

**SK140<sub>LC</sub>**  
SK140LC-11

**KOBELCO**

Performance  Design

## STANDARD EQUIPMENT

### ENGINE

- Engine, ISUZU 4JJ1XDJA, Direct injection type, with turbocharger
- Auto Idle Stop (AIS)
- 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
- 500 mm steel shoes
- Grease-type track adjusters
- Automatic swing brake

### MIRRORS, LIGHTS & CAMERAS

- Left side rear view mirror
- Two front working lights (LED) (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
- 24 V power outlet
- GEOSCAN
- N&B piping

## OPTIONAL EQUIPMENT

- Cab top work lights (two lights)
- 600 mm steel shoe
- 700 mm steel shoe
- Front-guard protective structure (may interfere with bucket action)
- Rear view camera
- Travel alarm

- Refueling pump
- Heavy counterweight (+ 600 kg)
- Dozer Blade (2,490 mm)
- Dozer Blade (2,590 mm)
- Dozer Blade (2,690 mm)

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<sub>LC</sub>**

■ Bucket capacity:

0.45 – 0.57 m<sup>3</sup>

■ Engine power:

73.0 kW / 2,000 min<sup>-1</sup>

■ Operating weight:

14,000 – 15,300 kg

**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<sub>LC</sub>



## 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 4JJ1XDJA

Engine output

**73.0kW/2,000min<sup>-1</sup>**

## 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

**105.4kN ISO6015**

Increased by **17%**

(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

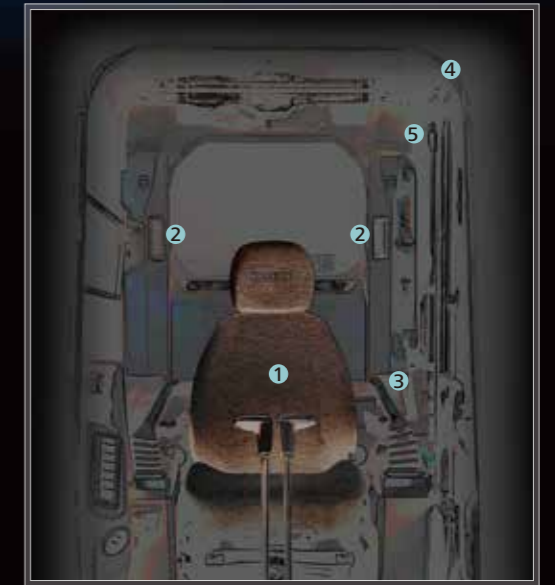
The operator can move the levers horizontally without twisting their wrist, which reduces the fatigue caused by the operations.

### 4 ROPS Cab NEW

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 NEW

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.

# Excavator Remote Monitoring System



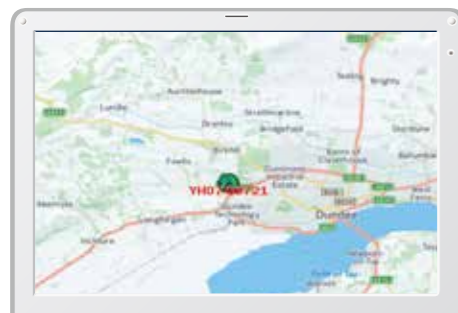
## Remote Monitoring for Peace of Mind

GEO SCAN 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

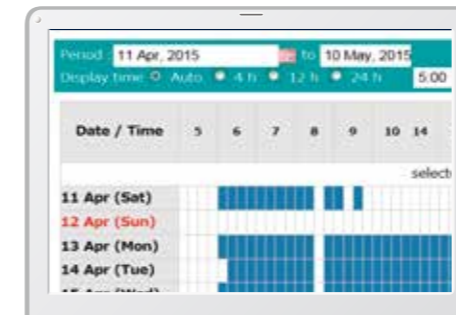
### Location Data

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



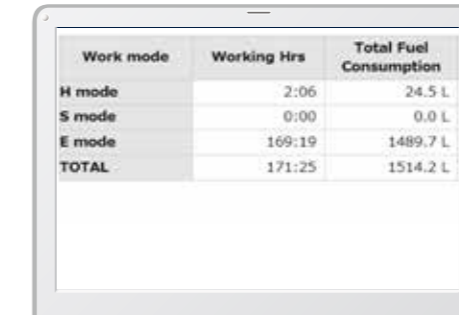
## Operating Hours

- 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.



