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# Performance

With the release of the SK140LC-11, KOBELCO has completely harmonised the values of PERFORMANCE and DESIGN. The SK140 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.

Design



## 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

#### Air suspension seat

A GRAMMER<sup>®</sup> seat is installed as standard equipment, which achieves excellent shock absorption and superior ride comfort.

#### **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 **W**

#### 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.





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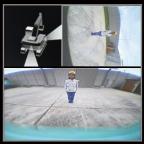
## **A WIDER VIEW BRINGS A WIDER RANGE OF USE**

#### 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

L/h 15

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

Eng

#### 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<sup>®</sup>.

Model: ISUZU 4JJ1XDJA

**73.0**kw/2,000min<sup>-1</sup> (ISO14396 Without fan)

Bucket Digging Force 105.4 kN (ISO6015) Increased by 17% (Compared to the SK140 model)

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## **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.

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## EASY MAINTENANCE











**Fuel filter** 



**Engine oil filter** 



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



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



Two-stage air filter



Pre air cleaner



Left side (radiator and tool box space cooling system elements) Laid out for easy access to radiator and cooling system.



Wide storage space for tool box



Openable airconditioner condenser Easy to clean inside



Battery shut-off switch

## **CONVENIENT AND SENSIBLE EQUIPMENT**



SK140

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.



USB port / 12V power outlet



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

# GEOSCAN

## **Excavator Remote Monitoring System**



#### **Direct Access to Operational Status**

#### **Location Data**

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







Latest location

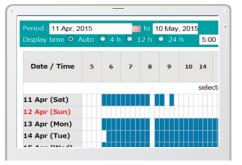
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Work data

#### **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.

#### **Fuel Consumption Data**

• 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

**Total Fuel** 

Consumption

24.5 L

0.0 L

1489.7 L

1514.2 L

#### **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

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

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

Maintenance

Model

SK135SRLC-

3/SK140SRL

SK135SRLC-

3/SK140SRL

SK210LC-9

SK210LC-9

SK75SR-

#### 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.



#### **Daily/Monthly Reports**

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

Alarm messages can be received on a mobile device.

#### **Security System**

#### Engine Start Alarm

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

	—	
etting Condition	n	
Setting Conditio	n Change	
Start time 20	: 00 🔽	
Release time 0	/▼:00▼	
No Working Wh	ole Day	
Mon Tue Wed Th	u Fri Sat Sun	

#### Area Alarm

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

Around the current (lates	st) location	1 Km
Input Latitude and Longi	tude	
Latitude1		
Longitude1		
Latitude2		
Longitude2		
Мар	Clear	1
Release		

Engine start alarm outside prescribed work time

Alarm for outside of reset area

## **Specifications**

## Engine

Model	ISUZU 4JJ1XDJA	
Туре	Four-cycle, liquid-cooled, direct injection type, with turbocharger, Tier 3 certified	
No. of cylinders 4		
Bore and stroke	95.4 mm x 104.9 mm	
Displacement 2.999 L		
Dower output	65.4 kW/2,000 min <sup>-1</sup> (ISO 9249: with fan)	
Power output	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)	

## 😵 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	
Max. discharge now	Extra gear pump 1 × 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	

One fixed displacement piston motor Hydraulic; locking automatically when the

Wet multiple plate 11.0 min<sup>-1</sup>

2,190 mm

40.4 kN·m

swing control lever is in the neutral position

## Travel system

Travel motors	Variable displacement 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°deg}

## 🔁 Cab & control

Cab	
,	ound-suppressed steel cab mounted on the silicon-sealed ts and equipped with a heavy, insulated floor mat
Control	
Two hand lev	ers and two foot pedals for travel
Two hand lev	ers for excavating and swing
<b>FI 1 1</b>	and the set of the set

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

## 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
Hudraulic oil tank	96.7 L tank oil level
Hydraulic oil tank	186 L hydraulic system



