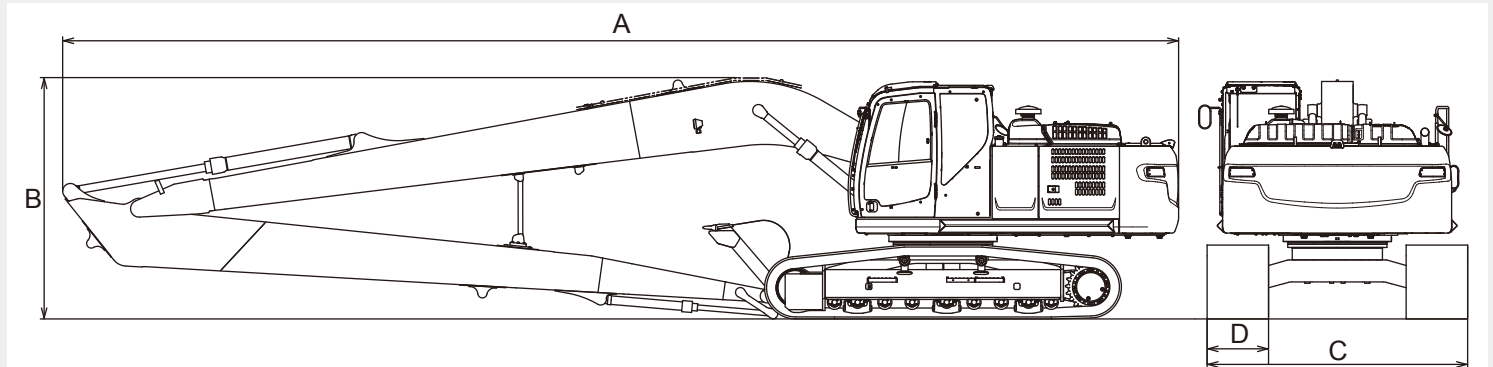


Main Specifications

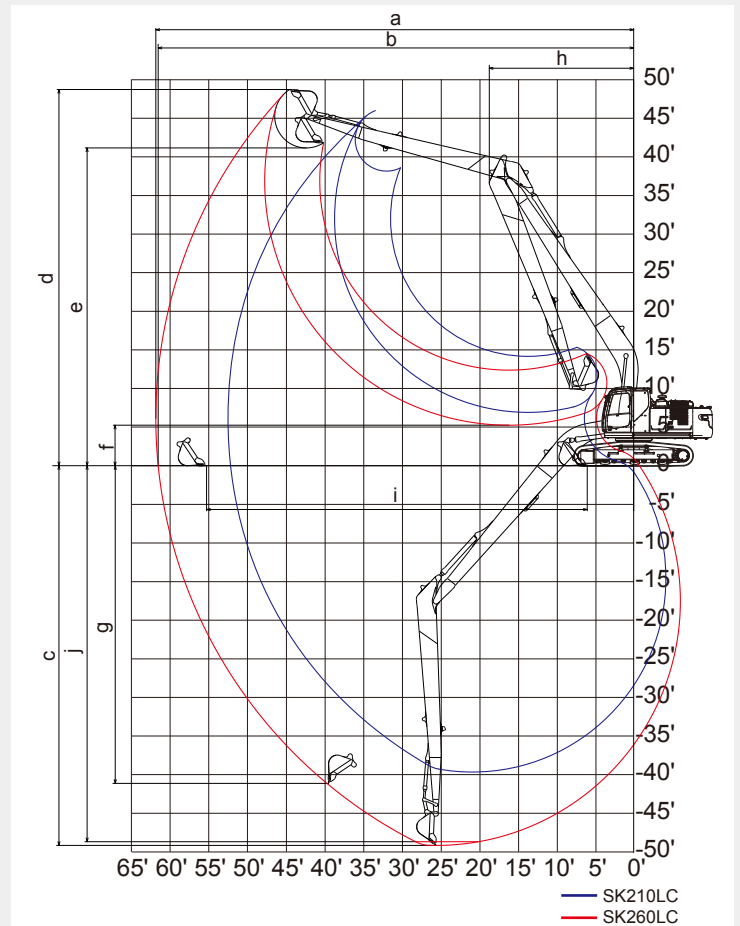


Model		SK210LC	SK260LC
Long reach attachment		50ft	60ft
Engine		HINO J05E-UM	HINO J05E-UN
Rated power output (SAE NET)	hp{kW} / rpm	160{119} / 2,000	178 {133} / 2,100
Swing speed	rpm	12.7	10.2
Operating weight	lbs {kg}	52,200 {23,700}	62,600 {28,400}
Ground pressure	psi {kPa}	5.9 {41}	6.1 {42}
A. Overall length	ft-in {mm}	41'8" {12,690}	47'8" {14,520}
B. Overall height	ft-in {mm}	10'3" {3,120}	10'4" {3,140}
C. Overall width	ft-in {mm}	10'5" {3,180}	11'1" {3,390}
D. Shoe width	in {mm}	31.5" {800}	31.5" {800}

