ENGINE
- Engine, ISUZU AR-4JJ1XASK-01, Diesel engine with turbocharger and intercooler, Tier 4 certified
- Auto idle Stop
- Automatic engine deceleration
- Batteries (2 x 12V - 80 Ah)
- Starting motor (24 V - 5kW), 50 amp alternator
- Engine oil pan drain cock
- Double-element air cleaner
- Refueling pump

CAB & CONTROL
- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right-side-type control box
- Cab light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- Kit suspension seat with heater
- Retractable seatbelt
- Headrests
- Handsraps
- Intermittent windshield wiper with double-spray washer
- Skip light
- Top guard (ISO 10262 : 1998)
- Tinted safety glass
- Pull-type front window and removable lower front window
- Easy-to-read multi-display monitor
- Automatic air conditioner
- Emergency escape hammer
- EU radio (AUX & USB & Bluetooth)
- 12V converter

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

MIRRORS, LIGHTS & CAMERAS
- Rear view mirrors, rearview camera and side view camera
- Three-front working lights

OPTIONAL EQUIPMENT
- Various optional arms
- Wide range of shoes
- Front-guard protective structure (may interfere with bucket action)
- Extra piping (proportional hand controlled) (Applicable for Offset boom)
- Add-on type counterweight (+580 kg)
- Cab additional light
- 3-way adjustable suspension seat
- Rain visor (may interfere with bucket action)
- Travel alarm
- Breaker piping (Applicable for Offset boom)
- Lower under cover
- Shovel blade (for 500 mm, 600 mm and 700 mm shoe)
- Offset boom (with shovel)
- Two-piece boom
- Quick Hitch piping

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 area. 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.

KOBELCO CONSTRUCTION MACHINERY EUROPE B.V.
Veluwezoom 15
1327 AC Almere
The Netherlands
www.kobelco-europe.com

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Power Meets Efficiency
With iNDr for even quieter operation.

SK140SR\textit{LC}

“KOBELCO has made the short rear swing excavator the standard for mid-sized machines. And with ongoing development in innovations such as the iNDr noise reduction system that both shuts out dust and cuts noise, KOBELCO is boosting value and leading the industry with construction machinery ideally suited to the urban environment. The new SK140SRLC retains the compact shape and iNDr system advantages that KOBELCO has pioneered, but it has been fitted with a new and larger engine assembly for improved environmental protection. Low fuel consumption is balanced against increased work performance, and machine durability has been advanced. The new worldwide-model SK140SRLC. Working for the planet.”
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Wide, clear view to the rear

Even with the larger engine compartment, the design minimizes hood height, ensuring an excellent direct view to the rear. In addition, the operator can monitor conditions behind the machine with clear, wide-angle images from the rear-view camera, which comes as standard equipment.

The Results Are Exceptional. The Big Merits:

**“Ultimate Low Noise” is achieved by minimizing sound leakage during operation**

- Noise from the engine and cooling fan is absorbed by the duct, so the machine far surpasses legal requirements. Kobelco’s new system, which exceeds all noise standards, “Ultimate Low Noise,” and it reduces noise to 95dB(A).

Eliminating dust maintains cooling system performance

- The high-density 60-mesh filter* blocks out dust in the intake air. This prevents clogging of the cooling system and the air cleaner, which maintains peak performance. The waveform filter allows air to flow through the tops of the waves while collecting dust at the bottom, ensuring a smooth airflow.

Easy filter maintenance system simplifies cleaning

- Daily inspection consists of a visual check of the INDr filter only. If it looks dirty, it can be removed and washed without special tools.

NOx emissions cut

- NOx reduction rate measured on site: 88% (compared to previous model)

New, Environmentally Friendly Engine

- New TIER IV Final compliance engine

- The new type of TIER IV Final compliant engine is fitted with a diesel oxidation catalyst (DOC) and an SCR device to control emissions without using a diesel particulate filter (DPF). It has a large-capacity DEF/AdBlue tank, extending intervals between fills.

NOx emissions cut

- At high temperatures, nitrogen and oxygen combine to produce nitrous oxides (NOx). Reducing the amount of oxygen and lowering the combustion temperature results in much less NOx.

PM emissions cut

- Particulate matter (PM) is mostly soot resulting from incomplete combustion. Improved combustion efficiency reduces PM emissions. Filter further reduces PM emissions.

