

SK140_{LC}
SK140LC-11

KOBELCO

Performance  Design

STANDARD EQUIPMENT

ENGINE

- Engine, ISUZU GG-4JJ1XKSK-02,
Direct injection type, with turbocharger
- Auto Idle Stop
- Automatic engine deceleration
- Batteries (2 x 12 V - 80 Ah)
- Starting motor (24 V - 4.0 kW), 50 amp alternator
- Engine oil pan drain cock
- Double element air cleaner

CONTROL

- Working mode selector
(H-mode, S-mode and ECO-mode)

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- 700 mm steel shoes
- Grease-type track adjusters
- Automatic swing brake

MIRRORS, LIGHTS & CAMERAS

- Left side rear view mirror
- Two front working lights (One for boom, One for storage box)

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- LED Room light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- Mechanical suspension seat
- Retractable seatbelt
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Tinted safety glass
- Pull-type front window and removable lower front window
- Color multi display
- Automatic air conditioner
- Emergency escape hammer
- 12V power outlet
- KOMEXS

OPTIONAL EQUIPMENT

- Cab top work lights (two lights)
- 500mm shoe
- 600mm shoe
- N&B piping
- Height adjustable seat
- Front-guard protective structure (may interfere with bucket action)
- Rear view camera
- Refilling pump
- Semi Heavy counterweight (+ 200 kg)
- Heavy counterweight (+ 600 kg)

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

Note: This catalogue may contain attachments and optional equipment that are not available in your area. And it may contain photographs of machines with specifications that differ from those of machines sold in your areas. Please consult your nearest KOBELCO distributor for those items you require. Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalogue may be reproduced in any manner without notice.

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SK140_{LC}



We Save You Fuel
Achieving a Low-Carbon Society



Performance  Design

SK140LC 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.

SK140_{LC}

THE ULTIMATE IN SIMPLE AND ELEGANT DESIGN

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

LED backlights

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

Left Side Console

Flip up left console, with integrated pilot control lock lever, tilts for easy entry and exit from the cab.





Model: ISUZU GG-4JJ1XKSK-02

Engine output

73.0kW/2,000min⁻¹

Optimum operability for various sites

New hydraulic system

The operating hydraulic system is designed to respond with a shorter lever stroke than former models, it allows excellent responsiveness.

Beside this, it achieves the enhancement of the ability to pull the arm in horizontal towing operation and to climb hills while pulling the arm.

Greatly improved digging performance

New bucket shape

The shape of the bucket has been redesigned to improve digging performance and productivity.

Bucket Digging Force

106.9kN ISO6015

Increased by **18%**

(Compared to SK140LC-8 model)

Digging volume per hour

Increased by **6%**

(Compared to SK140LC-8 at H mode)





UNFORGETTABLE COMFORT

1 Suspension seat

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

2 Air conditioner blowing from the rear

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

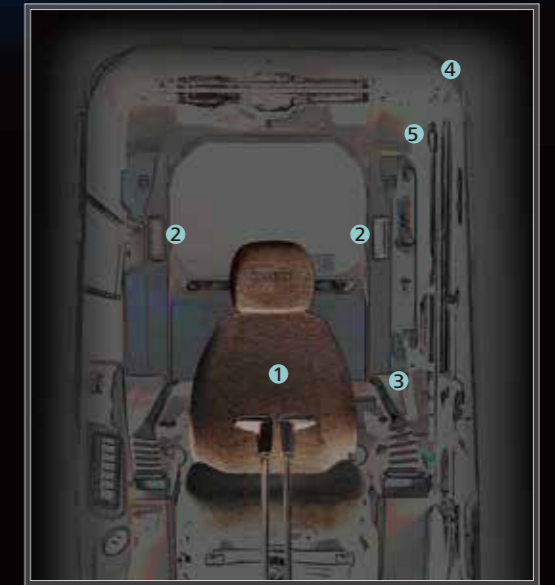
The operator can move the levers horizontally without twisting their wrist, which reduces the fatigue caused by the operations.

4 ROPS Cab

ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.

5 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.



Color Multi-display

Brilliant colors differentiate multiple graphics on cab LCD. Graphics indicate fuel consumption, maintenance intervals and more.

- 1 Analog-style gauges provide an intuitive reading of fuel level and engine temperature
- 2 Green indicates ECO mode selected or efficient operation in other modes
- 3 Fuel consumption/Rear-view camera
- 4 Digging mode switch
- 5 Monitor display switch

One-touch attachment mode switch

A simple flick of switch converts the hydraulic circuit and flow amount to match attachments. Helpful icons let the operator confirm the proper configuration at a glance.



