

KOBELCO

SK180LC-11E/SK180N-11E

Performance  Design

SK180_{LC} SK180_N

- Bucket capacity:
0.63 m³
- Engine power:
100 kW / 2,000 min⁻¹
- Operating weight:
19,200 – 21,500 kg



Complies with the EU Stage V
exhaust emission regulation

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.



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

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.

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.

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.

Parallel wipers secure a wide field of view



KOBELCO



04:33



SETTING MENU



PICTURE OF CAMERA



CLOCK SETTING



SCREEN BRIGHTNESS



MAINTENANCE



CONSUMPTION



LANGUAGE SELECTION



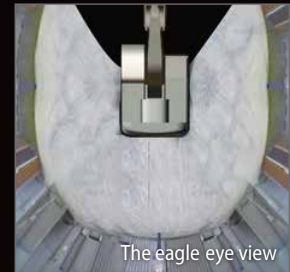
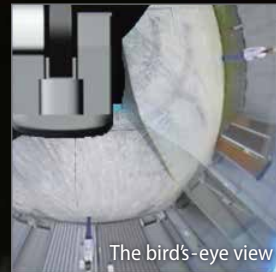
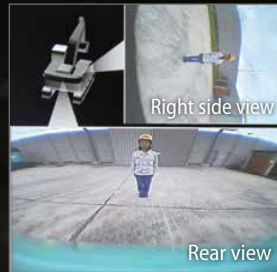
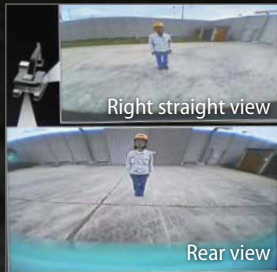
PRESSURE RELEASE



SAFETY ON FULL DISPLAY

Standard 3 Sides Safety Camera System

Our high-resolution, large display shows right, left and rear side cameras together. Multiple display allows the operator to customize viewing needs to enhance operator awareness and jobsite safety.



Large 10-Inch Color Monitor

The easy-to-operate menu screen and recognizable icons assist the operator to select the most important information needed to ensure jobsite safety and machine control.



Dial in the Right Information

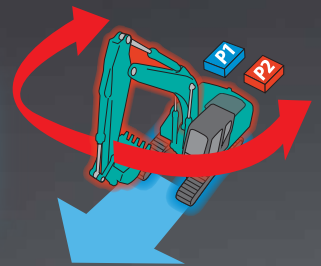
Simply turn the jog dial to the right or left to select an operational feature, then press the dial to confirm selection.





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

Higher Efficiency, plus a EU Stage V Compliant Engine

The new SK180LC/SK180N is equipped with a Yanmar Stage V compliant engine, which has a higher torque value. Superior balance between engine output and torque contributes to more efficient performance than the previous models. In addition, the DPF replacement interval has been extended.

Model: YANMAR 4TN107FHT

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

8,100 kg

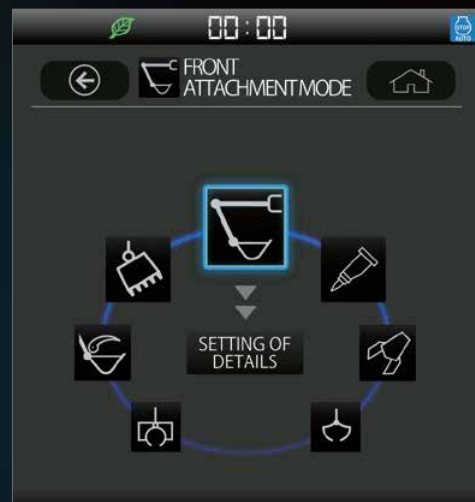
(Reach: 4.50 m Boom: 5.20 m Arm: 2.60 m Bucket: Without
Counterweight: 3,700 kg Shoe: 600 mm <Heavy Lift > At Ground Level)



GREATER MULTI-FUNCTION CAPABILITIES

Attachment mode

The flow rate and working pressure 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.



EASY MAINTENANCE



Standard Overhead Top Guard Level II

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



Two-stage air filter



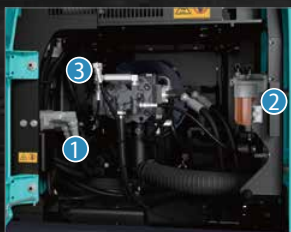
DEF/AdBlue® Tank

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



Left side (radiator and cooling system elements)

Laid out for easy access to radiator and cooling system.



Right Side (Ground Level Maintenance)

Hydraulic pump and engine filter compartment.



