

Hydraulic Excavators

SK500_{LC}

- Bucket Capacity:
1.9 m³ ISO heaped
- Engine Power:
100 HP/1,850 rpm (ISO14396)
- Operating Weight:
48,300 kg – 50,300 kg

SK500_{LC}

DRIVEN BY
PASSION

STANDARD EQUIPMENT

ENGINE

- Engine, HINO P11C, Diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Batteries (2 12V - 60Ah)
- Starting motor (24V - 6 kW), 60 amp alternator
- Removable clean-out screen for radiator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner

CONTROL

- Working mode selector (H-mode and S-mode)
- Power Boost
- Heavy lift

SWING SYSTEM & TRAVEL SYSTEM

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

HYDRAULIC

- Arm regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Tropical cooling package

MIRRORS & LIGHTS

- Two rearview mirrors
- Three front working lights
- Swing flashers

CAB & CONTROL

- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Integrated left-right slide-type control box
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- 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
- Travel alarm
- Radio, AM/FM Stereo with speaker
- Refueling pump

OPTIONAL EQUIPMENT

- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Front-guard protective structures (May interfere with bucket action)
- Two cab working lights
- Additional track guide
- Additional hydraulic circuit
- Head guard

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.

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The Power Wave of Change

When we set out to design our new hydraulic excavators, we kept our eyes on the big picture. Of course we wanted machines with greater digging capacity. But they also had to be fuel-efficient and economical, while imposing less of a burden on the local and global environments. Applying our advanced technologies, we developed SK series excavator that beautifully balances all the demands of today's construction industry.

Lean and efficient with capacity to spare, these sleek powerhouses bring a whole new style to the worksite while setting new standards for environmental responsibility.





Pursuing the “Three E’s” The Perfection of Next-Generation, Network Performance

Enhancement

Greater Performance Capacity

- Hydraulic circuitry minimizes pressure loss
- High-efficiency, electronically controlled Common Rail 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


- Noise reduction measures (with improvement of the sound quality) minimize noise and vibration

Efficient Performance!

Amazing Productivity with a 18 % Increase in Work Volume and “Top-Class” Cost-Performance



↑ Work Volume*
18 % increase in work volume using the same amount of fuel. (H-Mode)



↓ Fuel Consumption*
18 % decrease in fuel consumption even when performing more work volume. (S-Mode)

“Top-Class” Powerful Digging

Max. arm crowding force: **203 kN** {20.7 tf}

Max. arm crowding force with power boost: **222 kN** {22.7 tf}

Max. bucket digging force: **267 kN** {27.2 tf} **↑**

Max. bucket digging force with power boost: **292 kN** {29.8 tf} **↑**

Powerful Travel

Drawbar pulling force: **417 kN** {40.8 tf}

Greater Swing Power, Shorter Cycle Times

Swing torque: **174.3 kN·m**
 {128.557 lbf·ft}

Swing speed: **7.8 min⁻¹**

Significant Extension of Continuous Working Hours

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



Light Lever Operation

It takes 10% less effort to move the control levers, so that operators can work longer hours with less fatigue.