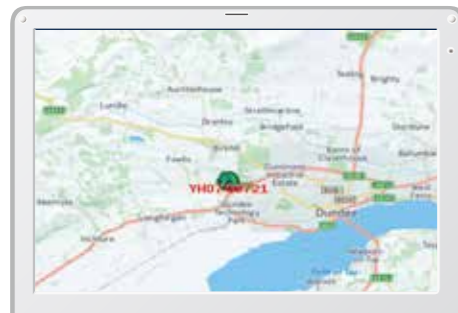
Remote Monitoring for Peace of Mind

KOMEXS 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.

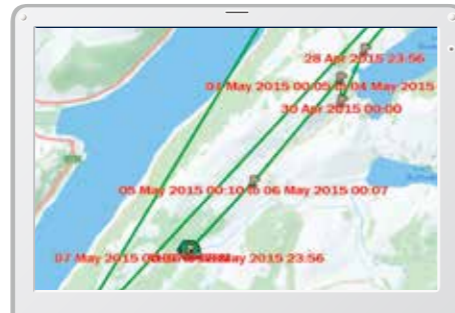
Direct Access to Operational Status

Location Data

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



Latest location



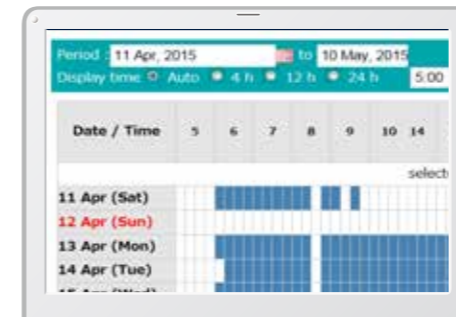
Location records



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- | YT08-30174 | | |

Maintenance

Warning Alerts

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

Alarm Information Can Be Received via E-mail

- Alarm information or maintenance notice can be received via e-mail, using a computer or a mobile device.



Alarm messages can be received on a 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 up with an alarm if the machine is operated outside designated time.



Engine start alarm outside prescribed work time

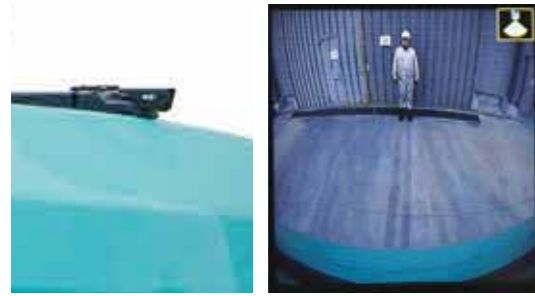
Area Alarm

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



Alarm for outside of reset area

Expanded Field of View for Greater Safety



Rear View Camera (optional)

A rear view camera is installed as option to simplify checking for safety behind the machine. The picture appears on the color monitor.

EASY MAINTENANCE



Right side



Pre-filter with integrated water separator



Fuel filter



Engine oil filter



Engine maintenance

A wide-opening engine bonnet enables to access the engine unit easily.



Two-stage air filter



Pre air cleaner



Left side (radiator and tool box space cooling system elements)

Laid out for easy access to radiator and cooling system.



Wide storage space for tool box



Openable air conditioner condenser
Easy to clean inside



Battery shut-off switch

Specifications

SK140LC
SK140LC-11

Engine

| | |
|------------------|--|
| Model | ISUZU GG-4JJ1XKSK-02 |
| Type | Four cycle, water cooled, overhead camshaft, vertical in-line, direct injection type, with turbocharger |
| No. of cylinders | 4 |
| Bore and stroke | 95.4 mm x 104.9 mm |
| Displacement | 2.999 L |
| Power output | 65.4 kW/2,000 min ⁻¹ (ISO 9249: with fan) 73.0 kW/2,000 min ⁻¹ (ISO 14396: without fan) |
| Max. torque | 341 N-m/1,600 min ⁻¹ (ISO 9249: with fan) 365 N-m/1,600 min ⁻¹ (ISO 14396: without fan) |

Travel system

| | |
|-----------------------|--|
| Travel motors | Variable displacement axial piston, two-speed motors |
| Travel brakes | Hydraulic brake |
| Parking brakes | Wet multiple plate |
| Travel shoes | 46 each side |
| Travel speed | 3.4/5.6 km/h |
| Drawbar pulling force | 141 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 foot pedals for travel

Two hand levers for excavating and swing

Electric rotary-type engine throttle

Boom, arm & bucket

| | |
|-----------------|-------------------|
| Boom cylinders | 100 mm x 1,092 mm |
| Arm cylinder | 115 mm x 1,116 mm |
| Bucket cylinder | 100 mm x 873 mm |

