

KOBELCO

STANDARD EQUIPMENT

ENGINE

- Engine, HINO P11C, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V 112Ah)
- Starting motor (24V 6kW), 60 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
- Swing rebound prevention system
 Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- 800mm HD triple grouser shoe Automatic swing brake
- Tow eyes
- HYDRAULIC
- Boom regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Arm interflow system
- Hydraulic fluid filter clog detector

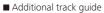
OPTIONAL EQUIPMENT

- N&B Piping
- Refilling pump
- Rear view camera
- 600mm HD triple grouser shoe

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

- **MIRRORS & LIGHTS**
- Two rear view mirrors
- Six front working lights (Two for boom, one for boom cylinder, one for right storage box and two for cab) 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
- Tinter initial windshed 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 ■ 24V outlet
- Multi control valve
- Battery disconnect switch
- Remote fuel drain
- Swing flashers





■ Step for 800mm shoes

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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Inquiries To:

SK500XD_{LC} SK520XD_{LC}





Power Meets Efficiency

In line with KOBELCO's concept of earth-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 SK500XDLC SK520XDLC meets the needs of the most punishing mining sites with a performance that simply astounds.



Increase in productivity means "Power"

KOBELLO

17% * Higher fuel saving means "Efficiency"

Even stronger attachment

Newly developed boom made of thicker steel plate

The XD boom fiatures reinforcement plates, which increases longevity even under the toughest working conditions.





ME boom NEW





SE 500 10:



Upper Under Covers

Thick covers with increased durability compared to standard models



Rock Guards

Specially designed long, solid rock guard installed to prevent lamage to arm.

Reinforced arm exhibits strength

Thickness of steel plate for arm top and arm foot has been increased to deliver more strength for toughest working conditions.

0

Arm foot

XD arm NEW

OBELLO



Increase in productivity means "Power"

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

Reinforced 2.1m³ bucket for heavy duty

The reinforced bucket enables high durability for the bucket even in the extremely heavy duty.





Increase in productivity means "Power"

Powerful travel system for easy transit over loose stones, 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 encroaching of loose stones.

Track Links

The durability of the track link is

increased compared to standard

models

Thicker steel plate for shoes



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



Track Guides



Large, reinforced track guides are installed in two locations.

Lower Under Cover



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

Built to operate in tough working environment

Hydraulic Drive for 🦇 Engine Cooling Fan; Independent **Ö**il Cooler Fan



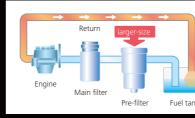
Hydraulic drive optimizes the cooling fan rotation speed to improve fuel economy and reduce noise. Also, the independent oil cooler fan better matches cooling to the hydraulic oil temperature, for optimal oil temperature control.

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

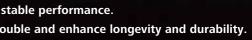
The pre-filter, with built-in water separator maximizes filtering performance.



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.









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



Metal Mesh **Cover Air Cleaner**

Metal mesh cover ensures strength and durability.



Enlarged filter image

Evolution Continues, with Improved Fuel Efficiency.

17%* **Higher fuel** saving means "Efficiency"

The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency by about 17%*.

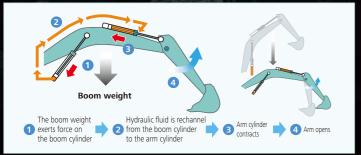
* Compared to H-mode on the SK480LC-8

SK50010

Hydraulic System: Revolutionary Technology Saves Fuel

Arm Interflow System

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





Fuel efficient work mode ECO mode 🕨

The fuel-saving ECO mode is newly provided to the work mode, selectable according to a desired operation. Fuel consumption can be greatly reduced.



ECO-mode, 26% decrease (compared to S-mode on the SK480LC-8) Used to prioritize the amount of

Used to reduce fuel consumption

or small workload

work done H mode, 17% decrease (compared to H-mode on the SK480LC-8)

Used to strike a balance between vorkloads and fuel efficiency S mode, 16% decrease mpared to S-mode on the SK480LC-8)

Get More Done Faster with Superior Operability

States a

ME 2.6 m arm

Normal:

Max. Bucket Digging Force 282kN Normal: With power boost: 308kN Max. Arm Digging Force 239kN

Max digging reach: 11,250mm Max digging depth: 6,820mm Max vertical digging depth: 6,110mm

Short 3.0 m arm

With power boost: 261kN

Max. Bucket Digging Force 270kN Normal: With power boost: 295kN

Max. Arm Digging Force 224kN Normal:

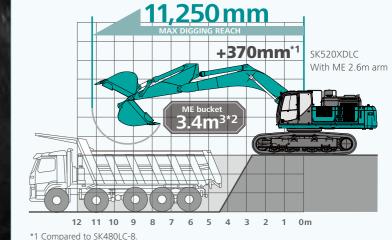
With power boost: 245kN

Max digging reach: 11,770mm Max digging depth: 7,360mm Max vertical digging depth: 6,670mm

Top Class Traveling Force

Powerful traveling force and drawbar pulling force deliver plenty of speed when climbing slopes or negotiating bad roads, and the agility to change direction swiftly and smoothly.

