Design

SK180LC/SK180N of KOBELCO has realised a completely new value by harmonising PERFORMANCE – greater efficiency and productivity with an increased power and speed and DESIGN – operator-based operability and comfort, refusing to accept any compromises.

In pursuit of unique and matchless machines which are unforgettable once you use them, KOBELCO will continue to rise to meet every challenge.



SK180 LC

THE ULTIMATE IN SIMPLE AND ELEGANT DESIGN

Our pursuit of functional beauty and aesthetic sense produced a new interior design.

Jog dial

This jog dial integrates multiple functions to realise simple operations. Even with gloved hands, the operator can set various machine conditions without stress.

LED backlights

The switches and dials have LED backlights – they provide a bright, clear view in the dark and set a luxurious mood.







UNFORGETTABLE COMFORT

1 Air suspension seat with heating

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.

2 Air-conditioner

Air is blown against the operator's waist and the back of their head, offering more comfortable operation.

3 Lever angles allow for comfortable operations

The operator can move the levers horizontally without twisting their wrist, which reduces the fatigue caused by the operations.



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.

4 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.

5 Parallel wipers secure a wide field of view



KOBELCO

ECO

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)

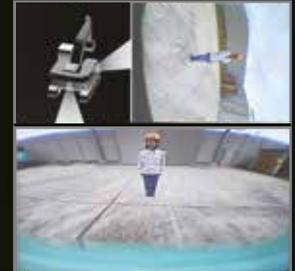
The easy-to-operate menu screen facilitates reading of important information. Images from the built-in cameras can be checked on the large screen, which helps secure safety. In addition, each icon has become easy to recognise. A password is required when starting the engine for greater security.



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

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

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



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



The bird's-eye view

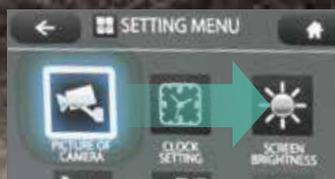


The eagle eye view

Right camera and rear view camera

Images from the right camera and rear view camera are displayed together on the large colour monitor. The right camera view can be selected between the straight view mode and right side view mode.

In addition, the bird's-eye view mode and the eagle eye mode can also be selected.



Screen display linked with the jog dial operation

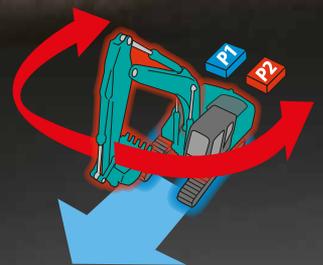
The jog dial can be operated as desired without causing stress. Turn the jog dial to the right or left to select an item and press the dial to confirm the selection.





Independent Travel

Selecting Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment. With Independent Travel, safely carrying a large pipe across a job site is a breeze.



EXPERIENCING A COMPETENT PERFORMANCE

Excellent machine stability, plus a high-output engine

Equipped with a high-output engine, the SK180LC/SK180N features outstanding stability thanks to an innovative new shape for conventional excavator, as well as a larger counterweight.

Model: HINO J05EVA-KSSL

Engine output

100 kW / 2,000 min⁻¹



»» Max. bucket digging force (Arm 2.60 m)

Normal: **114** kN

With Power Boost: **126** kN

Lift capacity

8,100kg

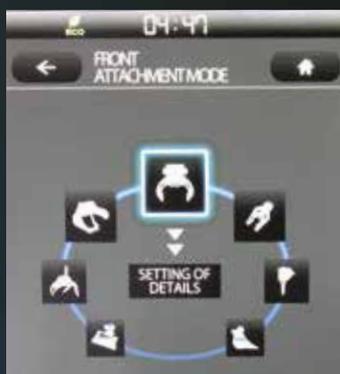
(Reach: 4.50 m Boom: 5.20 m Arm: 2.60 m Bucket: Without
Counterweight: 3,700 kg Shoe: 600 mm <Heavy Lift>)



GREATER MULTI-FUNCTION CAPABILITIES

Attachment mode

The flow-rate modes of the bucket, breaker, nibbler, and rotating grapple are set before delivery, which allows you to start operating immediately. Mode settings for other attachments, such as the tilt rotator, can easily be added or changed.



Adjustment for hydraulic flow

Divide ratio of hydraulic flow can be adjusted by service factory for custom usage.



EASY MAINTENANCE



Standard OPG Level II top guard

The standard OPG Level II top guard can be tilted open for easy window cleaning. Meets standard FOPS and OPG Level II top guard requirements. (ISO 10262:1998)



Two-stage air filter



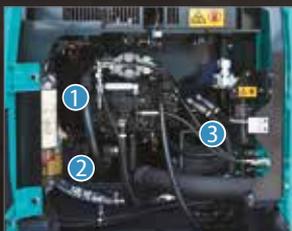
Urea tank

Urea filter cap is placed on the step for easy access.



Left side (radiator and cooling system elements)

Laid out for easy access to radiator and cooling system.



Right side



Fuel filter/Pre-filter



Engine oil filter

DURABILITY YOU CAN TRUST

Enhanced body rigidity for 18-ton class machines

The SK180LC and SK180N machines are widely used in mid-scale construction projects and harsh worksites. The components have been reviewed and improvements have been made to their durability to ensure stable performance in such environments.



Panels and supports

The right and left side panels and rear supports have been thicker to enhance body rigidity.



