KOBELCO

SK210HLC SK210HNLC

KOBELCO

SK210HLC-10E/SK210HNLC-10E

Bucket Capacity:

0.7 - 0.93 m³

Engine Power:

124 kW / 2,000 min⁻¹

Operating Weight:
22,100 - 23,100 kg

GNABROD



IIII SK210H

GTA BRID



Power Meets Efficiency

In 2006, KOBELCO developed the world's first hybrid machine full hydraulic excavator in the history of hydraulic excavators. The forerunner of the hybrid machine full hydraulic excavators was the SK80H. Then, its 20-ton class successor, the SK200H-9, achieved overwhelmingly great fuel efficiency, creating a strong image of 'fuel-efficient KOBELCO excavators'. The SK210HLC-10E, the latest model, is equipped with not only the hybrid technology developed and nurtured by KOBELCO but also a large-capacity lithium-ion battery for the first time in the industry. The technology of KOBELCO which knows hybrid machines well has enabled a compact but high-power assist, evolving its hybrid machines into 'genuine hybrid machines' in terms of fuel efficiency and productivity. Furthermore, the SK210HLC-10E is equipped with newly designed extra durable devices to maintain its value. To the new stage. The hybrid machines of KOBELCO greatly exceed the hybrid standards that KOBELCO has established.

Higher fuel efficiency means 'Efficiency'

mannin

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Increase in productivity means 'Power'



JAPANESE QUALITY

Into the era of 'genuine hybrid machines'



High-output engine

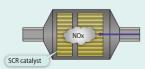
Equipped with an Exhaust Gas After-Treatment System and an SCR*1 System with a DEF/Urea **NEW**

The engine exhaust system has an SCR system with a DEF/Urea that converts NOx^{*2} emissions into harmless nitrogen and water. Combining this system with an exhaust gas after-treatment system that captures and disposes of PM^{*3}, the SK210HLC has a much cleaner exhaust.

Nox reduction rate (compared to the conventional model)

About **88%** decrease

*1 SCR : Selective Catalytic Reduction
*2 NOx: Nitrogen Oxide
*3 PM: Particulate Matter







Reduces Fuel Consumption and Minimizes Exhaust Emissions

EGR Cooler Reduces NOx

Cooled exhaust gases from the EGR cooler are mixed with fresh air in the intake. The recirculated air lowers the combustion temperature, which reduces NOx.

VG Turbo Reduces PM

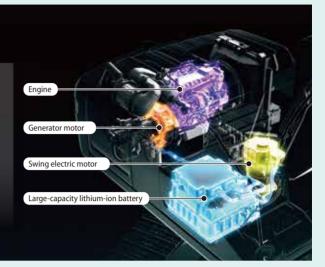
The variable-geometry turbocharger adjusts air intake to maximize combustion efficiency. At low engine speeds, the nozzles are closed, the turbo speed increased, and air intake is boosted. This helps lower fuel consumption.

Common Rail Fuel Injection System Reduces PM

The higher injection pressure atomizes the fuel. The combustible fuel and the improved injection timing accuracy enhance the combustion efficiency, which also contributes to the reduction of fuel consumption.

New Hybrid System

KOBELCO's original hybrid system has further evolved. The newly adopted swing electric motor provides operability unique to a hybrid machine. Furthermore, the large generator motor driven by the large-capacity lithium-ion battery constantly assists the engine, greatly reducing the engine load. The new hybrid system effectively supports fuel efficiency and power for swing, digging, and traveling, thus realising a workload which far exceeds that of conventional machines.



Adoption of a lithium-ion battery for the first time in the industry **NEW**

times higher

Nickel-metal hydride battery

(SK80H-2)

The adoption of the large-capacity lithium-ion battery reduces the size and provides mass energy storage at the same time. The battery continuously assists the hybrid machine.

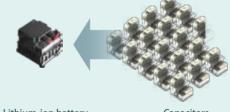


(compared to the power generated by the nickel-metal hydride batteries used in the 5K80H-2)



Lithium-ion battery (SK210HLC-10E) Runtime **17.6** times longer

(compared to that of the capacitors used in the SK200H-9)



Lithium-ion battery (SK210HLC-10E) Capacitors (SK200H-9)

Independent swing electric system enable good operability for combined operation of swing and attachment **NEW**

During swing acceleration

The swing motor is only powered by electricity accumulated in the lithium-ion battery.

During swing deceleration

The braking energy generated during swing deceleration is converted into electricity, and then the electricity is accumulated in the lithium-ion battery.



During swing acceleration
During swing deceleration

While the machine is digging or traveling, an assist from the generator motor greatly reduces the engine load **(NEW)**

During high-load operation

Assisting the engine by adding up to 25 kW

The power of the generator motor has increased to 25 kW (equivalent to the power output of the engine of a 5-ton class excavator). The electricity accumulated in the lithium-ion battery allows the generator motor to assist the engine.

Thus, fuel consumption is reduced.

During low-load operation

The engine power is used to generate electricity in the generator motor. And then, the electricity is accumulated in the lithium-ion battery. Digging and traveling are done hydraulically.

*The warranty period of the battery, swing motor, generator motor and inverter of the hybrid system is 5 years or 10,000 hours.



During low-load operation

More Power and **Higher Efficiency**

The combination of the hybrid system and a new hydraulic system realizes low fuel consumption and high efficiency at the same time. We promise you an increase in production volume with the most advanced technologies.