A newly developed engine raises the bar for construction machinery

- The latest Kobelco construction machinery uses an ISUZU engine that is renowned for environmental performance, and has been tuned specifically for use in Kobelco machines. This new, environmentally friendly engine changes conventional views on balancing powerful performance with eco-friendliness. Eliminating the DPF makes maintenance faster and easier than ever.

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Low noise and easy maintenance mean greater value
A new design approach leads to a revolutionary double offset duct structure

By reviewing the INDr configuration, Kobelco achieved both great visibility and a compelling design even though the engine compartment has been enlarged to meet TIER IV Final standards, maintaining the value of INDr.

INDr absorbs sound energy to minimize noise by making a path of air, which cools down engines, as one engine cooling duct. This new module is equipped with a selective catalytic reduction (SCR) unit, which required a new design with two offset ducts. This allows ample space to absorb engine noise, making these new excavators as quiet as conventional models.

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Unbeatable Cost Performance

Greater Work Capacity: Exceeding Expectations in Productivity

Improved Fuel Efficiency Contributes to High Performance

Superior Digging Volume

This excavator offers dynamic digging force even as it minimizes fuel consumption rates, achieving class-leading work volume. H-mode with an increased torque setting delivers about 5.2% greater digging volume.

- Digging volume/hour
  - Compared to H-mode on previous models
  - About 5.2% increase

- Max. bucket digging force
  - 90.1 kN (ISO 6015)
  - 87.8 kN (SAE J1179)

- Max. arm crowding force
  - 64.4 kN (ISO 6015)
  - 62.3 kN (SAE J1179)

Energy-efficient System

ECO-mode: engineered for economy

Kobelco’s ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency. Just press a button to choose the operation mode best suited to the task at hand and the working conditions.

- Optimal operation with three modes
  - H-mode: Maximum power for maximum productivity
  - S-mode: Ideal balance of productivity and fuel efficiency
  - ECO-mode: Minimum fuel consumption for utility projects and other work that demands precision

Hydraulic system engineered to reduce energy loss

Kobelco’s proprietary hydraulic systems offer hydraulic line positioning that reduces friction resistance and valves designed for higher efficiency, minimizing energy loss throughout the system.

Always and forever.

Yesterday, today, and tomorrow.

We’re obsessed with fuel efficiency.

Over the past 8 years, KOBELCO has achieved an average fuel consumption reduction of 21% across its fleet. We vow to lead the industry in improving fuel efficiency.

Easy hydraulic piping for quick hitch

A quick hitch hydraulic line, which speeds up attachment changes, is available as a standard.

Ideal for Urban Work Sites Provides a Broad Working Range, Even in Close Quarters

Minimal swing radius improves efficiency

The tail of the upper body extends very little past the crawlers, so the operator can concentrate on the job at hand. This also reduces the risk of collision damage.

Easy workability in less than 3,890 mm of space

The compact design allows continuous 180° dig, swing, and load operations within a working space of just 3.89 m.

Seamless feeling, smooth combined operations

The machines have inherited the various systems that make inclining and combined operations easy and accurate. Leveling and other combined operations can be carried out with graceful ease.

Swing operation cuts cycle times

Fast cycle times as a result of fast swing and boom operations.

Strong drawbar pulling force produces powerful travel capabilities

These new excavators handle steep slopes and rough roads with ease while ensuring smooth changes in direction.

Drawbar pulling force: 138 kN

Excellent Working Ranges

Greater working ranges with class-topping vertical digging depth.

Max. digging height: 9,560 mm

Max. dumping height: 7,100 mm

Max. digging reach: 8,780 mm

Max. vertical digging depth: 5,440 mm

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A quick hitch hydraulic line, which speeds up attachment changes, is available as a standard.
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Energy-efficient System
ECO-mode (SK140SR-5)
Compared to SK135SRLC-2 (2008)
About 21% improvement

AIS (Auto Idle Stop)
If the boarding/dismounting lever is left up, the engine will stop automatically. This eliminates wasteful idling during standby, saving fuel and reducing CO2 emissions as well.

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

About 5.2% increase
Comprehensive safety and intuitive operation

User-friendly design and enhanced safety means greater efficiency and productivity.

