ACERA GEOSPEC

SK200
SK210LC

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.

Courtesy of Machine.Market

Pursuing the "Three E's"

The Perfection of Next-Generation, Network Performance

Enhancement

Greater Performance Capacity

ACERA GEOSPEC

Courtesy of Machine.Market

The GEOSPEC Difference:

Efficient Performance!

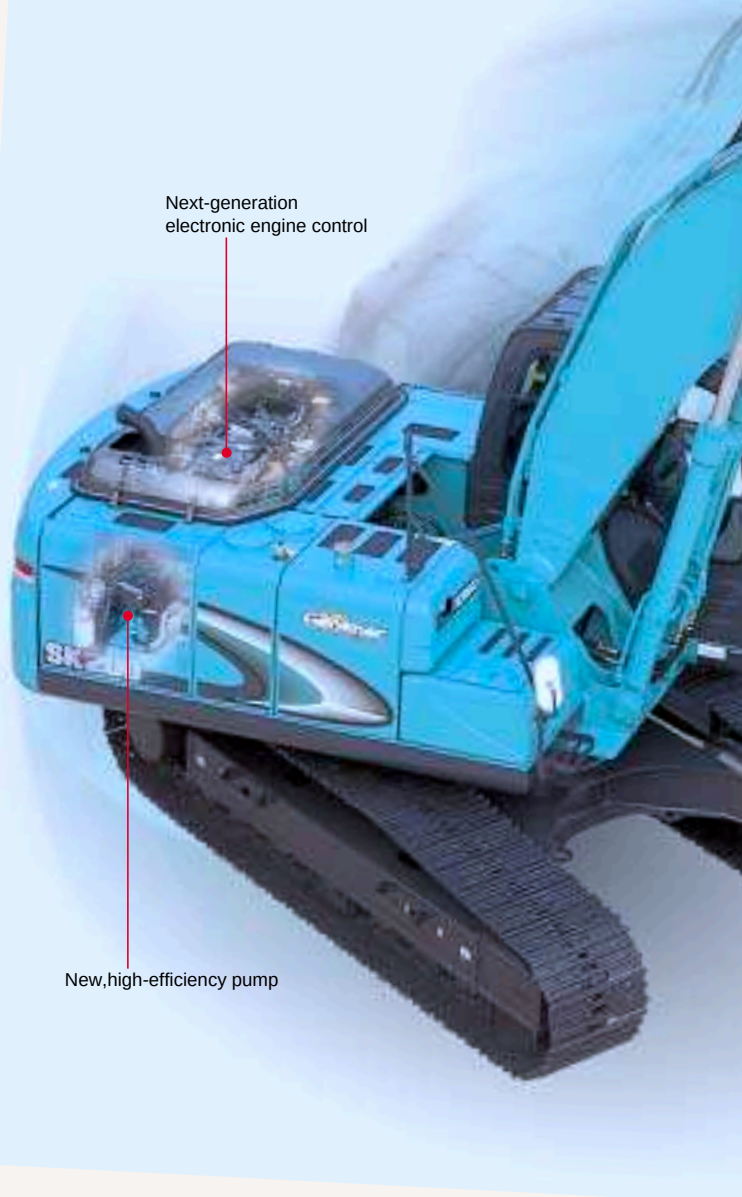
Amazing Productivity with a 20 % Increase in Fuel Consumption and "Top-Class" Cost-Performance

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^{-1})

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-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.

Courtesy of Machine.Market

Simple Select: Two Digging Modes

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.

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.

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.

Courtesy of Machine.Market

ACERA GEOSPEC

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 that 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

Courtesy of Machine.Market

The GEOSPEC Difference:

"On the Ground" Maintenance!

Quick Oil Drain Cocks for Quick Maintenance

More Efficient Maintenance Inside the Cab

Courtesy of Machine.Market

Courtesy of Machine.Market

The GEOSPEC Difference:

Designed from the Operator's Point of View

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.

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.

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

Creating a Comfortable Operating Environment

Courtesy of Machine.Market

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.

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.

Courtesy of Machine.Market

Specifications

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^{-1}{rpm}
Max. torque:	572 N•m/1,600 min^{-1}{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^2}
Power Boost:	37.8 MPa {385 kgf/cm^2}
Travel circuit:	34.3 MPa {350 kgf/cm^2}
Swing circuit:	29.0 MPa {296 kgf/cm^2}
Control circuit:	5.0 MPa {50 kgf/cm^2}
Pilot control pump:	Gear type
Main control valves:	8-spool
Oil cooler:	Air cooled type

Swing System

Swing motor:	Axial-piston motor
Brake:	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake:	Hydraulic disc brake
Swing speed:	12.5 min^{-1}{rpm}
Tail swing radius:	2,750 mm
Min. front swing radius:	3,540 mm

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

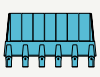
Boom cylinders:	120 mm X 1,355 mm
Arm cylinder:	135 mm X 1,558 mm
Bucket cylinder:	120 mm X 1,080 mm

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

Attachments

Backhoe bucket and arm combination

Use			Backhoe bucket							Slope finishing bucket
			Normal digging				Light-duty		Heavy digging	
										—
Bucket capacity		m^3	0.51	0.7	0.8	0.93	1.05	1.3	0.8	—
Bucket capacity (CECE heaped)		m^3	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

