STANDARD EQUIPMENT

ENGINE
- Engine, SAA6D14DE-5, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2x12V - 190Ah)
- Starting motor (24V - 11kW), 60 amp alternator
- Removable clean-out screen for radiator
- Automatic engine shut-off for low engine oil pressure
- Engine oil pan drain valve
- Double element air cleaner x 2
- Fuel filters
- Fuel pre-filter
- Engine oil filter
- Corrosion register
- Radiator reserve tank

CONTROL
- Working mode selector (H-mode ,S-mode, B-mode and A- mode)
- Power Boost

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

HYDRAULIC
- Arm regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Hydraulic oil filter
- Drain filter

MIRRORS & LIGHTS
- Two rearview mirrors
- Four front and two rear working lights
- Swing flashers

CAB & CONTROL
- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Integrated left-right slide-type control box
- Cab, all-weather sound suppressed type
- 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
- Sunshade
- 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)

OPTIONAL EQUIPMENT

- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Boom safety valve
- Front-guard protective structures
- Additional hydraulic circuit

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 SK850LC-ANZ-201
2009102000 Printed in Japan

KOBELCO

ACERA GEOSPEC

Hydraulic Excavators

SK850LC

- Bucket Capacity:
  2.8 – 5.4 m³ ISO heaped
- Engine Power:
  370 kW {503 PS} /1,800 min⁻¹{rpm} (ISO14396)
- Operating Weight:
  78,200 kg – 80,500 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

The Power Wave of Change

Announcing ACERA GEOSPEC and The Concept of Beautiful Performance

When we set out to design our new ACERA GEOSPEC hydraulic excavators, we kept our eyes on the big picture. Of course we wanted machines that would sell well, but we didn't want to emphasize one aspect of performance at the expense of other features. So, instead of narrowly focusing on fuel-efficient, economical operation, for example, or on environmental compatibility, or on any other particular feature, we sought to develop well-rounded machines that can balance seemingly contradictory demands. Now, we're proud to introduce the latest member of the ACERA GEOSPEC family—the 80-ton SK850LC. This machine has it all: the highest productivity in its class; a resilient power plant; outstanding durability proven in the field in large building demolition machines; easy transportability; and an environmentally responsible design that reduces fuel consumption and operating costs. In short, the SK850LC satisfies all of the tough conditions that must be met by a large excavator engaged in demanding, continuous operations. So welcome to the birth of a new standard of performance: the 80-ton ACERA GEOSPEC SK850LC. With its efficient, sleek design, it brings a whole new excavating style to the worksite that's tuned to the natural beauty of our world.

NEXT-3E

Pursuing the "Three E's"

The Perfection of Next-Generation, Network Performance

Enhancement

Greater Performance Capacity

- New hydraulic circuitry minimizes pressure loss
- High-efficiency, electronically controlled Common Rail Fuel Injection Engine
- Powerful travel and arm/bucket digging force
- High-power engine and high swing torque

Economy

Improved Cost Efficiency

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

Environment

Features That Go Easy on the Earth

- Meets the latest exhaust emission standards*
- Auto Idle Stop as standard equipment
- Noise reduction measures (with improvement of the sound quality) minimize noise and vibration

** In some regions, products do not feature EGR (exhaust gas recirculation) and are not Tier III-compliant.*

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.

The GEOSPEC Difference:

Efficient Performance!

Great Productivity and Low Fuel Costs

Advanced hydraulic technology keeps fuel costs low matches pump output with a high efficiency engine that conserves fuel, resulting in great productivity and low fuel costs.

High Swing Torque

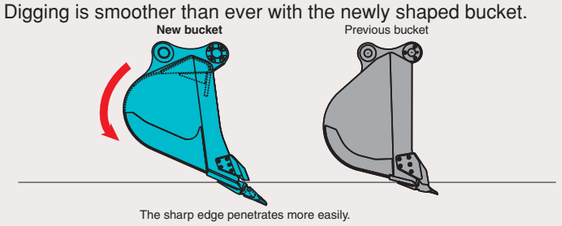
The use of high swing torque delivers a smoother, stronger and faster swing for faster, more efficient cycle times. It also provides plenty of start-up swing power for safe operation on slopes.

Swing torque: **268 N·m**

Swing speed: **8.4 min^{-1}**

Plenty of Digging Force

Digging is smoother than ever with the newly shaped bucket.



Max. bucket digging force: **403 kN {41.1 tf}**

Max. arm crowding force: **311 kN {31.7 tf}**

Strongest Travel Power and Drawbar Pulling Force in Its Class!

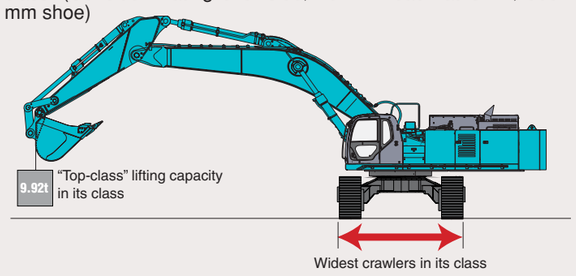
The large-capacity motor delivers the strongest travel power and drawbar pulling force in the machine's class, making it ideal for large civil engineering projects, rock-crushing work, and other power-intensive applications.

Travel speed: **4.2/2.7 km/h**

Drawbar pulling force: **637 kN {65.0 tf}**

Excellent Lateral Stability

The SK850LC has the widest crawlers in its class for outstanding lateral stability. Fitted with a 5.4 m^3 bucket, it can safely lift a maximum of 9.92 tons over the side, the most in its class. (Condition: rating over side, 10.7 m reach at G. L., 900 mm shoe)



NEXT-3E

Extended Continuous Operation (Large-Capacity Fuel Tank)

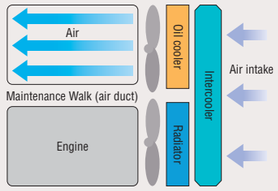
The large-capacity fuel tank, combined with higher fuel efficiency, enables the SK850LC to operate continuously for twelve hours.

Fuel tank: 960L

New Cooling System

The cooling fan changes speed automatically according to the temperature of the cooling water in the radiator. This prevents overheating when the water temperature rises, allowing continuous, high-load operation. When the water temperature falls, the cooling system operates very quietly, contributing to both low noise and low fuel consumption.

The patented Maintenance Walk as air duct is another KOBELCO innovation that further enhances the cooling system's effectiveness.



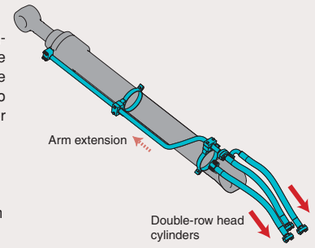
Light-Touch Levers

The operating levers are light and easy to move, reducing operator fatigue over long hours of operation.

Seamless, Smooth Combined Operations

The GEOSPEC machines have inherited the various systems that make inching and combined operations easy and accurate, with further refinements that make a good thing even better. Leveling and other combined operations can be carried out with graceful ease.

- The arm cylinder heads are arranged in a double row to reduce pressure loss in the return line and enhance fuel efficiency. The double row also enables faster arm retraction for better productivity.