Drawbar Pulling Force: 415kN





Equipped with a 3.4m^{3 *2} ME bucket, the maximum digging reach stretches 370mm farther than the SK480LC-8, resulting in a reach of over 11m.

*2 To minimize spillage, 3.1m3 bucket may be better suited to width of some dump trucks.

Comfortable Cab Is Now Safer than Ever.

A work environment that is guieter and more comfortable. A cab that puts the





Multi-Display in Color **Wew**

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.

CONSUMPTION





1

1 Analog gauge provides an intuitive 3 Fuel consumption/Switch reading of fuel level and engine indicator for rear camera images water temperature 4 Digging mode switch

2 Green indicator light shows low 5 Monitor display switch fuel consumption during operation

Large cab NEW

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

Air Conditioner NEW 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.

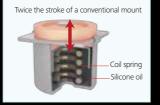
Super-Airtight Cab



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

Low Vibration

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



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



Interior Equipment Adds to Comfort and Convenience



Safety

ROPS Cab (optional)



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.





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.



A Light Touch on the Wew 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.





A rear view camera is installed as option to simplify checking for safety behind the machine. The picture appears on the color monitor.

Efficient Maintenance Keeps the Machine in Peak Operating Condition.



Examples of displaying maintenance information

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.



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.







Simple layout for easy access to radiator and cooling system elements.

 Fngine oil filter 2 Pilot filter



keep the cab floor free of mud, drain valve.

KOMEXS

Engine oil pan equipped with







3 Pump drain filter





Backhoe bucket and combination

	Use	Backhoe bucket			
	Ose	Heavy digging	Normal digging	Mass Ex	cavating
Bucket capacity	ISO heaped m ³	2.1	1.9	3.1	3.4
Struck m ³		1.5	1.5	2.2	2.45
Opening width	With side cutters mm	1,660	1,750	1,850	1,990
Opening width	Without side cutters mm	1,580	1,630	1,760	1,900
No. of teeth		5	5	5	6
Bucket weight	Bucket weight kg		1,560	2,280	2,410
	3.0m short arm	0	0	—	-
Combination	3.45m standard arm	0	O	_	_
Compination	6.5m ME boom and 2.6 ME arm		_	0	O

◎ Standard ○ Recommend — Not applicable

Specifications

Engine

Model	HINO P11C		
Туре	Water-cooled, 4cycle 6cylinder direct injection type diesel engine with intercooler turbo-charger		
No. of cylinders	6		
Bore and stroke	122 mm × 150 mm		
Displacement	10.52 L		
Rated power output	Net 257 kW/1,850 min ⁻¹ (ISO 14396 : without fan)		
Max. torque	Net 1,400 N · m/1,400 min ⁻¹ (ISO 14396 : without fan)		

Hydraulic System

Pump				
Туре	Two variable displacement pumps + One gear pump			
Max. discharge flow	2 × 370 L/min			
Relief valve setting				
Excavating circuits (main)	31.4 Mpa			
Power boost	34.3 Mpa			
Travel circuit	34.3 Mpa			
Swing circuit	26.0 Mpa			
Pilot control circuit	5.0 Mpa			
Pilot control pump	Gear type			
Main control valve	8-spool			
Oil cooler	Air cooled type			



wing motor	Axial piston motor	
arking brake	Wet multiple plate, hydraulic operated automatically	
wing speed	7.6 min ⁻¹	
wing torque	183 kN·m	

Easy Cleaning



Special crawler frame design for easy mud removal cleaning.

More Efficient Maintenance Inside the Cab

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



handles for easy removal. A floor

KOMEXS is the remote monitoring system for SK series excavators.When a hydraulic excavator is fitted with this system, data on the machine's operation, such as operating hours, location, fuel consumption, and maintenance status can be obtained remotely

Detachable two-piece floor mat with Floor mat's raised edges help





Dic SK SK500 **1**

Travel System

Travel motors	Variable displacement piston pump
Travel brakes	Hydraulic
Parking brakes	Wet multiple plate
Travel shoes	50 each side
Travel speed (high/low)	5.4/3.4 km/h
Drawbar pulling force	415 kN
Gradeability	70 % (35 deg)

Cab & Control

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 or two foot pedals for forward and backward operations of each track independently.

Boom, Arm & Bucket

Boom cylinders		170 mm × 1,590 mm
Arm cylinder		190 mm × 1,970 mm
Ducket culinder	SHD	160 mm × 1,410 mm
Bucket cylinder ME		170 mm × 1,429 mm

Refilling Capacities & Lubrications

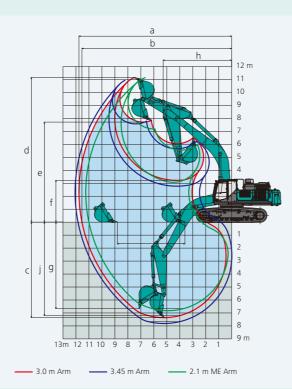
Fuel tank	638 L
Cooling system	47.4 L
Engine oil	42.5 L
Travel reduction gear	2×15 L
Swing reduction gear	2x5 L
Undraulic ail tank	371 L tank oil level
Hydraulic oil tank	631 L hydraulic system

C 🛛 LC S H) [] もん SK520XDLC-10 SK500XDLC-10

Lifting Capacities

Working Ranges K A

			Unit: m
Boom	ME 6.5m	7.0 m	
Arm Range	ME 2.6Arm	3.0Arm	3.45Arm
a- Max. digging reach	11.25	11.77	12.07
b-Max. digging reach at ground level	11.01	11.54	11.84
C- Max. digging depth	6.82	7.36	7.81
d-Max. digging height	11.15	11.16	10.94
e- Max. dumping clearance	7.18	7.72	7.58
f- Min. dumping clearance	3.07	3.23	2.78
g-Max. vertical wall digging depth	6.11	6.67	7.12
h-Min. swing radius	4.96	5.28	5.14
i- Horizontal digging stroke at ground level	3.87	5.21	6.10
j- Digging depth for 2.4 m (8')flat bottom	6.66	7.2	7.67
Bucket capacity ISO heaped m ³	3.4	2.1	1.9



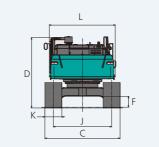
Digging Force (ISO 6015)

Arm length	ME 2.6Arm	3.0Arm	3.45Arm
Bucket digging force	282/308*	270/295*	267/292*
Arm crowding force	239/261*	224/245*	203/222*
*Power Poort anguaged			

Power Boost engaged.

Unit: kN

Unit: mm



G, G'

Dimensions

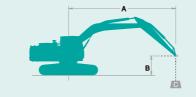
Aı	Arm length		ME 2.6Arm	3.0Arm	3.45Arm		
А	Overall length		12,200	11,980	12,160		
В	Overall height (to top of l	boom)	4,330	3,800	3,610		
С	Overall width		3,550				
D	Overall height (to top of o	ab)	3,320				
Е	Ground clearance of rear	end*	1,260*				
F	F Ground clearance*		510*				
C	Tail awing radius	SK500XDLC	3,800				
G	G Tail swing radius	SK520XDLC	3,880				
G'	Distance from center of	SK500XDLC	3,800				
G	swing to rear end	SK520XDLC	3,880				
н	Tumbler distance		4,400				
1	I Overall length of crawler		5,460				
J	J Track gauge		2,750				
к	K Shoe width		800				
L	L Overall width of upperstructure		3,110				
		*Wi	thout including he	eight of shoe lug.			

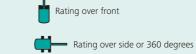
Operating Weight & Ground Pressure In standard trim, with standard boom, 3.00 m arm, and 2.1 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)		
Shoe width	mm	600	800	
Overall width of crawler	mm	3,350	3,550	
Ground pressure	kPa	86	66	
Operating weight	kg	49,900	51,000	

In standard trim, with 6.5 m ME boom, 2.6 m ME arm , and 3.4 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)						
Shoe width	mm	600	800					
Overall width of crawler	mm	3,350	3,550					
Ground pressure	kPa	90	69					
Operating weight	kg	52,200	53,400					





SK500XDL	00XDLC-10 Boom: 7.0 m Arm: 3.45 m Bucket: without Counterweight: 9,400 kg Shoe: HD 800 mm													
А		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
		L	— —	L	₫-	ł	#	ł	₫-	ł	₫—	ł		Radius
9.0m	kg											*9,180	*9,180	7.76m
7.5m	kg											*8,990	8,650	8.86m
6.0m	kg							*9,490	*9,490	*9,000	8,360	*8,940	7,460	9.59m
4.5m	kg			*16,130	*16,130	*12,320	*12,320	*10,450	*10,450	*9,430	8,140	*9,020	6,780	10.04m
3.0m	kg			*20,340	*20,340	*14,360	14,080	*11,560	10,260	*10,030	7,860	*9,280	6,420	10.26m
1.5m	kg			*13,430	*13,430	*16,030	13,330	*12,580	9,820	*10,600	7,610	*9,530	6,310	10.25m
G.L.	kg			*16,440	*16,440	*16,970	12,890	*13,260	9,510	*10,980	7,430	*9,830	6,440	10.01m
-1.5m	kg	*11,830	*11,830	*22,960	19,530	*17,110	12,740	*13,450	9,380	*10,950	7,370	*10,150	6,860	9.53m
-3.0m	kg	*20,240	*20,240	*21,500	19,760	*16,400	12,810	*12,910	9,430			*10,460	7,740	8.76m
-4.5m	kg	*25,000	*25,000	*18,790	*18,790	*14,500	13,120	*10,940	9,740			*10,600	9,550	7.62m

SK500XDLC-10 Boom: 7.0 m Arm: 3.0 m Bucket: without Counterweight: 9,400 kg Shoe: HD 800 mm														
A		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
В		L	♣—	ł	# -	ł	#	ł	₫—	ł	₫-	ł	e -	Radius
9.0m	kg											*9,990	*9,990	7.36m
7.5m	kg							*9,540	*9,540			*9,650	9,100	8.51m
6.0m	kg							*10,010	*10,010	*9,520	8,230	*9,560	7,790	9.27m
4.5m	kg			*17,470	*17,470	*12,990	*12,990	*10,910	10,630	*9,830	8,050	*9,610	7,060	9.74m
3.0m	kg					*14,930	13,830	*11,950	10,140	*10,340	7,800	*9,750	6,680	9.96m
1.5m	kg					*16,410	13,150	*12,860	9,730	*10,820	7,570	*9,950	6,580	9.95m
G.L.	kg			*12,370	*12,370	*17,100	12,810	*13,400	9,470	*11,080	7,430	*10,180	6,740	9.70m
-1.5m	kg	*9,270	*9,270	*21,700	19,580	*16,980	12,730	*13,390	9,390	*10,790	7,440	*10,400	7,250	9.20m
-3.0m	kg	*20,210	*20,210	*20,630	19,870	*15,970	12,870	*12,550	9,510			*10,530	8,280	8.41m
-4.5m	kg	*22,360	*22,360	*17,460	*17,460	*13,560	13,280					*10,320	*10,320	7.21m

SK520XDI	SK520XDLC-10 ME Boom: 6.5 m ME Arm: 2.6 m Bucket: without Counterweight: 11,200 kg Shoe: HD 800 mm													
A		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
		ł	₩-	L	-	L	—	ł	₫—	ł	₩-	ł	₫-	Radius
9.0m	kg											*11,200	*11,200	6.24m
7.5m	kg							*11,040	*11,040			*9,740	*9,740	7.56m
6.0m	kg					*11,890	*11,890	*10,860	*10,860			*9,060	*9,060	8.41m
4.5m	kg					*13,460	*13,460	*11,510	*11,510			*8,790	*8,790	8.93m
3.0m	kg					*15,240	*15,240	*12,390	11,350	*10,930	8,740	*8,810	8,500	9.17m
1.5m	kg					*16,600	14,840	*13,150	10,970	*11,160	8,580	*9,110	8,390	9.15m
G.L.	kg					*17,150	14,520	*13,510	10,760			*9,760	8,680	8.88m
-1.5m	kg			*22,070	*22,070	*16,770	14,480	*13,140	10,750			*10,940	9,490	8.34m
-3.0m	kg	*25,340	*25,340	*19,650	*19,650	*15,150	14,730					*10,990	*10,990	7.45m
-4.5m	kg			*14,980	*14,980							*9,830	*9,830	6.06m

Notes:

1. 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.

DIC ЬШ SK500XDLC-10 20XDLC-10

> 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: 34.3 MPa

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