**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.

**Expanded field of view for greater safety**

- Top Guard level II (Meets ISO10262)
- Mounting brackets for vandalism guards are standard equipment (contact your KOBELCO dealer to fit vandalism or front rock guards).

**Right side camera fitted as standard**
Further to the existing rear-view camera, a camera for the right side is fitted as standard for easy safety checks all round the machine.

**Operator-friendly Features Include Controls that Are Easy to See, Easy to Use**

**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.

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

**One-touch attachment mode switch**
A simple flick of a switch converts the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.
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Cab Design That Puts the Operator First

Wide and open, the cab’s interior overflows with features that streamline operation.

**Comfort**

**Big roomy cab**
The cube design makes the most of straight lines, so the cab interior is 4% more spacious than before. Operating space literally spreads out before the operator. And the 50Pa airtightness keeps dust out.

**Wide-open field of view**
On the right side, the large single window has no center pillar, and the whole cab is designed for a wide field of view, giving the operator a direct view ahead and to the left and right. Mirrors in these positions make it easy for the operator to make sure things are safe all around.

**A Light Touch on the Lever Means Smoother, Less Tiring Work**
It takes 25% less effort to work the operation lever, which reduces fatigue over long working hours or continued operations.

**Wide doors and ample head clearance mean smooth entry and exit**
The control box and safety lock lever tilt up at a larger angle, and the door handle height is positioned for easy cab entry and exit.

**More comfortable seat means higher productivity**
The cab interior offers a host of operator comforts. The seat guarantees comfort whether on the job or at rest, and everything is ergonomically planned and laid out for smooth, stress-free operation.

**Equipment designed for comfort and convenience**

**Bluetooth installed radio**
Bluetooth installed to allow connections with iPhones and other devices.

**Powerful automatic air conditioner**
Also standard is an automatic air conditioner that maintains a comfortable interior environment all year around.
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Seat recliner can be pushed back
Double slides allow adjustment for optimum comfort
Spacious storage tray
Large cup holder
USB / AUX
12V power outlet
Seat suspension absorbs vibration
Double side arm adjustment for optimum comfort

NEW
Proper Maintenance Ensures Peak Efficiency

Kobelco machines are designed for quick, simple inspection and maintenance.

Easy, on-the-spot maintenance

- Urea tank: Urea filter cap is placed on the step for easy access.
- Engine maintenance: Setting-up maintenance area one step down allows easy access to the engine.
- Handhold: The handhold is placed on the boom side. In addition, the distance between current handrails was increased to allow easier access to the maintenance port on the upper arm.

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.

- Engine oil filter
- Hydraulic pump
- Oil filter/hygiation reservoir /air cleaner
- Control valve/water separator

Fast maintenance requires only a few procedures

- Urea filter is located under the cab floor mat.
- Engine oil quick-drain valve can be turned without special tool.
- Dual tank features bottom flange and large drain valve.

Quality that Keeps on Shining. Valuable Assets Take Your Business to the Next Level.

Structural strength and proven reliability mean these machines can deal with heavy work loads and perform in rigorous site environments. From the lifecycle viewpoint, these machines maintain their value throughout their service lives.

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.

Hydraulic fluid filter

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

Hydraulic fluid filter clog detector

- Pressure sensors at the inlet and outlet of the hydraulic fluid filter monitor differences in pressure to determine the degree of clogging. If the difference in pressure exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be removed from the filter before it reaches the hydraulic fluid reservoir.

Enlarged fuel filter

- The enlarged fuel filter with built-in water separator maximizes filtering performance.

Easy cleaning saves time

- Special cleaner frame design makes it easy to clean off mud.

Double-element air cleaner

- The large-capacity element features a double-filter structure that keeps the engine running clean even in industrial environments.

Long-interval maintenance

- Long-life hydraulic oil reduces cost and labor.

Highly durable super-fine filter

- The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability.
Proper Maintenance Ensures Peak Efficiency

Kobelco machines are designed for quick, simple inspection and maintenance.

**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 past breakdowns including regular and transient malfunctions.

**Easy, on-the-spot maintenance**

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- Engine oil quick-drain valve can be turned without special tool.
- Fuel tank features bottom flange and large drain valve.

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**Quality that Keeps on Shining. Valuable Assets Take Your Business to the Next Level.**

Structural strength and proven reliability mean these machines can deal with heavy work loads and perform in rigorous site environments. From the lifecycle viewpoint, these machines maintain their value throughout their service lives.
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.