Bucket cylinder rod pin

The increased diameter of the bucket cylinder rod pin contributes to enhanced durability for various types of attachments.

CONVENIENT AND SENSIBLE EQUIPMENT



Engine start password

A password is required when starting the engine for greater security. The initial password must be set at our workshop.



Wiper adjustment function

In addition to the intermittent wiper mode and continuous wiper mode, the one-time wiper mode was added.



Parallel wipers/Sun screen



Console mount

The console-integrated seat allows for comfortable operation.



DAB+ radio (FM/AM & AUX & USB & Bluetooth® & hands-free telephone)



USB port/12V power supply



Smartphone holder

You can use the holder with your smartphone connected to the USB port.



KOBELCO MONITORING EXCAVATOR SYSTEM



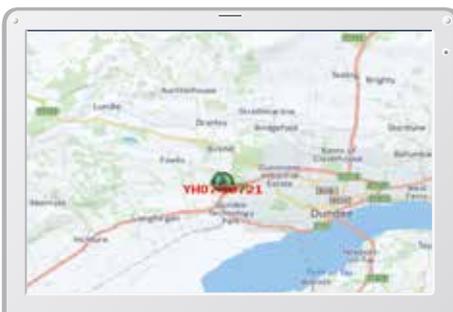
Remote Monitoring for Peace of Mind

KOMEXS (Kobelco Monitoring Excavator System) uses satellite communication and internet to relay data, and therefore can be deployed in areas where other forms of communication are difficult. When a hydraulic excavator is fitted with this system, data on the machine's operation, such as operating hours, location, fuel consumption, and maintenance status can be obtained remotely.

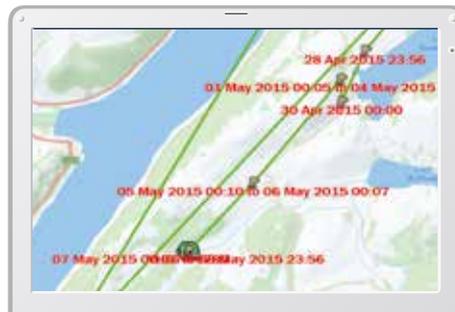
Direct Access to Operational Status

Location Data

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



Latest location



Location records

Period	11 Apr. 2015	15	10 May, 2015	Search
Type of Operation	Working Hrs		Ratio	
Total Working Hrs	169 Hrs		100 %	
Digging Hrs	72.2 Hrs		43 %	
Traveling Hrs	18.3 Hrs		11 %	
Idle Hrs	15.9 Hrs		9 %	
Opt Alt Hrs	62.5 Hrs		37 %	
Crane Mode Hrs	0 Hrs		0 %	

Work data

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.

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

Graph of Work Content

The graph shows how working hours are divided among different operating categories, including digging, idling, travelling 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
SK135RSLC-3/SK140SRL	YH07-09221	734 Hr	434
SK135RSLC-3/SK140SRL	YH07-09289	73 Hr	429
SK210LC-9	YQ13-10454	960 Hr	58
SK210LC-9	YQ13-10481	549 Hr	498
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.



Alarm messages can be received on mobile device.

Daily/Monthly Reports

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

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

Specifications

Engine

Model	HINO JO5EVA-KSSL
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger
No. of cylinders	4
Bore and stroke	112 mm × 130 mm
Displacement	5.123 L
Rated power output	95 kW / 2,000 min ⁻¹ (ISO 9249: with fan)
	100 kW / 2,000 min ⁻¹ (ISO 14396: without fan)
Max. torque	482 N·m / 1,600 min ⁻¹ (ISO 9249: with fan)
	502 N·m / 1,600 min ⁻¹ (ISO 14396: without fan)

Hydraulic system

Pump	
Type	Axial piston pumps + extra gear pump + pilot gear pump
Max. discharge flow	2 × 160 L/min, 1 × 42.6 L/min, 1 × 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	28.0 MPa {296 kgf/cm ² }
Control circuit	5.0 MPa {50 kgf/cm ² }
Pilot control pump	Gear type
Main control valve	8 - Spool valve
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	Oil disc brake, hydraulic operated automatically
Swing speed	12.6 min ⁻¹
Tail swing radius	2,550 mm
Min. front swing radius	2,710 mm
Swing torque	52.6 kN·m

Attachments

Backhoe bucket and combination

Use	Backhoe bucket	
	Normal digging	
Bucket capacity	ISO heaped	m ³
		0.63
Opening width	With side cutter	mm
	Without side cutter	mm
		1,075
		975
Bucket weight		kg
		500
Combination	2.60 m standard arm	⊙
	3.10 m long arm	⊙

⊙ Standard

Travel system

Travel motors	2 x axial-piston, two-step motors	
Travel brakes	Hydraulic brake per motor	
Parking brakes	Oil disc brake per motors	
Travel shoes	SK180LC	49 each side
	SK180N	45 each side
Travel speed	4.5 / 2.7 km/h	
Drawbar pulling force	230 kN (SAE)	
Gradeability	70% { 35° }	

Cab & control

Cab	
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 pedals for travel	
Two hand levers for excavating and swing	
Electric rotary-type engine throttle	
Noise levels	
External	102 dB(A) (2000/14/EC)
Operator	69 dB (A) (ISO 6396:2008)
Vibration levels	
Hand/arm*	≤ 2.5 m/s ²
Body*	≤ 0.5 m/s ²

*For the risk assessment according to 2002/44/EC, refer to ISO/TR 25398: 2006.