Working Ranges

Unit: ft-in

	SK210LC	SK260LC	
	50ft	60ft	
Boom	28'8"	33'11"	
Range	Arm	20'10"	27'1"
a- Max. digging reach	51'11"	60'10"	
b- Max. digging reach at ground level	51'7"	60'6"	
c - Max. digging depth	39'5"	48'4"	
d- Max. digging height	45'7"	47'9"	
e- Max. dumping clearance	37'10"	40'5"	
f - Min. dumping clearance	6'10"	5'2"	
g- Max. vertical wall digging depth	36'8"	40'5"	
h- Min. swing radius	15'6"	18'4"	
i - Horizontal digging stroke at ground level	38'1"	48'5"	
j - Digging depth for 2.4 m (8') flat bottom	39'1"	47'10"	
Bucket capacity SAE heaped cu.yd.	0.6	0.5	



LONG REACH ATTACHMENT

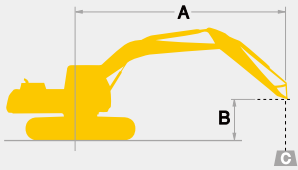
SK210_{LC}

SK210LC-10

SK260_{LC}

SK260LC-10

Lifting Capacities



Rating over front



Rating over side or 360 degrees

A – Reach from swing centerline for arm top
 B – Bucket hook height above/below ground
 C – Lifting capacities in pounds

SK210LC 50ft Boom; 28"8", Arm; 20'10", Bucket; Less, Counterweight; 12,100 lbs, Shoe; 31.5"

B	A	5'		10'		15'		20'		25'		30'		35'		40'		45'		At Max. Reach		Radius					
		Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating						
40'	lb																					* 2,460	* 2,460	33"7"			
35'	lb																						* 2,260	* 2,260	38"0"		
30'	lb																						* 2,150	* 2,150	41"5"		
25'	lb																						* 2,100	* 2,100	43"11"		
20'	lb																						* 2,090	* 2,090	45"9"		
15'	lb																						* 2,110	* 2,110	47"0"		
10'	lb																						* 2,180	* 2,180	47"8"		
5'	lb																						* 2,290	* 2,290	47"10"		
GL	lb																						* 2,440	* 2,440	47"5"		
-5'	lb	* 4,570	* 4,570	* 6,370	* 6,370	* 11,320	* 11,320	* 14,390	9,590	* 11,150	7,170	* 9,090	5,620	7,330	4,520	6,060	3,700	* 4,580	3,080	* 2,650	* 2,650				46"6"		
-10'	lb	* 6,600	* 6,600	* 8,390	* 8,390	* 12,750	* 12,750	* 14,600	9,270	* 11,410	6,890	8,870	5,400	7,170	4,370	5,960	3,610	* 3,050	* 3,050	* 2,960	* 2,960				45"0"		
-15'	lb	* 8,710	* 8,710	* 10,690	* 10,690	* 15,070	13,890	* 14,300	9,180	11,280	6,780	8,760	5,300	7,100	4,300	5,930	3,590									42"11"	
-20'	lb	* 11,000	* 11,000	* 13,350	* 13,350	* 17,560	14,120	* 13,500	9,270	* 10,790	6,800	8,770	5,310	7,130	4,330	* 4,160	3,670									40"0"	
-25'	lb	* 13,570	* 13,570	* 16,540	* 16,540	* 15,460	14,530	* 12,110	9,500	* 9,750	6,960	* 7,910	5,450	* 6,270	4,490												36"3"
-30'	lb			* 16,170	* 16,170	* 12,390	* 12,390	* 9,880	* 9,880	* 7,900	7,290	* 6,060	5,770														31"2"
-35'	lb							* 6,180	* 6,180																		24"1"

SK260LC 60ft Boom; 33"11", Arm; 27'1", Bucket; Less, Counterweight; 14,950 lbs, Shoe; 31.5"

B	A	5'		10'		15'		20'		25'		30'		35'		40'		45'		50'		55'		At Max. Reach		Radius			
		Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating				
40'	lb																									* 2,120	* 2,120	45"5"	
35'	lb																										* 2,060	* 2,060	48"9"
30'	lb																										* 2,040	* 2,040	51"5"
25'	lb																										* 2,050	* 2,050	53"6"
20'	lb																										* 2,090	* 2,090	55"0"
15'	lb																										* 2,150	* 2,150	56"0"
10'	lb																										* 2,250	* 2,250	56"7"
5'	lb																										* 2,380	* 2,380	56"9"
GL	lb																										* 2,550	* 2,550	56"5"
-5'	lb	* 4,800	* 4,800	* 6,380	* 6,380	* 10,460	* 10,460	* 14,140	11,590	* 10,760	8,750	* 8,680	6,900	* 7,310	5,580	* 6,350	4,590	* 5,650	3,810	* 5,120	3,180	* 3,310	2,670	* 2,780	* 2,610			55"8"	
-10'	lb	* 6,240	* 6,240	* 7,680	* 7,680	* 10,990	10,990	* 14,910	10,960	* 11,430	8,210	* 9,230	6,480	* 7,730	5,260	* 6,670	4,350	* 5,890	3,630	5,130	3,060							54"5"	
-15'	lb	* 7,710	* 7,710	* 9,170	* 9,170	* 12,190	* 12,190	* 15,260	10,660	* 11,830	7,900	* 9,590	6,210	* 8,030	5,040	* 6,900	4,180	* 5,870	3,510	5,060	2,990							52"8"	
-20'	lb	* 9,230	* 9,230	* 10,800	* 10,800	* 13,800	* 13,800	* 15,260	10,600	* 11,970	7,780	* 9,750	6,070	* 8,180	4,930	* 6,830	4,090	* 5,820	3,460	* 4,480	2,980							50"4"	
-25'	lb	* 10,830	* 10,830	* 12,600	* 12,600	* 15,760	* 15,760	* 14,920	10,710	* 11,820	7,800	* 9,690	6,070	* 8,140	4,910	* 6,830	4,090	* 5,850	3,490									47"5"	
-30'	lb	* 12,540	* 12,540	* 14,590	* 14,590	* 18,120	17,040	* 14,200	10,980	* 11,360	7,970	* 9,360	6,180	* 7,860	5,000	* 6,660	4,190											43"8"	
-35'	lb	* 14,360	* 14,360	* 16,810	* 16,810	* 16,810	* 16,810	* 13,020	11,420	* 10,510	8,270	* 8,670	6,420	* 7,220	5,220													39"0"	
-40'	lb																												32"10"

