

KOBELCO

SK200-11/SK210LC-11

Performance  Design

SK200 SK210_{LC}

- Bucket capacity:
0.80 – 0.93 m³
- Engine power:
127 kW / 2,000 min⁻¹
- Operating weight:
21,700 – 22,800 kg



We Save You Fuel
Achieving a Low-Carbon Society



Performance Design

With the release of the SK200/SK210LC, KOBELCO has completely harmonised the values of PERFORMANCE and DESIGN.

The SK200/SK210LC delivers greater efficiency and productivity with increased power and speed, along with uncompromising operator comfort and machine operability.

In the pursuit of producing unique and unbeatable machines that provide comfort and productivity without equal, KOBELCO continues to rise to the challenge.



THE ULTIMATE SLEEK AND STYLISH CAB DESIGN

True ergonomic functionality combined with modern design has resulted in a cabin interior that is sleek and comfortable, built for simplicity and operator comfort.

Jog dial

The jog dial integrates multiple functions to allow for simple navigation of machine information screens, even while wearing gloves.

LED backlights

LED backlighting on switches and dials provides a bright, clear view of controls, even in the dark, while delivering a premium look and feel.







UNFORGETTABLE COMFORT

Air suspension seat

A GRAMMER* seat is installed as standard equipment, which achieves excellent shock absorption and superior ride comfort.

*GRAMMER is trademark of GRAMMER AG, registered in Germany and other countries.

Optimal air conditioning vent placement

Air conditioning vents are optimally placed around the cabin with air flow directed toward the operator's neck and back, providing more comfortable operation.

Ergonomic and low-effort pilot control levers

Pilot control levers are mounted on adjustable consoles, with an ergonomic design that allows movement without twisting, reducing operator fatigue.



New Hydraulic Control

Our newly upgraded hydraulic control system responds to shorter lever strokes than current models, delivering swifter, more precise movement and improved lever operability.

LED door light

The LED interior light automatically turns on when the door is opened or when the ignition is set to OFF. This ensures easy entry and exit at nighttime.



KOBELCO



04:33



SETTING MENU



PICTURE OF CAMERA



CLOCK SETTING



SCREEN BRIGHTNESS



MAINTENANCE



CONSUMPTION



LANGUAGE SELECTION



PRESSURE RELEASE



A WIDER VIEW BRINGS A WIDER RANGE OF USE

10-inch colour monitor—the largest in the industry

The easy-to-operate menu screen facilitates easy reading and navigation. Images from the built-in cameras can be checked on the large screen, which helps to improve safety. In addition, each icon is easily recognisable.



The right camera and rear camera (right side view mode)



The right camera and rear camera (straight view mode)



SAFETY ON FULL DISPLAY

Our high-resolution, large display shows right, left and rear side cameras together. Multiple camera modes allow operators to customise their display based on their needs to enhance awareness and jobsite safety.



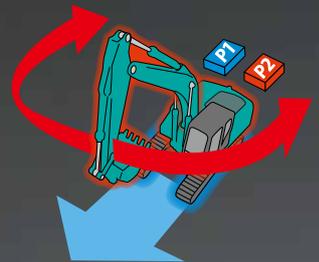
Screen display linked with the jog dial operation

The jog dial provides simple and intuitive control of all display screens. Turn the jog dial to the right or left to select an item and press the dial to confirm the selection.



Independent Travel

Selecting Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment. With Independent Travel, safely carrying a large pipe across a job site is a breeze.

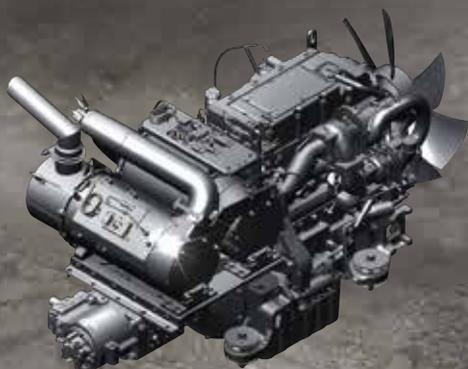


THE NEXT LEVEL OF PERFORMANCE

Higher Efficiency, plus a Tier IV Final Compliant Engine

The new SK200/SK210LC is equipped with a Yanmar Tier IV Final Compliant engine, which has a higher torque value. Superior balance between engine output and torque contributes to more efficient performance than the previous models.