Remote monitoring for peace of mind
- 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.

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

Direct Access to Operational Status
- Location data
- Fuel consumption data
- Machine maintenance data
- Fuel consumption data
- Graph of work content

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.

Security system
- Engine start alarm
- Area alarm

Maintenance Data and Warning Alerts
- Alarm information can be received through E-mail
- Daily/Monthly reports

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.

Alarm information or maintenance notice can be received through E-mail, using a computer or cell phone.

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

Messages displayed when the machine returns to the set area.

Device settings
- Setting Condition: Change date
- Setting Condition: Change time
- Area setting: Set area
- Area setting: Center point

Daily report
- Fuel consumption

Daily report
- Fuel consumption

Maintenance
- Alarm for outside of reset area
- Engine start alarm outside prescribed work time
- Alarm for outside of reset area

Security
- Area alarm
- Engine start alarm

Messages displayed when the machine returns to the set area.

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

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

Alarm information or maintenance notice can be received through E-mail, using a computer or cell phone.

Maintenance
- Maintenance
- Alarm for outside of reset area
- Engine start alarm

Messages displayed when the machine returns to the set area.

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

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.

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

Daily/Monthly reports
- Operational data downloaded onto a computer helps in formulating daily and monthly reports.

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.

Graph of work content
- The graph shows how working hours are divided among different operating categories, including digging, idling, traveling, and optional operations.

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Maintenance
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GPS

Web server

Hydraulic excavator

KOBELCO service personnel/dealer/customer

Base station

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.

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.

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.

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.

Daily/Monthly reports

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

Security system

Engine start alarm

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

Area alarm

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

Maintenance

Alarm for outside of reset area

Messages displayed when the machine returns to the set area.

Latest location

Location record

Work data

KOBELCO service personnel

KOBELCO office

Customer

KOBELCO service personnel

Base station

Web server

Hydraulic excavator

GPS

KOMEXS (Kobelco Monitoring Excavator System)
Specifications

**Engine**

<table>
<thead>
<tr>
<th>Model</th>
<th>4 cylinder, water cooled, overhead valve, vertical in-line, direct injection type, with turbo-charger; Stage 4 certified.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>No. of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>95.4 mm x 104.9 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>2,099.1 mm³</td>
</tr>
<tr>
<td>Rated power output</td>
<td>73.5 kW/2,000 min (ISO 9249) 70.5 kW/2,000 min (ISO 14396)</td>
</tr>
<tr>
<td>Max. torque</td>
<td>347 N·m/1,800 rpm</td>
</tr>
<tr>
<td></td>
<td>375 N·m/1,800 rpm (ISO 14396)</td>
</tr>
</tbody>
</table>

**Hydraulic System**

<table>
<thead>
<tr>
<th>Pump</th>
<th>Two variable displacement pumps + one gear pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Max. discharge flow</td>
<td>2 x 130 L/min</td>
</tr>
<tr>
<td>Max. discharge</td>
<td>2 x 120 L/min</td>
</tr>
<tr>
<td>Relief valve setting</td>
<td></td>
</tr>
<tr>
<td>Boom, arm and bucket</td>
<td>34.3 MPA (150 kgf/cm²)</td>
</tr>
<tr>
<td>Travel circuit</td>
<td>34.3 MPA (150 kgf/cm²)</td>
</tr>
<tr>
<td>Swing circuit</td>
<td>26.0 MPA (246 kgf/cm²)</td>
</tr>
<tr>
<td>Control circuit</td>
<td>5.0 MPA (50 kgf/cm²)</td>
</tr>
<tr>
<td>Pilot control pump</td>
<td>Gear type</td>
</tr>
<tr>
<td>Main control valves</td>
<td>8 spool</td>
</tr>
<tr>
<td>Oil cooler</td>
<td>Air cooled type</td>
</tr>
</tbody>
</table>

**Swing System**

<table>
<thead>
<tr>
<th>Swing motor</th>
<th>Axial piston motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Brake</td>
<td>Hydraulic, locking automatically when the swing control lever is in the neutral position</td>
</tr>
<tr>
<td>Parking brake</td>
<td>Oil dish brake, hydraulic automatically operated</td>
</tr>
<tr>
<td>Speed</td>
<td>110 rpm</td>
</tr>
<tr>
<td>Torque</td>
<td>39.9 kN·m</td>
</tr>
<tr>
<td>Tilt swing radius</td>
<td>1,490 mm</td>
</tr>
<tr>
<td>Min. front swing radius</td>
<td>2,000 mm</td>
</tr>
</tbody>
</table>

**Dozer Blade (Optional)**

<table>
<thead>
<tr>
<th>Cylinder</th>
<th>110 mm x 220 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension</td>
<td>2,400 mm (for 500 mm shoe) (width) x 575 mm (height)*</td>
</tr>
<tr>
<td>Working range</td>
<td>515 mm (ap) x 575 mm (down)</td>
</tr>
</tbody>
</table>

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

**Refilling Capacities & Lubrications**

<table>
<thead>
<tr>
<th>Boom, Arm &amp; Bucket</th>
<th>120 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refilling tank</td>
<td>33 L/30 L, 2 x 2.1 L</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>96 L, 190 L</td>
</tr>
<tr>
<td>Oil disk brake</td>
<td>1.65 L</td>
</tr>
<tr>
<td>Oil seal</td>
<td>1.05 L</td>
</tr>
<tr>
<td>Propeller pump</td>
<td>9.0 L</td>
</tr>
<tr>
<td>Oil pressure</td>
<td>4.0 L</td>
</tr>
</tbody>
</table>

**Swing System**

<table>
<thead>
<tr>
<th>500 mm shoe</th>
<th>2,340 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 mm shoe</td>
<td>2,400 mm</td>
</tr>
<tr>
<td>700 mm shoe</td>
<td>2,540 mm</td>
</tr>
</tbody>
</table>

**Operating Weight & Ground Pressure**

In standard trim, with standard boom, 2.38 m arm, and 0.5 m³ ISO heaped bucket.

<table>
<thead>
<tr>
<th>Operating Weight</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating weight</td>
<td>14,300</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>14,300</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>15,900</td>
</tr>
</tbody>
</table>

**Attachments**

<table>
<thead>
<tr>
<th>Use</th>
<th>Backhoe bucket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>0.24 0.31 0.38 0.45 0.50 0.57 0.70</td>
</tr>
<tr>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Operating width</td>
<td>0.23 0.33 0.38 0.43 0.50</td>
</tr>
<tr>
<td>Opening width</td>
<td>550 570 600 600 600 1000 1100</td>
</tr>
<tr>
<td>Without side cutter</td>
<td>500 600 700 700 700 700 700 1,000 1,150</td>
</tr>
<tr>
<td>No. of teeth</td>
<td>3 5 5 5 5 5 5 5 5 5</td>
</tr>
<tr>
<td>Bucket weight</td>
<td>280 380 340 360 360 400 400 450</td>
</tr>
<tr>
<td>Combination</td>
<td>3.48 3.64 3.80 3.96 4.12 4.28 4.44 4.60 4.76 4.92 5.10 5.26</td>
</tr>
</tbody>
</table>

*Without including height of shoe lug
**500 mm shoe

**Working Ranges**

<table>
<thead>
<tr>
<th>Boom</th>
<th>Unit m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working range</td>
<td>3.48 3.64 3.80 3.96 4.12 4.28 4.44 4.60 4.76 4.92 5.10 5.26</td>
</tr>
<tr>
<td>Working range</td>
<td>0.23 0.33 0.38 0.43 0.50</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Arm/length</th>
<th>Unit: m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard arm</td>
<td>2.38 m</td>
</tr>
<tr>
<td>Long arm</td>
<td>2.84 m</td>
</tr>
</tbody>
</table>

**Digging Force (ISO 6015)**

<table>
<thead>
<tr>
<th>Arm/length</th>
<th>Unit: kN (k gf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard arm</td>
<td>2.38 m</td>
</tr>
<tr>
<td>Long arm</td>
<td>2.84 m</td>
</tr>
</tbody>
</table>

