

# KOBELCO

SK850LC-11

Performance  Design

## SK850<sub>LC</sub>

■ Bucket capacity:

2.3 – 5.4 m<sup>3</sup>

■ Engine power:

382 kW / 1,800 min<sup>-1</sup>

■ Operating weight:

81,300 – 87,200 kg



Complies with the EU Stage V  
exhaust emission regulation

*Built for Perfectionists*



# Performance Design

SK850LC of KOBELCO has realised a completely new value by harmonising PERFORMANCE and DESIGN.

Performance enhancements offer greater efficiency and productivity along with increased power and speed.

Design improvements provide the ultimate in comfort and control.

KOBELCO refuses to compromise, creating machines that meet every challenge.





# THE ULTIMATE IN SIMPLE DESIGN

In our pursuit of functional beauty and styling,  
we created an all new interior design focused with the operator in mind.

## Jog Dial

This dial integrates multiple functions into a single, easy to use interface. Even with gloves on, the operator can make the adjustments they need.

## LED Illumination

Dials and buttons are now backlit to provide a bright, clear view in any lighting condition.









# UNFORGETTABLE COMFORT

## Air suspension seat

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.

## Multi Vent Air Conditioner

Cool air is blown from multiple outlets toward the operator's body for more comfortable operation.

## Ergonomic Lever Angles

Operators can move levers horizontally without twisting their wrists, reducing fatigue.



## New Hydraulic Control

Our newly upgraded hydraulic control system responds to shorter lever strokes than previous models, delivering swifter, more precise movement and improved lever operability.

## LED Interior Light

Interior lights turn on and off automatically when the door is open or the ignition is turned to the OFF position. This ensures safe entry and exit in the dark.

## Parallel wiper secure a wide field of view



# KOBELCO



04:33



SETTING MENU



PICTURE OF  
CAMERA



CLOCK  
SETTING



SCREEN  
BRIGHTNESS



MAINTENANCE



CONSUMPTION



LANGUAGE  
SELECTION



PRESSURE  
RELEASE

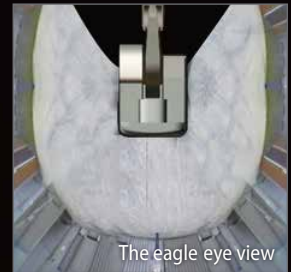
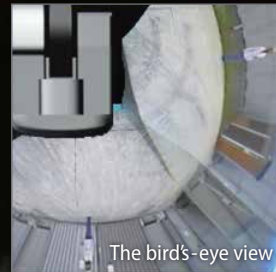
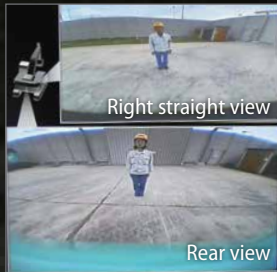




# SAFETY ON FULL DISPLAY

## 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.





## EXPERIENCING A COMPETENT PERFORMANCE

### Excellent machine stability, plus an EU Stage V compliant engine

The new SK850LC is equipped with a 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 maintenance interval has been extended.



Model: ISUZU 6WG1

Engine output

**382 kW / 1,800 min<sup>-1</sup>**





Max. bucket digging force

**403** kN : Normal mode

Max. arm digging force

**311** kN : Normal mode

(3.60 m arm)



Lifting Capacity

**30,390** kg

(Reach: 6.0 m, Height: Ground level)

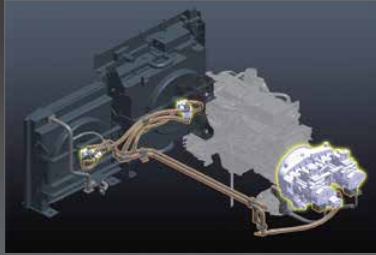
(Boom: 8.25 m, Arm: 3.60 m, Bucket: without, Shoe: 650 mm,  
Standard counterweight: 13,400 kg)



# POWER PLANT DURABILITY YOU CAN TRUST

## Enhanced body rigidity for 85-ton class machines

The SK850LC 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.



### Hydraulic drive cooling fan

Hydraulic drive optimises the cooling fan rotation speed to improve fuel economy and reduce noise. Also, the independent oil cooler fan better matches cooling to the hydraulic oil temperature, for optimal oil temperature control.



### Three track guides per side (standard) Full track guides (option)

Three heavy duty track guides installed on each side assure stability in the most demanding situations. Optional full track guides withstand powerful vibration and eliminate de track concern.



### Variable Gauge Crawler

The variable gauge crawler extends the crawlers for extremely stable operation, and retracts them for easier transport.

# CONVENIENT AND SENSIBLE EQUIPMENT



## Engine start password

A password is required when starting the engine for greater security.



## Wiper adjustment function

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



## Parallel wiper Sun screen



## Console mount

The console-integrated seat allows for comfortable operation.



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

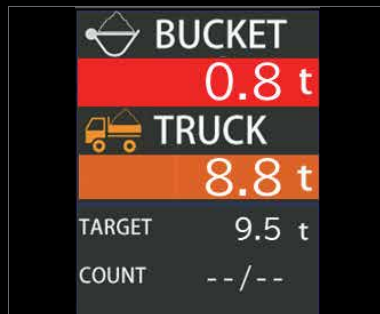


## USB port/12V power outlet



## Smartphone holder

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



## K-LOAD (Load Weighing Function)

Weighing is possible while lifting and swinging, greatly improving work efficiency.

\*Not legal for trade.