Boom, arm & bucket

Boom cylinders	110 mm × 1,156 mm
Arm cylinder	125 mm × 1,285 mm
Bucket cylinder	105 mm × 1,025 mm

Refilling capacities & lubrications

Fuel tank	280 L
Cooling system	19 L
Engine oil	20.5 L
Travel reduction gear	2 × 4.5 L
Swing reduction gear	1 × 2.7 L
Hydraulic oil tank	122 L tank oil level
	200 L hydraulic system
DEF/Urea tank	33.9 L

Working ranges

Unit: m

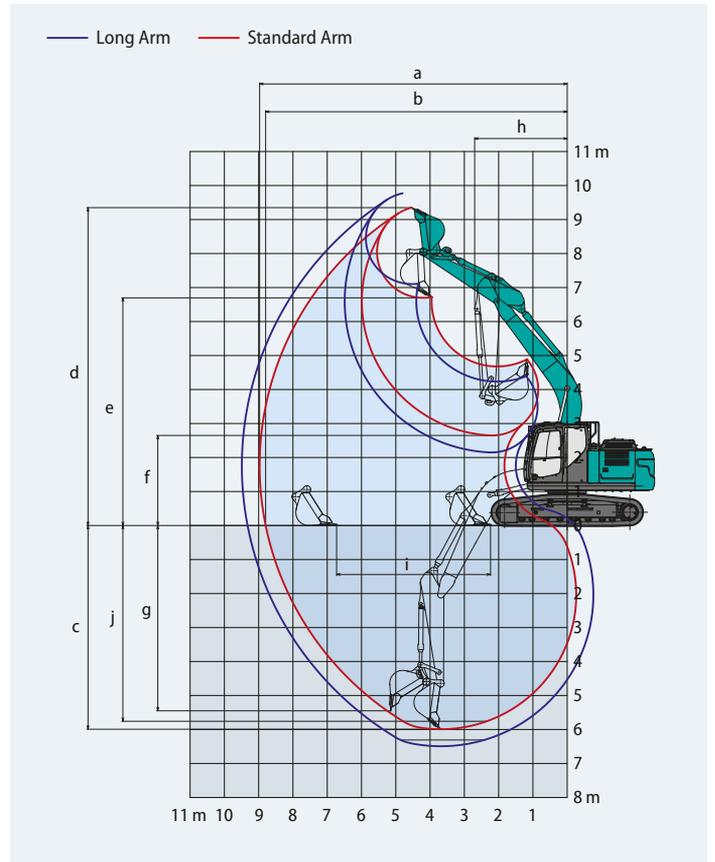
Boom		5.20 m	
Arm		Standard 2.60 m	Long 3.10 m
a-	Max. digging reach	8.97	9.49
b-	Max. digging reach at ground level	8.80	9.32
c-	Max. digging depth	5.99	6.49
d-	Max. digging height	9.35	9.77
e-	Max. dumping clearance	6.70	7.10
f-	Min. dumping clearance	2.65	2.15
g-	Max. vertical wall digging depth	5.45	5.95
h-	Min. swing radius	2.71	2.74
i-	Horizontal digging stroke at ground level	4.49	5.35
j-	Digging depth for 2.4 m (8') flat bottom	5.76	6.31
Bucket capacity ISO heaped m ³		0.63	0.63

Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 2.60 m	Long 3.10 m
Bucket digging force	114 126*	114 126*
Arm crowding force	82.3 90.6*	71.7 78.8*

*Power Boost engaged.