**Deflector Capacity**

<table>
<thead>
<tr>
<th>Use</th>
<th>Backhoe bucket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>0.24 0.31 0.38 0.45 0.50 0.57 0.70</td>
</tr>
<tr>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Operating width</td>
<td>0.23 0.33 0.38 0.43 0.50</td>
</tr>
<tr>
<td>Opening width</td>
<td>550 570 600 600 600 1000 1100</td>
</tr>
<tr>
<td>Without side cutter</td>
<td>500 600 700 700 700 700 700 1,000 1,150</td>
</tr>
<tr>
<td>No. of teeth</td>
<td>3 5 5 5 5 5 5 5 5 5</td>
</tr>
<tr>
<td>Bucket weight</td>
<td>280 380 340 360 360 400 400 450</td>
</tr>
<tr>
<td>Combination</td>
<td>3.48 3.64 3.80 3.96 4.12 4.28 4.44 4.60 4.76 4.92 5.10 5.26</td>
</tr>
</tbody>
</table>

*Standard: Recommended, Loading only: Not recommended, **Not recommended.
### Specifications

#### Engine
<table>
<thead>
<tr>
<th>Model</th>
<th>ISUZU 6R1A-25A-6S1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4 cylinder, water cooled, overhead valve, vertical in-line, direct injection type, with turbo-charger</td>
</tr>
<tr>
<td>No. of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>95.4 mm x 104.9 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>7.19 L (ISO 1049)</td>
</tr>
<tr>
<td>Rated power output</td>
<td>78.5 kW/2,000 min⁻¹ (ISO 9249)</td>
</tr>
<tr>
<td>Max. torque</td>
<td>347 N.m/1,800 min⁻¹ (ISO 9249)</td>
</tr>
</tbody>
</table>

#### Hydraulic System

<table>
<thead>
<tr>
<th>Pump</th>
<th>Type</th>
<th>Two variable displacement pumps + one gear pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. discharge flow</td>
<td>2 x 130 L/min</td>
<td></td>
</tr>
<tr>
<td>Relief valve setting</td>
<td>34.3 Mpa (350 kgf/cm²)</td>
<td></td>
</tr>
<tr>
<td>Boom, arm and bucket</td>
<td>280 Mpa (285 kgf/cm²)</td>
<td></td>
</tr>
<tr>
<td>Control circuit</td>
<td>5.0 Mpa (50 kgf/cm²)</td>
<td></td>
</tr>
<tr>
<td>Pilot control pump</td>
<td>Gear type</td>
<td></td>
</tr>
<tr>
<td>Main control valves</td>
<td>8 spool</td>
<td></td>
</tr>
<tr>
<td>Oil cooler</td>
<td>Air cooled type</td>
<td></td>
</tr>
</tbody>
</table>

#### Swing System

| Swing motor | Axial piston motor |
| Brakes | Hydraulic, locking automatically when the swing control lever is in the neutral position |
| Parking brake | Oil disk brake, hydraulic operated automatically |
| Swing speed | 110.0 m/min |
| Swing torque | 39.9 kgf.m |
| Tail swing radius | 1,490 mm |
| Min. front swing radius | 2,000 mm |

#### Cab & Control

- All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat.
- Electric rotary-type engine throttle
- Two hand levers and two foot pedals for travel
- Two hand levers for excavating and swing
- Swing control lever is in the neutral position
- Hydraulic: locking automatically when the swing control lever is in the neutral position
- Oil disk brake per motor
- Axial piston motor
- Electric rotary-type engine throttle
- Two hand levers and two foot pedals for travel
- Swing control lever is in the neutral position
- Hydraulic: locking automatically when the swing control lever is in the neutral position
- Oil disk brake per motor
- Swing control lever is in the neutral position
- Swing brake
- Hydraulic: locking automatically when the swing control lever is in the neutral position
- Oil disk brake per motor
- Swing control lever is in the neutral position
- Swing brake

#### Dozer Blade (Optional)

- Dozer cylinder: 110 mm x 220 mm
- Dimension: 2,490 mm (for 500 mm shoe) (width) x 575 mm (height)
- Working range: 515 mm (up) x 575 mm (down)

#### Refilling Capacities & Lubrications

| Fuel tank | 190 L |
| Cooling system | 90 L |
| Engine oil | 13 L |
| Swing reduction gear | 2 x 2 L |
| Swing reduction gear | 1.65 L |
| Hydraulic oil tank | 79.3 L tank oil level |
| DEF/Urrea tank | 33.9 L |

