

STANDARD EQUIPMENT

ENGINE

- Engine, ISUZU AU-4LE2X engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V - 64Ah)
- Starting motor (24V - 3.2 kW), 30A alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner

CONTROL

- Working mode selector (H-mode, S-mode)

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake

MIRRORS & LIGHTS

- Four rearview mirrors
- Two front working lights

CAB & CONTROL

- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Integrated left-right slide-type control box
- Ashtray
- Cigarette lighter
- Cab light (interior)
- Coat hook
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- 7-way adjustable suspension seat
- Retractable seatbelt
- Headrest
- Handrails
- Heater and defroster
- Intermittent windshield wiper with double-spray washer
- Skylight
- 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 speakers
- Travel alarm (optional for NZ)
- Heightlizer for control box

OPTIONAL EQUIPMENT

- | | |
|---|---|
| <ul style="list-style-type: none"> ■ Dozer blade ■ Wide range of buckets ■ Various optional arms ■ Wide range of shoes ■ Boom safety valve ■ Arm safety valve | <ul style="list-style-type: none"> ■ Front-guard protective structures (May interfere with bucket action) ■ Additional hydraulic circuit ■ Add-on counterweight ■ Cab light ■ Control pattern changer (2 way, 4 way) ■ N&B piping, N&B selector |
|---|---|

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

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN
Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135
www.kobelco-kenki.co.jp/english_index.html

Inquiries To:

Bulletin No. ACERA GEOSPEC SK70SR-2-ANZ-101
2008042500 Printed in Japan

ACERA
GEOSPEC
SK70SR

Hydraulic Excavators

- Bucket Capacity:
0.28 m³ SAE heaped
- Engine Power:
41 kW (56 PS)
SAE NET/2,200 min⁻¹ {rpm}
- Operating Weight:
7,570 kg

Complies with the latest exhaust emission regulations



US
EPA Tier III



EU (NRMM)
Stage IIIA



Latest Japanese
Regulations

That's KOBELCO!
Your First Choice

Powerful, Agile and Quiet.

-ACERA GEOSPEC SR Series SK70SR-



New Performance Capabilities with a Small Rear Swing

The rounded form says it all: an excavator built with a tiny rear swing for maximum maneuverability. But KOBELCO has taken this concept one step further by seeing just how much digging performance can be packed into a machine. It's not the compact design that matters so much as the performance and functions that are actually used on site. And that's just where the new SR Series really shines, thanks to our NEXT-3E concept. So much so, in fact, that the SK70SR and other members of the series bear the same Acera Geospec name as our line of full-size excavators. Thanks to key iNDr technology, we've realized a whole new level of quiet operation, backed by a next-generation power plant that pushes performance to extraordinary new heights. Nine years after developing groundbreaking machines with tiny rear swings, KOBELCO continues to forge ahead as the leader in the field.

Photo: SK70SR with Japanese spec. (Optional dozer blade, etc.)

NEXT-3E



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

Enhancement

Greater Performance Capacity

- New hydraulic circuit: load sensing system installed.
- High-efficiency, PFR-pump fuel injection engine
- Powerful travel and arm/bucket digging force

Economy

Improved Cost Efficiency

- Advanced power plant that reduces fuel consumption
- Easy maintenance that reduces upkeep costs
- High structural durability and reliability that retain machine value longer