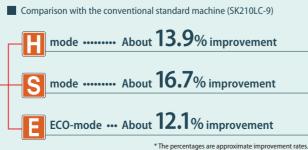


Higher fuel efficiency means 'Efficiency' ER

In Pursuit of Improved Fuel Efficiency

Fuel Efficiency

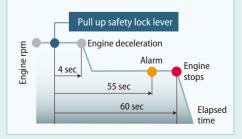
H-mode, S-mode and ECO-mode are fuel efficiency modes in which fuel consumption is reduced in comparison with the previous standard model.



AIS (Auto Idle Stop)

If the boarding/disembarking lever is left up, the engine will stop automatically. This eliminates wasteful idling during standby, saving fuel

and reducing CO2 emissions as well.

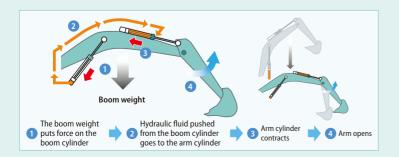




Hydraulic System: Revolutionary Technology Saves Fuel

Arm Interflow System **NEW**

When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.

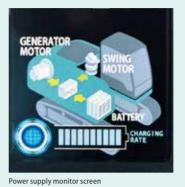


Operator-friendly Features Include Controls that Are Easy to See, Easy to Use _____

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13124 4.7 100 Mole 220 100 Mole 200 100

Nibbler mode



Breaker mode

Multi-Display in Color

Brilliant colors and graphic displays are easy to recognize on the LCD multi-display in the console. The display shows fuel consumption, maintenance intervals, and more.

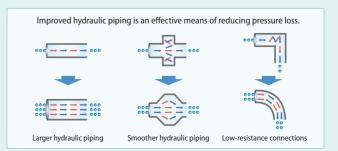
- Analog gauge provides an intuitive reading of fuel level and engine water temperature
- Q Green indicator light shows low fuel consumption during operation
- PM accumulation display (left)/Urea level gauge (right)
- 4 Switches between power supply monitor, fuel consumption, and rear view camera image
- Oigging mode switch
- 6 Monitor display switch

One-Touch Attachment Mode Switch

A simple flick of a switch converts the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.

Hydraulic circuit reduces energy loss

We have made every effort to enhance fuel efficiency by minimizing hydraulic pressure resistance, improving the hydraulic line layout to control friction resistance loss and minimizing valve resistance.





KOBELCO MONITORING EXCAVATOR SYSTEM



Direct Access to Operational Status

Location Data

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





Perced 11 Apr. 2015	10 May 2015	Search	
Type of Operation	Working Hrs		Ratio
Total Working Hrs		169.14%	100 %
Digging Hrs	100	72.2 Hrs	43 %
Traveling Hrs		18.3 Hrs	11.94
Idle Hrs		15.9 Hrs	0.54
Opt Att Hrs		62.5 Hrs	37 %
Crane Mode Hrs		0 Hrs	0.%

Latest location

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.

eriod 11 Apr. 3	2015		- 22	to	10 May	, 2019		٠
Asplay time 🔍	Auto	• «n	•	2.6	• 24	h.	5.00	
Date / Time		6	,		9	10	14	
							select	
11 Apr (Sat)								
L2 Apr (Sun)			Ш		ПΠ			
L3 Apr (Mon)			111		1111		TH I	
14 Apr (Tue)								
							++++1	

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

Working Hrs

2:06

0:00

169:19

171:25

Work mode

H mode

S mode

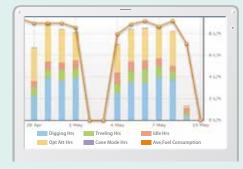
E mode

TOTAL

Fuel consumption

Graph of Work Content

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



Work status

Total Fuel

Consumption

24.5 L

0.0 L

1489.7 L

1514.2 L

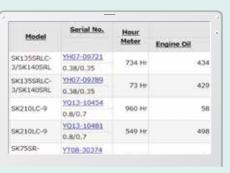
Maintenance Data and Warning Alerts

Machine Maintenance Data

Daily report

• 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.



Warning Alerts

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

Maintenance

Alarm Information Can Be Received through E-mail

Alarm information or maintenance notice can be received through E-mail, using a computer or cell phone.



Daily/Monthly Reports

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

Alarm messages can be received on mobile device.

Security System

Engine Start Alarm

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

Setting Condition		
Setting Condition Change		
Start time 20 • : 00 •		
Release time 07 💌 : 00 💌	1	
No Working Whole Day		
Mon Tue Wed Thu Fri Set Sun		
	Clear	

Area Alarm

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

Around the current (latest) location	1] Km
Tinput Latitude and La		
Latitude1		
Longitude1		
Latitude2		
Longitude2		
Мар	Clear	

Alarm for outside of reset area

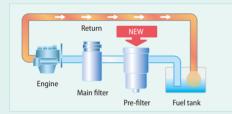


Improved Filtration System Reliability

Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance. The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

Fuel Filter

The pre-filter, with built-in water separator, maximizes filtering performance.



Double-Element Air Cleaner

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



Hydraulic Fluid Filter

Recognized as the best in the industry, our super-fine filter separates out even the smallest particles. The new cover prevents contamination when changing filters.



Hydraulic Fluid Filter Clog Detector

Pressure sensors at the inlet and outlet of the hydraulic fluid

of clogging. If the difference in pressure exceeds a

reaches the hydraulic fluid reservoir.

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

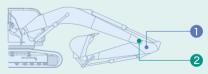
Highly Durable Super-fine Filter

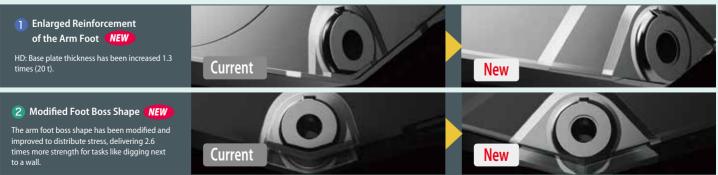
The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability.



