■SPECIFICATIONS

Model			SK75SR Offset Boom Specification
Performance			
Bucket Capacity	ISO heaped	m³	0.28
	Struck	m³	0.21
Swing Speed		min-1 {rpm}	11.5
Travel Speed		km/h	5.3/2.6
Gradeability		% {°}	70 {35}
Bucket Digging Force		kN {kgf}	52.5 {5,300}
Arm Crowding Force		kN {kgf}	40 {4,080}
Drawbar Pulling Force		kN {kgf}	76.8 {7,830} {ISO 7464}
Weight			
Operating Weight		kg	8,350
Ground Pressure		kPa {kgf/cm²}	37.5 {0.38}
Shoe Width		mm	450
Engine			
Model			ISUZU 4LE2XCUA
Type			Direct injection, water cooled, 4-cycle, 4 cylinder diesel engine with turboccharger, intercooler
Rated Power Output			42 kW/2,200 rpm (ISO14396:2002) 41 kW/2,200 rpm (ISO9249:2007)
Max. Torque			211 N·m/1,600 min-1 (ISO14396:2002) 210 N·m/1,600 min-1 (ISO9249:2007)
Fuel Tank		L	120
Dozer Blade			
Width x Height		mm	2,300 x 460
Working Range (Height/Depth)		mm	360/250
Side Digging Mechanism			
Type			Boom offset
Offset Volume	To the left	mm	1,030
	To the right	mm	1,340
Hydraulic System			
Pump			Two variable displaceemnt pump + one gear pump
Max. Discharge Flow		L/min	2 x 66, 1 x 18
Relief Valve Setting		MPa	29.4
Swing Motor			Axial piston motor
Travel Motors			2 x axial piston, two-step motor
Hydraulic Oil Tank			85: System (36Tank level)

■STANDARD EQUIPMENT

ENGINE
- ■ Engine, ISUZU AU-4LE2XCUA engine with turbocharger and intercooler
- ■ Automatic engine deceleration
- ■ Auto Idle Stop (AIS)
- ■ Batteries (2 x12V – 64 Ah)
- ■ Starting motor (24 V- 3.2 kW), 30 A alternator
- ■ Automatic engine shut-down for low engine oil pressure
- ■ Double element air cleaner

CONTROL
- ■ Working mode selector (H-mode, S-mode and ECO-mode)

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

MIRRORS & LIGHTS
- ■ Four rear view mirrors
- ■ Two front working lights (boom, guard)

CAB & CONTROL
- ■ Two control levers, pilot-operated
- ■ Horn, electric
- ■ Integrated left-right slide-type control box
- ■ Ashtray
- ■ Cigarette lighter
- ■ Cab light (interior)
- ■ Coat hook
- ■ Large cup holder
- ■ Detachable two-piece floor mat
- ■ 7-way adjustable suspension seat
- ■ Retractable seatbelt
- ■ Headrest
- ■ Arm rest
- ■ Handrails
- ■ Heater and defroster
- ■ Intermittent windshield wiper with double-spray washer
- ■ Tinted safety glass
- ■ Pull-type front window and removable lower front window
- ■ Easy-to-read multi-display monitor
- ■ Automatic air conditioner
- ■ Emergency escape hammer
- ■ Radio, AM/FM Stereo with speaker
- ■ Travel alarm
- ■ Heightrizer for control box
- ■ Level indicator

■OPTIONAL EQUIPMENT

■ Wide range of bucket ■ Various optional arms ■ Wide range of shoes ■ Boom safety valve
■ Front-guard protective structure (may interfere with bucket action) ■ Additional hydraulic circuit
■ Additional counterweight (+300 kg) ■ Add-on type counterweight (+400 kg)
■ Cab additional lightb■ Control pattern charger (2 way, 4 way) ■ N&B piping, N&B selector
■ Step extension ■ Additional center track guide ■ Belly pan guard ■ Rain visor (may interfere with bucket action) ■ Skylight

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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Bulletin No. ACERA GEOSPEC SK75SR-101
20120103000 Printed in Japan

KOBELCO

Hydraulic Excavators

ACERA GEOSPEC

SK75SR

Offset Boom Specification

- ■ Bucket Capacity:
  0.22 - 0.28 m³ ISO heaped
- ■ Engine Power:
  42 kW /2,200 min-1 (ISO14396)
- ■ Operating Weight (with Dozer):
  8,350 kg

Complies with the latest exhaust emission regulations

US EPA Tier III | EU (NRMM) Stage IIIA | Latest Japanese Regulations

We Save You Fuel
Achieving a Low-Carbon Society

Fuel Consumption Gives You The Competitive Edge

KOBELCO's SR hydraulic excavator has seen a new evolution.
KOBELCO has installed its full range of fuel-saving technologies in this SR model, resulting in unmatched low fuel consumption that heads the class in engine-driven hydraulic excavators.
In its offset boom configuration, the SK75SR couples its tiny rear swing radius with an offset boom function that allows it to operate with even greater efficiently in extremely limited work area.
This makes it the ideal choice for civil engineering projects, sidewall digging, and the ditch excavation in urban environments where space is at a premium.