Engine Oil Filter



Pre-Filter with Integrated Water Separator



Fuel Filter

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

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 (Option)



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

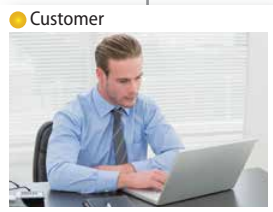


Smartphone holder

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



KOBELCO MONITORING EXCAVATOR SYSTEM



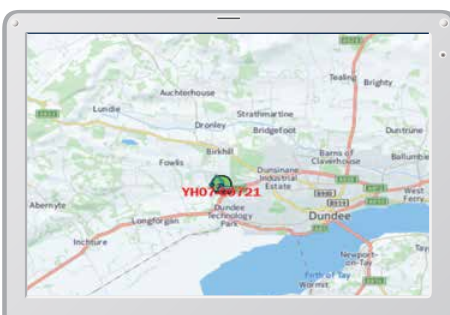
Remote Monitoring for Peace of Mind

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.

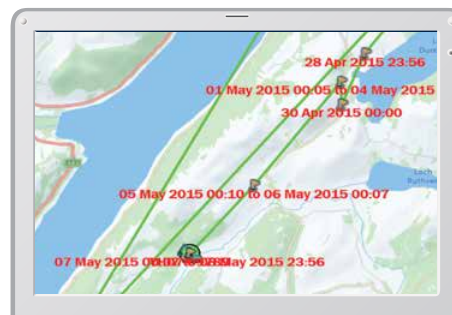
Direct Access to Operational Status

Location Data

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



Latest location



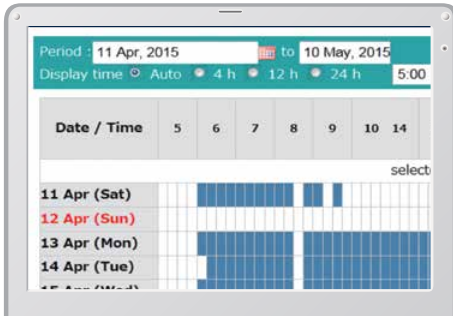
Location records

| Period - 11 Apr, 2015 | | to 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 Att 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

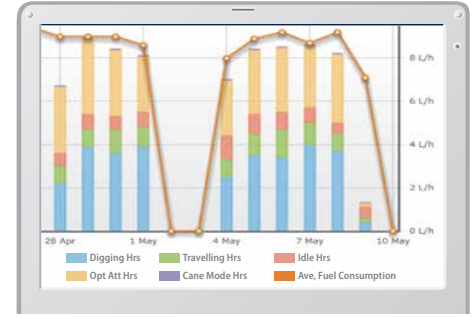
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

| 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 |
|----------------------|----------------------------|------------|------------|
| SK135SRLC-3/SK140SRL | YH07-09721 | 734 Hr | 434 |
| SK135SRLC-3/SK140SRL | YH07-09789 | 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 | YANMAR 4TN107FHT |
|--------------------|--|
| Type | Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler, EU Stage V compliant |
| No. of cylinders | 4 |
| Bore and stroke | 107 mm × 127 mm |
| Displacement | 4.567 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 | 588 N·m / 1,500 min ⁻¹ (ISO 9249: with fan) |
| | 602 N·m / 1,500 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 × 41.2 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 {286 kgf/cm ² } |
| Control circuit | 5.0 MPa {51 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 |
| Swing torque | 52.6 kNm |

Attachments

Backhoe bucket and combination

| Use | Backhoe bucket | |
|-----------------|---------------------|----------------|
| | Normal digging | |
| Bucket capacity | ISO heaped | m ³ |
| Opening width | With side cutter | mm |
| | Without side cutter | mm |
| Bucket weight | | kg |
| 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) |
| Noise levels/Operator | 68 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 |

*For 2 Piece Boom only

Refilling capacities & lubrications

| | |
|-----------------------|------------------------|
| Fuel tank | 280 L |
| Cooling system | 22.7 L |
| Engine oil | 22 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: mm