Swing system

Swing motor

Parking brake

Swing speed Tail swing radius

Swing torque

Brake

Backhoe bucket and combination

Use -		Backhoe bucket Normal digging		
bucket capacity	struck m <sup>3</sup>	0.28	0.35	0.37
Opening width	With side cutter mm	800	915	1,000
opening width	Without side cutter mm	740	855	940
No. of teeth		4	4	5
Bucket weight kg		340	360	390
Combination	2.38m standard arm	0	0	0
	2.84m long arm	0	$\land$	Х

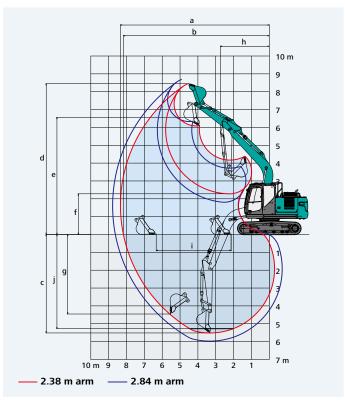
 $\bigcirc$  Standard  $\bigcirc$  Recommend  $\triangle$  Loading only  $\times$  Not recommended



## Working ranges

Unit:			
Boom	4.68 m		
Arm Range	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>	0.50	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

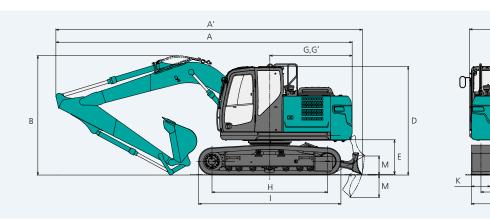


## Dimensions

Arm length		2.38 m	2.84 m
А	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
С	Overall width	2,590	
D	Overall height (to top of cab)	2,910	
Е	Ground clearance of rear end*	910	
F	Ground clearance* (with dozer**/without dozer)	400/415	

G	Tail swing radius	2,190
G'	Distance from centre of swing to rear end	2,170
н	Tumbler distance	3,040
Т	Overall length of crawler	3,750
J	Track gauge	1,990
к	Shoe width	600
L	Overall width of upperstructure	2,590
М	Dozer blade (up / down)**	500/585

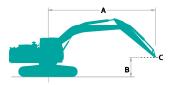
\*Without including height of shoe lug \*\*Dozer blade is optional equipment



## **Operating weight & ground pressure** In standard trim, with standard boom, 2.38 m arm, and 0.50 m<sup>3</sup> ISO heaped bucket

Shaped		Triple grouser shoes (even height)		t)	
Shoe width	mm		500	600	700
Overall width of crawler	mm		2,490	2,590 2,690 35.1 30.7	
Ground pressure	kPa	SK140LC without dozer	41.4	35.1	30.7
Giouna pressure	кга	SK140LC with dozer	43.8	37.2	32.4
On constinue constants	ka	SK140LC without dozer	13,900	14,200	14,400
Operating weight	kg	SK140LC with dozer	14,700	15,000	15,200

## 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 capacities in Kilograms Bucket: Without bucket Relief valve setting: 34.3 MPa {350kgf/cm<sup>2</sup>}

Arm: 2.38 m Bucket: without Counterweight: 2,400 kg Shoe: 500 mm Dozer: without SK140LC 4.5 m 6.0 m 1.5 m 3.0 m At max. reach Radius **----**₲ **—** ـ r \*1,800 6.0 m kg \*1,800 5.56 m 4.5 m \*3,400 \*3,400 \*3,300 2,330 \*1,670 \*1,670 6.49 m kg 3.0 m \*6,230 \*6,230 \*4,270 3,470 3,560 2,240 \*1,670 \*1,670 6.98 m kg 1.5 m kg \*5,440 \*5,440 \*5,280 3,200 3,440 2,130 \*1,760 1,650 7.11 m G.L. kg \*6,240 5,470 5,140 3,030 3,340 2,040 \*1,980 1,680 6.91 m \*5,410 \*9,080 5,480 2,980 -1.5 m kg \*5,410 5,080 3,320 2,020 \*2,450 1,890 6.34 m 3,050 -3.0 m kg \*9,240 \*9,240 \*7,830 5,630 5,170 \*3,650 2,470 5.30 m

