

# ACERA GEOSPEC

Hydraulic Excavators

## SK200 SK210<sub>LC</sub>

- Bucket Capacity:  
0.51 – 1.3 m<sup>3</sup> SAE heaped
- Engine Power:  
114 kW {155 PS}  
SAE NET / 2,000 min<sup>-1</sup>{rpm}
- Operating Weight:  
20,200 kg–SK200  
20,600 kg–SK210LC

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 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 KOBELCO's new ACERA GEOSPEC series, an entirely new kind of 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.

Photos in this catalog include optional equipment such as HD boom, HD arm and cab light.



**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/boom 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**

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

**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.

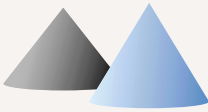
## The GEOSPEC Difference: Efficient Performance!

Amazing Productivity with a 20 % Increase  
in Fuel Consumption and "Top-Class" Cost-Performance



**↓ Fuel Consumption\***

**20 %** decrease in fuel consumption  
even when performing more  
work volume. (S-Mode)



**↑ Work Volume\***

**8 %** increase in work volume using  
the same amount of fuel.  
(H-Mode)

### "Top-Class" Powerful Digging

Max. arm crowding force: **102 kN** {10.4 tf} **↑**

Max. arm crowding force  
with power boost: **112 kN** {11.4 tf} **↑**

Max. bucket digging force: **143 kN** {14.6 tf}

Max. bucket digging force  
with power boost: **157 kN** {16.0 tf}

### Powerful Travel

Travel torque: increased by **16 %** **↑**

Drawbar pulling force: **229 kN** {23.3 ft} **↑**

### Greater Swing Power, Shorter Cycle Times

Swing torque: increased by **10 %** **↑**

Swing speed: **11 %** **↑**  
**faster (12.5 min<sup>-1</sup>)**

### Significant Extension of Continuous Working Hours

The combination of a large-capacity fuel  
tank and excellent fuel efficiency delivers  
an impressive 30 % increase in continuous  
operation hours. One tank of fuel keeps  
the machine operating under high-load  
conditions for more than 20 hours.\*\*

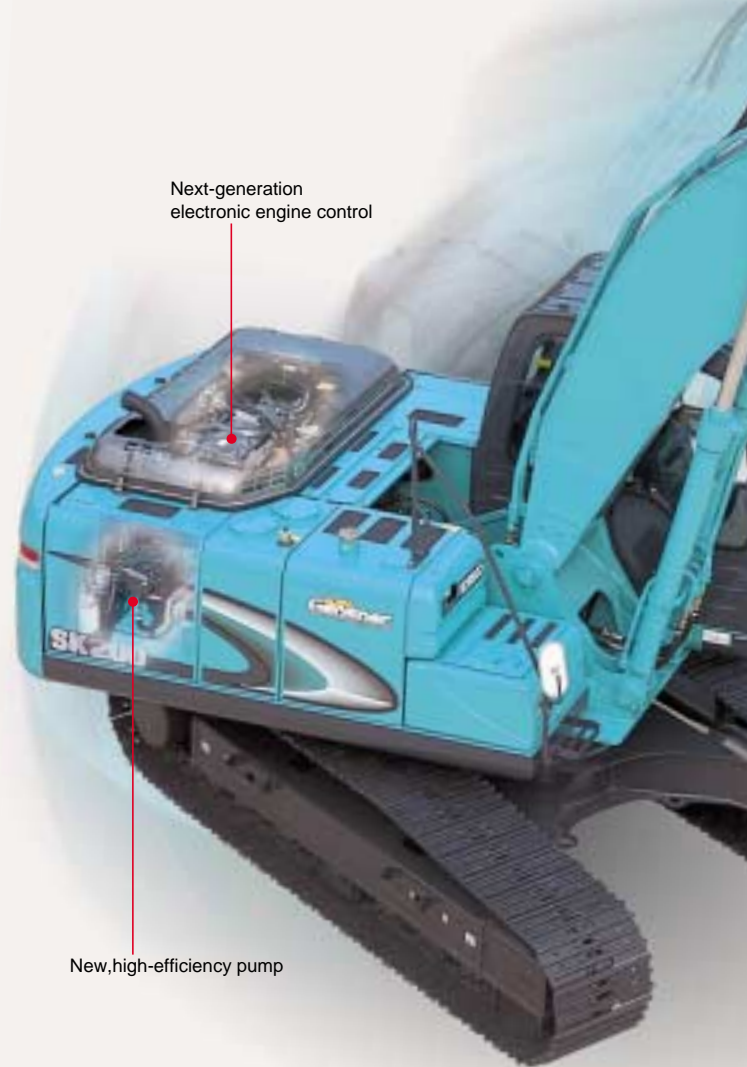
Fuel tank:  
**370 L**

**30 %** **↑**

### 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**



Next-generation  
electronic engine control

New, high-efficiency pump

### NEXT-3E Technology New Hydraulic System

**NEW!**



Rigorous inspections for  
pressure loss are performed  
on all components of the  
hydraulic piping, from the  
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.

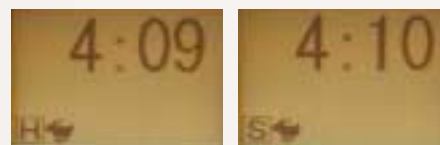
\*The value shows results from actual measurements taken by KOBELCO when compared with previous KOBELCO models.