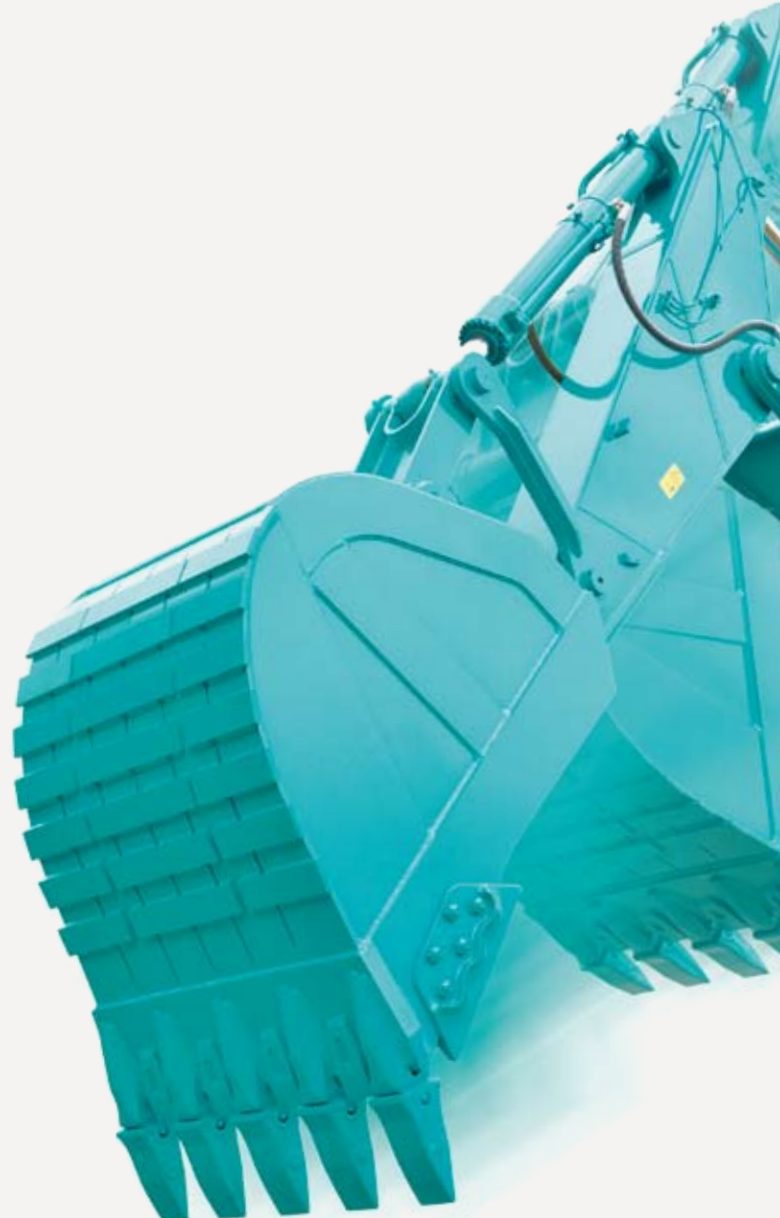
**10 %
Less**



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.

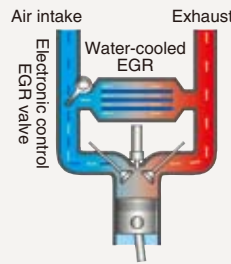


*The value shows results from actual measurements taken by KOBELCO.



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 medium/low-speed torque. The result is a highly fuel-efficient engine that greatly reduces emissions of PM (particulate matter) and NOx into the atmosphere.



3E Technology Total Tuning Through Advanced ITCS Control

The engine control is governed by 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** For heavy duty when a higher performance level is required.
H-Mode
- S** For normal operations with lower fuel consumption.
S-Mode

N&B (crusher and breaker)

The operator selects the desired mode from inside the cab, and the selector valve automatically configures the machine accordingly.

Attachment Mode Selector Switch

There's a choice of three different attachment functions, 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.



Seamless, Smooth Combined Operations

The SK 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.

- Electronic Active Control System
- Arm regeneration system
- Boom lowering system
- Variable swing priority system
- Swing rebound prevention system

The Value and Quality of Sturdy Construction!

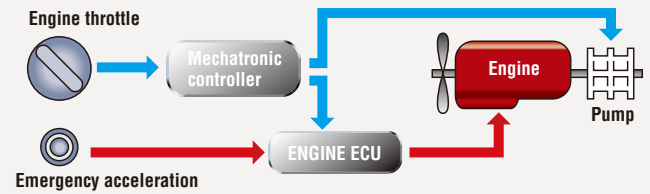
Stable Attachment Strength

Forged and cast steel components are used throughout. The standard arm and boom also meet specifications that were classified as "reinforced" on previous KOBELCO models to ensure reliable strength.