Hydraulic system

Pump

Two variable displacement piston pumps + one gear pump

Max. discharge flow
2 x 130 L/min
1 x 20 L/min

Relief valve setting

| | |
|----------------------|-----------------|
| Boom, arm and bucket | 34.3 Mpa |
| Travel circuit | 34.3 Mpa |
| Swing circuit | 28.0 Mpa |
| Control circuit | 5.0 Mpa |
| Main control valves | 12-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 the neutral position |
| Parking brake | Wet multiple plate |
| Swing speed | 11.0 min ⁻¹ |
| Tail swing radius | 2,190 mm |

Refilling capacities & lubrications

| | |
|-----------------------|---|
| Fuel tank | 280 L |
| Cooling system | 16.0 L |
| Engine oil | 17.0 L |
| Travel reduction gear | 2 x 2.1 L |
| Swing reduction gear | 1.65 L |
| Hydraulic oil tank | 96.7 L tank oil level 180 L hydraulic system |

Attachments

Backhoe bucket and 2.84m arm combination

| Use | | Backhoe bucket | | | |
|-----------------|-----------------------|----------------|-------|-------|-------|
| | | Normal digging | | | |
| Bucket capacity | ISO heaped | m ³ | 0.57 | 0.60 | 0.65 |
| | struck | m ³ | 0.40 | 0.41 | 0.48 |
| Opening width | With side cutter | mm | 1,150 | 1,180 | 1,110 |
| | Without side cutter | mm | 1,070 | 1,100 | 1,020 |
| No. of teeth | | | 5 | 5 | 5 |
| Bucket weight | | kg | 450 | 460 | 490 |
| Combination | Type of counterweight | Standard | ◎ | × | × |
| | | Semi Heavy | ○ | ◎ | × |
| | | Heavy | ○ | ○ | ◎ |

◎ Standard ○ Recommended × Not recommended

Specifications

Working ranges

Unit: m

| | |
|--|--------|
| Boom | 4.68 m |
| Arm | 2.84 m |
| Range | 2.84 m |
| a- Max. digging reach | 8.78 |
| b- Max. digging reach at ground level | 8.62 |
| c- Max. digging depth | 5.98 |
| d- Max. digging height | 8.69 |
| e- Max. dumping clearance | 6.38 |
| f- Min. dumping clearance | 1.84 |
| g- Max. vertical wall digging depth | 5.20 |
| h- Min. swing radius | 2.84 |
| i- Horizontal digging stroke at ground level | 4.70 |
| j- Digging depth for 2.4 m (8') flat bottom | 5.77 |
| Bucket capacity ISO heaped m³ | 0.57 |

Digging force (ISO 6015)

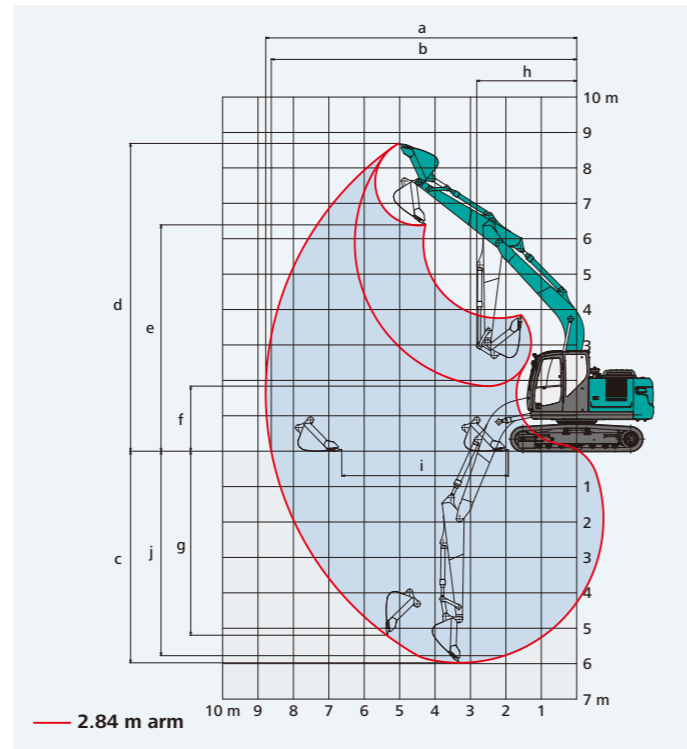
Unit: kN

| | |
|----------------------|--------|
| Arm length | 2.84 m |
| Bucket digging force | 106.9 |
| Arm crowding force | 58.2 |