\*\*The value shows results from actual measurements taken by KOBELCO for continuous operation in S Mode, compared with previous models.  
Results vary depending on the method of operation and load conditions.



**Simple Select:  
Two Digging Modes**

**NEW!**



**H-Mode** For heavy duty when a higher performance level is required.

**S-Mode** For normal operations with lower fuel consumption.

**Two additional modes for specialized applications:**

**B-Mode** For use with a breaker attachment.

**A-Mode** For use with other front-end attachments.

**Optional N&B (nibbler and breaker)**

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

**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.

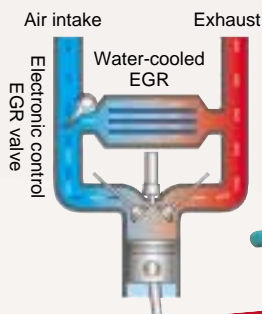
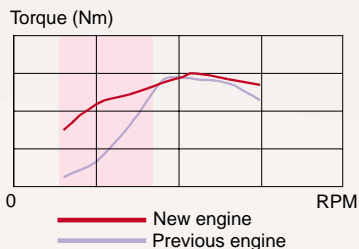
- Electronic Active Control System
- Arm regeneration system
- Boom lowering system
- Variable swing priority system
- Swing rebound prevention system

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

**NEW!**

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.

**Powerful Torque at Low-Speed**



**NEW!**

**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.

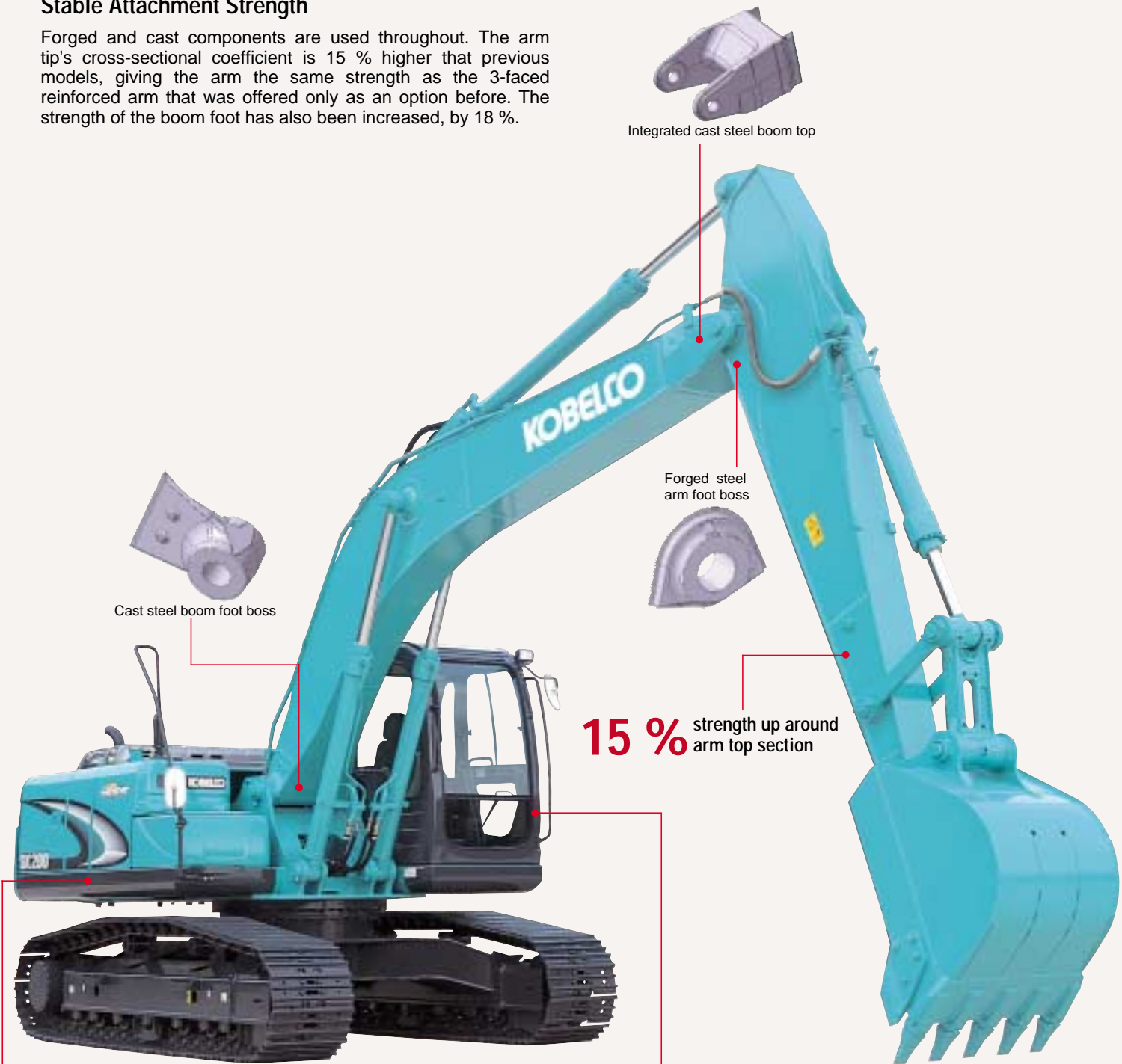
**ITCS** (Intelligent Total Control System) is an advanced, computerized system that provides comprehensive control of all machine functions.



