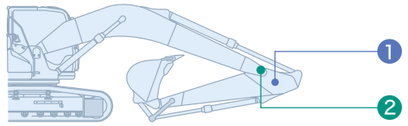
Built to operate in tough working environments

Increase in productivity means "Power"

The attachment has been reinforced to handle a higher work volume, with greater power and excellent durability that can withstand demanding work conditions.



1 Extra-thick plate construction *NEW*

Instead of reinforcement, one thick plate is used.

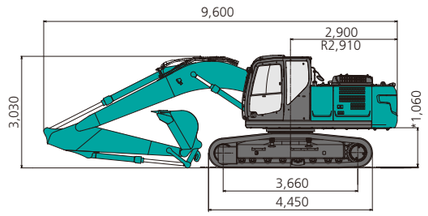
2 Flanged foot boss *NEW*

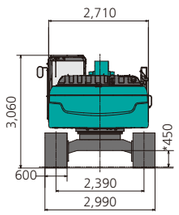
The single-piece, cast steel foot boss has a flange that distributes maximum stress to improve durability.

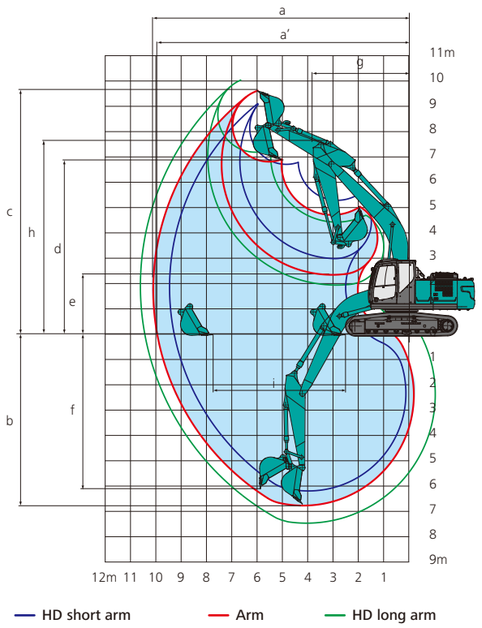
DIMENSIONS

Arm length (2.94 m), with a 0.80 m³ bucket. * Not including shoe lug.

Unit: mm







SPECIFICATIONS

Model			SK210HLC
Type			SK210HLC-10
PERFORMANCE			
Bucket capacity ISO heaped		m^3	0.8
Swing speed		min^{-1} {rpm}	12.7 {12.7}
Travel speed		km/h	6.0/3.6
Gradeability		% {deg}	70 {35}
Bucket digging force		kN {kgf}	143 {14,600}{157 {16,000}*)
Arm crowding force		kN {kgf}	102 {10,400}{112 {11,400}*)
WEIGHT			
Operating weight		kg	22,100
Ground pressure		kPa {kgf/cm^2}	49 {0.50}
Shoe width		mm	600
ENGINE			
Model			J05EUM-KSSK
Type			Direct injection, water-cooled,4-cylynder diesel engine with turbocharger, intercooler
Rated power output		kW/min^{-1}	124/2,000(ISO14396),119/2,000(ISO9249)
Fuel tank capacity		L	320
HYBRID SYSTEM UNIT			
Main power supply	Type		Lithium-ion battery
	Voltage	V	567
Generator motor	Type		Three-phase AC synchronous permanent magnet type
	Rated Power Output	kW/min^{-1}	25/1,880
Swing motor	Type		Three-phase AC synchronous permanent magnet type
	Rated Power Output	kW/min^{-1}	26/3,600
HYDRAULIC SYSTEM			
Pump			Two variable displacement piston pumps + one gear pump
Relief valve setting		MPa	34.3 (37.8*)
Travel motors			2 × axial piston
Hydraulic oil tank		L	140: tank level (244: system)

Units meet SI standards * Power Boss engaged.

WORKING RANGES

Unit: mm

Model	SK210HLC		
Arm types	HD short arm (2.40m)	Arm (2.94m)	HD long arm (3.50m)
a - Max. digging radius	9,420	9,900	10,340
a' - Max. digging reach at ground level	9,240	9,730	10,170
b - Max. digging depth*	6,160	6,700	7,260
c - Max. digging height*	9,510	9,720	9,750
d - Max. dumping height*	6,680	6,910	6,970
e - Min. dumping height*	2,980	2,430	1,870
f - Max. vertical wall digging depth*	5,570	6,100	6,470
g - Min. swing radius	3,560	3,550	3,480
h - Digging depth for 2.4 m (8') flat bottom*	7,750	7,680	7,720
i - Horizontal digging stroke at ground level	4,080	5,270	6,080

* Not including shoe lug.

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.

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Inquiries To:

Bulletin No.SK210HLC-EU-000-0000000

KOBELCO

SK210HLC

- **Bucket Capacity :** 0.80 m³
- **Engine Power :** 124 kW / 2,000 min^{-1}
- **Operating Weight :** 22,100 kg - 23,100 kg

HYBRID

GENERATION 10

We Save You Fuel
Achieving a Low-Carbon Society

Power Meets Efficiency

In 2006, KOBELCO developed the world's first hybrid machine full hydraulic excavator in the history of hydraulic excavators.
The forerunner of the hybrid machine full hydraulic excavators was the SK80H. Then, its 20-ton class successor,
the SK200H-9, achieved overwhelmingly great fuel efficiency, creating a strong image of "fuel-efficient KOBELCO excavators".
The SK210HLC-10, the latest model, is equipped with not only the hybrid technology developed and
nurtured by KOBELCO but also a large-capacity lithium-ion battery for the first time in the industry.
The technology of KOBELCO which knows hybrid machines well has enabled a compact but high-power assist,
evolving its hybrid machines into "genuine hybrid machines" in terms of fuel efficiency and productivity.
Furthermore, the SK210HLC-10 is equipped with newly designed extra durable devices and
preventive maintenance functions to maintain its value.
To the new stage. The hybrid machines of KOBELCO greatly exceed the hybrid standards that KOBELCO has established.