SK140LC	:	Arm: 2.8	84 m Bucl	ket: witho	ut Counte	rweight: 2	2,400 kg 🧐	Shoe: 500	mm Doze	r: without					
A		1.5 m		3.0 m		4.5 m		6.0	6.0 m		7.5 m		At max. reach		
В		ł	<b>—</b> —	L	<b>—</b>	L	<b>-</b>	L	<b>-</b>	ł	<b>—</b>	L	<b>#</b>	Radius	
7.5 m	kg											*2,030	*2,030	4.62 m	
6.0 m	kg							*2,090	*2,090			*1,700	*1,700	6.12 m	
4.5 m	kg							*2,960	2,360			*1,590	*1,590	6.97 m	
3.0 m	kg			*5,240	*5,240	*3,850	3,530	*3,330	2,260			*1,580	1,570	7.43 m	
1.5 m	kg			*7,940	5,840	*4,940	3,240	3,450	2,130	*1,960	1,510	*1,660	1,490	7.55 m	
G.L.	kg			*6,390	5,460	5,140	3,030	3,330	2,020			*1,850	1,510	7.36 m	
-1.5 m	kg	*4,640	*4,640	*8,880	5,410	5,050	2,940	3,280	1,980			*2,220	1,660	6.84 m	
-3.0 m	kg	*7,770	*7,770	*8,360	5,510	5,080	2,970					*3,060	2,080	5.88 m	
-4.5 m	kg			*5,960	5,800							*3,960	3,510	4.19 m	

SK140LC		Arm: 2.38	m Bucket:	without Co	unterweigh	t: 2,400 kg	Shoe: 500 n	nm Dozer: v	vith dozer u	р		
	А	1.5	m	3.0	m	4.5	m	6.0	m	A	At max. reac	h
В		ł	<b>—</b>	F	<b>—</b>	L	<b>—</b>	F	₩-	F	<b>—</b>	Radius
6.0 m	kg									*1,800	*1,800	5.56 m
4.5 m	kg					*3,400	*3,400	*3,300	2,460	*1,670	*1,670	6.49 m
3.0 m	kg			*6,230	*6,230	*4,270	3,660	3,560	2,370	*1,670	*1,670	6.98 m
1.5 m	kg			*5,440	*5,440	*5,280	3,390	3,440	2,260	*1,760	1,750	7.11 m
G.L.	kg			*6,240	5,800	5,140	3,220	3,340	2,170	*1,980	1,790	6.91 m
-1.5 m	kg	*5,410	*5,410	*9,080	5,820	5,080	3,170	3,320	2,150	*2,450	2,010	6.34 m
-3.0 m	kg	*9,240	*9,240	*7,830	5,960	5,160	3,240			*3,650	2,620	5.30 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, 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, Tier 3 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)
- Auger & Breaker piping (proportional hand controlled)
- Extra 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, rear view camera, right and left side view camera
- Three front working lights (LED)
- Swing flashers

#### **OPTIONAL EQUIPMENT**

- Long arm (2.84m)
- Wide range of shoes
- Wide range of buckets
- Front-guard protective structure (may interfere with bucket action)
- Heavier counterweight (+200 kg, +600 kg)
- Cab top work LED lights (two lights)

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

#### 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<sup>®</sup> 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 & Bluetooth®)
- Hands-free telephone
- 12 V converter
- USB port
- Eagle eye view
- Travel alarm
   GEOSCAN
- Level indicator

- Mechanical suspension seat
- Rain visor (may interfere with bucket action)
- Additional track guide
- Roll sun shade
- Dozer Blade (for 500mm, 600mm, 700mm shoe)
- Multi control valve



Note: Bluetooth<sup>®</sup> is a registered trademark of the Bluetooth SIG Inc. GRAMMER<sup>®</sup> is trademark of GRAMMER AG. registered in Germany and other countries. AdBlue<sup>®</sup> is a registered trademark of the Verband der Automobilindustrie e.V. (VDA).

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