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.
- Arm bucket pin is defined as lift point.
- The above lifting capacities are in compliance with SAE J/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.
- Lift capacities apply to only machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

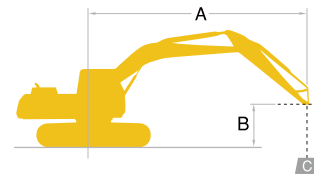
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KOBELCO CONSTRUCTION MACHINERY U.S.A. INC.

22350 Merchants Way, Katy, Texas 77449
<http://www.kobelco-usa.com/>

Inquiries To:

Lifting Capacities



Rating over front



Rating over side or 90 degrees

A – Reach from swing centerline to arm tip
B – Arm bucket pin height above/below ground
C – Lifting capacities in pounds (kilograms)

SK210LC		Standard Arm: 9'8" (2.94m), no bucket, 2'7" (800mm) track shoes												
		5' (1.5m)		10' (3.0m)		15' (4.6m)		20' (6.1m)		25' (7.6m)		AT MAX		Radius
B	A	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	
25' (7.6m)	lb(kg)													20'2" (6.15)
20' (6.1m)	lb(kg)													23'11" (7.30)
15' (4.6m)	lb(kg)													26'3" (8.01)
10' (3.0m)	lb(kg)													27'5" (8.37)
5' (1.5m)	lb(kg)													27'8" (8.45)
Ground Level	lb(kg)													27'0" (8.25)
-5' (-1.5m)	lb(kg)													25'4" (7.74)
-10' (-3.0m)	lb(kg)													22'6" (6.86)
-15' (-4.6m)	lb(kg)													17'9" (5.41)

SK210LC		Long Arm: 11'6" (3.5m), no bucket, 2'7" (800mm) track shoes												
		5' (1.5m)		10' (3.0m)		15' (4.6m)		20' (6.1m)		25' (7.6m)		AT MAX		Radius
B	A	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	Rating over front	Rating over side or 90 degrees	
25' (7.6m)	lb(kg)													22'1" (6.74)
20' (6.1m)	lb(kg)													25'7" (7.81)
15' (4.6m)	lb(kg)													27'9" (8.47)
10' (3.0m)	lb(kg)													28'11" (8.82)
5' (1.5m)	lb(kg)													29'2" (8.89)
Ground Level	lb(kg)													28'6" (8.7)
-5' (-1.5m)	lb(kg)													26'11" (8.22)
-10' (-3.0m)	lb(kg)													24'3" (7.39)
-15' (-4.6m)	lb(kg)													19'11" (6.08)

- 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.
 - Arm bucket pin, without bucket is defined as lift point.
 - The above lifting capacities are in compliance with SAE J1506. 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.
 - Lift capacities apply to only machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Note: This document may contain attachments and optional equipment that are not available in your area. It may also contain photographs of machines with specifications that differ from those sold in your area. Please contact your nearest KOBELCO dealer for items you require.
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KOBELCO CONSTRUCTION MACHINERY U.S.A. INC.

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http://www.kobelco-usa.com/

Inquiries To:

Bulletin No. SK210LC-10-NA-101

KOBELCO

Hydraulic Excavator

SK210LC

SK210LC-10

DRIVEN BY PASSION

■ Bucket Capacity :

0.92 - 1.22 cu. yd. SAE

■ Engine Power :

160 hp {119 kW} @ 2,000 rpm
(SAE NET)

■ Operating Weight :

49,400 lbs {22,400 kg}



Complies with the latest exhaust emission regulations



US EPA
Tier IV Final



EU (NRMM)
Stage IV



Japanese
Regulations

Power Meets Efficiency

Increased POWER
means increased
PRODUCTIVITY

Greater fuel
economy means
higher efficiency

From urban centers to mines around the world, KOBELCO's all-out innovation brings you durable, Earth-friendly construction machinery that's equal to any task all over the planet. Increased power and better fuel economy bring greater efficiency to any project. The KOBELCO SK210LC Conventional Hydraulic Excavator is more durable than ever, able to withstand the rigors of the toughest job sites. Focusing on the global environment of the future, KOBELCO offers next-generation productivity to meet the need for lower life-cycle costs and exceed the expectations of customers the world over. It all adds up to new levels of value that are a step ahead of the times.



