SK75SR-3E
Hydraulic Excavators

**Engine**
- Engine: ISUZU AU-4LE2X engine with turbocharger and intercooler, Tier 4 Final certified
- Automatic engine deceleration
- Batteries (2 x 12V - 64 Ah)
- Starting motor (24V - 3.3 kW), 50 A alternator
- Automatic control levers, pilot operated
- Horn, electric
- Integrated left-right slide-type control box
- Airfilter
- Cab light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- 7-way adjustable suspension seat
- Retractable seatbelt

**Operating Weight:**
17,100 lb (7,760 kg)

**Engine Power:**
55.0 hp (41kW) / 2,000 rpm (SAE NET)

**Bucket Capacity:**
0.29 cu.yd. (0.22 m³) SAE heaped

**Japanese Regulations**
- Interim Tier IV
- Stage III B

**US EPA Regulations**
- Tier IV

**European Regulations**
- NRMM

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**Standard Equipment**

- **Engine**
  - ISUZU AU-4LE2X engine with turbocharger and intercooler, Tier 4 Final certified
- **Control**
  - Working mode selector (H-mode, S-mode and ECO-mode)
- **Swing System & Travel System**
  - Swing rebound prevention system
  - Two-speed travel with automatic down shift
  - Sealed & lubricated track links
  - 23.6" (600mm) track shoes
  - Grease-type track adjusters
  - Automatic swing brake
  - Dozer blade
- **Mirrors & Lights**
  - Four rear view mirrors
  - Two front working lights (boom, guard)
  - Swing flasher

**Optional Equipment**

- **Boom & Arm Load (Lock) Holding Valve**
- **Front-Guard Protective Structure**
- **Additional Hydraulic Circuit**
- **Additional Counterweight** (100 kg, 400 kg)
- **Cab Additional Light**
- **Additional Center Track Guide**
- **Rain Visor**
- **Belly Pan Guard**

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Note: This catalog may contain attachments and optional equipment that are not available in your area. It may also contain photographs of machines with specifications that differ from those of machines sold in your area. Please consult your nearest KOBELO 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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Inquiries To:

2013080000EF Printed in USA
Fuel Consumption Gives You the Competitive Edge

KOBELECO’s SR hydraulic excavator has undergone a new evolution. By utilizing its full range of fuel-saving technologies in this SR model, we developed an unmatched low fuel consumption that provides a class leading standard of efficiency for engine-driven hydraulic excavators.

Outstanding performance in tight spaces, on-site safety, less stress for the operator ... KOBELECO was first to understand these demands and in response developed SR, short rear swing, excavators. The acclaimed SR concept went on to be adopted throughout the industry. But KOBELECO didn’t stop there. Aware of changing needs among machine users in a changing social environment, KOBELECO has taken the SR concept through a further evolution with value-added features.

KOBELECO’s unique design for engine cooling, the iNDr system, cuts noise to extremely low levels. The newest KOBELECO approach to low fuel consumption, NEXT-3E, now also applies to short rear swing models, to maximize work volumes while saving on fuel. And the new ECO-mode in the SK75SR creates even greater savings on fuel to turn SR models into exceptional high-earning machines.

KOBELECO continues to lead the field in short rear swing excavators.

Five Ways the SK75SR Scores:

- Low Noise: iNDr
- More Work with Less Fuel!
- Efficient Performance!
- Fast, Accurate and Low-Cost Maintenance
- A Working Environment that Helps Operator Concentrate on the Job

The Revolutionary Integrated Noise and Dust Reduction Cooling System

KOBELECO’s exclusive iNDr Cooling System delivers amazingly quiet operation.

- Concept
KOBELECO has developed the revolutionary integrated Noise and Dust Reduction Cooling System, with the engine compartment placed inside a single duct that connects the air intake to the exhaust outlet.

- Reduces Noise
The intake and exhaust are offset, with the holes and joints in the sections corresponding to the duct wall completely covered to reduce noise at the intake and exhaust apertures. This design, plus the generous use of insulation-material inside the duct, minimizes engine noise.

- Reduces Dust
The high-performance iNDr filter removes dust from the intake air, ensuring a quieter, cleaner engine and keeping the cooling unit free of clogging so that no regular cleaning is necessary.

Enhancement
Greater Performance Capacity

Economy
Improved Cost Efficiency

Environment
Features That Go Easy on the Earth

The "Ultimate"-Low Noise Level of KOBELECO’s SR hydraulic excavator has undergone a new evolution. By utilizing its full range of fuel-saving technologies in this SR model, we developed an unmatched low fuel consumption that provides a class leading standard of efficiency for engine-driven hydraulic excavators.
More Work with Less Fuel!

Fuel Consumption and Work Volume

The new hydraulic system and an additional ECO-mode have cut fuel consumption by up to 31%.

H-mode: For heavy duty operation, when a higher performance level is required.

S-mode: For normal operations with lower fuel consumption.

ECO-mode: Puts priority on low fuel consumption and economic performance.

Figures for fuel consumption: fuel consumed per hour (L/h) compared with previous model, in KOBELCO tests.

Figures for work volume: digging volume per liter of fuel (m$^3$/L) compared with previous model, in KOBELCO tests.

Work modes for a closer match to the job in hand. An addition to the existing H-mode and S-mode, the new ECO-mode saves even more energy.

H-mode: For heavy duty operation, when a higher performance level is required.

S-mode: For normal operations with lower fuel consumption.

ECO-mode: Puts priority on low fuel consumption and economic performance.

Significant Extension of Continuous Operating Hours

The combination of a large-capacity fuel tank and excellent fuel efficiency delivers an impressive increase in the length of continuous usage.

Fuel tank capacity: 31.7 U.S. gal (120 L)

Photos in this catalog are the machine with optional equipment. Please check with your dealer for price and availability.

Economy

NEXT-3E Technology

New Hydraulic System

KOBELCO’s hydraulic circuit analysis is combined with the use of new, high-efficiency pumps in a three-pump electro-hydraulic actuator control system that replaces the conventional mechanical system. It all adds up to a hydraulic system that delivers maximum efficiency: Class leading work performance on less fuel.

NEXT-3E Technology

Total Tuning Through Advanced ITCS Control

The next-generation engine control is governed by a new version of ITCS, which responds quickly to sudden changes in hydraulic load to ensure that the engine runs as efficiently as possible with a minimum of wasted output.

ITCS (Intelligent Total Control System) is an advanced, computerized system that provides comprehensive control of all machine functions.

NEXT-3E Technology

Next-Generation Electronic Engine Control

The new electronic-control common-rail engine features high-pressure fuel injection and multiple injection with improved precision. It is fitted with an EGR cooler, and DOC which deliver high output from optimized combustion and greatly reduce PM and NOx emissions.

Tier4 compliant engine

PM emissions cut: Limits creation of particulate matter (which results from incomplete combustion of fuel)

- Common rail system
- High-pressure injection atomizes the fuel, and injection timing is more precise, improving combustion efficiency.
- DOC (Diesel Oxidation Catalyst)
- Carbon builds up as soot on the diesel particulate filter and is burned off at high temperature. No Exhaust fluid required. The system allows manual or automatic filter regeneration.

NOx emissions cut: Reduces nitrogen oxides (created by reaction with oxygen at high temperature)

- EGR cooler
- While ensuring sufficient oxygen for combustion, cooled exhaust gases are mixed with the air intake and re-circulated into the engine. The lowered oxygen temperature lowers the combustion temperature and increases combustion efficiency.

Automatic Acceleration / Deceleration Function Reduces Engine Speed

Engine speed is automatically reduced when the control lever is placed in neutral, effectively saving fuel and reducing noise and exhaust emissions. The engine quickly returns to the previous speed when the lever is moved out of neutral.
**Efficient Performance!**

**Top-Class Powerful Digging**
For more efficient work performance.
(SAE J1179:1990)
- Max. arm crowding force: 7,700 lbs (34.2 kN)
- Max. bucket digging force: 14,658 lbs (65.2 kN)

**Powerful Travel**
A new type of travel motor boosts travel torque by 6%, and lighter machine weight improves steering performance by 10% over the previous model, for better maneuverability and crisper turns.
- Travel torque: 6% increase
- Drawbar pulling force: 17,300 lbs (76.8 kN)

**Dozer Simultaneous Operations**
With separate pumps for travel motor and dozer there is no hydraulic interference when traveling at top speed. Dozer operation is fast, rugged, and stress-free.

**N&B Hosing**
Nibbler & Breaker specs are fitted optionally. The selector valve, located inside the right side cover, can be accessed from the ground. Hydraulic flow to attachments is controlled from the cab.

