KOBELCO

Bucket Capacity :
 0.80 - 0.93m³ (ISO heaped)

 Engine Power :
 118kW / 2,000 min⁻¹ (ISO 14396)

Operating Weight :
 22,200 - 22,700 kg



SK220XDLC

Power Meets Efficiency

In line with KOBELCO's concept of mining-friendly construction machinery that will work long and hard on any site on the planet, the rugged machine body is newly designed, and comprehensive reinforcement makes the attachment more robust. It all adds up to KOBELCO's toughest ever mining excavator. The latest hydraulics technology delivers both high-powered output and lower fuel consumption. As the 10th generation model of KOBELCO's SK series, the SK220XDLC meets the needs of the most punishing mining sites with a performance that simply astounds.



Increase in productivity means "Power"

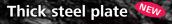
KOBELCO

16%* Higher fuel Saving means "Efficiency"

*in H-mode compared to H-mode on the SK210HDLC-8

Even stronger attachment

Reinforced arm exhibits strength





Thickness of steel plate has been increased.

Arm foot

Base plate thickness has been increased.

Modified Foot Boss Shape 🍕



The arm foot boss shape has been modified and improved to distribute stress, delivering more strength for tasks like digging next to a wall.

Rock Guards

Specially designed long, solid rock guards installed to prevent damage to arm.

Increase in productivity means "Power"

The boom and arm that take the greatest punishment are significantly reinforced.

Upper under covers protect machine body

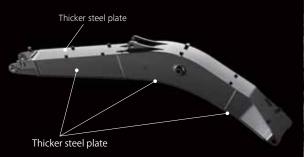
Upper Under Covers



Thick covers with increased durability compared to standard models.

Newly developed mining boom made of thicker steel plate

Featuring an XD Boom 🦇



The XD boom features stronger plates compared to the HD booms of standard machines, which increases longevity even under the toughest working conditions. **Big cross-section boom**



Big cross-section boom for unbeatable durability under harsh working conditions

Increase in productivity means "Power"

Powerful travel system for easy transit over loose rocks, and highly reliable filtration system ensure higher machine performance.

Crawlers Built for Unbeatable Durability



Reinforced Guide Frame Reinforced guide frame prevents deformation caused by impact or

deformation caused by impact or encroaching of loose stones.



Thicker steel plate for shoes

Reinforced HD shoes of thick steel plate to master rough, stony ground.



Reinforced step Design of the step uses strong, thick-plate steel, to stop large rocks impacting the travel motor.



Track Guide Large, reinforced track guide is installed.



Double-support outer flange upper rollers



Track Links The size and durability of the track link are increased compared to standard models.



Reinforced Travel Motor Cover Rear of travel motor cover is reinforced.



Lower Frame Underside Cover (option)

Hydraulic piping and equipment protected against damage from rubble and stony ground.



Improved Filtration System Reliability

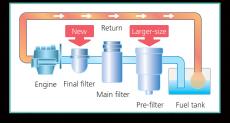
Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance. The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

Fuel filter

The pre-filter with built-in water separator has 1.6 times more filter area compared to the previous models and with a new final stage maintenance free fuel filter to maximize filtering performance.

Hydraulic Fluid Filter Clog Detector 🦇

Hydraulic tank pressure sensor monitors the pressure difference between the return line and tank inside pressure to determine the degree of clogging. If the difference exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be trapped by the filter and replaced before it reaches the hydraulic fluid in the tank.



Hydraulic fluid filter Hydraulic fluid reservoir

Hydraulic Fluid Filter 🐠

industry, our super-fine filter separates out even the smallest particles. New cover prevents contamination when changing filters.



Metal mesh MEW cover air cleaner

Metal mesh cover ensures strength and durability.



Enlarged filter image

Recognized as the best in the

Evolution Continues, with Improved Fuel Efficiency.

16%* **Higher fuel Saving** means

"Efficiency"

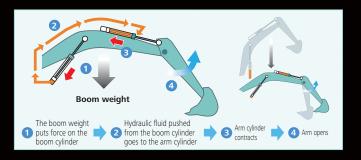
State of the state

The new arm regeneration flow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency by about 16%*. * in H-mode compared to H-mode on the SK210HDLC-8

Hydraulic System: Revolutionary Technology Saves Fuel

Arm Regeneration System 🤎

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

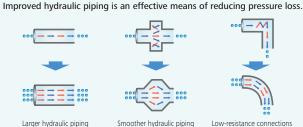


Hydraulic circuit reduces energy loss

KOBE

NEW

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.