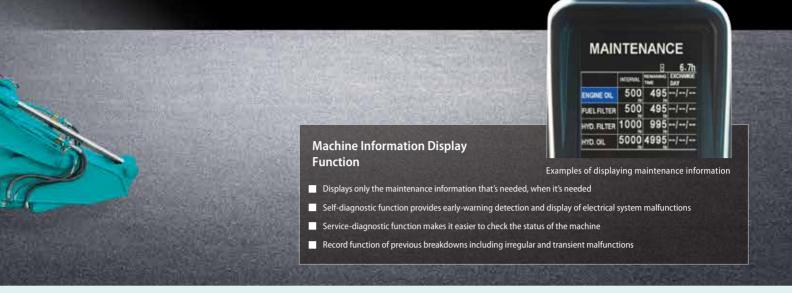
Built to Operate in Tough Working Environments

The attachment has been reinforced to handle a higher work volume, with greater power and excellent durability that can withstand demanding work conditions.





Efficient Maintenance Keeps the Machine in Peak Operating Condition



Easy, On-the-Spot Maintenance (NEW

There is ample space in the engine compartment for a mechanic to do maintenance work inside. The distance between steps is lower so entry and exit is easier. And the mechanic can work in comfort, without contortions or unnatural body positions. Finally, the hood is lighter and easier to raise and lower.





Step/Hand rail



Positioned where the step opens

Maintenance Work, Daily Checks, Etc., Can Be Done from Ground Level

The layout allows for easy access from the ground for many daily checks and regular maintenance tasks



Laid out for easy access to radiator and cooling system elements.

More Efficient Maintenance Inside the Cab



Internal and external air conditioner filters can be easily removed without tools for cleaning.



If the monitor warning goes off, the filter should be reactivated manually using a switch.

Easy Cleaning



Special crawler frame design is easily cleaned of mud.



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



Engine oil pan equipped with a drain valve.

Comfortable Cab Is Now Safer than Ever

A work environment that is quieter and more comfortable. A cab that puts the operato<u>r fi</u>rst is key to improved safety.

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KOBELCO

Super-Airtight Cab



The high level of air-tightness keeps dust out of the cab.

Quiet Inside

The high level of air-tightness ensures a quiet, comfortable cabin interior.

Low Vibration

Coil springs absorb small vibrations, and high suspension mounts filled with silicone oil reduce heavy vibration. The long stroke achieved by this system provides excellent protection from vibration.

Twice the stroke of a conventional mount

Broad View Liberates the Operator

The front window features one large piece of glass without a center pillar on the right side for a wide, unobstructed view.

Air Conditioner Register behind the Seat (NEW)



The large air-conditioner has registers on the back pillars that blow from behind and to the right and left of the operator's seat. They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable operating environment.

More Comfortable Seat Means Higher Productivity



Interior Equipment Adds to Comfort and Convenience







Large Cab Is Easy to Get in and out of

The expanded cab provides plenty of room for a large door, more headroom and smoother entry and exit.

Safety

ROPS Cab

ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.





TOP Guard is fitted as standard.

Expanded Field of View for Greater Safety





Right Side Camera Fitted as Standard

Further to the existing rear-view camera, a camera for the right side is fitted as standard for easy safety checks all round the machine.





Rear view shows the area directly behind the cab.



Specifications



Engine

Model	J05EVA-KSDM
Туре	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders	4
Bore and stroke	112 mm x 130 mm
Displacement	5.123 L
Rated power output	119 kW/2,000 min ⁻¹ (ISO 9249)
	124 kW/2,000 min ⁻¹ (ISO 14396)
Max torque	640 N·m/1,600 min ⁻¹ (ISO 9249)
Max. torque	660 N·m / 1,600 min ⁻¹ (ISO 14396)

Hybrid System Unit

Main power supply	Туре	Lithium-ion battery
	Voltage	567 V
	Туре	Three-phase AC synchronous permanent
Generator motor		magnet type
	Voltage	25 kW / 1,880 min ⁻¹
Swing motor	Туре	Three-phase AC synchronous permanent
		magnet type
	Voltage	26 kW / 3,600 min ⁻¹

Hydraulic System

Pump		
Туре	Two variable displacement pumps + one gear pump	
Max. discharge flow	2 x 245 L/min, 1 x 21 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 }	
Control circuit	5.0 MPa {50 kgf/cm ² }	
Pilot control pump	Gear type	
Main control valve	8-spool	
Oil cooler	Air cooled type	

Swing System

Parking brake	Wet multiple plate operated automatically
Swing speed	12.7 min ⁻¹ {rpm}
Swing torque	71.5 kN·m
Tail swing radius	2,910 mm
Min. front swing radius	3,550 mm

Attachments

Backhoe bucket and combination

Туре		Backhoe bucket		
Bucket capacity	SAE heaped m ³ (cu yd)	0.70 (0.92)	0.80 (1.05)	
	SAE Struck m ³ (cu yd)	0.52 (0.68)	0.59 (0.77)	
Opening width	With side cutter mm	1,080	1,160	
	Without side cutter mm	980	1,140	
No. of teeth		5	5	
Can be turned over	2.4 m/3.5 m arm	Yes	Yes	
	2.94 m arm	No	No	
Bucket weight	kg	630	660	
Combination	2.4 m short arm	0	0	
	2.94 m standard arm	0	0	
	3.5 m long arm	0	\bigtriangleup	



