

KOBELCO

SK135SR/SK140SR_{LC}-7

Performance  Design

SK135SR SK140SR_{LC}

■ Bucket capacity:

0.38 – 0.50 m³

■ Engine power:

73.0 kW/2,000 min⁻¹

■ Operating weight:

14,300 – 16,400 kg



We Save You Fuel
Achieving a Low-Carbon Society





Performance Design

With the release of the SK135SR-7 and SK140SRLC-7, KOBELCO has completely harmonised the values of PERFORMANCE and DESIGN.

The SK135SR delivers greater efficiency and productivity with increased power and speed, along with uncompromising operator comfort and machine operability.

In the pursuit of producing unique and unbeatable machines that provide comfort and productivity without equal, KOBELCO continues to rise to the challenge.

THE ULTIMATE SLEEK AND STYLISH CAB DESIGN

True ergonomic functionality combined with modern design has resulted in a cabin interior that is sleek and comfortable, built for simplicity and operator comfort.

Jog dial

The jog dial integrates multiple functions to allow for simple navigation of machine information screens, even while wearing gloves.

LED backlights

LED backlighting on switches and dials provides a bright, clear view of controls, even in the dark, while delivering a premium look and feel.







UNFORGETTABLE COMFORT

① 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.



② Optimal air conditioning vent placement

Air conditioning vents are optimally placed around the cabin with air flow directed toward the operator's neck and back, providing more comfortable operation.

③ Ergonomic and low-effort pilot control levers

Pilot control levers are mounted on adjustable consoles, with an ergonomic design that allows movement without twisting, reducing operator fatigue.



New Hydraulic Control

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

④ LED door light

The LED interior light automatically turns on when the door is opened or when the ignition is set to OFF. This ensures easy entry and exit at nighttime.

⑤ 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.



KOBELCO

ECO

04:33



SETTING MENU



PICTURE OF
CAMERA



CLOCK
SETTING



SCREEN
BRIGHTNESS



MAINTENANCE



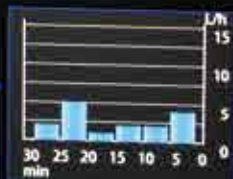
CONSUMPTION



LANGUAGE
SELECTION



PRESSURE
RELEASE



AVERAGE FUEL
CONSUMPTION 4L/h
OPERABLE
TIME 12 h



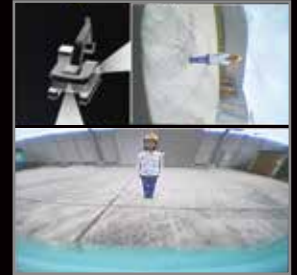
A WIDER VIEW BRINGS A WIDER RANGE OF USE

10-inch colour monitor—the largest in the industry

The easy-to-operate menu screen facilitates easy reading and navigation. Images from the built-in cameras can be checked on the large screen, which helps to improve safety. In addition, each icon is easily recognisable.



The right camera and rear camera (right side view mode)

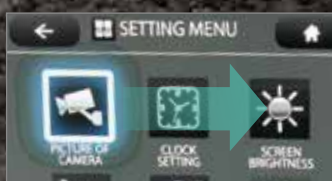


The right camera and rear camera (straight view mode)