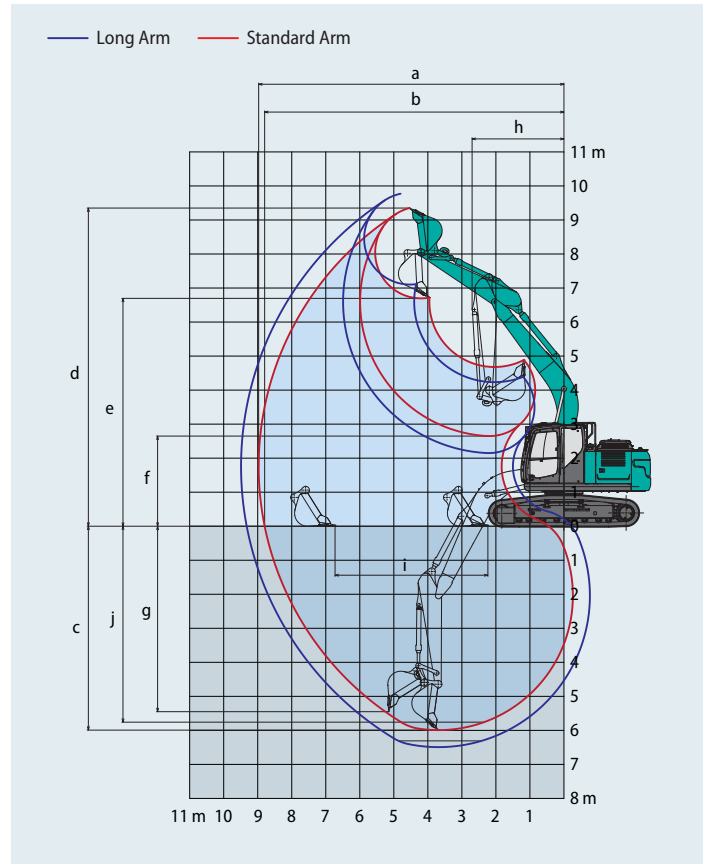
| Range | Arm | 5.20 m | |
|--|-----|-----------------|-------------|
| | | Standard 2.60 m | Long 3.10 m |
| a- Max. digging reach | | 8,970 | 9,490 |
| b- Max. digging reach at ground level | | 8,800 | 9,320 |
| c- Max. digging depth | | 5,990 | 6,490 |
| d- Max. digging height | | 9,350 | 9,770 |
| e- Max. dumping clearance | | 6,700 | 7,100 |
| f- Min. dumping clearance | | 2,650 | 2,150 |
| g- Max. vertical wall digging depth | | 5,450 | 5,950 |
| h- Min. swing radius | | 2,710 | 2,740 |
| i- Horizontal digging stroke at ground level | | 4,490 | 5,350 |
| j- Digging depth for 2.4 m (8') flat bottom | | 5,760 | 6,310 |
| 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.