Travermotors	2 x axial-pistoli, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	49 each side
Travel speed	6.0/3.6 km/h
Drawbar pulling force	227 kN (ISO 7464)
Gradeability	70 % {35°}

Cab & Control

Cab

Operator

All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil and equipped with a heavy, insulated floor mat. Two hand levers and two foot pedals for travel Two hand levers for excavating and swing Electric rotary-type engine throttle External 100 dB(A) (ISO 6395)

66 dB(A) (ISO 6396)



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	320 L
Cooling system	19 L
Engine oil	20.4 L
Travel reduction gear	2 x 5 L
Swing reduction gear	5 L
Hydraulic oil tank	140 L tank oil level
	244 L hydraulic system
DEF/Urea tank	34 L



Working Ranges

			Unit: m
Boom		5.65 m	
Arm	Short	Standard	Long
Range	2.4 m	2.94 m	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	3.55	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 ISO heaped m ³	0.93	0.8	0.7

Digging Force (ISO 6015)

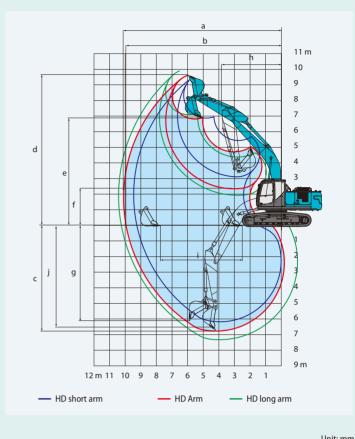
Digging Force (ISO 6015) Unit: kN											
Arm length	Short	Standard	Long								
	2.4 m	2.94 m	3.5 m								
Bucket digging force	143	143	143								
	157*	157*	157*								
Arm crowding force	121	102	91.8								
	133*	112*	101*								

*Power Boost engaged.

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Dimensions

Ar	m length		Short 2.4 m	Standard 2.94 m	Long 3.5 m			
А	Overall length	9,680	9,680 9,600 9,					
В	Overall height (to top of boom)		3,200	3,030	3,210			
c	Overall width of crawler	SK210HLC						
C	overall width of clawler	SK210HNLC		2,800				
D	Overall height (to top of cab)		3,060					
Е	Ground clearance of rear end*	1,060						
F	Ground clearance*	450						



L

K210HLC-10E

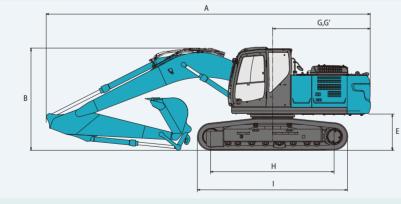
			Unit: mm			
G	Tail swing radius		2,910			
G'	Distance from center of swing to r	ear end	2,900			
Н	Tumbler distance	3,660				
Т	Overall length of crawler	4,450				
	Track gauge	SK210HLC	2,390			
J	Track gauge	SK210HNLC	2,200			
Κ	Shoe width	600				
L	Overall width of upperstructure	2,710				

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*Without including height of shoe

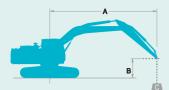


Operating Weight & Ground Pressure In standard trim, with standard boom, 2.94 m arm, and 0.8 m³ ISO heaped bucket

Shaped			Triple grouser shoes (even height)								
Shoe width		mm	600	700	790	900*					
Overall width of crawler	SK210HLC	mm	2,990	3,090	3,180	3,290					
Overall width of crawler	SK210HNLC	mm	2,800	2,900	2,990	—					
Correct and a second	SK210HLC	kPa	49	43	39	34					
Ground pressure	SK210HNLC	kPa	49	43	39	_					
On emotion examinated	SK210HLC	kg	22,100	22,600	22,800	23,100					
Operating weight	SK210HNLC	kg	22,100	22,500	22,800	_					

*Only for LC version

Lift Capacities



Rating over front

A: Reach from swing centerline to arm top B: Arm top height above/below ground C: Lifting capacities in Kilograms Bucket: Without bucket Relief valve setting: 37.8 MPa (385 kgf/cm²)

SK210HLC		Boom: 5.65	m Arm: 2.9	94 m Bucke	t: without	Shoe: 600 mn	n (Heavy Lift)							
		1.5	i m	3.0	3.0 m		m	6.0	m	7.5	m	At Max	. Reach	
в			₫-	L			₫-	ł	,	ł	-	L	₫-	Radius
7.5 m	kg							*5,320	*5,320			*4,280	*4,280	6.26 m
6.0 m	kg							*5,900	5,440			*3,960	3,830	7.36 m
4.5 m	kg							*6,440	5,250	5,660	3,670	*3,870	3,250	8.03 m
3.0 m	kg					*9,380	7,620	*7,300	4,970	5,530	3,550	*3,950	2,960	8.38 m
1.5 m	kg					*11,070	7,050	7,550	4,700	5,380	3,410	*4,180	2,860	8.45 m
G.L.	kg			*6,350	*6,350	11,610	6,740	7,330	4,510	5,270	3,310	4,600	2,910	8.25 m
-1.5 m	kg	*6,710	*6,710	*11,070	*11,070	11,510	6,660	7,240	4,430	5,250	3,290	5,020	3,160	7.75 m
-3.0 m	kg	*11,740	*11,740	*14,690	13,150	*10,580	6,740	7,300	4,480			5,990	3,750	6.89 m
-4.5 m	kg			*10,900	*10,900	*7,990	7,000					*6,010	5,300	5.50 m