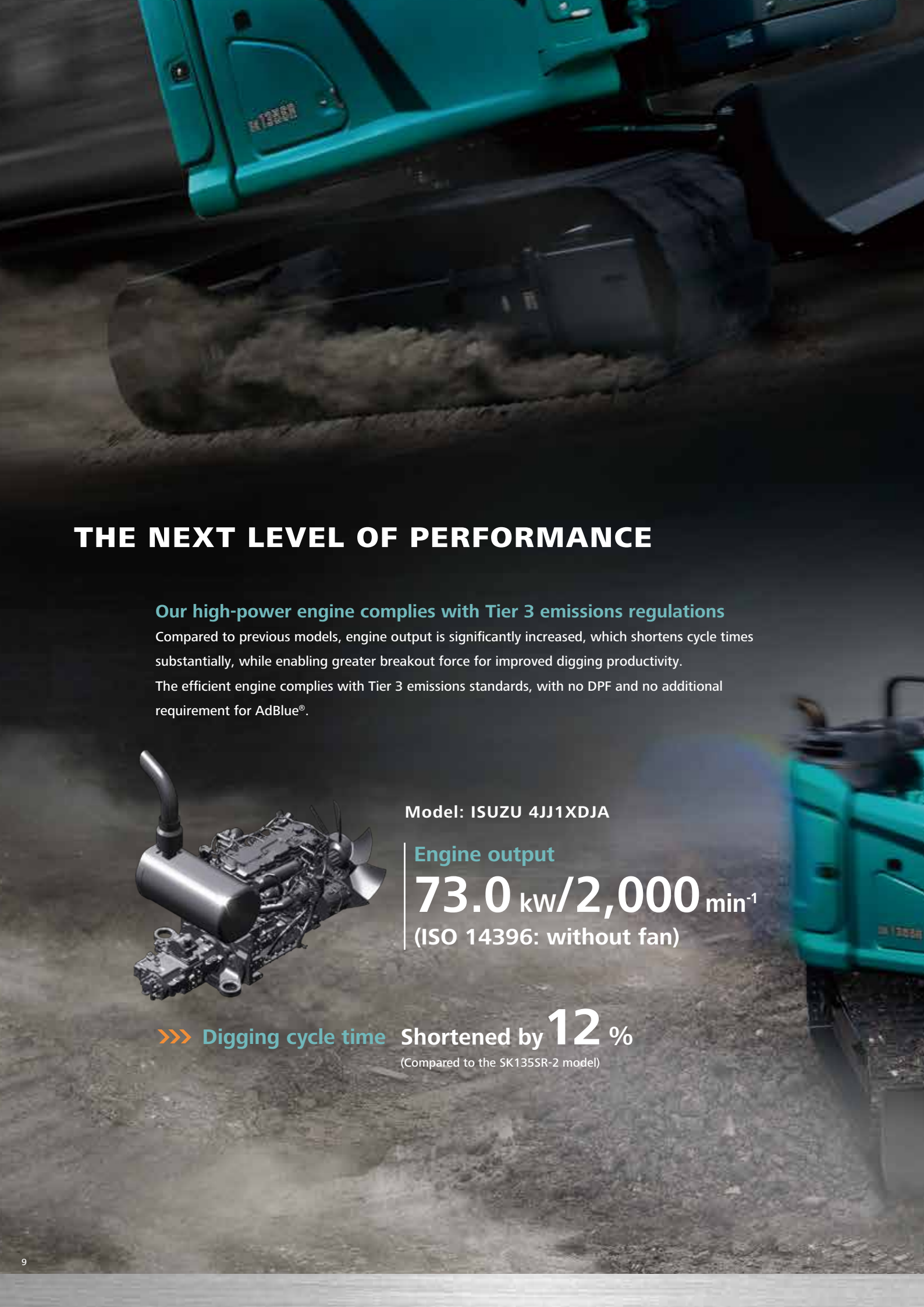
SAFETY ON FULL DISPLAY

Our high-resolution, large display shows right, left and rear side cameras together. Multiple camera modes allow operators to customize their display based on their needs to enhance awareness and jobsite safety.



Screen display linked with the jog dial operation

The jog dial provides simple and intuitive control of all display screens. Turn the jog dial to the right or left to select an item and press the dial to confirm the selection.



THE NEXT LEVEL OF PERFORMANCE

Our high-power engine complies with Tier 3 emissions regulations

Compared to previous models, engine output is significantly increased, which shortens cycle times substantially, while enabling greater breakout force for improved digging productivity.

The efficient engine complies with Tier 3 emissions standards, with no DPF and no additional requirement for AdBlue®.



