

**SK 140**  
**SK145XDLC**

**STANDARD EQUIPMENT**

**ENGINE**

- Engine, ISUZU 4JJ1, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12 V - 110 Ah)
- Starting motor (24 V - 4 kW), 50 amp alternator
- Engine oil pan drain valve
- Double element air cleaner
- Pre-air cleaner

**BUCKET**

- 0.60 m<sup>3</sup> bucket

**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
- Sealed track links
- Grease-type track adjusters
- Automatic swing brake
- Lower under side cover\*
- 500 mm HD shoe plate

**HYDRAULIC**

- Aluminum hydraulic oil cooler
- Pilot line filter

**MIRRORS & LIGHTS**

- Two rear view mirrors
- Three front working LED lights (one for boom, one for cab and one for right storage box)

**CAB & CONTROL**

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- Cab, all-weather sound suppressed type
- Cab light (interior)
- Coat hook
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Double slide seat
- Mechanical suspension seat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Pull-up type front window and removable lower front window
- Easy-to-read color monitor
- Automatic air conditioner
- Emergency escape hammer
- 24 V outlet
- Excavator Remote Monitoring System

**OPTIONAL EQUIPMENT**

- Two cab LED lights
- Rear view camera
- 0.70 m<sup>3</sup> bucket\*
- Breaker piping
- N&B piping

- HD short arm 2.09 m
- HD long arm 2.84 m
- 700 mm HD shoe plate
- Travel alarm

\*for SK145XDLC

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

Note: This catalog 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 notice. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalog may be reproduced in any manner without permission.

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■ **Bucket Capacity :**

0.60–0.70 m<sup>3</sup> (ISO heaped)

■ **Engine Power :**

97.9 HP (73.0 kW)/2,000 min<sup>-1</sup>  
(ISO 14396)

■ **Operating Weight :**

13,100–14,200 kg

# Power Meets Efficiency

Increase in  
productivity  
means  
"Power"

Higher fuel  
saving  
means  
"Efficiency"

In line with KOBELCO's concept of robust construction machinery that will work long and hard on any site on the planet, the rugged machine body is newly designed, and comprehensive reinforcement makes the attachment more robust.

It all adds up to KOBELCO's toughest ever excavator.

The latest hydraulics technology delivers both high-powered output and lower fuel consumption.

As the 10th generation model of KOBELCO's SK series, the SK140 meets the needs of civil engineering and the SK145XDLC meets the needs of the punishing sites with a performance that simply astounds.

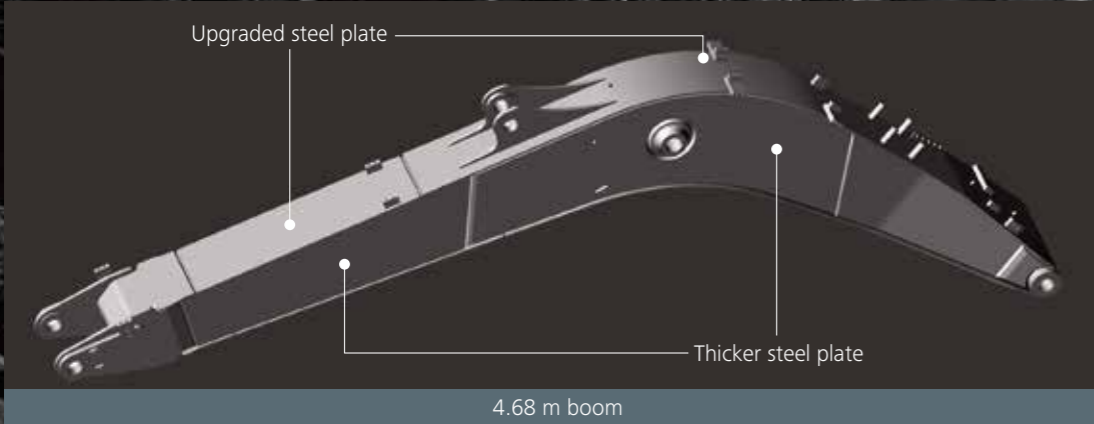


# Even Stronger Attachment

Increase in productivity means "Power"

Newly Developed Robust Arm and Boom Made of Optimized Steel Plate

Improved Boom Strengthened by Optimized Steel Plate



The 4.68 m boom features thicker and upgraded plates compared to the previous boom, which delivers more strength for the toughest working conditions.