Higher fuel efficiency means "Efficiency"

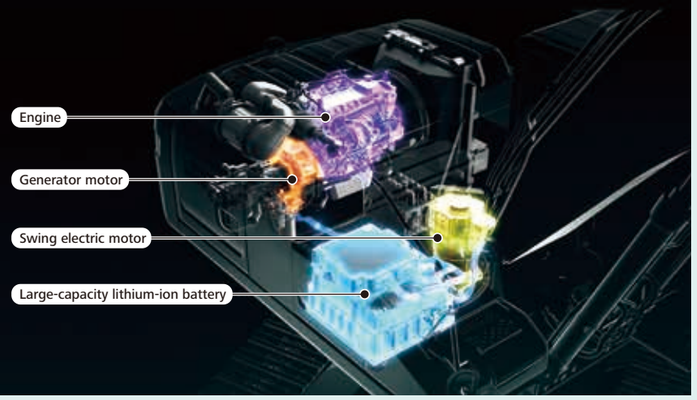
Into the era of "genuine hybrid machines". New hybrid system.

The generator motor assists the engine by adding up to 25 kW (equivalent to the power output of the engine of a 5-ton class excavator).

Equipped with the large-capacity lithium-ion battery which assists the engine.

New Hybrid System NEW

KOBELCO's original hybrid system has further evolved. The newly adopted swing electric motor provides operability unique to a hybrid machine. Furthermore, the large generator motor driven by the large-capacity lithium-ion battery constantly assists the engine, greatly reducing the engine load. The new hybrid system effectively supports fuel efficiency and power for swinging, digging, and traveling, thus realizing a workload which far exceeds that of conventional machines.

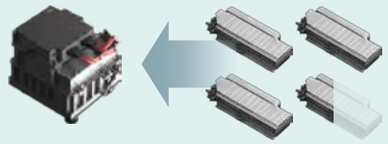


Adoption of a lithium-ion battery for the first time in the industry

The adoption of the large-capacity lithium-ion battery reduces the size and provides mass energy storage at the same time. The battery continuously assists the hybrid machine.

Generated power 3.3 times higher

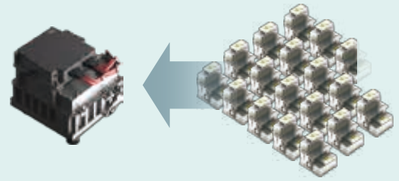
(compared to the power generated by the nickel-metal hydride batteries used in the SK80H-2)



Lithium-ion battery (SK210HLC-10) — Nickel-metal hydride battery (SK80H-2)

Runtime 17.6 times longer

(compared to that of the capacitors used in the SK200H-9)



Lithium-ion battery (SK210HLC-10) — Capacitors (SK200H-9)

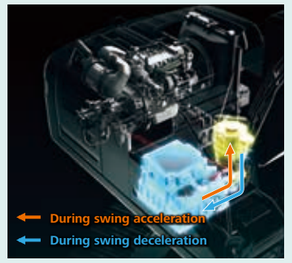
Independent swing electric system enable good operability for combined operation of swing and attachment.

During swing acceleration

The swing motor is only powered by electricity accumulated in the lithium-ion battery.

During swing deceleration

The braking energy generated during swing deceleration is converted into electricity, and then the electricity is accumulated in the lithium-ion battery.

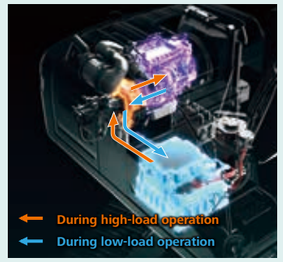


While the machine is digging or traveling, an assist from the generator motor greatly reduces the engine load.

During high-load operation

Assisting the engine by adding up to 25 kW

The power of the generator motor has increased to 25 kW (equivalent to the power output of the engine of a 5-ton class excavator). The electricity accumulated in the lithium-ion battery allows the generator motor to assist the engine. Thus, fuel consumption is reduced.



During low-load operation

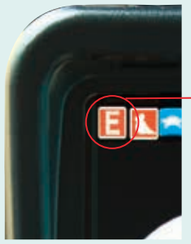
The engine power is used to generate electricity in the generator motor. And then, the electricity is accumulated in the lithium-ion battery. Digging and traveling are done hydraulically.

Improved fuel efficiency contributes to high performance

Fuel Efficiency

H-mode, S-mode and ECO-mode are fuel efficiency modes in which fuel consumption is reduced in comparison with the previous model.

■ Comparison with the conventional standard machine (SK210LC-9)



H mode····· About 13.9% improvement

S mode····· About 16.7% improvement

E ECO-mode···About 12.1% improvement

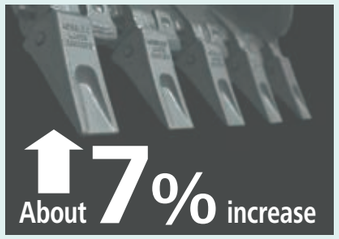
* The percentages are approximate improvement rates.

Superior Digging Volume

This excavator offers dynamic digging force even as it minimizes fuel consumption rates, achieving class-leading work volume. H-mode with an increased torque setting delivers about 7% greater digging volume.

■ Digging volume/hour

(Compared to H-mode on SK210LC-9)



■ Max. Bucket Digging Force

Normal: 143kN

With power boost: 157kN

■ Max. Arm Crowding Force

Normal: 102kN

With power boost: 112kN

*Values are for HD arm (2.94m)