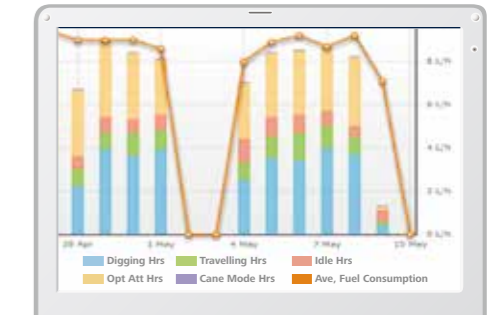
## Fuel Consumption Data

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



## 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.

Maintenance

Model	Serial No.	Hour Meter	Engine Oil
SK135SRLC-3/SK140SR	YH07-09721	734 Hr	434
SK135SRLC-3/SK140SR	YH07-09789	73 Hr	429
SK210LC-9	YQ13-10454	960 Hr	58
SK210LC-9	YQ13-10481	549 Hr	498
SK75SR-	YT08-30174		

### 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.



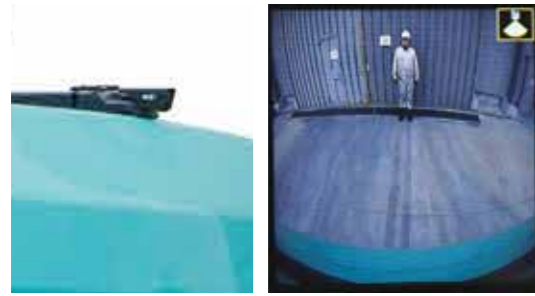
### Area Alarm

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





## 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



1 Pre-filter with integrated water separator



2 Fuel filter



3 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.



1 Wide storage space for tool box



2 Openable air conditioner condenser  
Easy to clean inside



3 Battery shut-off switch

## Specifications

**SK140LC**  
SK140LC-11

### Engine

Model	ISUZU 4JJ1XDJA
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 <sup>-1</sup> (ISO 9249: with fan) 73.0 kW/2,000 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	341 N-m/1,600 min <sup>-1</sup> (ISO 9249: with fan) 365 N-m/1,600 min <sup>-1</sup> (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 903 mm

### Hydraulic system

#### Pump

Type 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<sup>-1</sup>

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 combination

Use			Backhoe bucket				
			Normal digging				
			0.45 (0.40)*	0.50 (0.45)	0.50 (0.43)*	0.57 (0.49)*	0.57 (0.49)**
Bucket capacity	ISO heaped	m <sup>3</sup>	0.45	0.50	0.50	0.57	0.57
	struck	m <sup>3</sup>	0.35	0.37	0.35	0.40	0.40
Opening width	With side cutter	mm	855	940	945	1,070	1,070
	Without side cutter	mm	915	1,000	1,030	1,150	1,150
No. of teeth			4	5	5	5	5
Bucket weight		kg	360	390	420	450	470
Combination	2.38 m		○	○	○	○	◎
	2.84 m		○	◎	○	△	△

◎Standard ○Recommended △Loading only

\*Side pin \*\*For demolition

# Specifications

## Working ranges

Unit: m

Range	Boom	
	4.68 m	
	2.38 m	2.84 m
a- Max. digging reach	8.34	8.78
b- Max. digging reach at ground level	8.17	8.62
c- Max. digging depth	5.52	5.98
d- Max. digging height	8.45	8.75
e- Max. dumping clearance	6.08	6.38
f- Min. dumping clearance	2.28	1.84
g- Max. vertical wall digging depth	4.45	4.91
h- Min. swing radius	2.75	2.84
i- Horizontal digging stroke at ground level	4.20	4.68
j- Digging depth for 2.4 m (8') flat bottom	5.28	5.77
Bucket capacity ISO heaped m <sup>3</sup>	0.57	0.50