#### Working Ranges

<table>
<thead>
<tr>
<th>Boom</th>
<th>450 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>Standard</td>
</tr>
<tr>
<td>A</td>
<td>2,388 m</td>
</tr>
<tr>
<td>B</td>
<td>2,700 m</td>
</tr>
<tr>
<td>C</td>
<td>2,670 m</td>
</tr>
<tr>
<td>D</td>
<td>1,260 m</td>
</tr>
<tr>
<td>E</td>
<td>660 m</td>
</tr>
<tr>
<td>F</td>
<td>440 m</td>
</tr>
<tr>
<td>G</td>
<td>515 mm (up) x 575 mm (down)</td>
</tr>
</tbody>
</table>

#### Dimensions

<table>
<thead>
<tr>
<th>Arm length</th>
<th>Standard</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Overall length</td>
<td>7,000 m</td>
</tr>
<tr>
<td>B</td>
<td>Overall height (to top of boom)</td>
<td>3,110 m</td>
</tr>
<tr>
<td>C</td>
<td>Overall width</td>
<td>2,490 m</td>
</tr>
<tr>
<td>D</td>
<td>Overall height (to top of cab)</td>
<td>2,070 m</td>
</tr>
<tr>
<td>E</td>
<td>Ground clearance of rear end</td>
<td>860</td>
</tr>
<tr>
<td>F</td>
<td>Ground clearance</td>
<td>445</td>
</tr>
<tr>
<td>G</td>
<td>Tail swing radius</td>
<td>1,400</td>
</tr>
</tbody>
</table>

#### Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.38 m arm, and 0.5 m ISO heaped bucket.

<table>
<thead>
<tr>
<th>Shoe width</th>
<th>300 mm</th>
<th>600 mm</th>
<th>900 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall width of crawler</td>
<td>2,490</td>
<td>2,790</td>
<td>3,110</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>430</td>
<td>360</td>
<td>330</td>
</tr>
<tr>
<td>Operating weight</td>
<td>14,300</td>
<td>14,300</td>
<td>14,300</td>
</tr>
<tr>
<td>Ground pressure with dozer</td>
<td>430</td>
<td>360</td>
<td>330</td>
</tr>
<tr>
<td>Operating weight with dozer</td>
<td>12,500</td>
<td>12,500</td>
<td>12,500</td>
</tr>
</tbody>
</table>

---

### Attachments

- Backhoe bucket and combination.

#### Backhoe bucket

<table>
<thead>
<tr>
<th>Bucket capacity</th>
<th>ISO heaped</th>
<th>m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity</td>
<td>0.24</td>
<td>0.31</td>
</tr>
<tr>
<td>Standard arm</td>
<td>0.23</td>
<td>0.28</td>
</tr>
<tr>
<td>Long arm</td>
<td>0.20</td>
<td>0.25</td>
</tr>
<tr>
<td>Operating width</td>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>Width side cutter</td>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>Without side cutter</td>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>Tide of teeth</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Bucket weight</td>
<td>280</td>
<td>300</td>
</tr>
</tbody>
</table>

---

*Table: Standard [□] Recommended [■] Loading only [△] Not recommended
Lifting Capacities

Two Piece Boom Specification

**Working Ranges**

<table>
<thead>
<tr>
<th>Range</th>
<th>Std</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reach</td>
<td>3.2</td>
<td>3.8</td>
</tr>
<tr>
<td>a-Max. digging reach</td>
<td>6.9</td>
<td>7.4</td>
</tr>
<tr>
<td>b-Max. digging reach at ground level</td>
<td>6.9</td>
<td>7.4</td>
</tr>
<tr>
<td>c-Max. digging depth</td>
<td>4.52</td>
<td>4.52</td>
</tr>
<tr>
<td>d-Max. digging height</td>
<td>5.98</td>
<td>5.98</td>
</tr>
<tr>
<td>e-Max. dumping clearance</td>
<td>2.07</td>
<td>2.07</td>
</tr>
<tr>
<td>f-Max. vertical wall digging depth</td>
<td>3.35</td>
<td>3.35</td>
</tr>
<tr>
<td>h-Max. dumping clearance</td>
<td>1.91</td>
<td>1.91</td>
</tr>
<tr>
<td>i-Max. digging reach at ground level</td>
<td>6.9</td>
<td>7.4</td>
</tr>
<tr>
<td>j-Digging depth for 2.4 m (8') flat bottom</td>
<td>4.16</td>
<td>4.16</td>
</tr>
</tbody>
</table>