SK210HLC		Boom: 5.65	m Arm: 3.5	5 m Bucket:	without Sł	noe: 600 mm	(Heavy Lift)							
		1.5 m		3.0	3.0 m		m	6.0	m	7.5	m	At Max	. Reach	
в		ŀ		L		ŀ	—	L	₫-	ł		ŀ	₫	Radius
7.5 m	kg											*3,670	*3,670	6.84 m
6.0 m	kg									*4,570	3,770	*3,460	3,450	7.86 m
4.5 m	kg							*5,860	5,320	*5,460	3,690	*3,420	2,960	8.49 m
3.0 m	kg			*12,890	*12,890	*8,510	7,790	*6,780	5,020	5,540	3,550	*3,520	2,710	8.82 m
1.5 m	kg			*7,270	*7,270	*10,410	7,140	7,570	4,710	5,370	3,390	*3,740	2,610	8.89 m
G.L.	kg			*7,750	*7,750	*11,540	6,720	7,300	4,470	5,230	3,260	*4,140	2,640	8.70 m
-1.5 m	kg	*6,590	*6,590	*10,980	*10,980	11,410	6,560	7,170	4,350	5,160	3,200	4,530	2,830	8.22 m
-3.0 m	kg	*10,500	*10,500	*15,850	12,840	*11,020	6,580	7,160	4,350			5,270	3,280	7.42 m
-4.5 m	kg	*15,610	*15,610	*12,720	*12,720	*9,110	6,770	*6,440	4,510			*6,130	4,360	6.16 m

SK210HLC		Boom: 5.65	m Arm: 2.4	m Bucket:	without S	hoe: 600 mm	(Heavy Lift)					
\sim		3.0)m	4.5	m	6.0	m	7.5	m	At Max	. Reach	
В			₫-	L			-	L		ł	-	Radius
7.5 m	kg									*6,340	5,990	5.58 m
6.0 m	kg					*6,490	5,350			*5,770	4,310	6.80 m
4.5 m	kg			*8,280	8,070	*6,950	5,170	5,600	3,610	5,570	3,590	7.52 m
3.0 m	kg			*10,120	7,440	*7,720	4,910	5,500	3,520	5,070	3,250	7.89 m
1.5 m	kg			*11,550	6,940	7,500	4,670	5,380	3,420	4,920	3,130	7.97 m
G.L.	kg			11,580	6,730	7,330	4,510	5,310	3,350	5,070	3,210	7.75 m
-1.5 m	kg	*11,460	*11,460	*11,420	6,710	7,290	4,480			5,610	3,540	7.22 m
-3.0 m	kg	*13,180	*13,180	*9,900	6,850	*7,210	4,600			*6,610	4,340	6.29 m
-4.5 m	kg			*6,250	*6,250					*5,720	*5,720	4.72 m

SK210HNLC		Boom: 5.65 m Arm: 2.94 m Bucket: without Shoe: 600 mm (Heavy Lift)												
		1.5	m	3.0	m	4.5	m	6.0	m	7.5	i m	At Max	. Reach	
в		ŀ			₫—		—	L		ł	₩-	L		Radius
7.5 m	kg							*5,320	5,020			*4,280	*4,280	6.26 m
6.0 m	kg							*5,900	5,010			*3,960	3,510	7.36 m
4.5 m	kg							*6,440	4,820	5,650	3,360	*3,870	2,980	8.03 m
3.0 m	kg					*9,380	6,930	*7,300	4,550	5,510	3,240	*3,950	2,700	8.38 m
1.5 m	kg					*11,070	6,380	7,530	4,280	5,370	3,110	*4,180	2,600	8.45 m
G.L.	kg			*6,350	*6,350	11,590	6,080	7,310	4,090	5,260	3,020	4,590	2,650	8.25 m
-1.5 m	kg	*6,710	*6,710	*11,070	*11,070	11,490	6,000	7,230	4,020	5,240	2,990	5,010	2,870	7.75 m
-3.0 m	kg	*11,740	*11,740	*14,690	11,600	*10,580	6,070	7,280	4,070			5,980	3,420	6.89 m
-4.5 m	kg			*10,900	*10,900	*7,990	6,330					*6,010	4,820	5.50 m



SK210HNLC		Boom: 5.65 m Arm: 3.5 m Bucket: without Shoe: 600 mm (Heavy Lift)												
		1.5	i m	3.0 m		4.5	m	6.0	m	7.5	i m	At Max	. Reach	
В						ł		ł		L L		L L	-	Radius
7.5 m	kg									*4,570	3,460	*3,670	*3,670	6.84 m
6.0 m	kg									*5,460	3,390	*3,460	3,170	7.86 m
4.5 m	kg							*5,860	4,890	5,530	3,250	*3,420	2,710	8.49 m
3.0 m	kg			*12,890	*12,890	*8,510	7,090	*6,780	4,590	5,350	3,090	*3,520	2,470	8.82 m
1.5 m	kg			*7,270	*7,270	*10,410	6,460	7,550	4,290	5,210	2,960	*3,740	2,370	8.89 m
G.L.	kg			*7,750	*7,750	*11,540	6,060	7,290	4,060	5,150	2,900	*4,140	2,390	8.70 m
-1.5 m	kg	*6,590	*6,590	*10,980	*10,980	11,380	5,900	7,150	3,940			4,520	2,570	8.22 m
-3.0 m	kg	*10,500	*10,500	*15,850	11,300	*11,020	5,920	7,150	3,940			5,260	2,980	7.42 m
-4.5 m	kg	*15,610	*15,610	*12,720	11,660	*9,110	6,100	*6,440	4,100			*6,130	3,960	6.16 m