Environment

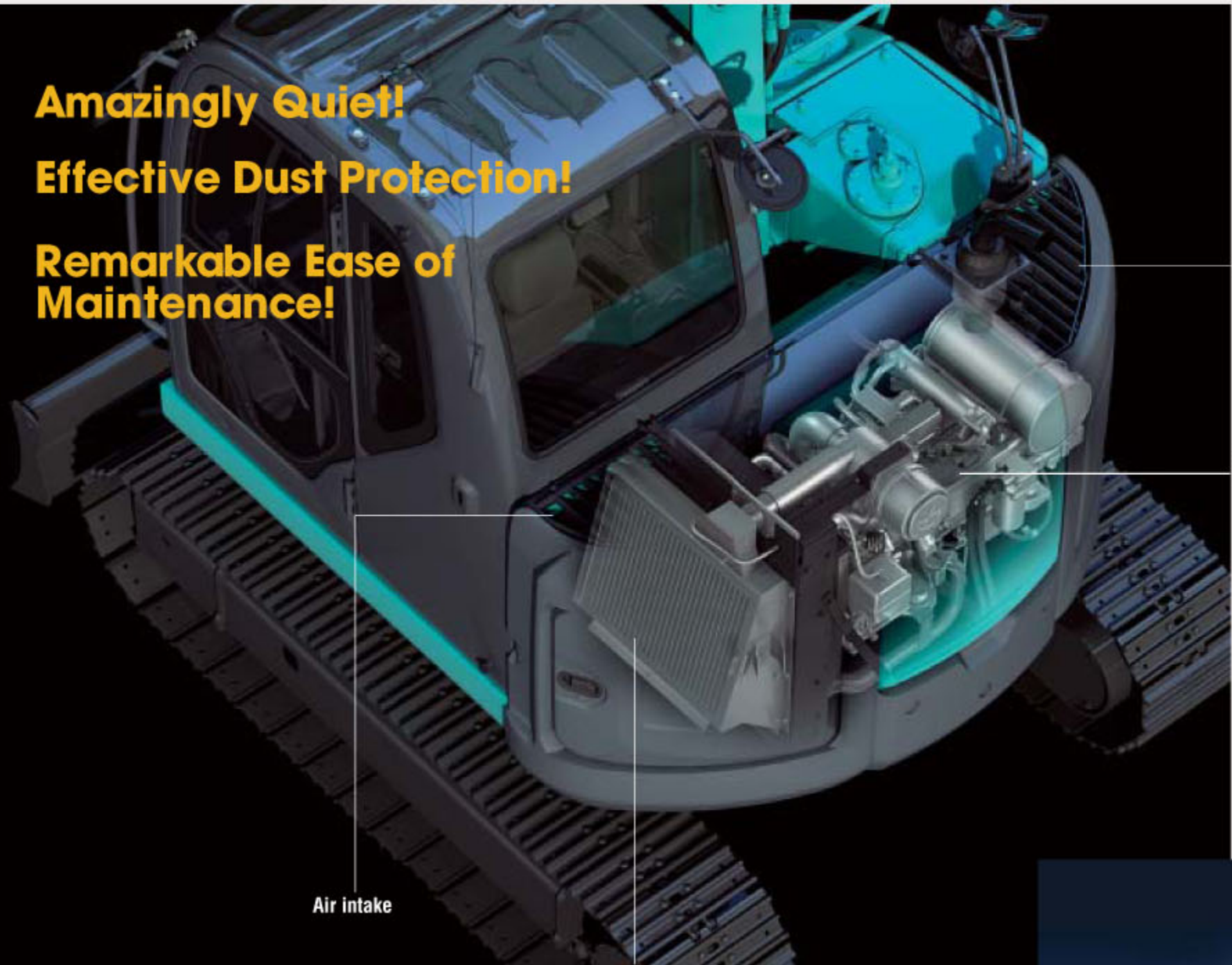
Features That Go Easy on the Earth

- Newly developed iNDr technology reduces operational noise
- Meets the latest exhaust emissions standards
- Auto Idle Stop as standard equipment

ACERA
Geospec ACERA GEOSPEC

The "GEO" in GEOSPEC expresses our deep 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 efficiently as we carry on the tradition of the urban-friendly ACERA series.

Amazingly Quiet!
Effective Dust Protection!
Remarkable Ease of Maintenance!



Air intake

iNDR Filter

Exhaust outlet

Closed-structure engine compartment

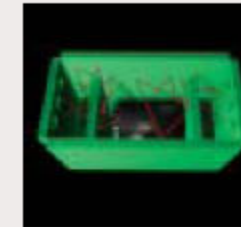
* Not completely sealed



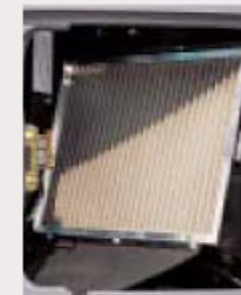
The iNDR Revolution



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.



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.



iNDR Filter

Also, iNDR filter in the intake aperture prevents dust from penetrating, which not only ensures a quieter, cleaner engine, but also supports the performance of the cooling unit and enhances ease of maintenance.

Far Surpassing Legal Requirements

The ACERA GEOSPEC SR series has broken through to a new frontier in quiet operation, with a noise level which clears the Japanese government's requirements for ultra-low-noise machinery. In fact, compared with previous KOBELCO models, we have achieved a 10 dB reduction on the right-side surface of the machine, a difference that is clearly audible.



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

iNDR Filter Improves Operational Reliability

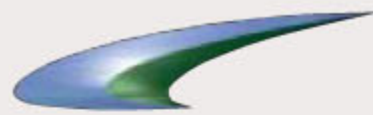


The stainless-steel filter is extremely effective against dust, with a 60-mesh wave-type screen that removes tiny dust particles from the intake air. This not only helps to keep the cooling unit and air cleaner running in top form, but also maintains ideal heat balance.

* "60-mesh" means that there are 60 holes formed by horizontal and vertical wires in every square inch of filter.

Cooling Unit Requires No Regular Cleaning

Because the iNDR filter removes dust from the intake air, no dust gets into block the cooling components, so that no regular cleaning is necessary. The filter can be removed easily without tools and is installed in parallel with the intercooler, radiator, and oil cooler for easy access.



The GEOSPEC Difference:
More Work with Less Fuel !

Fuel Consumption and Work Volume

Amazing productivity with a max. 17% decrease in fuel consumption per hour and a max. 22% increase in work volume per liter of fuel.

Fuel Consumption and Work Volume (New S-mode)

	Vs Previous SK70SR in H-mode	Vs Previous SK70SR in S-mode
Fuel Consumption (L/h)	17% decrease	4% decrease
Work volume per liter of fuel (m³/L)	22% increase	12% increase

"Top-Class" Powerful Digging

Max. arm crowding force: **39.4 kN** (4.0 tf)

Max. bucket digging force: **52.7 kN** (5.4 tf)

Powerful Travel

Travel torque: increased by **4 %**

Drawbar pulling force: **71.7 kN** (7.3 tf)

Greater Swing Power, Shorter Cycle Times

Swing torque: **19.1 kN·m**

Swing Speed: **11.5 min⁻¹**

Significant Extension of Continuous Working Hours

The combination of a large-capacity fuel tank and excellent fuel efficiency delivers an impressive max. 47% increase in continuous operation hours.*

Fuel tank capacity:
120 L
(41 % UP)

Light Lever Operation

Lighter levers mean less operator fatigue over long hours of operation. **10 % Less**



High reliable engine

New, high-efficiency pump

Solid stability

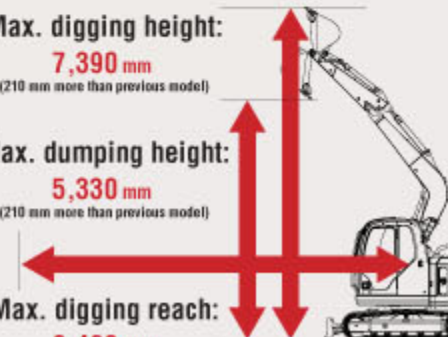
While boom and arm are longer, machine stability is solid. Excellent working ranges.

Max. digging height:
7,390 mm
(210 mm more than previous model)

Max. dumping height:
5,330 mm
(210 mm more than previous model)

Max. digging reach:
6,460 mm
(150 mm more than previous model)

Max. digging depth:
4,160 mm
(60 mm more than previous model)



1 NEXT-3E Technology New Hydraulic System

The use of one pump and a load sensing system reduces hydraulic power loss. A new hydraulic system has been installed that keeps energy loss to the minimum through circuits that minimize pressure loss, an advanced high efficiency pump, and other features.

The load sensing system is powerful and makes simultaneous operations easy, and KOBELCO's unique tuning makes starts smoother. Together they achieve a feel in the control levers that is most 'natural', closest to what the operator expects.