**Excellent Working Ranges**
Greater working ranges with class-topping vertical digging depth.
- Max. digging height: 25’5” (7,750mm)
- Max. dumping height: 18’7” (5,670mm)
- Max. digging reach: 22’7” (6,880mm)
- Max. vertical digging depth: 14’3” (4,340mm)

**Great Swing Power, Short Cycle Times**
Powerful swing power and top-class swing speed.
- Swing speed: 11.5 rpm

**Requires 11 ft. 2 in. of Working Space**
The compact design allows the machine to perform continuous dig, 180° swing and dump operations within a working space of 11 feet 2 inches.

**Mild Operating Sound**
The iNDr cooling system also helps to keep the machine quiet, even at close quarters.

**Meets EMC(Electromagnetic Compatibility) Standards in Europe**
Electrical shielding ensured that the machines clear all European standards and neither cause or are affected by electromagnetic interference.
A Working Environment that Helps the Operator Concentrate on the Job at Hand!

Big Cab

The “Big cab” provides a roomy operating space with plenty of legroom, and the door opens wide for entry and exit. As well as giving a wide, open view to the front, the cab has increased window areas on both sides and to the rear, for improved visibility in all directions.

Excellent Visibility

Taking out the right-side cab support to make a single window has improved visibility to the right.

Wide-Access Cab Aids Smooth Entry and Exit

Easy entry and exit assured with wider cab entry and safety lock lever integrated with mounting for control levers.

Comfortable Operating Environment

- Double slide seat
- Powerful automatic air conditioner
- One-touch lock release simplifies opening and closing front window
- Reclining seat
- Two-speaker FM/AM radio with station select
- Travel speed select switch: The travel speed select switch is placed on the dozer lever and it allows selecting the travel speed.
- Spacious luggage tray
- Large cup holder
- Powerful automatic air conditioner
- Two-speaker FM/AM radio with station select
- Travel speed select switch
- Spacious luggage tray
- Large cup holder
- Always Easy to Read!

New Information Display

Large gauges with large numbers and letters combined with glare-reducing visors ensure that the display is always easy to read regardless of working conditions.

Safety Features

- Level 2 FOPS Guard (ISO 10262) is equipped as standard.
- To fit vandalism guards, please contact your KOBELCO dealer.
- (Mounting brackets for vandalism guards provided standard)
- Protective panel separates the pump compartment from the engine
- Swing flasher
- Hammer for emergency exit
- Handrails meet European standards
- Thermal guard prevents contact with hot components during engine inspections
- Travel alarm

ROPS Cab

The newly developed, ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator.

- Protective panel separates the pump compartment from the engine
- Retractable seatbelt requires no manual adjustment
- Level 2 FOPS Guard (ISO 10262) is equipped as standard.
- To fit vandalism guards, please contact your KOBELCO dealer.
- (Mounting brackets for vandalism guards provided standard)
- FOPS guard (Meets or exceeds current OSHA standards)
Fast, Accurate and Low-Cost Maintenance

Comfortable "On the Ground" Maintenance

All of components that require regular maintenance are laid out for easy access with the control valves located on a single right-hand panel that opens and closes at a touch. In the pump compartment, there is remote access to such components as the engine oil filter and fuel filter (with built-in water separator). On the left side are the iNDr filter, air cleaner, radiator coolant, etc. Daily maintenance can be carried out easily without the need to climb up to the machine.

Visual Checking and Easy Cleaning

When checking and cleaning the cooling system, one must deal with several cooling components like the radiator, oil cooler and intercooler, which all must be handled in different ways. But with the iNDr filter, there's just one filter in one place. If it looks dirty during start-up inspection, it can be cleaned easily and quickly.

Total Support for Machines with Network Speed and Accuracy

Our “KOMEX” allows you to use the Internet to manage information from your office for machines operating in all areas. Be prepared for any problems with strategic information and cost management. This provides a wide range of support for your business operations.

Direct Access to Operational Status
- Location Data
- Operating Hours
- Fuel Consumption Data
- Graph of Work Content
- Graph of Machine Duty Cycles

Maintenance Data and Warning Alerts
- Machine Maintenance Data
- Security System
- Engine Start Alarm
- Area Alarm

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- Machine Maintenance Data
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- Engine Start Alarm
- Area Alarm
### Specifications

#### Engine
- **Model:** ISUZU 4L1-6F7X
- **Type:** Direct injection, water-cooled, 4-cylinder diesel engine with turbocharger, intercooler
- **US EPA Tier IV Final** and ad oil regulation, etc., of emission from non-road special motor vehicles (Japan)

<table>
<thead>
<tr>
<th>No. of cylinders</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore and stroke</td>
<td>3.30&quot; (85 mm) x 3.78&quot; (96 mm)</td>
</tr>
<tr>
<td>Displacement</td>
<td>133 cu.in. (2,179 L)</td>
</tr>
<tr>
<td>Rated power output</td>
<td>55.0 hp (41kW)</td>
</tr>
<tr>
<td>Max. torque</td>
<td>148 lbf-ft (2019 m) /1,000rpm (SAE NET)</td>
</tr>
</tbody>
</table>

#### Hydraulic System
- **Type:** Two variable displacement pumps
- **Max. discharge flow:** 2 x 17.5 U.S.gph (2 x 66 L/min)

#### Swing System
- **Axial piston motor**
- **Oil disc brake, hydraulic operated automatically**

| Swing speed: | 11.5 rpm |
| Swing torque: | 12,500 lbf-ft (17.11 kN.m) |
| Tail swing radius: | 4'2" (1,290 mm) |
| Min. front swing radius: | 6'11" (2,110 mm) |

#### Cab & Control
- **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 cylinder:** 4.33" (110 mm) x 30" (916 mm)
- **Arm cylinder:** 3.74" (95 mm) x 29" (833 mm)
- **Bucket cylinder:** 3.15" (80 mm) x 29" (736 mm)

#### Dozer Blade
- **Dozer cylinder:** 5.31" (135 mm) x 5.08" (129 mm)
- **Dimension:** 8'1" (2,470 mm) x 17" (455 mm)
- **Working range:** 1'2" (360 mm) up to 10.0" (250 mm) down)

#### Refilling Capacities & Lubrications
- **Fuel tank:** 31.7 U.S.gal (120 L)
- **Cooling system:** 2.25 U.S.gal (8.5 L)
- **Engine oil:** 2.9 U.S.gal (11 L)
- **Travel reduction gear:** 2 x 0.36 U.S.gal (2 x 1.35 L)
- **Swing reduction gear:** 0.4 U.S.gal (1.5 L)
- **Hydraulic oil tank:** 9.5 U.S.gal (36 L) tank oil level

#### Attachments
- **Backhoe bucket and arm combination**

<table>
<thead>
<tr>
<th>Use</th>
<th>Normal digging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>37.7 cu.yd (31.7 m³)</td>
</tr>
<tr>
<td>SAC heaped</td>
<td>105 (6)</td>
</tr>
<tr>
<td>Struck</td>
<td>104 (6)</td>
</tr>
<tr>
<td>With side cutter</td>
<td>108 (6)</td>
</tr>
<tr>
<td>Without side cutter</td>
<td>105 (6)</td>
</tr>
<tr>
<td>No. of bucket teeth</td>
<td>3</td>
</tr>
<tr>
<td>Bucket weight</td>
<td>330 (150)</td>
</tr>
<tr>
<td>Combinations</td>
<td>0.7&quot; (17.11 mm) arm</td>
</tr>
<tr>
<td>7&quot; (21.3 mm) arm</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Operating Weight & Ground Pressure
- **In standard trim, with standard boom, 7'0" (2.13m) arm, and 0.29 cu.yd. (0.22m³) SAC heaped bucket**
- **Shaped**
- **Triple grouser shoes (even height)**

<table>
<thead>
<tr>
<th>Shape</th>
<th>Triple grouser shoes (even height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>23'4&quot; (720)</td>
<td>3.61 (18.3)</td>
</tr>
<tr>
<td>24'0&quot; (730)</td>
<td>3.81 (20.3)</td>
</tr>
<tr>
<td>24'3&quot; (740)</td>
<td>4.01 (21.1)</td>
</tr>
</tbody>
</table>

#### Boom Ranges
- **Boom:** 0° (12.4 ft) to 90° (124 ft)
- **Arm:** 126° (3.2 m) / 7° (1.3 m)

<table>
<thead>
<tr>
<th>Range</th>
<th>Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>126&quot; (3.2 m)</td>
</tr>
<tr>
<td>7°</td>
<td>7&quot; (1.3 m)</td>
</tr>
</tbody>
</table>

| Max. digging reach (ground level) | 213" (5.4 m) |
| Max. digging depth (ground level) | 201" (5.1 m) |
| Max. vertical wall digging depth | 138° (3.5 m) |
| Min. dumping clearance | 213° (5.4 m) |
| Max. dumping clearance | 201° (5.1 m) |
| Ground clearance of rear end | 201° (5.1 m) |
| Boom capacity (SAC heaped cu.yd) | 0.37 (3.0) |

#### Digging Force
- **Arm length:** 5'9" (1.8 m) / 7'0" (2.0 m)

<table>
<thead>
<tr>
<th>Arm length</th>
<th>Bucket digging force</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'9&quot; (1.8 m)</td>
<td>16,858 (75.2)</td>
</tr>
<tr>
<td>7'0&quot; (2.0 m)</td>
<td>15,958 (72.2)</td>
</tr>
</tbody>
</table>

#### Dimensions
- **Overall height (top of cab):** 8'1" (2,470 mm)
- **Overall width of crawler:** 5'7" (1,710 mm)
- **Overall height (to top of boom):** 12'7" (3.85 m)

<table>
<thead>
<tr>
<th>Part</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm 7'0&quot; (2.13 m)</td>
<td>8'1&quot; (2,470 mm)</td>
</tr>
<tr>
<td>Arm 7&quot; (2.13 m)</td>
<td>14'3&quot; (4.34 m)</td>
</tr>
<tr>
<td>Arm 5'7&quot; (1.71 m)</td>
<td>18'7&quot; (5.70 m)</td>
</tr>
</tbody>
</table>

###backhoe bucket and arm combination
### Offset Boom Specifications

#### Working Ranges

<table>
<thead>
<tr>
<th>Unit: ft-in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
</tr>
<tr>
<td>Off set</td>
</tr>
<tr>
<td>5'9&quot; (1.76 m)</td>
</tr>
<tr>
<td>Max Left</td>
</tr>
<tr>
<td>20'1&quot; (6.110)</td>
</tr>
<tr>
<td>Max Right</td>
</tr>
<tr>
<td>21'0&quot; (6.340)</td>
</tr>
<tr>
<td>Center</td>
</tr>
<tr>
<td>19'7&quot; (6.000)</td>
</tr>
<tr>
<td>Max digging</td>
</tr>
<tr>
<td>12'11&quot; (3.940)</td>
</tr>
<tr>
<td>Digging depth</td>
</tr>
<tr>
<td>23'7&quot; (7.180)</td>
</tr>
<tr>
<td>Max dumping</td>
</tr>
<tr>
<td>16'9&quot; (5.110)</td>
</tr>
<tr>
<td>Ground clearance</td>
</tr>
<tr>
<td>11'0&quot; (3.350)</td>
</tr>
<tr>
<td>Min swing radius</td>
</tr>
<tr>
<td>4'9&quot; (1.490)</td>
</tr>
<tr>
<td>Min horizontal</td>
</tr>
<tr>
<td>10'2&quot; (3.110)</td>
</tr>
<tr>
<td>Digging depth</td>
</tr>
<tr>
<td>11&quot; (0.290)</td>
</tr>
<tr>
<td>Flat bottom</td>
</tr>
<tr>
<td>0.37 (0.28)</td>
</tr>
<tr>
<td>0.29 (0.22)</td>
</tr>
</tbody>
</table>

#### Lifting Capacities

<table>
<thead>
<tr>
<th>SK75SR-3E</th>
</tr>
</thead>
</table>
| Arm: 5'7" (1.71m) Bucket: 0.37yd. (0.32m³) | Operating Weight & Ground Pressure

### Operating Weight & Ground Pressure

In standard trim, with standard boom, 6'9" (2.06 m) arm, and 0.29 cu.yd. (0.22 m³) SAE heaped bucket

<table>
<thead>
<tr>
<th>Shaped</th>
<th>Triple grouser shoes (even height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoe width</td>
<td>23.7 (600)</td>
</tr>
<tr>
<td>Overall width of crawler</td>
<td>85&quot; (2.16)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>4.32 (29.1)</td>
</tr>
<tr>
<td>Operating weight</td>
<td>19,070 (8,630)</td>
</tr>
</tbody>
</table>

**Notes:**
1. Do not attempt to lift or hold any load that is greater than these 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 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. Bucket lift hook is defined as lift point.
4. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 84% of hydraulic wing capacity or 75% of tipping load. Rated loads marked with asterisk (*) are limited by hydraulic capacity when lifting bucket.
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.