Model: ISUZU 4JJ1XDJA

Engine output

73.0 kW/2,000 min⁻¹
(ISO 14396: without fan)

»» Digging cycle time Shortened by **12 %**
(Compared to the SK135SR-2 model)



Bucket Digging Force

105.4 kN (ISO6015)

Increased by **17** %

(Compared to the SK135SR-2 model)

GREATER MULTI-FUNCTION CAPABILITIES

Attachment mode

The flow-rate modes of the bucket, breaker, nibbler, and rotating grapple are set before delivery, which allows you to start operating immediately. Mode settings for other attachments, such as the tilt rotator, can easily be added or changed.

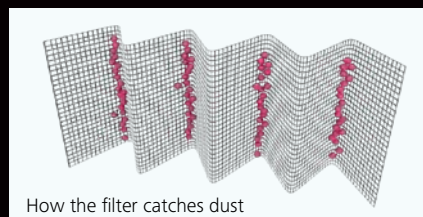
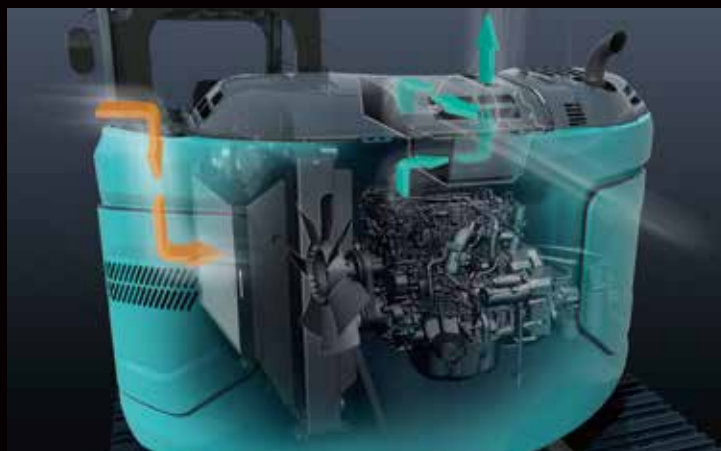


Adjustment for hydraulic flow

Divide ratio of hydraulic flow can be adjusted by service factory for custom usage.



NON-STOP OPERATION BY iNDr



iNDr Filter

A high-density stainless steel mesh filter blocks dust and debris from entering the cooling package during air intake. This prevents the cooling package and air cleaner from clogging, allowing the machine to maintain cooling performance. The ridges of the corrugated filter allow air to pass through, while the grooves collect dust and debris, preventing the filter from clogging.

CONVENIENT AND SENSIBLE EQUIPMENT



Adjustable height pilot control levers

Operator can adjust height of attachment control levers.



AM/FM Bluetooth® (hands-free) radio

Audio streaming and hands free phone calling capability.
**"Bluetooth®" is a registered trademark of the Bluetooth SIG Inc.



USB port / 12V power outlet



Smartphone holder

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



Opening Top guard

The Top guard is hinged, allowing easy access to the top window for serviceability.