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



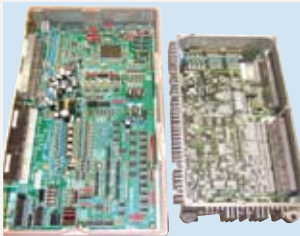
If unexpected trouble is experienced with the ITCS mechatronic control system, the machine can still be operated using the emergency acceleration system. Digging modes are also automatically relayed to an emergency system so that digging can continue temporarily until a service person arrives to repair the primary system.



HD bucket (optional)

High Durability That Retains Machine Value Five and Ten Years in the Future

- New operator's seat covered in durable, material
- High-quality urethane paint
- Easily repaired bolted hand rails



New MCU

Conventional MCU

Newly designed Micro Computer Unit

- Vertical alignment and sealed cover gives better protection from water and dust
- Reliable fixture to base plate

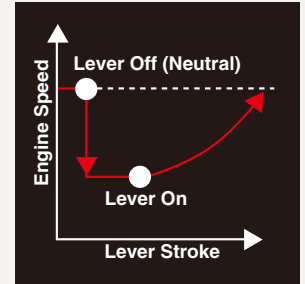
Countermeasures Against Electrical System Failure

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

Designed for the Environment and the Future!

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. The proportional Deceleration recovery speed smoothly.



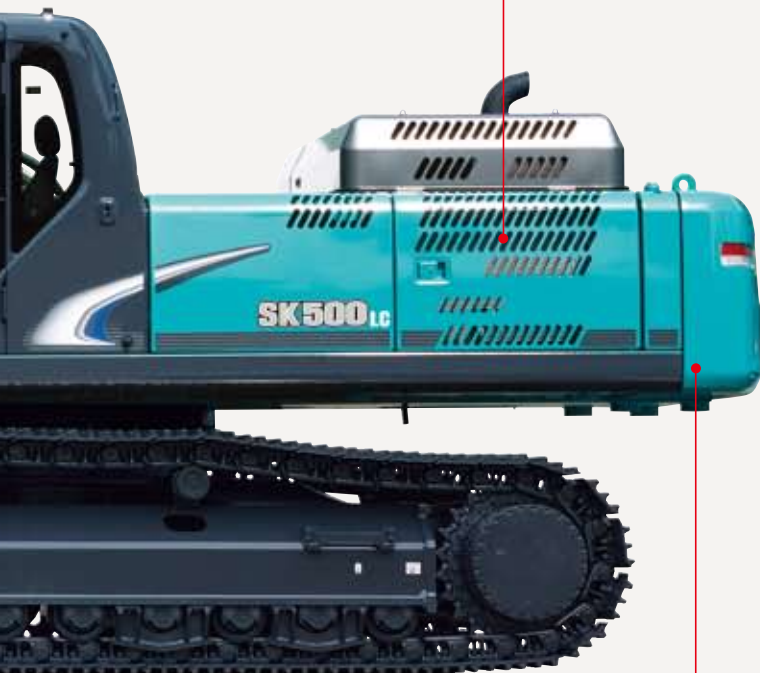
Low Noise Level and Mild Sound Quality

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 SK series meets all requirements cited in latest standards.

Meets EMC (Electromagnetic Compatibility) Standards in Europe.

Measures have been taken to ensure that the SK machines do not cause electro-magnetic interference.

Ventilation Openings for tropical temperatures



Heavy Duty Upper Carbody and Side Frames

The structure of the lower portion of the upper frame has been reassessed and the undercover area has been minimized for further strength.



“On the Ground” Maintenance!

Comfortable “On the Ground” Maintenance

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

Access through the right side cover

The fuel filter with built-in water separator functions in two ways by removing large contaminants and separating out water.