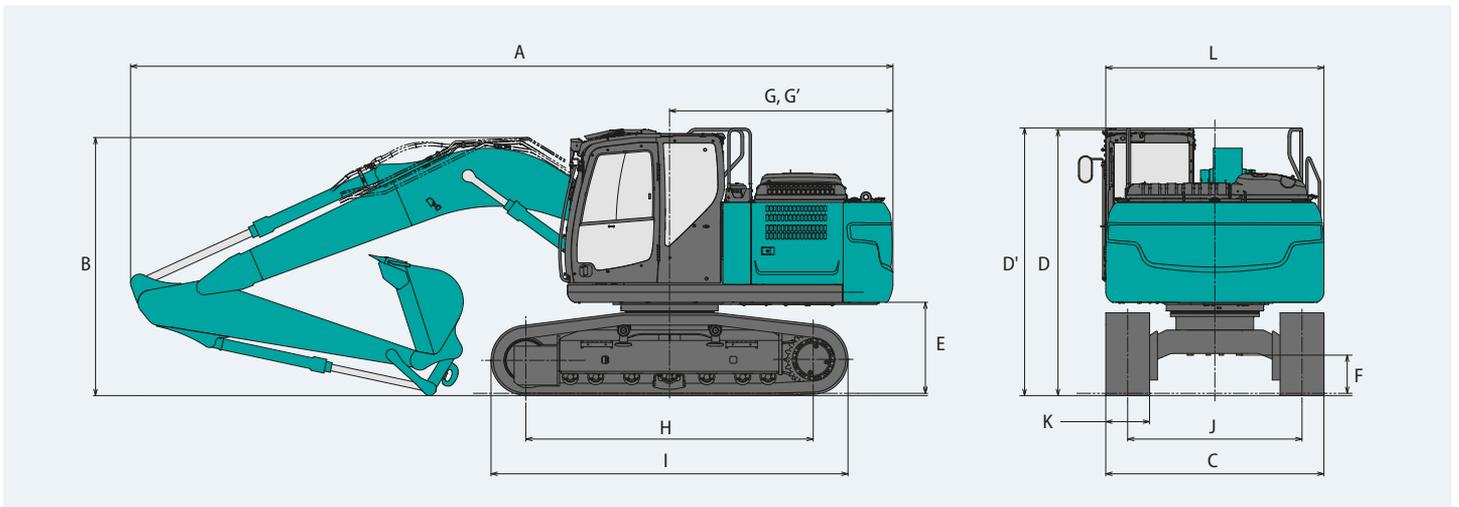
Dimensions

Arm length		Standard 2.60 m	Long 3.10 m
A	Overall length	8,700	8,710
B	Overall height (to top of boom)	2,970	3,100
C	Overall width of crawler	SK180LC	2,800
		SK180N	2,490
D	Overall height (to top of cab)	3,060	
D'	Overall height (to top of handrail)	3,080	
E	Ground clearance of rear end*	1,050	
F	Ground clearance*	440	
G	Tail swing radius	2,550	

Unit: mm

G'	Distance from centre of swing to rear end	2,550	
H	Tumbler distance	SK180LC	3,660
		SK180N	3,280
I	Overall length of crawler	SK180LC	4,450
		SK180N	4,070
J	Track gauge	SK180LC	2,200
		SK180N	1,990
K	Shoe width	SK180LC	600
		SK180N	500
L	Overall width of upperstructure	2,490	

*Without including height of shoe

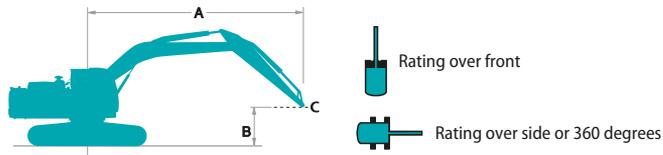


Operating weight & ground pressure

In standard trim, with standard boom, 2.60 m arm, and 0.63 m³ ISO heaped bucket.

Shaped			Triple grouser shoes (even height)				
Shoe width		mm	500	600	700	790	900
Overall width of crawler	SK180LC	mm	—	2,800	2,900	2,990	3,100
	SK180N	mm	2,490	2,590	2,690	2,780	—
Ground pressure	SK180LC	kPa	—	41	36	32	29
	SK180N	kPa	52	44	39	35	—
Operating weight	SK180LC	kg	—	19,700	20,100	20,400	20,700
	SK180N	kg	19,000	19,100	19,600	19,800	—

Lift capacities



A - Reach from swing centerline to arm top
 B - Arm top height above/below ground
 C - Lift point

Relief valve setting: 37.8 MPa {385 kgf/cm²}

SK180LC		Boom: 5.20 m		Arm: 2.60 m		Bucket: without		Counterweight: 3,700 kg		Shoe: 600 mm (Heavy Lift)				
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		Radius
7.5 m	kg					*4,320	*4,320					*3,100	*3,100	4.96 m
6.0 m	kg							*3,930	*3,930			*2,770	*2,770	6.32 m
4.5 m	kg					*5,430	*5,430	*4,750	4,190			*2,700	*2,700	7.11 m
3.0 m	kg			*10,260	*10,260	*6,600	6,150	*5,220	4,020	*2,930	2,860	*2,770	*2,770	7.52 m
1.5 m	kg					*7,670	5,750	*5,700	3,840	*3,840	2,790	*2,990	2,730	7.61 m
G.L.	kg			*7,330	*7,330	*8,100	5,520	*5,940	3,710			*3,400	2,790	7.40 m
-1.5 m	kg	*7,010	*7,010	*11,130	10,290	*7,790	5,460	*5,720	3,670			*4,220	3,080	6.86 m
-3.0 m	kg	*11,550	*11,550	*9,160	*9,160	*6,620	5,540					*4,670	3,840	5.89 m
-4.5 m	kg			*5,500	*5,500							*3,960	*3,960	4.21 m

SK180LC		Boom: 5.20 m		Arm: 3.10 m		Bucket: without		Counterweight: 3,700 kg		Shoe: 600 mm (Heavy Lift)				
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		Radius
7.5 m	kg											*2,260	*2,260	5.73 m
6.0 m	kg							*3,910	*3,910			*2,040	*2,040	6.93 m
4.5 m	kg					*4,870	*4,870	*4,370	4,240	*2,630	*2,630	*1,970	*1,970	7.66 m
3.0 m	kg			*8,960	*8,960	*6,070	*6,070	*4,900	4,050	*3,950	2,860	*2,000	*2,000	8.04 m
1.5 m	kg			*7,790	*7,790	*7,290	5,800	*5,460	3,840	*4,510	2,770	*2,130	*2,130	8.13 m
G.L.	kg			*7,550	*7,550	*7,960	5,500	*5,830	3,680	4,560	2,700	*2,370	*2,370	7.93 m
-1.5 m	kg	*6,000	*6,000	*10,460	10,150	*7,900	5,390	*5,790	3,610			*2,830	2,710	7.43 m
-3.0 m	kg	*9,530	*9,530	*10,060	*10,060	*7,060	5,430	*5,070	3,640			*3,790	3,260	6.55 m
-4.5 m	kg			*7,050	*7,050	*4,910	*4,910					*3,980	*3,980	5.09 m