2 NEXT-3E Technology Highly reliable engine



The new engine is a PFR-pump fuel injection engine for high reliability. It is equipped with cooled EGR that lowers the temperature of the air intake to reduce its oxygen concentration. It achieves big reductions in particulate matter (PM) and NOx emissions while boosting output.

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

Simple Select: Two Digging Modes



H-Mode: For heavy duty when a higher performance level is required.
S-Mode: For normal operations with lower fuel consumption.

Mode select switch

N&B hosing (option)

A circuit for nibbler/breaker use is fitted as optional. The selector valve is under the engine guard on the right and can be operated from the ground without the use of tools.



Selector



Flow limiter for breaker

N&B pedal

*The value shows results from actual measurements taken by KOBELCO continuous operation in S Mode, compared with previous model. Results will vary depending on operating method and load conditions.

The GEOSPEC Difference:
Rugged Durability That Ensures Long-Term Machine Value!

Double element air cleaner

A high-performance, large-capacity air cleaner that doubles the replacement interval is installed as standard. Positioned to the rear of iNDR filter, it filters and cleans more reliably.

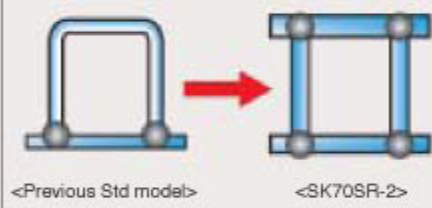


High-quality urethane paint

New arm design

Use of a four-side independently welded structure is combined with optimal thickness of steel plate. Strength is increased something between 3~7% and overall it is as strong as the previous three-side reinforced type.

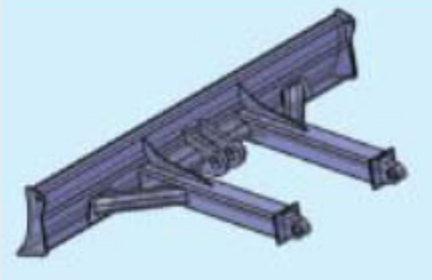
Arm cross section



Easily repaired bolted handrails

Dozer arm

The square-pipe-shaped arm is 1.5 times wider than the previous type, and is made of thicker steel plate. Torsional rigidity is increased by 50%.



Highly Reliable ITCS

The manufactured quality of the ITCS controller has been further upgraded, with special measures taken to protect against water and dust. Improvements have also been made in the specs of the pressure sensors, as well as anti-noise performance.

The GEOSPEC Difference:
Designed to Operate Effectively in Close Quarters!

Watch the Job in Front, Not the Counterbalance

The tail of the upper body extends very little past the back end of the crawlers so that the operator can concentrate on the job at hand instead of worrying about the position of the counterweight. This not only improves operating efficiency but reduces costs associated with collision damage.

Requires 3.05 m of Working Space

The compact design allows the machine to perform continuous dig, 180°-swing and dump operations within a working space of 3.05 m.



Tail overhang: **130 mm**

Min. front swing radius: **1,760 mm**
Tail swing radius: **1,290 mm**

Working distance **3,050 mm**

Working distance equals the sum of the minimum forward swing radius and tail swing radius.

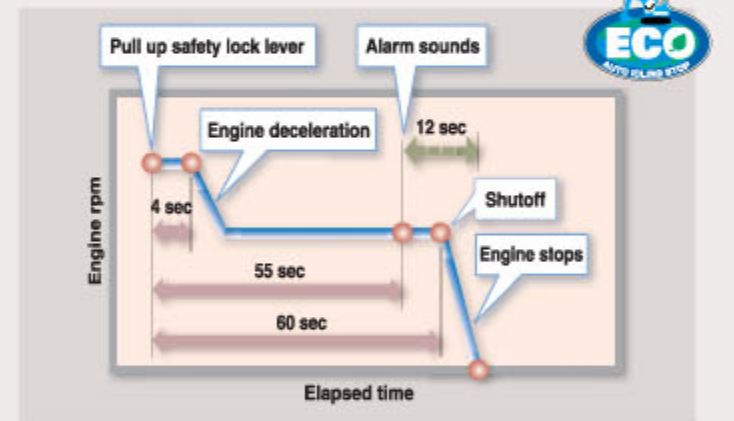
The GEOSPEC Difference:
Designed for the Environment and the Future!

Meets Standard Values Set by Emissions Regulations

The engine used in the GEOSPEC machines represents the crystallization of various cutting-edge technologies that minimize the emission of PM (Particulate Matter), NOx, black smoke, and other emissions, thus meeting all internationally recognized environmental regulations, including US EPA Tier III, NRMM (Europe) Stage IIIA, and the latest Japanese regulations.

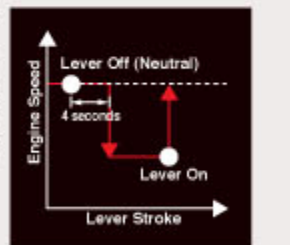
Auto Idle Stop Provided as Standard Equipment

This function saves fuel and cuts 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.



Mild Operating Sound

The iNDR cooling system also helps to keep the machine quiet, even at close quarters. Even the hydraulic relief valves have been designed specifically to reduce irritating noise during operation.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

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

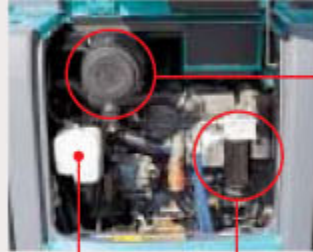
The GEOSPEC Difference: Fast, Accurate and Low-Cost Maintenance!

Comfortable "On the Ground" Maintenance

All of the components that require regular maintenance are laid out for easy access. Newly designed, the bonnet opens widely and at a lower level. And in a new layout, equipment that requires maintenance is positioned in easily accessible locations. The number of servicing jobs that can be completed from the ground or in the cab has increased from 10 to 15.