## Digging force (ISO 6015)

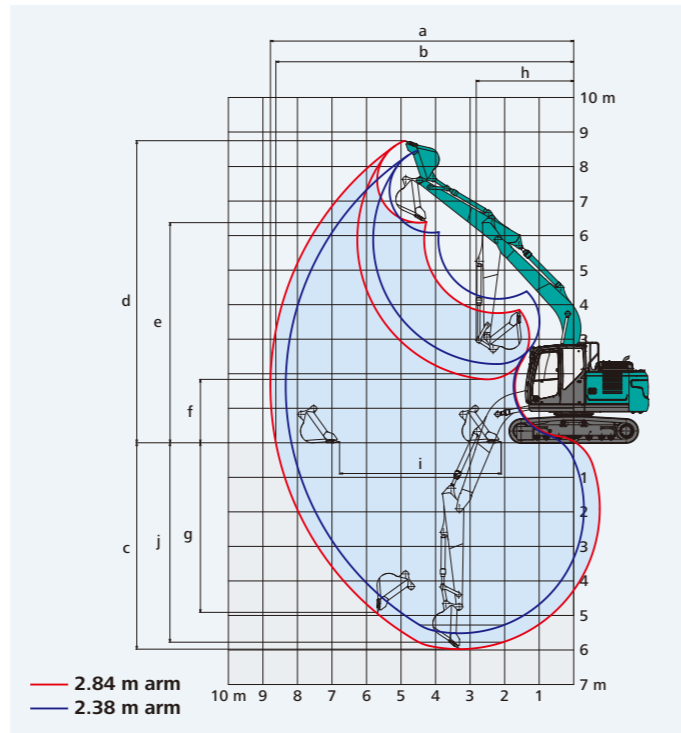
Unit: kN

Arm length	2.38 m	2.84 m
Bucket digging force	105.4	105.4
Arm crowding force	64.0	58.0

## Dimensions

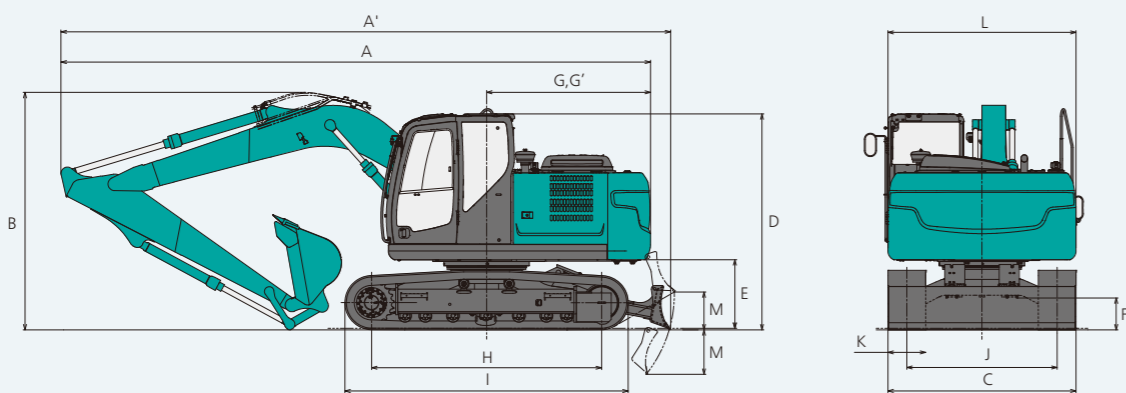
Unit: mm

Arm length	2.38 m	2.84 m
A Overall length	7,770	7,800
A' Overall length (with dozer blade)	8,030	8,070
B Overall height (to top of boom)	2,750	3,140
C Overall width	2,490	
D Overall height (to top of cab)	2,860	
E Ground clearance of rear end*	910	
F Ground clearance* (with dozer/without dozer)	415/400	



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	500
L Overall width of upperstructure	2,490
M Dozer blade (up / down)**	500/590

\*Without including height of shoe lug \*\*Dozer blade is optional equipment



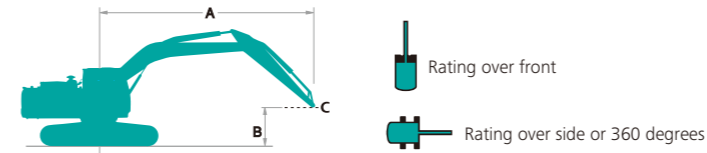
## Operating weight & ground pressure

In standard trim, with standard boom, 2.84 m arm and 0.50 m<sup>3</sup> ISO heaped bucket

	Shaped	Triple grouser shoes (even height)		
Shoe width	mm	500	600	700
Overall width of crawler	mm	2,490	2,590	2,690
Ground pressure	kPa	42	35	31
Ground pressure (with dozer blade)	kPa	44	37	33
Operating weight	kg	14,000	14,200	14,500
Operating weight (with dozer blade)	kg	14,800	15,000	15,300

