

KOBELCO

SK220XD SK220XD_{LC}



Power meets Efficiency



- **Bucket Capacity :**
0.93 - 1.2m³ (ISO heaped)
- **Engine Power :**
158HP (118kW)/2,000min⁻¹
(ISO 14396)
- **Operating Weight :**
21,800 - 22,800 kg

HIGHER FUEL SAVING
THAN BEFORE

Save Further
UPTO (-) 19%
Fuel

IMPROVED RELIABILITY

XD - Extreme Duty
Structures &
Components

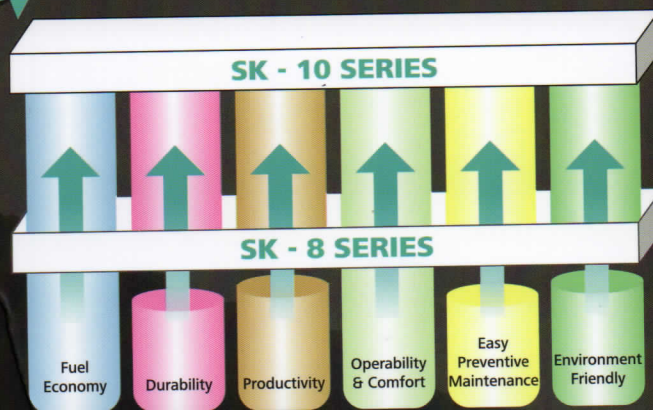
HIGHER PERFORMANCE

Highest Forces &
Speed for Highest
Productivity

GREATER COMFORT

- 38% Less Operator Effort
- International Level Cabin

In line with KOBELCO's concept of mining-friendly construction machinery that will work long and hard on any site, the rugged machine body of SK220XD is newly designed, and the comprehensive reinforcements make 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 SK220XD/SK220XDLC meets the needs of the most punishing mining sites with a performance that simply astounds.



FUEL EFFICIENCY - BREAKING OUR OWN RECORDS

Operation Mode **NEW**

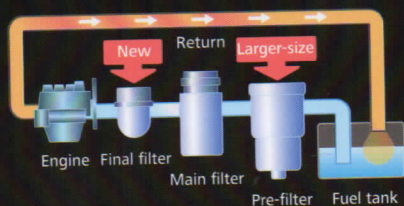
- H mode**
Production is the Main focus
Fuel consumption is **reduced by 16%** at the same work volume as a SK-8 machine
- S mode**
Production & fuel economy both, are needed
Fuel consumption is **reduced by 14%** at the same work volume as a SK-8 machine
- ECO mode** **NEW**
Fuel economy is the focus, in normal operations
Fuel consumption is **reduced by 19%** at the same work volume as a SK-8 machine (S mode)

Functions Which Support Reduction in Fuel Consumption

1. Boom Valve regeneration
2. Boom down regeneration
3. Arm out quick return
4. Swing speed feedback, so that no hydraulic oil escapes through the relief valve
5. Variable power control
6. Minimum pump tilt angle down
7. Cutting supply during the swing reverse lever in operations
8. Optimized fan design reduces power loss

RELIABILITY - MORE SAVING

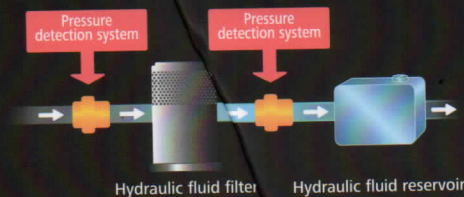
Pre-filter is provided for main (fuel) filter protection **NEW**



Fuel Filter

The **Pre-filter** with built-in water separator has 1.6 times more filter area compared to the previous models and with a new final stage maintenance free fuel filter to maximize filtering performance.