Engine oil filter Two large fuel filters (built-in water separator)

Quick Oil Drain Valves for Quick Maintenance



Quick drain valve

1 A quick drain valve, which requires no tools, is provided as standard equipment.



Pump drain



Fuel drain valve

2 To facilitate fuel tank cleaning, the fuel drain valve fitted with a flange on the bottom.

More Efficient Maintenance Inside the Cab



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



5 Easy-access fuse box differentiated fuses, easy to locate malfunctions.



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



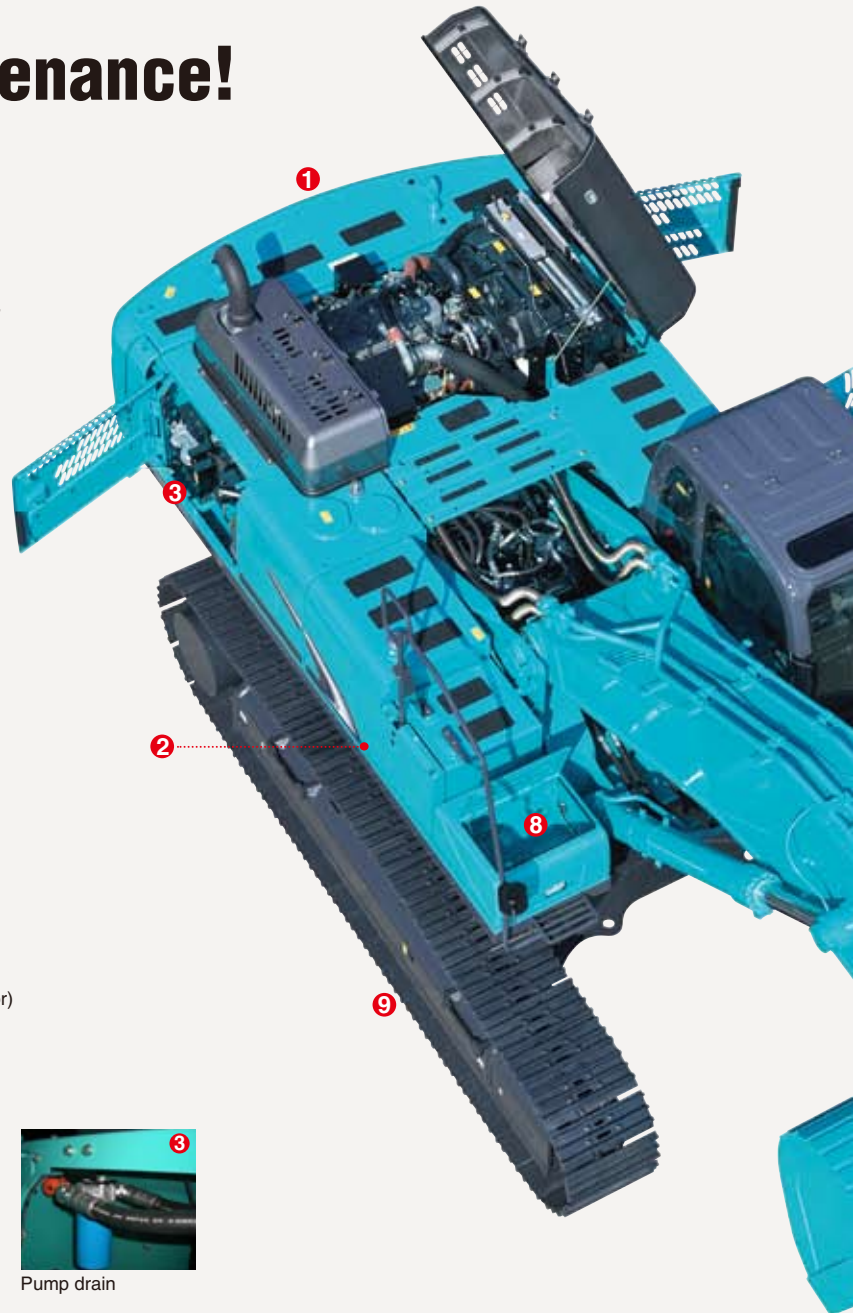
7 Hour meter can be checked while standing on the ground.