# Lift capacities

**SK140LC**  
SK140LC-11



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/cm<sup>2</sup>}

SK140LC		Arm: 2.38 m		Bucket: without		Counterweight: 2,600 kg		Shoe: 500 mm		Dozer: without			
		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach			
		Rating over front		Rating over side or 360 degrees		Rating over front		Rating over side or 360 degrees		Radius			
B	6.0 m	kg								*1,790	*1,790	5.56 m	
	4.5 m	kg				*3,400	*3,400	*3,310	2,390	*1,660	*1,660	6.49 m	
	3.0 m	kg			*6,250	*6,250	*4,290	3,560	*3,610	2,310	*1,660	*1,660	6.98 m
	1.5 m	kg			*5,430	*5,430	*5,300	3,300	3,510	2,200	*1,760	1,710	7.11 m
	G.L.	kg			*6,230	5,670	5,260	3,140	3,420	2,120	*1,980	1,740	6.91 m
	-1.5 m	kg	*5,410	*5,410	*9,140	5,680	5,210	3,090	3,400	2,100	*2,440	1,960	6.34 m
	-3.0 m	kg	*9,230	*9,230	*7,890	5,820	5,290	3,160			*3,640	2,550	5.30 m

SK140LC		Arm: 2.38m		Bucket: without		Counterweight: 2,600 kg		Shoe: 500 mm		Dozer: blade up			
		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach			
		Rating over front		Rating over side or 360 degrees		Rating over front		Rating over side or 360 degrees		Radius			
B	6.0 m	kg								*1,790	*1,790	5.56 m	
	4.5 m	kg				*3,400	*3,400	*3,310	2,520	*1,660	*1,660	6.49 m	
	3.0 m	kg			*6,250	*6,250	*4,290	3,740	*3,610	2,430	*1,660	*1,660	6.98 m
	1.5 m	kg			*5,430	*5,430	*5,300	3,490	3,510	2,330	*1,760	*1,760	7.11 m
	G.L.	kg			*6,230	5,990	5,250	3,320	3,420	2,240	*1,980	1,850	6.91 m
	-1.5 m	kg	*5,410	*5,410	*9,140	6,010	5,200	3,280	3,400	2,230	*2,440	2,080	6.34 m
	-3.0 m	kg	*9,230	*9,230	*7,890	6,150	5,280	3,350			*3,640	2,700	5.30 m

SK140LC		Arm: 2.84 m		Bucket: without		Counterweight: 2,600 kg		Shoe: 500 mm		Dozer: without					
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach			
		Rating over front		Rating over side or 360 degrees		Rating over front		Rating over side or 360 degrees		Rating over front		Rating over side or 360 degrees			
B	7.5 m	kg										*2,020	*2,020	4.62 m	
	6.0 m	kg						*2,070	*2,070			*1,680	*1,680	6.12 m	
	4.5 m	kg						*2,940	2,400			*1,570	*1,570	6.97 m	
	3.0 m	kg			*5,220	*5,220	*3,830	3,590	*3,310	2,300		*1,570	*1,570	7.43 m	
	1.5 m	kg			*7,930	5,960	*4,920	3,300	3,490	2,170	*1,940	1,540	*1,650	1,520	7.55 m
	G.L.	kg			*6,380	5,600	5,220	3,090	3,380	2,070			*1,830	1,540	7.36 m
	-1.5 m	kg	*4,620	*4,620	*8,860	5,550	5,130	3,010	3,330	2,020			*2,200	1,700	6.84 m
	-3.0 m	kg	*7,750	*7,750	*8,360	5,650	5,170	3,050					*3,040	2,130	5.88 m
	-4.5 m	kg			*5,960	5,940							*3,950	3,590	4.19 m

SK140LC		Arm: 2.84 m		Bucket: without		Counterweight: 2,600 kg		Shoe: 500 mm		Dozer: blade up					
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach			
		Rating over front		Rating over side or 360 degrees		Rating over front		Rating over side or 360 degrees		Rating over front		Rating over side or 360 degrees			
B	7.5 m	kg										*2,020	*2,020	4.62 m	
	6.0 m	kg						*2,070	*2,070			*1,680	*1,680	6.12 m	
	4.5 m	kg						*2,940	2,520			*1,570	*1,570	6.97 m	
	3.0 m	kg			*5,220	*5,220	*3,830	3,770	*3,310	2,420		*1,570	*1,570	7.43 m	
	1.5 m	kg			*7,930	6,290	*4,920	3,480	3,480	2,300	*1,940	1,630	*1,650	1,610	7.55 m
	G.L.	kg			*6,380	5,930	5,210	3,280	3,370	2,200			*1,830	1,640	7.36 m
	-1.5 m	kg	*4,620	*4,620	*8,860	5,880	5,120	3,200	3,320	2,150			*2,200	1,810	6.84 m
	-3.0 m	kg	*7,750	*7,750	*8,360	5,980	5,160	3,230					*3,040	2,260	5.88 m
	-4.5 m	kg			*5,960	*5,960							*3,950	3,790	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.