# GREATER MULTI-FUNCTION CAPABILITIES

## Attachment mode selection

The auxiliary flow rates for the bucket, breaker, nibbler, and rotating are all now adjustable by the operator through the monitor, allowing you to change tools quickly and easily. Mode settings for other attachments like the tilt rotator can be added or changed.



## Drain Piping

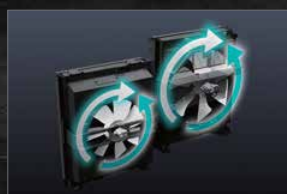
Quick hitch and Drain piping are available at the same time, expanding the variation of attachment.



# EASY MAINTENANCE



Cooling system components



## Reversible fan

With the flip of a switch from the drivers seat, the standard feature reversing fan pulls air in the opposite direction, blowing debris away to prevent clogging.



Auto-Coil Grease Gun Holder  
Grease tank / Lubrication hose



DEF/AdBlue Tank



## Standard Overhead Top Guard Level II

The standard overhead cab guard can be tilted open for easy window cleaning.



Pre air cleaner



Air cleaner



Engine maintenance



## Standard Left and Right Walkways

The left walkway provides easy access to the upper structure without having to go down to the ground. The right walkway supports makes refueling easier.



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).



# KOBELCO MONITORING EXCAVATOR SYSTEM



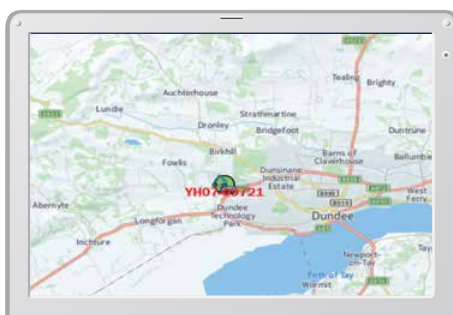
## Remote Monitoring for Peace of Mind

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.

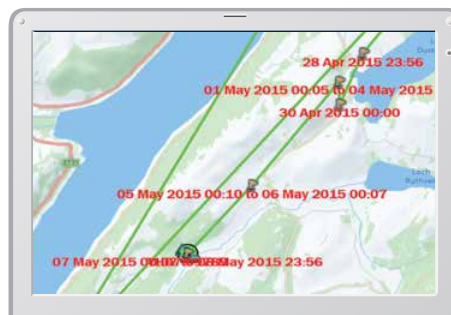
## Direct Access to Operational Status

### Location Data

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



Latest location



Location records

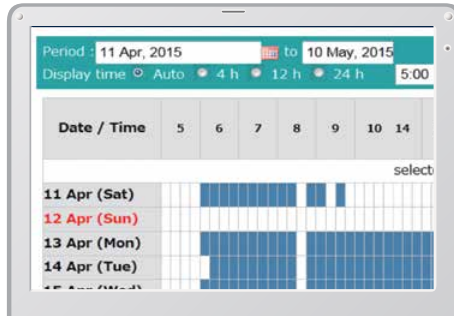
Period	11 Apr, 2015	to	10 May, 2015	Search
Type of Operation	Working Hrs	Ratio		
Total Working Hrs	169 Hrs	100 %		
Digging Hrs	72.2 Hrs	43 %		
Traveling Hrs	18.3 Hrs	11 %		
Idle Hrs	15.9 Hrs	9 %		
Opt Att Hrs	62.5 Hrs	37 %		
Crane Mode Hrs	0 Hrs	0 %		

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

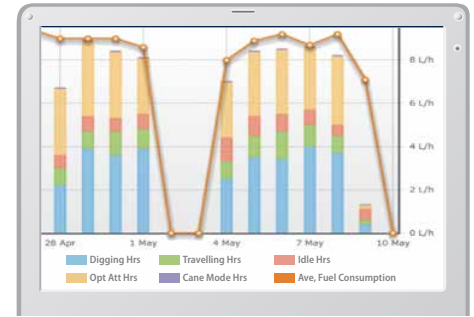
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

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
<b>TOTAL</b>	<b>171:25</b>	<b>1514.2 L</b>

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	ISUZU 6WG1
Type	Four-cycle, water-cooled, direct injection diesel engine, turbo charged, EU Stage V exhaust emission regulation
No. of cylinders	6
Bore and stroke	147 mm x 154 mm
Displacement	15.681 L
Rated power output	382 kW/1,800 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	2,250 N·m/1,300 min <sup>-1</sup> (ISO 14396: without fan)



## Hydraulic System

Pump	
Type	Two variable displacement axial piston pumps + rotation gear pump + pilot gear pump
Max. discharge flow	2 × 504 L/min, 1 × 49.3 L/min, 1 × 30 L/min
Relief valve setting	
Boom, arm and bucket	33.0 MPa
Travel circuit	33.0 MPa
Swing circuit	26.0 MPa
Control circuit	5.0 MPa
Pilot control pump	Gear type
Main control valve	8-spool
Oil cooler	Air cooled type



## Swing System

Swing motor	Two 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	7.3 min <sup>-1</sup>
Swing torque	268 kN·m
Maximum swing gradient (Loaded)*	23 % {13°}