*The GEOSPEC Difference:*  
**The Value and Quality of Sturdy Construction!**

**Stable Attachment Strength**

Forged and cast components are used throughout. The arm tip's cross-sectional coefficient is 15 % higher than previous models, giving the arm the same strength as the 3-faced reinforced arm that was offered only as an option before. The strength of the boom foot has also been increased, by 18 %.



**Enhanced Upper Carbody Strength**

The structure of the lower portion of the upper frame has been reassessed and the undercover area has been minimized. Also, the side deck's cross-sectional strength has been boosted by 50 %.



**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

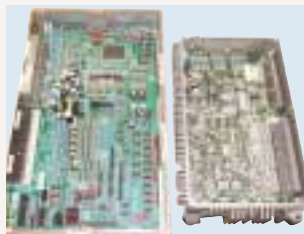
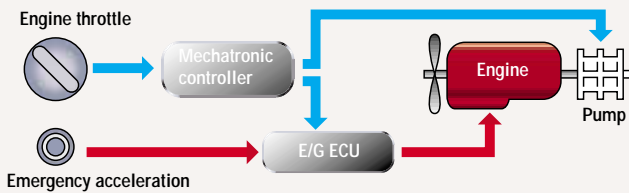
Photo is the configuration with optional HD boom and HD arm, but values show standard specification.

**NEW!**

### 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.



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

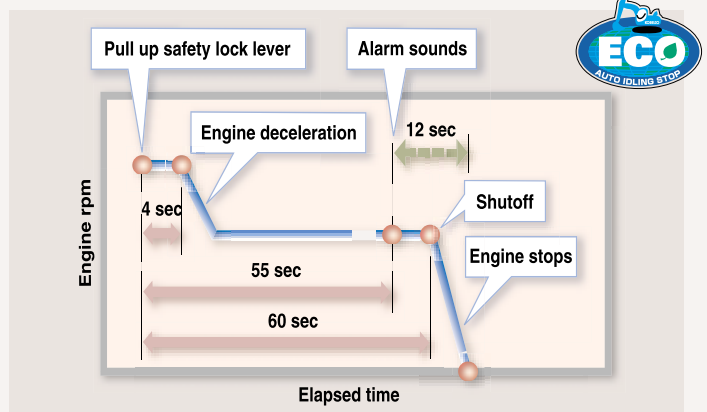
All elements of the electrical system, including controller, have been designed for enhanced reliability.

## 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.

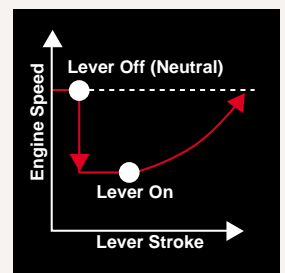
### Auto Idling Stop Provided as Standard Equipment



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 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.

### Meets EMC (Electromagnetic Compatibility) Standards in Europe.

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

## The GEOSPEC Difference: "On the Ground" Maintenance!

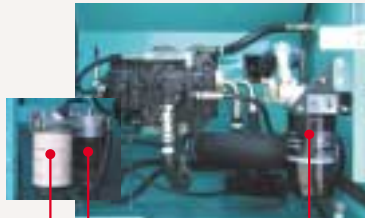
### Comfortable "On the Ground" Maintenance **NEW!**

The machine layout was designed with easy inspection and maintenance in mind.



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.



Additional large water separator  
Large fuel filter (with built-in water separator)  
Engine Oil Filter

### Quick Oil Drain Cocks for Quick Maintenance



Quick drain cock

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

**NEW!**



Fuel drain cock

**2** To facilitate fuel tank cleaning, the fuel drain cock was made larger and fitted with a flange on the bottom.

**NEW!**

### More Efficient Maintenance Inside the Cab



Drain type Detachable

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



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



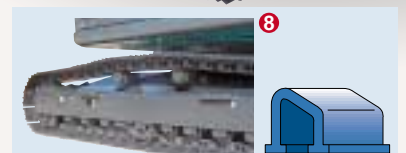
**5** Air conditioner filter can be easily removed without tools for cleaning.