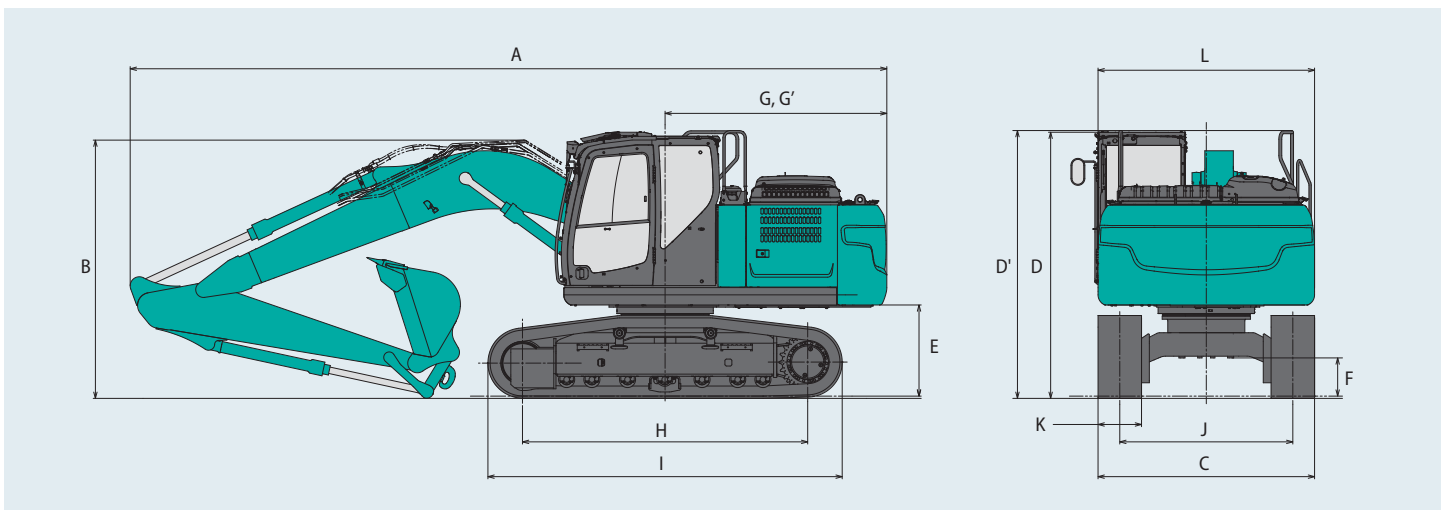
Dimensions

| 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 lug

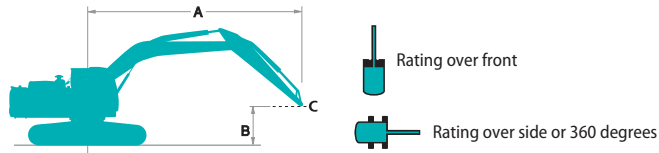


Operating weight & ground pressure

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 | 33 | 29 |
| | SK180N | kPa | 53 | 45 | 39 | 35 | — |
| Operating weight | SK180LC | kg | — | 19,900 | 20,400 | 20,600 | 20,900 |
| | SK180N | kg | 19,200 | 19,400 | 19,800 | 20,000 | — |













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.

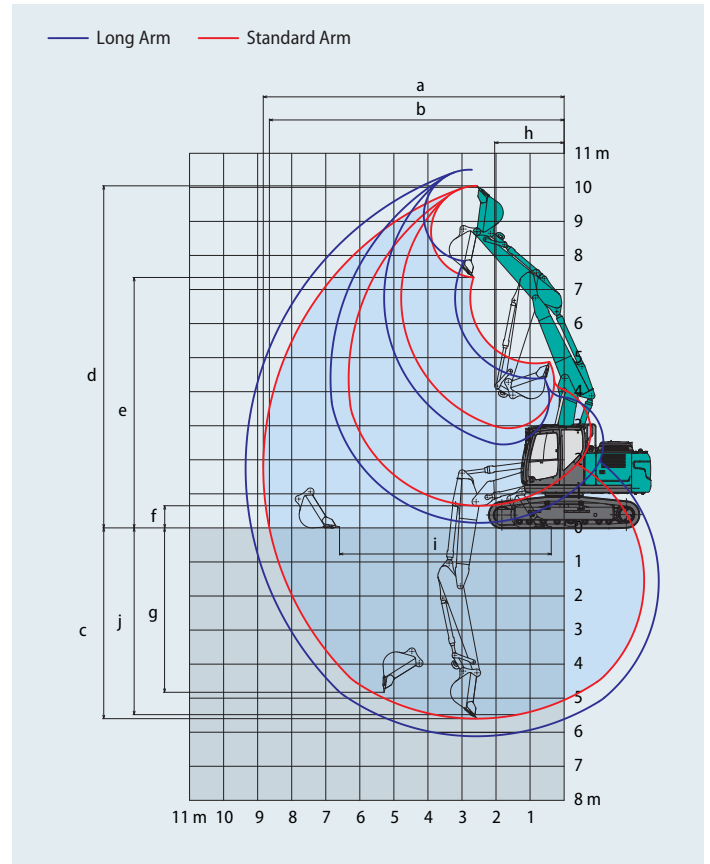
- Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

2 Piece Boom Specifications

Working ranges

Unit: mm

| Boom | | 2 Piece Boom | |
|--|--|-----------------|-------------|
| Arm | | Standard 2.60 m | Long 3.10 m |
| Range | | | |
| a- Max. digging reach | | 8,830 | 9,350 |
| b- Max. digging reach at ground level | | 8,660 | 9,180 |
| c- Max. digging depth | | 5,600 | 6,120 |
| d- Max. digging height | | 10,040 | 10,520 |
| e- Max. dumping clearance | | 7,350 | 7,830 |
| f- Min. dumping clearance | | 650 | 150 |
| g- Max. vertical wall digging depth | | 4,830 | 5,380 |
| h- Min. swing radius | | 2,070 | 2,210 |
| i- Horizontal digging stroke at ground level | | 6,220 | 7,230 |
| j- Digging depth for 2.4 m (8') flat bottom | | 5,480 | 6,010 |
| 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.