Low-resistance connect

2.94 m arm (Bucket capacity 0.93 m³)

reach:

depth:

mm

mm

digging depth:

Max. Bucket Digging Force	Max digging
Normal: 143kN	9,900
With power boost: 157kN	Max digging
Max. Arm crowding Force	6,700
Normal: 102kN	Max vertical
With power boost: 112kN	6,100

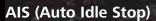
In Pursuit of Improved Fuel Efficiency

Operation Mode New

Fuel consumption is lower in H-mode/S-mode/ECO-mode in comparison with the previous model (Generation 8).

Compared to previous models





If the boarding/disembarking lever is lifted up, the engine will stop automatically. This eliminates wasteful idling during standby, saving fuel and reducing CO₂ emissions as



Pursuing maximum fuel efficiency

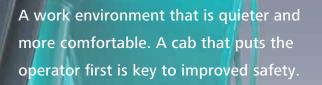
Common rail system

High-pressure injection atomizes the fuel, and more precise injection improves combustion efficiency. This also contributes to better fuel economy.





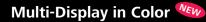
Comfortable Cab Is Now Safer than Ever.



-112-61

14:39

6 GLA VILL



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

 Green indicator light shows low fuel consumption during operation 3 Fuel consumption/Switch indicator for rear camera images

- 4 Digging mode switch5 Monitor display switch



4 % larger than the previous cab capacity. Relaxing environment allows work to be performed in comfort.

Air Conditioner Louvers behind the Seat



The large air-conditioner has louvers 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.

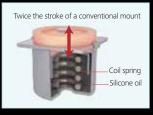
Super-Airtight Cab 🦇



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

Low Vibration New

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.



One-Touch Attachment Mode Switch

A simple touch of a button, switches the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.

Comfort



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.

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.



More Comfortable Seat Means Higher Productivity







Interior Equipment Adds to Comfort and Convenience







A Light Touch on the Lever Means Smoother, Less Tiring Work



It takes 38% less effort to work the operation lever, which reduces fatigue over long working hours or continued operations.

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.



Wide view during operations High Visibility for Safety



Greater safety assured by rearview mirrors on left and right.



Swing flasher / Rear working light

Efficient Maintenance Keeps the Machine in Peak Operating Condition.



Machine Information Display Function

- · Displays only the maintenance information that's needed, when it's needed
- Self-diagnostic function provides early-warning detection and display of electrical system malfunctions
- Service-diagnostic function makes it easier to check the status of the machine
- Record function of previous breakdowns including irregular and transient malfunction

Easy, On-the-Spot Maintenance

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.



ous space for maintenance work



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.



OBELC





Laid out for easy access to radiator and cooling system elements



- Fuel filter
- Fuel filter with built-in water-separator
- Engine oil filter



Engine oil pan equipped with drain valve.

Easy Cleaning



Special crawler frame design for easy mud removal cleaning.



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

More Efficient Maintenance Inside the Cab

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



Specifications





Engine

Model	HINO J05E	
Туре	Four-stroke liquid-cooled direct injection diesel turbo charged with intercooler	
No. of cylinders	4	
Bore and stroke	112 mm X 130 mm	
Displacement 5.123 L		
Rated power output	114 kW/2,000 min ⁻¹ (ISO9249)	
Rated power output	118 kW/2,000 min ⁻¹ (ISO14396)	
Max. torque	569 N•m/1,600 min ⁻¹ (ISO9249)	
	592 N•m/1.600 min ⁻¹ (ISO14396)	



Hydraulic System

Pump		
Туре	Two Variable displacement piston pumps + one gear pump	
Max. discharge flow	2 X 220 L/min, 1 X 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 {50 kgf/cm ² }	
Pilot control pump	Gear type	
Main control valves	8-spool valve	
Oil cooler	Air cooled type	

Swing System

Swing motor	One fixed displacement piston pump	
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position	
Parking brake	Wet multiple plate	
Swing speed	13.3 min ⁻¹ {rpm}	



Travel motors 2 X axial-piston. Two-step motors Travel brakes Hydraulic Wet multiple plate Parking brakes Travel shoes 49 each side Travel speed 6.0/3.6 km/h Drawbar pulling force 227 kN (SAE) Gradeability 70 % {35°} Ground clearance 455 mm



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

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	18 L
Engine oil	20.5 L
Travel reduction gear	2 X 5 L
Swing reduction gear	3 L
Hydraulic oil tank	140 L tank oil level
	244 L hydraulic system