In addition, the DPF replacement interval has been extended.



Model: YANMAR 4TN107FTT

Engine output

127 kW/2,000 min⁻¹



»» Max. bucket digging force (Arm 2.94 m)

Normal: **143** kN

With power boost: **157** kN

Lift capacity

10,240 kg (SK200)

(Reach: 4.50 m Boom: 5.65 m Arm: 2.94 m Bucket: Without
Counterweight: 4,300 kg Shoe: 600 mm <Heavy Lift> At Ground level)



GREATER MULTI-FUNCTION CAPABILITIES

Attachment mode

The flow rate and working pressure modes of the bucket, breaker, nibbler, and rotating grapple are set before delivery, which allows you to start operating immediately. Mode settings for other attachments, such as the tilt rotator, can easily be added or changed.



EASY MAINTENANCE



Standard Overhead Top Guard Level II

The standard overhead cab guard can be tilted open with gas damper for easy window cleaning. Meets standard top guard level II requirements. (ISO 10262)



Engine Maintenance

Lower service platform makes engine service easier.



Two-Stage Air Filter



DEF/AdBlue® Tank

The DEF/AdBlue® fill is located inside the locking tool box.



Left Side (Radiator and Cooling System Elements)

Laid out for easy access to radiator and cooling system with clean out screen.



Right Side (Ground Level Maintenance)

Hydraulic pump and engine filter compartment.



Fuel Filter / Pre-Filter with Integrated Water Separator



Engine Oil Filter

Note: AdBlue® is a registered trademark of the Verband der Automobilindustrie e.V. (VDA).

DURABILITY YOU CAN TRUST

Enhanced machine durability for 20-ton class machines

The SK200/SK210LC machines are widely used in mid-scale construction projects and harsh worksites. The new performance meets design philosophy has focused on durability to ensure optimal performance in the harshest of environments.



Panels and supports

The right and left side panels and rear supports have been reinforced to enhance body rigidity.



Bucket cylinder rod pin

The increased diameter of the bucket cylinder rod pin contributes to enhanced durability for various types of attachments.

CONVENIENT AND SENSIBLE EQUIPMENT



Engine start password

A password is required when starting the engine for greater security.



Wiper adjustment function

In addition to the intermittent wiper mode and continuous wiper mode, the one-time wiper mode was added.



Console mount

The console-integrated seat allows for comfortable operation.



AM/FM Bluetooth® (hands-free) radio

Audio streaming and hands free phone calling capability.



USB port/12 V power outlet



Smartphone holder

You can use the holder with your smartphone connected to the USB port.

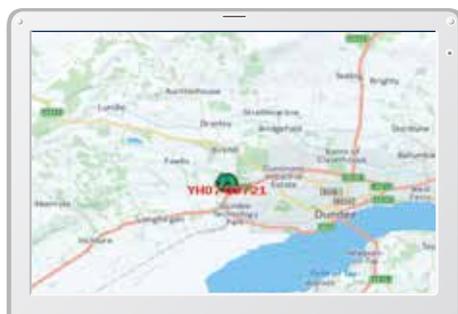
Excavator Remote Monitoring System



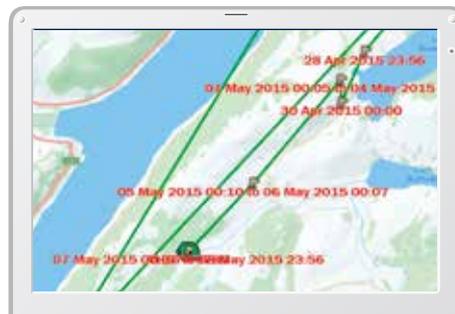
Direct Access to Operational Status

Location Data

• Accurate location data can be obtained even from sites where communications are difficult.