## Rock Guards

Specially designed long, solid rock guards installed to prevent damage to arm.

Improved Arm Exhibits Strength



The 2.09 m arm features thicker and upgraded plates compared to the previous arm, which delivers more strength for the toughest working conditions.

The boom and arm that take the greatest punishment are significantly reinforced.

# Increase in Productivity Means "Power"

Powerful travel system for easy transit over loose rocks, and highly reliable filtration system ensure higher machine performance.



## Crawlers Built for Unbeatable Durability



Outside



Inside

### Reinforced Guide Frame

Reinforced guide frame prevents deformation caused by impact or encroaching of loose stones. (For SK145XDLC only)



### Track Guides

Large, reinforced track guides are installed in one location.



### Lower Frame Underside Cover

Hydraulic piping and equipment protected against damage from rubble and stony ground. (Standard for SK145XDLC)

## Improved Filtration System Reliability

Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance. The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

### Pilot Line Filter

An enlarged cartridge-type pilot filter simplifies maintenance.



### Hydraulic Fluid Filter

Recognized as the best in the industry, our premium-fine filter separates out even the smallest particles. New cover prevents contamination when changing filters.



# Evolution Continues, with Improved Fuel Efficiency

Higher fuel saving means "Efficiency"

The arm regeneration flow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency.

**2.38 m Arm**

■ Max. bucket digging force Normal: <b>89.2 kN</b>	■ Max. digging reach: <b>8,380 mm</b>
■ Max. arm crowding force Normal: <b>57.9 kN</b>	■ Max. digging depth: <b>5,560 mm</b>
	■ Max. vertical digging depth: <b>5,120 mm</b>

## Energy Saving System Saves Fuel Further

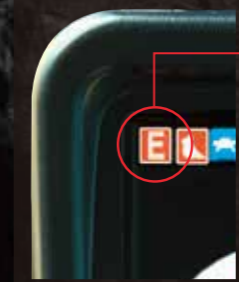
### Fuel Efficient Work Mode ECO-mode

The fuel-saving ECO-mode is newly provided to the work mode, selectable according to a desired operation. Fuel consumption can be greatly reduced.

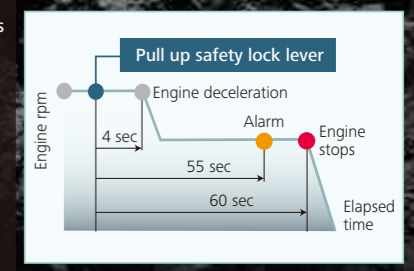
### AIS (Auto Idle Stop)

If the boarding/disembarking lever is lifted up, the engine will stop automatically. This eliminates wasteful idling during standby, saving fuel and reducing CO<sub>2</sub> emissions as well.

### Operation Mode



- E** **ECO-mode**  
Minimum fuel consumption for utility projects and other work that demands precision
- H** **H-mode**  
Maximum power for maximum productivity on your toughest jobs
- S** **S-mode**  
Ideal balance of productivity and fuel efficiency for a range of urban engineering projects



## Bucket with Power and Efficiency

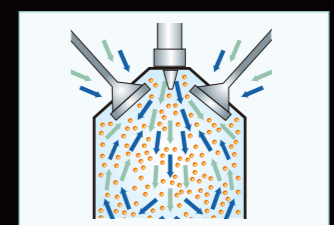
Improved bucket shape reduces resistance while excavating. Excellent on-site performance leads to higher productivity.



## Pursuing Maximum Fuel Efficiency

### Common Rail System

High-pressure injection atomizes the fuel, and more precise injection improves combustion efficiency. This also contributes to better fuel economy.



# Comfortable Cab Is Now Safer than Ever.

A work environment that is quieter and more comfortable. A cab that puts the operator first is key to improved safety.



## Large cab

4 % larger than the previous cab capacity. Relaxing environment allows work to be performed in comfort.

## Air Conditioner Louvers behind the Seat



The large air-conditioner has louvers on the back pillars that blow from behind and to the right and left of the operator's seat. They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable operating environment.

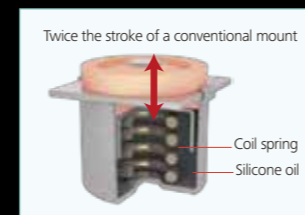
## Super-Airtight Cab



The high level of air-tightness keeps dust out of the cab.