SK180N		Boom: 5.20 m Arm: 2.60 m Bucket: without Counterweight: 3,700 kg Shoe: 500 mm (Heavy Lift)												
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		Radius
														
7.5 m	kg					*4,320	*4,320					*3,100	*3,100	4.96 m
6.0 m	kg							*3,930	3,760			*2,770	*2,770	6.32 m
4.5 m	kg					*5,430	*5,430	*4,750	3,680			*2,700	*2,700	7.11 m
3.0 m	kg			*10,260	9,740	*6,600	5,350	*5,220	3,520	*2,930	2,490	*2,770	2,480	7.52 m
1.5 m	kg					*7,670	4,960	5,450	3,340	*3,840	2,420	*2,990	2,370	7.61 m
G.L.	kg			*7,330	*7,330	*8,100	4,740	5,310	3,210			*3,400	2,410	7.40 m
-1.5 m	kg	*7,010	*7,010	*11,130	8,650	*7,790	4,690	5,260	3,170			*4,220	2,670	6.86 m
-3.0 m	kg	*11,550	*11,550	*9,160	8,840	*6,620	4,760					*4,670	3,330	5.89 m
-4.5 m	kg			*5,500	*5,500							*3,960	*3,960	4.21 m

SK180N		Boom: 5.20 m Arm: 3.10 m Bucket: without Counterweight: 3,700 kg Shoe: 500 mm (Heavy Lift)												
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		Radius
														
7.5 m	kg											*2,260	*2,260	5.73 m
6.0 m	kg							*3,910	3,820			*2,040	*2,040	6.93 m
4.5 m	kg					*4,870	*4,870	*4,370	3,720	*2,630	2,560	*1,970	*1,970	7.66 m
3.0 m	kg			*8,960	*8,960	*6,070	5,450	*4,900	3,540	*3,950	2,490	*2,000	*2,000	8.04 m
1.5 m	kg			*7,790	*7,790	*7,290	5,010	5,460	3,340	3,890	2,400	*2,130	2,120	8.13 m
G.L.	kg			*7,550	*7,550	*7,960	4,730	5,280	3,180	3,810	2,330	*2,370	2,150	7.93 m
-1.5 m	kg	*6,000	*6,000	*10,460	8,510	*7,900	4,620	5,200	3,110			*2,830	2,340	7.43 m
-3.0 m	kg	*9,530	*9,530	*10,060	8,650	*7,060	4,650	*5,070	3,140			*3,790	2,810	6.55 m
-4.5 m	kg			*7,050	*7,050	*4,910	4,850					*3,980	*3,980	5.09 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 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.

2 Piece Boom Specifications

Engine

Model	HINO J05EVA-KSSL
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger
No. of cylinders	4
Bore and stroke	112 mm × 130 mm
Displacement	5.123 L
Rated power output	95 kW / 2,000 min ⁻¹ (ISO 9249: with fan)
	100 kW / 2,000 min ⁻¹ (ISO 14396: without fan)
Max. torque	482 N-m / 1,600 min ⁻¹ (ISO 9249: with fan)
	502 N-m / 1,600 min ⁻¹ (ISO 14396: without fan)

Hydraulic system

Pump	
Type	Axial piston pumps + extra gear pump + pilot gear pump
Max. discharge flow	2 × 160 L/min, 1 × 42.6 L/min, 1 × 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	28.0 MPa {296 kgf/cm ² }
Control circuit	5.0 MPa {50 kgf/cm ² }
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	Oil disc brake, hydraulic operated automatically
Swing speed	12.6 min ⁻¹
Tail swing radius	2,550 mm
Min. front swing radius	2,070 mm
Swing torque	52.6 kN-m

Attachments

Backhoe bucket and combination

Use	Backhoe bucket	
	Normal digging	
Bucket capacity	ISO heaped	m ³
		0.63
Opening width	With side cutter	mm
	Without side cutter	mm
		1,075
		975
Bucket weight		kg
		500
Combination	2.60 m standard arm	⊙
	3.10 m long arm	⊙

⊙ Standard

Travel system

Travel motors	2 x axial-piston, two-step motors	
Travel brakes	Hydraulic brake per motor	
Parking brakes	Oil disc brake per motors	
Travel shoes	SK180LC	49 each side
	SK180N	45 each side
Travel speed	4.5 / 2.7 km/h	
Drawbar pulling force	230 kN (SAE)	
Gradeability	70% {35°}	

Cab & control

Cab	
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 pedals for travel	
Two hand levers for excavating and swing	
Electric rotary-type engine throttle	
Noise levels	
External	102 dB(A) (2000/14/EC)
Operator	69 dB (A) (ISO 6396:2008)
Vibration levels	
Hand/arm*	≤ 2.5 m/s ²
Body*	≤ 0.5 m/s ²

*For the risk assessment according to 2002/44/EC, refer to ISO/TR 25398: 2006.

