



SK180LC SK180N

KOBELLO

Bucket capacity:
 0.63 m³

Engine power:
 100 kW / 2,000 min⁻¹

Operating weight:
 19,000 – 21,200 kg

SK180LC

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Complies with the EU Stage V exhaust emission regulation



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.

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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.

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.



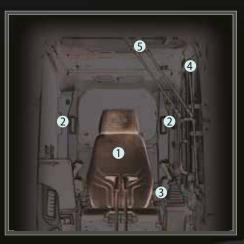
New Hydraulic Control

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





1



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)







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.

- III SETTING MENU

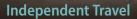






Screen display linked with the jog dial operation

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.



VIIII IIIII

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 EU Stage V compliant engine

SK 100.

Equipped with the new EU Stage V compliant engine, the SK180LC/SK180N feature 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

ROBELCO

Lift capacity **8,10**0kg

(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.



KOBELCO

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)



Right side

180 180 er



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.



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.

OBEICO



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.

KOMEXS KOBELCO MONITORING EXCAVATOR SYSTEM



Direct Access to Operational Status

Location Data

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





11 Apr. 201 Sea Type of Op \$69 His 100 % 72.2 Hrs 43 % ing Hrs 18.3 Hrs 11% Idle Hrs 15.9 Hrs 0.54 62.5 Hrs Opt Att Hrs 37 % 0.% **Crane Mode** 0 Hrs

Work data

Operating Hours

11 Apr, 2015

Date / Time

11 Apr (Set) 12 Apr (Sun) 13 Apr (Mon)

14 Apr (Tue)

- 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.

10 May, 20

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

Fuel consumption

Fuel Consumption Data

indicate improvements in fuel consumption.

Data on fuel consumption and idling times can be used to

sumption

24.51

1489.7 L 1514.2 L

0.0 L

Daily report

Maintenance Data and Warning Alerts

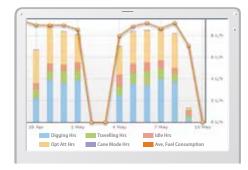
Machine Maintenance Data

- 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.

Serial No. Hour Model Meter Engine Oil SK135SRLC-3/SK1405RL YH07-09721 734 Hr 434 0.38/0.35 SK135SRLC-YH07-09789 73 Hr 429 3/SK1405RL 0.38/0.35 YQ13-10454 SK210LC-9 960 Hr 58 0.8/0.7 YQ13-10481 SK210LC-9 549.Hr 498 0.8/0.7 SK75SR-YT08-30374

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

Warning Alerts

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

Maintenance

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.

Setting Condition	
Setting Condition Change	
Start time 20 • : 00 •	
Release time 07 💌 : 00 💌	1
No Working Whole Day	
Mon Tue Wed Thu Fri Sat Sun	
1 1 1 1 1 1 1 1 1 1	
	Clear

Area Alarm

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

	ing Condition			
	Around the current (latest) location		1[Km	
10	Input Latitude and I	Longitude		
	Latitude1			
	Longitude1			
	Latitude2			
	Longitude2			
	Мар	Clear		
30	Release			

Engine start alarm outside prescribed work time

Alarm for outside of reset area

Specifications

🔵 Engine

Model	HINO JO5EVA-KSSL	
Туре	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, complies with EU Stage V exhaust emission regulation	
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)	
Mar. 6	482 N · m / 1,600 min ⁻¹ (ISO 9249: with fan)	
Max. torque	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	
Ou an in a cui deb	With side cutter mm	1,075	
Opening width	Without side cutter mm	975	
Bucket weight	kg	g 500	
Combination	2.60 m standard arm	0	
	3.10 m long arm	0	

◎ Standard



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° }

P 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*	\leq 2.5 m/s ²	
Body*	$\leq 0.5 \text{ m/s}^2$	

*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

Boom		Unit: m .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)

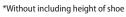
Digging Force (ISO 6015)								
Arm length	Standard 2.60 m	Long 3.10 m						
Bucket digging force	114 126*	114 126*						
Arm crowding force	82.3 90.6*	71.7 78.8*						

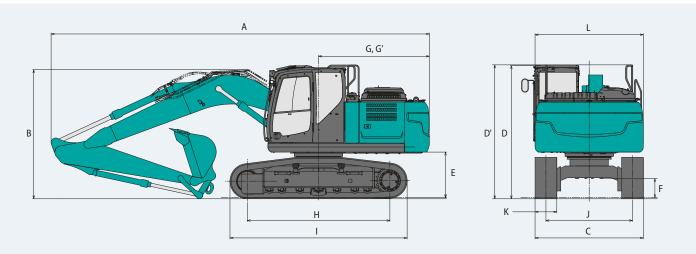
*Power Boost engaged.