## Low Vibration

Coil springs absorb small vibrations, and high suspension mounts filled with silicone oil reduce heavy vibration. The long stroke achieved by this system provides excellent protection from vibration.



## Multi-Display in Color

Brilliant colors and graphic displays are easy to recognize on the LCD multi-display in the console. The display shows fuel consumption, maintenance intervals, and more.



- 1 Analog gauge provides an intuitive reading of fuel level and engine water temperature
- 2 Green indicator light shows low fuel consumption during operation
- 3 Fuel consumption/Switch indicator for rear camera images
- 4 Digging mode switch
- 5 Monitor display switch

## One-Touch Attachment Mode Switch

A simple touch of a button, switches the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.

## Comfort



## Broad View Liberates the Operator

The front window features one large piece of glass without a center pillar on the right side for a wide, unobstructed view.

## Large Cab Is Easy to Get in and Out of

The expanded cab provides plenty of room for a large door, more headroom and smoother entry and exit.



## More Comfortable Seat Means Higher Productivity

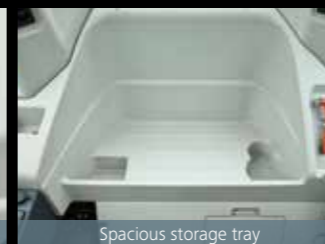


## A Light Touch on the Lever Means Smoother, Less Tiring Work



It takes 38% less effort to work the operation lever, which reduces fatigue over long working hours or continued operations.

## Interior Equipment Adds to Comfort and Convenience



## Safety

### 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.



### Wide view during operations High Visibility for Safety



Greater safety assured by rearview mirrors on left and right.



A rear view camera is installed as option to simplify checking for safety behind the machine. The picture appears on the color monitor.

# Efficient Maintenance Keeps the Machine in Peak Operating Condition



Examples of displaying maintenance information

## Machine Information Display Function

- Displays only the maintenance information that's needed, when it's needed
- Self-diagnostic function provides early-warning detection and display of electrical system malfunctions
- Service-diagnostic function makes it easier to check the status of the machine
- Record function of previous breakdowns including irregular and transient malfunction

## Pre-Air Cleaner (Optional for SK140)

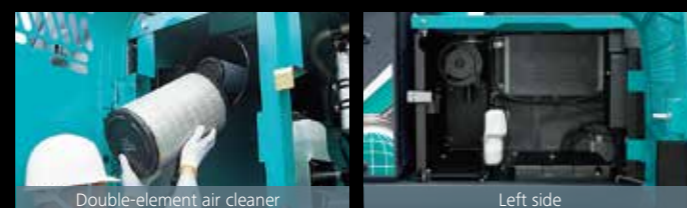
Superior capacity of new pre-air cleaner equipped as standard on SK145XDLC keeps the engine running clean even in tough environments. Collected contaminant is automatically discharged to outside.



Pre-air cleaner

## Maintenance Work, Daily Checks, Etc., Can Be Done from Ground Level

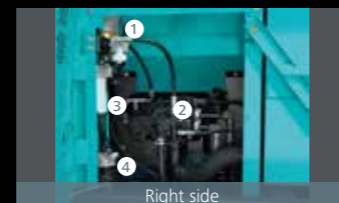
The layout allows for easy access from the ground for many daily checks and regular maintenance tasks.



Double-element air cleaner

Left side

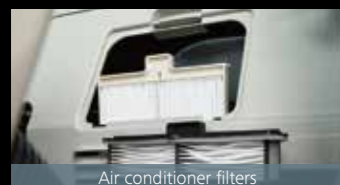
Laid out for easy access to radiator and cooling system elements



Right side

- 1 Pre-fuel filter with built-in water-separator
- 2 Pilot line filter
- 3 Main fuel filter
- 4 Third filter

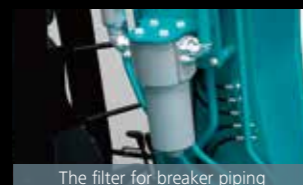
## More Efficient Maintenance Inside the Cab



Air conditioner filters

Internal and external air conditioner filters can be easily removed without tools for cleaning.