**Offset Boom Specifications**

**Working Ranges**

<table>
<thead>
<tr>
<th>Offset</th>
<th>Max. Left</th>
<th>Max. Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>a-Max. digging reach</td>
<td>7.15</td>
<td>7.15</td>
</tr>
<tr>
<td>b-Max. digging reach at ground level</td>
<td>6.95</td>
<td>6.95</td>
</tr>
<tr>
<td>c-Max. digging depth</td>
<td>4.52</td>
<td>4.52</td>
</tr>
<tr>
<td>d-Max. digging height</td>
<td>5.98</td>
<td>5.98</td>
</tr>
<tr>
<td>e-Max. dumping clearance</td>
<td>2.07</td>
<td>2.07</td>
</tr>
<tr>
<td>f-Max. vertical wall digging depth</td>
<td>3.35</td>
<td>3.35</td>
</tr>
<tr>
<td>h-Max. dumping clearance</td>
<td>1.91</td>
<td>1.91</td>
</tr>
<tr>
<td>i-Max. digging reach at ground level</td>
<td>6.9</td>
<td>7.4</td>
</tr>
<tr>
<td>j-Digging depth for 2.4 m (8') flat bottom</td>
<td>4.16</td>
<td>4.16</td>
</tr>
</tbody>
</table>

**Operating Weight & Ground Pressure**

**Two Piece Boom Configuration**

<table>
<thead>
<tr>
<th>Shoe width mm</th>
<th>550</th>
<th>650</th>
<th>750</th>
<th>850</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall width of crawler</td>
<td>4,493</td>
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**Offset Boom Configuration**

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<th>Shoe width mm</th>
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Mono Boom Specifications

**SK140SRLC**

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<tbody>
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Two Piece Boom Specifications

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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. Allowance for load conditions such as soft or uneven ground, out of level conditions, side loads, side overturning of load, suspended conditions, etc.
3. Arm top defined as lift point.
4. The above lifting capacities are in compliance with ISO 10547. These do not exceed 80% of hydraulic lifting capacity or 75% of tipping load. Lifting capacities tested with an ambient temperature limited by hydraulic capacity rather than tipping load.
5. Arm top defined as lift point.
6. Operator should be fully acquainted with the Operator’s and Maintenance Instructions before operating the machine. For safe operation of equipment should be adhered to at all times.
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Lifting Capacities

Two Piece Boom Specification

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Working Ranges

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Operating Weight & Ground Pressure

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1. Do not attempt to lift any load that is greater than shown lift capacities at their specified lift point radius and height. Weight of all accessories must be deducted from the above lift capacities.

2. Lift capacities shown are in accordance with ISO 10567. They do not exceed 87% of hydraulic lifting capacity rather than lifting load.

3. Lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lifting capacity rather than lifting load.

4. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating the machinery. The following instructions should be adhered to at all times.

5. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO.

6. Relief valve setting: 34.3 MPa (350 kgf/cm²)
**STANDARD EQUIPMENT**

**ENGINE**
- Engine, ISUZU AR-4JJ1XASK-01, Diesel engine with turbocharger and intercooler, Tier 4 certified
- Auto idle stop
- Automatic engine deceleration
- Batteries (2 x 12V - 80 Ah)
- Starting motor (24 V - 5 kW), 50 amp alternator
- Engine oil pan drain cock
- Double-element air cleaner
- Refueling pump

**CONTROL**
- Monitoring mode selector (H-mode, S-mode and ECO-mode)
- N&B piping (proportional hand controlled)
- (Not applicable for Offset boom)
- Extra piping (proportional hand controlled)
- (Not applicable for Offset boom)
- Object Handling Kit (boom and arm safety valves + hook)

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

**MIRRORS, LIGHTS & CAMERAS**
- Four view mirrors, rearview camera and side view camera
- Three front working lights

**OPTIONAL EQUIPMENT**

**CAB & CONTROL**
- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- Cab light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- Kit suspension seat with heater
- Retractable seatbelt

**SWING SYSTEM & TRAVEL SYSTEM**
- Travel alarm
- Breaker piping (Applicable for Offset boom)
- Lower under cover
- Sheer blade (for 500 mm, 600 mm and 700 mm shoe)
- Offset boom (with shears)
- Two piece boom
- Quick Hitch piping

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 advance notice.

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