8 Large-capacity tool box can hold up to three pails.



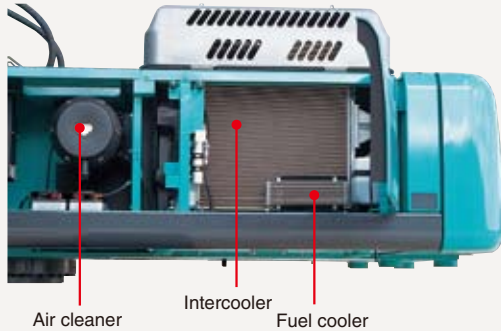
9 Special crawler frame design is easily cleaned of mud.



Drain Detachable type

Access through the left side cover

Radiator and oil cooler are aligned side by side, with intercooler positioned in front. This more effective layout gives outstanding cooling results.



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

Double-Element Air Cleaner as Standard



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

● Air cleaner (double element)

High-Grade Fuel Filter with Superior Filtration Performance



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

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.

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.

☑ 充電不良	☑ Lichtmaschine defekt	☑ CHARGE ERROR	☑ CHARGE ERROR
Chinese	German	English	English (US)
☑ ERREUR DE CHARGE	☑ PENGISIAN BATT. RUSAK	☑	☑ ERRORE DI CARICA
French	Indonesian	ISO	Italian
☑ チャージ	☑ KESALAHAN CAS	☑ ചൂടുകുറവ്	☑ ERRO DE CARGA
Japanese	Malay	Myanmar(Burmese)	Portuguese
☑ ERROR EN CARGA	☑ தவறாக திணிததல்	☑ ၂၅၂၅၂၅	☑ Sac Điện Bị Lỗi
Spanish	Tamil	Thai	Vietnamese

Designed from the Operator's Point of View

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.
- Tempered glass windows.

Wide-Access Cab Ensures Smooth Entry and Exit

The left control box and safety lock lever together rise through 54° to give wider cab access and easier entry and exit.



Creating a Comfortable Operating Environment

Plenty of Foot Room

Front-to-back room in the cab is a comfortable 750 mm. Big travel pedal for operator comfort.

Low 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.



- Seat can be reclined to almost horizontal position

Newly Designed Information Display Prioritizes Visual Recognition

The analog gauge provides information that's easy to read regardless of the operating environment. Big screen to display information with an attached visor to further enhance visibility.



Imagining Possible Scenarios and Preparing in Advance

Safety Features That Take Various Scenarios into Consideration



- Firewall separates the pump compartment from the engine



- Hammer for emergency exit



- Swing flashers/rear working lights

- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment

Other Features



- Double slide and suspension seat



- Powerful automatic air conditioner



- Spacious luggage tray



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



- Large cup holder

- Interior design and materials create an elegant feel



- Two cab working lights (Optional)



- Adjustable suspension seat

Specifications



Engine

Model	HINO P11C
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders:	6
Bore and stroke:	122 mm × 150 mm
Displacement:	10.520 L
Rated power output:	000 HP/1,850 rpm (ISO14396)
Max. torque:	1,400 N·m/1,400 min ⁻¹ {rpm} (ISO14396) 1,359 N·m/1,400 min ⁻¹ {rpm} (ISO9249)



Hydraulic System

Pump	
Type:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 × 370 L/min, 1 × 30 L/min
Relief valve setting	
Boom, arm and bucket:	31.4 MPa {320 kgf/cm ² }
Power Boost:	34.3 MPa {350 kgf/cm ² }
Travel circuit:	34.3 MPa {350 kgf/cm ² }
Swing circuit:	25.0 MPa {255 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 motors:	2 × axial-piston motors
Brake:	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake:	Hydraulic disc brake
Swing speed:	7.8 min ⁻¹ {rpm}
Tail swing radius:	3,670 mm
Min. front swing radius:	5,140 mm



Attachments

Backhoe bucket and arm combination

Use	Backhoe bucket			
		Heavy digging	ME	
Bucket capacity	ISO heaped m ³	1.9	2.1	3.4
	Struck m ³	1.4	1.5	2.5
Opening width	With side cutter mm	1,590	1,660	1,990
	Without side cutter mm	1,510	1,580	1,870
No. of teeth		4	5	6
Bucket weight	kg	2,150	2,270	2,190
Combination	2.4 m super short arm	—	—	○
	3.0 m short arm	×	○	×
	3.45 m standard arm	○	×	×