Rear camera



Left camera



Right camera

Standard built-in rear, left and right side cameras

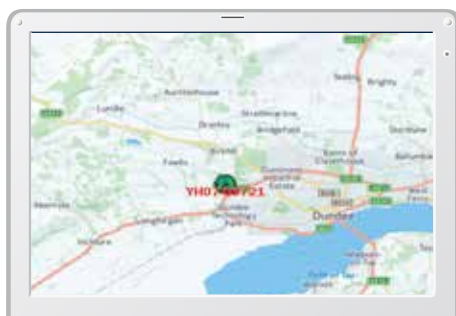
Excavator Remote Monitoring System



Direct Access to Operational Status

Location Data

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

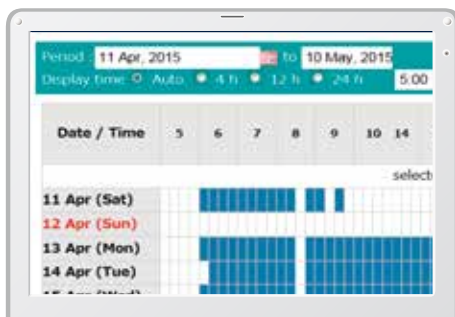


Type of Operation	Working Hrs	Ratio
Total Working Hrs	169 Hrs	100 %
Digging Hrs	72.2 Hrs	43 %
Traveling Hrs	18.3 Hrs	11 %
Idle Hrs	15.9 Hrs	9 %
Opt Att Hrs	62.5 Hrs	37 %
Crane Mode Hrs	0 Hrs	0 %

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 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

Specifications

Engine

Model	ISUZU 4JJ1XDJA
Type	Four-cycle, liquid-cooled, direct injection diesel, turbo charged, Tier 3 certified
No. of cylinders	4
Bore and stroke	95.4 mm x 104.9 mm
Displacement	2.999 L
Rated 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)

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 Extra gear pump 1 x 60 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
Pilot control pump	Gear type
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
Swing torque	40.4 kN·m

Attachments

Backhoe bucket and combination

Use			Backhoe bucket		
			Normal digging		
Bucket capacity	ISO heaped	m ³	0.38	0.45	0.50
	struck	m ³	0.28	0.35	0.38
Opening width	With side cutter	mm	800	915	1,000
	Without side cutter	mm	740	855	940
No. of teeth			4	4	5
Bucket weight		kg	340	360	390
Combination	2.38m standard arm		○	○	◎
	2.84m long arm		◎	△	×

◎ Standard ○ Recommend △ Loading only × Not recommended

Travel system

Travel motors	Variable displacement piston, two-speed motors
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	44 each side (SK135SR)
	46 each side (SK140SRLC)
Travel speed	3.4 / 5.6 km/h
Drawbar pulling force	141 kN (ISO 7464)
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

Dozer blade (optional)

Dozer cylinder	125 mm x 220 mm
Dimension	2,490 mm {for 500 mm shoe} (width) x 570 mm (height)*
Working range	500 mm (up) x 590 mm (down)

*Dozer width is changed according to the shoe width difference.

Refilling capacities & lubrications

Fuel tank	186 L
Cooling system	17 L
Engine oil	17 L
Travel reduction gear	2 x 2.1 L
Swing reduction gear	1.65 L
Hydraulic oil tank	89.9 L tank oil level
	182 L hydraulic system