\*Value for the least favourable specification



## Attachments

Backhoe bucket and combination

Use			Backhoe bucket				
Bucket capacity	ISO heaped	m <sup>3</sup>	2.3	2.8	3.5	4.6	5.4
	Struck	m <sup>3</sup>	1.8	2.1	2.6	3.4	4.0
Opening width	With side cutter	mm	1,470	1,680	2,000	2,200	2,500
	Without side cutter	mm	1,370	1,580	1,900	2,100	2,400
No. of bucket teeth			4	5	5	6	6
Weight			2,130	2,370	2,610	3,270	3,570
Combination	2.90 m short arm		○	○	○	◎	△
	3.60 m standard arm		○	○	◎	△	—
	4.40 m semi long arm		○	◎	△	—	—
	5.40 m long arm		◎	△	—	—	—
	2.90 m short arm + 7.25m ME boom		—	—	—	—	◎

◎ Standard ○ Recommended △ Loading only



## Travel System

Travel motors	2 × axial-piston, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	51 each side
Travel speed	4.2/2.6 km/h
Rated drawbar pull	678 kN (SAE J 1309)
Gradeability	70% {35°}



## Cab and control

### Cab

All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil 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

### Noise levels

External 108 dB(A) (2000/14/EC)

Operator 74 dB(A) (ISO 6396)

### Vibration levels

Hand/arm\* ≤ 2.5 m/s<sup>2</sup>

Body\* ≤ 0.5 m/s<sup>2</sup>

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



## Cylinders

Boom cylinders	210 mm x 1,800 mm
Arm cylinder	220 mm x 2,175 mm
Bucket cylinder	200 mm x 1,570 mm



## Refilling Capacities and lubrications

Fuel tank	960 L
Cooling system	91 L
Engine oil	54 L
Travel reduction gear	2 x 22 L
Swing reduction gear	2 x 8 L
Hydraulic oil tank	522 L tank oil level
	905 L hydraulic system
DEF/Urea tank	83 L



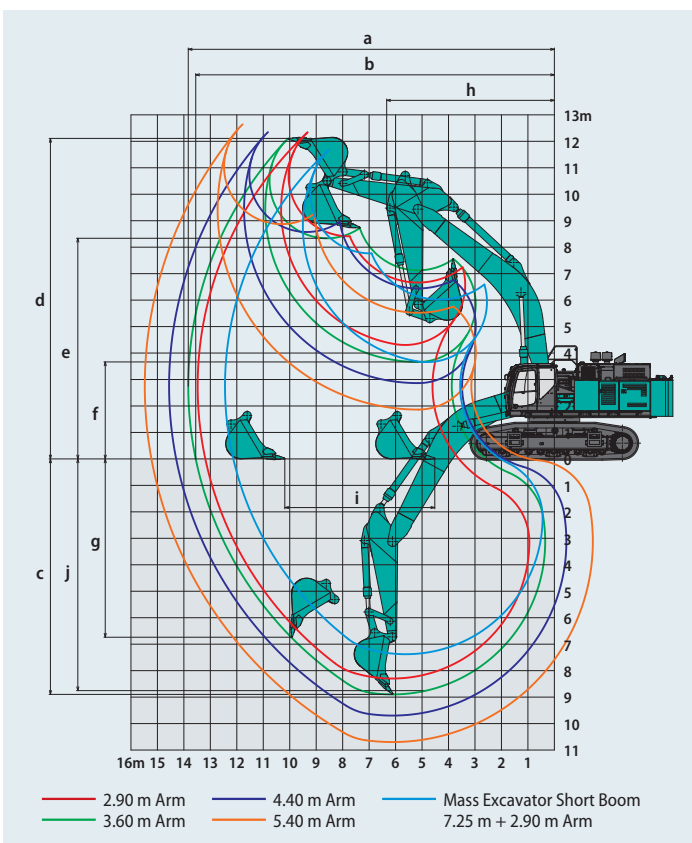
## Working Ranges

		8.25 m				Unit: m
Boom	Arm	2.90 m	3.60 m	4.40 m	5.40 m	7.25 m
Range		2.90 m	3.60 m	4.40 m	5.40 m	2.90 m
a- Max. digging reach		13.48	13.83	14.56	15.48	12.45
b- Max. digging reach at ground level		13.19	13.55	14.29	15.23	12.13
c- Max. digging depth*		8.30	8.90	9.70	10.70	7.38
d- Max. digging height*		12.34	12.11	12.35	12.64	11.69
e- Max. dumping clearance*		8.41	8.34	8.57	8.87	7.77
f- Min. dumping clearance*		4.31	3.66	2.86	1.86	3.66
g- Max. vertical wall digging depth*		5.16	6.74	7.48	8.41	4.42
h- Min. swing radius		6.31	6.34	6.34	6.40	5.49
i- Horizontal digging stroke at ground level		4.36	5.67	6.80	8.08	4.38
j- Digging depth for 2.4 m (8') flat bottom*		8.15	8.75	9.58	10.60	7.23
Bucket capacity SAE heaped m <sup>3</sup>		4.6	3.5	2.8	2.3	5.4

\* Without including height of shoe lug

## Digging Force (ISO 6015)

		8.25 m				Unit: kN
Boom	Arm length	2.90 m	3.60 m	4.40 m	5.40 m	2.90 m
Bucket digging force	ISO	432	403	403	403	432
Arm crowding force	ISO	351	311	272	234	351



## Operating Weight & Ground Pressure

In standard trim, with HD 8.25 m boom, HD 3.60 m arm, 3.5 m<sup>3</sup> ISO heaped bucket and standard counterweight

Shaped		Double grouser shoes (even height)		
Shoe width	mm	650	750	900
Overall width of crawler (Opened / retracted)	mm	4,200 / 3,400	4,300 / 3,500	4,450 / 3,800
Ground pressure	Without Full track guide	kPa	110.9	96.8
	With Full track guide	kPa	111.6	97.4
Operating weight	Without Full track guide	kg	81,900	82,500
	With Full track guide	kg	82,400	83,000