Latest location



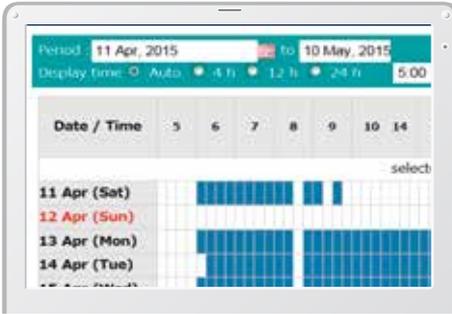
Location records

Type of Operation	Working Hrs	Ratio
Total Working Hrs	169 Hrs	100 %
Digging Hrs	72.2 Hrs	43 %
Traveling Hrs	18.3 Hrs	11 %
Idle Hrs	15.9 Hrs	9 %
Opt Att Hrs	62.5 Hrs	37 %
Crane Mode Hrs	0 Hrs	0 %

Work data

Operating Hours

- A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.
- Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.



Daily report

Fuel Consumption Data

- Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

Work mode	Working Hrs	Total Fuel Consumption
H mode	2:06	24.5 L
S mode	0:00	0.0 L
E mode	169:19	1489.7 L
TOTAL	171:25	1514.2 L

Fuel consumption

Graph of Work Content

- The graph shows how working hours are divided among different operating categories, including digging, idling, travelling and optional operations.



Work status

Maintenance Data and Warning Alerts

Machine Maintenance Data

- Provides maintenance status of separate machines operating at multiple sites.
- Maintenance data is also relayed to KOBELCO service personnel, for more efficient planning of periodic servicing.

Model	Serial No.	Hour Meter	Engine Oil
SK135RSLC-3/SK140SRL	YH07-09721	734 Hr	434
SK135RSLC-3/SK140SRL	YH07-09789	73 Hr	429
SK210LC-9	YQ13-10454	960 Hr	58
SK210LC-9	YQ13-10481	549 Hr	498
SK75SR-	YT08-30374		

Maintenance

Warning Alerts

- This system gives an alert if an anomaly is sensed, preventing damage that could result in machine downtime.

Alarm Information Can Be Received via E-mail

- Alarm information or maintenance notice can be received via e-mail, using a computer or a mobile device.



Alarm messages can be received on a mobile device.

Daily/Monthly Reports

- Operational data downloaded onto a computer helps in formulating daily and monthly reports.

Security System

Engine Start Alarm

- The system can be set up with an alarm if the machine is operated outside designated time.

Engine start alarm outside prescribed work time

Area Alarm

- It can be set up with an alarm if the machine is moved out of its designated area to another location.

Alarm for outside of reset area

Specifications

Engine

Model	YANMAR 4TN107FTT
Type	Four-cycle, water-cooled, direct injection diesel engine, turbo charged, Tier IV Final exhaust emission regulation
No. of cylinders	4
Bore and stroke	107 mm × 127 mm
Displacement	4,567 ml
Rated power output	119 kW / 2,000 min ⁻¹ (ISO 9249 : with fan)
	127 kW / 2,000 min ⁻¹ (ISO 14396: without fan)
Max. torque	783 N·m / 1,500 min ⁻¹ (ISO 9249 : with fan)
	805 N·m / 1,500 min ⁻¹ (ISO 14396: without fan)

Hydraulic system

Pump	
Type	Two variable displacement axial piston pumps + extra gear pump + pilot gear pump
Max. discharge flow	2 × 220 L/min, 1 × 40.6 L /min, 1 × 20 L/min
Relief valve setting	
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 {51 kgf/cm ² }
Pilot control pump	Gear type
Main control valve	8-Spool valve
Oil cooler	Air cooled type

Swing system

Swing motor	One fixed displacement piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake	Wet multiple plate
Swing speed	12.7 min ⁻¹
Swing torque	71.5 kN·m