Dimensions

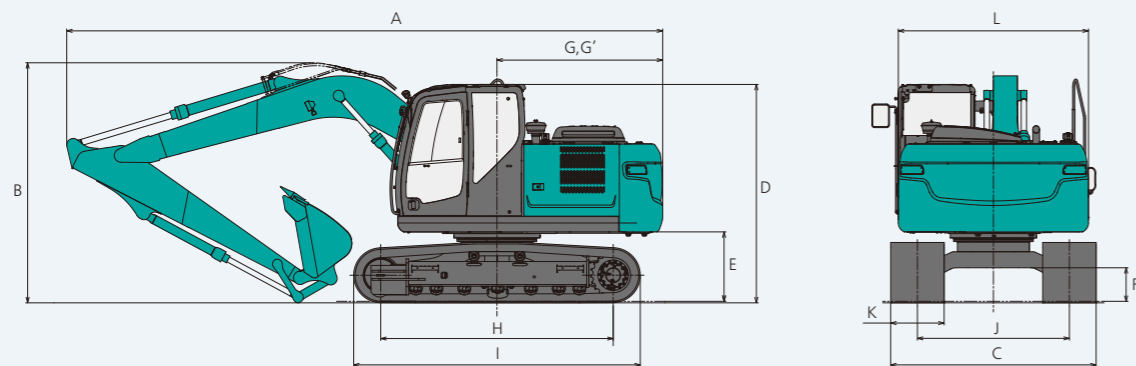
Unit: mm

| | |
|-----------------------------------|--------|
| Arm length | 2.84 m |
| A Overall length | 7,800 |
| B Overall height (to top of boom) | 3,140 |
| C Overall width | 2,690 |
| D Overall height (to top of cab) | 2,860 |
| E Ground clearance of rear end* | 910 |
| F Ground clearance* | 440 |



| | |
|--|-------|
| G Tail swing radius | 2,190 |
| G' Distance from centre of swing to rear end | 2,170 |
| H Tumbler distance | 3,040 |
| I Overall length of crawler | 3,750 |
| J Track gauge | 1,990 |
| K Shoe width | 700 |
| L Overall width of upperstructure | 2,490 |

*Without including height of shoe lug

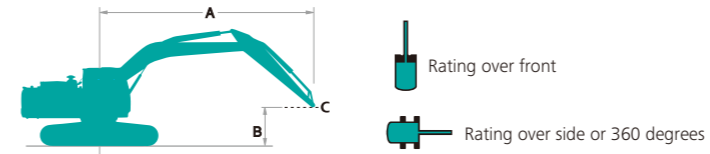


Operating weight & ground pressure

In standard trim, with standard boom, 2.84 m arm and 0.57 m³, 0.60 m³, 0.65m³ ISO heaped bucket

| Shaped | Type of Counterweight | Triple grouser shoes (even height) | | | | | | | | |
|--------------------------|-----------------------|------------------------------------|------------|--------|----------|------------|--------|----------|------------|--------|
| | | Standard | Semi Heavy | Heavy | Standard | Semi Heavy | Heavy | Standard | Semi Heavy | Heavy |
| Bucket capacity | m³ | 0.57 | 0.60 | 0.65 | 0.57 | 0.60 | 0.65 | 0.57 | 0.60 | 0.65 |
| Shoe width | mm | 500 | | | 600 | | | 700 | | |
| Overall width of crawler | mm | 2,490 | | | 2,590 | | | 2,690 | | |
| Ground pressure | kPa | 41 | 42 | 43 | 35 | 35 | 36 | 30 | 31 | 32 |
| Operating weight | kg | 13,700 | 13,900 | 14,400 | 14,000 | 14,200 | 14,700 | 14,200 | 14,400 | 14,900 |

Lift capacities



A: Reach from swing centerline to arm top
 B: Arm top height above/below ground
 C: Lift point
 Bucket: Without bucket
 Relief valve setting: 34.3 MPa {350kgf/cm²}