In standard trim, with HD 8.25 m boom, HD 3.60 m arm, 3.5 m<sup>3</sup> ISO heaped bucket and Heavier counterweight (+3tons)

Shaped		Double grouser shoes (even height)		
Shoe width	mm	650	750	900
Overall width of crawler (Opened / retracted)	mm	4,200 / 3,400	4,300 / 3,500	4,450 / 3,800
Ground pressure	Without Full track guide	kPa	114.9	100.3
	With Full track guide	kPa	115.6	100.9
Operating weight	Without Full track guide	kg	84,900	85,500
	With Full track guide	kg	85,400	86,000

In standard trim, with 7.25 m ME boom, HD 2.90 m arm, 5.4 m<sup>3</sup> ISO heaped bucket and Standard counterweight

Shaped		Double grouser shoes (even height)		
Shoe width	mm	650	750	900
Overall width of crawler (Opened / retracted)	mm	4,200 / 3,400	4,300 / 3,500	4,450 / 3,800
Ground pressure	Without Full track guide	kPa	110.1	96.2
	With Full track guide	kPa	110.7	96.8
Operating weight	Without Full track guide	kg	81,300	82,000
	With Full track guide	kg	81,800	82,500

In standard trim, with 7.25 m ME boom, HD 2.90 m arm, 5.4 m<sup>3</sup> ISO heaped bucket and Heavier counterweight (+3tons)

Shaped		Double grouser shoes (even height)		
Shoe width	mm	650	750	900
Overall width of crawler (Opened / retracted)	mm	4,200 / 3,400	4,300 / 3,500	4,450 / 3,800
Ground pressure	Without Full track guide	kPa	114.1	99.7
	With Full track guide	kPa	114.8	100.3
Operating weight	Without Full track guide	kg	84,300	85,000
	With Full track guide	kg	84,800	85,500

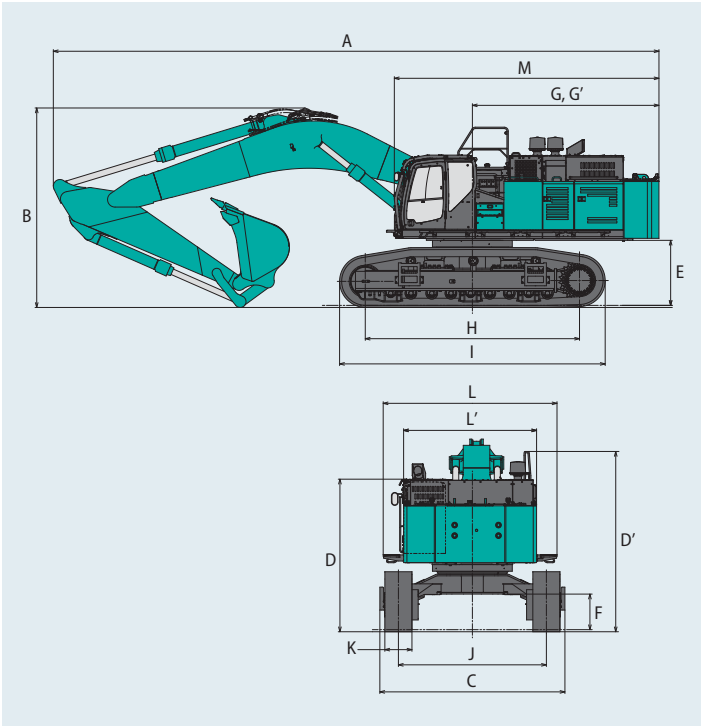
# Specifications



## Dimensions

Boom		8.25 m				7.25 m
Arm length		2.90 m	3.60 m	4.40 m	5.40 m	2.90 m
A	Overall length		14,600	14,530	14,480	14,220
B	Overall height (to top of boom)		4,850	4,790	5,160	5,750
C	Overall width	Extended	4,440			
		Retracted	3,640			
D	Overall height (to top of cab)		3,660			
D'	Overall height (to top of handrail)		4,320			
E	Ground clearance of rear end*		1,560			
F	Ground clearance*		850			
G	Tail swing radius		4,580			
G'	Distance from centre of swing to rear end		4,480			
H	Tumbler distance		5,140			
I	Overall length of crawler		6,380			
J	Track gauge	Extended	3,550			
		Retracted	2,750			
K	Shoe Width		650			
L	Overall width of upperstructure		4,170**			
L'	Overall width of upperstructure (walkway folded)		3,190			
M	Overall length of upperstructure		6,350***			

\* Without including height of shoe lug    \*\*With catwalk    \*\*\*With cab guard



## Transportation

### Four Disassembly and Transport Patterns

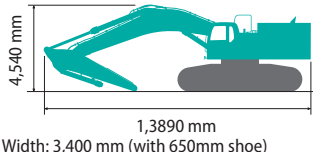
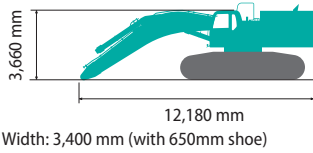
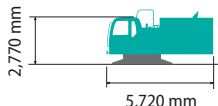
The SK850LC can be disassembled and transported in four different ways, including: no counterweight, with boom attached; main body only; main body without crawler frame; etc.

### Variable Gauge Crawler

The variable gauge crawler extends the crawlers for extremely stable operation, and retracts them for easier transport.