NEXT-3E

Pursuing the "Three E's
The Perfection of Next-Generation, Network Performance

Enhancement
Greater Performance Capacity

Economy
Improved Cost Efficiency

Environment
Features That Go Easy on the Earth

*Photo is the optional specs with FOPS guard.

Five Merits:

- Superb Cost Performance
- Efficient Performance
- iNDr
- Fast, Accurate and Low Cost Maintenance
- Comfort and Safety Support Smooth Operation

ACERA GEOSPEC **Acera Geospec**

The "GEO" in GEOSPEC expresses our respect for our planet, and for the solid ground where excavators are in their element. This is accompanied by SPEC, which refers to the performance specifications needed to get the job done efficiency as we carry on the tradition of the urban-friendly ACERA series.

Superb Cost Performance

Fuel Consumption and Work Volume

The new hydraulic system and an additional ECO-mode have cut fuel consumption by up to 27%.

H-mode (vs previous SK70SR in H-mode)
Fuel consumption (L/h) 6 % decrease
Work volume per liter of fuel (m³/L) 6 % increase

S-mode (vs previous SK70SR in H-mode)
Fuel consumption (L/h) 13 % decrease
Work volume per liter of fuel (m³/L) 15 % increase

ECO-mode (vs previous SK70SR in S-mode)
Great leap forward in energy-saving performance
Fuel consumption (L/h) 27 % decrease
Work volume per liter of fuel (m³/L) 31 % increase

* All figures from KOBELCO tests.

ECO-mode

Work modes for a close 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 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.

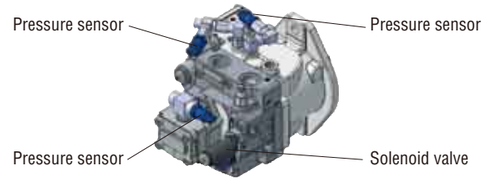
Significant Extension of Continuous Working Hours

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

Fuel tank capacity:
120 L

1 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 the best outcome: top-class work performance on less fuel.



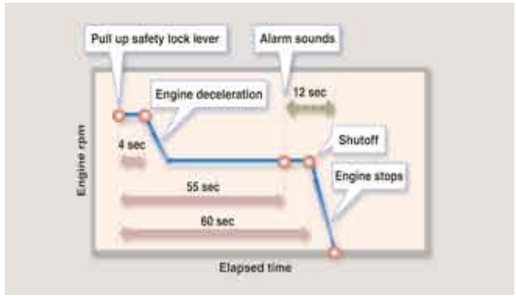
2 NEXT-3E Technology
High Reliable Engine

The engine is a PFR-pump fuel injection engine for high reliability.

3 NEXT-3E Technology
Total Tuning Through Advanced ITCS Control

Auto Idle Stop Provided as Standard Equipment

This function saves fuel and cut emissions by shutting down the engine automatically when the machine is on stand by. It also stops the hourmeter, which helps to retain the machine's asset value.



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.

Max. arm crowding force: **40.0 kN {4.0 tf}**

Max. bucket digging force: **52.5 kN {5.4 tf}**

Powerful Travel, Powerful Steering

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: **76.8 kN {7.8 tf}**

Dozer Simultaneous Operations

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

Compact Working Range

Rear overhang when swinging is just 125 mm, with a maximum tail overhang of only 490 mm in the forward left cab corner. With such a small working radius, the SK75SR Offset Boom Specification is ideal for continuous digging, swinging, and loading in tight spaces.

●**Min. working width (180°):**
2,970mm

**Photo is the optional specs with FOPS guard.*

Offset Boom

The press-constructed boom is both lightweight and slender for smooth operation, with hydraulic piping fitted inside the cylinders to protect it from damage. The large offset makes it easy to dig right next to the walls.

●**Digging width at outer edge of right crawler:**
755mm

●**Digging width at outer edge of left crawler:**
70mm

Work Range Limiter

This feature prevents damage to wall, beams and buried structures by limiting the depth, height, and left-handed offset value reached by the attachment. It both prevents unwanted contact with external objects and facilitates side-wall digging and other repetitive operations.