SK210_{LC}

More power and higher efficiency.

The highly efficient hydraulic system minimizes fuel consumption while maximizing power. With nimble movement and outstanding digging power, this excavator improves job productivity.

About 7% increase ■ Digging volume/hour
(Compared to H-mode on previous models)

Increased POWER means increased PRODUCTIVITY

Power to do more, faster

Digging Volume

The SK210LC offers dynamic digging force even as it minimizes fuel consumption, achieving class-leading work volume. H-mode is used for maximum productivity, delivering 7% greater digging volume.

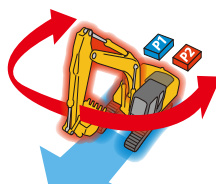
Heavy Lift

10% more hydraulic pressure (Heavy Lift) means greater lifting power, at close radius, allowing for smooth and steady operation while moving heavy objects.



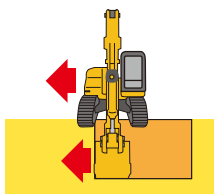
Independent Travel

Selecting Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment. With Independent Travel, safely carrying a large pipe across a job site is a breeze.



Swing Priority

Our exclusive system automatically and instantly delivers full swing power during combined operations. There's no need to mode-switch to make quick work of jobs like side-digging and back-filling.



Power Boost

When you need more power instantly, engage Power Boost to get 10% more power.

■ Max. Bucket Digging Force
With Power Boost: **35,300lbs (157kN)**

■ Max. Arm Crowding Force
With Power Boost: **25,200lbs (112kN)**

Drawbar Pulling Force

Excellent drawbar force lets you conquer rough terrain and slopes.

51,500lbs (229kN)

Conforms to Tier IV Final exhaust emissions standards

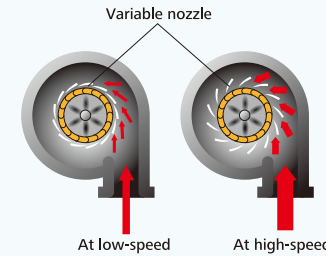
Reduces fuel consumption and minimizes exhaust emissions

Hino engines are renowned for fuel efficiency and environmental performance, and KOBELCO has tuned them specifically for construction machinery. The high-pressure common rail fuel injection system, the variable-geometry (VG) turbocharger, and the exhaust gas recirculation (EGR) system reduce particulate matter (PM) while the large EGR cooler greatly reduces the formation of Nitrogen Oxide (NOx) gases.



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.

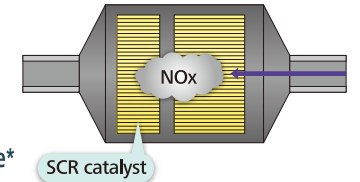


SCR System with DEF **NEW**

Engine exhaust system utilizes Selective Catalytic Reduction (SCR) to convert NOx* into harmless nitrogen and water emissions. SCR combined with a Diesel Particulate Filter (DPF) makes the SK210LC a much cleaner machine meeting US EPA regulations for Tier IV final.

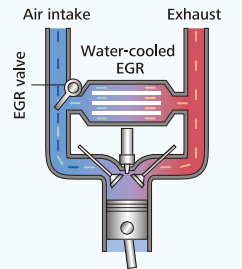
■ NOx reduction rate
(Compared to previous models)

About **88%** decrease*
*88% cleaner than Tier IV Interim



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.



Revolutionary technology boosts efficiency and minimizes fuel consumption

Operation Mode

Improved fuel economy in ECO- and S-modes.

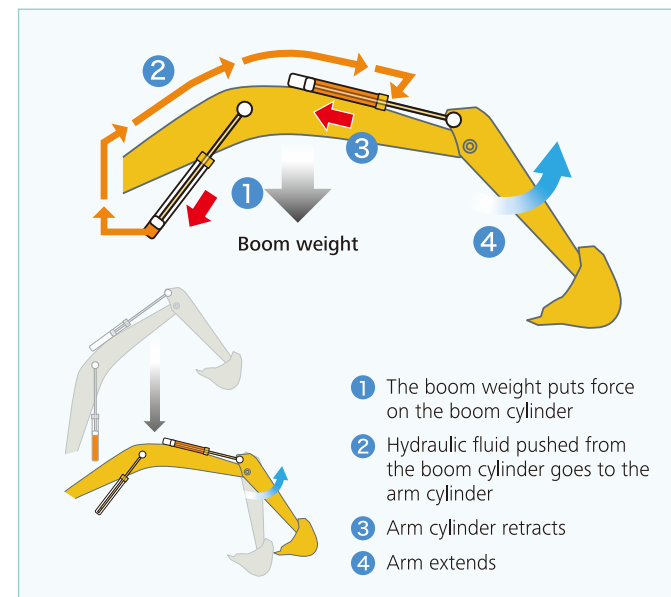
■ Compared to previous models

E ECO-mode ... About **6%** improvement

S S-mode ... About **10%** improvement

Boom to Arm Regeneration System **NEW**

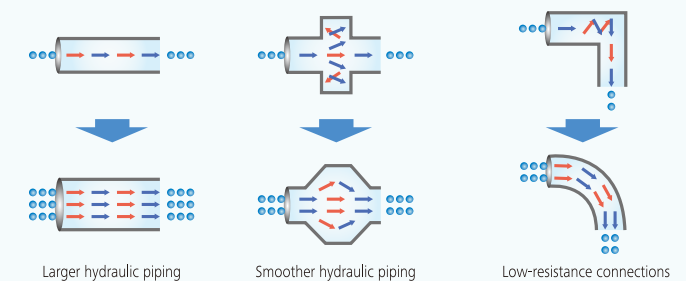
Innovative engineering uses the downward movement of the boom to push fluid to the arm. Gravity and kinetic energy greatly reduce the amount of power needed to move fluid through the system.