| SK140LC | | Arm: 2.84m Bucket: without, Shoe: 700 Standard Counterweight: 2,400 kg | | | | | | | | | | | | |
|---------|----|--|--------|--------|--------|--------|-------|--------|--------|--------|-------|---------------|--------|--------|
| A | B | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | At max. reach | | Radius |
| | | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | |
| 7.5 m | kg | | | | | | | | | | | *2,040 | *2,040 | 4.62 m |
| 6.0 m | kg | | | | | | | *2,090 | *2,090 | | | *1,700 | *1,700 | 6.12 m |
| 4.5 m | kg | | | | | | | *2,990 | 2,400 | | | *1,590 | *1,590 | 6.97 m |
| 3.0 m | kg | | | *5,270 | *5,270 | *3,880 | 3,580 | *3,350 | 2,300 | | | *1,590 | *1,590 | 7.43 m |
| 1.5 m | kg | | | *7,940 | 5,960 | *4,980 | 3,300 | 3,520 | 2,180 | *1,960 | 1,550 | *1,670 | 1,530 | 7.55 m |
| G.L. | kg | | | *6,400 | 5,610 | 5,260 | 3,110 | 3,410 | 2,080 | | | *1,850 | 1,560 | 7.36 m |
| -1.5 m | kg | *4,640 | *4,640 | *8,890 | 5,560 | 5,170 | 3,030 | 3,360 | 2,040 | | | *2,220 | 1,720 | 6.84 m |
| -3.0 m | kg | *7,780 | *7,780 | *8,450 | 5,660 | 5,200 | 3,060 | | | | | *3,060 | 2,140 | 5.88 m |
| -4.5 m | kg | | | *6,030 | 5,930 | | | | | | | *4,010 | 3,590 | 4.19 m |

| SK140LC | | Arm: 2.84m Bucket: without, Shoe: 700 Semi Heavy Counterweight: 2,600 kg | | | | | | | | | | | | |
|---------|----|--|--------|--------|--------|--------|-------|--------|--------|--------|-------|---------------|--------|--------|
| A | B | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | At max. reach | | Radius |
| | | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | |
| 7.5 m | kg | | | | | | | | | | | *2,040 | *2,040 | 4.62 m |
| 6.0 m | kg | | | | | | | *2,090 | *2,090 | | | *1,700 | *1,700 | 6.12 m |
| 4.5 m | kg | | | | | | | *2,990 | 2,490 | | | *1,590 | *1,590 | 6.97 m |
| 3.0 m | kg | | | *5,270 | *5,270 | *3,880 | 3,710 | *3,350 | 2,390 | | | *1,590 | *1,590 | 7.43 m |
| 1.5 m | kg | | | *7,940 | 6,190 | *4,980 | 3,430 | 3,630 | 2,270 | *1,960 | 1,620 | *1,670 | 1,600 | 7.55 m |
| G.L. | kg | | | *6,400 | 5,840 | 5,430 | 3,230 | 3,520 | 2,170 | | | *1,850 | 1,630 | 7.36 m |
| -1.5 m | kg | *4,640 | *4,640 | *8,890 | 5,790 | 5,340 | 3,160 | 3,470 | 2,130 | | | *2,220 | 1,790 | 6.84 m |
| -3.0 m | kg | *7,780 | *7,780 | *8,450 | 5,880 | 5,370 | 3,190 | | | | | *3,060 | 2,230 | 5.88 m |
| -4.5 m | kg | | | *6,030 | *6,030 | | | | | | | *4,010 | 3,730 | 4.19 m |

| SK140LC | | Arm: 2.84m Bucket: without, Shoe: 700 Heavy Counterweight: 3,000 kg | | | | | | | | | | | | |
|---------|----|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------------|--------|--------|
| A | B | 1.5 m | | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | At max. reach | | Radius |
| | | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | Front | Side | |
| 7.5 m | kg | | | | | | | | | | | *2,040 | *2,040 | 4.62 m |
| 6.0 m | kg | | | | | | | *2,090 | *2,090 | | | *1,700 | *1,700 | 6.12 m |
| 4.5 m | kg | | | | | | | *2,990 | 2,670 | | | *1,590 | *1,590 | 6.97 m |
| 3.0 m | kg | | | *5,270 | *5,270 | *3,880 | *3,880 | *3,350 | 2,570 | | | *1,590 | *1,590 | 7.43 m |
| 1.5 m | kg | | | *7,940 | 6,640 | *4,980 | 3,690 | *3,850 | 2,450 | *1,960 | 1,760 | *1,670 | *1,670 | 7.55 m |
| G.L. | kg | | | *6,400 | 6,290 | 5,770 | 3,490 | 3,750 | 2,350 | | | *1,850 | 1,770 | 7.36 m |
| -1.5 m | kg | *4,640 | *4,640 | *8,890 | 6,240 | 5,680 | 3,410 | 3,700 | 2,310 | | | *2,220 | 1,950 | 6.84 m |
| -3.0 m | kg | *7,780 | *7,780 | *8,450 | 6,340 | *5,630 | 3,440 | | | | | *3,060 | 2,420 | 5.88 m |
| -4.5 m | kg | | | *6,030 | *6,030 | | | | | | | *4,010 | *4,010 | 4.19 m |

- 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 is 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.