• Easy access to cooling units

Left side



Radiator reservoir tank



Engine oil filter

• Easy access to pump & filters

Right side



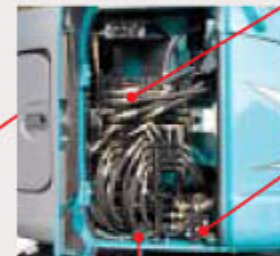
Large fuel filter (with built-in water separator)/Water separator



Air cleaner

2 3 4
5 6

• Easy access to main control valves



N&B selector (optional)

Multi control valve (optional)

Drain cock for fuel tank

Tool box

iNDr Means Easy Maintenance

iNDr Filter Blocks Out Dust



Outside air goes directly from the intake duct through the iNDr filter for dust removal. The filter features a 60-mesh screen, which means it has sixty holes per inch both vertically and horizontally, with a wide front surface area and accordion structure that resists clogging.

Visual Checking and Easy Cleaning



When checking and cleaning the cooling system, one must deal with several different 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.

Long-Interval Maintenance

Long-life hydraulic oil:
5,000 hours

• Long-life hydraulic oil reduces cost and labor

Super-fine Filter

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

Double-Element Air Cleaner

The high-performance air cleaner has twice the capacity and service life of previous air cleaners and is installed behind the iNDr filter for even more effective cleaning performance.

High-Grade Fuel Filter with Superior Filtration Performance

The high-performance, large capacity filter is specially designed for a common-rail engine and features 1.8 more filtering area than previous filters.

Monitor Display with Essential Information for Accurate Maintenance Checks



• Displays only the maintenance information that's needed, when it's needed.
• Self-diagnostic function that provides early-warning detection and display of electrical system malfunctions.
• Record function of previous breakdowns including irregular and transient malfunction.

Choice of 16 languages for Monitor Display

With messages including those requiring urgent action displayed in the local language, users in all parts of the world can work with greater peace of mind.

Fast Maintenance



• Fuel tank equipped with bottom flange and large drain cock.



• Hour meter can be checked while standing on the ground.



• Easy-access fuse box. More finely differentiated fuses make it easier to locate malfunctions.



• Washer fluid tank located under the cab floor mat.

• Starter easily replaced from the pump side

Easy Cleaning



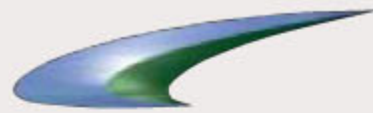
• Detachable two-piece floor mat with handles for easy removal. A floor drain located under floor mat



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



• Special crawler frame designed is easily cleaned of mud



The GEOSPEC Difference:

A Working Environment That Helps the Operator Concentrate on the Job at Hand!

New Large Cab



KOBELCO has developed a new, large cab for the ACERA GEOSPEC SR series that features the same width and height as the cabs on full-size machines. The operator has plenty of space in front for easy, comfortable operation, with ample foot room.

- 45mm wider than previous models for a total width of 1,005 mm
- Cab height is 1,720 mm, or 25 mm more than previous models.
- An amazing amount of legroom, with 750 mm floor space front-to-back.

Excellent Visibility

The wide, open view in front combines with minimized blind spots around the machine for greater onsite safety.



- Front window area is 8% larger than previous models
- Reinforced green glass meets European standards
- New "rise-up" wipers keep the view clear and clean
- Broad wiper area improves visibility in bad weather

Wide-Access Cab Ensures Smooth Entry and Exit



The cab door is 40 mm wider than the previous models, and the control box together with the safety lock lever tilts up by a larger angle, for easy cab entry and exit. The height of the door handle is positioned for easy opening and closing, to facilitate entry and exit of the cab.