**6** Hour meter can be checked while standing on the ground.

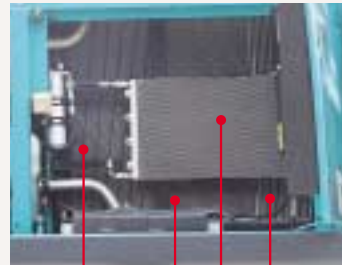


**7** Large-capacity tool box can hold up to three pallets.



**8** Special crawler frame design is easily cleaned of mud.

### Parallel Cooling Units Are Easy to Clean **NEW!**

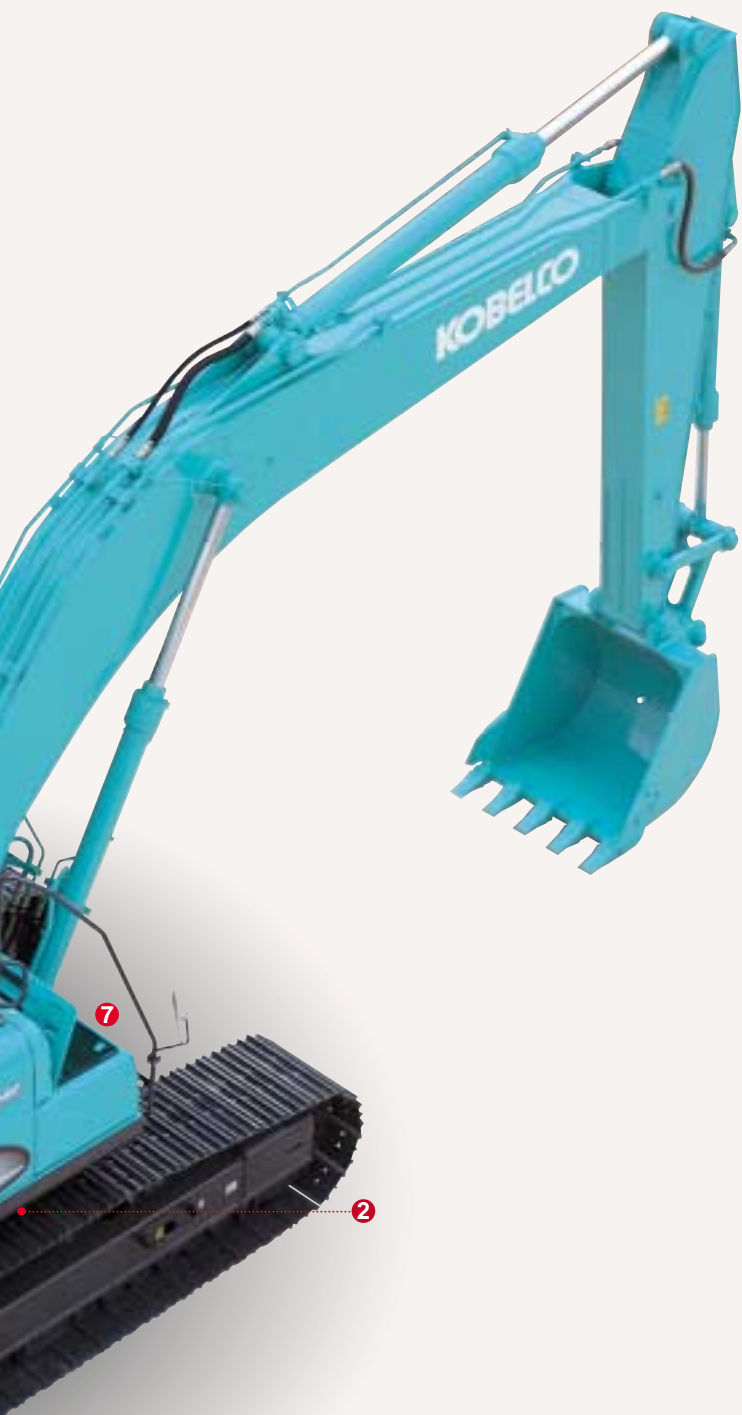


Oil cooler  
Radiator  
Intercooler  
Air conditioner condenser

**3 4 5 6**

**1**





### Highly Durable Super-fine Filter



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.

### Double-Element Air Cleaner as Standard

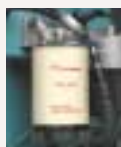


The large-capacity element features a double-filter structure that keeps the engine running clean even in dusty environments.

Air cleaner (double element)

### High-Grade Fuel Filter with Superior Filtration Performance

**NEW!**



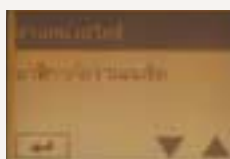
The high-performance, large capacity filter is designed specially for the common-rail fuel-injection engine.

### 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 Chinese	Lichtmaschine defekt German	CHARGE ERROR English	CHARGE ERROR English (US)
ERREUR DE CHARGE French	PENGLSIAN BATT. RUSAK Indonesian	ISO	ERRORE DI CARICA Italian
チャージ Japanese	KESALAHAN CAS Malay	ချွေချွေဝဲဝဲ Myanmar (Brumee)	ERRO DE CARGA Portuguese
ERROR EN CARGA Spanish	தவறாக திணிததல Tamil	15.15.15.15 Thai	Sạc Điện Bị Lỗi Vietnamese



*The GEOSPEC Difference:*

## 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. 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.



### Plenty of Foot Room

With a total width of 1,005 mm, the cab has 35 mm more front-to-back foot room than previous models. The travel pedal is larger for greater operator comfort.

### Creating a Comfortable Operating Environment

### 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.



Seat can be reclined to horizontal position

### In-Cab Noise is Reduced by 3dB Compared with Previous Models.

Newly Designed Information Display Prioritizes Visual Recognition

The analog gauge provides information that's easy to read regardless of the operating environment. The information display screen has been enlarged, and a visor is attached to further enhance visibility.



Photo includes optional pedals for N&B and rotation.



Double slide seat



Powerful automatic air conditioner



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: Imagining Possible Scenarios and Preparing in Advance

Bracket for Attaching a Head Guard Provided as Standard Equipment



A bracket is provided as standard equipment that allows the optional head guard to be simply bolted on.