Attachments

Backhoe bucket and combination

Use	Backhoe bucket			
	Normal digging			
Bucket capacity	ISO heaped	m ³	0.80	0.93
Opening width	With side cutter	mm	1,160	1,330
	Without side cutter	mm	1,060	1,230
No. of teeth			5	5
Bucket weight		kg	660	720
Combination	2.94 m standard HD arm		◎	○
	3.50 m long HD arm		△	×

◎ Standard ○ Recommended △ Loading only × 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	SK200	46 each side
	SK210LC	49 each side
Travel speed	6.0/3.6 km/h	
Rated drawbar pull	228 kN (SAE J 1309)	
Gradeability	70 % {35 °}	

Cab & control

Cab

All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil 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

Cylinders

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

Refilling capacities & lubrications

Fuel tank	321 L
Cooling system	23 L
Engine oil	20 L
Travel reduction gear	2 × 4.5 L
Swing reduction gear	1 × 2.7 L
Hydraulic oil tank	140 L tank oil level
	244 L hydraulic system
DEF/Urea tank	83 L

Working ranges

Unit: mm

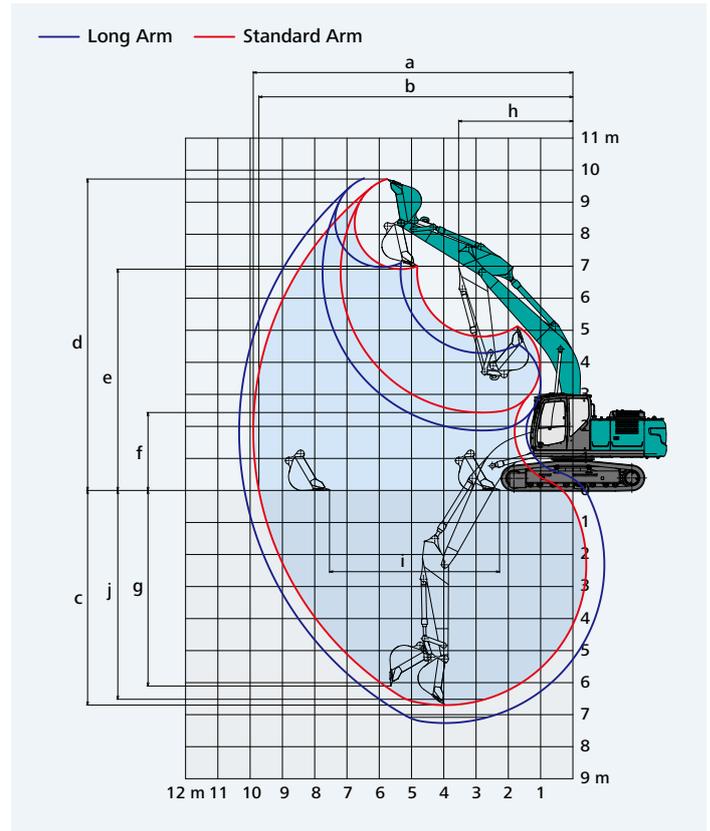
Boom		5.65m	
Range		Standard 2.94 m	Long 3.50 m
a-	Max. digging reach	9,900	10,340
b-	Max. digging reach at ground level	9,730	10,170
c-	Max. digging depth	6,700	7,260
d-	Max. digging height	9,720	9,750
e-	Max. dumping clearance	6,910	6,970
f-	Min. dumping clearance	2,430	1,870
g-	Max. vertical wall digging depth	6,100	6,470
h-	Min. swing radius	3,550	3,480
i-	Horizontal digging stroke at ground level	5,270	6,080
j-	Digging depth for 2.4 m (8') flat bottom	6,520	7,080
Bucket capacity ISO heaped m ³		0.80	0.70

Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 2.94 m	Long 3.50 m
Bucket digging force	143 157 *	143 157 *
Arm crowding force	102 112 *	91.8 101 *