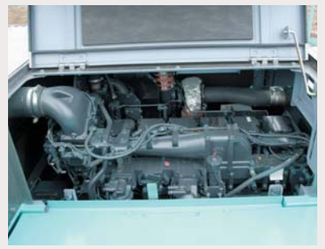


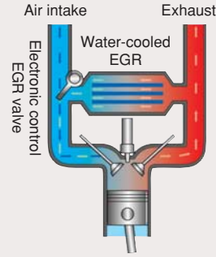
- Electronic active control system
- Arm regeneration system
- Boom lowering regeneration system
- Variable swing priority system
- Swing rebound prevention system

1 NEXT-3E Technology
New Hydraulic System

Rigorous inspections for pressure loss are performed on all components of the hydraulic piping, from the first spool of the control valve to the connectors. This regimen, combined with the use of a new, high-efficiency pump, cuts energy loss to a minimum.

2 NEXT-3E Technology
Next-Generation Electronic Engine Control





The high-pressure, common-rail fuel-injection engine features a cooled EGR (Exhaust Gas Recirculation) device that lowers the air intake temperature to keep the oxygen concentration down. The multiple injection system features adjustable control to maximize fuel efficiency and provide powerful low-speed torque. The result is a highly fuel-efficient engine that greatly reduces emissions of PM (particulate matter) and NOx into the atmosphere.

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 (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.

Attachment Mode Selector Switch (Optional) NEW!

There's a choice of three different hydraulic circuits, to accommodate bucket, crusher or breaker, and the desired attachment mode can be selected with a switch, which automatically configures the selector valve. All attachment modes can be used in either S-mode or H-mode.

Dump Counter Is Available

Using the dump counter switch, which operates in tandem with the motor, the operator can display on the monitor and record the number of dumps made.

The GEOSPEC Difference:

The Value and Quality of Sturdy Construction!

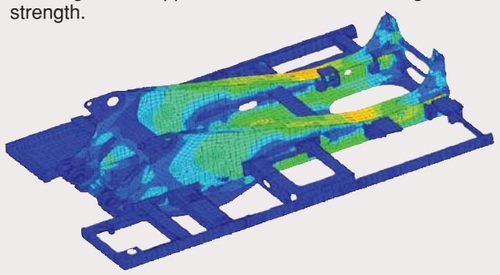
Large excavators are often used on steep, rough roads in mountains and quarries where they are expected to operate continuously for many hours at a time. They have to be durable. The high-strength construction of the SK850LC has already been proven through use in large KOBELCO building demolition machines, and has been carefully scrutinized through 30,000 hours of additional durability testing. It has the tough durability required in all of its components, including the upper and lower body and attachment.

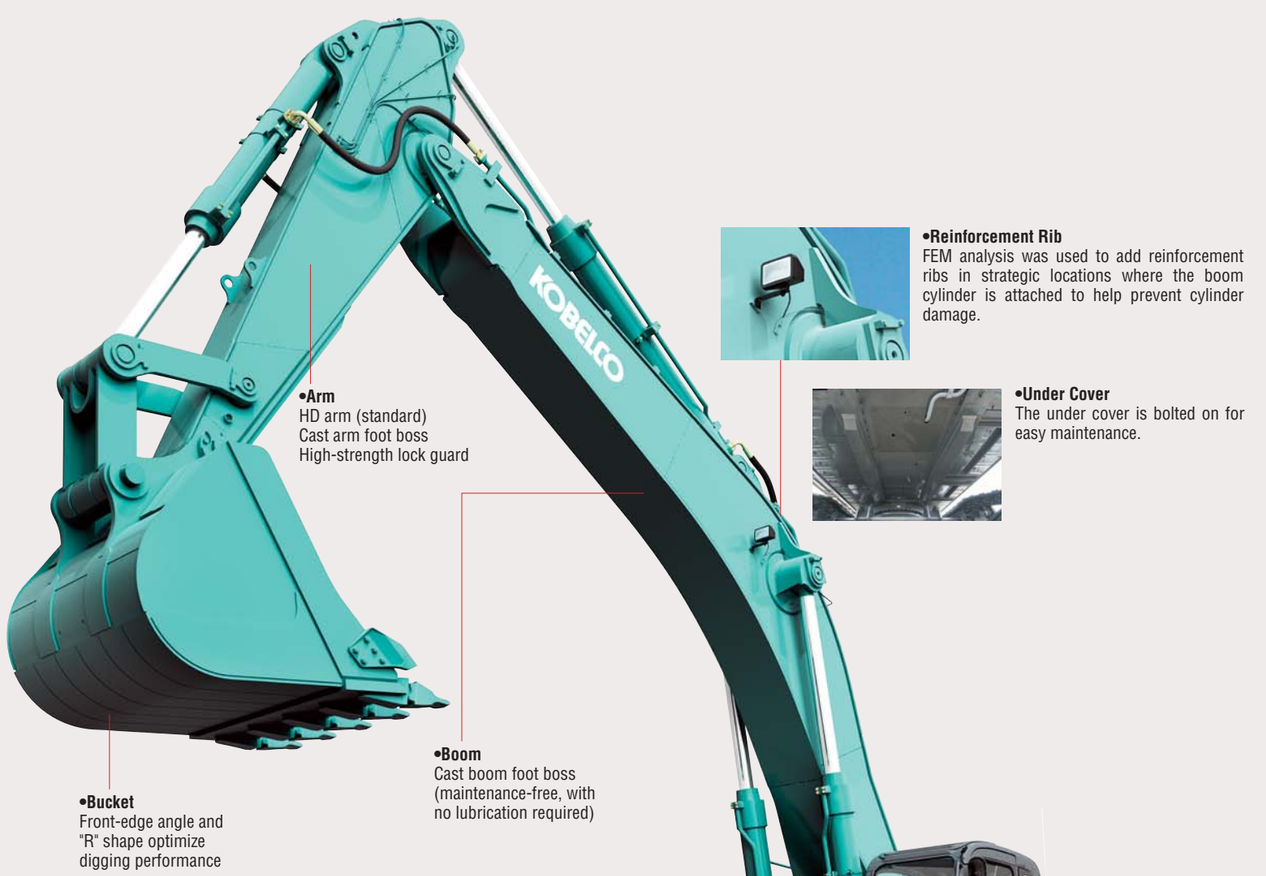
Stable Attachment Strength

All components are either cast or forged, with HD type boom and arm provided as standard equipment. The balanced design ensures excellent durability even when using a large bucket, providing highly reliable attachment strength.

Upper Frame with High Structural Strength

FEM analysis was used determine the best materials, select the steel plate, and create a high-strength design to resulting in an upper frame that features high structural strength.





•Arm
HD arm (standard)
Cast arm foot boss
High-strength lock guard

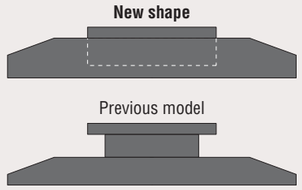
•Bucket
Front-edge angle and "R" shape optimize digging performance

•Boom
Cast boom foot boss (maintenance-free, with no lubrication required)

•Reinforcement Rib
FEM analysis was used to add reinforcement ribs in strategic locations where the boom cylinder is attached to help prevent cylinder damage.

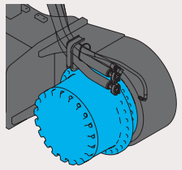
•Under Cover
The under cover is bolted on for easy maintenance.

Strong Carbody Structure

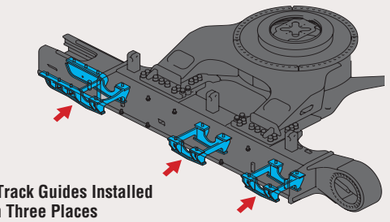


Strength is especially crucial in the carbody. The swing mechanism on the SK850LC is mounted without a column, thereby increasing the carbody's cross-section size for greater strength.