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  
Hand rails meet European standards  
Retractable seatbelt requires no manual adjustment

Optional Features That Further Enhance Safety

Cab operating light  
Rearview camera and monitor  
Yellow swing warning light  
Travel alarm

Fire extinguisher  
One-way call





## Engine

Model	HINO J05E
Type:	Direct injection, water-cooled, 4-cycle 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:	112 mm X 130 mm
Displacement:	5.123 L
Rated power output:	114 kW {155 PS}/2,000 min <sup>-1</sup> {rpm}
Max. torque:	572 N·m/1,600 min <sup>-1</sup> {rpm}



## Hydraulic System

Pump	
Type:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 X 220 L/min, 1 X 20 L/min
Max. discharge pressure	
Boom, arm and bucket:	34.3 MPa {350 kgf/cm <sup>2</sup> }
Power Boost:	37.8 MPa {385 kgf/cm <sup>2</sup> }
Travel circuit:	34.3 MPa {350 kgf/cm <sup>2</sup> }
Swing circuit:	29.0 MPa {296 kgf/cm <sup>2</sup> }
Control circuit:	5.0 MPa {50 kgf/cm <sup>2</sup> }
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:	Hydraulic disc brake
Swing speed:	12.5 min <sup>-1</sup> {rpm}
Tail swing radius:	2,750 mm
Min. front swing radius:	3,540 mm



## Attachments

Backhoe bucket and arm combination

Use		Backhoe bucket						Slope finishing bucket		
		Normal digging			Light-duty		Heavy digging			
Bucket capacity	m <sup>3</sup>	0.51	0.7	0.8	0.93	1.05	1.3	0.8	—	
Bucket capacity (CECE heaped)	m <sup>3</sup>	0.39	0.52	0.59	0.67	0.75	0.9	0.59	—	
Opening width or X-section	With side cutters	mm	870	1,080	1,160	1,330	1,460	—	1,180	—
	Without side cutters	mm	770	980	1,060	1,230	1,360	1,630	1,060	2,200 X 1,100
No. of bucket teeth		3	5	5	5	6	6	4	—	
Bucket weight	kg	520	630	640	710	770	820	750	890	
Combinations	2.40 m short arm	○	○	○	○	△	△	○	△	
	2.94 m standard arm	○	○	○	△	×	×	○	△	
	3.50 m long arm	○	○	△	×	×	×	×	△	

○ Recommended △ Loading only × Not recommended



## Travel System

Travel motors:	2 X axial-piston, two-step motors
Travel brakes:	Hydraulic disc brake
Parking brakes:	Oil disc brake per motor
Travel shoes:	46 each side (SK200)
	49 each side (SK210LC)
Travel speed:	6.0/3.6 km/h
Drawbar pulling force:	229 kN {23.3 tf} (J 1349 MAY91)
Gradeability:	70 % {35°}
Ground clearance:	450 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:	120 mm X 1,355 mm
Arm cylinder:	135 mm X 1,558 mm
Bucket cylinder:	120 mm X 1,080 mm



## Refilling Capacities & Lubrications

Fuel tank:	370 L
Cooling system:	22 L
Engine oil:	22 L
Travel reduction gear:	2 X 5.3 L
Swing reduction gear:	3.0 L
Hydraulic oil tank:	146 L tank oil level
	230 L hydraulic system

## Working Ranges

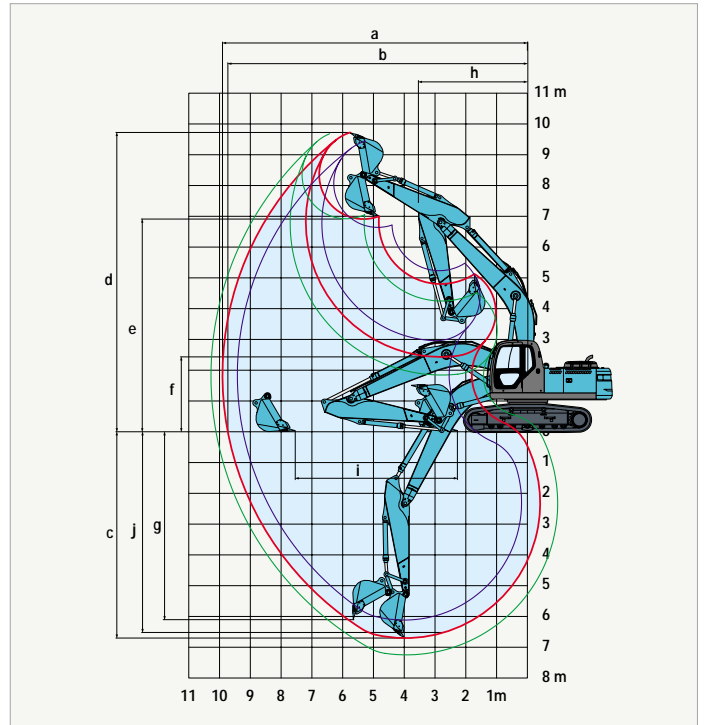
Range	Arm	Short 2.4 m	Standard 2.94 m	Long 3.5 m
a - Max. digging reach		9.42	9.9	10.34
b - Max. digging reach at ground level		9.24	9.73	10.17
c - Max. digging depth		6.16	6.7	7.26
d - Max. digging height		9.51	9.72	9.75
e - Max. dumping clearance		6.68	6.91	6.97
f - Min. dumping clearance		2.98	2.43	1.87
g - Max. vertical wall digging depth		5.57	6.1	6.47
h - Min. swing radius		3.56	3.54	3.48
l - Horizontal digging stroke at ground level		4.08	5.27	6.08
j - Digging depth for 2.4 m (8') flat bottom		5.95	6.52	7.08
Bucket capacity SAE heaped m <sup>3</sup>		0.93	0.8	0.7

### Digging Force (ISO 6015)

Unit: kN (tf)

Arm length	Short 2.4 m	Standard 2.94 m	Long 3.5 m
Bucket digging force	143 (14.6) 157 (16.0)*	143 (14.6) 157 (16.0)*	143 (14.6) 157 (16.0)*
Arm crowding force	121 (12.3)* 133 (13.6)*	102 (10.4) 112 (11.4)*	91.8 (9.36) 101 (10.3)

\*Power Boost engaged.