Working Ranges

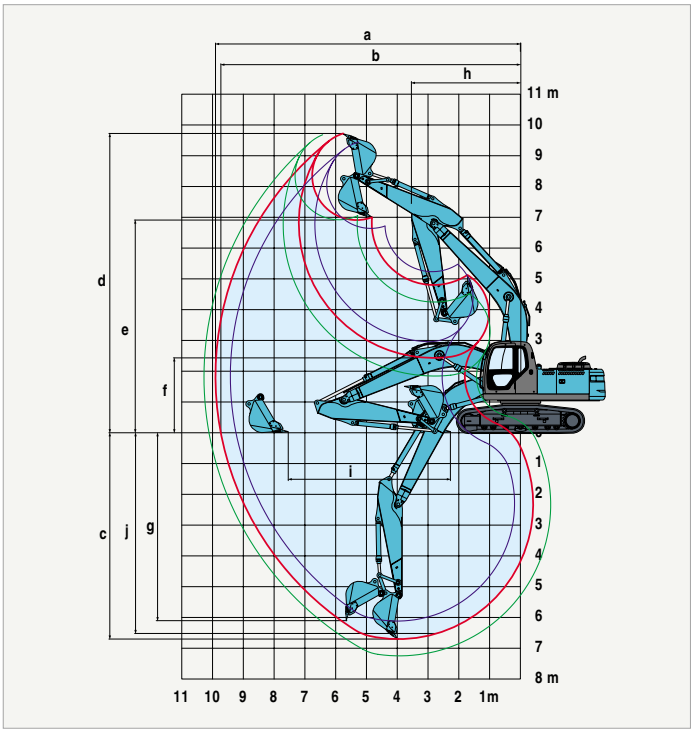
Range \ Arm	Short 2.4 m	Standard 2.94 m	Long 3.5 m
a- Max. digging reach	9.42	9.9	10.34
b- Max. digging reach at ground level	9.24	9.73	10.17
c- Max. digging depth	6.16	6.7	7.26
d- Max. digging height	9.51	9.72	9.75
e- Max. dumping clearance	6.68	6.91	6.97
f - Min. dumping clearance	2.98	2.43	1.87
g- Max. vertical wall digging depth	5.57	6.1	6.47
h- Min. swing radius	3.56	3.54	3.48
I - 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 m³	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

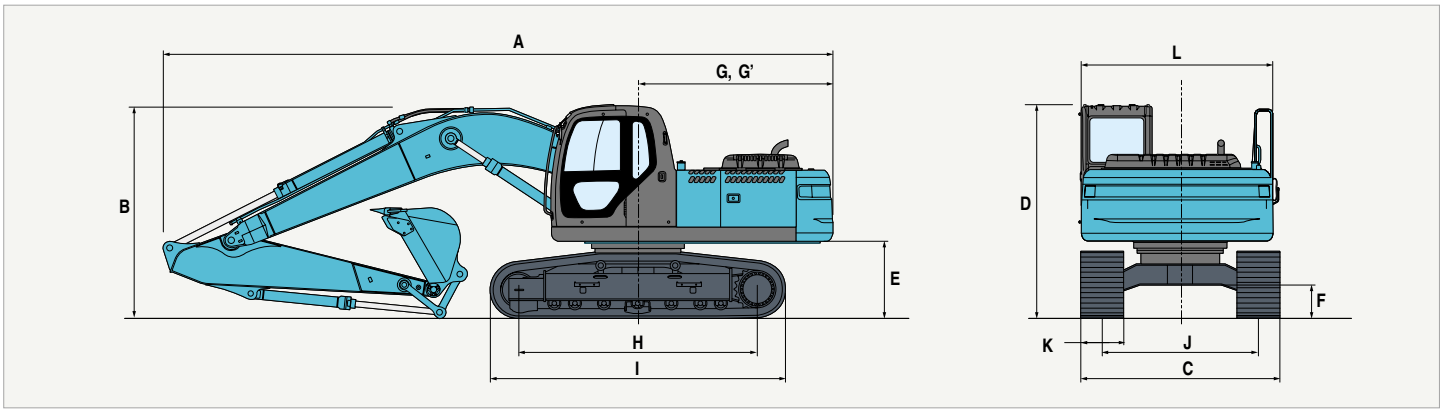
Dimensions

Unit: mm

	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	2,800
		SK210LC	2,990	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

G	Tail swing radius		2,750	2,750	2,750
G'	Distance from center of swing to rear end		2,750	2,750	2,750
H	Tumbler distance	SK200	3,370	3,370	3,370
		SK210LC	3,660	3,660	3,660
I	Overall length of crawler	SK200	4,170	4,170	4,170
		SK210LC	4,450	4,450	4,450
J	Track gauge	SK200	2,200	2,200	2,200
		SK210LC	2,390	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.

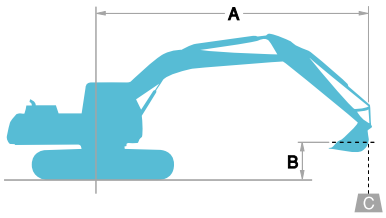


Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.8 m³ SAE heaped bucket

Shaped			Triple grouser shoes (even height)			Triagle shoe
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/cm²)	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



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: 37.8 MPa (385 kg/cm²)

SK200 — Standard Arm: 2.94 m Bucket: 0.8 m³ SAE heaped 640 kg Shoe: 600 mm

A / B		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	4,540			*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 m³ SAE heaped 640 kg Shoe: 800 mm

A / B		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	4,470	*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 m³ SAE heaped 710 kg Shoe: 600 mm

A / B		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	4,390			*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 m³ SAE heaped 630 kg Shoe: 600 mm

A / B		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	3,000	*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 m³ SAE heaped 640 kg Shoe: 600 mm												
A / B		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 m³ SAE heaped 640 kg Shoe: 800 mm												
A / B		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 m³ SAE heaped 710 kg Shoe: 600 mm												
A / B		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 m³ SAE heaped 630 kg Shoe: 600 mm												
A / B		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

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.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN
Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135

Inquiries To:

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