Backhoe bucket and arm combination

Туре			Backhoe bucket			
Bucket capacity	ISO heaped m ³	0.8	0.8 Side pin type	0.93	0.93 Side pin type	
Opening width	With side cutter mm	1,160	1,160	1,330	1,300	
Opening width	Without side cutter mm	1,140	1,060	1,230	1,200	
No. of teeth		5	5	5	5	
Bucket weight	kg	640	730	710	790	
Combination	2.4m short arm	0	0	0	0	
Compination	2.94m standard arm	0	0	O	0	

Recommended O General operation

Specifications



Working Ranges

		Unit: m
Boom	5.65 m	
Arm Range	2.4 m	2.94 m
a-Max. digging reach	9.42	9.9
b-Max. digging reach at ground level	9.24	9.73
c- Max. digging depth	6.16	6.7
d-Max. digging height	9.51	9.72
e-Max. dumping clearance	6.68	6.91
f- Min. dumping clearance	2.98	2.43
g-Max. vertical wall digging depth	5.57	6.1
h-Min. swing radius	3.56	3.55
i- Horizontal digging stroke at ground level	4.08	5.27
j- Digging depth for 2.4 m (8') flat bottom	5.95	6.52
Bucket capacity ISO heaped m ³	0.93	0.8

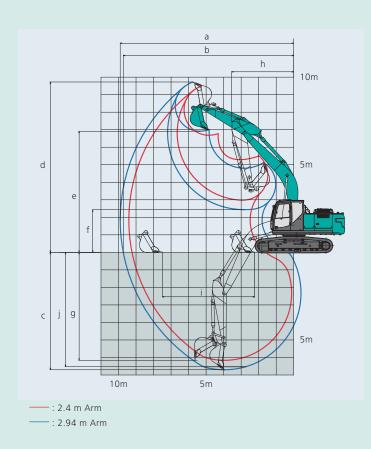
Digging Force (ISO 6015)

Digging Force (Iso 6015) Unit:			
Arm length	2.4 m	2.94 m	
Bucket digging force	143 157*	143 157*	
Arm crowding force	121 133*	102 112*	

*Power Boost engaged.

Dimensions

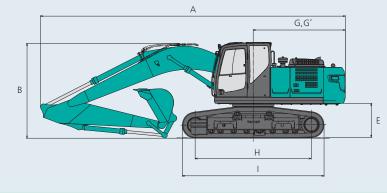
Aı	m length	2.4 m	2.94 m
А	Overall length	9,680	9,600
В	Overall height (to top of boom)	3,220	2,980
С	Overall width	2,990	
D	Overall height (to top of cab)	3,020	
Е	Ground clearance of rear end*	1,070	
F	Ground clearance*	455	

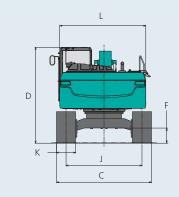


		Unit. min
G	Tail swing radius	2,910
G'	Distance from center of swing to rear end	2,900
н	Tumbler distance	3,660
Т	Overall length of crawler	4,460
J	Track gauge	2,390
к	Shoe width	600
L	Overall width of upperstructure	2,710

*Without including height of shoe lug

I Init: mm



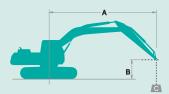


Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.93 m³ ISO heaped bucket

Shaped	Triple grouser shoes (even height)		
Shoe width mm	600	800	
Overall width mm	2,990	3,190	
Ground pressure kPa	46	35	
Operating weight kg	22,200	22,700	





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: Lifting capacities in Kilograms Bucket: Without bucket Relief valve setting: 34.3MPa (350kgf/cm²)

SK220XC	LC	Boom: 5.65 m Arm: 2.94 m, Bucket: without Shoe: 600 mm													
	Α	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach			
в		ł	#	L	#	L		ł		ł	-	ł	₩-	Radius	
7.5 m	kg							*4,810	*4,810			*3,850	*3,850	6.26 m	
6.0 m	kg							*5,230	*5,230			*3,560	*3,560	7.36 m	
4.5 m	kg							*5,710	5,150	*5,230	3,580	*3,480	3,170	8.03 m	
3.0 m	kg					*8,320	7,470	*6,450	4,860	5,430	3,450	*3,550	2,880	8.38 m	
1.5 m	kg					*9,780	6,870	*7,180	4,580	5,280	3,310	*3,760	2,770	8.45 m	
G.L.	kg			*5,750	*5,750	*10,450	6,550	7,190	4,380	5,170	3,210	*4,150	2,820	8.25 m	
-1.5 m	kg	*6,080	*6,080	*10,050	*10,050	*10,280	6,460	7,100	4,300	5,140	3,190	*4,880	3,060	7.75 m	
-3.0 m	kg	*10,650	*10,650	*12,890	12,800	*9,280	6,540	*6,870	4,350			*5,560	3,640	6.89 m	
-4.5 m	kg			*9,470	*9,470	*6,950	6,820					*5,210	5,170	5.49 m	