*Power boost engaged



Dimensions

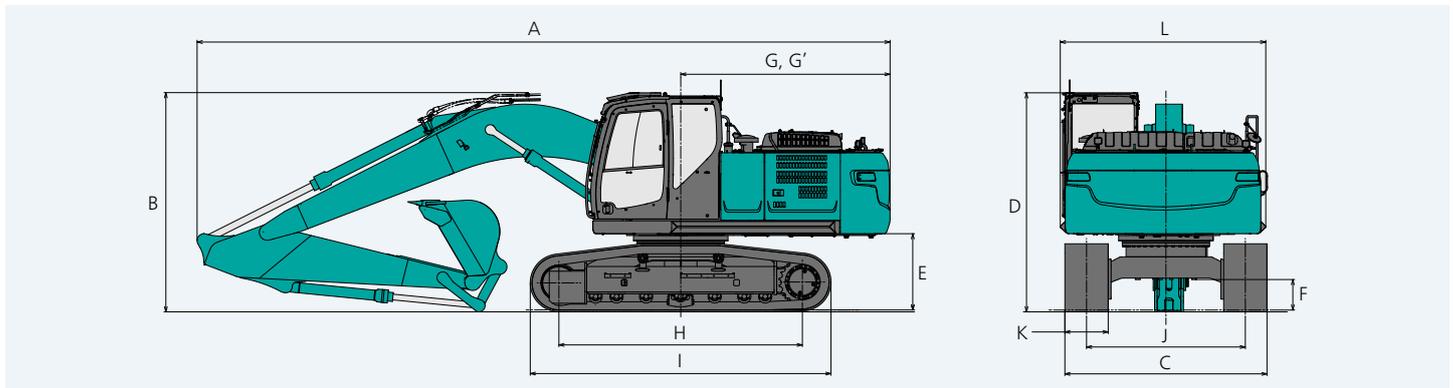
Unit: mm

Arm length		Standard 2.94m	Long 3.50m
A	Overall length	9,600	9,670
B	Overall height (to top of boom)	3,060	3,210
C	Overall width of crawler	SK200	2,800
		SK210LC	2,990
D	Overall height (to top of cab)	3,060	
E	Ground clearance of rear end*	1,060	
F	Ground clearance*	425	
G	Tail swing radius	2,910	

Unit: mm

G'	Distance from center of swing to rear end	2,900	
H	Tumbler distance	SK200	3,370
		SK210LC	3,660
I	Overall length of crawler	SK200	4,170
		SK210LC	4,450
J	Track gauge	SK200	2,200
		SK210LC	2,390
K	Shoe width	600	
L	Overall width of upper structure	2,850	

*Without including height of shoe

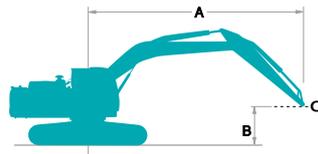


Operating weight & ground pressure

In standard trim, with standard boom, 2.94 m arm, and 0.80 m³ ISO heaped bucket

Shaped			Triple grouser shoes (even height)		
Shoe width	mm		600	700	790
Overall width of crawler	SK200	mm	2,800	2,900	2,990
	SK210LC	mm	2,990	3,090	3,180
Ground pressure	SK200	kPa	49	43	38
	SK210LC	kPa	46	40	36
Operating weight	SK200	kg	21,700	22,100	22,300
	SK210LC	kg	22,100	22,500	22,800

Lift capacities



Rating over front



Rating over side or 360 degrees

A - Reach from swing centerline to arm top
 B - Arm top height above/below ground
 C - Lift point

Relief valve setting: 37.8 MPa (385 kgf/cm²)