## Easy Maintenance



The filter for breaker piping

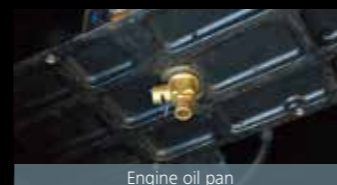
The Kobelco original filter for breaker piping is installed with breaker hydraulic line.

## Easy Cleaning



Detachable two-piece floor mat

Detachable two-piece floor mat with handles for easy removal. A floor drain is located under floor mat.



Engine oil pan

Engine oil pan equipped with drain valve.

## EXCAVATOR REMOTE MONITORING SYSTEM

Remote Monitoring System is a satellite-based system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.

### Direct Access to Operational Status

#### Location Data

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

#### Operating Hours

A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable. Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.

#### Fuel Consumption Data

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

#### Graph of Work Content

The graph shows how working hours are divided among different operating categories, including digging, idling, traveling, and optional operations (NGB).

Note: Remote monitoring system is not applicable in some area due to country regulation of the communication lines or availability of infrastructure.



### 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.

#### Security System

##### Engine Start Alarm

Sends a notification if the engine is started outside of pre-defined hours.

##### Area Alarm

Sends a notification if the machine leaves a pre-defined area.

## Specifications

**SK140** SK140-10E **SK145XDLC** SK145XDLC-10E

## Engine

Model	ISUZU 4JJ1
Type	Four cycle, water cooled, overhauled camshaft, vertical in-line, direct injection type, with turbocharger
No. of cylinders	4
Bore and stroke	95.4 mm x 104.9 mm
Displacement	2.999 L
Rated power output	65.4 kW / 2,000min <sup>-1</sup> (ISO 9249 : with fan)
	73.0 kW / 2,000 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	341 N·m / 1,600 min <sup>-1</sup> (ISO 9249 : with fan)
	365 N·m / 1,600 min <sup>-1</sup> (ISO 14396: without fan)

## Hydraulic System

Pump	
Type	Two variable displacement pumps + one gear pump
Max. discharge flow	2 x 130.4 L/min, 1 x 20 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm <sup>2</sup> }
Travel circuit	34.3 MPa {350 kgf/cm <sup>2</sup> }
Swing circuit	28.0 MPa {286 kgf/cm <sup>2</sup> }
Control circuit	5.0 MPa {51 kgf/cm <sup>2</sup> }
Pilot control pump	Gear type
Main control valve	12-Spool valve
Oil cooler	Air cooled type

## Swing System

Swing motor	Axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Oil disc brake, hydraulic operated automatically
Swing speed	10.9 min <sup>-1</sup> {rpm}
Tail swing radius	2,330 mm
Min. front swing radius	2,620 mm

## Attachments

Backhoe bucket and combination

Use	Backhoe bucket			
	Normal digging			
Bucket capacity	ISO heaped	m <sup>3</sup>	0.60 (Bolt the side cutter)	0.70 (Bolt the side cutter)
	ISO Struck	m <sup>3</sup>	0.43	0.50
Opening width	With side cutter	mm	1,120	1,270
	Without side cutter	mm	1,010	1,160
No. of teeth			5	5
Bucket weight		kg	540	590
Combination	2.09 m with R/G	SK140	⊙	—
	2.38 m (Middle east Africa only)	SK145XDLC	○	⊙
		SK140	△	—
2.84 m	SK145XDLC	○	△	—
	SK140	—	—	—

⊙ Standard combination ○ Recommended △ Loading only — Not applicable

## Travel System

Travel motors	2 x axial-piston, two-step motors	
Travel brakes	Hydraulic brake per motor	
Parking brakes	Oil disc brake per motor	
Travel shoes	SK140	44 each side
	SK145XDLC	46 each side
Travel speed (Low / High)	3.3 / 5.7 km/h	
Drawbar pulling force	142 kN (14,500 kgf) SAE	
Gradeability	70% {35°}	

## Cab & 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	

## Boom, Arm & Bucket

Boom cylinders	100 mm x 1,092 mm
Arm cylinder	115 mm x 1,116 mm
Bucket cylinder	95 mm x 903 mm

## Refilling Capacities & Lubrications

Fuel tank	271 L
Cooling system	12 L
Engine oil	17 L
Travel reduction gear	2 x 2.1 L
Swing reduction gear	1 x 1.65 L
Hydraulic oil tank	94.5 L tank oil level
	197 L hydraulic system

