



SK 140 LG

KOBELCO

Bucket capacity:
 0.50 – 0.57 m³

Engine power:
 73.0 kW / 2,000 min⁻¹

Operating weight:
 13,900 – 14,800 kg





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.



Machines representative of global product. Options may not be available in your markets.

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.

4

Optimum operability for various sites

New hydraulic system

NUMBER OF

101

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.



(Compared to SK140LC-8 model)

Digging volume per hour

Increased by 0% (Compared to SK140LC-8 at H mode)



Model: ISUZU 4JJ1XDJA

Engine output 73.0 kw/2,000 min⁻¹

KOBELCO



UNFORGETTABLE COMFORT

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.

S 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.





😉 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.

- 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.

8

KOMEXS KOBELCO MONITORING EXCAVATOR SYSTEM



Direct Access to Operational Status

Location Data

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







Latest location

9

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

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.

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

Working Hrs

2:06

0:00

169:19

171:25

Fuel Consumption Data

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

Total Fuel

mption

24.5 L

0.0 L

1489.7 L

1514.2 L

Fuel consumption

Serial No.

YH07-09721

YH07-09789

0.38/0.35

0.38/0.35 YQ13-10454

0.8/0.7 YQ13-10481

0.8/0.7

YT08-30374

Model

SK135SRLC-

3/5K1405RL

SK135SRLC-

3/SK1405RL

SK210LC-9

SK210LC-9

SK75SR-

Hour

Meter

734 Hr

73.Hr

960 Hr

549 Hr

Engine Oil

434

429

58

498

Work mode

H mode

S mode

E mode

TOTAL

Warning Alerts

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

Maintenance

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.



Daily/Monthly Reports

• Operational data downloaded onto a computer helps in formulating daily and monthly reports.

Alarm messages can be received on mobile device.

Security System

Engine Start Alarm

• The system can be set an alarm if the machine is operated outside designated time.

Setting Condition	
Setting Condition Change	
Start time 20 💌 : 00 💌	
Release time 07 💌 : 00 💌	
No Working Whole Day	
Mon Tue Wed Thu Fri Sat Sun	
四 四 四 四 四 四 四	

Area Alarm

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

Around the current (latest) location 1		1 Km
Input Latitude and Lon	ogitude	
Latitude1		
Longitude1		
Latitude2		
Longitude2		
Мар	Clear	
Release		

Engine start alarm outside prescribed work time

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 toolbox space cooling system elements) Laid out for easy access to radiator and cooling system.



Wide storage space for toolbox



Openable air conditioner condenser Easy to clean inside



Battery shut-off switch

Specifications



Engine

Model	ISUZU 4JJ1XDJA
Туре	Four cycles, 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 ml
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)

Tydraulic system

Pump			
Туре	Two variable displacement axial 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		

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 (1st/2nd)	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

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

Refilling capacities & lubrications

Fuel tank	280 L
Cooling system	16 L
Engine oil	17 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



Backhoe bucket and combination

Use -		Backhoe bucket		
		Normal digging		
Dualiat anna situ	ISO heaped m ³	0.50	0.57	
вискет сарасіту	ISO Struck m ³	0.37	0.40	
Opening width	With side cutter mm	1,000	1,150	
	Without side cutter mm	940	1,070	
No. of teeth		5 5		
Bucket weight	kg	420 470		
Combination	2.09 m	0	0	
	2.38 m	Ø	0	

 \bigcirc Standard \bigcirc Recommended

Specifications

Working ranges

		Unit: mm
Boom	4.68 m	
Arm	2.09 m	2.38 m
a- Max. digging reach	8,040	8,340
a'-Max. digging reach at ground level	7,870	8,170
b- Max. digging depth	5,230	5,520
c- Max. digging height	8,200	8,450
d- Max. dumping clearance	5,850	6,080
e- Min. dumping clearance	2,580	2,280
f- Max. vertical wall digging depth	4,810	4,450
g- Min. front swing radius	2,750	2,750
j- Digging depth for 2.4 m (8') flat bottom	4,950	5,280
k- Horizontal digging stroke at ground level	3,600	4,200
Bucket capacity ISO heaped m ³	0.57	0.50

Digging force (ISO 6015)	Unit: kN	
Arm length	2.09 m	2.38 m
Bucket digging force	107	105
Arm crowding force	72.3	64.0



Dimensions

			Unit: mm			
A	rm length	2.09 m	2.38 m			
А	Overall length	7,800	7,770			
В	Overall height (to top of boom)	2,780	2,750			
С	Overall width	2,590				
D	Overall height (to top of cab)	2,8	360			
Е	Ground clearance of rear end*	910				
F	Ground clearance*	44	40			

G	Tail swing radius	2,190
G'	Distance from center of swing to rear end	2,170
н	Tumbler distance	3,040
T	Overall length of crawler	3,750
J	Track gauge	1,990
К	Shoe width	600
L	Overall width of upper structure	2,490

*Without including height of shoe lug





Operating weight & ground pressure In standard trim, with standard boom, 2.38 m arm and 0.50 m³ ISO heaped bucket

Shaped	Triple grouser shoes (even height)								
Counterweight		2,600 kg		3,000 kg					
Shoe width mn	5 00	600	700	500	600	700			
Overall width of crawler mn	a 2,490	2,590	2,690	2,490	2,590	2,690			
Ground pressure kP	4 1.4	35.1	30.6	42.6	36.1	31.5			
Operating weight kg	j 13,900	14,100	14,400	14,300	14,500	14,800			