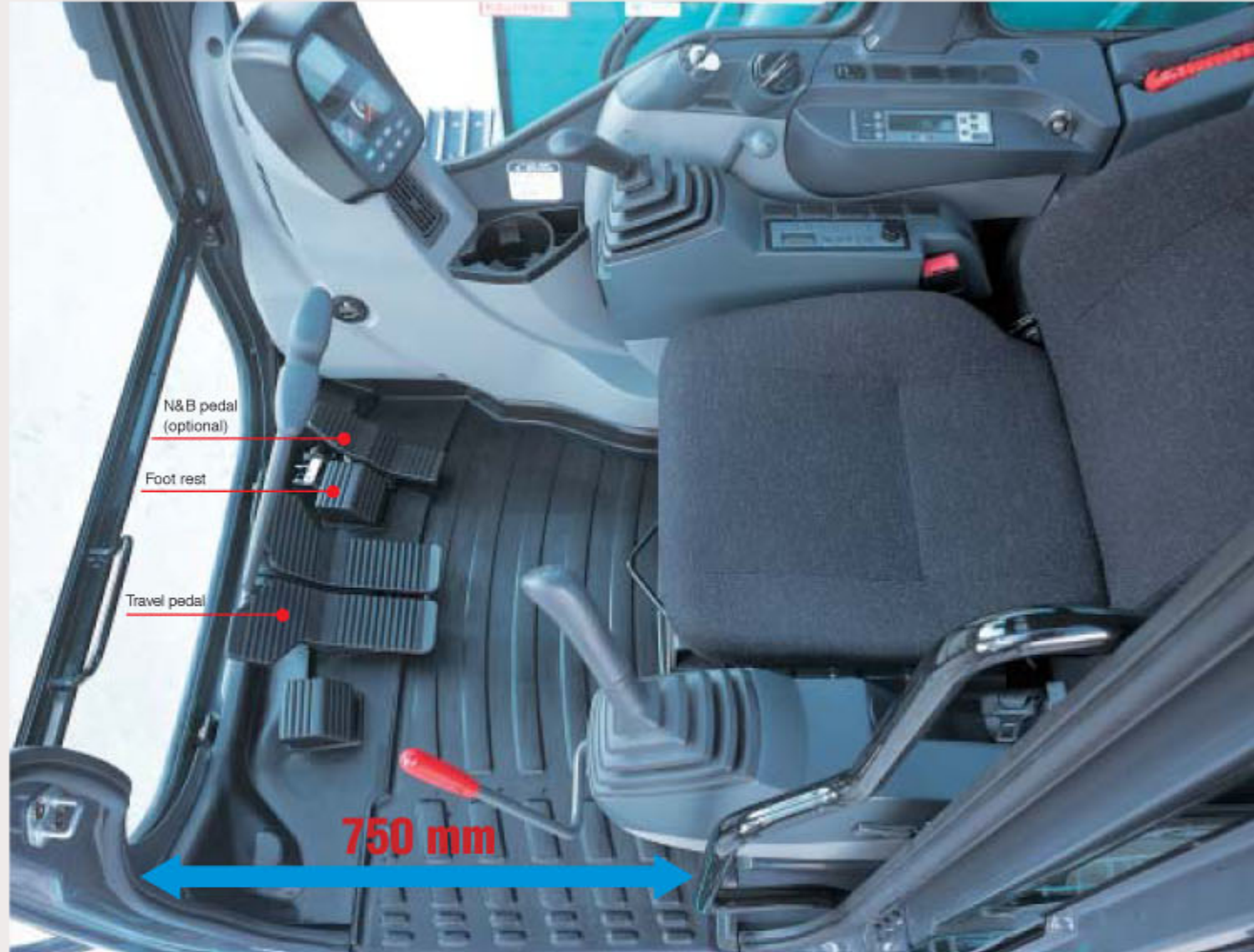
In-Cab Noise is Reduced by 5dB

Compared with Previous Models
Noise is prevented from reaching inside the cab through the new iNDR system, as well as thorough sealing of all gaps. Cab vibration has been significantly reduced through high cab rigidity and rigidity of the upper frame, and liquid-sealed viscous cab mounts.



Always Easy to Read! New Information Display

Large analog gauges with large numbers and letters and glare-reducing visors are always easy to read regardless of working conditions.



The photo includes optional pedals for N & B. Suspension seat not shown.

Comfortable Operating Environment



• New reclining seat can be lowered well down to the back.



• Double slide seat



• Powerful automatic air conditioner



• Two-speaker FM/AM radio with station select



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



• Large cup holder



• Spacious luggage tray

Cab Brackets



The ACERA GEOSPEC SR series has a safety rating equivalent to FOPS level 1. In addition to the standard roof guard, optional front and head guards are available. They can be easily attached with bolts to the standard cab brackets.

Safety Features That Take Various Scenarios into Consideration



• Firewall separates the pump compartment from the engine

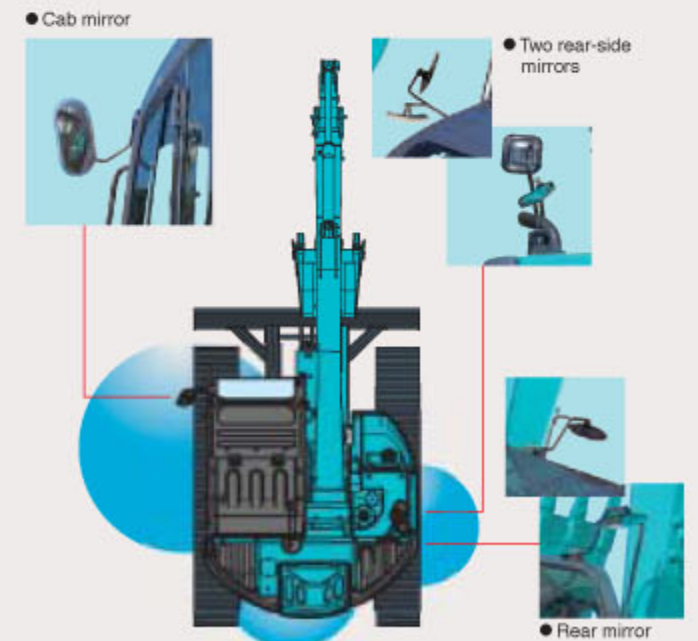


• Hammer for emergency exit

- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment
- Travel alarm (optional for NZ)

Better Visibility Than Ever Before

The wide, open view in front combines with minimized blind spots around the machine for greater onsite safety, with two mirrors, a cab mirror, and two rear mirror providing better visibility than ever before.



• Cab mirror

• Two rear-side mirrors

• Rear mirror

Optional Features That Further Enhance Safety

- Cab operating light
- Fire extinguisher
- Rearview camera and monitor
- Boom holding valve
- One-way call

Engine

Model	ISUZU AU-4LE2X
Type:	Direct injection, water-cooled, 4-cylinder diesel engine with turbocharger, intercooler (Complies with EU (NRMM) Stage IIIA, US EPA Tier III, and Japanese Latest Exhaust Emission Regulations)
No. of cylinders:	4
Bore and stroke:	85 mm x 96 mm
Displacement:	2.179 L
Rated power output:	41 kW (56 PS)/2,200 min ⁻¹ (rpm)
Max. torque:	200 N·m/1,600 min ⁻¹ (rpm)

Hydraulic System

Pump	
Type:	One variable displacement pump + 1 gear pump
Max. discharge flow:	1 x 132 L/min, 1 x 18 L/min
Relief valve setting	
Boom, arm and bucket:	29.4 MPa (300 kgf/cm ²)
Travel circuit:	29.4 MPa (300 kgf/cm ²)
Dozer blade circuit:	27.5 MPa (280 kgf/cm ²)
Swing circuit:	24.5 MPa (250 kgf/cm ²)
Control circuit:	3.50 MPa (36 kgf/cm ²)
Pilot control pump:	Gear type
Main control valves:	8-spool
Oil cooler:	Air cooled type

Swing System

Swing motor:	Axial piston motor
Brake:	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake:	Oil disc brake, hydraulic operated automatically
Swing speed:	11.5 min ⁻¹ (11.5 rpm)
Tail swing radius:	1,290 mm
Min. front swing radius:	1,760 mm

Attachments

Backhoe bucket and arm combination

Use	Backhoe bucket						
	Standard		Narrow		Wide		
Bucket capacity	(SAE heaped) m ³	0.28	0.11	0.14	0.18	0.22	0.35
	(Struck heaped) m ³	0.25	0.10	0.13	0.16	0.20	0.30
Opening width or X-section	With side cutter mm	750	—	480	550	650	780
	Without side cutter mm	680	400	410	480	580	850
No. of bucket teeth		4	3	3	3	4	4
Bucket weight kg		210	190	160	170	190	—
Combinations	1.71 m Standard arm	⊗	○	○	○	○	△
	2.13 m Long arm	△	○	○	○	⊗	—