SK220XD	DLC	Boom: 5.65 m Arm: 2.4 m, Bucket: without Shoe: 600 mm													
\searrow	А	3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach					
в		L	#	⊢		L	#			L	#	Radius			
7.5 m	kg									*5,730	*5,730	5.59 m			
6.0 m	kg					*5,780	5,280			*5,210	4,240	6.80 m			
4.5 m	kg			*7,410	*7,410	*6,180	5,100	*5,310	3,550	*5,080	3,520	7.52 m			
3.0 m	kg			*9,010	7,320	*6,860	4,830	5,430	3,460	5,000	3,180	7.89 m			
1.5 m	kg			*10,260	6,810	7,410	4,580	5,300	3,350	4,850	3,060	7.97 m			
G.L.	kg			*10,590	6,590	7,230	4,420	5,230	3,280	4,990	3,140	7.75 m			
-1.5 m	kg	*10,410	*10,410	*10,110	6,580	7,190	4,390			5,530	3,460	7.22 m			
-3.0 m	kg	*11,610	*11,610	*8,740	6,710	*6,350	4,500			*5,810	4,260	6.28 m			
-4.5 m	kg			*5,430	*5,430					*4,980	*4,980	4.71 m			

SK220XD	LC	Boom: 5.6	Boom: 5.65 m Arm: 2.94 m, Bucket: without Shoe: 800 mm													
\searrow	А	1.5	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach			
в		L	#	L	#	ł		L	➡—	L	₫-	ł	₫—	Radius		
7.5 m	kg							*4,810	*4,810			*3,850	*3,850	6.26 m		
6.0 m	kg							*5,230	*5,230			*3,560	*3,560	7.36 m		
4.5 m	kg							*5,710	5,170	*5,230	3,590	*3,480	3,180	8.03 m		
3.0 m	kg					*8,320	7,500	*6,450	4,880	5,460	3,470	*3,550	2,890	8.38 m		
1.5 m	kg					*9,780	6,900	*7,180	4,590	5,310	3,330	*3,760	2,780	8.45 m		
G.L.	kg			*5,750	*5,750	*10,450	6,580	7,230	4,400	5,200	3,230	*4,150	2,830	8.25 m		
-1.5 m	kg	*6,080	*6,080	*10,050	*10,050	*10,280	6,490	7,140	4,310	5,170	3,200	*4,880	3,070	7.75 m		
-3.0 m	kg	*10,650	*10,650	*12,890	12,850	*9,280	6,570	*6,870	4,360			*5,560	3,660	6.89 m		
-4.5 m	kg			*9,470	*9,470	*6,950	6,840					*5,210	5,190	5.49 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.
- 2. 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.
- 5. 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.
- 7. The above figures indicate machine capacity, but in practice the machine should not be used for lifting loads.



STANDARD EQUIPMENT

ENGINE

- Engine, HINO J05E, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V 96Ah)
- Starting motor (24V 5 kW), 50 amp alternator 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 and ECO-mode)
- Power Boost SWING SYSTEM & TRAVEL SYSTEM
- Straight propel system
 Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- 600mm HD triple grouser shoe
- Automatic swing brake
- Tow eyes

HYDRAULIC

- Boom regeneration system
- Arm interflow system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Hydraulic fluid filter clog detector

OPTIONAL EQUIPMENT

- Refilling pump
- Rear view camera
- Lower frame under cover
- Additional track guides
- Front guard
- N&B piping

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

KOMEX

KOMEX allows you to use the Internet to manage information from your office for machines operating in all areas. This provides a wide range of support for your business operations.



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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Les milites Tex
Inquiries To:

MIRRORS & LIGHTS

- Two rear view mirrors
- Four front working lights (One for boom, one for boom cylinder, one for right storage box and one for cab)
- Swing flashers
- CAB & CONTROL
- Two control levers, pilot-operated
- Horn, electricCab light (interior)
- Luggage tray Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Automatic air conditioner
- Emergency escape hammer
- KOMEXS
- Suspension seat