### Crawler Width

Shoe	650 mm
Extended	4,200 mm
Retracted	3,400 mm

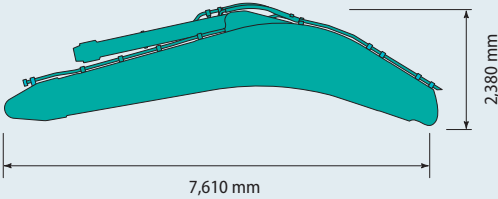
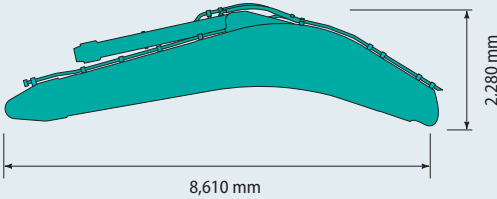
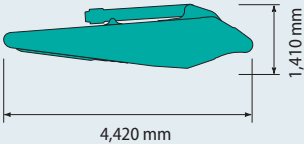
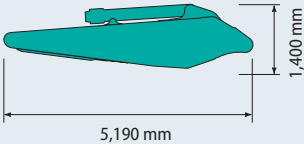
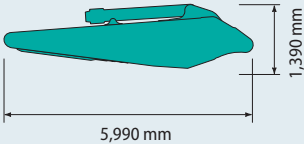
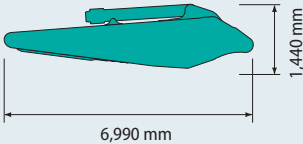
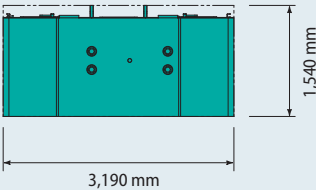
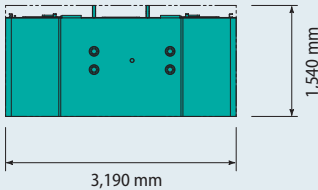
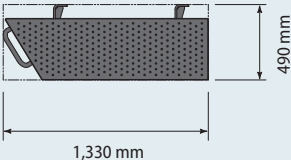
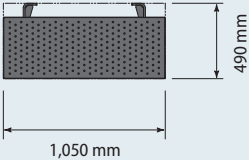
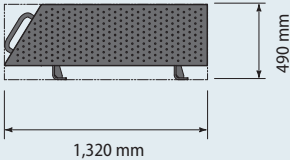
Configuration	Description		Total weight
Plan 1			
	Upperstructure without counterweight	<input type="radio"/>	65,900 kg
	Undercarriage	<input type="radio"/>	
	8.25m Boom	<input type="radio"/>	
	3.60m Arm	<input type="radio"/>	
Plan 2			
	Upperstructure without counterweight	<input type="radio"/>	61,300 kg
	Undercarriage	<input type="radio"/>	
	8.25m Boom	<input type="radio"/>	
	3.60m Arm	–	
Plan 3			
	Upperstructure without counterweight	<input type="radio"/>	50,100 kg
	Undercarriage	<input type="radio"/>	
	8.25m Boom	–	
	3.60m Arm	–	
Plan 4			
	Upperstructure without counterweight	<input type="radio"/>	26,600 kg
	Undercarriage	–	
	8.25m Boom	–	
	3.60m Arm	–	

Standard counterweight: 13,400 kg    ☐ : With    - : Without

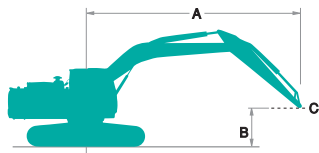




## Transportation

Boom			
7.25 m ME Boom		8.25 m Standard Boom	
Width: 1,310 mm Weight: 8,700 kg		Width: 1,310 mm Weight: 9,220 kg	
			
Arm			
2.90 m	3.60 m	4.40 m	5.40 m
Width: 790 mm Weight: 4,530 kg	Width: 790 mm Weight: 4,680 kg	Width: 790 mm Weight: 5,100 kg	Width: 790 mm Weight: 5,810 kg
			
Counterweight			
Standard counterweight		Heavier counterweight	
Width: 870 mm Weight: 13,400 kg		Width: 870 mm Weight: 16,400 kg	
			
Catwalk			
Catwalk (Front Left)	Catwalk (Left)	Catwalk (Front Right)	
Height: 195 mm Weight: 35 kg	Height: 155 mm Weight: 90 kg (30 kg × 3)	Height: 195 mm Weight: 35 kg	
			

# Lift capacities





























Rating over front

































Rating over side or 360 degrees













A: Reach from swing centreline to arm top  
B: Arm top height above/below ground  
C: Lift capacities in Kilograms  
Relief valve setting: 33.0 MPa