Hydraulic Filter Sensor **NEW**

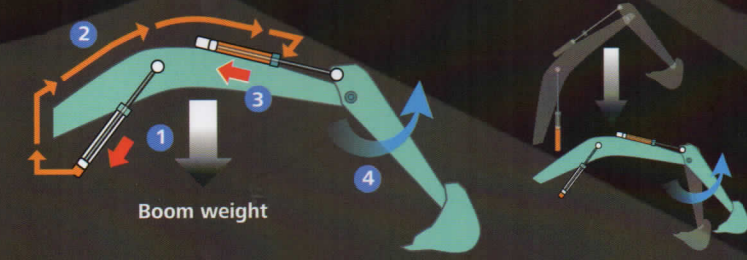


Hydraulic Fluid Filter Clog Detector

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.

PRODUCTIVITY - MORE POWER

Regeneration System NEW



- 1 The Boom weight puts force on the boom cylinder
- 2 Hydraulic fluid pushed from the Boom cylinder goes to the arm cylinder
- 3 Arm cylinder contracts
- 4 Arm opens

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

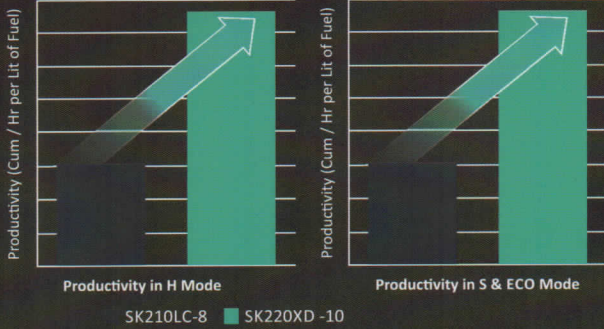
Productivity

19% UP

18% UP

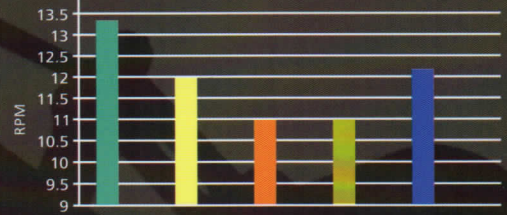
Productivity, which was already a strong point for Kobelco, now further increases by up to 19%

Combination of Speeds, Forces & Flow to give maximum results & earnings to users

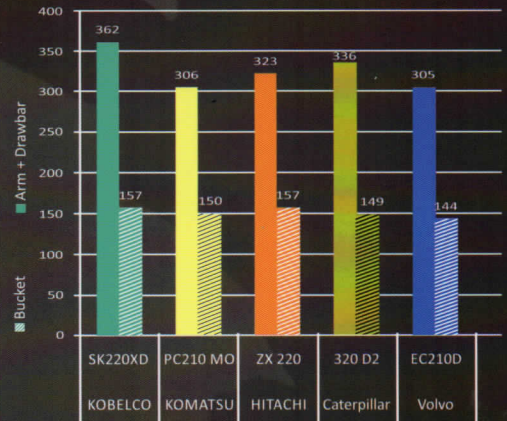


Productivity is measured in CuM of Output per hour per litre of Fuel

Swing Speed



Forces



Kobelco has Highest effective Forces, Pump Flow & Speeds

*Data as reported from OEM sales catalogues

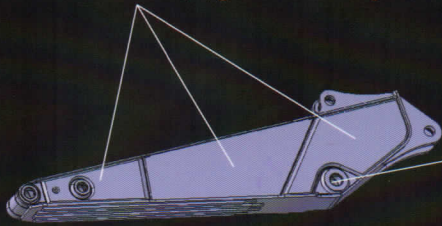
Larger HD & Standard Buckets for Increased productivity



DURABILITY - STRONGER STRUCTURE

The Boom & Arm, and the frames are now much stronger (XD type) for Extreme Duty NEW

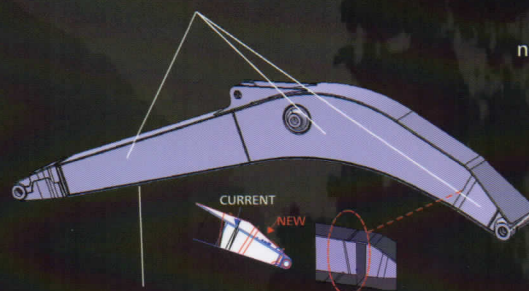
Thicker Plates than (-8) gives more strength



Arm Foot boss has 2.6 times more strength



Thicker Plates than (-8) for more durability



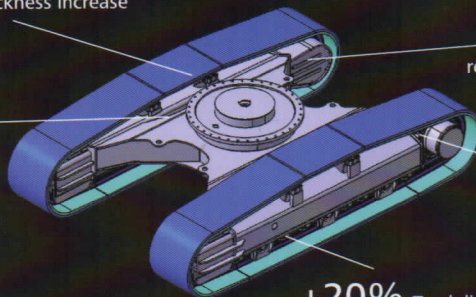
Boom Foot design now gives 2.5 times more durability



Boom section is wider than (-8) to increase strength

+20% Shoe plate thickness increase

+43% Increased thickness of bottom plate & thick under cover in the lower frame added



+33% Motor cover reinforced & increased thickness

Sprocket - higher width & increased hardness depth

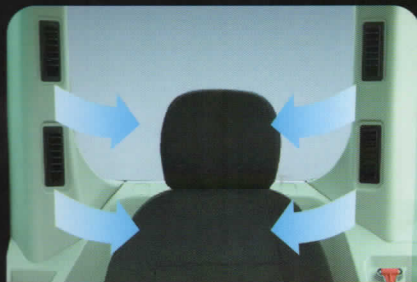
+20% Track link height increased

Easy, On-the-Spot Maintenance

- Ample space in the engine compartment
- Lower distance between steps for easier entry & exit
- Lighter, easier to raise & lower Hood

EASY OPERABILITY & COMFORT

Air Conditioner Louvers behind the Seat NEW



The large air-conditioning system has cooling from all directions including the back pillars & to the right & left of the operator's seat. Combination of high cooling, Seat design & Air compression upto 97 pa, makes it the most comfortable & dust-free operating environment.

Larger & Dustfree Cab NEW



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

A Lighter Touch Lever NEW



It takes 38% less effort to work the operation levers, which reduces fatigue over long working hours or continued operations.

Multi-Functional Display in Color NEW



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 inbuilt diagnostic features.

SPECIFICATIONS

Engine

Model	JO5ETA
Type	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler (Tier3-compliant engine)
No. of cylinders	4
Bore and stroke	112 mm x 130 mm
Displacement	5.123 L
Rated power output	158HP (118kW)/2,000min ⁻¹ (ISO14396)
Max. torque	592 Nm/1,600 min ⁻¹ (ISO 14396)

Hydraulic System

Pump	
Type	Two variable displacement pumps + one gear pump
Max. discharge flow	2 x 220 L/min, 1 x 20 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa (350 kgf/cm ²)
Power Boost	37.8 MPa (385 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	29.0 MPa (296 kgf/cm ²)
Control circuit	5.0 MPa (50 kgf/cm ²)
Pilot control pump	Gear type
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	Oil disc brake, hydraulic operated automatically
Swing speed	13.3 min ⁻¹ (rpm)
Tail swing radius	2,910 mm
Min. front swing radius	3,560 mm

Travel System

Travel motors	2 x axial-piston, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	SK220XDLC 49 each side SK220XD 46 each side
Travel speed	6.0/3.6 km/h
Drawbar pulling force	SK220XDLC 227 kN (ISO 7464) SK220XD 228 kN (ISO 7464)
Gradeability	70 % {35°}

Cab & Control

Cab
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

Refilling Capacities & Lubrications

Fuel tank	320 L
Cooling system	18 L
Engine oil	20.5 L
Travel reduction gear	2 x 5 L
Swing reduction gear	3 L
Hydraulic oil tank	140 L tank oil level 244 L hydraulic system

Optional Equipment

- Travel Alarm • 800mm Track shoes • Piping for Breaker attachment
- Front & top Cabin Guards • Fuel filling pump • Long Arm - 2.9 m
- Choice of Buckets

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 notice. Copyright by Kobelco Construction Machinery Co. Ltd. No part of this catalog may be reproduced in any manner without permission.

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