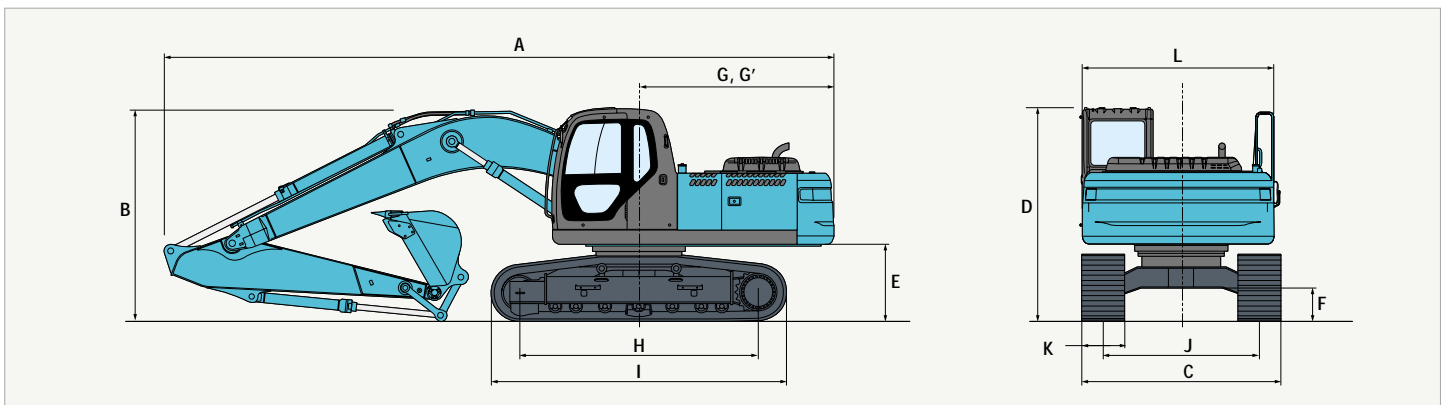
— Short Arm  
— Standard Arm  
— Long Arm

## Dimensions

Arm length	Short 2.4 m	Standard 2.94 m	Long 3.5 m
A Overall length	9,530	9,450	9,520
B Overall height (to top of boom)	3,160	2,980	3,180
C Overall width	SK200	2,800	2,800
	SK210LC	2,990	2,990
D Overall height (to top of cab)	3,030	3,030	3,030
E Ground clearance of rear end*	1,060	1,060	1,060
F Ground clearance*	450	450	450

Unit: mm			
G Tail swing radius		2,750	2,750
G' Distance from center of swing to rear end		2,750	2,750
H Tumbler distance	SK200	3,370	3,370
	SK210LC	3,660	3,660
I Overall length of crawler	SK200	4,170	4,170
	SK210LC	4,450	4,450
J Track gauge	SK200	2,200	2,200
	SK210LC	2,390	2,390
K Shoe width		600/700/800/900	
L Overall width of upperstructure	2,710	2,710	2,710

\* Without including height of shoe lug.

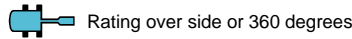
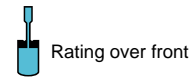
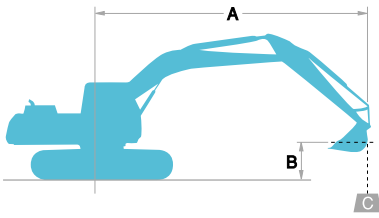


## Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.8 m<sup>3</sup> SAE heaped bucket

Shaped	mm	Triple grouser shoes (even height)				Triagle shoe
		600	700	800	900	
Shoe width	mm	600	700	800	900	
Overall width	mm	SK200	2,800	2,900	3,000	3,100
		SK210LC	2,990	3,090	3,190	3,290
Ground pressure	kPa (kgf/cm <sup>2</sup> )	SK200	45 (0.46)	40 (0.40)	35 (0.36)	32 (0.32)
		SK210LC	43 (0.44)	38 (0.38)	33 (0.34)	30 (0.31)
Operating weight	kg	SK200	20,200	20,600	20,900	21,300
		SK210LC	20,600	21,100	21,400	21,800

# 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: 37.8 MPa (385 kg/cm<sup>2</sup>)













SK200		Standard Arm: 2.94 m Bucket: 0.8 m <sup>3</sup> SAE heaped 640 kg Shoe: 600 mm												
B \ A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius	
7.5 m	kg											*2,860	*2,860	6.33 m
6.0 m	kg							*4,610	4,540			*2,710	*2,710	7.42 m
4.5 m	kg							*5,130	4,350	*4,520	2,930	*2,720	2,530	8.09 m
3.0 m	kg			*12,070	*12,070	*7,620	6,420	*5,930	4,070	4,450	2,800	*2,850	2,260	8.44 m
1.5 m	kg			*6,670	*6,670	*9,260	5,850	6,140	3,800	4,300	2,670	*3,140	2,150	8.51 m
G. L.	kg			*7,690	*7,690	9,410	5,520	5,910	3,600	4,180	2,560	3,570	2,170	8.30 m
-1.5 m	kg	*6,890	*6,890	*10,910	10,520	9,270	5,400	5,810	3,510	4,130	2,510	3,890	2,370	7.81 m
-3.0 m	kg	*10,460	*10,460	*13,520	10,690	9,320	5,440	5,820	3,520			4,660	2,850	6.96 m
-4.5 m	kg			*10,440	*10,440	*7,450	5,630					*5,670	4,080	5.59 m













SK200		Standard Arm: 2.94 m Bucket: 0.8 m <sup>3</sup> SAE heaped 640 kg Shoe: 800 mm												
B \ A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius	
7.5 m	kg											*2,860	*2,860	6.33 m
6.0 m	kg							*4,610	*4,610			*2,710	*2,710	7.42 m
4.5 m	kg							*5,130	4,470	*4,520	3,030	*2,720	2,620	8.09 m
3.0 m	kg			*12,070	*12,070	*7,620	6,600	*5,930	4,200	4,600	2,900	*2,850	2,340	8.44 m
1.5 m	kg			*6,670	*6,670	*9,260	6,040	6,350	3,930	4,450	2,760	*3,140	2,230	8.51 m
G. L.	kg			*7,690	*7,690	9,730	5,700	6,120	3,730	4,340	2,650	*3,630	2,260	8.30 m
-1.5 m	kg	*6,890	*6,890	*10,910	10,850	9,590	5,580	6,020	3,630	4,290	2,610	4,040	2,460	7.81 m
-3.0 m	kg	*10,460	*10,460	*13,520	11,020	*9,410	5,620	6,030	3,650			4,830	2,950	6.96 m
-4.5 m	kg			*10,440	*10,440	*7,450	5,820					*5,670	4,220	5.59 m













SK200		Short Arm: 2.4 m Bucket: 0.93 m <sup>3</sup> SAE heaped 710 kg Shoe: 600 mm												
B \ A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius	
7.5 m	kg											*4,190	*4,190	5.66 m
6.0 m	kg							*5,050	4,390			*3,950	3,420	6.86 m
4.5 m	kg					*6,550	*6,550	*5,510	4,210	*4,420	2,830	*3,990	2,770	7.58 m
3.0 m	kg					*8,220	6,180	*6,250	3,950	4,360	2,720	3,940	2,440	7.95 m
1.5 m	kg					9,590	5,660	6,020	3,700	4,230	2,600	3,790	2,320	8.02 m
G. L.	kg			*6,870	*6,870	9,280	5,410	5,830	3,530	4,140	2,510	3,890	2,360	7.81 m
-1.5 m	kg	*7,710	*7,710	*11,810	10,530	9,220	5,350	5,770	3,470			4,310	2,610	7.28 m
-3.0 m	kg	*12,470	*12,470	*12,240	10,750	*8,820	5,450	5,850	3,540			5,360	3,260	6.36 m
-4.5 m	kg			*8,600	*8,600	*6,210	5,730					*5,690	5,190	4.81 m

SK200		SK200 Long Arm: 3.5 m Bucket: 0.70 m <sup>3</sup> SAE heaped 630 kg Shoe: 600 mm												
B \ A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius	
7.5 m	kg											*2,460	*2,460	6.89 m
6.0 m	kg									*3,200	3,000	*2,350	*2,350	7.90 m
4.5 m	kg							*4,530	4,360	*4,240	2,910	*2,370	2,240	8.53 m
3.0 m	kg			*10,000	*10,000	*6,720	6,510	*5,360	4,060	4,410	2,750	*2,490	1,990	8.86 m
1.5 m	kg			*10,400	*10,400	*8,520	5,860	6,090	3,750	4,230	2,590	*2,740	1,880	8.92 m
G. L.	kg	*3,630	*3,630	*8,600	*8,600	9,310	5,420	5,820	3,500	4,080	2,450	*3,170	1,800	8.73 m
-1.5 m	kg	*6,370	*6,370	*10,620	10,170	9,080	5,220	5,660	3,360	3,990	2,370	3,440	2,030	8.26 m
-3.0 m	kg	*9,310	*9,310	*14,170	10,270	9,060	5,200	5,630	3,330			4,030	2,400	7.47 m
-4.5 m	kg	*12,890	*12,890	*11,730	10,580	*8,160	5,340	5,760	3,450			5,460	3,280	6.21 m
-6.0 m	kg											*5,350	*5,350	4.08 m

SK210LC		Standard Arm: 2.94 m Bucket: 0.8 m <sup>3</sup> SAE heaped 640 kg Shoe: 600 mm												
B \ A		1.5 m		3.0 m		4.5 m		6.0 mm		7.5 m		At Max. Reach		Radius
														
7.5 m	kg											*2,860	*2,860	6.33 m
6.0 m	kg							*4,610	*4,610			*2,710	*2,710	7.42 m
4.5 m	kg							*5,130	4,820	*4,520	3,270	*2,720	*2,720	8.09 m
3.0 m	kg			*12,070	*12,070	*7,620	7,180	*5,930	4,540	5,040	3,140	*2,850	2,540	8.44 m
1.5 m	kg			*6,670	*6,670	*9,260	6,600	*6,750	4,270	4,880	3,000	*3,140	2,430	8.51 m
G. L.	kg			*7,690	*7,690	*10,160	6,250	*6,760	4,060	4,760	2,890	*3,630	2,680	8.30 m
-1.5 m	kg	*6,890	*6,890	*10,910	*10,910	*10,200	6,130	6,650	3,970	4,710	2,850	4,430	2,220	7.81 m
-3.0 m	kg	*10,460	*10,460	*13,520	12,340	*9,410	6,170	6,670	3,980			5,320	3,220	6.96 m
-4.5 m	kg			*10,440	*10,440	*7,450	6,370					*5,670	4,600	5.59 m

SK210LC		Standard Arm: 2.94 m Bucket: 0.8 m <sup>3</sup> SAE heaped 640 kg Shoe: 800 mm												
B \ A		1.5 m		3.0 m		4.5 m		6.0 mm		7.5 m		At Max. Reach		Radius
														
7.5 m	kg											*2,860	*2,860	6.33 m
6.0 m	kg											*2,710	*2,710	7.42 m
4.5 m	kg							*5,130	4,970	*4,520	3,380	*2,720	*2,720	8.09 m
3.0 m	kg			*12,070	*12,070	*7,620	7,390	*5,930	4,690	*5,070	3,250	*2,850	2,640	8.44 m
1.5 m	kg			*6,670	*6,670	*9,260	6,810	*6,750	4,410	5,070	3,110	*3,140	2,520	8.51 m
G. L.	kg			*7,690	*7,690	*10,160	6,470	*7,010	4,210	4,950	3,000	*3,630	2,560	8.30 m
-1.5 m	kg	*6,890	*6,890	*10,910	*10,910	*10,200	6,350	6,900	4,110	4,900	2,960	*4,530	2,790	7.81 m
-3.0 m	kg	*10,460	*10,460	*13,520	12,740	*9,410	6,390	*6,880	4,130			5,520	3,340	6.96 m
-4.5 m	kg			*10,440	*10,440	*7,450	6,580					*5,670	4,760	5.59 m

SK210LC		Short Arm: 2.4 m Bucket: 0.93 m <sup>3</sup> SAE heaped 710 kg Shoe: 600 mm												
B \ A		1.5 m		3.0 m		4.5 m		6.0 mm		7.5 m		At Max. Reach		Radius
														
7.5 m	kg											*4,190	*4,190	5.66 m
6.0 m	kg							*5,050	4,870			*3,950	3,810	6.86 m
4.5 m	kg					*6,550	*6,550	*5,510	4,690	*4,420	3,160	*3,990	3,100	7.58 m
3.0 m	kg					*8,220	6,930	*6,250	4,420	4,940	3,050	*4,220	2,750	7.95 m
1.5 m	kg					*9,640	6,400	6,880	4,160	4,810	2,930	4,310	2,620	8.02 m
G. L.	kg			*6,870	*6,870	*10,220	6,140	6,680	3,990	4,720	2,850	4,430	2,680	7.81 m
-1.5 m	kg	*7,710	*7,710	*11,810	*11,810	*9,950	6,080	6,610	3,930			4,920	2,960	7.28 m
-3.0 m	kg	*12,470	*12,470	*12,240	*12,240	*8,820	6,180	*6,410	4,000			*5,870	3,680	6.36 m
-4.5 m	kg			*8,600	*8,600	*6,210	*6,210					*5,690	*5,690	4.81 m

SK210LC		Long Arm: 3.5 m Bucket: 0.70 m <sup>3</sup> SAE heaped 630 kg Shoe: 600 mm												
B \ A		1.5 m		3.0 m		4.5 m		6.0 mm		7.5 m		At Max. Reach		Radius
														
7.5 m	kg											*2,460	*2,460	6.89 m
6.0 m	kg									*3,200	*3,200	*2,350	*2,350	7.90 m
4.5 m	kg							*4,530	*4,530	*4,240	3,250	*2,370	*2,370	8.53 m
3.0 m	kg			*10,000	*10,000	*6,720	*6,720	*5,360	4,530	*4,650	3,090	*2,490	2,260	8.86 m
1.5 m	kg			*10,400	*10,400	*8,520	6,600	*6,260	4,210	4,810	2,920	*2,740	2,140	8.92 m
G. L.	kg	*3,630	*3,630	*8,600	*8,600	*9,700	6,150	6,670	3,960	4,660	2,780	*3,170	2,160	8.73 m
-1.5 m	kg	*6,370	*6,370	*10,620	*10,620	*10,060	5,950	6,500	3,820	4,570	2,700	*3,910	2,320	8.26 m
-3.0 m	kg	*9,310	*9,310	*14,170	11,910	*9,600	5,930	6,480	3,790			4,610	2,730	7.47 m
-4.5 m	kg	*12,890	*12,890	*11,730	*11,730	*8,160	6,070	*5,790	3,910			*5,480	3,710	6.21 m
-6.0 m	kg											*5,350	*5,350	4.08 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.

## STANDARD EQUIPMENT

### ENGINE

- Engine, HINO J05E, Diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idling Stop (AIS)
- Batteries (2 x 12V - 96Ah)
- Starting motor (24V - 5 kW), 50 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, 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
- Aluminum hydraulic oil cooler

### MIRRORS & LIGHTS

- Two rearview mirrors
- Two 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
- Double slide 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

## OPTIONAL EQUIPMENT

- Radio, AM/FM Stereo with speakers
- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Travel alarm

- Boom safety valve
- Arm safety valve
- 7-way adjustable suspension seat
- 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. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalog may be reproduced in any manner without notice.

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