SK200LC		Boom: 5.65 m Arm: 2.94 m Bucket: without Counterweight: 4,300 kg Shoe: 600 mm (Heavy Lift)												
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														Radius
7.5 m	kg							*5,310	5,070			*4,270	*4,270	6.26 m
6.0 m	kg							*5,890	5,060			*3,950	3,550	7.36 m
4.5 m	kg							*6,430	4,870	5,140	3,390	*3,870	3,000	8.03 m
3.0 m	kg					*9,370	6,990	7,090	4,590	5,010	3,270	*3,940	2,730	8.38 m
1.5 m	kg					10,600	6,440	6,780	4,320	4,870	3,140	4,070	2,630	8.45 m
G.L.	kg			*6,340	*6,340	10,240	6,140	6,570	4,130	4,760	3,050	4,160	2,670	8.25 m
-1.5 m	kg	*6,710	*6,710	*11,070	*11,070	10,150	6,060	6,490	4,060	4,740	3,020	4,530	2,900	7.75 m
-3.0 m	kg	*11,730	*11,730	*14,670	11,720	10,240	6,140	6,540	4,110			5,410	3,450	6.89 m
-4.5 m	kg			*10,880	*10,880	*7,970	6,390					*5,990	4,860	5.50 m

SK200LC		Boom: 5.65 m Arm: 3.50 m Bucket: without Counterweight: 4,300 kg Shoe: 600 mm (Heavy Lift)												
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														Radius
7.5 m	kg											*3,660	*3,660	6.84 m
6.0 m	kg									*4,560	3,500	*3,450	3,200	7.86 m
4.5 m	kg							*5,860	4,940	5,180	3,430	*3,420	2,740	8.49 m
3.0 m	kg			*12,890	*12,890	*8,510	7,170	*6,780	4,650	5,030	3,290	*3,510	2,500	8.82 m
1.5 m	kg			*7,260	*7,260	*10,410	6,540	6,820	4,340	4,860	3,130	*3,730	2,400	8.89 m
G.L.	kg			*7,740	*7,740	10,260	6,140	6,560	4,110	4,730	3,010	3,810	2,430	8.70 m
-1.5 m	kg	*6,590	*6,590	*10,970	*10,970	10,070	5,980	6,430	3,990	4,660	2,940	4,100	2,600	8.22 m
-3.0 m	kg	*10,500	*10,500	*15,850	11,450	10,090	6,000	6,430	3,990			4,760	3,020	7.42 m
-4.5 m	kg	*15,600	*15,600	*12,720	11,820	*9,110	6,180	*6,440	4,150			*6,130	4,010	6.16 m

SK210LC		Boom: 5.65 m Arm: 2.94 m Bucket: without Counterweight: 4,300 kg Shoe: 600 mm (Heavy Lift)												
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														Radius
7.5 m	kg							*5,310	*5,310			*4,270	*4,270	6.26 m
6.0 m	kg							*5,890	5,550			*3,950	3,910	7.36 m
4.5 m	kg							*6,430	5,360	5,760	3,750	*3,870	3,320	8.03 m
3.0 m	kg					*9,370	7,780	*7,290	5,080	5,620	3,620	*3,940	3,030	8.38 m
1.5 m	kg					*11,060	7,210	7,680	4,800	5,480	3,490	*4,170	2,920	8.45 m
G.L.	kg			*6,340	*6,340	11,820	6,900	7,460	4,610	5,370	3,390	*4,610	2,980	8.25 m
-1.5 m	kg	*6,710	*6,710	*11,070	*11,070	*11,670	6,820	7,380	4,540	5,340	3,370	5,110	3,230	7.75 m
-3.0 m	kg	*11,730	*11,730	*14,670	13,450	*10,560	6,900	7,430	4,590			6,100	3,840	6.89 m
-4.5 m	kg			*10,880	*10,880	*7,970	7,160					*5,990	5,420	5.50 m