Boom, arm & bucket

Boom cylinders	110 mm × 1,156 mm
Arm cylinder	125 mm × 1,285 mm
Bucket cylinder	105 mm × 1,025 mm
Jib cylinder	135 mm × 977 mm

Refilling capacities & lubrications

Fuel tank	280 L
Cooling system	19 L
Engine oil	20.5 L
Travel reduction gear	2 × 4.5 L
Swing reduction gear	1 × 2.7 L
Hydraulic oil tank	122 L tank oil level
	200 L hydraulic system
DEF/Urea tank	33.9 L

Working ranges

Unit: m

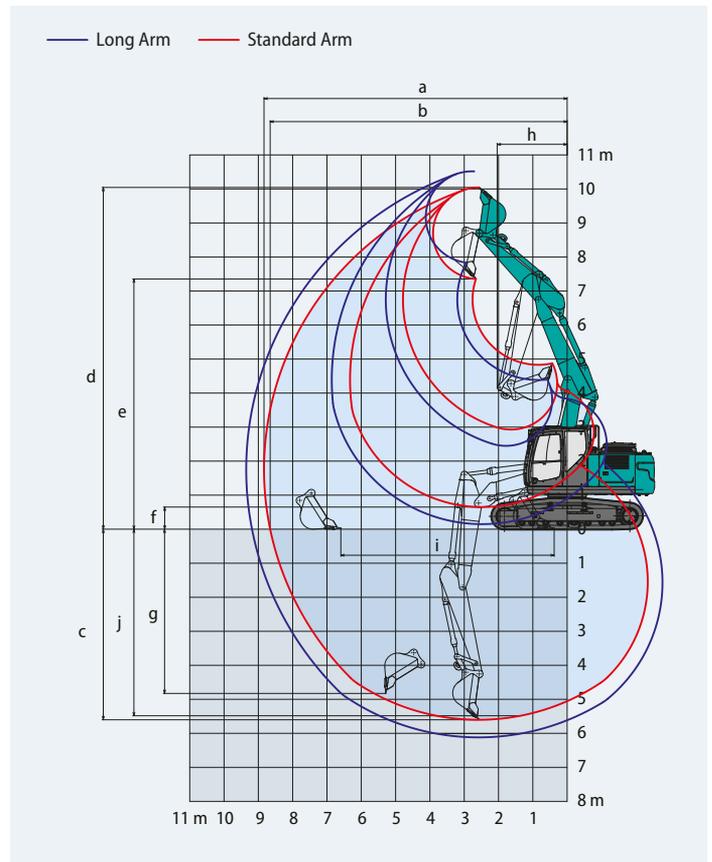
Boom		2.64 m + 2.51 m	
Arm		Standard 2.60 m	Long 3.10 m
Range			
a- Max. digging reach		8.83	9.35
b- Max. digging reach at ground level		8.66	9.18
c- Max. digging depth		5.60	6.12
d- Max. digging height		10.04	10.52
e- Max. dumping clearance		7.35	7.83
f- Min. dumping clearance		0.65	0.15
g- Max. vertical wall digging depth		4.83	5.38
h- Min. swing radius		2.07	2.21
i- Horizontal digging stroke at ground level		6.22	7.23
j- Digging depth for 2.4 m (8') flat bottom		5.48	6.01
Bucket capacity ISO heaped m ³		0.63	0.63

Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 2.60 m	Long 3.10 m
Bucket digging force	114 126*	114 126*
Arm crowding force	82.3 90.6*	71.7 78.8*

*Power Boost engaged.



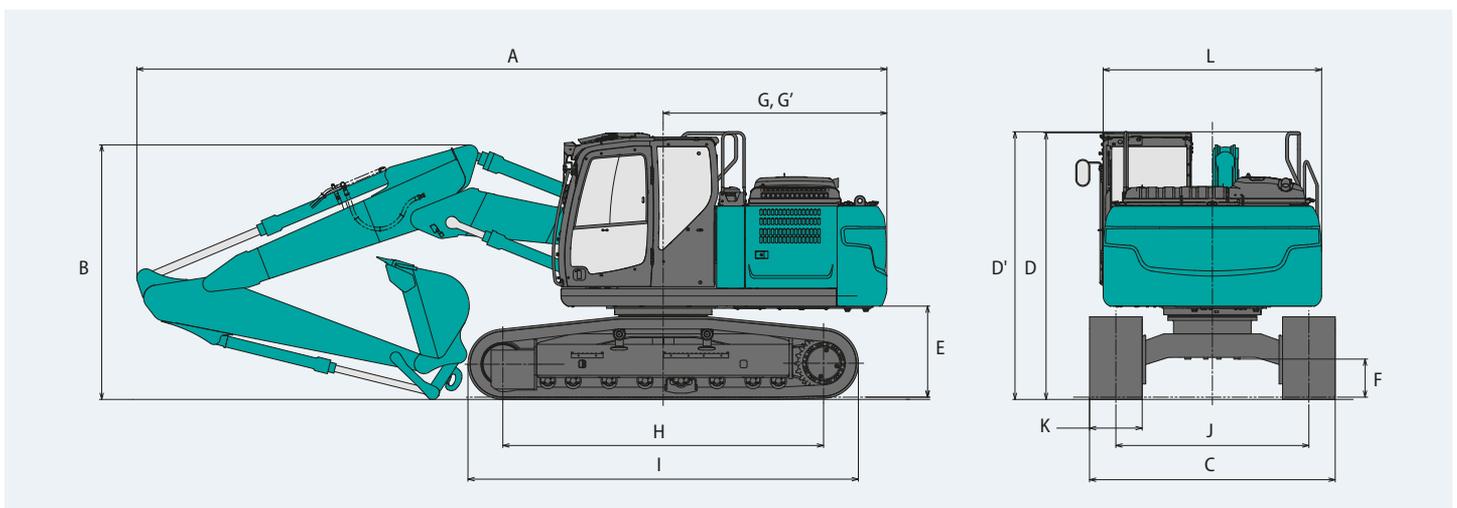
Dimensions

Arm length		Standard 2.60 m	Long 3.10 m
A	Overall length	8,550	8,560
B	Overall height (to top of boom)	2,930	3,090
C	Overall width of crawler	SK180LC	2,800
		SK180N	2,490
D	Overall height (to top of cab)	3,060	
D'	Overall height (to top of handrail)	3,080	
E	Ground clearance of rear end*	1,050	
F	Ground clearance*	440	
G	Tail swing radius	2,550	

Unit: mm

G'	Distance from centre of swing to rear end	2,550	
H	Tumbler distance	SK180LC	3,660
		SK180N	3,280
I	Overall length of crawler	SK180LC	4,450
		SK180N	4,070
J	Track gauge	SK180LC	2,200
		SK180N	1,990
K	Shoe width	SK180LC	600
		SK180N	500
L	Overall width of upperstructure	2,490	

*Without including height of shoe

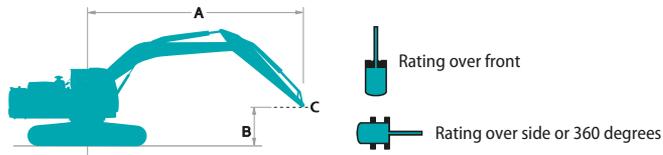


Operating weight & ground pressure

In standard trim, with 2 Piece Boom, 2.60 m arm, and 0.63 m³ ISO heaped bucket.

Shaped			Triple grouser shoes (even height)				
Shoe width		mm	500	600	700	790	900
Overall width of crawler	SK180LC	mm	—	2,800	2,900	2,990	3,100
	SK180N	mm	2,490	2,590	2,690	2,780	—
Ground pressure	SK180LC	kPa	—	42	37	33	29
	SK180N	kPa	54	45	40	35	—
Operating weight	SK180LC	kg	—	20,200	20,700	20,900	21,200
	SK180N	kg	19,500	19,700	20,100	20,300	—

Lift capacities



A - Reach from swing centerline to arm top
 B - Arm top height above/below ground
 C - Lift point
 Relief valve setting: 37.8 MPa {385 kgf/cm²}

SK180LC		2 Piece Boom	Arm: 2.60 m	Bucket: without	Counterweight: 3,700 kg	Shoe: 600 mm (Heavy Lift)						
B	A	1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		Radius
7.5 m	kg					*4,010	*4,010			*3,200	*3,200	4.75 m
6.0 m	kg					*5,410	*5,410	*3,500	*3,500	*2,830	*2,830	6.15 m
4.5 m	kg			*6,910	*6,910	*6,710	6,650	*3,990	*3,990	*2,730	*2,730	6.96 m
3.0 m	kg	*19,920	*19,920	*11,500	*11,500	*7,540	6,190	*3,680	*3,680	*2,790	*2,790	7.38 m
1.5 m	kg	*19,300	*19,300	*12,570	10,530	*8,080	5,730	*4,010	3,820	*2,990	2,770	7.48 m
G.L.	kg	*16,090	*16,090	*8,240	*8,240	*7,840	5,460	*5,080	3,680	*3,400	2,830	7.26 m
-1.5 m	kg			*8,770	*8,770	*6,700	5,390	*4,840	3,630	*3,870	3,150	6.71 m
-3.0 m	kg			*5,510	*5,510	*4,470	*4,470			*2,960	*2,960	5.72 m

SK180LC		2 Piece Boom	Arm: 3.10 m	Bucket: without	Counterweight: 3,700 kg	Shoe: 600 mm (Heavy Lift)								
B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		Radius
9.0 m	kg			*3,810	*3,810							*3,220	*3,220	3.27 m
7.5 m	kg					*4,040	*4,040					*2,340	*2,340	5.54 m
6.0 m	kg					*4,360	*4,360	*3,800	*3,800			*2,090	*2,090	6.78 m
4.5 m	kg			*4,600	*4,600	*5,060	*5,060	*3,140	*3,140	*2,110	*2,110	*2,000	*2,000	7.52 m
3.0 m	kg	*17,700	*17,700	*10,560	*10,560	*7,150	6,300	*2,810	*2,810	*3,630	2,850	*2,030	*2,030	7.91 m
1.5 m	kg	*26,860	*26,860	*9,580	*9,580	*7,890	5,790	*3,040	*3,040	*3,930	2,750	*2,140	*2,140	8.00 m
G.L.	kg	*18,600	*18,600	*8,420	*8,420	*7,930	5,450	*4,000	3,650	*4,210	2,670	*2,380	*2,380	7.80 m
-1.5 m	kg	*6,280	*6,280	*9,870	*9,870	*7,110	5,320	*5,170	3,560			*2,840	2,760	7.28 m
-3.0 m	kg			*6,920	*6,920	*5,290	*5,290	*3,560	*3,560			*2,950	*2,950	6.38 m
-4.5 m	kg	*13,470	*13,470	*6,700	*6,700							*1,300	*1,300	4.87 m

SK180N		2 Piece Boom Arm: 2.60 m Bucket: without Counterweight: 3,700 kg Shoe: 500 mm (Heavy Lift)										
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		Radius
												
7.5 m	kg					*4,010	*4,010			*3,200	*3,200	4.75 m
6.0 m	kg					*5,410	*5,410	*3,500	*3,500	*2,830	*2,830	6.15 m
4.5 m	kg			*6,910	*6,910	*6,710	5,830	*3,990	3,690	*2,730	*2,730	6.96 m
3.0 m	kg	*19,920	*19,920	*11,500	9,870	*7,540	5,380	*3,680	3,510	*2,790	2,520	7.38 m
1.5 m	kg	*19,300	*19,300	*12,570	8,870	*8,080	4,940	*4,010	3,310	*2,990	2,400	7.48 m
G.L.	kg	*16,090	*16,090	*8,240	*8,240	*7,840	4,680	*5,080	3,170	*3,400	2,450	7.26 m
-1.5 m	kg			*8,770	8,480	*6,700	4,610	*4,840	3,130	*3,870	2,710	6.71 m
-3.0 m	kg			*5,510	*5,510	*4,470	*4,470			*2,960	*2,960	5.72 m

SK180N		2 Piece Boom Arm: 3.10 m Bucket: without Counterweight: 3,700 kg Shoe: 500 mm (Heavy Lift)												
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		Radius
														
9.0 m	kg			*3,810	*3,810							*3,220	*3,220	3.27 m
7.5 m	kg					*4,040	*4,040					*2,340	*2,340	5.54 m
6.0 m	kg					*4,360	*4,360	*3,800	*3,800			*2,090	*2,090	6.78 m
4.5 m	kg			*4,600	*4,600	*5,060	*5,060	*3,140	*3,140	*2,110	*2,110	*2,000	*2,000	7.52 m
3.0 m	kg	*17,700	*17,700	*10,560	10,320	*7,150	5,490	*2,810	*2,810	*3,630	2,470	*2,030	*2,030	7.91 m
1.5 m	kg	*26,860	*26,860	*9,580	8,950	*7,890	5,000	*3,040	*3,040	3,900	2,370	*2,140	2,140	8.00 m
G.L.	kg	*18,600	*18,600	*8,420	8,410	*7,930	4,670	*4,000	3,140	3,820	2,300	*2,380	2,170	7.80 m
-1.5 m	kg	*6,280	*6,280	*9,870	8,340	*7,110	4,540	*5,170	3,060			*2,840	2,370	7.28 m
-3.0 m	kg			*6,920	*6,920	*5,290	4,580	*3,560	3,110			*2,950	2,880	6.38 m
-4.5 m	kg	*13,470	*13,470	*6,700	*6,700							*1,300	*1,300	4.87 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. Arm top defined as lift point.
4. 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.
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 and Optional Equipment

● = Std ○ = Opt — = N/A

Category	Description	SK180(N)LC-11	
		Mono boom / 2 Piece Boom	
		LC	N
Engine	Hino J05EVA-KSSL	●	
	Exhaust DOC DPF SCR system	●	
	Alternator 24 V / 60 A	●	
	Starter motor 24 V / 5 kW	●	
	Batteries 2 x 12 V (92 Ah)	●	
	Fan suction type cooling system	●	
	Auto deceleration function	●	
	Auto idle stop	●	
Hydraulic system	3 work modes H, S, Eco	●	
	Power boost (37.8 MPa {385 kgf/cm ² })	●	
	Heavy lift mode	●	
	Pressure release function	●	
	Independent travel function	●	
	Auto warm up system	●	
	Proportional Hand Control (for E&N&B piping)	●	
	Hydraulic oil VG32	●	
	Hydraulic oil VG46	○	
	Hydraulic oil VG68	○	
Piping	E & N&B piping	●	
	QH piping	●	
Cabin	Air suspension seat with heating	●	
	10 inch colour monitor	●	
	LED door light	●	
	Air-conditioner	●	
	DAB+ radio (FM/AM & AUX & USB & Bluetooth* & hands free telephone)	●	
	Harness for CAB four lights and CAB yellow flasher	●	
	Parallel wiper	●	
	12 V power supply	●	
	Rain visor	○	
	Sun screen	○	
Lights	LED work lights ; 2 on Boom & 1 on upper frame	●	
	LED work lights ; 2 on Cab top front	○	
Working equipment	Standard Boom (5.20 m)	●	
	2 Piece Boom	○	
	Standard HD arm (2.60 m) with rock guard	●	
	Long HD arm (3.10 m) with rock guard	○	
Counterweight	OHK hook	●	
	Standard C/W (TTL 3,700 kg)	●	
Undercarriage	500 mm steel shoe	—	●
	600 mm steel shoe	●	○
	700 mm steel shoe		○
	790 mm steel shoe		○
	900 mm steel shoe	○	—
	Track guide (one per side)	●	
	Additional track guides (two additional per side)	○	
Safety	Lower frame guard	●	
	Engine emergency stop switch	●	
	Pump emergency mode (KPSS release switch)	●	
	Emergency accel dial	●	
	Emergency manual valve for lowering attachment	●	
	Overload alarm	●	
	Safety valve for boom & 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	○	
Others	Refueling pump	●	
	Harness for engine room light	●	
	Ral color	○	
	KOMEXS	●	

The air conditioning system on this machine contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0.9 kg (CO₂ equivalent 1.3 t). Note: Bluetooth is a registered trademark of the Bluetooth SIG Inc.

SK180_{LC} **SK180_N**
SK180LC-11 SK180N-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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