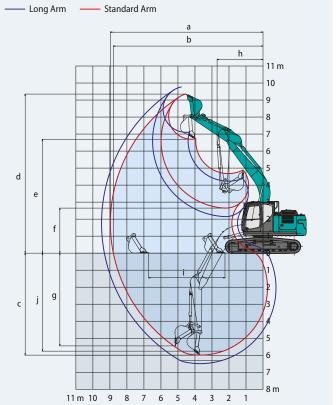
Dimensions

Ar	m length		Standard 2.60 m	Long 3.10 m			
А	Overall length		8,700 8,710				
В	Overall height (to top of boom)	2,970	3,100				
c	Overall width of crawler	SK180LC	2,800				
C	Overall width of crawler	2,490					
D	Overall height (to top of cab)		3,060				
D'	Overall height (to top of handrai	I)	3,080				
Е	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 r	ear end	2,550
н	Tumbler distance	SK180LC	3,660
п		SK180N	3,280
	Quarall longth of gravilar	SK180LC	4,450
	Overall length of crawler	SK180N	4,070
J	Track gauge	SK180LC	2,200
J	Track gauge	SK180N	1,990
К	Shoe width	SK180LC	600
ĸ	Shoe width	SK180N	500
L	Overall width of upperstructure	2,490	





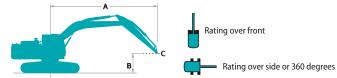


Operating weight & ground pressure

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	—				
Current and a second	SK180LC	kPa	—	41	36	32	29				
Ground pressure	SK180N	kPa	52	44	39	35	_				
0	SK180LC	kg	_	19,700	20,100	20,400	20,700				
Operating weight	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: 2.6	0 m Bucket	without C	Counterweigh	it: 3,700 kg	Shoe: 600 m	m (Heavy Lift)				
	А	1.5	m	3.0	m	4.5	m	6.0) m	7.5	m	At max	. reach	
В		L	,	L	—	ł	—	ł	4 -	ł		ł		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: 3.1	0 m Bucket	: without C	Counterweigh	nt: 3,700 kg	Shoe: 600 m	m (Heavy Lift	:)				
		1.5	m	3.0	m	4.5	i m	6.0 m		7.5 m		At max. reach		
В		ł	#	H	,	L	,	ł	,	L	#	ł	#	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	l	Boom: 5.20	m Arm: 2.6	0 m Bucket	without C	Counterweight: 3,700 kg Shoe: 500 mm (Heavy Lift)								
\searrow		1.5	ōm	3.0	m	4.5	4.5 m		6.0 m		7.5 m		. reach	
В		ł	,	L	,	L	#	ł	,	L	#	ł	#	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	SK180N Boom: 5.20 m Arm: 3.10					Bucket: without Counterweight: 3,700 kg Shoe: 500 mm (Heavy Lift)									
		1.5	i m	3.0	m	4.5	m	6.0 m		7.5 m		At max. reach			
		ł	,	L		L	,	L	¢ -	ł	,	ł	,	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:

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.

- 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
Туре	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, complies with EU Stage V exhaust emission regulation
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)
Rated power output	100 kW / 2,000 min ⁻¹ (ISO 14396: without fan)
Max torque	482 N·m / 1,600 min ⁻¹ (ISO 9249: with fan)
Max. torque	502 N·m / 1,600 min ⁻¹ (ISO 14396: without fan)

🔁 Hydraulic system

Pump	
Туре	Axial piston pumps + extra gear pump + pilot gear pump
Max. discharge flow	2×160 L/min, 1 \times 42.6 L/min, 1 \times 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

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
Travel shoes	SK180N	45 each side
Travel speed		4.5 / 2.7 km/h
Drawbar pulling fo	rce	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	Control								
Two hand levers and two pedals	Two hand levers and two pedals for travel								
Two hand levers for excavating a	and swing								
Electric rotary-type engine throt	tle								
Noise levels									
External	102 dB(A) (2000/14/EC)								
Operator	69 dB (A) (ISO 6396:2008)								
Vibration levels									
Hand/arm* $\leq 2.5 \text{ m/s}^2$									
Body*	$\leq 0.5 \text{ m/s}^2$								
×E									

*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					
I hudway li a ail ta alu	122 L tank oil level					
Hydraulic oil tank	200 L hydraulic system					
DEF/Urea tank	33.9 L					

Attachments

Backhoe bucket and combination

llee		Backhoe bucket
Use		Normal digging
Bucket capacity	ISO heaped m ³	0.63
Opening width	With side cutter mm	1,075
Opening width	Without side cutter mm	975
Bucket weight	kg	500
Combination	2.60 m standard arm	0
Compination	3.10 m long arm	0

 \bigcirc Standard



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h

– Long Arm – Standard Arm

Working ranges

		Unit: m
Boom	2.64 r	n + 2.51 m
Arm Range	Standard 2.60 m	Long 3.10 m
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)

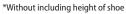
Digging Force (ISO 6015)		Unit: kN
Arm length	Standard 2.60 m	Long 3.10 m
Bucket digging force	114 126*	114 126*
Arm crowding force	82.3 90.6*	71.7 78.8*

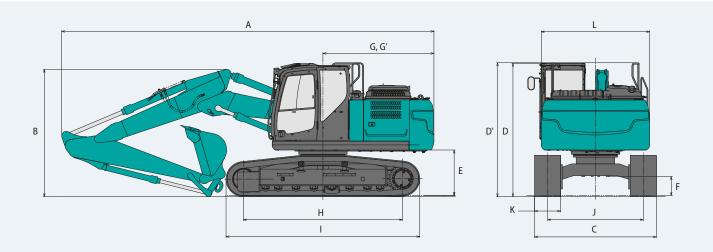
*Power Boost engaged.

Dimensions

Ar	m length		Standard 2.60 m	Long 3.10 m			
А	Overall length		8,550	8,560			
В	Overall height (to top of boom)		2,930	3,090			
c	Overall width of crawler	SK180LC	2,800				
C	Overall width of crawler	SK180N	2,490				
D	Overall height (to top of cab)		3,060				
D'	Overall height (to top of handrai	il)	3,080				
Е	Ground clearance of rear end*		1,050				
F	Ground clearance*	440					
G	Tail swing radius		2,5	50			

			Unit: mm						
G'	Distance from centre of swing to r	2,550							
н	Tumbler distance	SK180LC	3,660						
п	l'umpler distance	SK180N	3,280						
	Quarall langth of grounder	SK180LC	4,450						
1	Overall length of crawler	SK180N	4,070						
	Track asuas	SK180LC	2,200						
J	Track gauge	SK180N	1,990						
к	Shoe width	SK180LC	600						
ĸ	Shoe width	500							
L	Overall width of upperstructure	2,490							





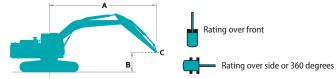
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Operating weight & ground pressure

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					
Current and a second	SK180LC	kPa	—	42	37	33	29				
Ground pressure	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 n			Arm: 2.60 m	Bucket: witho	ut Counterwe									
	А	1.5	5 m	3.	0 m	4.5	im	6.0	6.0 m		At max. reach			
В		Ļ	#	L	#	L	#	L	#	L	#	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 Boo	m Arm: 3.1	0 m Bucket	Bucket: without Counterweight: 3,700 kg Shoe: 600 mm (Heavy Lift)									
		1.5	m	3.0	m	4.5	m	6.0 m		7.5 m		At max. reach		
в		H	#	L	#	L	#	L	,	ł	#	ł		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)												
\searrow		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach				
В		L	₫-	ł	#	L	#	ł	#	L	#	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)												
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
В		ł	,	ł	#	ł	,	ł	¢ -	ł	#	ł	#	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.

- 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

Category	Description	● = Std ○ = Opt — = SK180(N)LC-11 Mono boom / 2 Piece Boom
		LC N
Engine	Hino J05EVA-KSSL (EU Stage V compliant)	•
	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	•
lydraulic 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	0
	Hydraulic oil VG68	0
iping	E & N&B piping	•
	QH piping	•
abin	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	0
	Sun screen	0
.ights	LED work lights ; 2 on Boom & 1 on upper frame	•
	LED work lights ; 2 on Cab top front	0
Working equipment	Standard Boom (5.20 m)	•
	2 Piece Boom	0
	Standard HD arm (2.60 m) with rock guard	
	Long HD arm (3.10 m) with rock guard	0
	OHK hook	•
Counterweight	Standard C/W (TTL 3,700 kg)	•
Indercarriage	500 mm steel shoe	_ ●
	600 mm steel shoe	• •
	700 mm steel shoe	0
	790 mm steel shoe	0
	900 mm steel shoe	0 -
	Track guide (one per side)	•
	Additional track guides (two additional per side)	0
	Lower frame guard	•
afety	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)	O
	Eagle-eye view camera (Rear, Right, Left)	
	Seatbelt indicator on display	
	Travel alarm	
thers	Refueling pump	
	Harness for engine room light	
	Ral color	

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.







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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