○ Recommended × Not recommended



Travel System

Travel motors:	2 × axial-piston, two-step motors
Travel brakes:	Hydraulic brake per motor
Parking brakes:	Oil disc brake per motor
Travel shoes:	50 each side
Travel speed:	5.4/3.4 km/h
Drawbar pulling force:	417 kN {40.8 tf} (ISO 7464)
Gradeability:	70 % {35°}
Ground clearance:	510 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:	170 mm × 1,590 mm
Arm cylinder:	190 mm × 1,970 mm
Bucket cylinder:	160 mm × 1,410 mm



Refilling Capacities & Lubrications

Fuel tank:	650 L
Cooling system:	41 L
Engine oil:	50 L
Travel reduction gear:	2 × 15 L
Swing reduction gear:	2 × 7 L
Hydraulic oil tank:	555 L tank oil level 300 L hydraulic system



Working Ranges

Unit: m

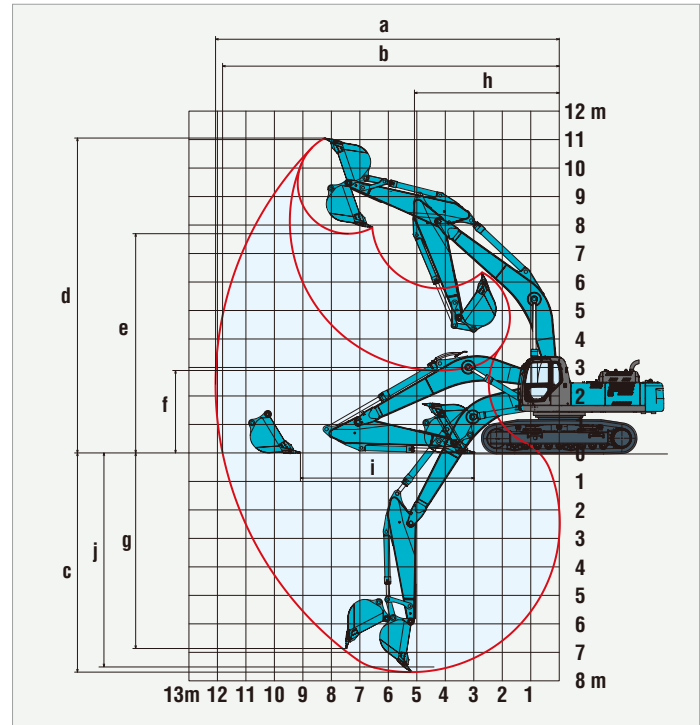
Range	Boom		7.0 m	
	Arm	6.0 m	Short	Standard
		ME	3.0 m	3.45 m
		2.4 m		
a- Max. digging reach		10.88	11.77	12.07
b- Max. digging reach at ground level		10.63	11.54	11.84
c- Max. digging depth		6.48	7.36	7.81
d- Max. digging height		10.49	11.16	10.93
e- Max. dumping clearance		6.91	7.72	7.58
f- Min. dumping clearance		3.11	3.22	2.77
g- Max. vertical wall digging depth		4.00	6.68	7.12
h- Min. swing radius		4.75	5.27	5.14
i- Horizontal digging stroke at ground level		3.59	5.21	6.10
j- Digging depth for 2.4 m (8') flat bottom		6.31	7.21	7.67
Bucket capacity SAE heaped m ³		3.4	2.1	1.9

Digging Force (ISO 6015)

Unit: kN (tf)

Arm length	ME		Standard	
	2.4 m	3.0 m	3.0 m	3.45 m
Bucket digging force	279 (28.0)	266 (27.1)	291 (29.7)*	292 (29.8)*
Arm crowding force	247 (25.2)	270 (27.5)*	223 (22.8)	203 (20.7)
			244 (24.9)*	222 (22.7)*

*Power Boost engaged.