SK210HNLC	-	Boom: 5.65	m Arm: 2.4	m Bucket:	without S	hoe: 600 mm	(Heavy Lift)					
\sim		3.0	m	4.5	m	6.0	m	7.5	m	At Max	. Reach	
в		ł		ł				ł		ł		Radius
7.5 m	kg									*6,340	5,510	5.58 m
6.0 m	kg					*6,490	4,920			*5,770	3,960	6.80 m
4.5 m	kg			*8,280	7,370	*6,950	4,750	5,580	3,310	5,550	3,290	7.52 m
3.0 m	kg			*10,120	6,750	*7,720	4,490	5,490	3,220	5,060	2,970	7.89 m
1.5 m	kg			*11,550	6,270	7,490	4,250	5,370	3,120	4,910	2,860	7.97 m
G.L.	kg			11,560	6,060	7,310	4,100	5,300	3,050	5,060	2,920	7.75 m
-1.5 m	kg	*11,460	*11,460	*11,420	6,050	7,280	4,070			5,600	3,220	7.22 m
-3.0 m	kg	*13,180	*11,810	*9,900	6,180	*7,210	4,180			*6,610	3,960	6.29 m
-4.5 m	kg			*6,250	*6,250					*5,720	*5,720	4.72 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.

3. Arm top defined as lift point.

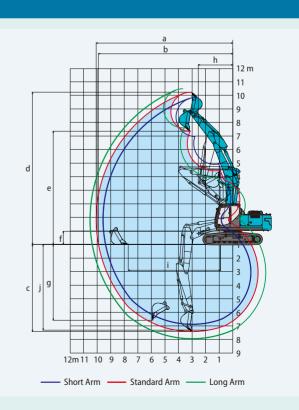
4. The above lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic

2 Piece Boom Specifications

Working Ranges			Unit: m				
Boom	3.16 m + 2.63 m						
Arm	Short 2.4 m	Standard 2.94 m	Long 3.5 m				
a-Max. digging reach	9.57	10.07	10.53				
b-Max. digging reach at ground level	9.39	9.9	10.37				
c-Max. digging depth	5.89	6.42	6.93				
d-Max. digging height	10.83	11.23	11.5				
e-Max. dumping clearance	7.95	8.35	8.62				
f-Min. dumping clearance	1.51	0.97	0.41				
g-Max. vertical wall digging depth	5.08	5.58	6.02				
h-Min. swing radius	2.76	2.55	2.72				
i-Horizontal digging stroke at ground level	5.77	6.8	7.8				
j-Digging depth for 2.4 m (8') flat bottom	5.78	6.31	6.83				
Bucket capacity ISO heaped m ³	0.93	0.8	0.7				
bucket capacity iso neaped in	0.00	0.0	0.7				

Digging Force (ISO 6015) Unit: kh										
Arm length	Short	Standard	Long							
	2.4 m	2.94 m	3.5 m							
Bucket digging force	143	143	143							
	157*	157*	157*							
Arm crowding force	121	102	91.8							
	133*	112*	101*							

*Power Boost engaged.



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.
- 6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Lift Capacities

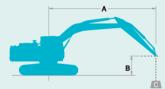
Dimensions

Ar	m length		Short 2.4 m	Standard 2.94 m	Long 3.5 m			
А	Overall length		9,760	9,740	9,730			
В	Overall height (to top of boom)	3,030	3,030 2,970 3,280					
C	Overall width of crawler		2,990					
C	overall width of crawler		2,800					
D	Overall height (to top of cab)		3,060					
Е	Ground clearance of rear end*	1,060						
F	Ground clearance*		450					
G	Tail swing radius		2,910					
G'	Distance from center of swing to re	ear end	2,900					
Н	Tumbler distance			3,660				
Т	Overall length of crawler			4,450				
J	Track gauge	SK210HLC	2,390					
,	Hack gauge	SK210HNLC		2,200				
К	Shoe width	600						
L	Overall width of upperstructure	2,710						
		*Withou	ut including h	eight of sho				

Operating Weight & Ground Pressure In standard trim, with two piece boom, 2.94 m arm, and 0.8 m³ ISO heaped bucket

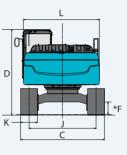
Shape			Triple grouser shoes (even height)						
Shoe width	mm		600	700	790	900*			
Overall width	mm	SK210HLC	2,990	3,090	3,180	3,290			
	mm	SK210HNLC	2,800	2,900	2,990	-			
Ground pressure	kPa	SK210HLC	52	45	41	36			
Ground pressure	۳d	SK210HNLC	52	45	41	-			
Operating weight	ka	SK210HLC	23,100	23,500	23,700	24,000			
Operating weight	kg	SK210HNLC	23.000	23,400	23,700	-			







А G G′ В *E Н Ι



A: Reach from swing centerline to arm top B: Arm top height above/below ground C: Lifting capacities in Kilograms Bucket: Without bucket Relief valve setting: 37.8 MPa (385 kgf/cm²)