SK135SR SK140SR_{LC}

SK135SR-7

SK140SR_{LC}-7



Working ranges

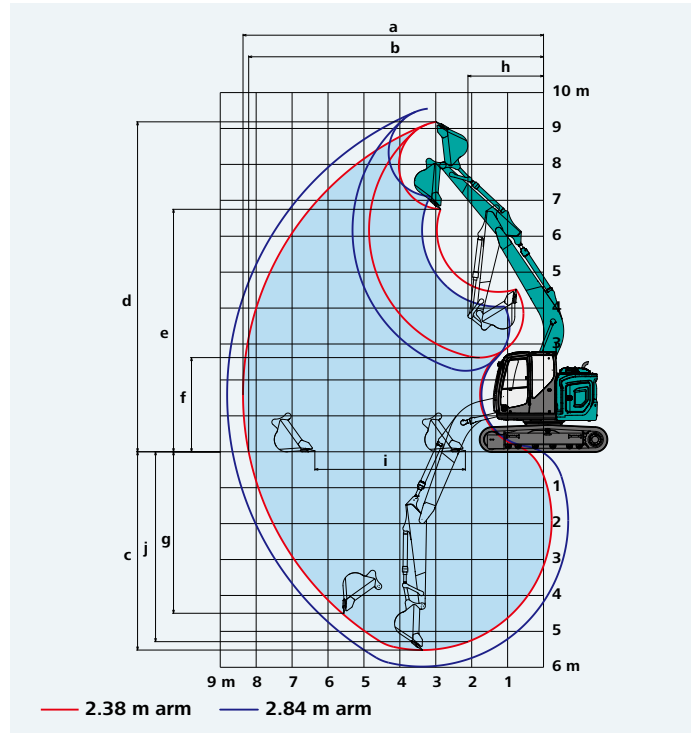
Unit: m

Boom		4.68 m	
Arm		2.38 m	2.84 m
Range			
a- Max. digging reach		8.37	8.81
b- Max. digging reach at ground level		8.21	8.66
c- Max. digging depth		5.52	5.98
d- Max. digging height		9.18	9.55
e- Max. dumping clearance		6.75	7.11
f- Min. dumping clearance		2.62	2.25
g- Max. vertical wall digging depth		4.50	4.95
h- Min. swing radius		2.13	2.52
i- Horizontal digging stroke at ground level		4.19	4.67
j- Digging depth for 2.4 m (8') flat bottom		5.29	5.78
Bucket capacity ISO heaped m ³		0.50	0.38

Digging force (ISO 6015)

Unit: kN

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



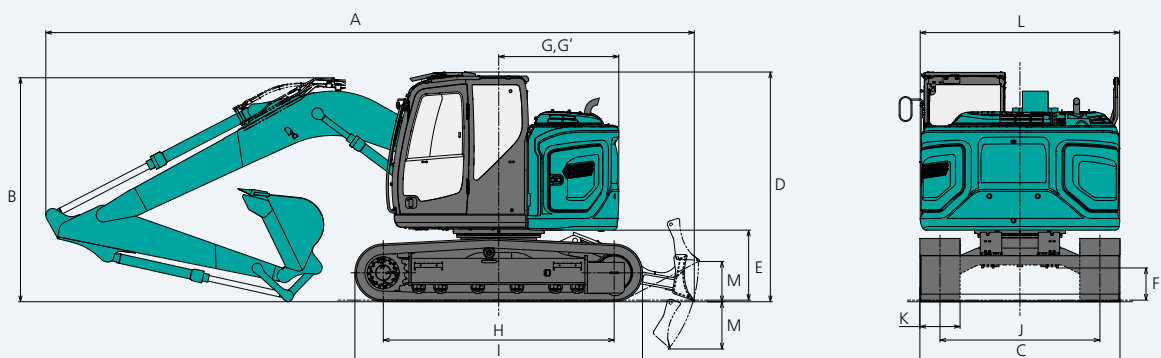
Dimensions

Unit: mm

Arm length		2.38 m	2.84 m
A	Overall length	8,070	8,080
B	Overall height (to top of boom)	2,790	3,140
C	Overall width	2,490*	
D	Overall height (to top of cab)	2,860	
E	Ground clearance of rear end**	870	
F	Ground clearance**	400	
G	Tail swing radius	1,490	

G'	Distance from centre of swing to rear end	1,490
H	Tumbler distance	SK135SR 2,870 SK140SR _{LC} 3,040
I	Overall length of crawler	SK135SR 3,580 SK140SR _{LC} 3,750
J	Track gauge	1,990
K	Shoe	500
L	Overall width of upperstructure	2,480
M	Dozer blade (up / down)***	500 / 590

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

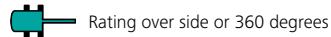
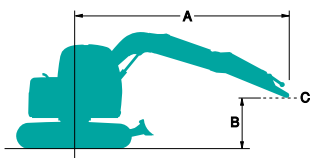


Operating weight & ground pressure











In standard trim, with standard boom, 2.38 m arm, and 0.50 m³ ISO heaped bucket (SK140SR_{LC}-7 extra 580 kg weight)











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	SK135SR	44.9	38.2	33.2
	SK135SR with blade	47.5	40.4	35.1
	SK140SR _{LC}	45.0	38.3	33.2
	SK140SR _{LC} with blade	47.4	40.3	35.0
	SK140SR _{LC} with blade (2.84 m arm)	47.3	40.3	35.0
Operating weight	SK135SR	14,300	14,600	14,800
	SK135SR with blade	15,100	15,400	15,600
	SK140SR _{LC}	15,100	15,400	15,600
	SK140SR _{LC} with blade	15,900	16,200	16,400
	SK140SR _{LC} with blade (2.84 m arm)	15,900	16,200	16,400













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}











SK135SR		Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Less										
A B		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		
												Radius
7.5 m	kg									*2,270	*2,270	3.80 m
6.0 m	kg					*3,390	*3,390			*1,800	*1,800	5.55 m
4.5 m	kg			*4,280	*4,280	*3,670	3,410	3,090	2,110	*1,670	*1,670	6.50 m
3.0 m	kg			*6,540	5,910	*4,420	3,160	3,000	2,020	*1,670	1,550	6.99 m
1.5 m	kg			*5,240	5,110	4,440	2,880	2,870	1,910	*1,760	1,460	7.14 m
G.L.	kg			*6,020	4,890	4,240	2,710	2,770	1,820	*1,980	1,480	6.94 m
-1.5 m	kg	*5,300	*5,300	*8,050	4,900	4,180	2,660	2,750	1,790	*2,430	1,660	6.39 m
-3.0 m	kg	*9,070	*9,070	*6,440	5,050	4,260	2,720			3,310	2,160	5.36 m

SK135SR		Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Blade up										
A B		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		
												Radius
7.5 m	kg									*2,270	*2,270	3.80 m
6.0 m	kg					*3,390	*3,390			*1,800	*1,800	5.55 m
4.5 m	kg			*4,280	*4,280	*3,670	3,590	3,170	2,230	*1,670	*1,670	6.50 m
3.0 m	kg			*6,540	6,230	*4,420	3,340	3,080	2,150	*1,670	1,660	6.99 m
1.5 m	kg			*5,240	*5,240	4,560	3,060	2,950	2,030	*1,760	1,560	7.14 m
G.L.	kg			*6,020	5,210	4,360	2,890	2,860	1,940	*1,980	1,580	6.94 m
-1.5 m	kg	*5,300	*5,300	*8,050	5,220	4,300	2,840	2,830	1,920	*2,430	1,770	6.39 m
-3.0 m	kg	*9,070	*9,070	*6,440	5,370	4,380	2,900			*3,380	2,310	5.36 m

SK135SR		Arm: 2.84 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Blade up												
A B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														Radius
7.5 m	kg					*2,320	*2,320					*2,050	*2,050	4.59 m
6.0 m	kg					*2,960	*2,960	*2,080	*2,080			*1,710	*1,710	6.11 m
4.5 m	kg					*3,270	*3,270	*3,090	2,270			*1,590	*1,590	6.98 m
3.0 m	kg			*5,660	*5,660	*4,060	3,400	3,100	2,160			*1,590	1,490	7.44 m
1.5 m	kg			*7,810	5,590	4,610	3,100	2,960	2,030	*2,080	1,430	*1,660	1,410	7.58 m
G.L.	kg			*6,210	5,200	4,360	2,880	2,840	1,930			*1,850	1,420	7.40 m
-1.5 m	kg	*4,540	*4,540	*8,410	5,150	4,260	2,800	2,790	1,880			*2,210	1,560	6.88 m
-3.0 m	kg	*7,630	*7,630	*7,100	5,240	4,300	2,820					2,880	1,950	5.94 m
-4.5 m	kg			*4,370	*4,370							*2,770	*2,770	4.28 m