SK850LC		Boom: 8.25 m    Arm: 2.90 m    Bucket: without    Shoe: 650 mm    Standard counterweight: 13,400 kg												
B \ A	A	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		At Max. Reach		
														Radius
10.5 m	kg											*16,260	*16,260	8.01 m
9.0 m	kg							*15,450	*15,450			*15,500	*15,500	9.26 m
7.5 m	kg					*17,080	*17,080	*15,600	*15,600			*15,200	14,460	10.14 m
6.0 m	kg					*18,770	*18,770	*16,410	*16,410	*15,180	13,410	*15,120	12,910	10.72 m
4.5 m	kg					*20,730	*20,730	*17,470	16,490	*15,600	13,070	*15,180	12,000	11.07 m
3.0 m	kg					*22,450	20,380	*18,490	15,840	*16,110	12,710	*15,330	11,540	11.20 m
1.5 m	kg					*23,530	19,670	*19,240	15,340	*16,470	12,420	*15,550	11,470	11.13 m
G.L.	kg					*23,800	19,330	*19,500	15,060	*16,440	12,280	*15,780	11,800	10.84 m
-1.5 m	kg			*28,720	27,000	*23,240	19,300	*19,090	15,020			*15,980	12,640	10.32 m
-3.0 m	kg	*31,790	*31,790	*26,520	*26,520	*21,700	19,540	*17,600	15,270			*16,020	14,260	9.53 m
-4.5 m	kg	*27,330	*27,330	*22,910	*22,910	*18,570	*18,570					*15,610	*15,610	8.39 m














SK850LC		Boom: 8.25 m    Arm: 3.60 m    Bucket: without    Shoe: 650 mm    Standard counterweight: 13,400 kg														
B \ A	A	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		At Max. Reach		
															Radius	
10.5 m	kg													*14,450	*14,450	8.64 m
9.0 m	kg									*14,070	*14,070			*14,030	*14,030	9.81 m
7.5 m	kg									*14,520	*14,520	*13,910	13,900	*13,900	13,560	10.64 m
6.0 m	kg							*17,570	*17,570	*15,470	*15,470	*14,250	13,620	*13,950	12,180	11.20 m
4.5 m	kg					*25,170	*25,170	*19,660	*19,660	*16,670	*16,670	*14,870	13,220	*14,110	11,340	11.53 m
3.0 m	kg							*21,620	20,770	*17,860	16,030	*15,550	12,790	*14,360	10,890	11.66 m
1.5 m	kg					*30,130	27,260	*23,030	19,900	*18,810	15,450	*16,110	12,430	*14,670	10,790	11.58 m
G.L.	kg					*30,390	26,830	*23,690	19,400	*19,330	15,070	*16,360	12,200	*15,040	11,030	11.31 m
-1.5 m	kg			*23,750	*23,750	*29,630	26,810	*23,540	19,220	*19,270	14,910	*16,070	12,140	*15,420	11,690	10.81 m
-3.0 m	kg	*25,770	*25,770	*35,030	*35,030	*27,910	27,070	*22,500	19,330	*18,380	15,000			*15,760	12,990	10.06 m
-4.5 m	kg	*38,430	*38,430	*30,900	*30,900	*24,980	*24,980	*20,220	19,740	*15,930	15,440			*15,920	15,440	9.00 m
-6.0 m	kg			*24,490	*24,490	*19,990	*19,990							*15,460	*15,460	7.47 m













SK850LC		Boom: 8.25 m		Arm: 5.40 m		Bucket: without		Shoe: 650 mm		Standard counterweight: 13,400 kg										
A \ B	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		At Max. Reach		
	B																			Radius
10.5 m	kg													*10,240	*10,240			*9,120	*9,120	10.77 m
9.0 m	kg																	*8,790	*8,790	11.72 m
7.5 m	kg													*10,870	*10,870	*10,700	*10,700	*8,680	*8,680	12.42 m
6.0 m	kg													*11,520	*11,520	*11,010	10,870	*8,730	*8,730	12.90 m
4.5 m	kg									*15,800	*15,800	*13,720	*13,720	*12,370	*12,370	*11,500	10,540	*8,940	8,830	13.19 m
3.0 m	kg							*23,280	*23,280	*18,140	*18,140	*15,180	*15,180	*13,310	12,690	*12,070	10,180	*9,320	8,480	13.30 m
1.5 m	kg							*26,470	*26,470	*20,200	20,060	*16,540	15,340	*14,200	12,140	*12,610	9,830	*9,900	8,350	13.24 m
G.L.	kg					*17,580	*17,580	*28,430	26,490	*21,700	19,100	*17,600	14,670	*14,920	11,690	*13,020	9,550	*10,740	8,440	13.00 m
-1.5 m	kg			*13,330	*13,330	*21,900	*21,900	*29,180	25,830	*22,500	18,510	*18,230	14,230	*15,320	11,390	*13,140	9,380	*11,960	8,780	12.57 m
-3.0 m	kg	*15,570	*15,570	*19,220	*19,220	*28,150	*28,150	*28,870	25,640	*22,550	18,260	*18,300	14,020	*15,250	11,270			*12,800	9,450	11.94 m
-4.5 m	kg	*21,390	*21,390	*26,100	*26,100	*36,360	*36,360	*27,510	25,820	*21,730	18,320	*17,630	14,060	*14,410	11,370			*13,230	10,630	11.06 m
-6.0 m	kg			*34,780	*34,780	*32,280	*32,280	*24,860	*24,860	*19,750	18,680	*15,780	14,400					*13,580	12,750	9.87 m
-7.5 m	kg					*25,950	*25,950	*20,260	*20,260	*15,760	*15,760							*13,600	*13,600	8.22 m