Hydraulic circuit reduces energy loss

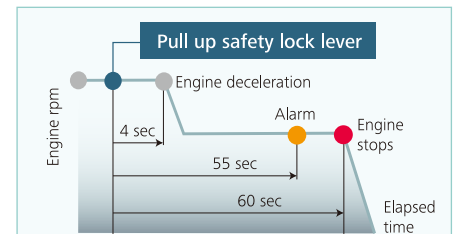
Improved hydraulic line layout minimizes hydraulic pressure resistance from turbulence and valve restrictions. Fuel efficiency is increased because it takes less energy to move fluid through a circuit with low flow resistance.

Improved hydraulic piping is an effective means of reducing pressure loss.



AIS (Auto Idle Stop)

The engine will stop automatically after 60 seconds of inactivity if the safety lock lever is in the up position. This eliminates wasteful idling during standby, saving fuel and reducing CO₂ emissions.



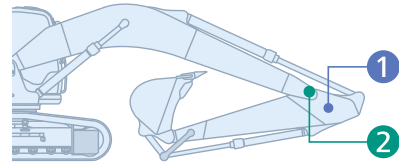
Increased power with enhanced durability to maintain the machine's value

Smart system design increases strength and eliminates hydraulic problems. Enhanced reliability and durability takes productivity to a new level.



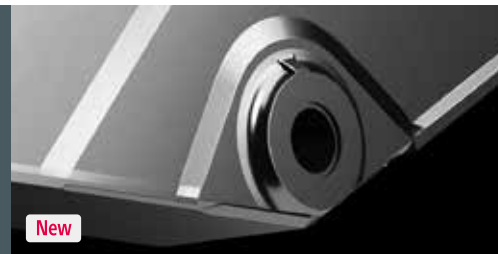
Built to operate in tough working environments

Reinforced and redesigned boom and arm offers excellent durability during demanding work conditions to reliably handle higher work volume.



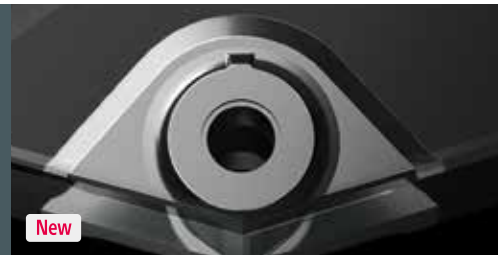
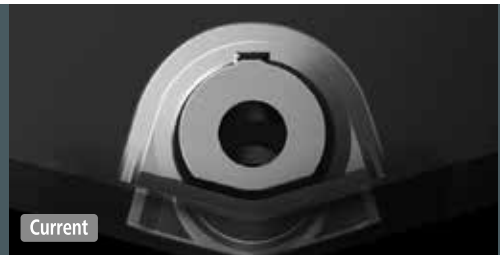
1 Enlarged reinforcement of the arm

Arm: Base plate thickness has been increased.



2 Modified foot boss shape

Arm foot boss shape has been changed to better distribute stress.



500 Hour Attachment Lubrication Interval

The self lubrication bushings are used at the attachment pins and the bushings with high abrasion resistant property are used at the pins around the bucket. The lubrication cycle of the lubrication points around the bucket is 250 hours and that of other lubrication points is 500 hours.



* Additionally the two piece bucket bushings protect the side of the arm from contact and then wear from the bucket ears. Should the bucket bushings need replacement, they can be replaced separately from the larger main bushing, reducing costs.

Three Track Guides

Three heavy-duty track guides installed on each crawler side frame assure stability in the most demanding situations.



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

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

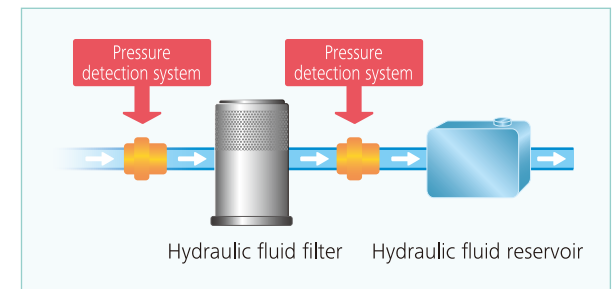
Long-life hydraulic fluid:
5,000 hours

Hydraulic fluid filter replacement cycle is
1,000 hours



Hydraulic fluid filter restriction indicator

Detects clogging by measuring the difference in pressure between incoming and outgoing hydraulic fluid. Detecting contaminants before they can get into the hydraulic fluid reservoir reduces the risk of damage to the hydraulic system.



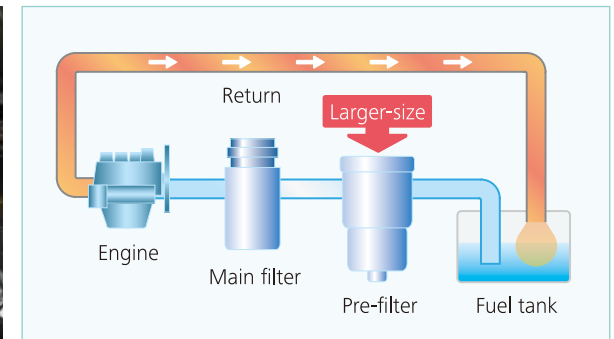
Double-element air cleaner

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



Fuel filter

Pre-filter with built-in water-separator maximizes filtering performance.



Comprehensive safety and intuitive operation

User-friendly design and enhanced safety means greater efficiency and productivity.



Safety

ROPS Cab

ROPS (Roll-Over-Protective Structure)-compliant cab complies with ISO standards (ISO-12117-2: 2008) and ensures greater operator safety in the event of a roll-over. KOBELCO encourages operators to wear their seat belt during operation.



• Top Guard Level II (Meets ISO10262)



* Mounting brackets for vandalism guards are standard equipment (contact your KOBELCO dealer to fit vandalism or front rock guards).

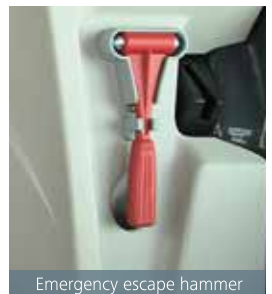
Expanded field of view for greater safety



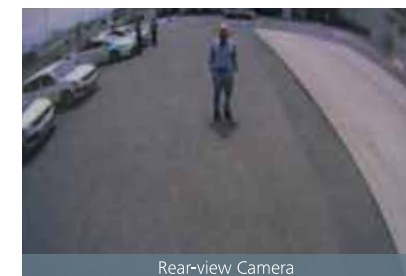
Left and right rear-view mirrors/Right bottom clearance mirror



Rear view from cab



Emergency escape hammer



Rear-view Camera



Standard rear-view camera eases safety checks behind the machine. Color video displays on cab monitor.



Standard rear swing flashers and rear work lights.

Operator-friendly features that are easy to see, easy to use



Color Multi-display

Brilliant colors differentiate multiple graphics on cab LCD. Graphics indicate fuel consumption, maintenance intervals and more.

- 1 Analog-style gauges provide an intuitive reading of fuel level and engine temperature
- 2 Green indicates ECO mode selected or efficient operation in other modes
- 3 PM accumulation (left)/DEF level (right)
- 4 Fuel consumption/Rear-view camera
- 5 Digging mode switch
- 6 Monitor display switch

One-touch attachment mode switch

A simple flick of switch converts the hydraulic circuit and flow amount to match attachments. Helpful icons let the operator confirm the proper configuration at a glance.



PM accumulation/DEF level



Fuel consumption



Maintenance



Breaker mode



Nibbler mode



Independent Travel mode



Heavy Lift



Rear-view camera

Cab comfort takes a step ahead

The newly refined cab puts the operator first, ensuring a quieter, more comfortable work environment and easier operation.



Comfort

Climate control outlets behind the seat **NEW**



Five air outlets deliver warm or cool air directly to the operator.

A light touch on the lever means smoother, **NEW** less tiring work



It takes 25% less effort to move the operation lever, which reduces fatigue over long working hours or continuous operations.

More comfortable seat means higher productivity



Suspension seat absorbs vibration



Seat back can be lowered flat



Double slides allow adjustment for optimum comfort

Quiet Inside



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

Interior equipment adds to comfort and convenience



AM/FM stereo radio



USB connector/12V power outlet

Large door allows easy access in and out of the cab

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



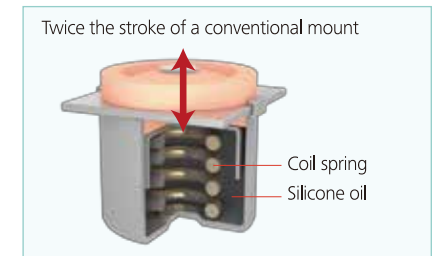
Spacious storage tray



Large cup holder

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 vibration protection.



Wide, Open 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.

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 for any possible on going or intermittent service issues

Examples of displaying maintenance information

Easy, on-the-spot maintenance NEW

Ample space in the engine compartment allows service staff to comfortably perform maintenance in a natural body position. The distance between access steps is smaller so getting to and from the engine compartment is easier. The hood is lighter and easier to raise and lower.



Generous space for maintenance work



DEF fill
Storage box

Step/storage box/DEF fill location



DEF fill

DEF/AdBlue tank

The DEF fill is located inside the convenient storage compartment.

Ground-level Access

Design allows for easy access at ground level for daily checks and maintenance work.



Double-element air cleaner



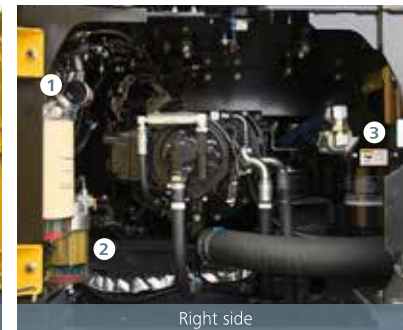
Fuel filter/Fuel filter with integrated water separator



Engine oil filter



Left side (radiator and cooling system)



Right side

Laid out for easy access to radiator and cooling system elements

- 1 Fuel filter
- 2 Fuel filter with integrated water separator
- 3 Engine oil filter

Easy Access to In-cab Maintenance Features



Easy-access fuse box.



DPF Manual Regeneration Switch



Air conditioner filter can be easily removed without tools for cleaning. One for outside air and one for inside air.

Easy Cleaning



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



Fuel tank drain valve.



Detachable two-piece floor mat with handles for easy removal.

Total Support for Machines with Network Speed and Accuracy

KOMEXS 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 (NGB).



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.

Engine

Model	HINO J05EUM-KSSC
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler(Complies with EU (NRMM) Stage IV, EPA Tier IV Final.
No. of cylinders	4
Bore and stroke	4.41" (112 mm) x 5.12" (130 mm)
Displacement	312.6 cu. in (5.123L)
Rated power output	160hp {119kW} /2,000rpm (SAE NET) 166hp {124kW} /2,000rpm (Without fan)
Max. torque	472lb-ft (640N.m) /1,600rpm (SAE NET) 487lb-ft (660N.m) /1,600rpm (Without fan)

Hydraulic System

Pump	
Type	Two variable displacement pumps + 1 gear pump
Max. discharge flow	2 x 58.1 U.S.gph {2 x 220 L/min}, 1 x 5.3 U.S.gph {1 x 20 L/min}
Relief valve setting	
Boom, arm and bucket	4,970 psi {34.3 Mpa}
Power Boost	5,480 psi {37.8 Mpa}
Travel circuit	4,970 psi {34.3 Mpa}
Swing circuit	4,210 psi {29.0 Mpa}
Control circuit	725 psi {5.0 Mpa}
Pilot control pump	Gear type
Main control valves	8-spool
Oil cooler	Air cooled type

Swing System

Swing motor	Axial piston motor
Parking brake	Oil disc brake, hydraulic operated automatically
Swing speed	12.7 rpm
Swing torque	52,700 lb.ft (71.5 kN.m) (SAE)
Tail swing radius	9'7" {2,910 mm}
Min. front swing radius	11'8" {3,550 mm}

Travel System

Travel motors	2 x axial piston, two-speed motors
Parking brakes	Oil disc brake per motor
Travel shoes	49 each side
Travel speed	3.7 / 2.2 mph {6.0 / 3.6 km/h}
Drawbar pulling force	51,500 lbs {229 kN} (SAE J 1309)
Gradeability	70 % {35°}
Ground clearance	1'6" (450 mm)

Bucket Selection Chart

Bucket type	Capacity (SAE) Cubic Yard (m³)	Width Inches (m)	Bucket Weight lb (kg)	Arm ft-in (m)	
				9'8" (2.94)	11'6" (3.5)
General	.91 (.695)	30" (.762)	1,325 (601)	H	H
	1.14 (.871)	36" (.914)	1,450 (658)	H	M
	1.37 (1.047)	42" (1.066)	1,651 (749)	M	L
	1.6 (1.223)	48" (1.219)	1,780 (807)	L	X
	1.8 (1.38)	54" (1.371)	2,019 (916)	L	X
Heavy Duty	.68 (.519)	24" (.609)	1,250 (567)	H	H
	.91 (.695)	30" (.762)	1,420 (644)	H	M
	1.14 (.871)	36" (.914)	1,560 (708)	M	L
	1.37 (1.04)	42" (1.066)	1,730 (785)	L	X
	1.6 (1.233)	48" (1.219)	1,905 (864)	X	X
Severe Duty	.63 (.481)	26" (.66)	1,455 (660)	H	H
	.75 (.573)	31" (.787)	1,590 (721)	H	H
	.88 (.672)	37" (.939)	1,790 (812)	M	M
	1.13 (.871)	43" (1.092)	2,000 (907)	L	X

H - Used with material weight up to 3,000 lbs/cu yd (1,780 kg/m³) M - Used with material weight up to 2,500 lbs/cu yd (1,483 kg/m³)
L - Used with material weight up to 2,000 lbs/cu yd (1,186 kg/m³) X - Not recommended

Cab & Control

Cab
All-weather, sound-suppressed steel cab mounted on the silicon-sealed suspension mounts 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 cylinder	4.7" {120 mm} x 4'5" {1,355 mm}
Arm cylinder	5.3" {135 mm} x 5'1" {1,558 mm}
Bucket cylinder	4.7" {120 mm} x 3'7" {1,080 mm}

Refilling Capacities & Lubrications

Fuel tank	84.5 U.S.gal {320L}
Cooling system	5.0 U.S.gal {19L}
Engine oil	5.4 U.S.gal {20.5L}
Travel reduction gear	2 x 1.4 U.S.gal {2 x 5.3 L}
Swing reduction gear	0.7 U.S.gal {2.7 L}
Hydraulic oil tank	37.0 U.S.gal {140 L} tank oil level 64.5 U.S.gal {244 L} hydraulic system
DEF/AdBlue tank	21.9U.S.gal {83L}

Digging Force

Arm length	Standard 9'8" {2.94 m}		Long 11'6" {3.5 m}	
	SAE	ISO	SAE	ISO
Bucket digging force	29,330 {130}	32,190 {143}*	29,330 {130}	32,190 {143}*
	32,100 {143}	35,300 {157}*	32,100 {143}	35,300 {157}*
Arm crowding force	22,200 {98.8}	24,500 {109}*	20,100 {89.6}	22,100 {98.5}*
	22,900 {102}	25,200 {112}*	20,600 {91.8}	22,700 {101}*

*Power Boost engaged.

Working Ranges

Range	Arm	18'6" {5.65 m}	
		Standard 9'8" {2.94 m}	Long 11'6" {3.5 m}
a- Max. digging reach		32'6" {9.90}	33'11" {10.34}
b- Max. digging reach at ground level		31'11" {9.73}	33'4" {10.17}
c- Max. digging depth		22'0" {6.70}	23'10" {7.26}
d- Max. digging height		31'11" {9.72}	32'10" {9.75}
e- Max. dumping clearance		22'8" {6.91}	22'10" {6.97}
f - Min. dumping clearance		8'0" {2.43}	6'2" {1.87}
g- Max. vertical wall digging depth		20'0" {6.10}	21'3" {6.47}
h- Min. swing radius		11'8" {3.55}	11'5" {3.48}
i - Horizontal digging stroke at ground level		17'3" {5.27}	19'11" {6.08}
j - Digging depth for 8 feet flat bottom		21'5" {6.52}	23'3" {7.08}
Bucket capacity SAE heaped cu.yd.{m³}		1.05 {0.8}	0.92 {0.70}

Dimensions

Arm length	Standard 9'8" {2.94 m}	Long 11'6" {3.5 m}
A Overall length	31'6" {9,600}	31'9" {9,670}
B Overall height (to top of boom)	9'9" {2,980}	10'5" {3,170}
C Overall width	10'5" {3,180}**	
D Overall height (to top of cab)	10'0" {3,060}	
E Ground clearance of rear end*	3'6" {1,060}	
F Ground clearance*	1'6" {450}	
G Tail swing radius	9'7" {2,910}	
G' Distance from center of swing to rear end	9'6" {2,900}	
H Tumbler distance	12'0" {3,660}	
I Overall length of crawler	14'7" {4,450}	
J Track gauge	7'10" {2,390}	
K Shoe Width. In(mm)	24" (600)/28"(700)/31.5"(790) /35"(900)	
L Overall width of upperstructure	9'4" {2,850}	

* Without including height of shoe lug
** Shoe width : 2'7" {800mm}

Operating Weight & Ground Pressure

In standard trim, with standard boom, 9'8" {2.94m} arm, and 1.05 cu.yd. {0.8 m³} SAE heaped bucket

Shaped	Triple grouser shoes (even height)				
	In(mm)	24" (600)	28"(700)	31.5"(790)	35"(900)
Shoe width	In(mm)	24" (600)	28"(700)	31.5"(790)	35"(900)
Ground pressure	psi {kPa}	6.5 {45}	5.7 {39}	5.1 {35}	4.5 {31}
Operating weight	lbs {kg}	47,900 {21,700}	48,900 {22,200}	49,400 {22,400}	50,100 {22,700}

STANDARD EQUIPMENT

- ENGINE**
- Tier IV Final Diesel engine
 - Automatic engine deceleration
 - Two 12V, 96Ah batteries
 - 24V, 5kW starting motor
 - 60-amp alternator
 - Removable radiator clean-out screen
 - Automatic engine shut-down if low engine oil pressure
 - Side by side oil, hydraulic and engine radiators
 - Double-element air cleaner

- CONTROL**
- Working mode selector (H-mode, S-mode and ECO-mode)
 - Heavy Lift and Power Boost "without time limit"

- SWING SYSTEM & TRAVEL SYSTEM**
- Swing rebound prevention system
 - Independent travel system
 - Two-speed travel with automatic down shift
 - Sealed & lubricated track links
 - 31"5" {800mm} track shoes
 - Grease-type track adjusters
 - Automatic swing brake

- Lower track guards

- HYDRAULIC**
- Exclusive boom to arm regeneration systems
 - Auto warm-up system
 - Hydraulic oil cooler

- MIRRORS & LIGHTS**
- Three rearview mirrors plus rear-view camera
 - Two front working lights
 - Swing flashers

- CAB & CONTROL**
- ROPS cab
 - Two pilot-operated control levers
 - Electric horn
 - Integrated left-right slide-type control box
 - All-weather, sound-insulated cab
 - Interior cab light
 - Coat hook
 - Luggage tray
 - Large cup holder
 - Detachable two-piece floor mat
 - 7-way adjustable suspension seat
 - Headrest

- Handrails
- Heater and defroster
- Intermittent windshield wiper with double-spray washer
- Skylight
- Top guard
- Tinted safety glass
- Pull-type front window and removable lower front window
- Easy to read multi-display monitor
- Automatic climate control
- Emergency escape hammer
- AM/FM stereo radio
- Travel alarm
- Attachment pressure release switch
- Manual DPF switch
- 12V converter
- Two-way control pattern changer

OPTIONAL EQUIPMENT

- Wide range of shoes
- Boom & arm load (lock) holding valve
- Front-guard protective structures
- Additional hydraulic circuits