Lift capacities



Rating over front

Rating over side or 360 degrees

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	2	Arm: 2.09	m Bucket:	without Co	ounterweigh	t with swing	J flashers: 2,	600 kg Shc	e: 600 mm			
	А	1.5	m	3.0 m		4.5 m		6.0 m		At max. reach		
		L	— —	L	— —	ł	— —	L	— —	ł	—	Radius
6.0 m	kg					*3,390	*3,390			*2,500	*2,500	5.16 m
4.5 m	kg					*3,680	*3,680	*3,210	2,410	*2,330	2,290	6.16 m
3.0 m	kg			*6,920	6,540	*4,550	3,580	3,680	2,340	*2,340	1,970	6.67 m
1.5 m	kg					*5,510	3,340	3,570	2,240	*2,500	1,860	6.81 m
G.L.	kg			*5,980	5,790	5,350	3,200	3,500	2,170	*2,870	1,910	6.60 m
-1.5 m	kg	*5,950	*5,950	*8,950	5,830	5,330	3,180	3,500	2,170	3,490	2,170	6.01 m
-3.0 m	kg			*7,480	6,000	*5,040	3,270			*4,450	2,950	4.88 m

SK140L	c	Arm: 2.09	m Bucket:	without Co	bunterweigh	t with swing	j flashers: 3,	000 kg Sho	e: 600 mm				
	А	1.5	m	3.0 m		4.5	4.5 m		6.0 m		At max. reach		
		ł		L	— —	L	— —	L	#	L	—	Radius	
6.0 m	kg					*3,390	*3,390			*2,500	*2,500	5.16 m	
4.5 m	kg					*3,680	*3,680	*3,210	2,580	*2,330	*2,330	6.16 m	
3.0 m	kg			*6,920	*6,920	*4,550	3,840	*3,790	2,510	*2,340	2,130	6.67 m	
1.5 m	kg					*5,510	3,590	3,800	2,420	*2,500	2,020	6.81 m	
G.L.	kg			*5,980	*5,980	5,700	3,460	3,720	2,350	*2,870	2,070	6.60 m	
-1.5 m	kg	*5,950	*5,950	*8,950	6,290	5,670	3,430	3,730	2,350	*3,650	2,350	6.01 m	
-3.0 m	kg			*7,480	6,450	*5,040	3,530			*4,450	3,170	4.88 m	

SK140LC		Arm: 2.38	m (HD) Bu	cket: withou	t Counterv	veight with s	wing flashe	rs: 2,600 kg	Shoe: 600	mm		
	А	1.5	m	3.0 m		4.5 m		6.0 m		At max. reach		
				L	—		— —	Ŀ	,	ł	—	Radius
6.0 m	kg					*				*1,790	*1,790	5.56 m
4.5 m	kg					*3,400	*3,400	*3,310	2,420	*1,660	*1,660	6.49 m
3.0 m	kg			*6,250	*6,250	*4,290	3,600	*3,610	2,340	*1,660	*1,660	6.98 m
1.5 m	kg			*5,430	*5,430	*5,300	3,350	3,560	2,230	*1,760	1,730	7.11 m
G.L.	kg			*6,230	5,750	5,340	3,180	3,480	2,150	*1,980	1,770	6.91 m
-1.5 m	kg	*5,410	*5,410	*9,140	5,760	5,290	3,140	3,460	2,130	*2,440	1,990	6.34 m
-3.0 m	kg	*9,240	*9,240	*7,890	5,900	*5,310	3,210			*3,650	2,590	5.29 m

SK140LC		Arm: 2.38 m (HD) Bu		ıcket: withou	t Counterv	Counterweight with swing flashers: 3,000 kg Shoe: 600						
	А	1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		
В		ł	-	ł	— —		,	L	,	ł	—	Radius
6.0 m	kg									*1,790	*1,790	5.56 m
4.5 m	kg					*3,400	*3,400	*3,310	2,600	*1,660	*1,660	6.49 m
3.0 m	kg			*6,250	*6,250	*4,290	3,860	*3,610	2,510	*1,660	*1,660	6.98 m
1.5 m	kg			*5,430	*5,430	*5,300	3,600	3,790	2,410	*1,760	*1,760	7.11 m
G.L.	kg			*6,230	6,200	5,680	3,440	3,700	2,330	*1,980	1,920	6.91 m
-1.5 m	kg	*5,410	*5,410	*9,140	6,220	5,630	3,390	3,680	2,310	*2,440	2,150	6.34 m
-3.0 m	kg	*9,240	*9,240	*7,890	6,360	*5,310	3,460			*3,650	2,800	5.29 m

1. 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. 2. 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,

2. 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 sudden stopping of loads, hazardous conditions, experience of personnel, etc.

3. Arm top is defined as lift point.

4. 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.

5. 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. 6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.



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)
- Alternator 24 V/50 A
- Starter motor 24 V/4.0 kW
- 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
- Standard counterweight with swing flashers
- 600 mm steel shoes
- Grease-type track adjusters
- Automatic swing brake
- Travel alarm

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- LED Room light (interior)
- Left side rear view mirror
- Coat hook
- Large cup holderDetachable two-piece floor mat
- 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
- KOMEXS
- N&B piping
- Refueling pump

OPTIONAL EQUIPMENT

- Short HD arm (2.09 m)
- Cab top work lights (LED) (two lights)
- Lower under cover (9 mm)
- 500 mm steel shoes

- 700 mm steel shoes
- Front-guard protective structure (may interfere with bucket action)
- Rear view camera
- Heavy counterweight with swing flashers (+ 400 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.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

5-15, Kitashinagawa 5-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135 www.kobelcocm-global.com

PAN	Inquiries To:	