

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 0



Reinforced guide frame prevents deformation caused by impact or encroaching of loose stones.

Thicker Steel Plate Track Links



plate to master rough, stony ground.

Reinforced Guide



Inside of guide frame is reinforced.

increased compared to SK500HDLC-8.



Large, reinforced track guides are

Track Guides



installed in four locations.

Double-Support Outer Flange Upper Rollers



Double-support outer flanged upper rollers can withstand powerful

Lower Frame Underside Cover



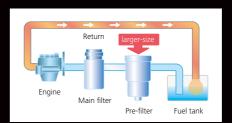
Hydraulic piping and equipment protected against damage from rubble

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.

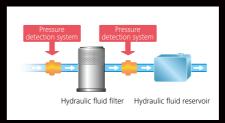
Fuel Filter NEW

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.



Hydraulic **NEW** Fluid Filter

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



Metal Mesh NEW **Cover Air Cleaner**

Metal mesh cover ensures strength and durability.



Evolution Continues, with Improved Fuel Efficiency

0%* Enhanced fuel saving means "Efficiency"

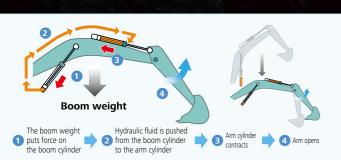
The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss. This improves fuel efficiency.

SX520 11

Hydraulic System: Revolutionary Technology Saves Fuel

Arm Interflow System NEW

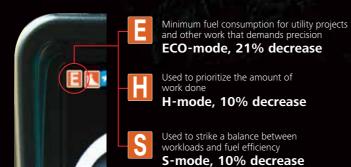
When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the shovel arm. This greatly reduces the need to apply power from outside the system.



Energy Saving System Saves Fuel Further

Fuel Efficient Work Mode ECO-Mode

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



ME 2.6 m Arm

- Max. Bucket Digging Force Max. Digging Reach: 282 kN
- Max. Digging Depth: With power boost: 308 kN 6.820 mm
- Max. Arm Digging Force Max. Vertical Digging Depth: 6,090 mm 239 kN With power boost: 261 kN

Get More Output Faster with Superior Operability

Short 3.0 m Arm

- Max. Bucket Digging Force 267 kN
- Max. Digging Depth: With power boost: 292 kN
- Max. Arm Digging Force 223 kN
- With power boost: 244 kN
- Max. Digging Reach: 11,690 mm
- 7,360 mm Max. Vertical Digging Depth:

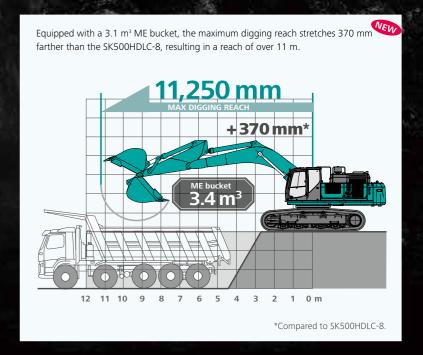
11,250 mm

6,580 mm

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: 415 kN



Comfortable Cab Is Now Safer than Ever



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

Large Cab NEW

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.

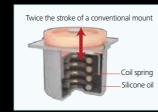
Super-Airtight Cab WEW



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

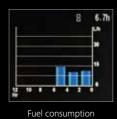
Low Vibration **NEW**

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.



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



MAINTENANCE SEE 500 495 FLELFILTER 500 495



Breaker mode

- 1 Analog gauge provides an intuitive reading of fuel level and engine
- 3 Fuel consumption/Switch indicator for rear camera images 4 Digging mode switch
- 2 Green indicator light shows low 6 Monitor display switch fuel consumption during operation

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

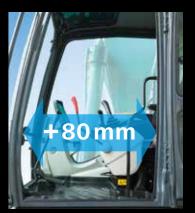


Broad View Helps the Operator

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







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.

Interior Equipment Adds to Comfort and Convenience





Safety

ROPS Cab

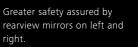


ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.

Wide View During Operations High Visibility for Safety





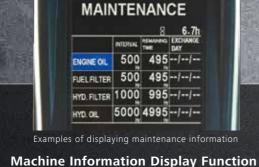


Rear View Camera (optional)



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



- 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









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

- - 3 Pump drain filter

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



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



Floor mat's raised edges help
Engine oil pan equipped with mud, simplify cleaning.





Specifications





Engine

Model	HINO P11C-WF
Туре	Water-cooled, 4-cycle 6-cylinder 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	257 kW/1,850 min ⁻¹ (ISO 14396: without fan)
Max. torque	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 {320 kgf/cm²}	
Power Boost	34.3 Mpa {350 kgf/cm²}	
Travel circuit	34.3 Mpa {350 kgf/cm²}	
Swing circuit	26.0 Mpa {265 kgf/cm²}	
Pilot control circuit	5.0 Mpa {50 kgf/cm²}	
Pilot control pump	Gear type	
Main control valve 8-spool		
Oil cooler	Air cooled type	

Swing System

Swing motor	Axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Wet multiple plate, hydraulic operated automatically
Swing speed	7.6 min ⁻¹ {rpm}

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

International Comfort Cab with dust free enclosure and with internal pressure of 97 Pa (earlier cab 27 Pa). 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		170 mm × 1,590 mm
Arm cylinder		190 mm × 1,970 mm
Duelest culindon	ME 2.6 m arm	170 mm × 1,429 mm
Bucket cylinder	Short 3.0 m arm	160 mm × 1,410 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	2 × 5 L
Hydraulic oil tank	371 L tank oil level
	631 L hydraulic system



Attachments

Backhoe bucket and combination

	Uro		Backhoe bucket		
Use -		General digging	Heavy digging	Mass Ex	cavating
Bucket capacity	ISO heaped m ³	2.1	2.5	3.1	3.4
Ononing width	With side cutters mm	1,570	1,820	1,760	1,900
Opening width	Without side cutters mm	1,470	1,700	1,670	1,810
No. of teeth		5	5	5	6
Bucket weight	kg	2,470	2,850	2,320	2,410
	ME 6.5 m boom and ME 2.6 m arm	_	_	0	0
Combination	Short arm 3.0 m with 9,800 kg counterweight	0	_	_	_
	Short arm 3.0 m with 11,200 kg counterweight	0	0	_	_

○ Recommended — Not applicable

Specifications



Working Ranges

Boom	ME 6.5 m	7.0 m
Arm Range	ME 2.6 Arm	Short 3.0 Arm
a- Max. digging reach	11.25	11.69
b- Max. digging reach at ground level	11.01	11.45
c- Max. digging depth	6.82	7.36
d- Max. digging height	11.12	10.85
e- Max. dumping clearance	7.18	7.49
f- Min. dumping clearance	3.07	3.23
g- Max. vertical wall digging depth	6.09	6.58
h- Min. swing radius	4.96	5.31
i- Horizontal digging stroke at ground level	3.87	5.12
j- Digging depth for 2.4 m(8') flat bottom	6.66	7.20
Bucket capacity ISO heaped m ³	3.40	2.10

Digging Force (ISO 6015)

2.999 . 0.00 (Unit: kiv
Arm length	ME 2.6 Arm	Short 3.0 Arm
Bucket digging force	282/308*	267/292*
Arm crowding force	239/261*	223/244*

*Power Boost engaged.

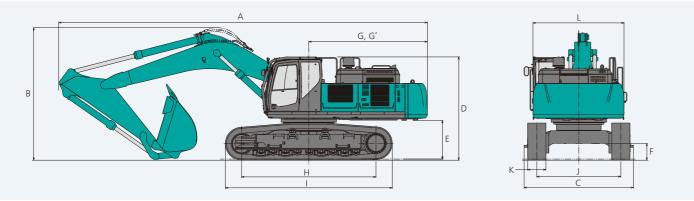
Unit: m

Dimensions

Arı	m length	ME 2.6 Arm	Short 3.0 Arm
Α	Overall length	12,060	12,210
В	Overall height (to top of boom)	4,330	3,780
С	C Overall width 3,580		580
D	Overall height (to top of cab)	3,3	380
Ε	Ground clearance of rear end*	1,260*	
F	Ground clearance*	510*	



*Without including height of shoe lug.



Operating Weight & Ground PressureIn standard trim, with ME 6.5 m boom, ME 2.6 m arm, 3.4 m³ ISO heaped bucket, and 11,200 kg counterweight

Shaped	Triple grouser shoes (even height)
Shoe width mm	600
Overall width of crawler mm	3,350
Ground pressure kPa	90
Operating weight kg	52,700

In standard trim, with 7.0 m boom, 3.0 m arm, 2.1 m³ ISO heaped bucket, and 9,800 kg counterweight

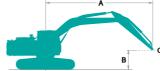
Shaped	Triple grouser shoes (even height)
Shoe width mm	600
Overall width of crawler mm	3,350
Ground pressure kPa	88
Operating weight kg	51,200

Lift Capacities



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

Bucket: Without bucket Relief valve setting: 31.4 MPa {320 kgf/cm²}



	Rating over front	
В	c Rating over side or 360 degr	rees

SK500XDL	Boom: 7.0 m Arm: 3.0 m Bucket: without Counterweight: 9,800 kg Shoe: 600 mm HD													
A		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
В				<u> </u>		1				1		1		Radius
9.0 m												*9,660	*9,660	7.25 m
7.5 m	kg							*9,450	*9,450			*9,000	*9,000	8.41 m
6.0 m	kg							*9,900	*9,900	*9,400	8,360	*8,770	8,050	9.18 m
4.5 m	kg			*17,250	*17,250	*12,830	*12,830	*10,770	*10,770	*9,690	8,170	*8,810	7,270	9.65 m
3.0 m	kg					*14,720	14,020	*11,780	10,280	*10,190	7,900	*9,100	6,850	9.88 m
1.5 m	kg					*16,150	13,300	*12,660	9,850	*10,660	7,660	*9,660	6,730	9.86 m
G.L.	kg			*16,970	*16,970	*16,830	12,930	*13,190	9,570	*10,910	7,520	*10,140	6,900	9.62 m
-1.5 m	kg	*13,370	*13,370	*22,030	19,750	*16,710	12,850	*13,180	9,480	*10,620	7,520	*10,410	7,410	9.11 m
-3.0 m	kg	*23,860	*23,860	*20,270	20,070	*15,710	13,000	*12,350	9,610			*10,620	8,490	8.31 m
-4.5 m	kg	*21,890	*21,890	*17,130	*17,130	*13,320	*13,320					*10,520	*10,520	7.10 m

SK520XDI	.c	Boom: ME 6.5 m Arm: ME 2.6 m Bucket: without Counterweight: 11,200 kg Shoe: 600 mm HD												
	Α	3.0	0 m	4.!	5 m	6.	0 m	7.	5 m	9.0) m	At Max	k. Reach	
В				4		1		<u> </u>		<u> </u>		1		Radius
9.0 m												*11,140	*11,140	6.24 m
7.5 m	kg							*10,760	*10,760			*9,660	*9,660	7.56 m
6.0 m	kg					*11,590	*11,590	*10,570	*10,570			*8,980	*8,980	8.41 m
4.5 m	kg					*13,110	*13,110	*11,200	*11,200			*8,700	*8,700	8.93 m
3.0 m	kg					*14,840	*14,840	*12,050	11,050	*10,630	8,480	*8,720	8,240	9.17 m
1.5 m	kg					*16,170	14,450	*12,790	10,660	*10,850	8,320	*9,010	8,130	9.15 m
G.L.	kg					*16,720	14,110	*13,150	10,430			*9,640	8,410	8.88 m
-1.5 m	kg			*21,550	*21,550	*16,350	14,090	*12,790	10,430			*10,810	9,220	8.34 m
-3.0 m	kg	*24,720	*24,720	*19,170	*19,170	*14,750	14,360					*10,670	*10,670	7.45 m
-4.5 m	kg			*14,540	*14,540							*9,500	*9,500	6.06 m

- 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
- 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 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.
- 7. The above figures indicate machine capacity, but in practice the machine should not be used for



STANDARD EQUIPMENT

ENGINE

- Engine, HINO P11C-WF, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS) Batteries (2 x 12 V 112 Ah)
- Starting motor (24 V 6 kW), 60 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain valve
- Double element air cleaner
- Battery shut down
- Pre air cleaner
- Emergency engine shut-off switch

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
- 600 mm HD triple grouser shoe
- Lower under cover
- Travel alarm
- Automatic swing brake
- Four track guides each side
- Straight propel system

HYDRAULIC

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

MIRRORS & LIGHTS

- Two rear view mirrors, right bottom clearance mirror
- Five front working lights (Two for boom, 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
- Skylight
- 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
- Excavator Remote Monitoring System
- Suspension seat
- 12 V outlet

OPTIONAL EQUIPMENT

- Refilling pump
- Rear view camera
- 600 mm HD double grouser shoe
- N&B Pipina

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

- Cab guard
- Top guard
- Heavy counterweight
- Cat walk
- Rotatory beacon

EXCAVATOR REMOTE MONITORING SYSTEM

Remote Monitoring System is a satellite-based system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.

Direct Access to Operational Status

Location Data

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

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

Fuel Consumption Data

Data on fuel consumption and idling times can be used to indicate improvements in 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 (N&B).



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.

Security System

Engine Start Alarm

Sends a notification if the engine is started outside of pre-defined hours.

Area Alarm

Sends a notification if the machine leaves a pre-defined area.

Note: Remote monitoring system is not applicable in some area due to country regulation of the communication lines or availability of infrastructure.

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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