SK210LC		Boom: 5.65 m Arm: 3.50 m Bucket: without Counterweight: 4,300 kg Shoe: 600 mm (Heavy Lift)												
A \ B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														Radius
7.5 m	kg											*3,660	*3,660	6.84 m
6.0 m	kg									*4,560	3,860	*3,450	*3,450	7.86 m
4.5 m	kg							*5,860	5,440	*5,460	3,780	*3,420	3,040	8.49 m
3.0 m	kg			*12,890	*12,890	*8,510	7,970	*6,780	5,140	5,650	3,640	*3,510	2,780	8.82 m
1.5 m	kg			*7,260	*7,260	*10,410	7,310	7,720	4,830	5,470	3,480	*3,730	2,680	8.89 m
G.L.	kg			*7,740	*7,740	*11,550	6,900	7,450	4,590	5,340	3,350	*4,140	2,710	8.70 m
-1.5 m	kg	*6,590	*6,590	*10,970	*10,970	11,650	6,740	7,310	4,470	5,270	3,290	4,630	2,910	8.22 m
-3.0 m	kg	*10,500	*10,500	*15,850	13,180	*11,020	6,760	7,310	4,470			5,380	3,370	7.42 m
-4.5 m	kg	*15,600	*15,600	*12,720	*12,720	*9,110	6,950	*6,440	4,630			*6,130	4,480	6.16 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.
- Arm top defined as lift point.
- The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift 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 and Optional Equipment

●=Std ○=Opt — = N/A

Category	Description	SK200-11	SK210LC-11
ENGINE	YANMAR 4TN107FTT (Tier IV Final certified)	●	●
	Exhaust DOC SCR DPF system	●	●
	Alternator 24 V/80 A	●	●
	Starter motor 24 V/5 kW	●	●
	Batteries 2 x 12 V (130 Ah)	●	●
	Fan suction type cooling system	●	●
	Auto deceleration function	●	●
	Auto idle stop (AIS)	●	●
HYDRAULIC SYSTEM	3 work modes H, S, Eco	●	●
	Power boost (37.8 MPa {385 kgf/cm ² })	●	●
	Heavy lift mode	●	●
	Pressure release function	●	●
	Independent travel function	●	●
	Auto warm up system	●	●
	Proportional Hand Control (for E&N&B piping)	●	●
	Proportional Hand Control (for Extra piping)	●	●
	Hydraulic oil VG46	●	●
	PIPING	BAS + E & N&B piping	●
Extra piping		●	●
QH piping		●	●
CABIN	Air suspension seat with heating	●	●
	10 inch colour monitor	●	●
	LED door light	●	●
	Air-conditioner	●	●
	Radio (FM/AM & AUX & USB & Bluetooth® & hands free telephone)	●	●
	Harness for CAB four lights and CAB yellow flasher	●	●
	Intermittent windshield wiper	●	●
	12 V power outlet	●	●
	Rain visor	○	○
	Front roll screen	●	●
LIGHTS	LED work lights ; 2 on boom, 1 on upper frame, 2 on rear counterweight	●	●
WORKING EQUIPMENT	Standard boom (5.65 m)	●	●
	Standard HD arm (2.94 m) with rock guard	●	●
	Long HD arm (3.50 m) with rock guard	○	○
COUNTERWEIGHT	Semi heavier CW (TTL 4,300 kg) with swing flasher	●	●
UNDERCARRIAGE	600 mm steel shoe	●	●
	700 mm steel shoe	○	○
	790 mm steel shoe	○	○
	Track guide (one per side)	●	●
	Additional track guides (two additional per side)	●	●
	Lower frame guard	●	●
SAFETY	Engine emergency stop switch	●	●
	Pump emergency mode (KPSS release switch)	●	●
	Emergency accel dial	●	●
	Emergency manual valve for lowering attachment	●	●
	ROPS compliant CAB (ISO 12117-2:2008)	●	●
	OPG Level II top guard (ISO 10262;1998)	●	●
	OPG Level II front guard (ISO 10262;1998)	○	○
	Eagle-eye view camera (Rear, Right, Left)	●	●
	Seatbelt indicator on display	●	●
	Travel alarm	●	●
OTHERS	Refueling pump	○	○
	Harness for engine room light	●	●
	RAL color	○	○
	GEOSCAN	●	●

Note: Bluetooth® is a registered trademark of the Bluetooth SIG Inc.

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Tokyo, JAPAN
www.kobelcocm-global.com



Enquiries To: