

STANDARD EQUIPMENT

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

- 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 triple grouser shoe
- Travel alarm
- Automatic swing brake
- Straight propel system

HYDRAULIC

- Arm interflow system
- Auto warm up system
- Aluminum hydraulic oil cooler ■ Hydraulic fluid filter clog detector
- N&B piping
- Boom & Arm safety valve
- Multi control valve

MIRRORS, LIGHTS & CAMERAS

- Two Rearview mirrors
- Five front working lights (Two for boom, one for right storage box, Two for Cab)

CAR & 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
- KOMEXS
- Suspension seat
- Radio, AM/FM stereo with speaker
- 24v outlet
- Top Guard

OPTIONAL EQUIPMENT

- Refueling pump
- 600 mm HD triple grouser shoe
- Front guard
- Additional truck guide
- Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.
- Rear view camera
- Yellow rotating warning light ■ Lower Under Cover (t=9mm)

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. 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. Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.

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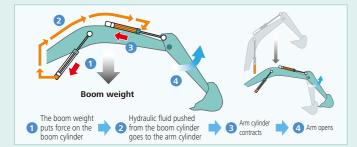




Hydraulic System: Revolutionary Technology Saves Fuel

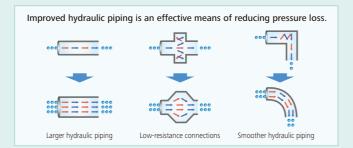
Arm Interflow System VEW

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.



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.

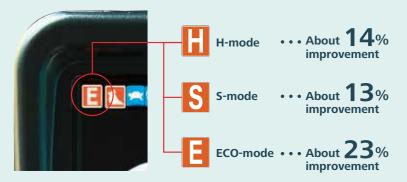


In Pursuit of Improved Fuel Efficiency

Operation Mode

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

■ Compared to previous models



Pull up safety lock lever Engine deceleration Alarm Stops 55 sec 60 sec Elapsed time

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.

Built to operate in tough working environment

Hydraulic Drive for Engine Cooling Fan; William Independent Oil 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.







Pursuing maximum fuel efficiency

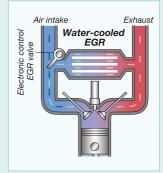
Common rail system

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



EGR cooler

While ensuring sufficient oxygen for combustion, cooled emission gases are mixed with the intake air and recirculated into the engine. This reduces oxygen content and lowers combustion temperature.



More Power and Higher Efficiency

The highly efficient hydraulic system minimizes fuel consumption while maximizing power. With nimble movement and ample digging power, this excavator promises to improve your job productivity.

Superior Digging Force

Max. Bucket Digging Force

*Hydraulic piping for attachments may vary in your area

etail of bucket may vary in your area



Max. Arm Crowding Force

Top-class excavating reach extends working range Max. digging reach 12,070mm Max. digging depth 7,810mm Max. vertical wall digging depth

*Values are for HD arm (3.45m)

6,990_{mm}

Get More Done Faster with Superior Operability



*Compared to SK480LC-8



Top Class Traveling Force

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



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



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
- Green indicator light shows low fuel consumption during operation
- 3 PM accumulation display (left)/Urea level gauge (right)
- Fuel consumption/Switch indicator for rear camera images
- 6 Digging 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.







uel consumption



Maintenance

5



Increase in productivity means "Power"

Structural design increases strength, while eliminating hydraulic problems. **Enhanced durability takes** productivity to a new level.

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.

Hydraulic Fluid Filter WW

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



Hydraulic Fluid Filter Clog Detector

Pressure sensors at the inlet and outlet of the hydraulic fluid filter monitor differences in pressure to determine the degree of clogging If the difference in pressure exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be removed from the filter before it reaches the hydraulic fluid reservoir.

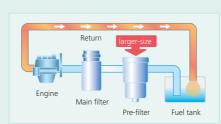


Double-Element Air Cleaner The large-capacity element features a double-filter structure that keeps he engine running clean even in



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

Fuel Filter VEW



Increased Filtering Capacity for VEW **Hydraulic Oil**

Two filters are installed for returning hydraulic oil, to curb clogging and increase the durability and reliability of the hydraulic equipment.



Pump Drain Filter VEW

Newly installed pump drain filter boosts pump reliability.



Pilot Filter

Detail of bucket may vary in your area.

A new cartridge-type pilot filter simplifies maintenance

*Hydraulic piping for attachments may vary in your area.



Comfortable Cab Is Now Safer than Ever.



Comfort

Super-Airtight Cab



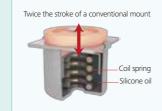
The high level of air-tightness keeps dust out of the cab.

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



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

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.

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





Safety

Expanded Field of View for Greater Safety



Greater safety assured by rearview mirrors on left and right.



Rear view shows the area directly behind the cab.





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



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 are 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.





Ground Level Access

Laid out for easy access to radiator and cooling system





More finely differentiated fuses make it

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

Easy Cleaning

easier to locate malfunctions.





Special sloped crawler side frame design is easily cleaned of mud.







Engine oil pan equipped with drain valve.

5,000

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.



Highly Durable Premium-fine Filter

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





Remote Monitoring for Peace of Mind

KOMEXS uses satellite communication and internet to relay data, and therefore can be deployed in areas where other forms of communication are difficult. 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.



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.



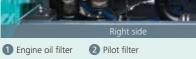


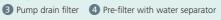
















Engine

Model	HINO P11C-UP	
Туре	For-stoke liquid-cooled direct injection diesel turbo charged with intercooler	
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	Variable displacement piston pumps + 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	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	
Swing speed	7.6 min ⁻¹ {rpm}	
Swing torque	185 kN·m	



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
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.

	7	

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
Bucket cylinder	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			
Undraulic ail tank	371 L tank oil level			
Hydraulic oil tank	631 L hydraulic system			



Standard

Attachments

Backhoe bucket and combination

	Use		Backhoe bucket
Use			Heavy digging
Pucket capacity	ISO heaped	m³	1.90
Bucket capacity	Struck		1.40
Ononing width	With side cutters	mm	1,470
Opening width	Without side cutters	mm	1,440
No. of teeth			5
Bucket weight kg		kg	2,370
Combination 3.45m standard arm			©



1.9m³ bucket for heavy digging



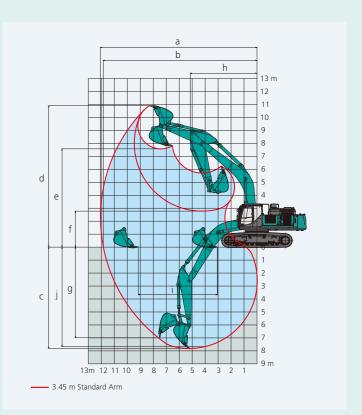
Working Ranges

	Unit: m
Boom	7.0 m
Arm Range	3.45 Arm
a- Max. digging reach	12.07
b-Max. digging reach at ground level	11.84
c- Max. digging depth	7.81
d-Max. digging height	10.91
e- Max. dumping clearance	7.58
f- Min. dumping clearance	2.78
g-Max. vertical wall digging depth	6.99
h-Min. swing radius	5.14
i- Horizontal digging stroke at ground level	6.09
j- Digging depth for 2.4 m (8')flat bottom	7.67
Bucket capacity ISO heaped m ³	1.90

Digging Force (ISO 6015)

	0111111111
Arm length	3.45 Arm
Bucket digging force	268/293*
Arm crowding force	203/222*

*Power Boost engaged.

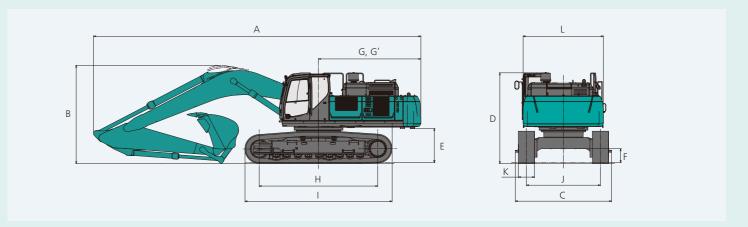


Dimensions

Arm length		3.45 Arm	
Α	Overall length	12,160	
В	Overall height (to top of boom)	3,640	
C	Overall width	3,580	
D	Overall height (to top of cab)	3,370	
Е	Ground clearance of rear end*	1,260*	
F	Ground clearance*	510*	

		Unit: mm
G	Tail swing radius	3,800
G'	Distance from center of swing to rear end	3,800
Н	Tumbler distance	4,400
1	Overall length of crawler	5,460
J	Track gauge	2,750
K	Shoe width	600
L	Overall width of upperstructure	2.980

*Without including height of shoe lug.



Operating Weight & Ground Pressure In standard trim, with standard boom, 3.45 m arm, and 1.9 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)	
		standard	HD
Shoe width	mm	600	600
Overall width of crawler(Without including width of step)	mm	3,350	3,350
Ground pressure	kPa	85.1	85.5
Operating weight	kg	49,700	49,930