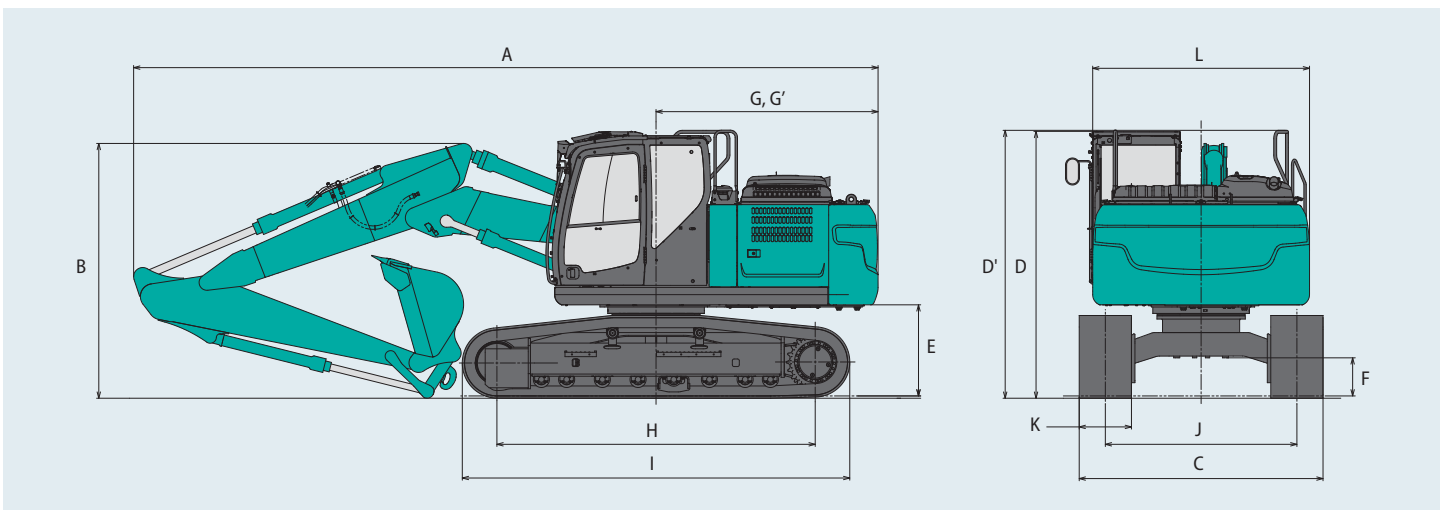
Dimensions

Unit: mm

| 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 | |

| | | | |
|----|---|---------|-------|
| 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 | 600 | |
| L | Overall width of upperstructure | SK180LC | 500 |
| | | SK180N | 500 |

*Without including height of shoe lug

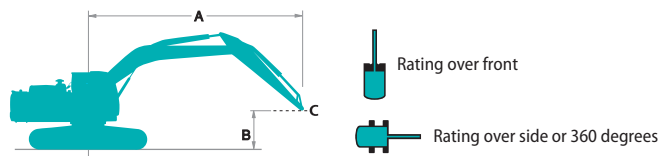


Operating weight & ground pressure

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 | 30 |
| | SK180N | kPa | 54 | 46 | 40 | 36 | — |
| Operating weight | SK180LC | kg | — | 20,400 | 20,900 | 21,100 | 21,400 |
| | SK180N | kg | 19,700 | 19,900 | 20,300 | 20,500 | — |

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) | | | |
|---------|----|--------------|---------|-------------|---------|-----------------|--------|-------------------------|--------|---------------------------|--------|--------|--------|
| A \ B | | 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) | | | | |
|---------|----|--------------|---------|-------------|---------|-----------------|--------|-------------------------|--------|---------------------------|--------|---------------|--------|--------|
| A \ B | | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | At max. reach | | |
| | | | | | | | | | | | | | | |
| 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 |

Lift capacities

| 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 | | |
| | |  |  |  |  |  |  |  |  |  |  |  |  | |
| 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:

- 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.

Standard and Optional Equipment

SK180_{LC}
SK180LC-11E

SK180_N
SK180N-11E

● = Std ○ = Opt — = N/A

| Category | Description | SK180LC/N-11E | |
|-------------------|--|--------------------------|---|
| | | Mono boom / 2 Piece Boom | |
| | | LC | N |
| Engine | YANMAR 4TN107FHT (EU Stage V compliant) | ● | ● |
| | Exhaust DOC DPF SCR system | ● | ● |
| | Alternator 24 V / 80 A | ● | ● |
| | Starter motor 24 V / 5 kW | ● | ● |
| | Batteries 2 x 12 V (105 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 outlet | ● | ● |
| | Rain visor | ○ | ○ |
| | Sun screen | ○ | ○ |
| Lights | LED work lights ; 2 on Boom, 1 on upper frame, 2 on rear counterweight | ● | ● |
| | LED work lights ; 2 on Cab top front | ○ | ○ |
| Working equipment | Standard Boom (5.20 m) | ● | ● |
| | 2 Piece Boom | ○ | ○ |
| | Standard arm (2.60 m) with rock guard | ● | ● |
| | Long arm (3.10 m) with rock guard | ○ | ○ |
| | OHK hook | ● | ● |
| Counterweight | 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) | ○ | ○ |
| | Lower frame guard | ● | ● |
| Safety | 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}
SK180LC-11E

SK180_N
SK180N-11E

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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