SK850LC		Boom: 7.25 m   ME Arm: 2.90 m   Bucket: without   Shoe: 650 mm   Standard counterweight: 13,400 kg												
A \ B	A	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
														Radius
9.0 m	kg							*18,530	*18,530			*18,580	*18,580	7.97 m
7.5 m	kg							*18,760	*18,760			*17,990	*17,990	8.98 m
6.0 m	kg					*23,530	*23,530	*20,040	*20,040	*18,160	17,680	*17,790	15,750	9.64 m
4.5 m	kg					*27,080	*27,080	*21,810	*21,810	*18,950	17,170	*17,800	14,490	10.02 m
3.0 m	kg					*30,170	29,800	*23,530	21,620	*19,820	16,630	*17,950	13,890	10.17 m
1.5 m	kg					*31,750	28,740	*24,690	20,890	*20,420	16,200	*18,160	13,830	10.08 m
G.L.	kg					*31,690	28,330	*24,940	20,490	*20,400	15,970	*18,390	14,350	9.77 m
-1.5 m	kg			*38,110	*38,110	*30,200	28,350	*24,040	20,440	*19,180	16,020	*18,520	15,630	9.18 m
-3.0 m	kg	*39,190	*39,190	*33,700	*33,700	*27,050	*27,050	*21,400	20,760			*18,300	18,250	8.28 m
-4.5 m	kg			*26,310	*26,310	*21,050	*21,050					*17,030	*17,030	6.94 m

SK850LC		Boom: 8.25 m    Arm: 2.90 m    Bucket: without    Shoe: 650 mm    Heavier counterweight: 16,400 kg												
A	B	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		At Max. Reach		
														Radius
10.5 m	kg											*16,260	*16,260	8.01 m
9.0 m	kg							*15,450	*15,450			*15,500	*15,500	9.26 m
7.5 m	kg					*17,080	*17,080	*15,600	*15,600			*15,200	*15,200	10.14 m
6.0 m	kg					*18,770	*18,770	*16,410	*16,410	*15,180	14,970	*15,120	14,430	10.72 m
4.5 m	kg					*20,730	*20,730	*17,470	*17,470	*15,600	14,630	*15,180	13,460	11.07 m
3.0 m	kg					*22,450	*22,450	*18,490	17,730	*16,110	14,270	*15,330	12,990	11.20 m
1.5 m	kg					*23,530	22,070	*19,240	17,230	*16,470	13,980	*15,550	12,930	11.13 m
G.L.	kg					*23,800	21,730	*19,500	16,950	*16,440	13,840	*15,780	13,300	10.84 m
-1.5 m	kg			*28,720	*28,720	*23,240	21,700	*19,090	16,910			*15,980	14,230	10.32 m
-3.0 m	kg	*31,790	*31,790	*26,520	*26,520	*21,700	*21,700	*17,600	17,160			*16,020	*16,020	9.53 m
-4.5 m	kg	*27,330	*27,330	*22,910	*22,910	*18,570	*18,570					*15,610	*15,610	8.39 m

SK850LC		Boom: 8.25 m   Arm: 3.60 m   Bucket: without   Shoe: 650 mm   Heavier counterweight: 16,400 kg														
B	A	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		At Max. Reach		
														Radius		
10.5 m	kg													*14,450	*14,450	8.64 m
9.0 m	kg									*14,070	*14,070			*14,030	*14,030	9.81 m
7.5 m	kg									*14,520	*14,520	*13,910	*13,910	*13,900	*13,900	10.64 m
6.0 m	kg							*17,570	*17,570	*15,470	*15,470	*14,250	*14,250	*13,950	13,620	11.20 m
4.5 m	kg					*25,170	*25,170	*19,660	*19,660	*16,670	*16,670	*14,870	14,780	*14,110	12,730	11.53 m
3.0 m	kg							*21,620	*21,620	*17,860	*17,860	*15,550	14,350	*14,360	12,270	11.66 m
1.5 m	kg					*30,130	*30,130	*23,030	22,300	*18,810	17,340	*16,110	13,990	*14,670	12,170	11.58 m
G.L.	kg					*30,390	30,110	*23,690	21,800	*19,330	16,960	*16,360	13,760	*15,040	12,450	11.31 m
-1.5 m	kg			*23,750	*23,750	*29,630	*29,630	*23,540	21,620	*19,270	16,800	*16,070	13,700	*15,420	13,200	10.81 m
-3.0 m	kg	*25,770	*25,770	*35,030	*35,030	*27,910	*27,910	*22,500	21,730	*18,380	16,890			*15,760	14,630	10.06 m
-4.5 m	kg	*38,430	*38,430	*30,900	*30,900	*24,980	*24,980	*20,220	*20,220	*15,930	*15,930			*15,920	*15,920	9.00 m
-6.0 m	kg			*24,490	*24,490	*19,990	*19,990							*15,460	*15,460	7.47 m

SK850LC		Boom: 8.25 m    Arm: 5.40 m    Bucket: without    Shoe: 650 mm    Heavier counterweight: 16,400 kg																			
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		At Max. Reach			
																			Radius		
10.5 m	kg													*10,240	*10,240			*9,120	*9,120	10.77 m	
9.0 m	kg																	*8,790	*8,790	11.72 m	
7.5 m	kg													*10,870	*10,870	*10,700	*10,700	*8,680	*8,680	12.42 m	
6.0 m	kg													*11,520	*11,520	*11,010	*11,010	*8,730	*8,730	12.90 m	
4.5 m	kg									*15,800	*15,800	*13,720	*13,720	*12,370	*12,370	*11,500	*11,500	*8,940	*8,940	13.19 m	
3.0 m	kg							*23,280	*23,280	*18,140	*18,140	*15,180	*15,180	*13,310	*13,310	*12,070	11,510	*9,320	*9,320	13.30 m	
1.5 m	kg							*26,470	*26,470	*20,200	*20,200	*16,540	*16,540	*14,200	13,700	*12,610	11,160	*9,900	9,540	13.24 m	
G.L.	kg					*17,580	*17,580	*28,430	*28,430	*21,700	21,490	*17,600	16,560	*14,920	13,260	*13,020	10,880	*10,740	9,650	13.00 m	
-1.5 m	kg				*13,330	*13,330	*21,900	*21,900	*29,180	29,100	*22,500	20,910	*18,230	16,120	*15,320	12,950	*13,140	10,710	*11,960	10,040	12.57 m
-3.0 m	kg	*15,570	*15,570	*19,220	*19,220	*28,150	*28,150	*28,870	*28,870	*22,550	20,660	*18,300	15,910	*15,250	12,830			*12,800	10,790	11.94 m	
-4.5 m	kg	*21,390	*21,390	*26,100	*26,100	*36,360	*36,360	*27,510	*27,510	*21,730	20,710	*17,630	15,950	*14,410	12,930			*13,230	12,100	11.06 m	
-6.0 m	kg				*34,780	*34,780	*32,280	*32,280	*24,860	*24,860	*19,750	*19,750	*15,780	*15,780				*13,580	*13,580	9.87 m	
-7.5 m	kg						*25,950	*25,950	*20,260	*20,260	*15,760	*15,760						*13,600	*13,600	8.22 m	

SK850LC		Boom: 7.25 m   ME Arm: 2.90 m   Bucket: without   Shoe: 650 mm   Heavier counterweight: 16,400 kg												
A	B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
														Radius
9.0 m	kg							*18,530	*18,530			*18,580	*18,580	7.97 m
7.5 m	kg							*18,760	*18,760			*17,990	*17,990	8.98 m
6.0 m	kg					*23,530	*23,530	*20,040	*20,040	*18,160	*18,160	*17,790	17,480	9.64 m
4.5 m	kg					*27,080	*27,080	*21,810	*21,810	*18,950	*18,950	*17,800	16,140	10.02 m
3.0 m	kg					*30,170	*30,170	*23,530	*23,530	*19,820	18,520	*17,950	15,520	10.17 m
1.5 m	kg					*31,750	*31,750	*24,690	23,290	*20,420	18,090	*18,160	15,470	10.08 m
G.L.	kg					*31,690	31,600	*24,940	22,890	*20,400	17,860	*18,390	16,050	9.77 m
-1.5 m	kg			*38,110	*38,110	*30,200	*30,200	*24,040	22,840	*19,180	17,920	*18,520	17,470	9.18 m
-3.0 m	kg	*39,190	*39,190	*33,700	*33,700	*27,050	*27,050	*21,400	*21,400			*18,300	*18,300	8.28 m
-4.5 m	kg			*26,310	*26,310	*21,050	*21,050					*17,030	*17,030	6.94 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 pin 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.



## Standard and Optional Equipment

Category	Description	SK850LC-11	
		Standard	Mass excavation
ENGINE	ISUZU 6WG1 engine (EU Stage V compliant)	●	●
	Exhaust DOC DPD SCR system	●	●
	Alternator 24 V /90 A	●	●
	Starter motor 24 V/7 kW	●	●
	Batteries 2x 12 V (205 Ah)	●	●
	Reversible hydraulic drive cooling fan	●	●
	Auto deceleration function	●	●
	Auto Idle Stop (AIS)	●	●
HYDRAULIC SYSTEM	3 work modes H, S, Eco	●	●
	Auto warm up system	●	●
	Proportional hand control (for Rotation & N&B piping)	●	○
	Hydraulic oil VG32	●	●
	Hydraulic oil VG46	○	○
PIPING	Hydraulic oil VG68	○	○
	Rotation & N&B piping	●	○
	Standard piping	—	●
CABIN	QH piping	●	○
	Air suspension seat with heating	●	●
	10-inch colour monitor	●	●
	LED door light	●	●
	Air-conditioner	●	●
	DAB+ radio (FM/AM & AUX & USB & Bluetooth* & hands-free telephone)	●	●
	Parallel wiper	●	●
	12V power outlet	●	●
	Rain visor	○	○
	Sun screen	●	●
LIGHTS	Large footrest	●	●
	LED work lights ; 2 on boom, 1 on upper frame, 4 on rear counterweight, 1 on under cab	●	●
	LED work lights ; 2 on cab top front	○	○
WORKING EQUIPMENT	Standard boom (8.25 m)	●	○
	ME boom (7.25 m)	—	●
	Short arm (2.90 m)	○	●
	Standard arm (3.60 m)	●	—
	Semi long arm (4.40 m)	○	—
	Long arm (5.40 m)	○	—
COUNTERWEIGHT	Standard C/W (13,400 kg)	●	●
	Heavier C/W (16,400 kg)	○	○
UNDERCARRIAGE	650 mm double grouser shoe	●	●
	750 mm double grouser shoe	○	○
	900 mm double grouser shoe	○	○
	Track guides (Three per side)	●	●
	Full track guide	○	○
	Lower frame guard	●	●
SAFETY	Engine emergency stop switch	●	●
	Emergency accel dial	●	●
	Emergency manual valve for lowering attachment	●	●
	Safety valve for boom and arm cylinder	●	○
	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	○	○
	Emergency escape hammer	●	●
OTHERS	Refueling pump	●	●
	Harness for engine room light	●	●
	Hoisting kit	○	○
	RAL color	○	○
	K-LOAD	●	●
	KOMEXS	●	●

\*The air conditioning system on this machine contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1.1 kg (CO<sub>2</sub> equivalent 1.6 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.

Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice.

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