SK210HLC		Boom: 2 p	iece boom	Arm: 2.94 m Bucket: without Shoe: 600 mm (Heavy Lift)											
		1.5	5 m	3.0 m		4.5	m	6.0	m	7.5	m	At Max	Reach		
В		H	₫		₫—	L		L		H	₫—	ŀ	₫—	Radius	
9.0 m	kg					*5,890	*5,890					*4,940	*4,940	4.74 m	
7.5 m	kg					*6,780	*6,780	*5,690	5,430			*4,050	*4,050	6.49 m	
6.0 m	kg					*6,880	*6,880	*4,630	*4,630	*4,110	3,600	*3,710	3,540	7.55 m	
4.5 m	kg			*10,470	*10,470	*9,190	8,200	*7,640	5,160	*4,830	3,550	*3,590	3,000	8.21 m	
3.0 m	kg	*31,530	*31,530	*16,390	14,190	*10,820	7,420	7,780	4,820	*4,790	3,400	*3,620	2,720	8.55 m	
1.5 m	kg			*17,880	12,650	*11,570	6,740	7,410	4,490	*5,150	3,240	*3,780	2,620	8.62 m	
G.L.	kg	*19,960	*19,960	*14,880	12,260	*11,210	6,390	7,160	4,270	5,140	3,130	*4,120	2,670	8.42 m	
-1.5 m	kg			*10,010	*10,010	*9,840	6,310	7,070	4,190	5,120	3,110	*4,700	2,900	7.93 m	
-3.0 m	kg			*8,610	*8,610	*7,450	6,430	*5,650	4,260			*3,790	3,460	7.10 m	
-4.5 m	kg			*11,930	*11,930	*6,740	*6,740					*1,830	*1,830	5.76 m	

SK210HLC		Boom: 2	piece boor	n Arm: 3.	5 m Buck	et: without	Shoe: 60	0 mm (Hea	vy Lift)							
\sim	А	1.5	m	3.0	m	4.	5 m	6	.0 m	7.	5 m	9.0	m	At Max.	Reach	
в		ł	₫—	L	₫—	ł	₫—	ł	₫—	ł		ł	₫—	ł	₫—	Radius
9.0 m	kg					*5,760	*5,760							*4,040	*4,040	5.53 m
7.5 m	kg							*4,900	*4,900					*3,480	*3,480	7.09 m
6.0 m	kg							*5,910	5,510	*4,470	3,690			*3,250	3,180	8.07 m
4.5 m	kg					*6,920	*6,920	*6,890	5,260	*4,160	3,590			*3,190	2,720	8.69 m
3.0 m	kg	*27,470	*27,470	*15,760	14,850	*10,230	7,640	*7,820	4,890	*4,080	3,420	*3,350	2,480	*3,240	2,480	9.01 m
1.5 m	kg	*18,260	*18,260	*17,860	12,960	*11,290	6,860	7,450	4,520	*4,420	3,230	*3,910	2,410	*3,410	2,380	9.08 m
G.L.	kg	*19,140	*19,140	*6,710	*6,710	11,350	6,390	7,140	4,250	5,100	3,080			*3,720	2,400	8.89 m
-1.5 m	kg			*10,000	*10,000	*10,410	6,220	6,990	4,110	5,030	3,020			*4,230	2,580	8.43 m
-3.0 m	kg			*10,680	*10,680	*8,440	6,260	*6,400	4,120	*4,310	3,070			*4,010	3,000	7.65 m
-4.5 m	kg			*14,580	13,060	*5,140	*5,140	*4,510	4,330					*2,720	*2,720	6.43 m



SK210HLC		Boom: 2 p	iece boom	Arm: 2.40 m	Bucket: wit	hout Shoe:	600 mm (He	avy Lift)						
		1.5 m		3.0	m	4.5	m	6.0	m	7.5	m	At Max.	. Reach	
В		ł	₫-			L		L	—	ł	₫—	ŀ	—	Radius
9.0 m	kg											*7,980	*7,980	3.73 m
7.5 m	kg					*8,840	8,750					*6,070	5,530	5.80 m
6.0 m	kg					*9,010	8,550	*5,600	5,280			*5,140	4,000	6.97 m
4.5 m	kg			*14,160	*14,160	*10,120	7,970	*4,780	*4,780	*5,250	3,490	*4,730	3,330	7.68 m
3.0 m	kg			*15,820	14,220	*11,260	7,200	7,690	4,740	5,410	3,370	*4,590	3,000	8.05 m
1.5 m	kg			*17,910	12,820	11,600	6,610	7,360	4,450	5,260	3,240	*4,660	2,890	8.12 m
G.L.	kg	*25,340	*25,340	*15,680	12,390	*10,810	6,390	7,160	4,280	5,180	3,170	4,820	2,960	7.91 m
-1.5 m	kg			*9,830	*9,830	*9,070	6,390	*7,040	4,250			*4,820	3,270	7.39 m
-3.0 m	kg					*6,260	*6,260	*4,600	4,390			*3,560	*3,560	6.48 m

SK210HNLC	OHNLC Boom: 2 piece boom			Arm: 2.94 m Bucket: without Shoe: 600 mm (Heavy Lift)										
\sim		1.5	5 m	3.0	m	4.5	m	6.0	m	7.5	m	At Max	. Reach	
в		ł			₫-	ł		ł		L	₫—	ł		Radius
9.0 m	kg					*5,890	*5,890					*4,940	*4,940	4.74 m
7.5 m	kg					*6,780	*6,780	*5,690	4,980			*4,050	*4,050	6.49 m
6.0 m	kg					*6,880	*6,880	*4,630	*4,630	*4,110	3,280	*3,710	3,230	7.55 m
4.5 m	kg			*10,470	*10,470	*9,190	7,470	*7,640	4,720	*4,830	3,240	*3,590	2,720	8.21 m
3.0 m	kg	*31,530	*31,530	*16,390	12,550	*10,820	6,710	7,760	4,380	*4,790	3,090	*3,620	2,460	8.55 m
1.5 m	kg			*17,880	11,090	*11,570	6,050	7,390	4,060	*5,150	2,940	*3,780	2,360	8.62 m
G.L.	kg	*19,960	*19,960	*14,880	10,710	*11,210	5,710	7,140	3,850	5,130	2,820	*4,120	2,410	8.42 m
-1.5 m	kg			*10,010	*10,010	*9,840	5,640	7,050	3,770	5,110	2,800	*4,700	2,620	7.93 m
-3.0 m	kg			*8,610	*8,610	*7,450	5,750	*5,650	3,830			*3,790	3,120	7.10 m
-4.5 m	kg			*11,930	11,750	*6,740	6,120					*1,830	*1,830	5.76 m