Large Components Used in the Crawler Frame



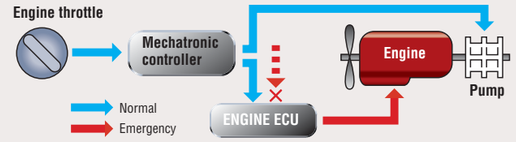
•Reinforced Travel Reduction Gear Cover
A high-strength protective cover enhances the durability of the travel reduction gear.

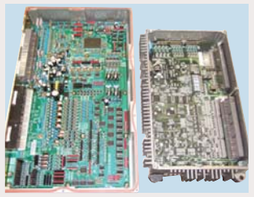


•Track Guides Installed in Three Places
Track guides installed in three different places improve travel stability and help prevent the crawlers from coming off the rollers. More track guides can be installed as an option.

Emergency Acceleration (Dial) Permits Continued Operation in the Unlikely Event of Malfunction

If the mechatronic system should happen to malfunction, the ECU will automatically put the engine into high idle (maximum RPM), allowing the operator to continue working until a service specialist can come to repair the machine. During emergency operation, the hydraulic pumps automatically sense any trouble and control hydraulic flow accordingly.





New MCU | Conventional MCU

Newly designed MCU

- Vertical alignment and sealed cover gives better protection from water and dust
- Integration in base plate boosts assembly quality
- Reliable fixture to base plate

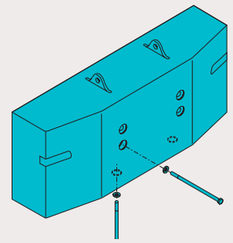
Countermeasures Against Electrical System Failure

All elements of the electrical system, including controller, have been designed for enhanced reliability.

Excellent Transportability

Counterweight Device

The counterweight device operates both vertically and horizontally for safe and efficient onsite assembly and disassembly.



Four Disassembly and Transport Patterns

The SK850LC can be disassembled and transported in four different ways, including: no counterweight, with boom attached; main body only; main body without crawler frame; etc.

Variable Gauge Crawler

The variable gauge crawler extends the crawlers to a maximum width of 4,300 mm (with 750 mm shoes) for extremely stable operation, and retracts them to a compact minimum width of 3,500 mm for easier transport.

The GEOSPEC Difference:

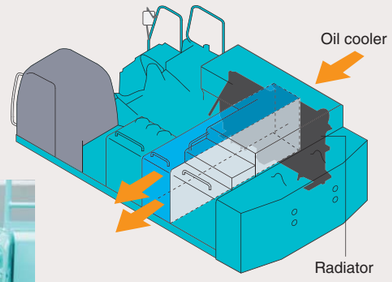
Easy Maintenance That Supports Large-Scale Operation!

Daily maintenance checks are essential for the successful operation of large, continuously operating excavators. Inspections and maintenance must be quick and easy to maximize productivity. With its maintenance walk, the SK850LC provides easy access to essential components and systems so that more time is spent on the job.

Handrails on top of upper frame and top of counterweight are customized equipment. (Available for Japanese market only)

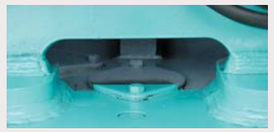
Maintenance Walk Serves as an Air Duct During Operation

Kobelco's unique design covers the maintenance walk to create an air duct that helps to keep the radiator cool during machine operation.

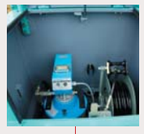


Easy Inspection of Swing Bearing, Gear and Bolt

A small access port is located in front of the upper frame to make it easier to inspect the swing bearing, gear and bolt.



Auto-Coil Grease Gun Holder
- Grease tank
- Lubrication hose
- Fuel tank drain valve



- Air cleaner

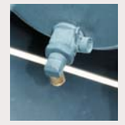
Bolted Double Service Doors Open and Close Easily
- Intercooler • A/C condenser • Fuel cooler • Radiator • Oil cooler

Around the engine compartment

- Fuel filter

- Fuel pre-filter with water separator

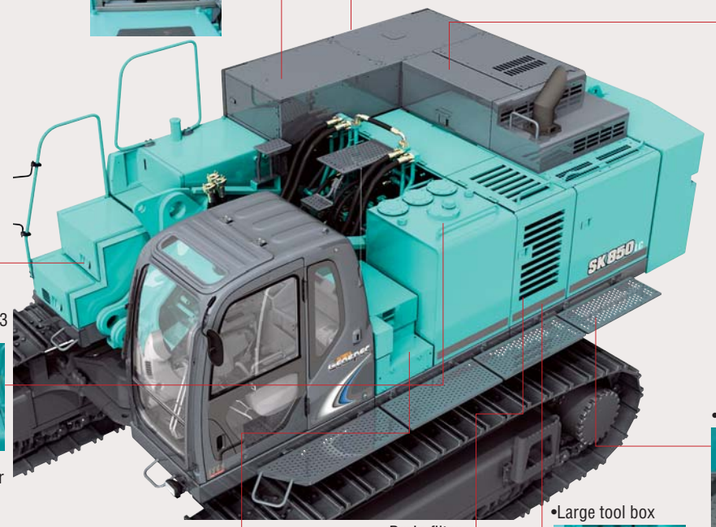
- Engine oil drain valve



- Engine oil filter

Simple Filtration
- Hydraulic oil filter x 3

- Suction filter



- Cat walk

- Battery

- Drain filter

- Large tool box

High-Grade Fuel Filter with Superior Filtration Performance

The high-performance, large capacity filter is designed specially for the common-rail fuel injection engine.

Highly Durable Super-fine Filter

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability. With a replacement cycle of 1,000 hours and a construction that allows replacement of the filter element only, it's both highly effective and highly economical.

● Super-fine filter **Long-life hydraulic oil filter: 1,000 hours**

More Efficient Maintenance Inside the Cab

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

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

● Air conditioner filter can be easily removed without tools for cleaning.

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 previous breakdowns, including irregular and transient malfunctions.

The GEOSPEC Difference:

Designed from the Operator's Point of View

Plenty of Foot Room

Comfortable 1,005 mm-Wide Cab.

Wide Field of View Liberates the Operator

The front field of view easily clears ISO standards, while the peripheral view reduces blind spots to a minimum.

- A long wiper covers a wide area for a broad view in bad weather.
- Back mirrors provide a safe view of the rear.
- Reinforced green glass windows meet European standards.

Wide-Access Cab Ensures Smooth Entry and Exit

The left control box lifts up with the safety lock lever to add 10° to the cab entry angle for easy entrance and exit.

Reduced Vibration for Fatigue-Free Operation

The rigid cab construction and liquid-filled viscous cab mounts minimize cab vibration. In addition, the use of new lower rollers on the crawlers cuts travel vibration in half compared with previous models.

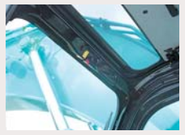
Creating a Comfortable Operating Environment

- Seat can be reclined to horizontal position

- Double slide and suspension seat

- Powerful automatic airconditioner

- Spacious luggage tray



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

- Large cup holder

- Two-speaker FM radio with station select (Optional)
- New interior design and materials create an elegant feel

The GEOSPEC Difference:

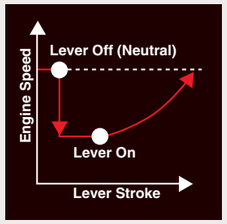
Designed for the Environment and the Future!

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 act on regulation, etc. of emission from non-road special motor vehicles (Japan).

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 full speed when the lever is moved out of neutral.



Low Noise Level and Mild Sound Quality

The electronically controlled common-rail engine has a unique fuel injection system that runs quietly. Also, the hydraulic pumps have been redesigned to produce a more pleasant sound during pressure relief. In short, the GEOSPEC series meets all requirements cited in latest EU stage II.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

Measures have been taken to ensure that the GEOSPEC machines do not cause electromagnetic interference. (Australia)

The GEOSPEC Difference:

Imagining Possible Scenarios and Preparing in Advance

Safety Features That Take Various Scenarios into Consideration

- Swing flashers/rear working lights

- Hammer for emergency exit

- Thermal guard prevents contact with hot components during engine inspections
- Hand rails meet European standards
- Retractable seatbelt requires no manual adjustment

Photo shows previous model.

Engine

Model	KOMATSU SAA6D14DE-5
Type:	Direct injection, water-cooled, 4-cycle electrically-controlled common rail system type diesel engine with turbocharger, intercooler (Complies with EU (NRMM) Stage IIIA, US EPA Tier III, and Act on Regulation, Etc. of Emissions from Non-road Special Motor Vehicles (Japan))
No. of cylinders:	6
Bore and stroke:	140 mm X 165 mm
Displacement:	15.24 L
Rated power output:	370 kW {503 PS} ISO NET at 1,800 min^{-1}{rpm} (ISO14396: 2002)
Max. torque:	2,197 N·m at 1,350 min^{-1}{rpm}
Electrical system:	D.C. 24V
Starter:	24 V, 11 kW
Alternator:	60 AMP
Batteries:	2 X 12 V – 190Ah

Hydraulic System

Pump	
Type:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 X 504 L/min, 1 X 30 L/min
Relief valve setting	
Boom, arm and bucket:	33.0 MPa {337 kgf/cm^2}
Travel circuit:	33.0 MPa {337 kgf/cm^2}
Swing circuit:	30.0 MPa {306 kgf/cm^2}
Control circuit:	5.0 MPa {50 kgf/cm^2}
Pilot control pump:	Gear type
Main control valves:	6-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:	Hydraulic disc brake
Swing speed:	8.4 min^{-1}{rpm}
Swing torque:	268 kN·m
Tail swing radius:	4,600 mm
Min. front swing radius:	6,340 mm

Travel System

Travel motors:	2 X axial-piston motor, two-step motors
Travel brakes:	Hydraulic disc brake
Parking brakes:	Oil disc brake per motor
Travel shoes:	51 each side
Travel speed:	4.2/2.7 km/h
Drawber pulling force:	637 kN {65,000 kgf} (J1309)
Gradeability	70 % (35°)
Ground clearance:	850 mm

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

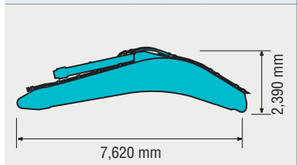
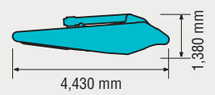
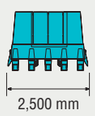
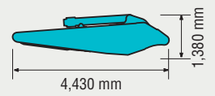
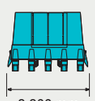
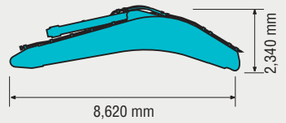
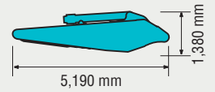
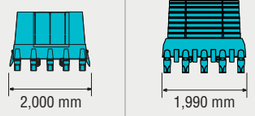
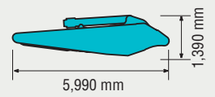
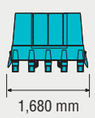
Boom, Arm & Bucket

Boom cylinders:	210 mm X 1,800 mm
Arm cylinder:	220 mm X 2,175 mm
Bucket cylinder:	200 mm X 1,570 mm

Refilling Capacities & Lubrications

Fuel tank:	960 L
Cooling system:	76 L
Engine oil:	58 L
Travel reduction gear:	2 X 22 L
Swing reduction gear:	2 X 21.5 L
Hydraulic oil tank:	473 L tank oil level 856 L hydraulic system

Boom, Arm and Bucket Combination

Boom	Arm	Bucket	Application
7.25 m Short boom	2.9 m	5.4 m^3	Mass Excavation Application
Weight: 8,060 kg	Weight: 4,130 kg	Weight: 3,630 kg	
			
8.25 m Standard Boom	2.9 m	4.6 m^3	Short Arm Application
Weight: 8,440 kg	Weight: 4,130 kg	Weight: 3,270 kg	
			
	3.6 m	3.5 m^3 / 3.5 m^3 HD	Standard Arm Application
	Weight: 4,240 kg	Weight: 2,610 kg / Weight: 3,700 kg	
			
	4.4 m	2,.8 m^3	Long Arm Application
	Weight: 4,730 kg	Weight: 2,380 kg	
			

Backhoe bucket and arm combination

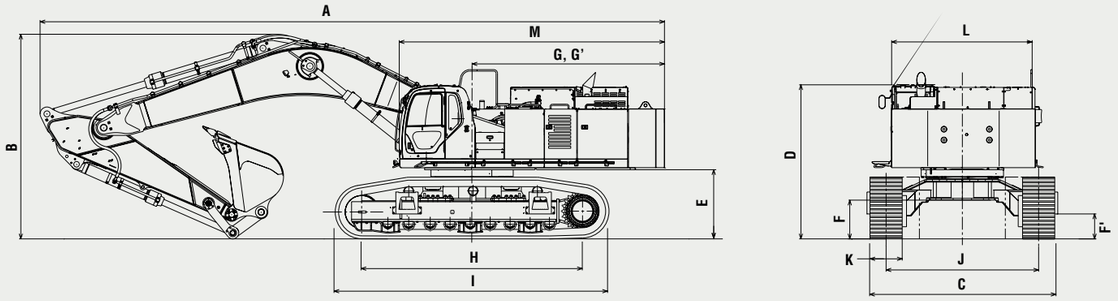
Use			Backhoe bucket			
Bucket capacity	ISO heaped	m^3	2.8	3.5	4.6	5.4
	Struck	m^3	2.1	3.1	4.1	4.7
Opening width	With side cutter	mm	1,680	2,000	2,500	2,500
	Without side cutter	mm	1,580	1,900	2,400	2,400
No. of bucket teeth			5	5	6	6
Weight		kg	2,380	2,610	3,160	3,570
Combinations	2.9 m short arm		○	○	◎	△
	3.6 m standard arm		○	◎	△	—
	4.4 m long arm		◎	△	—	—
	2.9 m short arm + 7.25 m short boom		—	—	—	◎

Dimensions

Unit: mm

Application				Short Arm	Standard Arm	Long Arm	Mass Excavator
Arm length				2.9 m	3.6 m	4.4 m	2.9 m
Boom length				8.25 m Standard Boom			7.25 m Short Boom
A	Overall length			14,600	14,530	14,480	13,590
B	Overall height (to top of boom)			4,830	4,760	5,160	4,850
C	Overall width	with 750 mm shoe	(Extended)	4,440			
			(Retracted)	3,500			
		with 900 mm shoe	(Extended)	4,450			
			(Retracted)	3,800			
D	Overall height (to top of cab)			3,590			
E	Ground clearance of rear end*			1,560			
F	Ground clearance*			850			
F'	Ground clearance*			580			
G	Tail swing radius			4,600			
G'	Distance from center of swing to rear end			4,480			
H	Tumbler distance			5,140			
I	Overall length of crawler			6,370			
J	Track gauge	with 750 mm shoe	(Extended)	3,550			
			(Retracted)	2,750			
		with 900 mm shoe	(Extended)	3,550			
			(Retracted)	2,900			
K	Shoe width			650/750/900			
L	Overall width of upperstructure			3,350			
M	Overall length of upperstructure			6,170			

*Without including height of shoe lug.



Operating Weight & Ground Pressure

Short Arm Application (In standard trim, with 8.25 m standard boom, 2.9 m short arm, and 4.6 m³ bucket)

		Triple grouser shoe (even height)		
Shoe width	mm	650	750	900
Overall width	mm	4,440	4,440	4,4440
Ground pressure	kPa {kgf/cm²}	107 {1.09}	93 {0.95}	79 {0.80}
Operating weight	kg	78,700	79,300	80,500

Standard Arm Application (In standard trim, with 8.25 m standard boom, 3.6 m standard arm, and 3.5 m³ bucket)

		Triple grouser shoe (even height)		
Shoe width	mm	650	750	900
Overall width	mm	4,440	4,440	4,450
Ground pressure	kPa {kgf/cm²}	106 {1.08}	92 {0.94}	78 {0.80}
Operating weight	kg	78,200	78,800	79,900

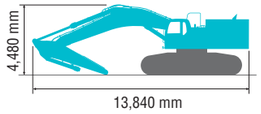
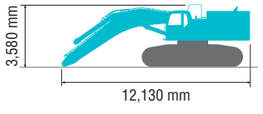
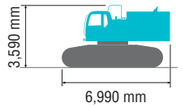
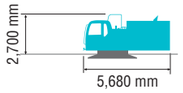
Long Arm Application (In standard trim, with 8.25 m standard boom, 4.4 m long arm, and 2.8 m³ bucket)

		Triple grouser shoe (even height)		
Shoe width	mm	650	750	900
Overall width	mm	4,440	4,440	4,450
Ground pressure	kPa {kgf/cm²}	106 {1.08}	93 {0.95}	78 {0.80}
Operating weight	kg	78,400	79,100	80,200

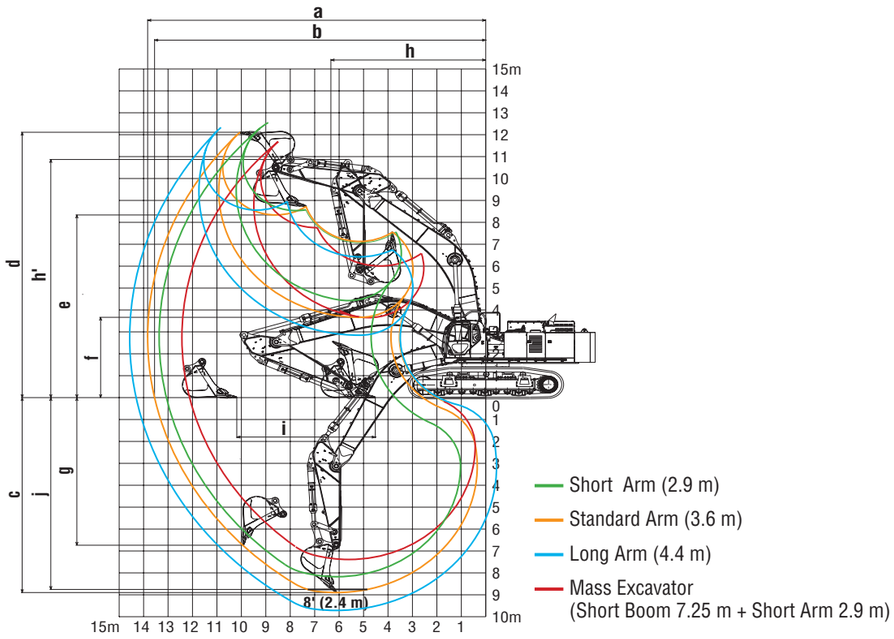
Mass Excavator Arm Application (In standard trim, with 7.25 m short boom, 2.9 m short arm, and 5.4 m³ bucket)

		Triple grouser shoe (even height)		
Shoe width	mm	650	750	900
Overall width	mm	4,440	4,440	4,450
Ground pressure	kPa {kgf/cm²}	107 {1.09}	93 {0.95}	79 {0.80}
Operating weight	kg	78,700	79,300	80,400

Transportation Plan

Configuration	Description	Total weight
Plan 1  Transportation width: 3,500 mm	Base machine without counterweight and bucket, with lower structure, 8.25 m standard boom and 3.6 m standard arm.	62,800 kg
Plan 2  Transportation width: 3,500 mm	Base machine without counterweight, bucket and arm, with lower structure and 8.25 m standard boom.	58,500 kg
Plan 3  Transportation width: 3,500 mm	Base machine with lower structure, without counterweight, bucket, arm and boom.	48,800 kg
Plan 4  Transportation width: 3,500 mm	Base machine with carbody, without counterweight, bucket, arm,boom and lower structure.	24,900 kg

*Counterweight: 13,400 kg



Working Ranges

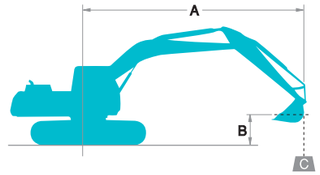
Unit: m

Application	Short Arm	Standard Arm	Long Arm	Mass Excavator
Arm length	2.9 m	3.6 m	4.4 m	2.9 m
Boom length	8.25 m Standard Boom			7.25 m Short Boom
a - Max. digging reach	13.48	13.83	14.56	12.45
b - Max. digging reach at ground level	13.19	13.55	14.29	12.13
c - Max. digging depth	8.3	8.9	9.7	7.38
d - Max. digging height	12.34	12.11	12.35	11.69
e - Max. dumping clearance	8.41	8.34	8.57	7.77
f - Min. dumping clearance	4.31	3.67	2.86	3.66
g - Max. vertical wall digging depth	5.16	6.74	7.48	4.42
h - Min. swing radius	5.74	6.34	6.34	5.47
h'- Height at min. swing radius	10.89	10.87	10.87	10.24
i - Horizontal digging stroke at ground level	4.36	5.67	6.80	4.39
j - Digging depth for 2.4 m (8') flat bottom	8.15	8.75	9.58	7.23
Bucket capacity SAE heaped m³	4.6	3.5	2.8	5.4

Digging Force (ISO 6015)

Unit: kN (kgf)

Application		Short Arm	Standard Arm	Long Arm	Mass Excavator
Arm length		2.9 m	3.6 m	4.4 m	2.9 m
Boom length		8.25 m Standard Boom			7.25 m Short Boom
Bucket digging force	kN (kgf)	432 {44,100}	403 {40,900}	403 {41,100}	432 {44,100}
Arm crowding force	kN (kgf)	351 {35,800}	311 {31,600}	272 {27,700}	351 {35,800}



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
• Max. discharge pressure: 36.0 MPa (367 kgf/cm²)

Short Arm Application

SK850LC — Boom: 8.25 m Arm: 2.9 m Bucket: 4.6 m³ ISO heaped 3,160 kg Shoe: 650 mm

A / B		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		Max. Reach		Radius
10.5 m	kg															*11,550	*11,550	9.07 m
9.0 m	kg															*11,250	*11,250	10.19 m
7.5 m	kg									*11,850	*11,850	*11,200	*11,200			*11,200	10,570	10.98 m
6.0 m	kg							*14,790	*14,790	*12,870	*12,870	*11,690	11,450			*11,290	9,340	11.52 m
4.5 m	kg					*21,870	*21,870	*16,900	*16,900	*14,120	*14,120	*12,400	11,010			*11,480	8,590	11.85 m
3.0 m	kg					*25,290	*25,290	*18,940	18,340	*15,380	13,710	*13,160	10,540	*11,710	8,200	*11,760	8,180	11.97 m
1.5 m	kg					*27,410	24,280	*20,520	17,320	*16,440	13,050	*13,820	10,130			*12,100	8,070	11.90 m
G. L.	kg					*28,130	23,620	*21,400	16,700	*17,110	12,590	*14,210	9,840			*12,490	8,270	11.63 m
-1.5 m	kg			*22,200	*22,200	*27,770	23,470	*21,510	16,430	*17,250	12,370	*14,160	9,710			*12,910	8,840	11.15 m
-3.0 m	kg	*22,670	*22,670	*32,630	*32,630	*26,450	23,680	*20,790	161,470	*16,670	12,390					*13,320	9,940	10.43 m
-4.5 m	kg	*33,200	*33,200	*30,680	*30,680	*23,980	*23,980	*18,980	16,820	*14,920	12,720					*13,630	11,980	9.40 m
-6.0 m	kg			*25,010	*25,010	*19,780	*19,780	*15,300	*15,300							*13,540	*13,540	7.96 m

Standard Arm Application

SK850LC — Boom: 8.25 m Arm: 3.6 m Bucket: 3.5 m³ ISO heaped 2,610 kg Shoe: 650 mm

A / B		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. Reach		Radius
9.0 m	kg													*10,280	*10,280	10.07 m
7.5 m	kg											*11,170	*11,170	*10,380	*10,380	10.87 m
6.0 m	kg									*12,770	*12,770	*11,700	*11,700	*10,760	10,060	11.42 m
4.5 m	kg					*21,290	*21,290	*16,670	*16,670	*14,060	*14,060	*12,450	11,390	*11,410	9,210	11.75 m
3.0 m	kg					*24,940	*24,940	*18,820	18,790	*15,390	14,090	*13,260	10,890	*11.960	8,730	11.87 m
1.5 m	kg					*27,400	24,840	*20,550	17,730	*16,530	13,400	*13,980	10,450	*12,420	8,560	11.80 m
G. L.	kg			*20,070	*20,070	*28,460	24,050	*21,600	17,040	*17,310	12,900	*14,460	10,130	*12,960	8,700	11.53 m
-1.5 m	kg	*18,170	*18,170	*27,080	*27,080	*28,360	23,790	*21,890	16,710	*17,580	12,630	*14,530	9,960	*13,590	9,210	11.04 m
-3.0 m	kg	*25,830	*25,830	*35,680	*35,680	*27,250	23,890	*21,350	16,680	*17,170	12,590			*14,290	10,260	10.31 m
-4.5 m	kg	*34,370	*34,370	*32,370	*32,370	*25,030	24,310	*19,790	16,940	*15,740	12,830			*15,040	12,270	9.28 m
-6.0 m	kg	*35,580	*35,580	*27,020	*27,020	*21,200	*21,200	*16,600	*16,600					*15,700	*15,700	7.81 m

Long Arm Application

SK850LC — Boom: 8.25 m Arm: 4.4 m Bucket: 2.8 m³ ISO heaped 2,380 kg Shoe: 650 mm

A / B		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		Max. Reach		Radius
9.0 m	kg											*9,760	*9,760			*8,080	*8,080	10.95 m
7.5 m	kg											*10,040	*10,040			*8,100	*8,100	11.69 m
6.0 m	kg									*11,540	*11,540	*10,670	*10,670	*9,500	9,260	*8,320	*8,320	12.20 m
4.5 m	kg							*15,100	*15,100	*12,900	*12,900	*11,500	*11,500	*10,600	8,950	*8,740	8,210	12.51 m
3.0 m	kg			*26,910	*26,910	*22,800	*22,800	*17,410	*17,410	*14,350	14,290	*12,420	10,990	*11,140	8,600	*9,400	7,780	12.62 m
1.5 m	kg			*19,100	*19,100	*25,870	25,290	*19,420	17,950	*15,670	13,490	*13,280	10,470	*11,650	8,280	*10,350	7,610	12.56 m
G. L.	kg			*20,730	*20,730	*27,650	24,120	*20,830	17,070	*16,670	12,880	*13,940	10,050	*12,010	8,030	*11,670	7,680	12.30 m
-1.5 m	kg	*16,120	*16,210	*25,320	*25,320	*28,210	23,570	*21,530	16,560	*17,230	12,480	*14,280	9,790			*12,240	8,050	11.85 m
-3.0 m	kg	*22,270	*22,270	*31,750	*31,750	*27,710	23,460	*21,450	16,370	*17,200	12,320	*14,100	9,700			*12,900	8,820	11.17 m
-4.5 m	kg	*29,150	*29,150	*34,720	*34,720	*26,150	23,700	*20,460	16,480	*16,370	12,410					*13,630	10,230	10.23 m
-6.0 m	kg	*37,520	*37,520	*30,320	*30,320	*23,230	*23,230	*18,230	16,900							*14,400	12,960	8.92 m
-7.5 m	kg			*23,500	*23,500	*18,170	*18,170									*14,990	*14,990	7.06 m

Mass Excavator Application

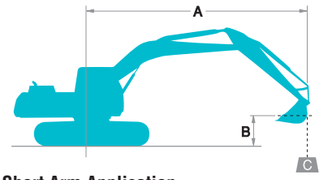
SK850LC — Boom: 7.25 m Arm: 2.9 m Bucket: 5.4 m³ ISO heaped 3,570 kg Shoe: 650 mm

A / B		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. Reach		Radius
9.0 m	kg													*11,770	*11,770	8.93 m
7.5 m	kg									*13,290	*13,290			*11,540	*11,540	9.83 m
6.0 m	kg							*15,580	*15,580	*14,040	*14,040			*11,690	11,540	10.43 m
4.5 m	kg			*30,130	*30,130	*21,760	*21,760	*17,600	*17,600	*15,160	14,980	*13,660	11,220	*12,190	10,530	10.79 m
3.0 m	kg					*25,450	*25,450	*19,690	19,400	*16,370	14,310	*14,260	10,870	*13,050	10,020	10.93 m
1.5 m	kg					*28,110	26,150	*21,400	18,410	*17,400	13,720	*14,750	10,550	*14,230	9,910	10.85 m
G. L.	kg			*27,360	*27,360	*29,310	25,210	*22,370	17,740	*17,980	13,290	*14,840	10,340	*14,690	10,220	10.55 m
-1.5 m	kg	*21,140	*21,140	*36,280	*36,280	*29,060	24,870	*22,390	17,420	*17,830	13,100			*15,190	11,080	10.02 m
-3.0 m	kg	*31,710	*31,710	*36,250	*36,250	*27,320	25,000	*21,180	17,460	*16,450	13,200			*15,640	12,790	9.20 m
-4.5 m	kg	*41,720	*41,720	*30,930	*30,930	*23,680	*23,680	*18,040	17,910					*15,820	*15,820	8.02 m
-6.0 m	kg			*22,110	*22,110	*16,500	*16,500							*14,900	*14,900	6.25 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 defined as lift point.
4. The above lifting capacities are in compliance with 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 machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

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
• Max. discharge pressure: 36.0 MPa (367 kgf/cm²)

Short Arm Application

SK850LC	Boom: 8.25 m Arm: 2.9 m Bucket: 4.6 m³ ISO heaped 3,160 kg Shoe: 750 mm																
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		Max. Reach		Radius
10.5 m kg															*11,550	*11,550	9.07 m
9.0 m kg															*11,250	*11,250	10.19 m
7.5 m kg									*11,850	*11,850	*11,200	*11,200			*11,200	10,670	10.98 m
6.0 m kg							*14,790	*14,790	*12,870	*12,870	*11,690	11,560			*11,290	9,440	11.52 m
4.5 m kg					*21,870	*21,870	*16,900	*16,900	*14,120	*14,120	*12,400	11,120			*11,480	8,690	11.85 m
3.0 m kg					*25,290	*25,290	*18,940	18,510	*15,380	13,850	*13,160	10,650	*11,710	8,290	*11,760	8,280	11.97 m
1.5 m kg					*27,410	24,510	*20,520	17,490	*16,440	13,190	*13,820	10,240			*12,100	8,170	11.90 m
G. L. kg					*28,130	23,850	*21,400	16,870	*17,110	12,730	*14,210	9,950			*12,490	8,370	11.63 m
-1.5 m kg			*22,200	*22,200	*27,770	23,700	*21,510	16,600	*17,250	12,500	*14,160	9,820			*12,910	8,940	11.15 m
-3.0 m kg	*22,670	*22,670	*32,630	*32,630	*26,450	23,910	*20,790	16,640	*16,670	12,520					*13,320	10,050	10.43 m
-4.5 m kg	*33,200	*33,200	*30,680	*30,680	*23,980	*23,980	*18,980	16,980	*14,920	12,850					*13,630	12,100	9.40 m
-6.0 m kg			*25,010	*25,010	*19,780	*19,780	*15,300	*15,300							*13,540	*13,540	7.96 m

Standard Arm Application

SK850LC	Boom: 8.25 m Arm: 3.6 m Bucket: 3.5 m³ ISO heaped 2,610 kg Shoe: 750 mm														
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. Reach		Radius
9.0 m kg													*10,280	*10,280	10.07 m
7.5 m kg											*11,170	*11,170	*10,380	10,380	10.87 m
6.0 m kg									*12,770	*12,770	*11,700	*11,700	*10,760	9,940	11.42 m
4.5 m kg					*21,290	*21,290	*16,670	*16,670	*14,060	*14,060	*12,450	11,260	*11,410	9,100	11.75 m
3.0 m kg					*24,940	*24,940	*18,820	18,590	*15,390	13,930	*13,260	10,760	*11,960	8,620	11.87 m
1.5 m kg					*27,400	24,570	*20,550	17,530	*16,540	13,240	*13,980	10,320	*12,420	8,450	11.80 m
G. L. kg			*20,080	*20,080	*28,460	23,780	*21,600	16,850	*17,310	12,750	*14,460	10,000	*12,960	8,580	11.53 m
-1.5 m kg	*18,170	*18,170	*27,080	*27,080	*28,360	23,520	*21,890	16,510	*17,580	12,470	*14,530	9,830	*13,590	9,090	11.04 m
-3.0 m kg	*25,840	*25,840	*35,680	*35,680	*27,250	23,620	*21,350	16,480	*17,170	12,440			*14,290	10,130	10.31 m
-4.5 m kg	*34,380	*34,380	*32,370	*32,370	*25,020	24,040	*19,790	16,740	*15,730	12,680			*15,040	12,120	9.28 m
-6.0 m kg	*35,580	*35,580	*27,010	*27,010	*21,200	*21,200	*16,600	*16,600					*15,700	*15,700	7.81 m

Long Arm Application

SK850LC	Boom: 8.25 m Arm: 4.4 m Bucket: 2.8 m³ ISO heaped 2,380kg Shoe:750 mm																
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		Max. Reach		Radius
9.0 m kg											*9,760	*9,760			*8,080	*8,080	10.95 m
7.5 m kg											*10,040	*10,040			*8,100	*8,100	11.69 m
6.0 m kg									*11,540	*11,540	*10,670	*10,670	*9,500	9,360	*8,320	*8,320	12.20 m
4.5 m kg							*15,100	*15,100	*12,900	*12,900	*11,500	*11,500	*10,600	9,040	*8,740	8,300	12.51 m
3.0 m kg			*26,910	*26,910	*22,800	*22,800	*17,410	*17,410	*14,350	*14,350	*12,420	11,100	*11,140	8,700	*9,400	7,870	12.62 m
1.5 m kg			*19,100	*19,100	*25,870	25,530	*19,420	18,120	*15,670	13,620	*13,280	10,580	*11,650	8,370	*10,350	7,700	12.56 m
G. L. kg			*20,730	*20,730	*27,650	24,350	*20,830	17,240	*16,670	13,010	*13,940	10,160	*12,010	8,120	*11,670	7,770	12.30 m
-1.5 m kg	*16,120	*16,210	*25,320	*25,320	*28,210	23,800	*21,530	16,730	*17,230	12,620	*14,280	9,900			*12,240	8,140	11.85 m
-3.0 m kg	*22,270	*22,270	*31,750	*31,750	*27,710	23,690	*21,450	16,540	*17,200	12,450	*14,100	9,810			*12,900	8,920	11.17 m
-4.5 m kg	*29,150	*29,150	*34,720	*34,720	*26,150	23,930	*20,460	16,650	*16,370	12,540					*13,630	10,350	10.23 m
-6.0 m kg	*37,520	*37,520	*30,320	*30,320	*23,230	*23,230	*18,230	17,070							*14,400	13,100	8.92 m
-7.5 m kg			*23,500	*23,500	*18,170	*18,170									*14,990	*14,990	7.06 m

Mass Excavator Application

SK850LC	Boom: 7.25 m Arm: 2.9 m Bucket: 5.4 m³ ISO heaped 3,570 kg Shoe: 750 mm														
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. Reach		Radius
9.0 m kg													*11,770	*11,770	8.93 m
7.5 m kg									*13,290	*13,290			*11,540	*11,540	9.83 m
6.0 m kg							*15,580	*15,580	*14,040	*14,040			*11,690	11,650	10.43 m
4.5 m kg			*30,130	*30,130	*21,760	*21,760	*17,600	*17,600	*15,160	15,120	*13,660	11,330	*12,190	10,640	10.79 m
3.0 m kg					*25,450	*25,450	*19,690	19,570	*16,370	14,450	*14,260	10,980	*13,050	10,120	10.93 m
1.5 m kg					*28,110	26,380	*21,400	18,580	*17,400	13,850	*14,750	10,660	*14,230	10,010	10.85 m
G. L. kg			*27,360	*27,360	*29,310	25,440	*22,370	17,910	*17,980	13,430	*14,840	10,450	*14,690	10,330	10.55 m
1.5 m kg	*21,140	*21,140	*36,280	*36,280	*29,060	25,100	*22,390	17,590	*17,830	13,230			*15,190	11,190	10.02 m
3.0 m kg	*31,710	*31,710	*36,250	*36,250	*27,320	25,230	*21,180	17,630	*16,450	13,330			*15,640	12,920	9.20 m
4.5 m kg	*41,720	*41,720	*30,930	*30,930	*23,680	*23,680	*18,040	*18,040					*15,820	*15,820	8.02 m
6.0 m kg			*22,110	*22,110	*16,500	*16,500							*14,900	*14,900	6.25 m

Short Arm Application

SK850LC	Boom: 8.25 m Arm: 2.9 m Bucket: 4.6 m³ ISO heaped 3,160 kg Shoe: 900 mm																
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		Max. Reach		Radius
10.5 m kg															*11,550	*11,550	9.07 m
9.0 m kg															*11,250	*11,250	10.19 m
7.5 m kg									*11,850	*11,850	*11,200	*11,200			*11,200	10,850	10.98 m
6.0 m kg							*14,790	*14,790	*12,870	*12,870	*11,690	*11,690			*11,290	9,610	11.52 m
4.5 m kg					*21,870	*21,870	*16,900	*16,900	*14,120	*14,120	*12,400	11,300			*11,480	8,850	11.85 m
3.0 m kg					*25,290	*25,290	*18,940	18,800	*15,380	14,070	*13,160	10,830	*11,710	8,450	*11,760	8,440	11.97 m
1.5 m kg					*27,410	24,910	*20,520	17,780	*16,440	13,410	*13,820	10,420			*12,100	8,330	11.90 m
G. L. kg					*28,130	24,240	*21,400	17,150	*17,110	12,950	*14,210	10,130			*12,490	8,530	11.63 m
-1.5 m kg			*22,200	*22,200	*27,770	24,090	*21,510	16,880	*17,250	12,730	*14,160	10,010			*12,910	9,110	11.15 m
-3.0 m kg	*22,670	*22,670	*32,630	*32,630	*26,450	24,300	*20,790	16,920	*16,670	12,750					*13,320	10,240	10.43 m
-4.5 m kg	*33,200	*33,200	*30,680	*30,680	*23,980	*23,980	*18,980	17,270	*14,920	13,080					*13,630	12,320	9.40 m
-6.0 m kg			*25,010	*25,010	*19,780	*19,780	*15,300	*15,300							*13,540	*13,540	7.96 m

Standard Arm Application

SK850LC	Boom: 8.25 m Arm: 3.6 m Bucket: 3.5 m³ ISO heaped 2,610 kg Shoe: 900 mm														
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. Reach		Radius
9.0 m kg													*10,280	*10,280	10.07 m
7.5 m kg											*11,170	*11,170	*10,380	10,380	10.87 m
6.0 m kg									*12,770	*12,770	*11,700	*11,700	*10,760	10,320	11.42 m
4.5 m kg					*21,290	*21,290	*16,670	*16,670	*14,060	*14,060	*12,450	11,690	*11,410	9,470	11.75 m
3.0 m kg					*24,940	*24,940	*18,820	*18,820	*15,390	14,450	*13,260	11,190	*11,960	8,990	11.87 m
1.5 m kg					*27,400	25,470	*20,550	18,180	*16,530	13,760	*13,980	10,750	*12,420	8,820	11.80 m
G. L. kg			*20,700	*20,700	*28,460	24,670	*21,600	17,500	*17,310	13,260	*14,460	10,420	*12,960	8,960	11.53 m
1.5 m kg	*18,170	*18,170	*27,080	*27,080	*28,360	24,410	*21,890	17,160	*17,580	12,990	*14,530	10,260	*13,590	9,490	11.04 m
3.0 m kg	*25,830	*25,830	*35,680	*35,680	*27,250	24,520	*21,350	17,130	*17,170	12,950			*14,290	10,560	10.31 m
4.5 m kg	*34,370	*34,370	*32,370	*32,370	*25,030	24,940	*19,790	17,390	*15,740	13,190			*15,040	12,610	9.28 m
6.0 m kg	*35,580	*35,580	*27,020	*27,020	*21,200	*21,200	*16,600	*16,600					*15,700	*15,700	7.81 m

Long Arm Application

SK850LC	Boom: 8.25 m Arm: 4.4 m Bucket: 2.8 m³ ISO heaped 2,380 kg Shoe:900 mm																
A / B	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		Max. Reach		Radius
9.0 m kg											*9,760	*9,760			*8,080	*8,080	10.95 m
7.5 m kg											*10,040	*10,040			*8,100	*8,100	11.69 m
6.0 m kg									*11,540	*11,540	*10,670	*10,670	*9,500	*9,500	*8,320	*8,320	12.20 m
4.5 m kg							*15,100	*15,100	*12,900	*12,900	*11,500	*11,500	*10,600	9,200	*8,740	8,450	12.51 m
3.0 m kg			*26,910	*26,910	*22,800	*22,800	*17,410	*17,410	*14,350	*14,350	*12,420	11,280	*11,140	8,860	*9,400	8,020	12.62 m
1.5 m kg			*19,100	*19,100	*25,870	*25,870	*19,420	18,410	*15,670	13,850	*13,280	1,760	*11,650	8,530	*10,350	7,850	12.56 m
G. L. kg			*20,730	*20,730	*27,650	24,740	*20,830	17,530	*16,670	13,230	*13,940	1,350	*12,010	8,280	*11,670	7,930	12.30 m
-1.5 m kg	*16,120	*16,210	*25,320	*25,320	*28,210	24,190	*21,530	17,020	*17,230	12,840	*14,280	10,080			*12,240	8,310	11.85 m
-3.0 m kg	*22,270	*22,270	*31,750	*31,750	*27,710	24,080	*21,450	16,830	*17,200	12,680	*14,100	10,000			*12,900	9,090	11.17 m
-4.5 m kg	*29,150	*29,150	*34,720	*34,720	*26,150	24,320	*20,460	16,940	*16,370	12,760					*13,630	10,540	10.23 m
-6.0 m kg	*37,520	*37,520	*30,320	*30,320	*23,230	*23,230	*18,230	17,350							*14,400	13,320	8.92 m
-7.5 m kg			*23,500	*23,500	*18,170	*18,170									*14,990	*14,990	7.06 m

Mass Excavator Application

SK850LC	Boom: 7.25 m Arm: 2.9 m Bucket: 5.4 m³ ISO heaped 3,570 kg Shoe: 900 mm														
A / B	3.0 m		4.5 m		6.0 mm		7.5 m		9.0 m		10.5 m		Max. Reach		Radius
9.0 m kg													*11,770	*11,770	8.93 m
7.5 m kg									*13,290	*13,290			*11,540	*11,540	9.83 m
6.0 m kg							*15,580	*15,580	*14,040	*14,040			*11,690	*11,690	10.43 m
4.5 m kg			*30,130	*30,130	*21,760	*21,760	*17,600	*17,600	*15,160	*15,160	*13,660	11,520	*12,190	10,820	10.79 m
3.0 m kg					*25,450	*25,450	*19,690	*19,690	*16,370	14,670	*14,260	11,170	*13,050	10,300	10.93 m
1.5 m kg					*28,110	26,770	*21,400	18,870	*17,400	14,080	*14,750	10,850	*14,230	10,190	10.85 m
G. L. kg			*27,360	*27,360	*29,310	25,840	*22,370	18,190	*17,980	13,650	*14,840	10,630	*14,690	10,520	10.55 m
-1.5 m kg	*21,140	*21,140	*36,280	*36,280	*29,060	25,500	*22,390	17,880	*17,830	13,460			*15,190	11,390	10.02 m
-3.0 m kg	*31,710	*31,710	*36,250	*36,250	*27,320	25,620	*21,180	17,910	*16,450	13,560			*15,640	13,140	9.20 m
-4.5 m kg	*41,720	*41,720	*30,930	*30,930	*23,680	*23,680	*18,040	*18,040					*15,820	*15,820	8.02 m
-6.0 m kg			*22,110	*22,110	*16,500	*16,500							*14,900	*14,900	6.25 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 defined as lift point.
4. The above lifting capacities are in compliance with 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 machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.