— Standard Arm



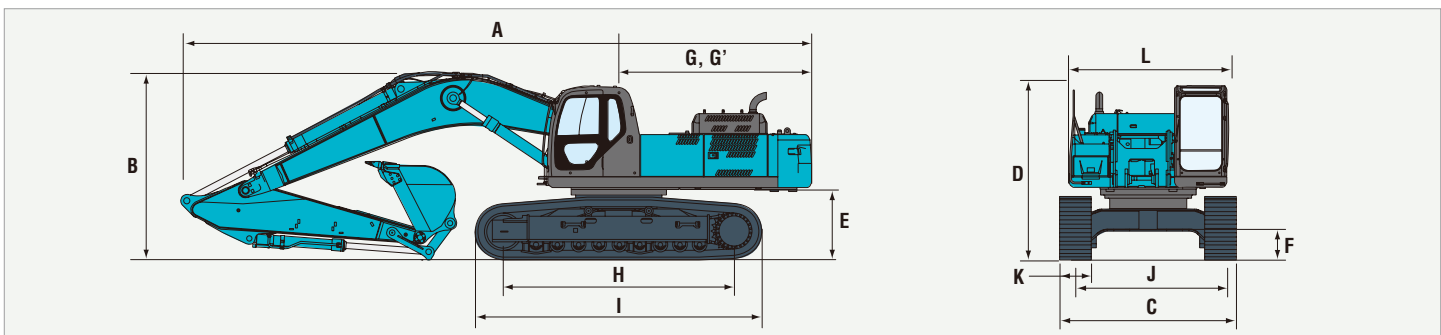
Dimensions

Arm length	Boom		7.0 m	
	ME	Short	Standard	
	2.4 m	3.0 m	3.45 m	
A Overall length	11,620	12,080	12,030	
B Overall height (to top of boom)	4,260	3,800	3,570	
C Overall width (600 mm shoes)	3,350/3,550/3,650			
D Overall height (to top of cab)	3,310			
E Ground clearance of rear end*	1,340			

Unit: mm

F Ground clearance*	510
G Tail swing radius	3,670
G' Distance from center of swing to rear end	3,670
H Tumbler distance	4,400
I Overall length of crawler	5,450
J Track gauge	2,750
K Shoe width	600/800/900
L Overall width of upperstructure	3,000

* Without including height of shoe lug.

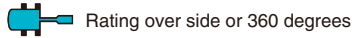
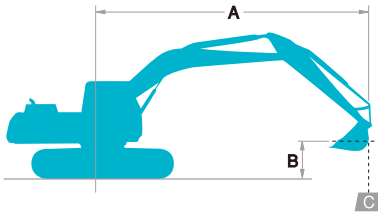


Operating Weight & Ground Pressure

In standard trim, with standard boom, 3.45 m arm, and 1.9 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)		
		600	800	900
Shoe width	mm	600	800	900
Overall width	mm	3,350	3,550	3,650
Ground pressure	kPa (kgf/cm ²)	83 (0.84)	64 (0.65)	58 (0.59)
Operating weight	kg	48,300	49,800	50,300

Lifting Capacities



A - Reach from swing centerline to bucket hook
 B - Bucket hook height above/below ground
 C - Lifting capacities in kilograms

- Max. discharge pressure: 34.3 MPa (350 kgf/cm²)

SK500LC		ME Arm: 2.4 m, Bucket: 3.4 m ³ SAE heaped 2,190 kg Shoe: 900 mm HEAVY LIFT														
B \ A		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		Radius		
9.0 m	kg													*7,020	*7,020	6.67 m
7.5 m	kg							*9,720	*9,720					*6,340	*6,340	7.92 m
6.0 m	kg							*9,980	*9,980					*6,090	*6,090	8.74 m
4.5 m	kg					*12,590	*12,590	*10,850	9,670	*9,520	6,860			*6,120	*6,120	9.24 m
3.0 m	kg			*20,470	*20,470	*14,750	13,210	*11,970	9,190	*10,440	6,670			*6,370	6,050	9.47 m
1.5 m	kg			*23,670	19,140	*16,620	12,380	*13,030	8,750	*10,930	6,460			*6,880	5,930	9.46 m
G.L.	kg			*24,830	18,490	*17,720	11,870	*13,710	8,440	*11,110	6,330			*7,750	6,130	9.20 m
-1.5 m	kg	*21,570	*21,570	*24,360	18,420	*17,820	11,690	*13,700	8,340					*9,200	6,740	8.67 m
-3.0 m	kg	*31,430	*31,430	*22,390	18,730	*16,640	11,830	*12,390	8,510					*11,440	8,050	7.82 m
-4.5 m	kg	*24,830	*24,830	*18,230	*18,230	*13,150	12,380							*11,260	11,040	6.51 m

SK500LC		Short Arm: 3.0 m, Bucket: 2.1 m ³ SAE heaped 2,270 kg Shoe: 900 mm HEAVY LIFT														
B \ A		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		Radius		
9.0 m	kg													*8,440	*8,440	7.79 m
7.5 m	kg													*8,110	7,400	8.88 m
6.0 m	kg							*8,880	*8,880	*8,370	7,100			*8,020	6,190	9.61 m
4.5 m	kg					*11,920	*11,920	*9,970	9,520	*8,890	6,860			*8,200	5,490	10.06 m
3.0 m	kg			*20,500	19,800	*14,200	12,780	*11,230	8,960	*9,580	6,560			*8,640	5,110	10.28 m
1.5 m	kg			*17,060	*17,600	*16,100	11,930	*12,380	8,470	*10,240	6,280			8,930	4,980	10.27 m
G.L.	kg			*19,150	17,910	*17,240	11,440	*13,190	8,130	*10,710	6,080			9,170	5,090	10.03 m
-1.5 m	kg	*13,220	*13,220	*24,020	17,870	*17,500	11,250	*13,460	7,970	*10,760	6,000			9,880	5,490	9.55 m
-3.0 m	kg	*21,620	*21,620	*22,570	18,110	*16,840	11,320	*12,980	8,010					*10,360	6,340	8.79 m
-4.5 m	kg	*27,070	*27,070	*19,780	18,610	*14,940	11,630	*11,110	8,310					*10,720	8,100	7.65 m
-6.0 m	kg			*14,600	*14,600									*10,530	*10,530	5.93 m

SK500LC		Standard Arm: 3.45 m, Bucket: 1.9 m ³ SAE heaped 2,150 kg Shoe: 900 mm HEAVY LIFT																
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		At Max. Reach		Radius
7.5 m	kg											*7,650	7,370			*6,880	*6,880	9.16 m
6.0 m	kg											*7,880	7,240			*6,890	5,980	9.87 m
4.5 m	kg									*9,430	*9,430	*8,460	6,970			*7,110	5,310	10.31 m
3.0 m	kg					*19,140	*19,140	*13,480	13,030	*10,760	9,100	*9,220	6,640	*7,770	4,950	*7,570	4,940	10.52 m
1.5 m	kg					*22,680	18,750	*15,580	12,120	*12,020	8,570	*9,970	6,330	*8,430	4,790	*8,300	4,790	10.51 m
G.L.	kg			*8,380	*8,380	*22,420	18,010	*16,950	11,530	*12,960	8,180	*10,550	6,090			8,810	4,870	10.28 m
-1.5 m	kg	*10,380	*10,380	*14,340	*14,340	*24,290	17,830	*17,480	11,260	*13,410	7,960	*10,770	5,970			9,420	5,220	9.81 m
-3.0 m	kg	*16,120	*16,120	*21,160	*21,160	*23,230	17,970	*17,120	11,250	*13,190	7,940	*10,320	6,010			*10,210	5,960	9.07 m
-4.5 m	kg			*29,440	*29,440	*20,900	18,380	*15,650	11,480	*11,890	8,140					*10,810	7,450	7.98 m
-6.0 m	kg					*16,550	*16,550	*12,180	12,040							*11,230	11,070	6.35 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 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.