●To operator can set operational limitations and positional information for the bucket when engaged in side-wall digging.

iNDr

Ultimate Low Noise

KOBELCO's exclusive iNDr Cooling System delivers amazingly quiet operation. In fact the SK75SR is 5 dB quieter than the value designated by the Japanese governments requirement for ultra-low-noise machinery.

"Ultimate"-Low Noise Level of
93dB(A)

The iNDr revolution

KOBELCO 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.

iNDr Means Easy Maintenance

Because the iNDr filter removes dust from the intake air, cooling components stay dirt-free and do not require regular cleaning. The iNDr filter itself can be easily removed and cleaned without the use of tools.

iNDr filter: removable without tools

Cooling unit and air cleaner

Fast, Accurate and Low-Cost Maintenance

Comfortable "On the Ground" Maintenance

All of components that require regular maintenance are laid out for easy access. Newly designed, the bonnet opens widely and at lower level.

Left side

iNDr filter/Battery/
Parallel cooling unit

Right side

Hydraulic pump/Fuel filter/
Water separator

Right guard

Main control valves/
Multi control valve(optional)/
Drain valve

Bonnet

Double-element air cleaner

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Long-life hydraulic oil:
5,000 hours

Super-Fine Filter

High-performance, super-fine filter has a 1,000 hour replacement cycle.

Fast Maintenance

❶Fuel tank equipped with bottom flange and large drain valve
❷Hour meter can be checked while standing on the ground
❸Easy-access fuse box.
❹Washer fluid tank located under the cab floor mat.
❺Detachable two-piece floor mat with handles for easy removal.
●Internal and external air conditioner filters can be easily removed without tools for cleaning.
●Special crawler frame designed is easily cleaned of mud.

Meets EMC (Electromagnetic Compatibility) Requirement

Electrical shielding ensured that the machines clear all European standards and neither cause or are affected by electromagnetic interference.

Comfort and Safety Support Smooth Operation

Big Cab

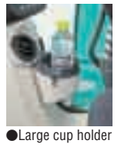
The “Big cab” provides a roomy operating space with plenty of legroom, and the door opens wide for entry and exit. As well as giving a wide, open view to the front, the cab has increased window areas on both sides and to the rear, for improved visibility in all directions.

*Photo is the optional specs with FOPS guard.

Comfortable Operating Environment

●Double slide seat

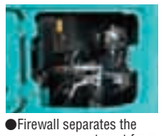
●One-touch lock release simplifies opening and closing front window



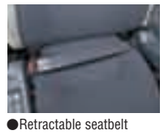
●Large cup holder

●Spacious luggage tray

Many Safety Features



●Firewall separates the pump compartment from the engine



●Retractable seatbelt requires no manual adjustment

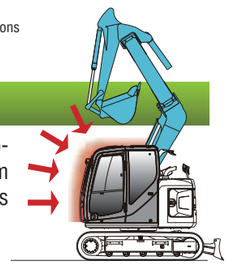
●Level indicator that shows degree of machine tilt

●Hammer for emergency exit

●Handrails meet European standards
●Thermal guard prevents contact with hot components during engine inspections
●Travel alarm
●Hammer for emergency exit

Work Range Limiter

When digging with the boom raised high, this automatic shutdown function prevents the bucket from damaging the cab through a mechanism that brings the attachment to a smooth, gradual stop.



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 should the machine tip over.

*Photo is the optional specs with FOPS guard.

●Level 2 FOPS Guard (ISSO 10262) is available as option.
●To fit vandalism guards, please contact your KOBELCO dealer. (Mounting brackets for vandalism guards)

Design provides equipment protection and peace of mind

Design modifications keep vital equipment protected from damage: Breaker hosing, together with the main hydraulic hoses, is now run inside the boom, the boom angle sensor is fitted within the boom, and more.

●Boom angle sensor

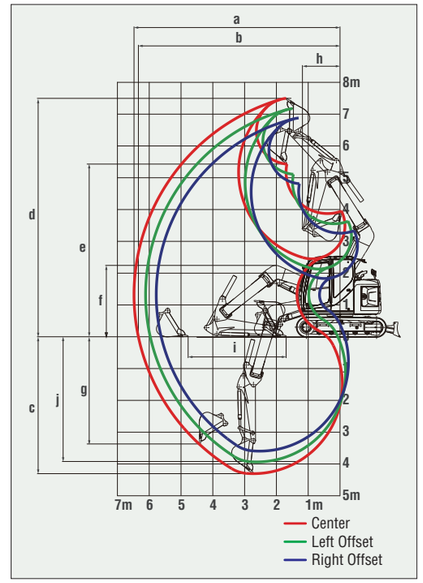
●Internal boom offset cylinder

●Internal hosing

Working Range

Unit: m

Boom	Offset Boom Specification					
Arm	Standard: 1.76 m			Long: 2.06 m		
Offset	Max. Left	Center	Max. Right	Max. Left	Center	Max. Right
a- Max. digging reach	6.11	6.48	5.78	6.39	6.75	6.05
b- Max. digging reach at ground level	5.97	6.34	5.62	6.25	6.62	5.90
c- Max. digging depth	3.94	4.30	3.60	4.24	4.60	3.90
d- Max. digging height	7.18	7.50	6.88	7.41	7.73	7.11
e- Max. dumping clearance	5.11	5.43	4.81	5.34	5.66	5.04
f- Min. dumping clearance	2.13	2.45	1.83	1.85	2.17	1.55
g- Max. vertical wall digging depth	3.02	3.37	2.70	3.36	3.71	3.04
h- Min. swing radius	1.42	1.22	2.04	1.44	1.32	2.04
i- Horizontal digging stroke at ground leve	3.10	3.08	3.11	3.61	3.59	3.64
j- Digging depth for 2.4 m (8') flat bottom	3.55	3.92	3.21	3.89	4.26	3.55
Bucket capacity ISO heaped m³	0.28			0.22		

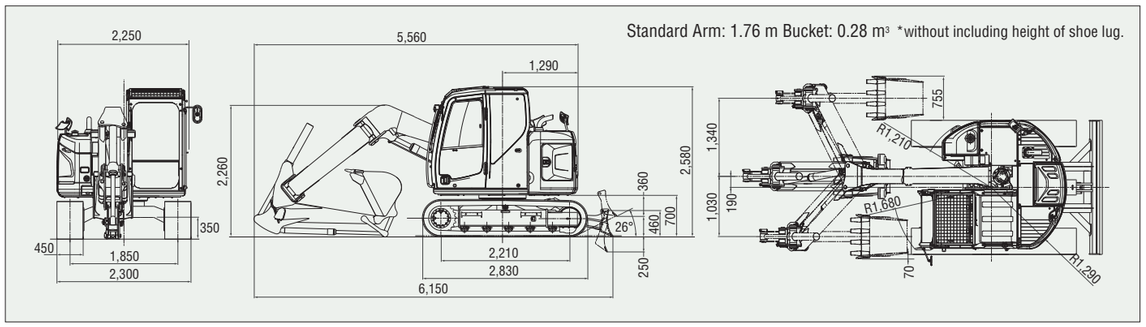


Operating Weight & Ground Pressure

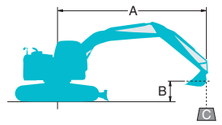
Shaped		Triple grouser shoes (even height)	
Shoe width	mm	450	600
Overall width of crawler	mm	2,300	2,450
Ground pressure	kPa {kgf/cm²}	37.5 {0.38}	37.6 {0.38}
Operating weight	kg	8,350	8,380

Dimensions

Unit: mm



Lifting Capacities



Rating over front

Rating over side or 360 degrees

A - Reach from swing centerline to bucket hook
B - Bucket hook height above/below ground
C - Lifting capacities in kilograms
• Relief valve setting: 29.4 MPa

SK75SR Offset Boom Specification		Arm: 1.76 m Bucket: 0.28 m³ ISO heaped 210 kg Shoe: 450 mm Add. Counterweight: 1,100 kg						
A / B		3.0 m		4.5 m		At max. reach		Radius
6.0 m	kg					*2,070	*2,070	2.95 m
4.5 m	kg	*2,100	*2,100	1,630	1,370	1,590	1,340	4.55 m
3.0 m	kg	*2,610	*2,610	1,540	1,290	1,110	920	5.29 m
1.5 m	kg	2,750	2,210	1,370	1,130	930	760	5.55 m
GL	kg	2,400	1,890	1,230	1,000	910	740	5.38 m
-1.5 m	kg	2,340	1,840	1,190	960	1,090	880	4.76 m
-3.0 m	kg	*1,800	*1,800			*1,550	*1,550	3.41 m

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 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. Bucket lift hook is defined as lift point.
4. The above lifting capacities are in compliance with SAE J/ISO 10567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load. Lifting 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 machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.