SK210HNLC		Boom: 2	n: 2 piece boom Arm: 3.5 m Bucket: without Shoe: 600 mm (Heavy Lift)													
\sim			m	3.0	m	4.	5 m	6	.0 m	7.	5 m	9.0	m	At Max.	Reach	
в		ł		ł	₫—	L		ł		ł	-	ł	₫—		-	Radius
9.0 m	kg					*5,760	*5,760							*4,040	*4,040	5.53 m
7.5 m	kg							*4,900	*4,900					*3,480	*3,480	7.09 m
6.0 m	kg							*5,910	5,060	*4,470	3,380			*3,250	2,900	8.07 m
4.5 m	kg					*6,920	*6,920	*6,890	4,810	*4,160	3,280			*3,190	2,470	8.69 m
3.0 m	kg	*27,470	*27,470	*15,760	13,170	*10,230	6,920	*7,820	4,450	*4,080	3,110	*3,350	2,240	*3,240	2,230	9.01 m
1.5 m	kg	*18,260	*18,260	*17,860	11,380	*11,290	6,170	7,440	4,090	*4,420	2,920	*3,910	2,170	*3,410	2,140	9.08 m
G.L.	kg	*19,140	*19,140	*6,710	*6,710	11,330	5,710	7,130	3,820	5,090	2,780			*3,720	2,160	8.89 m
-1.5 m	kg			*10,000	*10,000	*10,410	5,540	6,970	3,690	5,010	2,710			*4,230	2,320	8.43 m
-3.0 m	kg			*10,680	*10,680	*8,440	5,590	*6,400	3,700	*4,310	2,760			*4,010	2,700	7.65 m
-4.5 m	kg			*14,580	11,470	*5,140	*5,140	*4,510	3,900					*2,720	*2,720	6.43 m

SK210HNLC		Boom: 2 piece boom Arm: 2.40 m Bucket: without Shoe: 600 mm (Heavy Lift)												
\sim		1.5	5 m	3.0	m	4.5	m	6.0	m	7.5	m	At Max.	. Reach	
в		ł	,		₫-	L	,		#	ł		ł		Radius
9.0 m	kg											*7,980	*7,980	3.73 m
7.5 m	kg					*8,840	8,010					*6,070	5,070	5.80 m
6.0 m	kg					*9,010	7,810	*5,600	4,830			*5,140	3,660	6.97 m
4.5 m	kg			*14,160	14,110	*10,120	7,250	*4,780	4,620	*5,250	3,170	*4,730	3,030	7.68 m
3.0 m	kg			*15,820	12,570	*11,260	6,500	7,670	4,310	5,390	3,060	*4,590	2,720	8.05 m
1.5 m	kg			*17,910	11,250	11,570	5,930	7,340	4,020	5,250	2,940	4,660	2,610	8.12 m
G.L.	kg	*25,340	*25,340	*15,680	10,840	*10,810	5,710	7,150	3,860	5,170	2,860	4,800	2,670	7.91 m
-1.5 m	kg			*9,830	*9,830	*9,070	5,720	*7,040	3,830			*4,820	2,960	7.39 m
-3.0 m	kg					*6,260	5,890	*4,600	3,970			*3,560	*3,560	6.48 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.

3. Arm top defined as lift point.

4. The above lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic

lifting capacity or 75% of tipping load. Lifting capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

- Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.
- 6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.



STANDARD EQUIPMENT

FNGINE

- HINO J05EVA-KSDM diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V 96Ah)
- Starting motor (24V 5kW), 60 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner
- Refueling pump

CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- Power Boost
- Heavy lift
- Object Handling Kit (boom and arm safety valve + hook)
- Extra N&B piping (proportional hand controlled)

SWING SYSTEM & TRAVEL SYSTEM

- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake

HYDRAULIC

- Arm regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Hydraulic fluid filter clog detector
- Hydraulic pressure adjustment function for N&B piping
- Quick hitch piping

OPTIONAL EQUIPMENT

- Various optional arms
- Wide range of shoes
- Additional track guide
- Two cab lights
- Extended guard rail

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

- MIRRORS, LIGHTS & CAMERAS Rearview mirror
- Three front working lights Rear & right side cameras

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Emergency escape hammer
- Air suspension seat with heater (Optional for N&B piping specification)
- Radio, AM/FM stereo with speaker
- USB pin
- Top guard (ISO 10262 : 1998)
- Remote machine monitoring system "KOMEXS"
- Tow eyes
- Automatic air conditioner The air conditioning system on this machine contains fluorinated greenhouse gas HFC-134a (GWP 1430).
 - Quantity of gas 0.8 kg (CO₂ equivalent 1.2 t)
- Rain visor (may interfere with bucket action)
- Cab guard
- Travel alarm
- Lower Under Cover
- Bigger capacity P4 pump and steel PTO housing

Note: This catalogue 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.

Specialist equipment is needed to use this machine in demolition work. Before using it please contact your KOBELCO dealer.

Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice.

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