⊗ Standard ○ Recommended △ Loading only

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:	39 each side
Travel speed:	5.3 / 2.8 km/h
Drawbar pulling force:	71.7 kN (7,310 kgf) (J 1349 MAY91)
Gradeability:	70 % (35°)

Cab & Control

Cab	
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 cylinders:	110 mm x 916 mm
Arm cylinder:	95 mm x 833 mm
Bucket cylinders:	80 mm x 735 mm

Dozer blade (optional)

Dozer cylinders:	120 mm x 150 mm
Dimension:	2,320 mm (width) x 460 mm (height)
Working range:	355 mm (up) x 245 mm (down)

Refilling Capacities & Lubrications

Fuel tank:	120 L
Cooling system:	8.5 L
Engine oil:	11 L
Travel reduction gear:	2 x 5.3 L
Swing reduction gear:	1.5 L
Hydraulic oil tank:	72 L tank oil level 120 L hydraulic system

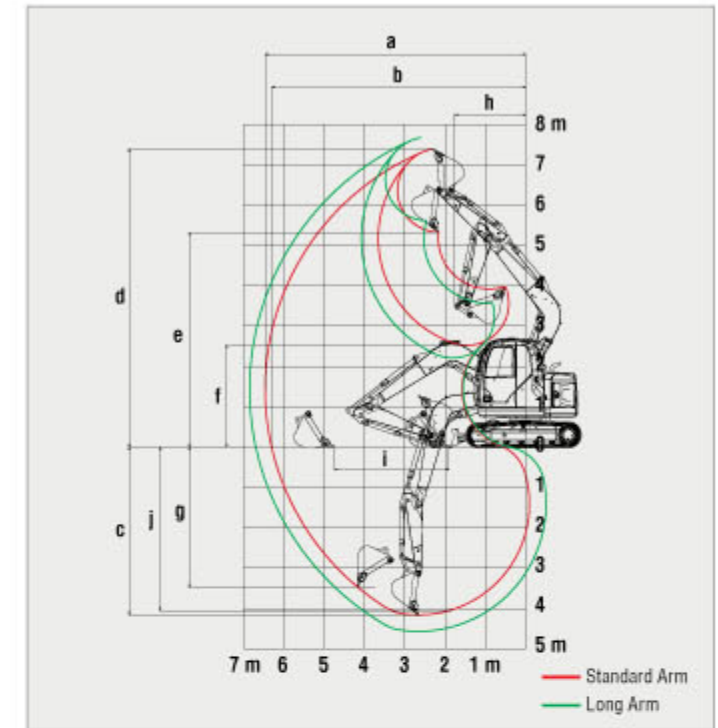
Working Ranges

Range	Arm	Unit: m	
		Standard 1.71 m	Long 2.13 m
a - Max. digging reach		6.46	6.85
b - Max. digging reach at ground level		6.30	6.70
c - Max. digging depth		4.16	4.58
d - Max. digging height		7.39	7.69
e - Max. dumping clearance		5.33	5.63
f - Min. dumping clearance		2.53	2.22
g - Max. vertical wall digging depth		3.45	3.86
h - Min. swing radius		1.76	2.12
i - Horizontal digging stroke at ground level		2.85	3.27
j - Digging depth for 2.4 m (8') flat bottom		3.80	4.27
Bucket capacity SAE heaped m ³		0.28	0.22

Digging Force (ISO 6015)		Unit: kN (kgf)	
Arm length		Standard 1.71 m	Long 2.13 m
		Bucket digging force	52.7 (5,370)
Arm crowding force		39.4 (4,020)	35.2 (3,450)

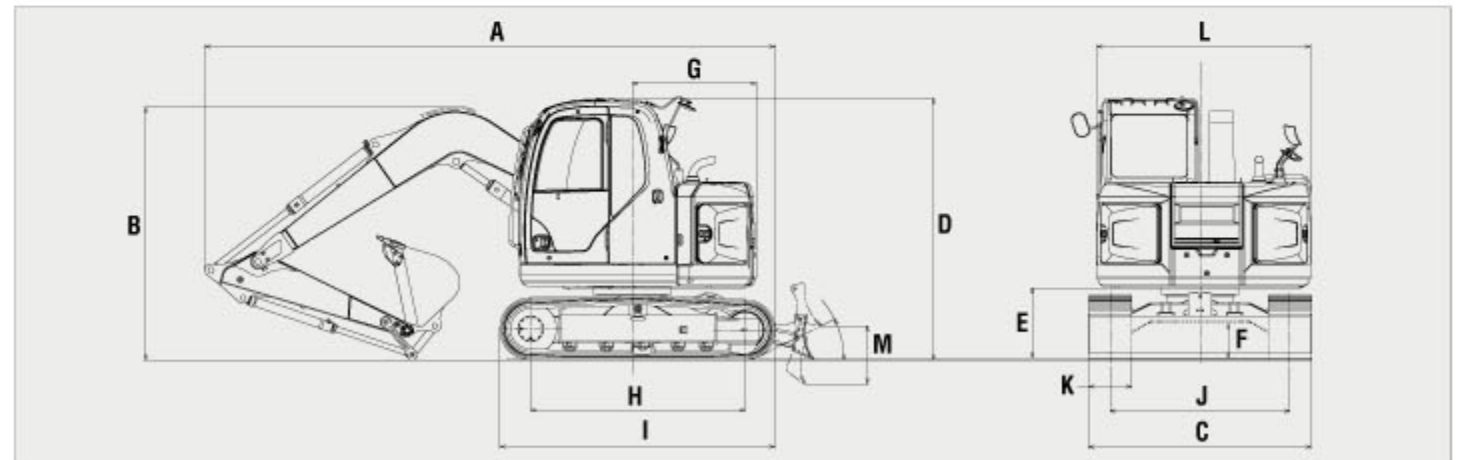
Dimensions

Arm length	Standard 1.71 m	Long 2.13 m
A Overall length	5,830	5,970
B Overall height (to top of boom)	2,630	2,960
C Overall width of crawler	2,320	
D Overall height (to top of cab)	2,740	
E Ground clearance of rear end*	730	
F Ground clearance*	360	



		Unit: mm
G Tail swing radius		1,290
H Tumbler distance		2,240
I Overall length of crawler		2,860
J Track gauge		1,870
K Shoe width		450/600
L Overall width of upperstructure		2,230
M Dozer blade (up/down)**		355 (27°)/245

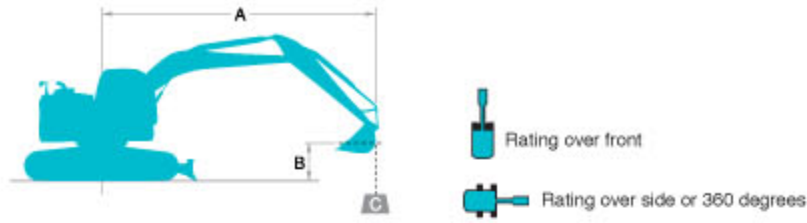
* Without including height of shoe lug
** Dozer blade is optional.



Operating Weight & Ground Pressure

In standard trim, with standard boom, 1.71 m arm, and 0.28 m³ SAE heaped bucket

Shaped	Triple grouser shoes (even height)	
Shoe width mm	450	600
Overall width of crawler mm	2,320	2,470
Ground pressure kPa (kgf/cm ²)	33.6 (0.34)	26 (0.26)
Operating weight kg	7,570	7,800



A - Reach from swing centerline to bucket hook
 B - Bucket hook height above/below ground
 C - Lifting capacities in kilograms
 • Max. discharge pressure: 29.4 MPa (300 kg/cm²)

SK70SR		Standard Arm: 1.71 m Bucket: 0.28 m ³ SAE heaped 210 kg Shoe: 450 mm									
		1.5 m		3.0 m		4.5 m		At Max. reach		Radius	
B	A	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
6.0 m	kg			*1,680	*1,680			*1,520	*1,520	3.15 m	
4.5 m	kg			*1,950	*1,950	*1,550	1,310	*1,320	1,230	4.64 m	
3.0 m	kg	*4,730	*4,730	*2,510	*2,510	1,500	1,250	1,090	900	5.34 m	
1.5 m	kg			2,760	2,200	1,390	1,150	960	790	5.56 m	
G. L.	kg			2,560	2,020	1,310	1,060	980	800	5.37 m	
-1.5 m	kg	*4,060	*4,060	2,530	1,990	1,290	1,050	1,200	980	4.70 m	
-3.0 m	kg	*2,450	*2,450	*1,700	*1,700			*1,510	*1,510	3.28 m	

SK70SR		Standard Arm: 1.71 m Bucket: 0.28 m ³ SAE heaped 210 kg Shoe: 600 mm									
		1.5 m		3.0 m		4.5 m		At Max. reach		Radius	
B	A	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
6.0 m	kg							*1,540	*1,540	3.00 m	
4.5 m	kg			*1,930	*1,930	*1,370	1,320	*1,320	1,300	4.59 m	
3.0 m	kg	*4,510	*4,510	*2,460	*2,460	1,520	1,270	1,140	950	5.33 m	
1.5 m	kg			2,790	2,790	1,410	1,170	1,000	830	5.56 m	
G. L.	kg	*1,810	*1,810	2,580	2,580	1,330	1,090	1,020	840	5.37 m	
-1.5 m	kg	*4,130	*4,130	2,560	2,560	1,310	1,070	1,260	1,030	4.68 m	
-3.0 m	kg	*2,340	*2,340	*1,600	*1,600			*1,490	*1,490	3.21 m	

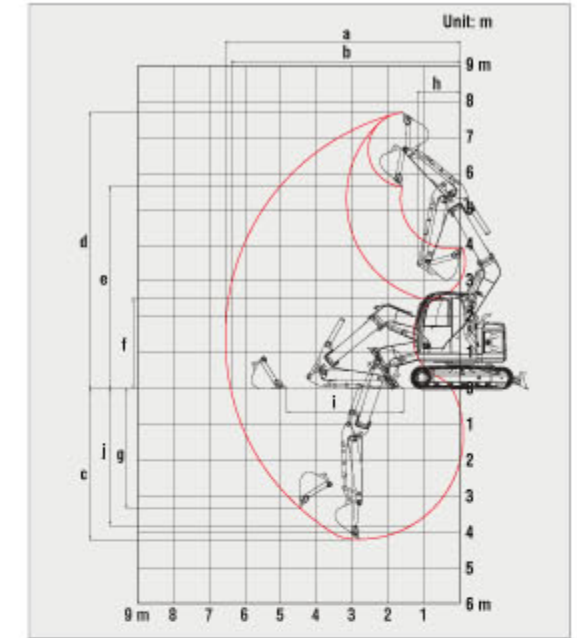
SK70SR		Long Arm: 2.13 m Bucket: 0.22 m ³ SAE heaped 170 kg Shoe: 450 mm									
		1.5 m		3.0 m		4.5 m		At Max. reach		Radius	
B	A	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
6.0 m	kg							*1,330	*1,330	3.82 m	
4.5 m	kg					*1,590	1,360	1,190	1,040	5.12 m	
3.0 m	kg			*2,220	*2,220	1,530	1,270	950	790	5.76 m	
1.5 m	kg			2,820	2,260	1,400	1,160	850	690	5.96 m	
G. L.	kg			2,550	2,010	1,300	1,060	850	690	5.78 m	
-1.5 m	kg	*3,500	*3,500	2,480	1,950	1,260	1,020	1,010	820	5.17 m	
-3.0 m	kg	*3,440	*3,440	*2,150	2,010			*1,520	1,310	3.93 m	

SK70SR		Long Arm: 2.13 m Bucket: 0.22 m ³ SAE heaped 170 kg Shoe: 600 mm									
		1.5 m		3.0 m		4.5 m		At Max. reach		Radius	
B	A	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
6.0 m	kg							*1,350	*1,350	3.70 m	
4.5 m	kg					*1,580	1,360	*1,190	1,100	5.07 m	
3.0 m	kg			*2,180	*2,180	1,540	1,290	1,000	830	5.74 m	
1.5 m	kg			2,850	2,290	1,420	1,180	880	730	5.96 m	
G. L.	kg	*1,800	*1,800	2,580	2,040	1,320	1,080	890	730	5.78 m	
-1.5 m	kg	*3,570	*3,570	2,510	1,980	1,280	1,040	1,060	860	5.16 m	
-3.0 m	kg	*3,320	*3,320	*2,070	*2,050			*1,510	1,400	3.87 m	

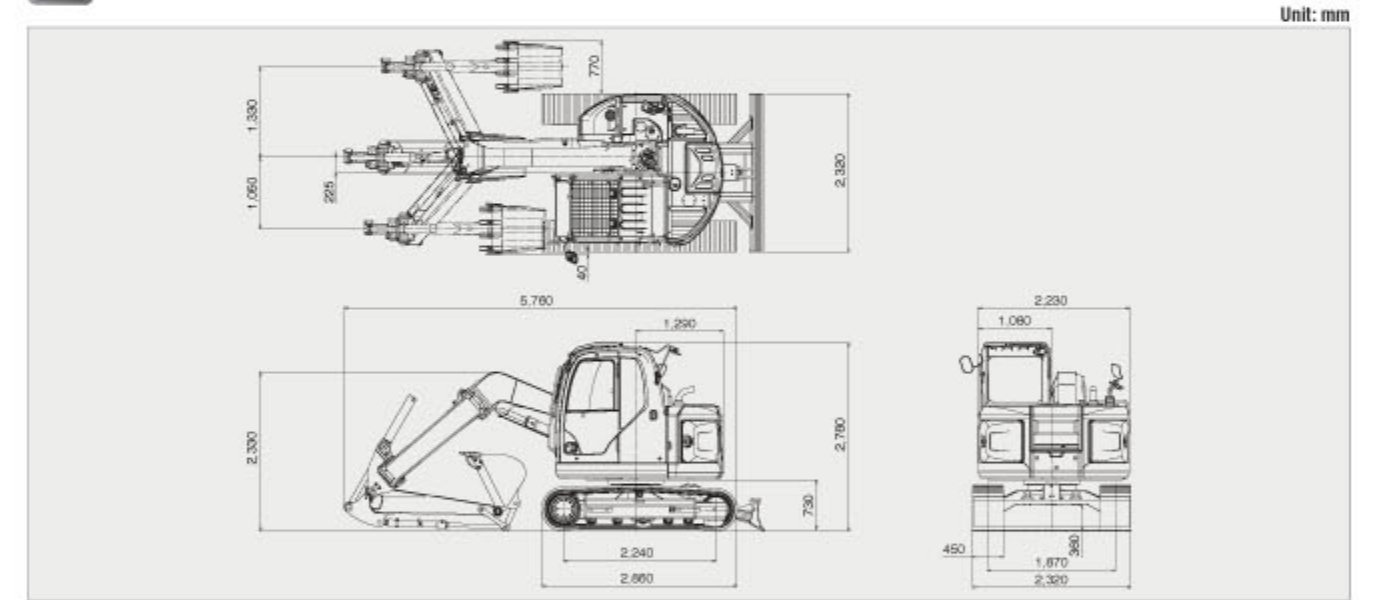
- Notes:**
- Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift capacities.
 - Lift capacities are based on machine standing on level, firm, and uniform ground. 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.
 - Bucket lift hook defined as lift point.
 - 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.
 - 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.
 - Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Backhoe Attachment Working Ranges

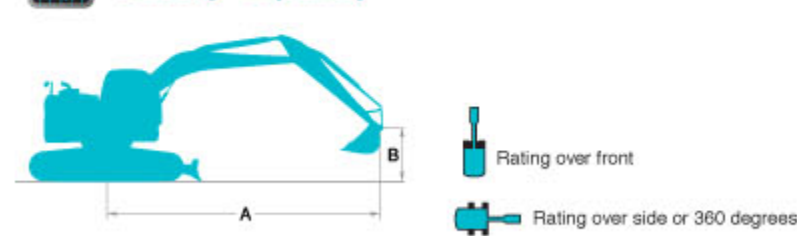
Arm Offset	1.86 m		
	(Center)	Max. (left)	Max. (right)
a - Max. digging reach	6.55	6.17	5.86
b - Max. digging reach at ground level	6.39	6.00	5.68
c - Max. digging depth	4.21	3.83	3.52
d - Max. digging height	7.71	7.37	7.09
e - Max. dumping clearance	5.64	5.30	5.03
f - Min. dumping clearance	2.51	2.17	1.89
g - Max. vertical wall digging depth	3.32	2.97	2.67
h - Min. front swing radius	1.20	1.49	2.11
i - Horizontal digging stroke at ground level	3.22	3.24	3.26
j - Digging depth for 2.4 m (8') flat bottom	3.84	3.46	3.14
Bucket capacity SAE heaped	0.28 m ³		



Dimensions



Lifting Capacity



A - Reach from swing centerline to bucket hook
 B - Bucket hook height above/below ground
 C - Lifting capacities in kilograms
 • Max. discharge pressure: 29.4 MPa (300 kg/cm²)

Side Digging Application

SK70SR		Arm: 1.86 m Bucket: 0.28 m ³ SAE heaped 210 kg Shoe: 450 mm Counterweight +260kg add-on							
		3.0 m		4.5 m		At Max. reach		Radius	
B	A	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
6.0 m	kg	*510	*510			*1,960	*1,960	3.26 m	
4.5 m	kg	*490	*490	1,700	1,410	1,530	1,270	4.71 m	
3.0 m	kg	*2,600	*2,370	1,590	1,310	1,100	890	5.40 m	
1.5 m	kg	2,830	2,220	1,410	1,140	930	750	5.62 m	
G. L.	kg	2,490	1,910	1,270	1,010	930	730	5.43 m	
-1.5 m	kg	2,430	1,850	1,230	970	1,120	880	4.77 m	
-3.0 m	kg	*1,530	*1,530			*1,330	*1,330	3.38 m	