SK140SR _{LC}		Arm: 2.84 m Bucket: Without Counterweight: 3,150 kg + 580 kg Shoe: 500 mm Dozer: Blade up												
A B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														Radius
7.5 m	kg					*2,320	*2,320					*2,050	*2,050	4.59 m
6.0 m	kg					*2,960	*2,960	*2,080	*2,080			*1,710	*1,710	6.11 m
4.5 m	kg					*3,270	*3,270	*3,090	2,530			*1,590	*1,590	6.98 m
3.0 m	kg			*5,660	*5,660	*4,060	3,770	*3,390	2,420			*1,590	*1,590	7.44 m
1.5 m	kg			*7,810	6,250	*4,960	3,470	3,580	2,290	*2,080	1,630	*1,660	1,600	7.58 m
G.L.	kg			*6,210	5,860	5,330	3,260	3,460	2,180			*1,850	1,620	7.40 m
-1.5 m	kg	*4,540	*4,540	*8,410	5,800	5,230	3,170	3,400	2,140			*2,210	1,780	6.88 m
-3.0 m	kg	*7,630	*7,630	*7,100	5,900	*4,830	3,200					*3,030	2,210	5.94 m
-4.5 m	kg			*4,370	*4,370							*2,770	*2,770	4.28 m

SK140SR _{LC}		Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg + 580 kg Shoe: 600 mm Dozer: Less											
A <													

SK140SR _{LC}		Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg + 580 kg Shoe: 600 mm Dozer: blade up											
<div><div>A</div><div>B</div></div>		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach			
												Radius	
7.5 m	kg									*2,270	*2,270	3.80m	
6.0 m	kg					*3,390	*3,390			*1,800	*1,800	5.55m	
4.5 m	kg			*4,290	*4,290	*3,670	*3,670	*3,370	2,540	*1,670	*1,670	6.50m	
3.0 m	kg			*6,540	*6,540	*4,420	3,770	*3,620	2,450	*1,670	*1,670	6.99m	
1.5 m	kg			*5,240	*5,240	*5,240	3,500	3,630	2,330	*1,760	*1,760	7.14m	
G.L.	kg			*6,020	5,980	5,420	3,320	3,530	2,250	*1,980	1,840	6.94m	
-1.5 m	kg	*5,300	*5,300	*8,040	5,990	5,360	3,270	3,510	2,220	*2,430	2,050	6.39m	
-3.0 m	kg	*9,070	*9,070	*6,440	6,140	*4,450	3,340			*3,380	2,660	5.36m	

- 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.

STANDARD EQUIPMENT

ENGINE

- Engine, ISUZU MOTORS LIMITED 4JJ1XDJA,
Direct injection type, with turbocharger, Tier3 certified
- 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)
- Rotating & N&B piping (proportional hand controlled)
- Quick hitch piping

SWING SYSTEM & TRAVEL SYSTEM

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

MIRRORS, LIGHTS & CAMERAS

- Left side rear view mirror, Eagle-eye view camera (Rear, Right, Left)
- LED work lights:
2 on boom, 1 on upper frame, 2 on rear counterweight

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- LED door light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- GRAMMER* air suspension seat with heater
- Retractable seatbelt
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Opening top guard (ISO 10262: 1998)
- Tinted safety glass
- Pull-type front window and removable lower front window
- Easy-to-read 10-inch LCD SCREEN multi-display monitor
- Automatic air conditioner
- Emergency escape hammer
- Radio (AUX & USB & Bluetooth®)
- Hands-free telephone
- 12 V converter
- Travel alarm
- GEOSCAN
- Large footrest
- Front roll screen

OPTIONAL EQUIPMENT

- Various optional arms
- Wide range of shoes
- Wide range of buckets
- Front-guard protective structure (may interfere with bucket action)
- Additional counterweight (+580 kg)
- Additional counterweight (+1,000 kg)
- Cab top work LED lights (two lights)
- Mechanical suspension seat
- Rain visor (may interfere with bucket action)
- Additional track guide
- Dozer Blade (for 500 mm, 600 mm, 700 mm shoe)
- Multi control valve

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

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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.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Tokyo, JAPAN
www.kobelcocm-global.com



Enquiries To: